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RESULTS OF THE ORBITER WING AND ELEVON LOAD ALLEVIATION TEST IN THE NASA/MSFC 14-INCH TRISONIC WIND TUNNEL ON A 0.004-SCALE MODEL (74-OTS) SPACE SHUTTLE INTEGRATED VEHICLE (FA301)

SPACE SHUTTLE AEROTHERMODYNAMIC DATA REPORT

Data Management SERVICES

HUNTSVILLE ELECTRONICS DIVISION CHRYSLER CORPORATION

July 1984

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Prepared under NASA Contract Number NAS9-16283

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Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:	MSFC 14TWT 692
NASA Series Number:	FA301
Model Number:	74-OTS
Test Dates:	November 21 through December 8, 1983
Occupancy Hours:	104

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ABSTRACT

The 0.004-scale 74-OTS model was tested in the NASA/MSFC 14-Inch Trisonic Wind Tunnel, test number 692, as part of an effort to investigate the possibilities of reducing Orbiter wing and elevon loading during the Space Shuttle Launch Vehicle (SSLV) ascent phase. The existing SSLV configuration was modified using several Orbiter/ET fairing components and was tested with and without solid plumes over a Mach number range of 0.6 to 1.46. These data are to be used in support of the Orbiter wing and elevon loading alleviation study. This report documents the test particulars and plotted/tabulated data results.

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SCHEDULE	COEFFICIENTS PLOTTED	SCHEDULE	COEFFICIENTS PLOTTED
A	C_{m_f} VS α	B	C_{A_f} VS Mach
	C_{N_f} VS α		ΔC_{N_f} VS Mach
	C_{A_f} VS α		ΔC_{m_f} VS Mach
	C_l (BODY) VS α		$\Delta C_{h_{e_I}}$ VS Mach
	C_{n_f} (BODY) VS α		$\Delta C_{h_{e_O}}$ VS Mach
	C_Y VS α		ΔC_{N_w} VS Mach
	C_{T_w} VS α		ΔC_{B_w} VS Mach
	C_{B_w} VS α		ΔC_{T_w} VS Mach
	C_{N_w} VS α		
	$C_{h_{e_O}}$ VS α		
	$C_{h_{e_I}}$ VS α		

NOMENCLATURE

Symbol	Mnemonic	Definition
$A_{b_{ET}}$	AET	External tank total base area, in.^{2}
A_{BF}	ABF	Body flap planform area, in.^{2}
$A_{b_{ORB}}$	AO	Total orbiter base area, in.^{2}
$A_{b_{SRB}}$	AS	Total SRB base area, in.^{2} (1-SRB)
b_{REF}	LREFB	Reference span (wing bending moment), in.
$\bar{c}$	LREFT	Mean aerodynamic chord, in.
$\bar{c}_e$	LREFE	Elevon reference length, in.
$C_{A_{b_{ET}}}$	CABET	External tank base axial force coefficient based on $A_{b_{ET}}$
$C_{A_{b_{LS}}}$	CABLS	Left SRB base axial force coefficient
$C_{A_{b_{ORB}}}$	CABO	Orbiter base axial force coefficient based on $A_{b_{ORB}}$
$C_{A_{b_{RS}}}$	CABRS	Right SRB base axial force coefficient
C_{A_f}	CAF	SSLV forebody axial force coefficient
C_{A_T}	CAT	SSLV total axial force coefficient
C_{B_w}	CBW	Wing root bending moment coefficient
$C_{h_{e_i}}$	CHEI	Inboard elevon hinge moment coefficient
$C_{h_{e_o}}$	CHEO	Outboard elevon hinge moment coefficient
C_ℓ	CBL	SSLV rolling moment coefficient
C_{ℓ_f}	CBLF	SSLV forebody rolling moment coefficient
C_m	CLM	SSLV pitching moment coefficient
$C_{m_{BF}}$	CLMBFO	Body flap pitching moment coefficient
$C_{m_{b_{ORB}}}$	CLMBO	Orbiter base pitching moment coefficient

NOMENCLATURE (Continued)

Symbol	Mnemonic	Definition
C_{m_f}	CLMF	SSLV forebody pitching moment coefficient
C_N	CN	SSLV normal force coefficient
$C_{N_{BF}}$	CNBFO	Body flap normal force coefficient
C_{N_f}	CNF	SSLV forebody normal force coefficient
$C_{N_{b_{ORB}}}$	CNBO	Orbiter base normal force coefficient
C_{N_W}	CNW	Wing normal force coefficient
$C_{P_{B(i)}}$	CPB(i)	SSLV base pressure coefficient, tap i
C_{T_W}	CTW	Wing torsion moment coefficient
C_Y	CY	SSLV side force coefficient
C_{Y_f}	CYF	SSLV forebody side force coefficient
C_n	CYN	SSLV yawing moment coefficient
$C_{n_{b_{LS}}}$	CYNBLS	Left SRB base yawing moment coefficient
$C_{n_{b_{RS}}}$	CYNBRS	Right SRB base yawing moment coefficient
C_{n_f}	CYNF	SSLV forebody yawing moment coefficient
ET		External tank
F_A		SSLV axial force, lbs.
F_N		SSLV normal force, lbs.
F_{N_W}	NW	Wing normal force, lbs.
F_Y		SSLV side force, lbs.
HM_{e_i}	HEI	Inboard elevon hinge moment, in.-lbs.

NOMENCLATURE (Continued)

Symbol	Mnemonic	Definition
HMe_o	HEO	Outboard elevon hinge moment, in.-lbs.
i_B		Effective orbiter base cant angle, deg.
L_{REF}	LREF	Reference length, in.
M		Mach number
M_{BW}	BW	Wing bending moment, in.-lb.
M_{TW}	TW	Wing torsion moment, in.-lb.
MRP (X_T, Y_T, Z_T)		Moment reference point in ET coordinate system
M_X		Rolling moment about the balance center, in.-lbs.
M_Y		Pitching moment about the balance center, in.-lbs.
M_Z		Yawing moment about the balance center, in.-lbs.
	PLUME	Solid Plume Simulation indicator, PLUME = 0.0 for Plume OFF and PLUME = 1.0 for Plume ON
P		Element (ORB) (ET) (SRB) base pressure, psia
P_S	PS	Tunnel freestream static pressure, psia
P_T	PØ	Tunnel freestream total pressure, psia
q	Q	Tunnel freestream dynamic pressure, psi
RN	RN/L	Tunnel Reynolds number per foot
S_{REF}	SREF	Reference area, in.^{2}
$S_{e_{REF}}$	SREFE	Elevon reference area, in.^{2}
SRB		Solid rocket booster
T_S	TS	Tunnel freestream static temperature, ^oF
T_T		Tunnel freestream total temperature, ^oF

NOMENCLATURE (Continued)

Symbol	Mnemonic	Definition
$\bar{X}_{b_{ORB}}$	X1	Distance from MRP to ORB base, in.
$\bar{X}_{BF_{ORB}}$	X2	Distance from MRP to centroid of body flap, in.
X_{CP}		Model center of pressure, in.
X_o		Orbiter longitudinal station, in.
X_T		ET longitudinal station, in.
X_{T_o}		Distance from orbiter balance center to MRP, in.
$\bar{Y}_{b_{SRB}}$	Y1	Distance from LSRB centerline to MRP, in.
Y_o		Orbiter spanwise station, in.
Y_T		ET spanwise station, in.
	Z	Parameter to note the vertical displacement (positive down) of the orbiter nose from its mated position with respect to the external tank, inches full scale
$\bar{Z}_{b_{ORB}}$	Z1	Distance from MRP to centroid of ORB base, in.
Z_o		Orbiter vertical station, in.
Z_T		ET vertical station, in.
Z_{T_o}		Vertical distance from orbiter balance center to MRP, in.

NOMENCLATURE (Concluded)

Symbol	Mnemonic	Definition
α	ALPHA	Angle of attack, degrees
β	BETA	Angle of sideslip, degrees
ϕ	PHI	Angle of roll, degrees
δ_{E_T}	ELV-IB ELVIB	Inboard elevon deflection angle, degrees
δ_{E_O}	ELV-OB ELVOB	Outboard elevon deflection angle, degrees

Incremental Coefficients

Symbol	Mnemonic	Definition
Δ(C)	D(C)	Incremental coefficient-fairing configuration minus baseline configuration where (C) is CNW,CBW,CTW,CHEI,CHEO,CAF,CNF,CLMF,CY,CYNF, and CBL (see Appendix datasets IA60$$ and JA60$$)

INTRODUCTION

As part of a study to identify an aerodynamic method for reducing wing and elevon loads during ascent flight, test MSFC 14-TWT 692 was conducted in November and December 1983. Configurations tested included various interstage fairings to alter the flow field on the lower wing surface and a wing fairing located on the upper wing surface.

These configurations included

- 10° Ramp Fairing
- Ogive Fairing
- Large Fairing
- Wing Fairing

The 10° ramp and Ogive fairings were tested in three longitudinal positions for the basic test Mach number array while the large fairing was tested in one location only. The wing fairing was tested in two longitudinal positions at Mach 1.25 only.

Data measurements included:

- 6-component total vehicle data
- 10 base pressure measurements
- Elevon hinge moments
- 3-component wing panel loads

The basic Mach number array tested included 0.6, 0.8, 0.9, .95, 1.05, 1.1, 1.15, 1.25 and 1.46. Model attitude was pitched from -10° to $+10^{\circ}$ at zero degrees yaw. Testing was conducted with and without solid plumes and at inboard/outboard elevon settings of $10^{\circ}/5^{\circ}$.

This report presents both plotted and tabulated test results. In addition to tunnel source data, vehicle forebody and incremental data are also presented.

CONFIGURATIONS INVESTIGATED

The model was a 0.004 scale replica of the Space Shuttle launch vehicle consisting of the orbiter (ORB), external tank (ET), and two solid rocket boosters (SRB's) as shown in figures 7 through 11 (baseline configuration). The vehicle is described by the Space Shuttle Interface Control Document Level II, ICD Number 2-00001, Revision E, dated July 11, 1975.

Orbiter Configuration

The orbiter body was fabricated to the OV101 and the orbiter wing to the OV102 Configuration Outer Mold Line Definition. The model is of a blended wing/body design with a double delta planform ($81^{\circ}/45^{\circ}$ leading edge) wing of 12 percent thickness and full-span elevons with gaps between the outboard and inboard panels and between the inboard panel and the fuselage. A single centerline vertical tail with rudder/speedbrake capability is mounted between the orbital maneuvering system (OMS) pods on the aft fuselage and a body flap is fitted to the lower trailing edge of the fuselage. Orbiter geometry is shown in figure 8.

The main propulsion system (MPS) nozzles were not simulated; however, the OMS nozzles and the OMS pods were simulated.

The elevon deflections were set manually by use of interchangeable elevon brackets on the nonmetric elevons and interchangeable instrumented elevons on the left wing. Only one elevon setting was utilized, $\delta_{E_I} = 10^{\circ}$ and $\delta_{E_O} = 5^{\circ}$.

External Tank Configuration

The external tank model was built in accordance with Rockwell International Interface Control Drawing ICD2-00001, Rev. E. Figure 9 shows the full

scale tank geometry.

The external tank is of cylindrical cross-section with a nominal diameter of 333 inches and a maximum diameter of 336.2 inches. The forward portion of the ET has a tangent ogive nose which terminates in a biconic nose cap over the LOX vent valve. Structural stiffeners between the two vessels result in an area with a slightly larger than nominal diameter which is simulated on the test model. The aft end of the tank is basically an ellipsoid of revolution.

The entire prototype external tank is covered with a spray-on foam insulation of varying thickness. Approximate thicknesses are 2.5 inches on the tangent ogive, 1.0 inch on the cylindrical sections, and 2.0 inches on the rear ellipsoid. Model dimensions include this insulation.

The external tank configuration includes a number of protuberances which consist of electrical trays, propellant feedlines, and attach hardware. Electrical trays which run parallel to the ET centerline are simulated; those which run up next to the aft ORB/ET attach hardware are not. The LOX and LH_2 feedlines are simulated. The attach hardware between the ORB/ET and ET/SRB's are also simulated.

Solid Rocket Booster Configuration

The SRB models were built to the same Interface Control Drawing (ICD2-00001, Rev. E) as the ET. Figure 10 shows the SRB geometry.

The two SRB's are 146-inch-diameter cylinders, each with an 18-degree semiangle nose terminated by a 13.27-inch-diameter sphere. An 18-degree

flared skirt, 208.20 inches in diameter at the trailing edge is simulated. The rocket nozzle and thermal shield are not simulated on the model.

SRB protuberances consist of a forward attach lug, front and rear separation motors, an aft attach ring, various stiffener rings, four holddown posts, and a full-length electrical systems tunnel. All these protuberances are simulated on the model.

Plume Simulation

The test configuration for solid plume simulation is shown in figures 12 through 15. The SRB solid plumes were located on the SRB stings. The SRB stings were positioned flush with each SRB base.

Plume configurations and locations that were used on this test were determined from test TWT 675 (Ref. 1) and were set up to produce the orbiter, SRB and ET base pressure coefficients observed in the Space Shuttle STS flights. This information is presented in Table VI.

Orbiter/ET Fairing Configurations

Several orbiter/ET fairing configurations were used during this test. These consisted of (1) a 10° ramp (figure 16) which was attached to the ET at three different positions, (2) an ogive fairing (figure 17) placed at the same three locations as the 10° ramp, (3) a large fairing configuration (figure 18) which was located at the rear orbiter/ET attach structure, and (4) a wing fairing (figure 19) which was attached at two different longitudinal positions on the wing upper surface.

These fairing configurations are separate removable pieces. The test procedure consisted of installing one of these configurations, running at several Mach numbers, then changing the configuration location or replacing it with another for the following runs.

Sting Configurations

Models were mounted upright in the tunnel with all components supported through the base of the orbiter using MSFC balance number 239 on sting RI 2001.

The SRB stings were present on all of the test runs; however, the stings were mounted flush with each SRB base and therefore contained no balance.

INSTRUMENTATION

Force and Moment Balances

The mated vehicle configuration consisted of the orbiter and the lower stack (ET/SRB's) which were attached to one another using the simulated forward and aft attach structures. This configuration was mounted, through the orbiter base, on the MSFC 239 balance with characteristics shown in Table II. The balance center was located at X_o(1145.75), Y_o (0), Z_o(400). The balance measured total model loads.

Neither the ET nor either of the two SRB's contained a balance.

Pressure Measurements

Model base pressure was measured for the purpose of adjusting the data to present forebody coefficients. Pressures were measured using external tubes placed next to the base of each element. The pressures themselves were sampled using transducers mounted external to the test section. Refer to figure 20 for details regarding specific locations on each configuration setup.

Elevon Hinge Moments

The left-hand elevons are instrumented to measure hinge moment directly via a beam which supports the individual control surface in torsion only. Thus, the output of the hinge moment strain gages is directly proportional to the applied (hinge) moment.

The rated and maximum loads for the control surface indicators are listed in Table III.

Wing Panel Loads

The right-hand wing was supported on a single-beam three-component balance which supports the panel in all degrees of freedom. Refer to figure 6 for layout of wing and balance.

The rated and maximum expected loads for the wing indicators are listed in Table IV.

TEST FACILITY DESCRIPTION

The Marshall Space Flight Center's 14-inch trisonic wind tunnel is an intermittent blowdown tunnel which operates by high pressure air flowing from storage to either vacuum or atmospheric conditions. A Mach number range from 0.2 to 5.85 is covered by utilizing two interchangeable test sections. The transonic section permits testing at Mach 0.20 through 2.50 and the supersonic section permits testing at Mach 2.74 through 5.85. Mach numbers between 0.2 and 0.9 are obtained by using a controllable diffuser. The range from 0.95 to 1.3 is achieved through the use of plenum suction and perforated walls. Mach numbers of 1.46, 1.96 and 2.50 are produced by interchangeable sets of fixed contour nozzle blocks. Above Mach 2.50 a set of fixed contour nozzle blocks are tilted and translated automatically to produce any desired Mach numbers in 0.25 increments.

Air is supplied to a 6000-cubic-foot storage tank at approximately -40°F dew point and 500 psi. The compressor is a three-stage reciprocating unit driven by a 1500 hp motor.

The tunnel flow is established and controlled with a servoactuated gate valve. The controlled air flows through the valve diffuser into the stilling chamber and heat exchanger where the air temperature can be controlled from ambient to approximately 180°F. The air then passes through the test section, which contains the nozzle blocks and test region.

Downstream of the test section is a hydraulically controlled pitch sector that provides a total angle-of-attack range of 20° ($\pm 10^{\circ}$). Sting offsets are available for obtaining various maximum angles of attack up to 90 degrees.

The diffuser section has movable floor and ceiling panels which are the primary means of controlling the subsonic Mach numbers and permit more efficient running supersonically. The sector assembly and supersonic diffuser telescope into the subsonic diffuser to allow easy access to the model and test section.

Tunnel flow is exhausted through an acoustically damped tower to atmosphere or into the vacuum field of 42,000 cubic feet. The vacuum tanks are evacuated by vacuum pumps driven by a total of 900 hp.

On-line data reduced to coefficient form is produced by a solid-state data acquisition and computing system. Hard copies of tabulated data and preliminary plots are provided a few minutes after each run. The data are transferred to punched cards after each run for use as input to computer systems for any required further data manipulation. More detailed information on the 14-inch TWT is contained in reference 2.

DATA REDUCTION

Standard MSFC TWT methods for computing tunnel parameters, balance force and moments, and model attitudes were used. Six-component force and moment coefficients (body axis only) were computed for the balance. The axis system is defined in figure 1. The reference point (the same for all elements) is specified in figure 4. Elevon hinge moments and wing forces and moments are presented in coefficient form about the reference locations specified in figures 2, 3 and 6.

The moment reference locations for each element, components, and total vehicle are defined below, in full-scale dimensions.

Total vehicle	:	X_T976, Y_T0, Z_T400	Full Scale
		3.904 0, 1.60	Model Scale
Orbiter	:	X_T976, Y_T0, Z_T400	Full Scale
		3.904 0, 1.60	Model Scale
Right Wing	:	X_o1307, Y_o105	Full Scale
		5.228 0.420	Model Scale
Left Elevons	:	Hingeline at X_o1387	Full Scale
		5.548	Model Scale

The attitude of the element which contains the balance (i.e., orbiter) was calculated from the sector reading, taking into account the sting and balance deflections, and initial sting misalignment (α', β').

$$\text{ALPHA} = \alpha_{sector} + \Delta\alpha_{sting} + \Delta\alpha_{balance} + \alpha'$$

$$\text{BETA} = \beta_{sector} + \Delta\beta_{sting} + \Delta\beta_{balance} + \beta'$$

(Note: $\beta' = 0$)

α_{sector} and β_{sector} are determined from tunnel readouts.

$\Delta\alpha_{sting}$, $\Delta\alpha_{balance}$, $\Delta\beta_{sting}$, and $\Delta\beta_{balance}$ are based on pretest sting and balance calibrations.

α' is measured using an inclinometer on the model.

Reference Dimensions and Constants

Symbol	Full Scale	Model Scale	Definition
$A_{b_{ET}}$	597.6 ft.^{2}	1.377 in.^{2}	ET base area
A_{BF}	142.6 ft.^{2}	0.329 in.^{2}	Body flap area
$A_{b_{ORB}}$	436.7 ft.^{2}	1.006 in.^{2}	Orbiter projected base area (Z-Y plane)
$A_{b_{SRB}}$ (One SRB)	236.4 ft.^{2}	0.544 in.^{2}	SRB base area
L_{REF}	1290.3 in.	5.160 in.	Reference length
MRP	X_T 976 in.	3.904 in.	Moment reference point
	Y_T 0 in.	0 in.	
	Z_T 400 in.	1.600 in.	
S_{REF}	2690.0 ft.^{2}	6.198 in.^{2}	Reference area
$\bar{X}_{b_{ORB}}$	-1263.0 in.	-5.052 in.	Distance from orbiter base normal force to MRP
$\bar{X}_{BF_{ORB}}$	-1329.7 in.	-5.319 in.	Distance from body flap normal force to MRP
X_{T_O}	-910.75 in.	-3.643 in.	Distance from orbiter balance center to MRP
$\bar{Y}_{b_{SRB}}$	250.5 in.	1.002 in.	Distance from LSRB centerline to MRP
$\bar{Z}_{b_{ORB}}$	-326.5 in.	-1.306 in.	Distance from orbiter base axial force to MRP
Z_{T_O}	-341.5 in.	-1.366 in.	Vertical distance from orbiter balance center to MRP
i_B	14.75 deg.	14.75 deg.	Orbiter base cant angle
b_{REF}	936.68 in.	3.747 in.	Reference span (wing bending moment)

Symbol	Full Scale	Model Scale	Definition
$\bar{c}$	474.8 in.	1.8992 in.	Reference length for wing torsion
$\bar{c}_e$	90.7 in.	0.3628 in.	Reference length for elevons
Se_{REF}	210.0 ft.^{2}	0.4838 in.^{2}	Elevon reference area

All model forces and moments (measured by balance number 239) were resolved in the body axis system and are presented in the form of non-dimensionalized coefficients. Data were corrected for weight tares and sting/balance deflections. Reduction of the balance data to body axis coefficients was performed on-line by the MSFC TWT data reduction system. Combining of base pressure corrections to the coefficients, as reduced by the TWT data reduction system, was performed by the MSFC Aerodynamic Analysis Branch (ED32) to produce forebody coefficients.

MSFC TWT Data Reduction

Body axis coefficients for all balances and base pressure coefficients were reduced as shown below. Note that no corrections to the coefficients due to measured base pressures are required. Moment transfers are depicted in figure 4.

$$C_N = \frac{F_N}{q\ S_{REF}}$$

$$C_m = \frac{M_Y}{q\ S_{REF}\ L_{REF}} + \frac{F_N * X_{T_O}}{q\ S_{REF}\ L_{REF}} - \frac{F_A * Z_{T_O}}{q\ S_{REF}\ L_{REF}}$$

$$C_{A_T} = \frac{F_A}{q\ S_{REF}}$$

$$C_Y = \frac{F_Y}{q\ S_{REF}}$$

$$C_n = \frac{M_Z}{q\ S_{REF}\ L_{REF}} + \frac{F_Y * X_{T_O}}{q\ S_{REF}\ L_{REF}}$$

$$C_\ell = \frac{M_X}{q\ S_{REF}\ L_{REF}} - \frac{F_Y * Z_{T_O}}{q\ S_{REF}\ L_{REF}}$$

Wing Balance Coefficients

$$C_{N_W} = \frac{F_{N_W}}{q\ S_{REF}}$$, wing normal force coefficient

$$C_{B_W} = \frac{M_{B_W}}{q\ S_{REF}\ b_{REF}}$$, wing root bending moment coefficient for YMRP at Y_o = 105 in.

$$C_{T_W} = \frac{M_{T_W}}{q\ S_{REF}\ \bar{c}}$$, wing torsion moment coefficient for XMRP at X_o = 1307 in.

Elevon Hinge Moments

Outboard

$$C_{h_{e_o}} = \frac{HM_{e_o}}{q\ S_{e_{REF}}\ \bar{c}_e}$$

Inboard

$$C_{h_{e_i}} = \frac{HM_{e_i}}{q\ S_{e_{REF}}\ \bar{c}_e}$$

Base Pressure Adjustments

The pressure tap locations are shown in figure 20. The base pressure coefficients for each element were computed as follows:

Orbiter -

$$CPBO = 1/3\ (CPB1 + CPB3 + CPB4)$$

Left SRB -

$$CPBLS = CPB5$$

Right SRB -

$$CPBRS = CPB6$$

External Tank -

$$CPBT = 1/4 \sum_{i=7}^{10} CPB(i)$$

It should be noted that the orbiter, ET, and SRB pressure data were measured on each run. To compute forebody data the pressures measured from these runs were used.

Compute the base pressure adjustment coefficients as follows:

$$CNBO = (-1/SREF)(CPBO)(AO)(\tan 14.75^{\circ})$$

$$CNBFO = (-1/SREF)(CPB2)(ABF)$$

$$CLMBO = CNBO(X1/LREF) - CABO\ (Z1/LREF)$$

$$CLMBFO = CNBFO(X2/LREF)$$

$$CABO = (-1/SREF)(CPBO)(AO)$$

For the left SRB -

$$CABLS = (-1/SREF)(CPBLS)(AS)$$

$$CYNBLS = -CABLS(Y1/LREF)$$

For the right SRB -

CABRS = (-1/SREF) (CPBRS) (AS)

CYNBRS = CABRS (Y1/LREF)

For the external tank -

CABT = (-1/SREF) (CPBT) (AET)

Forebody Coefficients

Apply the base pressure adjustments to the balance data to obtain forebody coefficients for the mated vehicle.

CNF = CN - CNBO - CNBFO

CLMF = CLM - CLMBO - CLMBFO

CYF = CY

CYNF = CYN - CYNBLS - CYNBRS

CBLF = CBL

CAF = CAT - CABO - CABT - CABLS - CABRS

Incremental coefficient data presented in the "I" and "J" datasets were calculated by Data Management Services. Source data were interpolated to nominal Mach and Alpha conditions and calculated as follows:

$$\Delta C = C_{\text{with fairing}} - C_{\text{Baseline (D/S001)}} \quad \text{(Plume Off)}$$

$$\Delta C = C_{\text{with fairing}} - C_{\text{Baseline (D/S011)}} \quad \text{(Plume On)}$$

REFERENCES

1. Frost, Alonzo L., "Results of the SSLV Solid Plume Simulation Test - TWT 675 in the MSFC 14-Inch Trisonic Wind Tunnel," MSFC ED32-82-32, November 1, 1982

2. Simon, Erwin, "The George C. Marshall Space Flight Center's 14 x 14-Inch Trisonic Wind Tunnel Technical Handbook," NASA TM X-64624, November 5, 1971

3. Armstrong, Robert C., "Pretest Information for the Orbiter Wing and Elevon Load Alleviation Test (With and Without Solid Plumes) - Test Number 692 - in the MSFC 14-Inch Trisonic Wind Tunnel," MSFC ED32-83-38, November 1, 1983

TABLE I

TEST : MSFC692

DATE : Dec. 1983

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	PRESSURE (pounds/sq. inch) Total	PRESSURE (pounds/sq. inch) Dynamic	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	5.0×10^6	22	4.35	100
0.80	6.0		6.47	
0.90	6.4		7.37	
0.95	6.5		7.77	
1.05	6.7		8.45	
1.10	6.7		8.73	
1.15	6.8		8.96	
1.25	6.7		9.29	
1.46	6.5		9.47	

BALANCE UTILIZED: See below

	CAPACITY: *	ACCURACY: *	COEFFICIENT TOLERANCE: *
NF			
SF			
AF			
PM			
RM			
YM			

COMMENTS: Main Balance - MSFC #239
Wing Balance - Gaged Sections
Elevon Balances - Gaged Section

*See Tables II through IV

TABLE II. MSFC BALANCE 239 CHARACTERISTICS

Capacity	Accuracy	Coef. Tol.	Max Loads*
NF 200 lb	± 1.00 lb	± 0.0160	50 lb
SF 100 lb	± 0.50 lb	± 0.0080	30 lb
AF 50 lb	± 0.25 lb	± 0.0040	30 lb
PM 200 in-lb	± 0.99 in-lb	± 0.0031	176 in-lb
RM 98 in-lb	± 0.25 in-lb	± 0.0018	35 in-lb
YM 100 in-lb	± 0.49 in-lb	± 0.0016	45 in-lb

*Maximum estimated running loads and not starting loads.

TABLE III. CONTROL SURFACE LOADS (RATED AND MAXIMUM EXPECTED)

δ_{E_I}	Capacity	Accuracy	Coef. Tol.	Max Loads*
Inboard Balances				
10°	0.4 in-lb	0.004 in-lb	0.0025	0.108
Outboard Balances				
5°	0.4 in-lb	0.004 in-lb	0.0025	0.127

*Maximum estimated running loads and not starting loads.

TABLE IV. WING PANEL LOADS (RATED AND MAXIMUM EXPECTED)

Capacity**	Accuracy	Coef. Tol.	Max Loads*
NW 13.0 lb	± 0.65 lb	± 0.0105	11.90 lb
BW 8.4 in-lb	± 0.42 in-lb	± 0.0018	7.90 in-lb
TW 3.4 in-lb	± 0.18 in-lb	± 0.0015	2.0 in-lb

*Maximum estimated running loads and not starting loads.

**BW and TW load limits are for wing balance center.

TABLE V

TEST: MSFC TWT 692 — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 2/17/84

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_{er}	CONTROL DEFLECTION δ_{ea}	CONTROL DEFLECTION PLUME	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.8	0.9	0.95	1.05	1.10	1.15	1.25	1.46
*A6001	OTS - BASELINE	A	0	10°	5°	OFF	9	81/0	1/2	2/0	82/0	83/0	3/0	84/0	4/0	34/0
002	OTS + 10° RAMP-1						5		8/0	7/0			6/0		5/1	35/0
003	-2								9/0	10/0			11/0		12/0	36/0
004	-3								16/0	15/0			14/0		13/0	37/0
005	OTS + OGIVE FAIRING-1								17/1	18/0			19/0		20/0	38/0
006	-2								24/0	23/0			22/0		21/0	39/0
007	-3								25/0	26/0			27/0		28/0	40/0
008	OTS + LARGE FAIRING								32/0	31/0			30/0		29/0	33/0
009	OTS + WING FAIRING-1														85/0	
010	-2														86/0	
011	OTS - BASELINE					ON			67/1	68/0			50/0		49/0	48/0
012	OTS + 10° RAMP-1								70/0	69/0			51/0		52/0	44/0
013	-2								71/0	72/0			54/0		53/0	45/0
014	-3								74/0	73/0			55/0		56/0	46/0
015	OTS + OGIVE FAIRING-1								75/0	76/0			58/0		57/0	43/0
016	-2								78/0	77/0			59/0		60/0	42/0
017	-3								79/0	80/0			62/0		61/0	41/0
018	OTS + LARGE FAIRING								66/0	65/0			63/0		64/0	47/0

TEST RUN NUMBERS

SEE NEXT PAGE FOR COEFFICIENT SCHEDULES

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

COEFFICIENTS

α OR β SCHEDULES (A) α = -10, -8, -6, -4, -2, 0, 2, 4, 6, 8, 10

NASA-MSFC-MAF

TABLE V (Concluded)

DATASET/RUN NUMBER COLLATION SUMMARY COEFFICIENT SCHEDULES

Dataset Identifier 1st Character	1st Ind. Variable	2nd Ind. Variable	Coefficients
R	MACH	ALPHA	BETA, CAF, CNF, CLMF, CY, CYNF, CBL
S	↓	↓	BETA, CAT, CN, CLM, CY, CYN, CBL
T	↓	↓	CNW, CBW, CTW, CHEI, CHEO, PO, PS, Q
U	↓	↓	CPB1, CPB2, CPB3, CPB4, CPB5, CPB6, CPB7, CPB8, CPB9, CPB10
I*	↓	↓	DCNW, DCBW, DCTW, DCHEI, DCHEO,
J*	↓	↓	DCAF, DCNF, DCLMF, DCY, DCYNF, DCBL

*Incremental data calculated by Data Management Services

TABLE VI

PLUME CONFIGURATIONS AND LOCATIONS

MACH NUMBER	PLUME CONFIGURATION AND LOCATION	
	SSME (PO)*	SRB
0.8	None	P3C1 (X = 2.5 in.)
0.9	None	P3C1 (X = 2.5 in.)
1.1	Yes	P3C1 (X = 2.5 in.)
1.25	Yes	P3C1 (X = 2.0 in.)
1.46	Yes	P4C4 (X = 2.0 in.)

*The SSME plume configuration (designated PO) will be located as shown in figure 13.

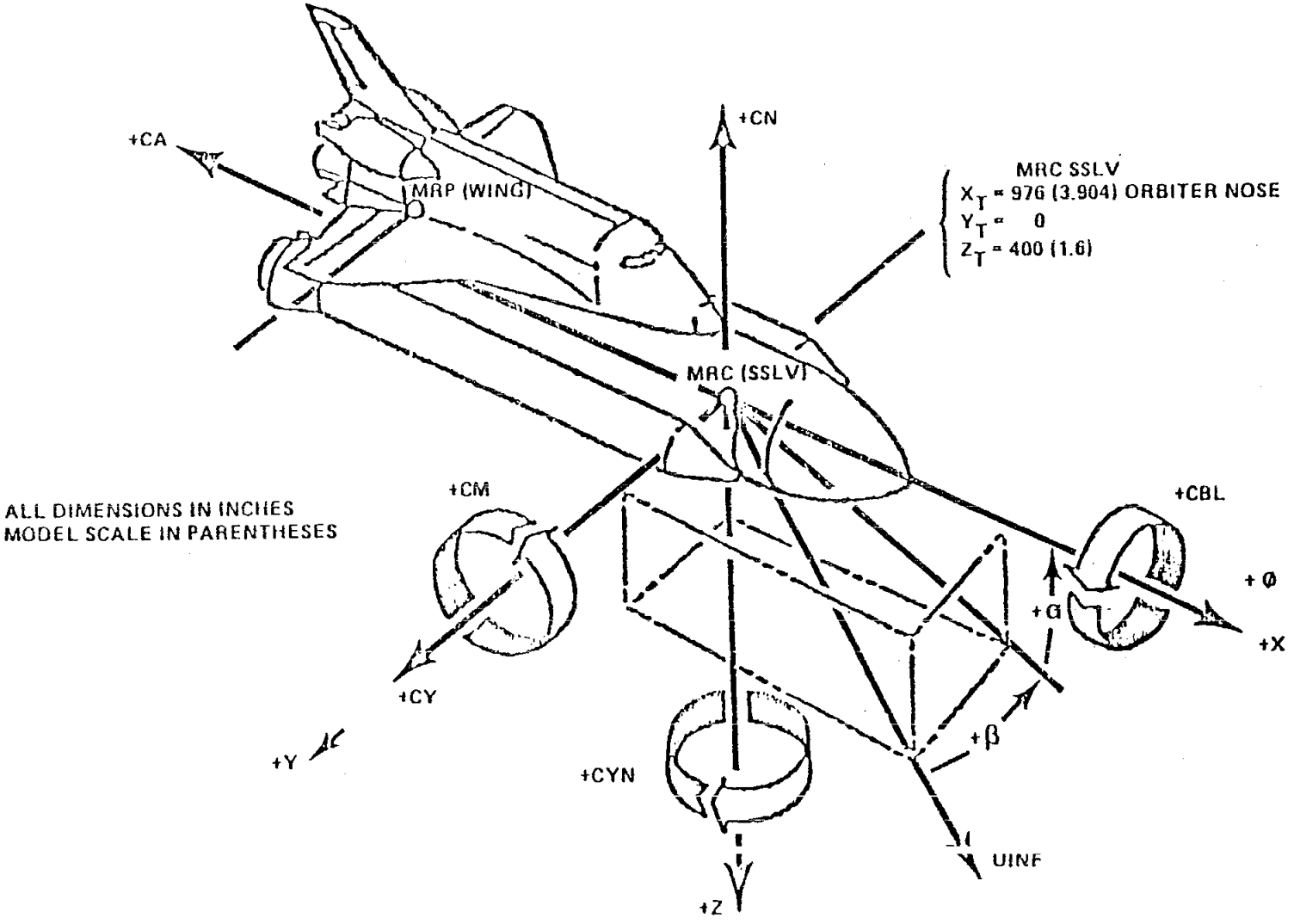
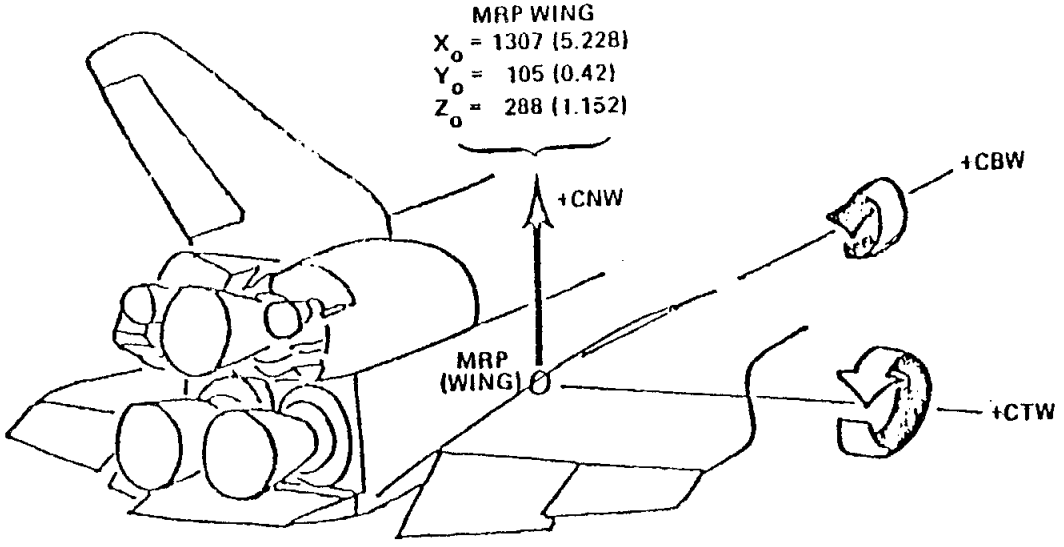
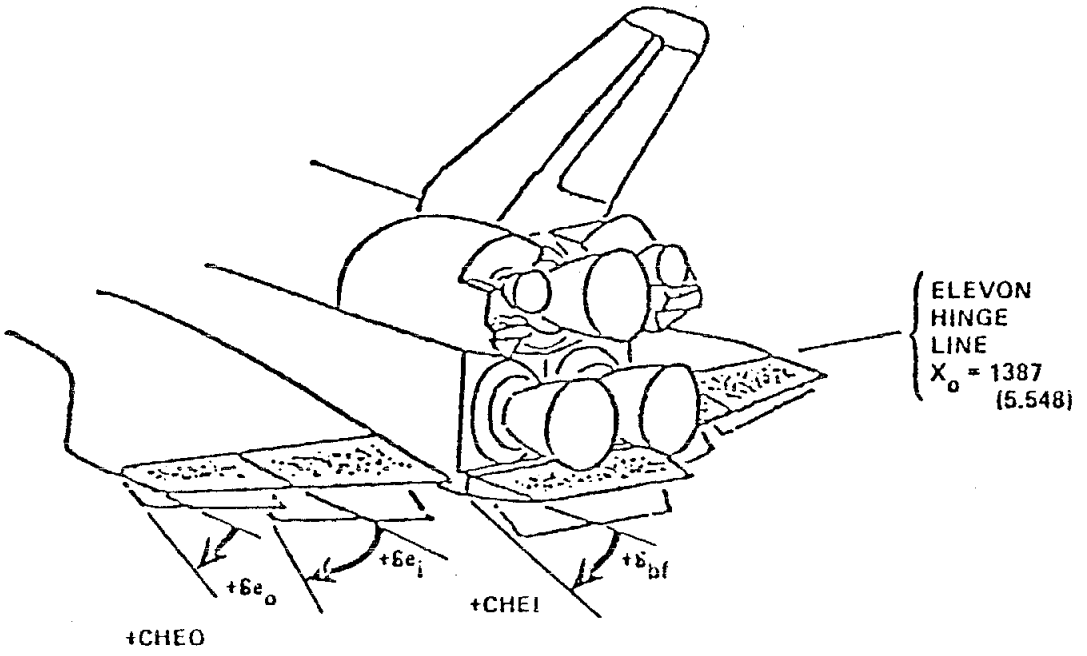


Figure 1. Aerodynamic Body-Axis Reference System



ALL DIMENSIONS IN INCHES
MODEL SCALE IN PARENTHESES

Figure 2. Wing Coordinate Axes



ALL DIMENSIONS IN INCHES
MODEL SCALE IN PARENTHESES

Figure 3. Elevon Coordinate Axes

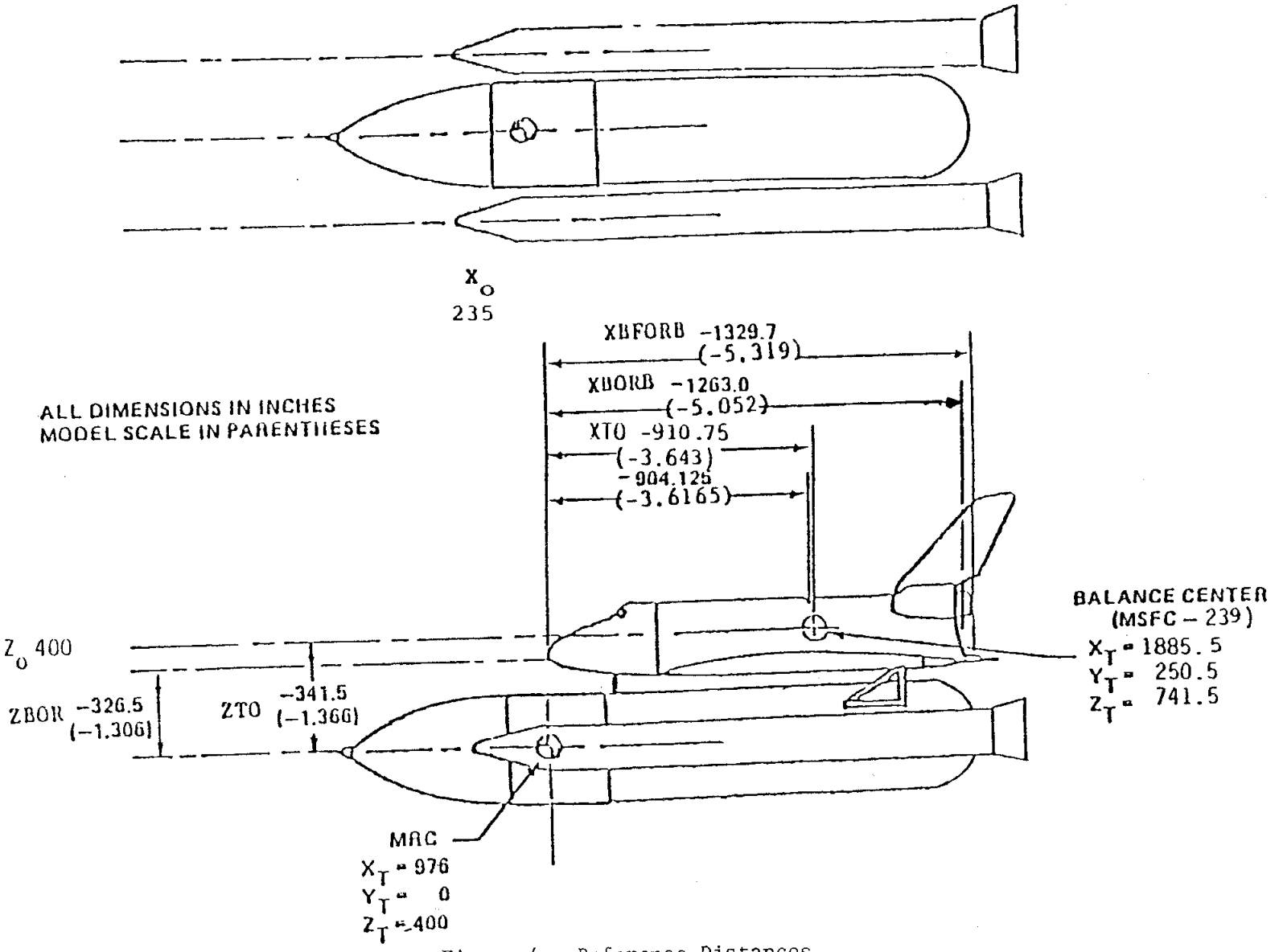
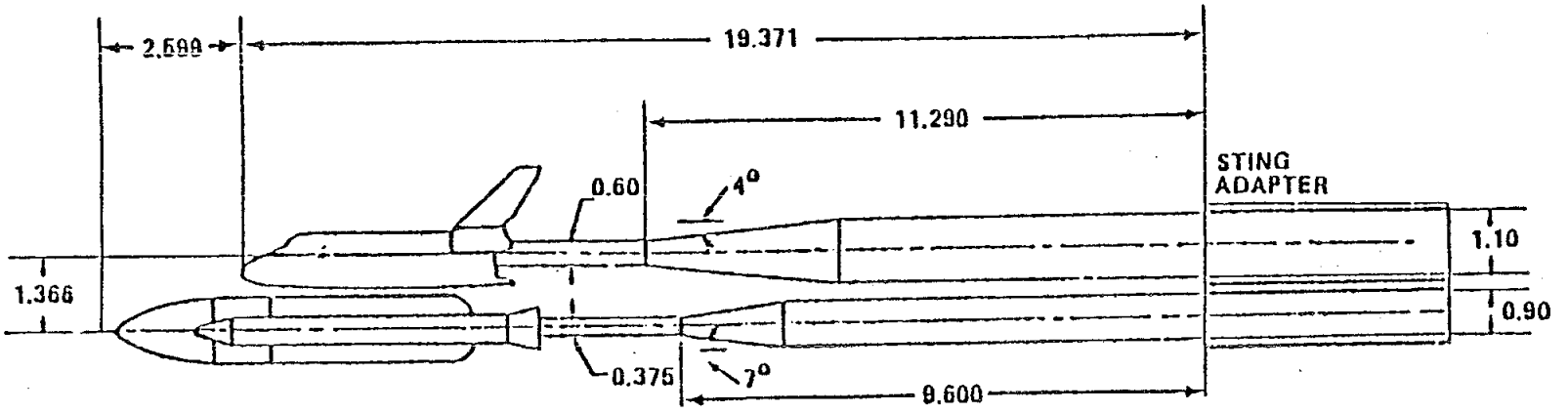


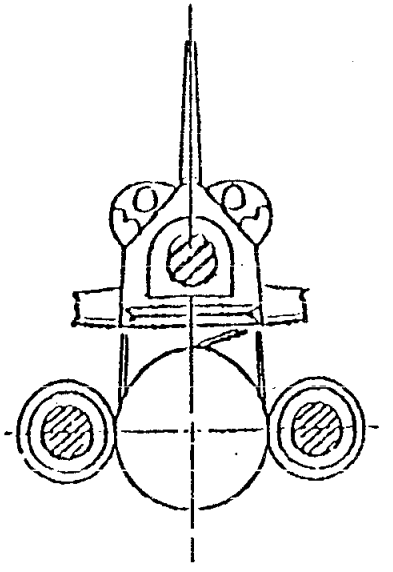
Figure 4. Reference Distances



STING ONLY

STING + BALANCE

ALL DIMENSIONS IN INCHES



NOTE: The SRB stings will be positioned such that they are flush with the back of each SRB.

All dimensions in inches.

Figure 5. Model-Sting-Balance Arrangements

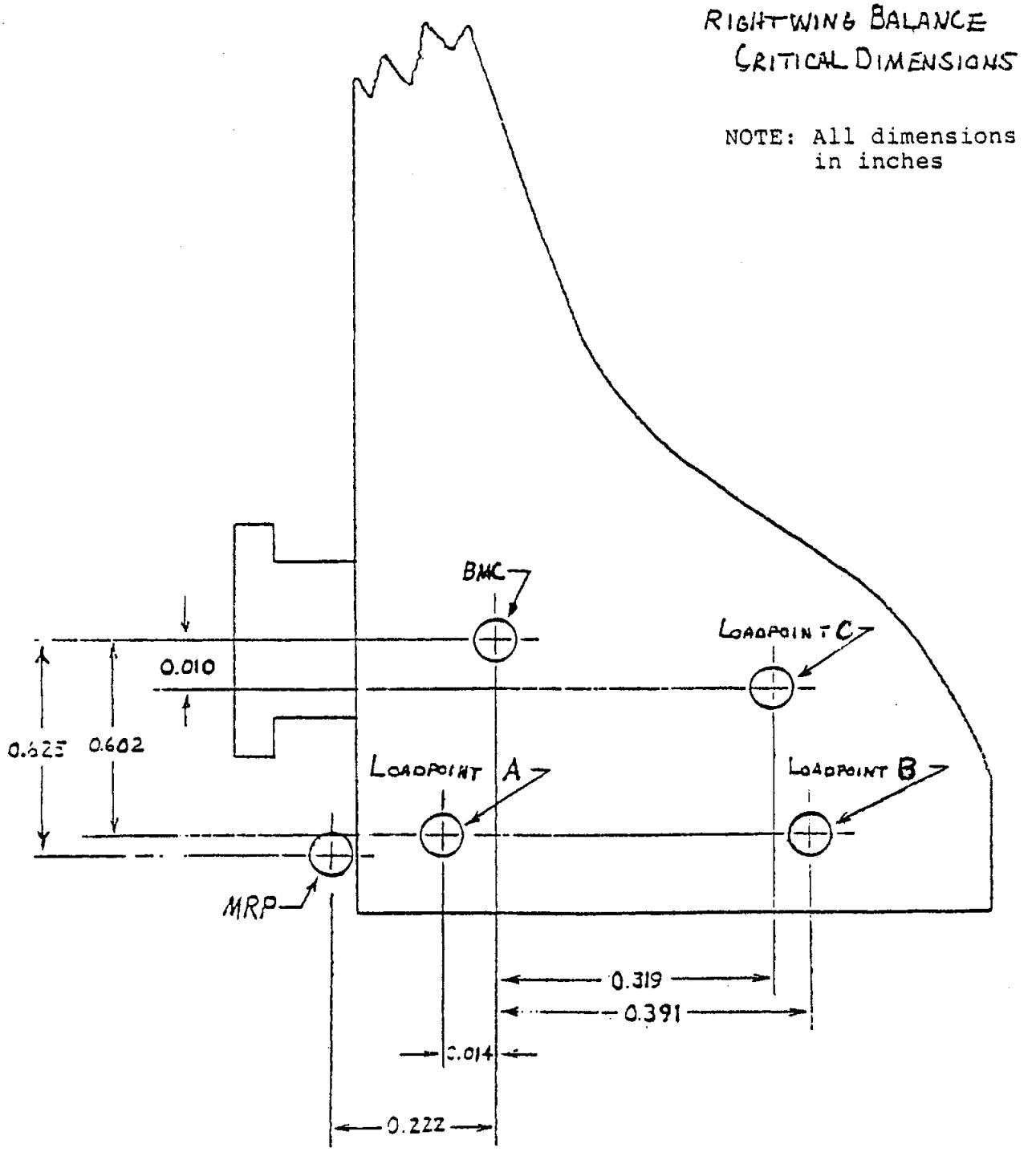


Figure 6. Wing Balance Geometry

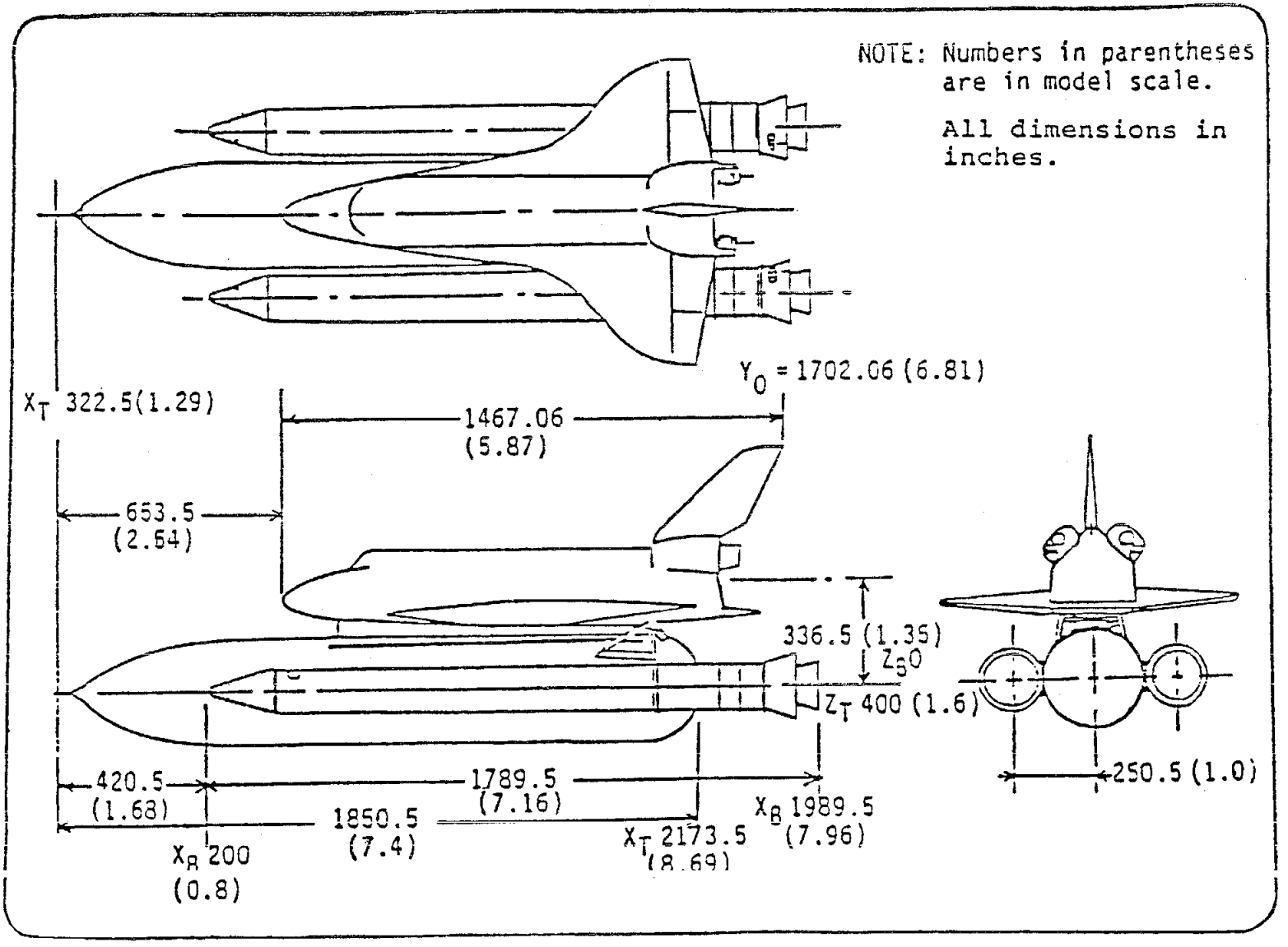


Figure 7. Launch Vehicle Geometry (Baseline)

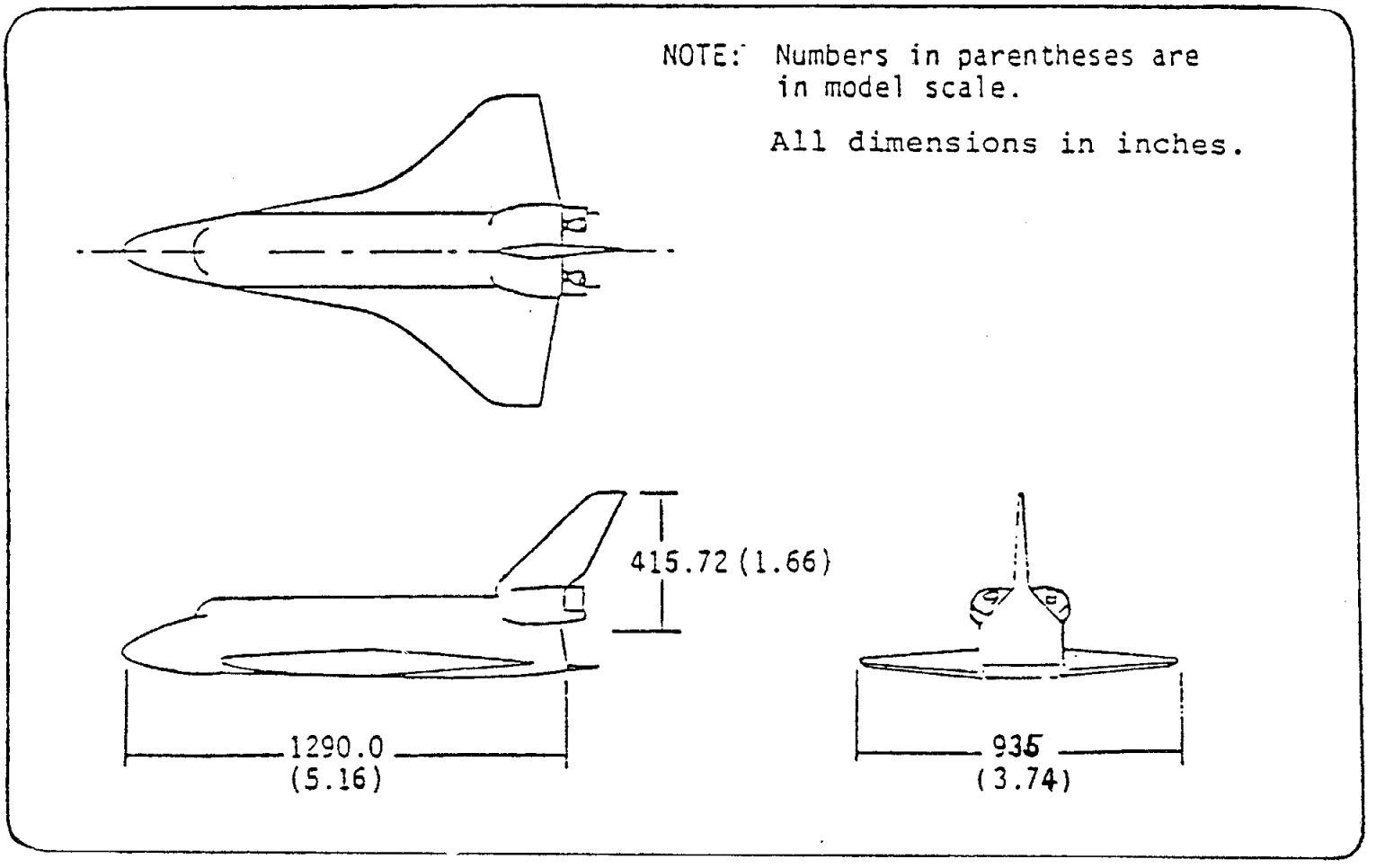


Figure 8. Orbiter Geometry

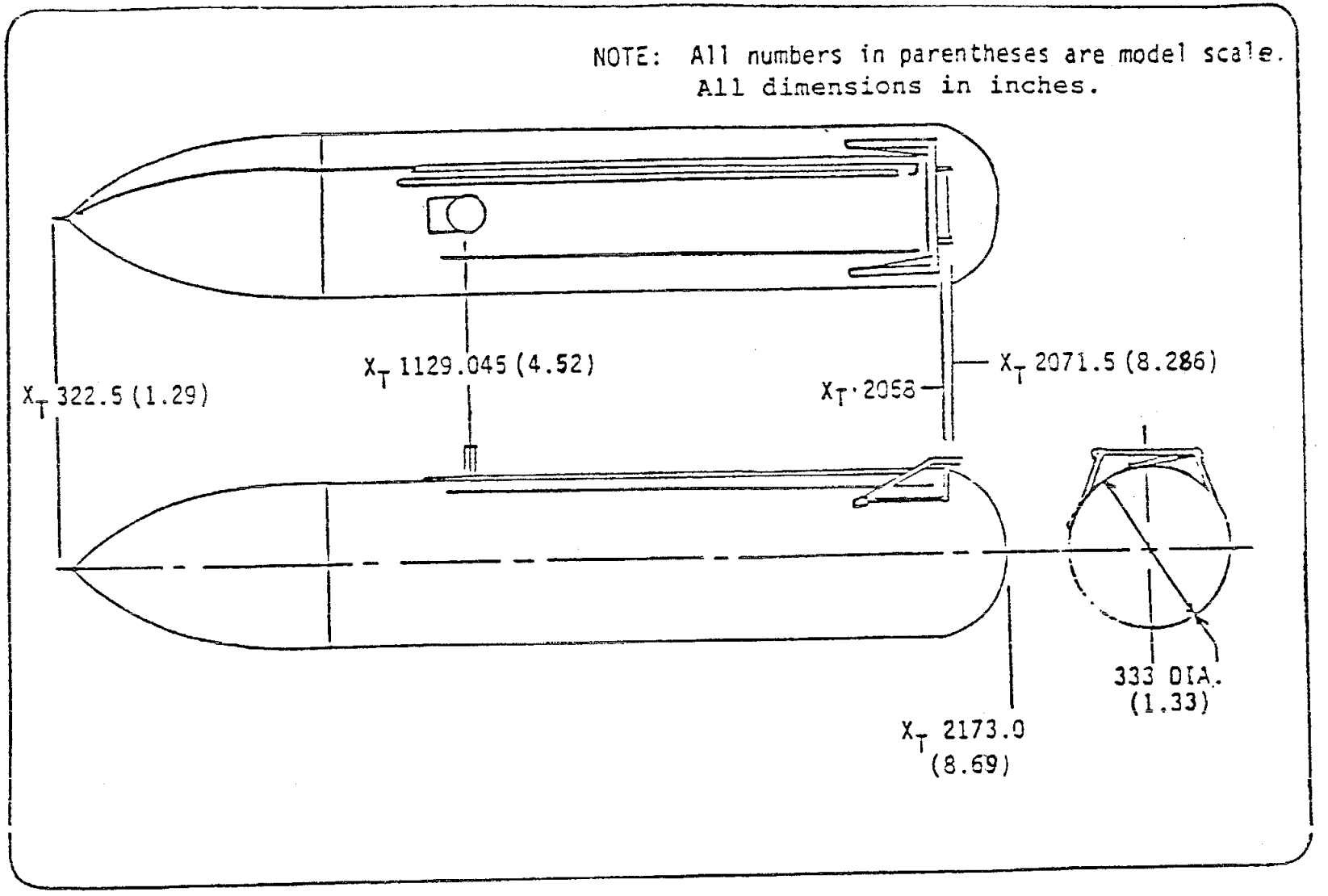


Figure 9. External Tank Geometry

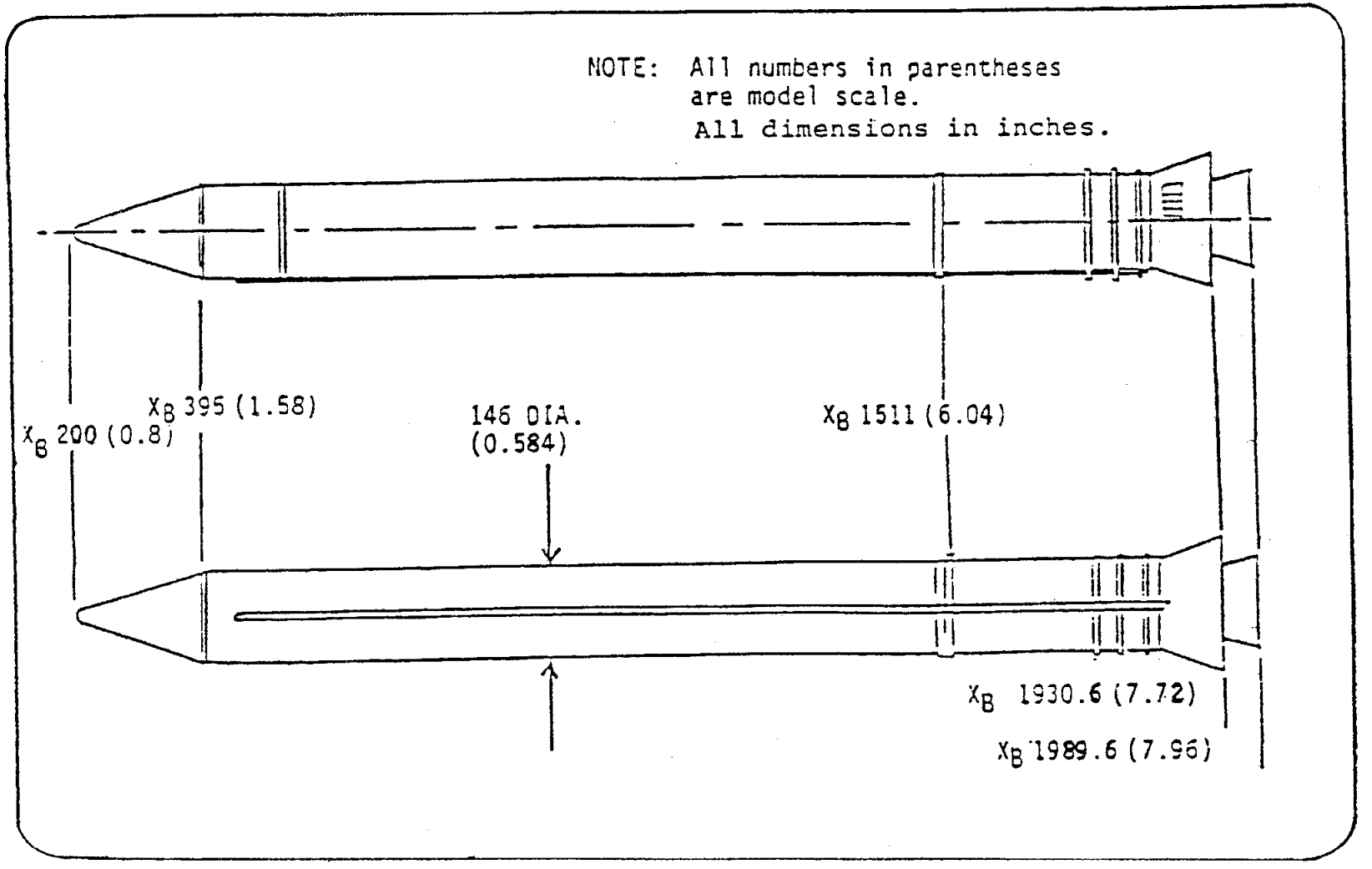
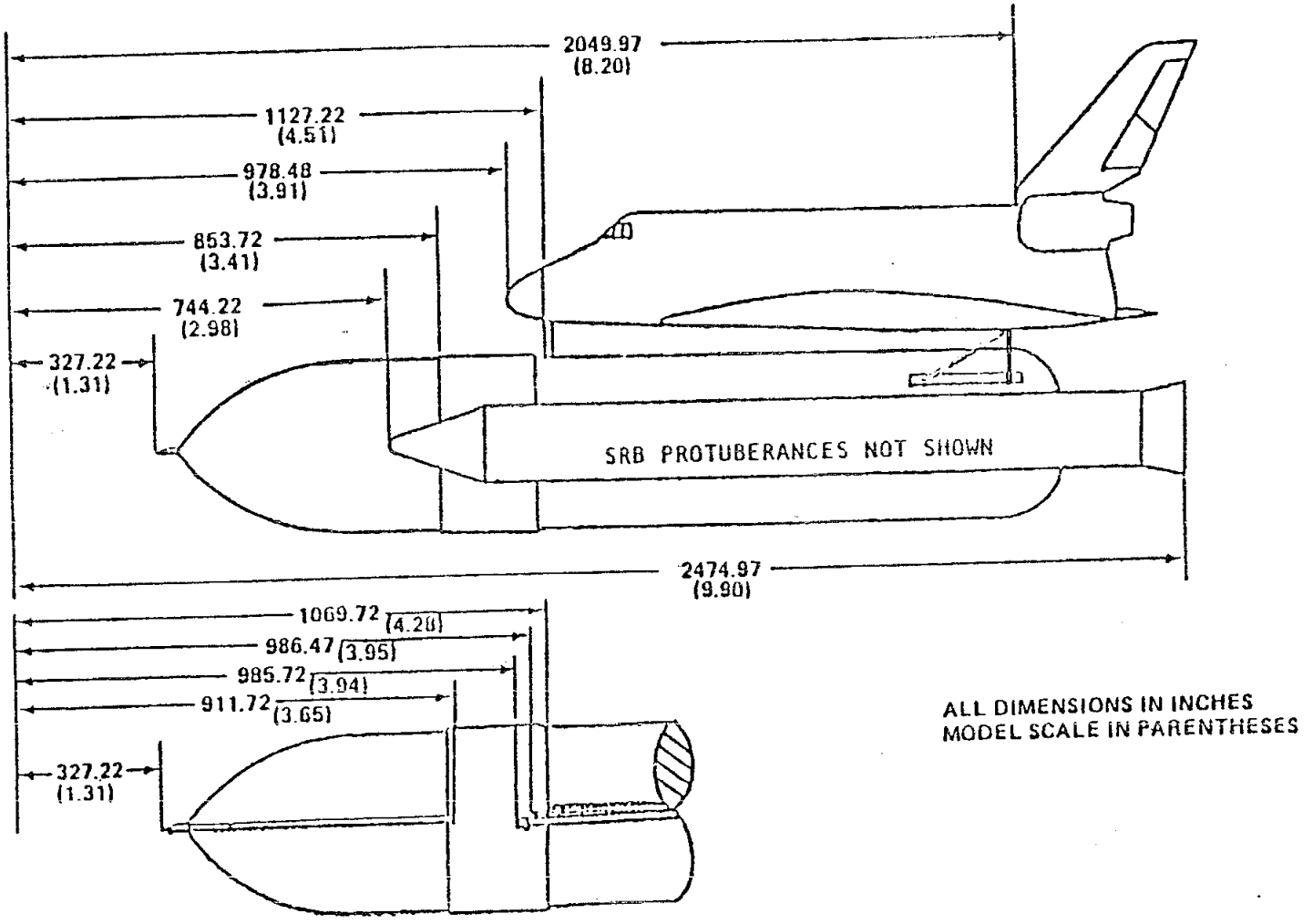


Figure 10. Solid Rocket Booster Geometry



SCALE MODEL DETAILS

Figure 11. Model Information

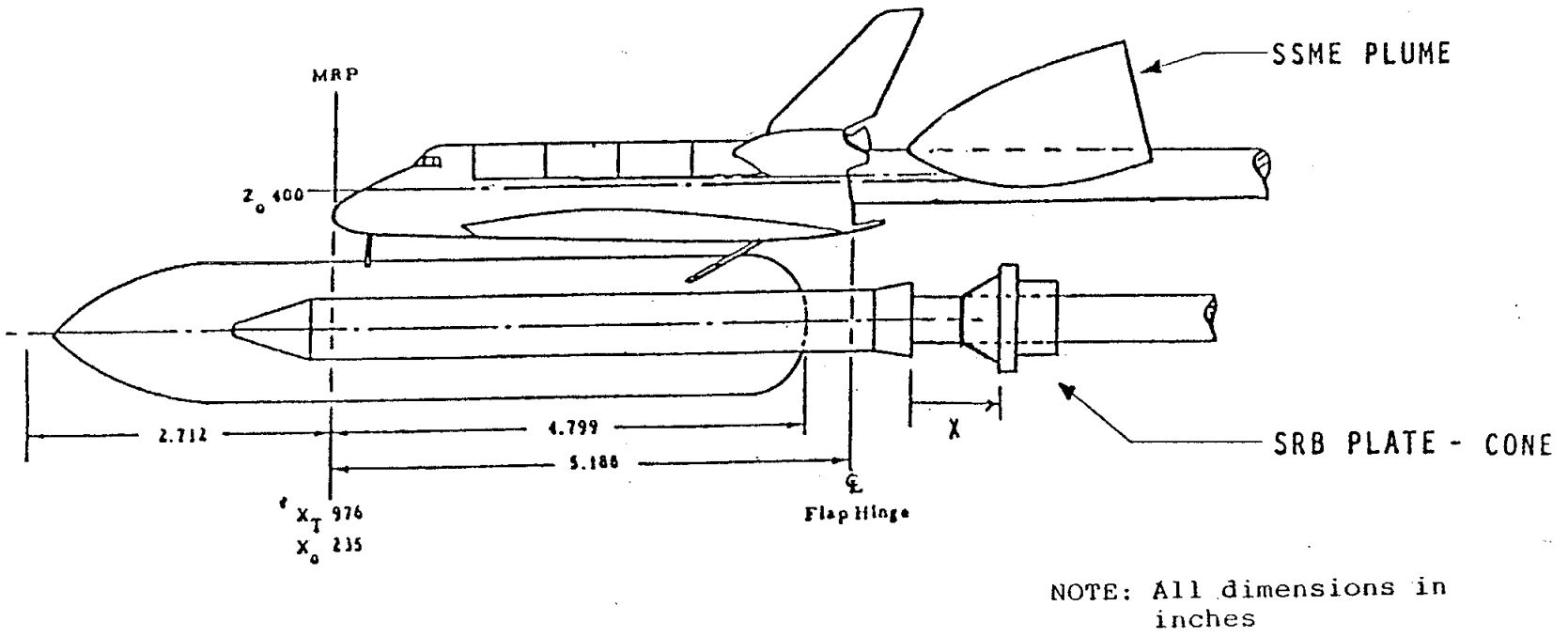


Figure 12. SSLV Solid Plume Simulation Model

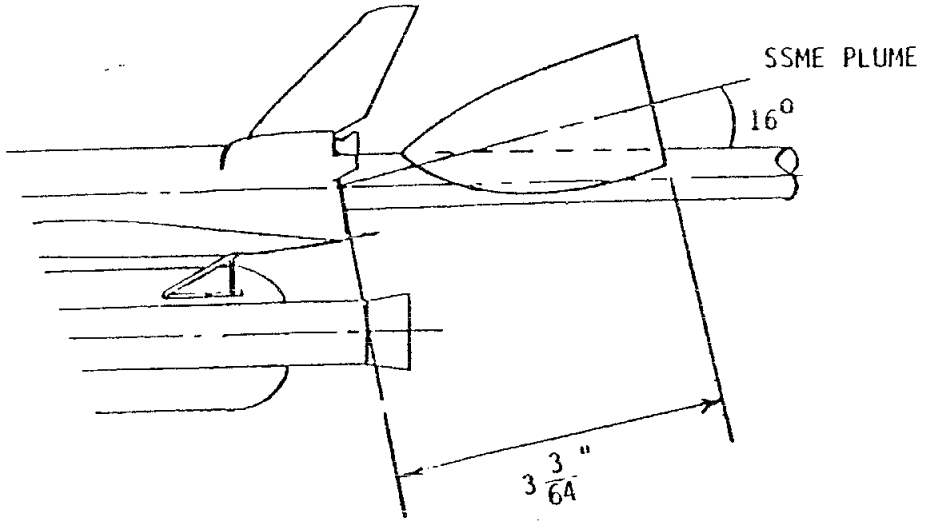


Figure 13. SSME Plume Positions

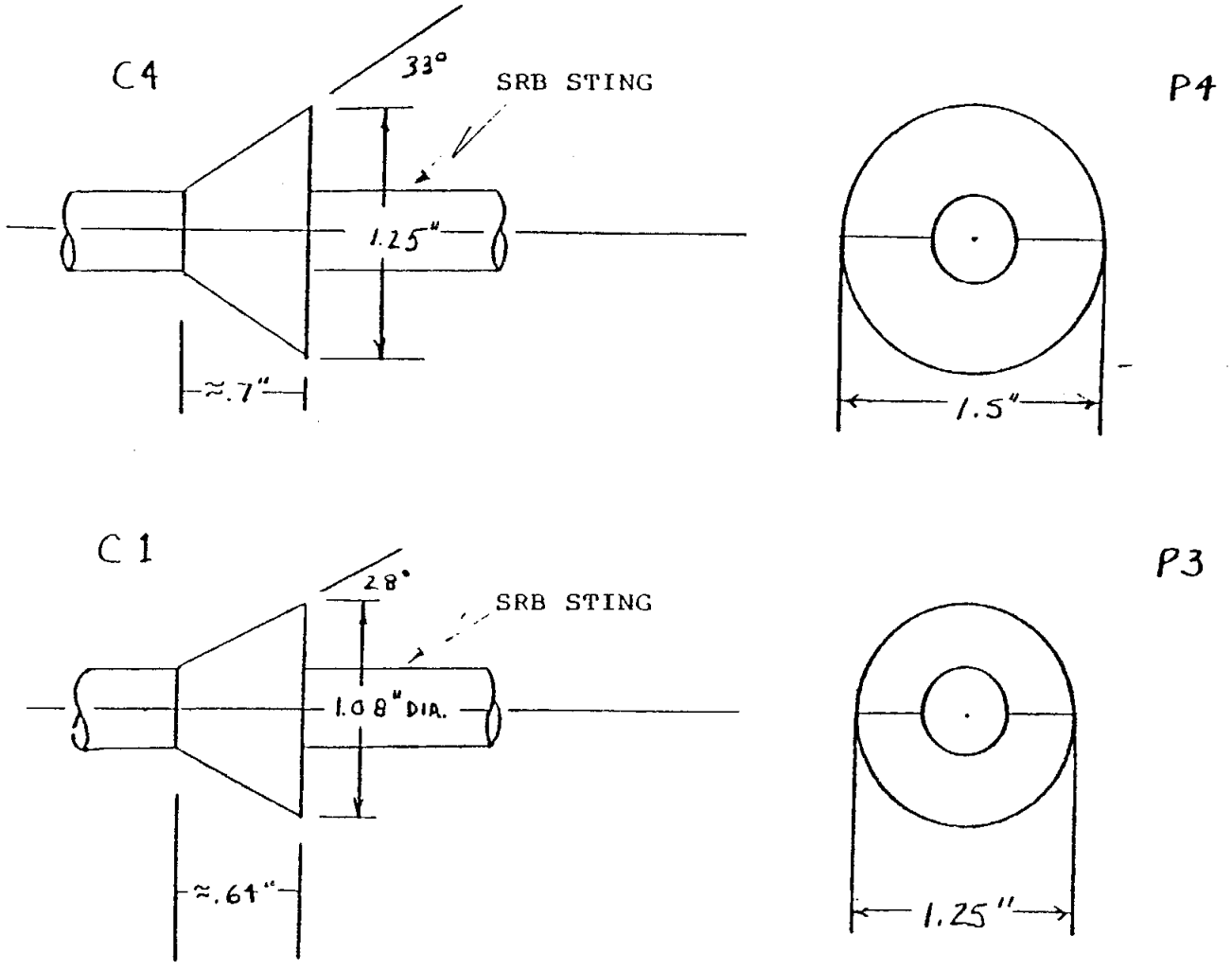
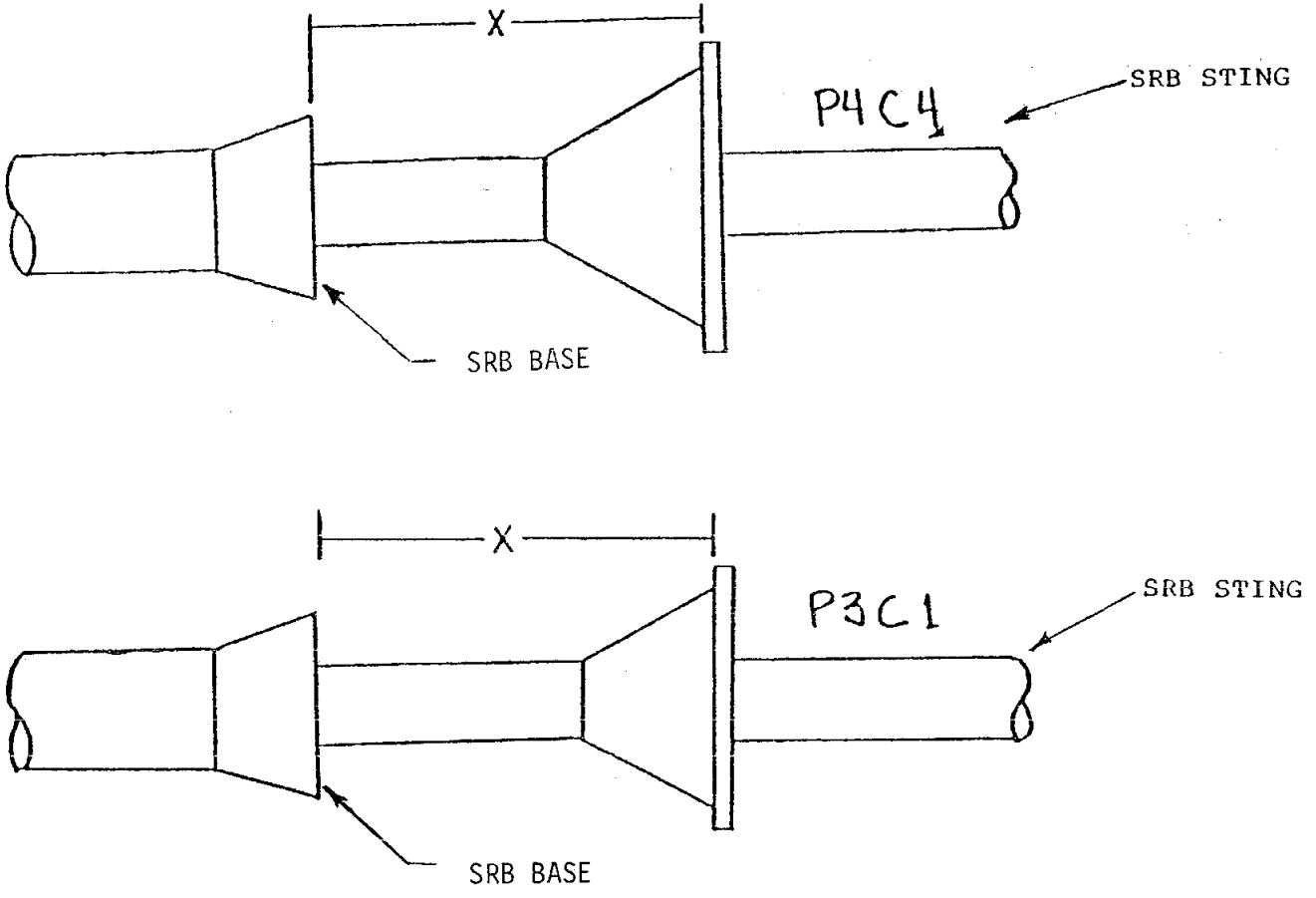
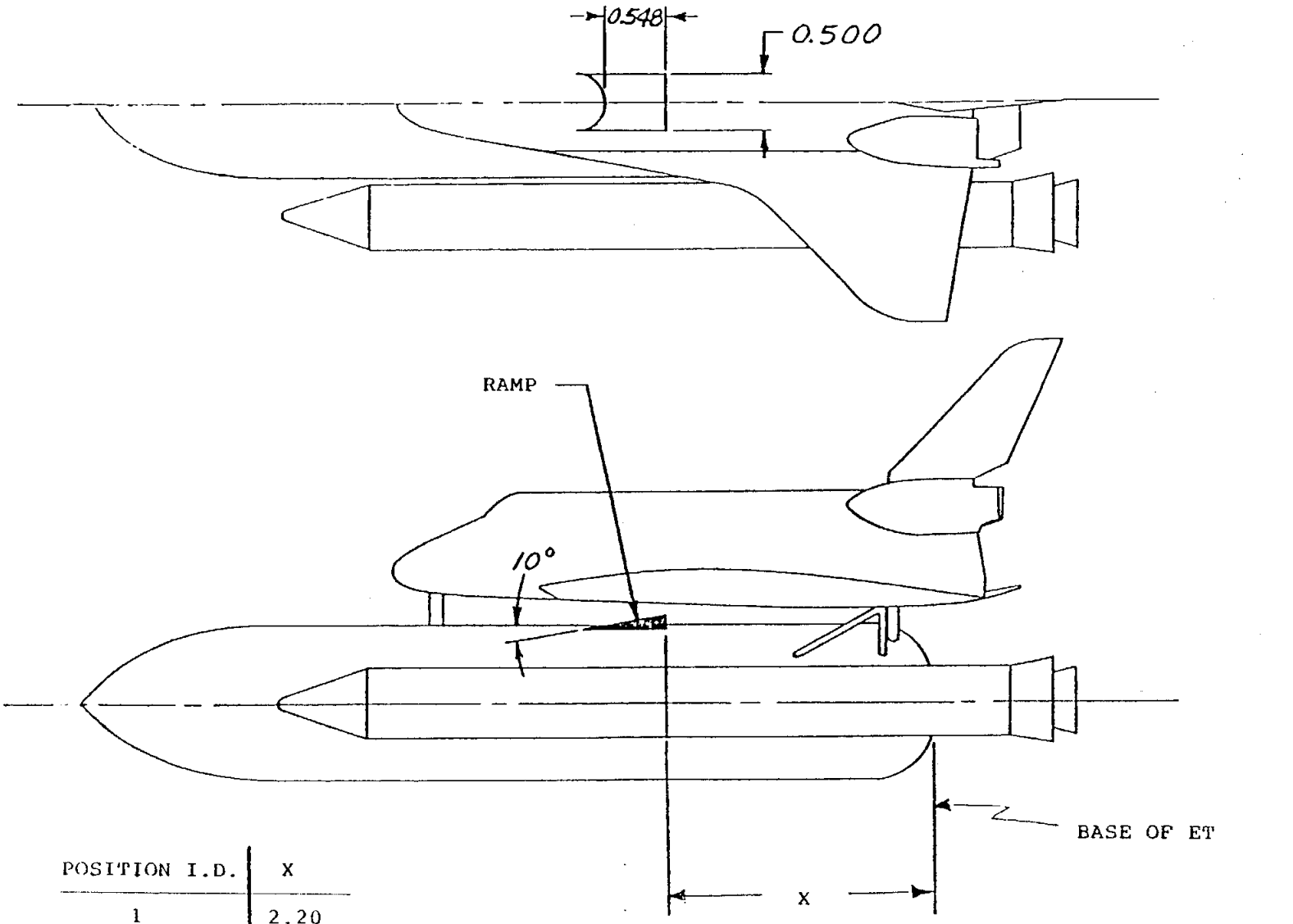


Figure 14. SRB Plume Simulators



NOTE: See Table VI for X values.

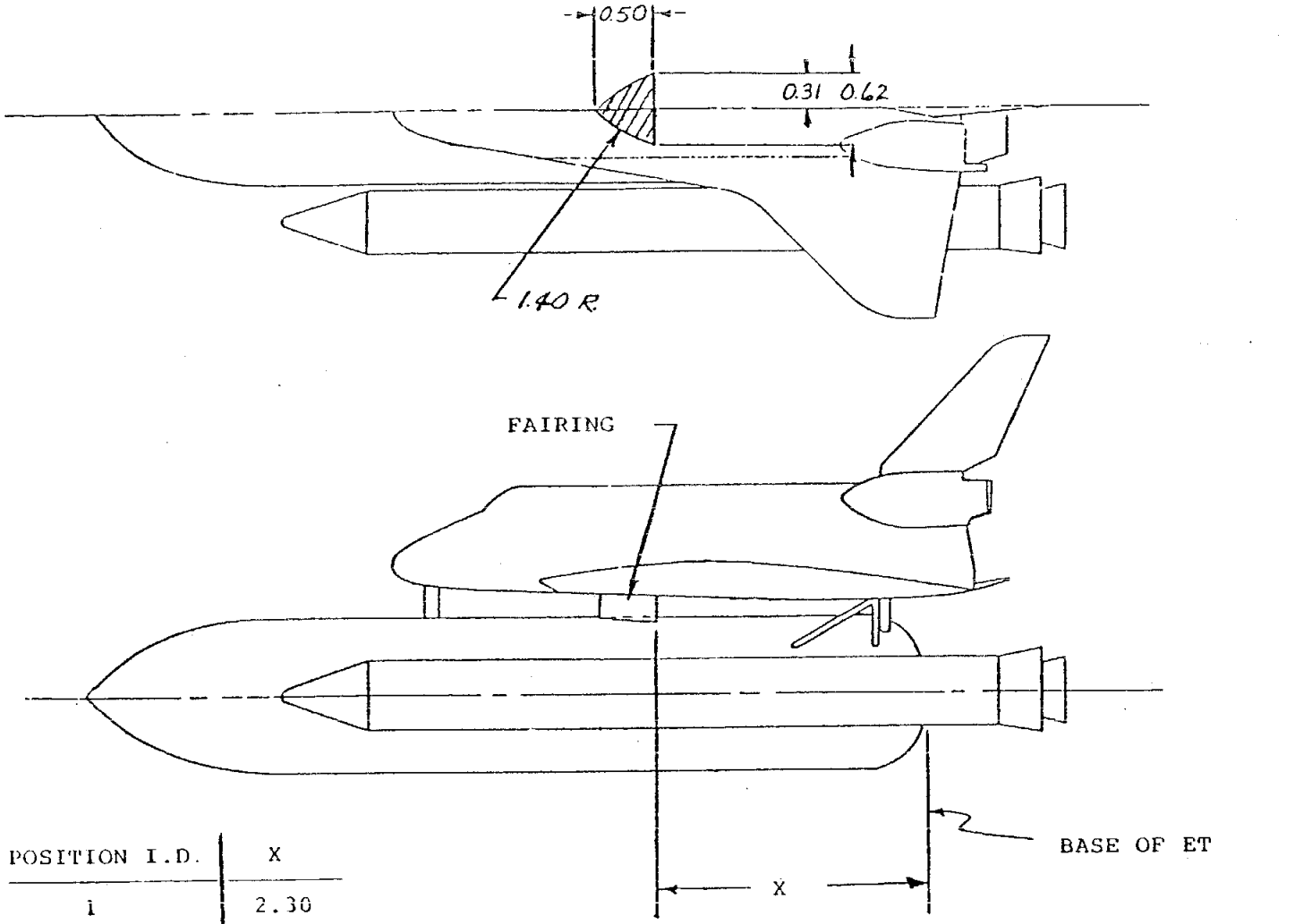
Figure 15. SRB Plume Positions



POSITION I.D.	X
1	2.20
2	1.70
3	1.20

NOTE: All dimensions in inches

Figure 16. 10° Ramp Fairing



POSITION I.D.	X
1	2.30
2	1.80
3	1.30

NOTE: All dimensions in inches

Figure 17. Ogive Fairing

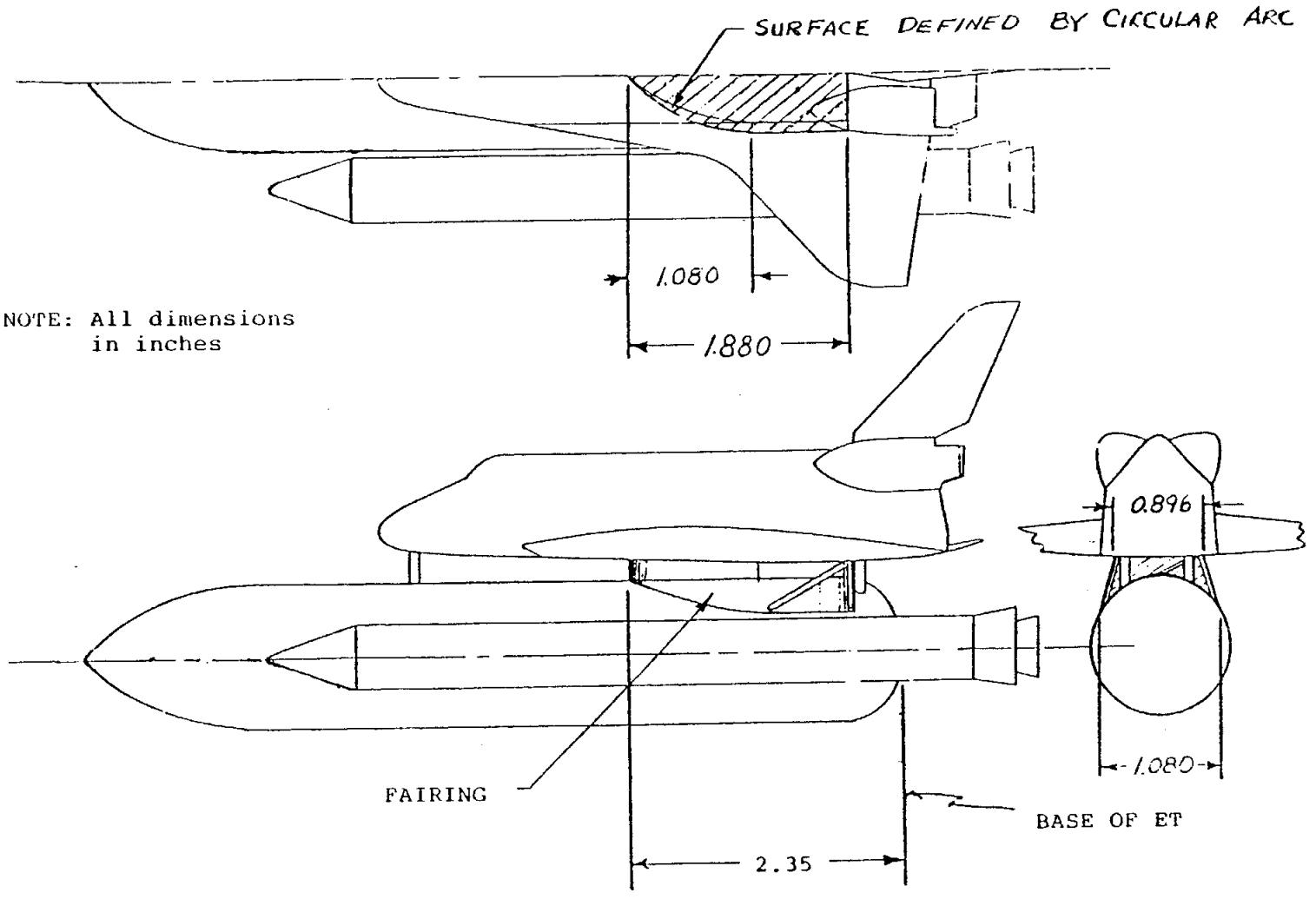
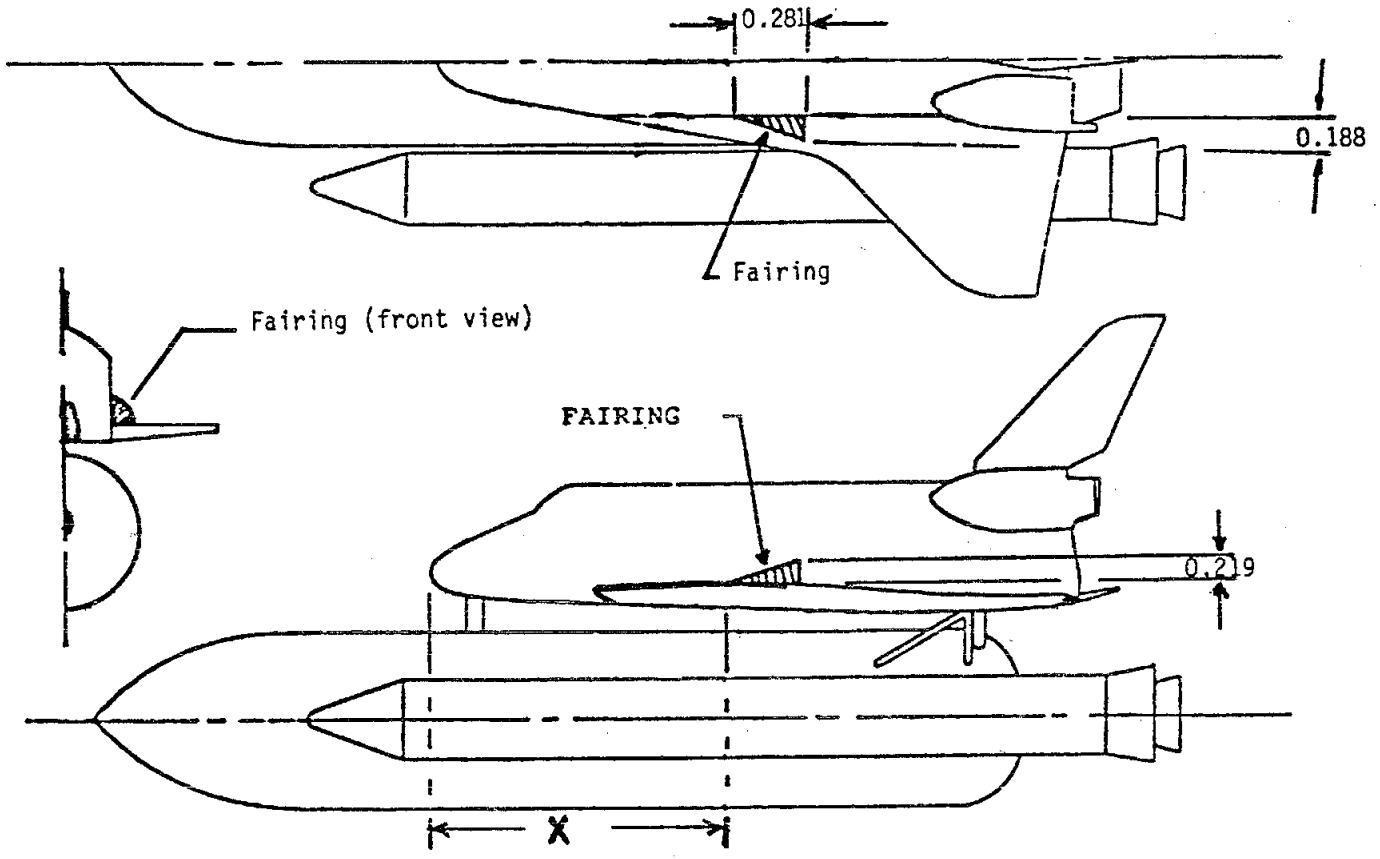


Figure 18. Aft Orbiter Attach Structure Fairing



POSITION I.D.	X
(Run 85/0) 1	3.406
(Run 86/0) 2	3.031

NOTE: All dimensions in inches

Fairing mounted on top of Orbiter wing.

Figure 19. Wing Fairing Configuration and Locations

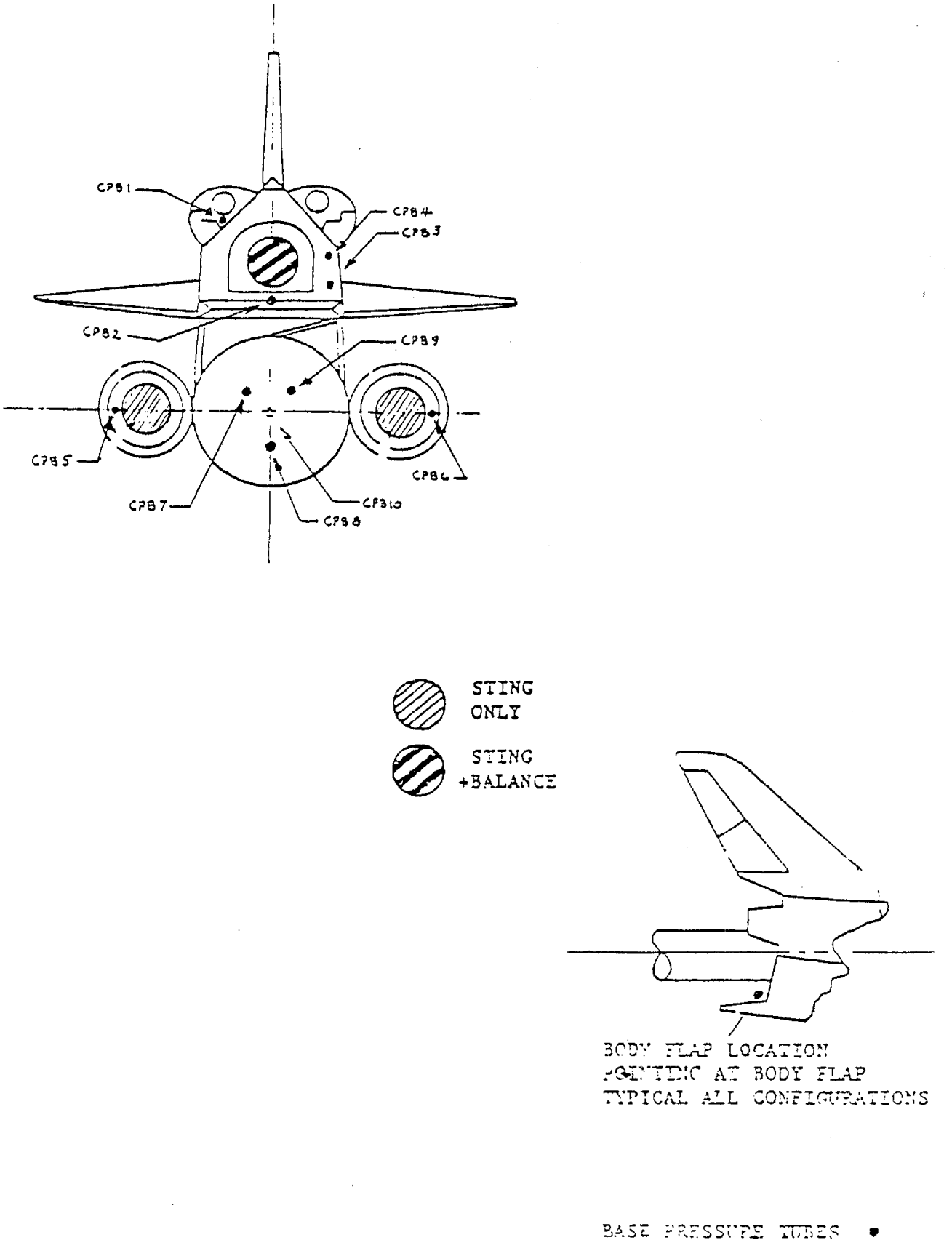
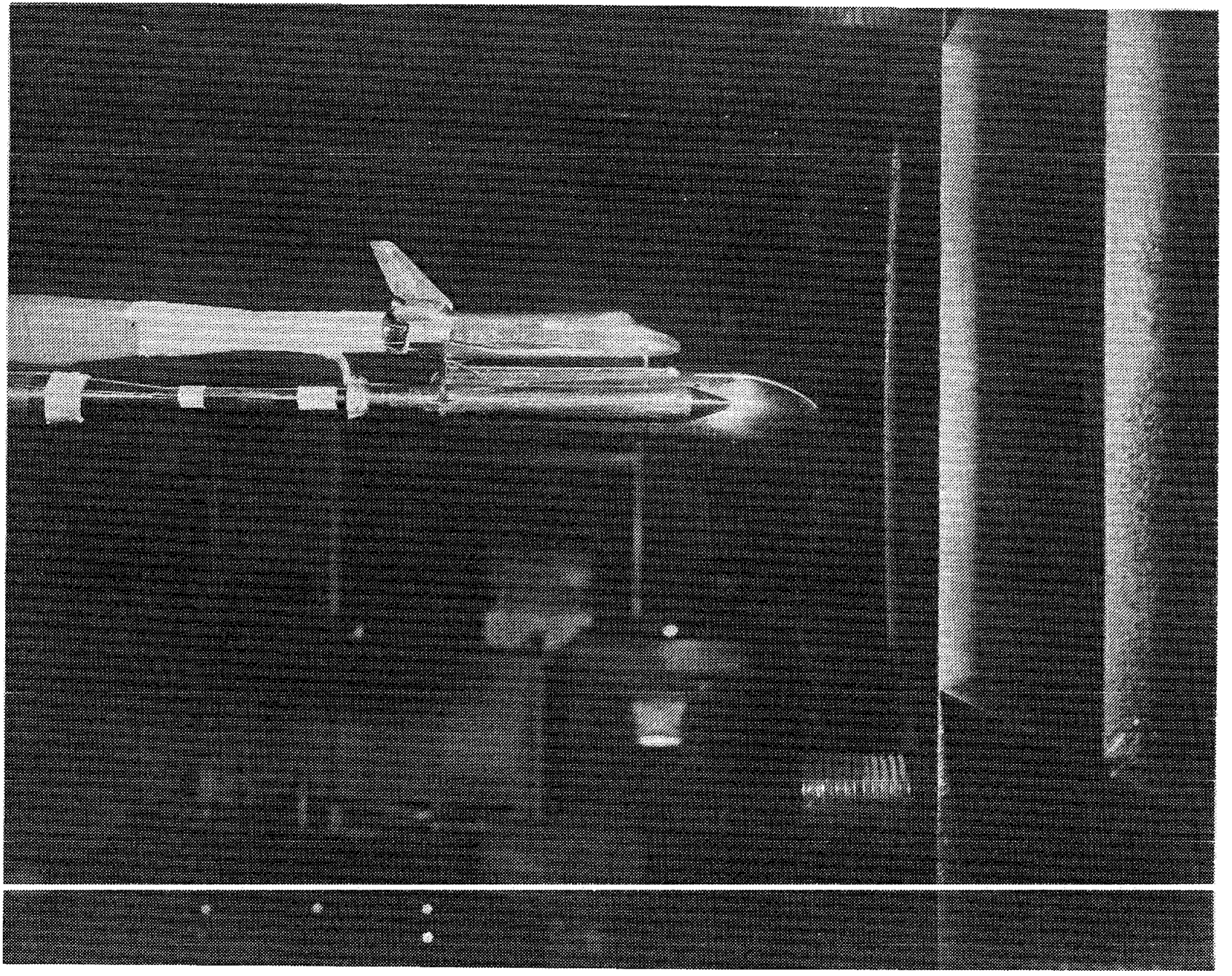
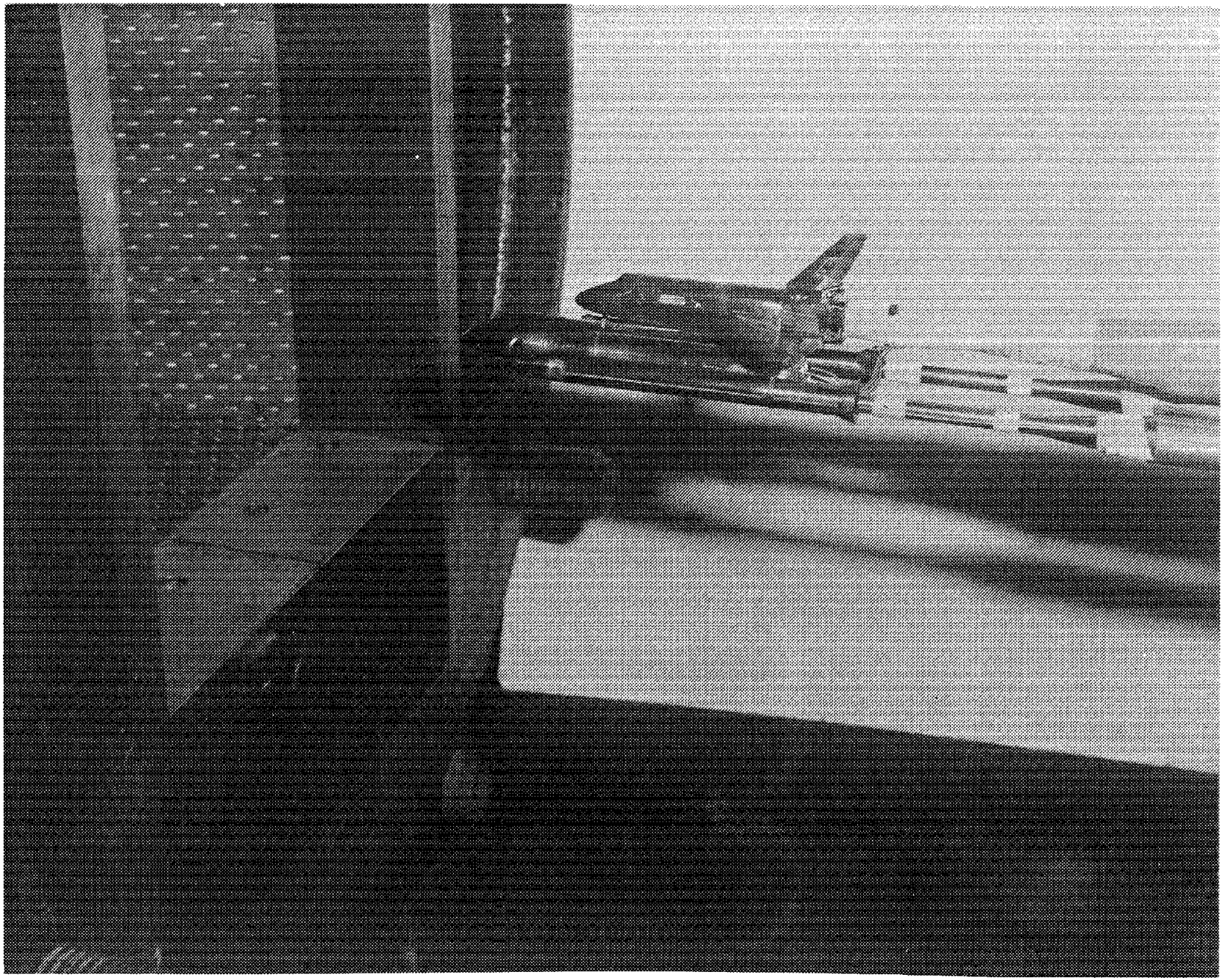


Figure 20. Base Pressure Locations



a. Baseline Configuration, No Plumes, No Fairings - Right Side View

Figure 21. Model Installation Photographs



b. Baseline Configuration, No Plumes, No Fairings - Left Side View

Figure 21 (Concluded)

DATA FIGURES

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6005	◇	MSFC TWT 692.OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692.OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

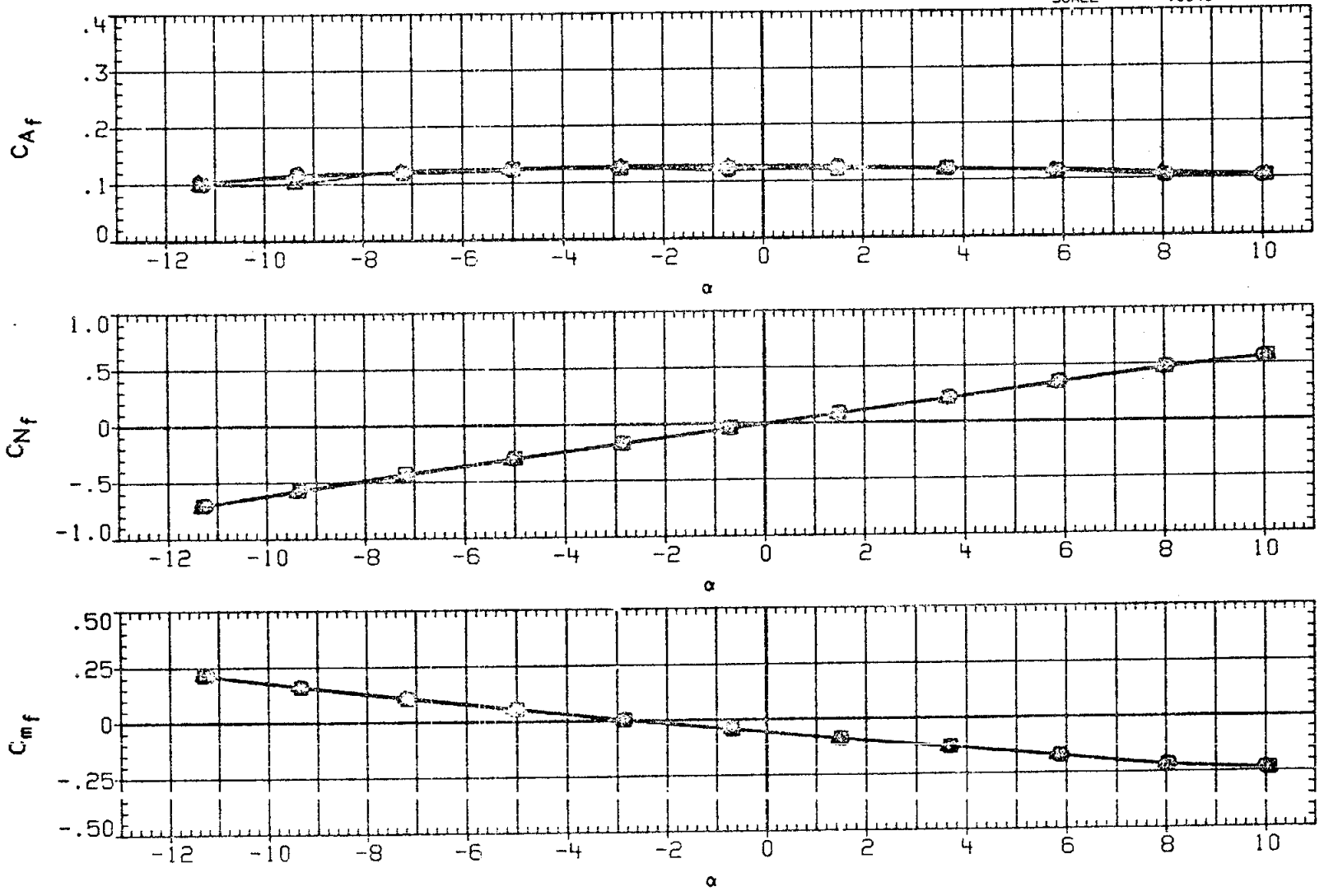


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

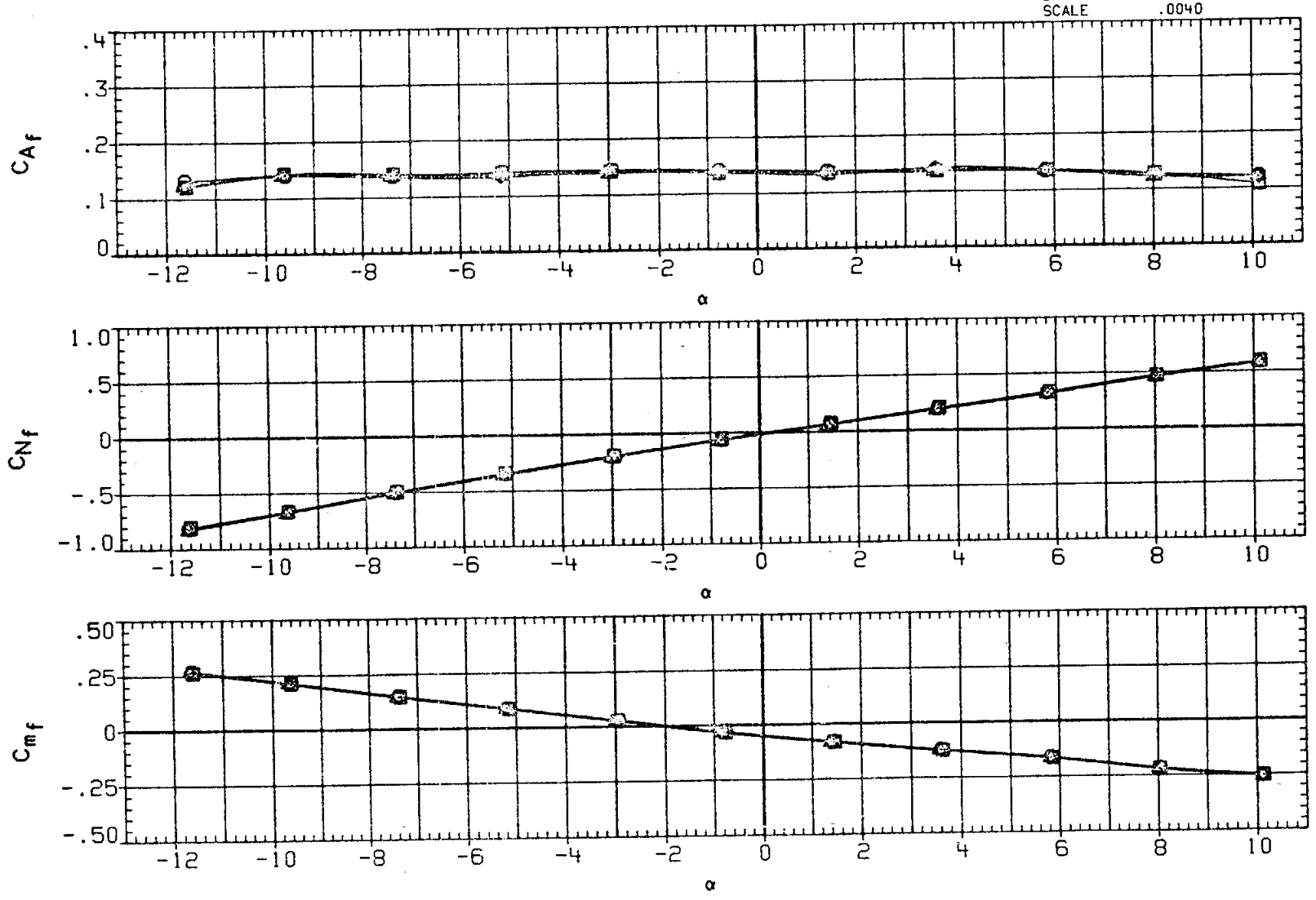


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION		BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) -	PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)-	PLUME OFF	.000	10.000	5.000	OFF
RA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)-	PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING -	PLUME OFF	.000	10.000	5.000	OFF
RA6009	◺	DATA NOT AVAILABLE		.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

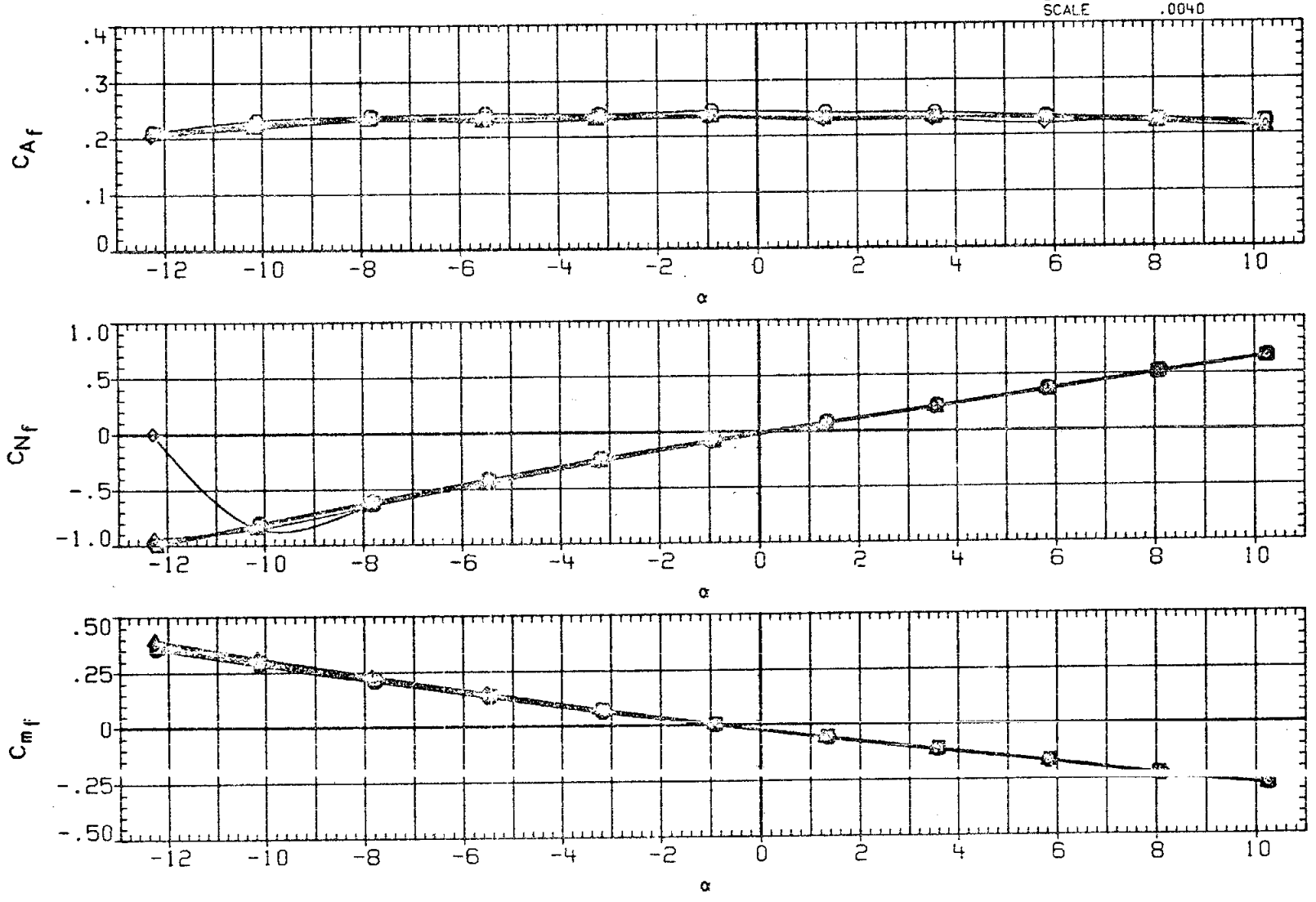


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6009	◺	MSFC TWT 692,OTS+WING FAIRING(POS.1) - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

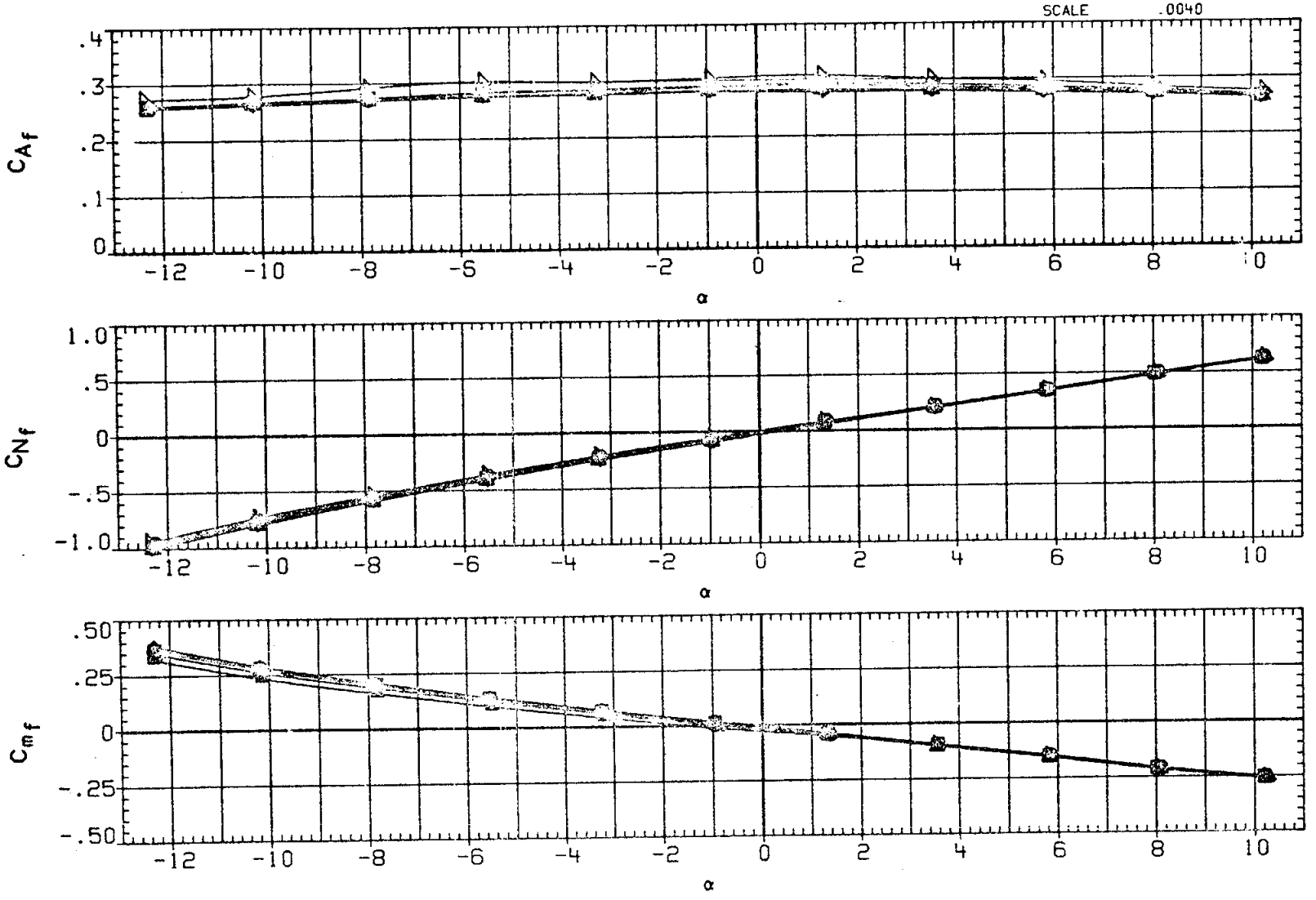


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

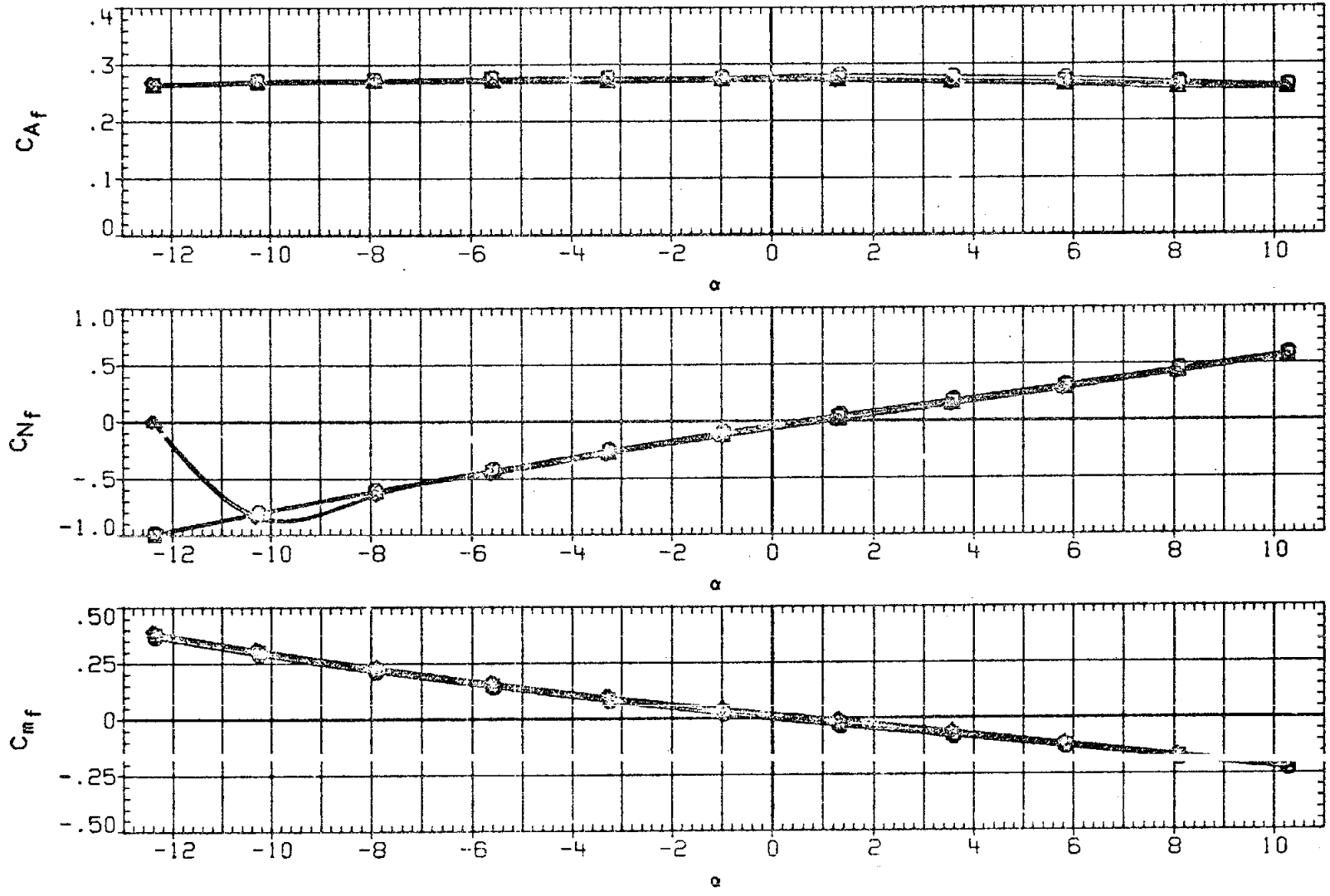


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

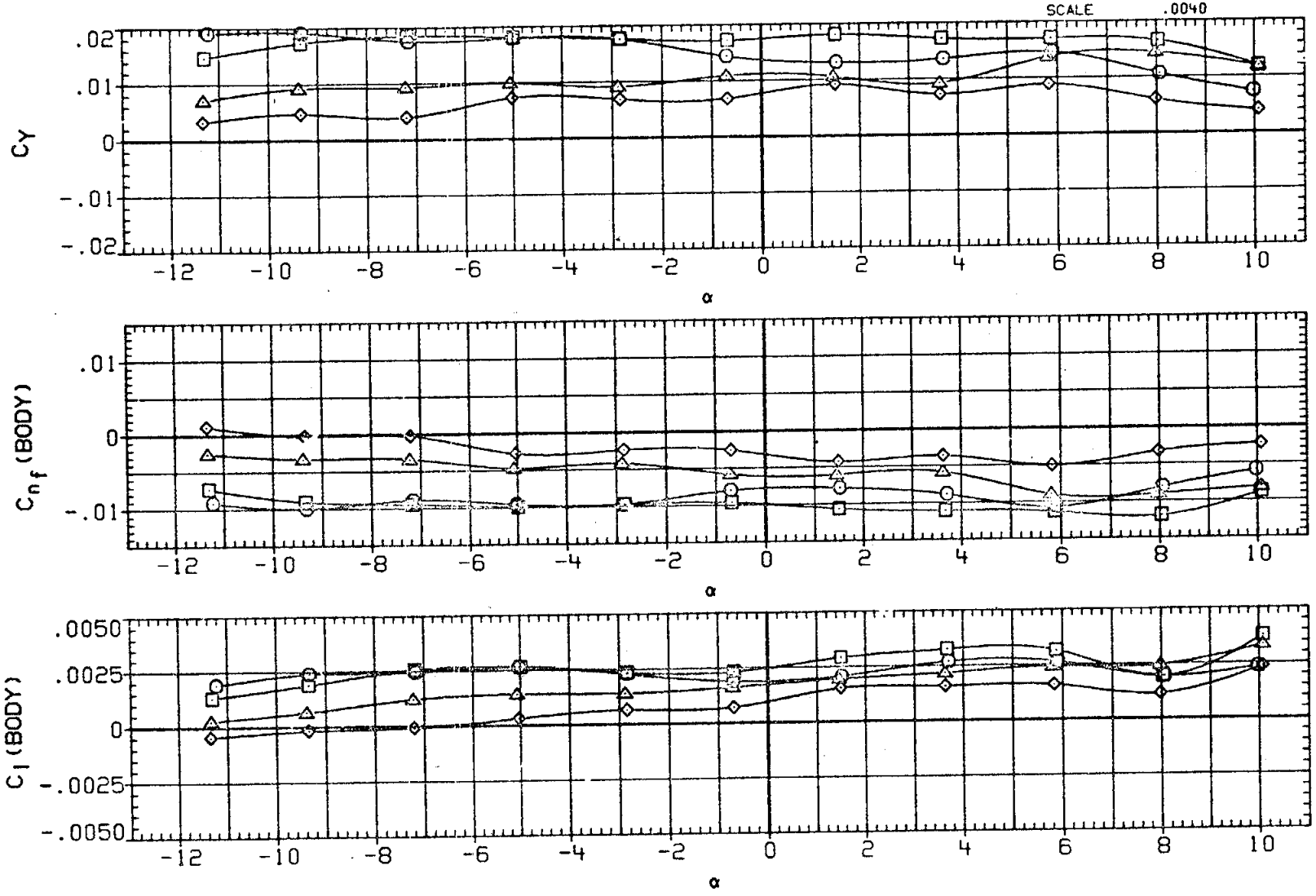


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION		BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) -	PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)-	PLUME OFF	.000	10.000	5.000	OFF
RA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)-	PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING -	PLUME OFF	.000	10.000	5.000	OFF
RA6009	◺	DATA NOT AVAILABLE		.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

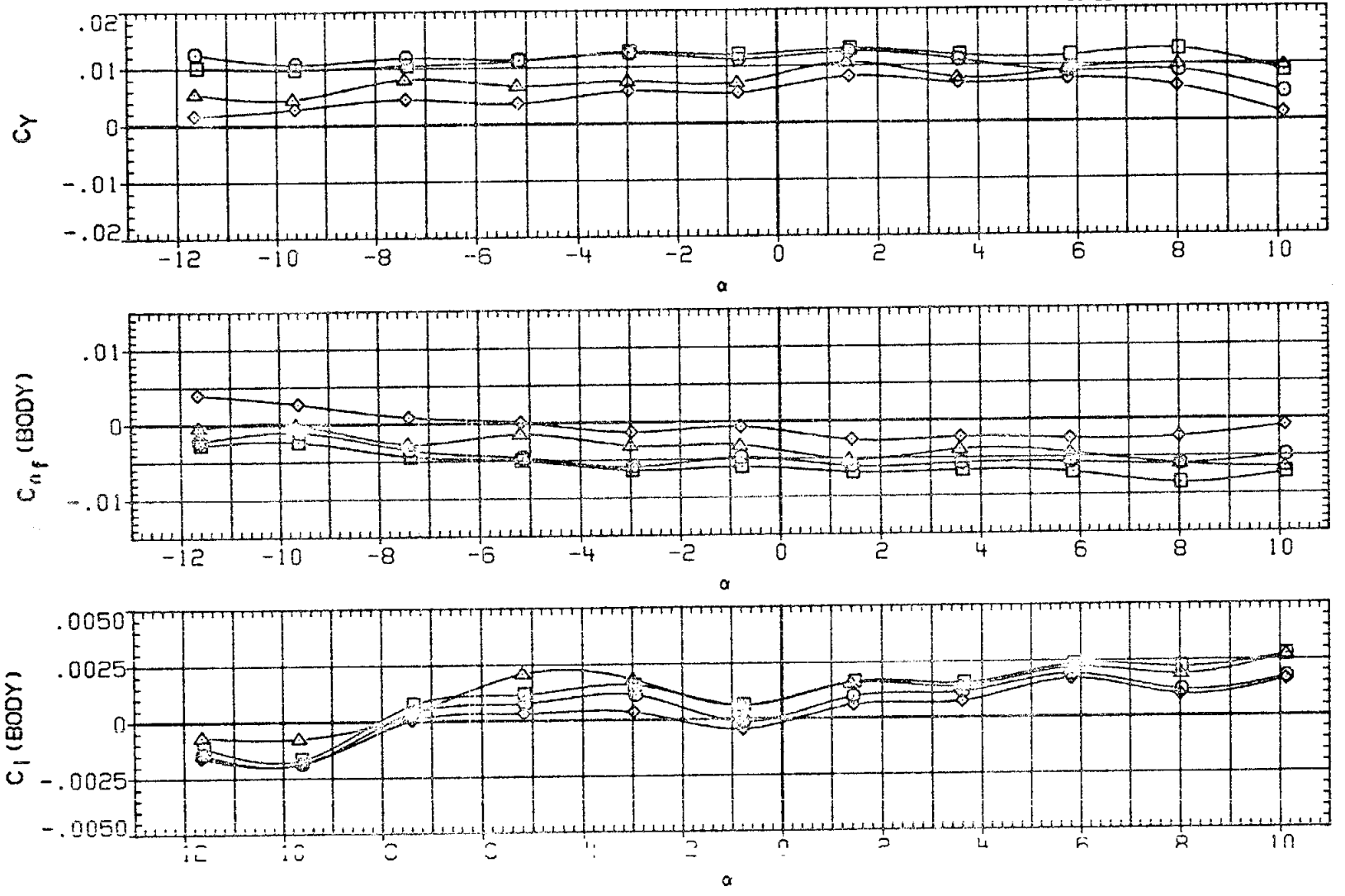


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

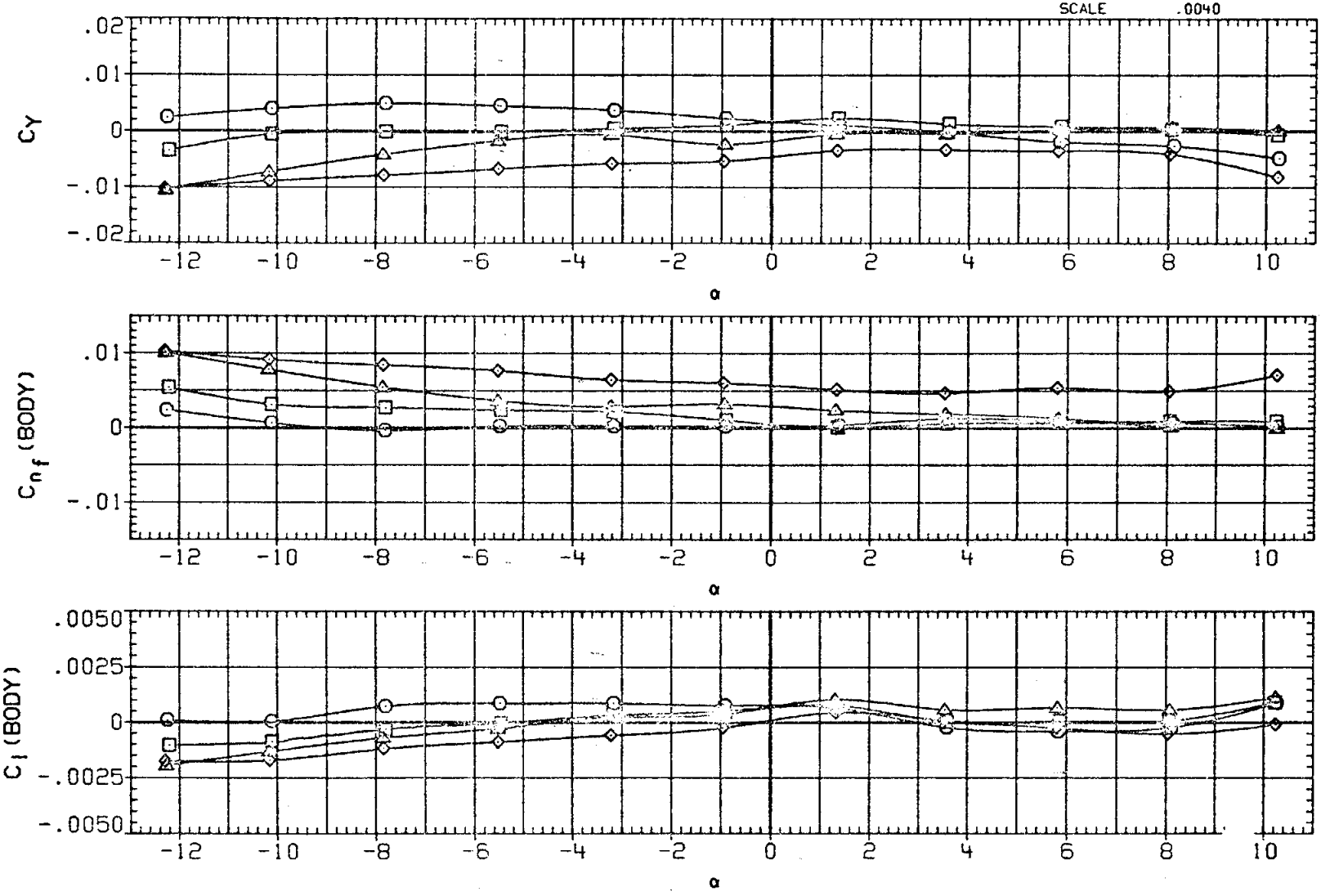


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6009	◺	MSFC TWT 692,OTS+WING FAIRING(POS.1) - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

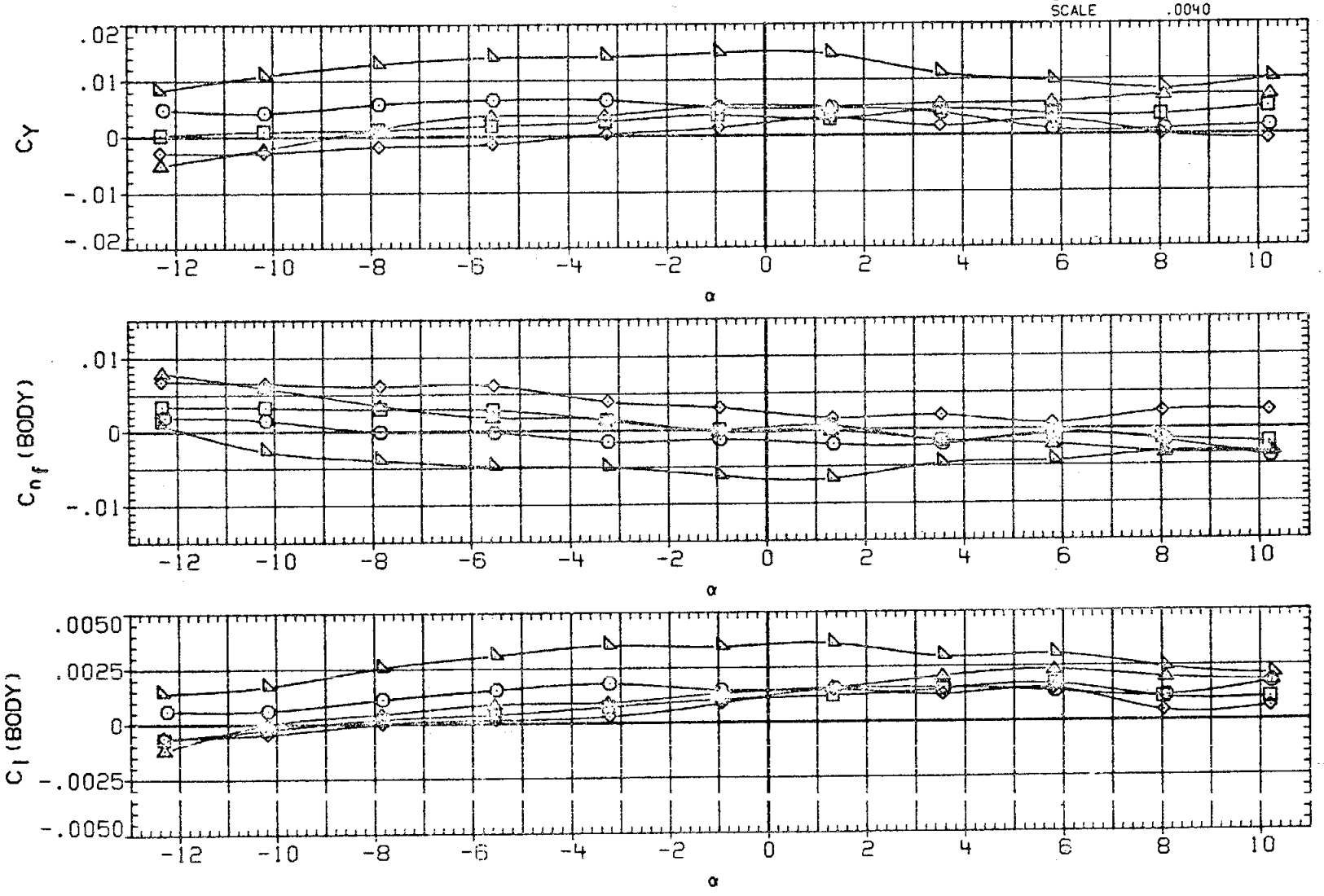


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(FOS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(FOS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OIS + LARGE FAIRING - - PLUME OFF	.000	10.000	5.000	OFF
RA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

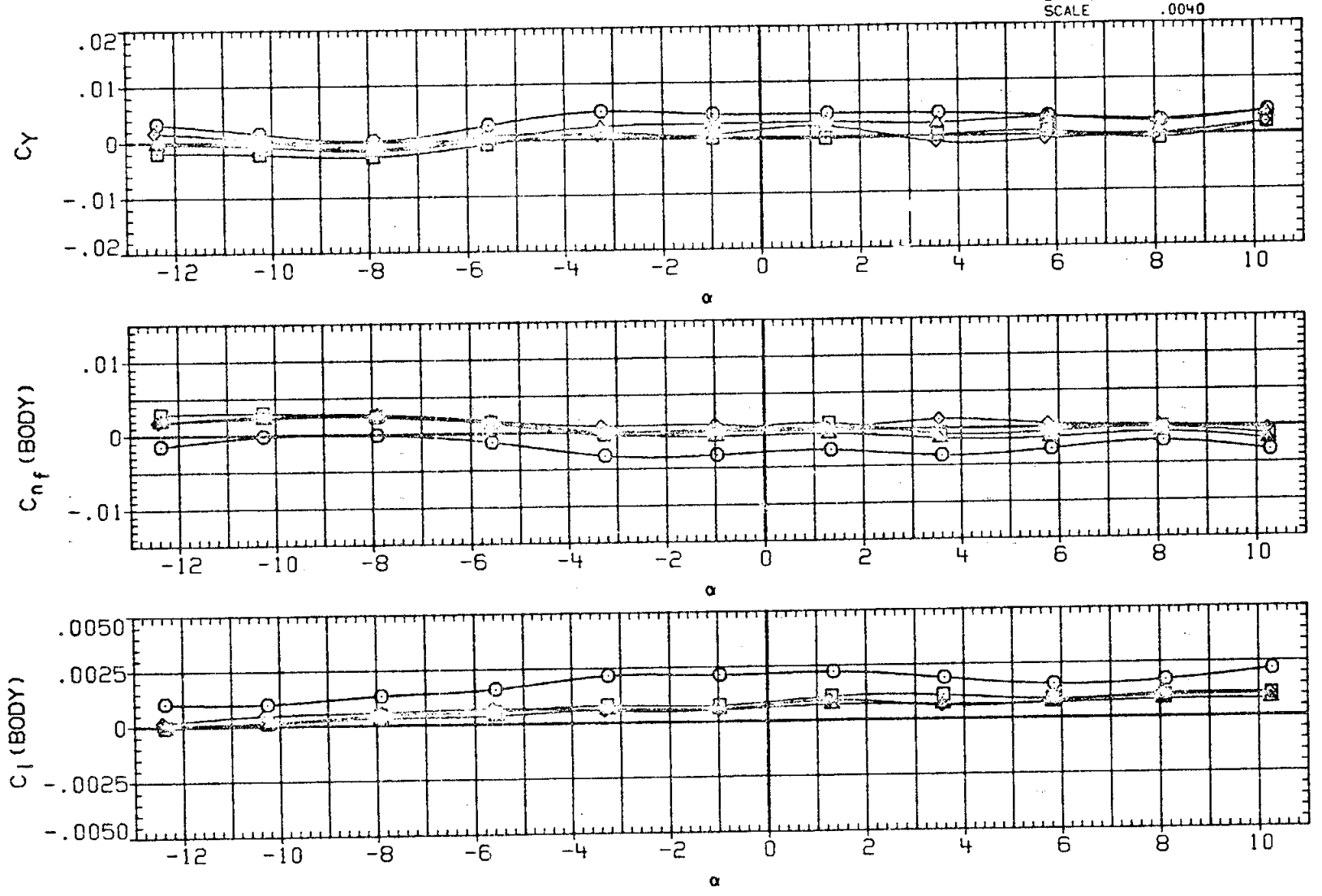


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

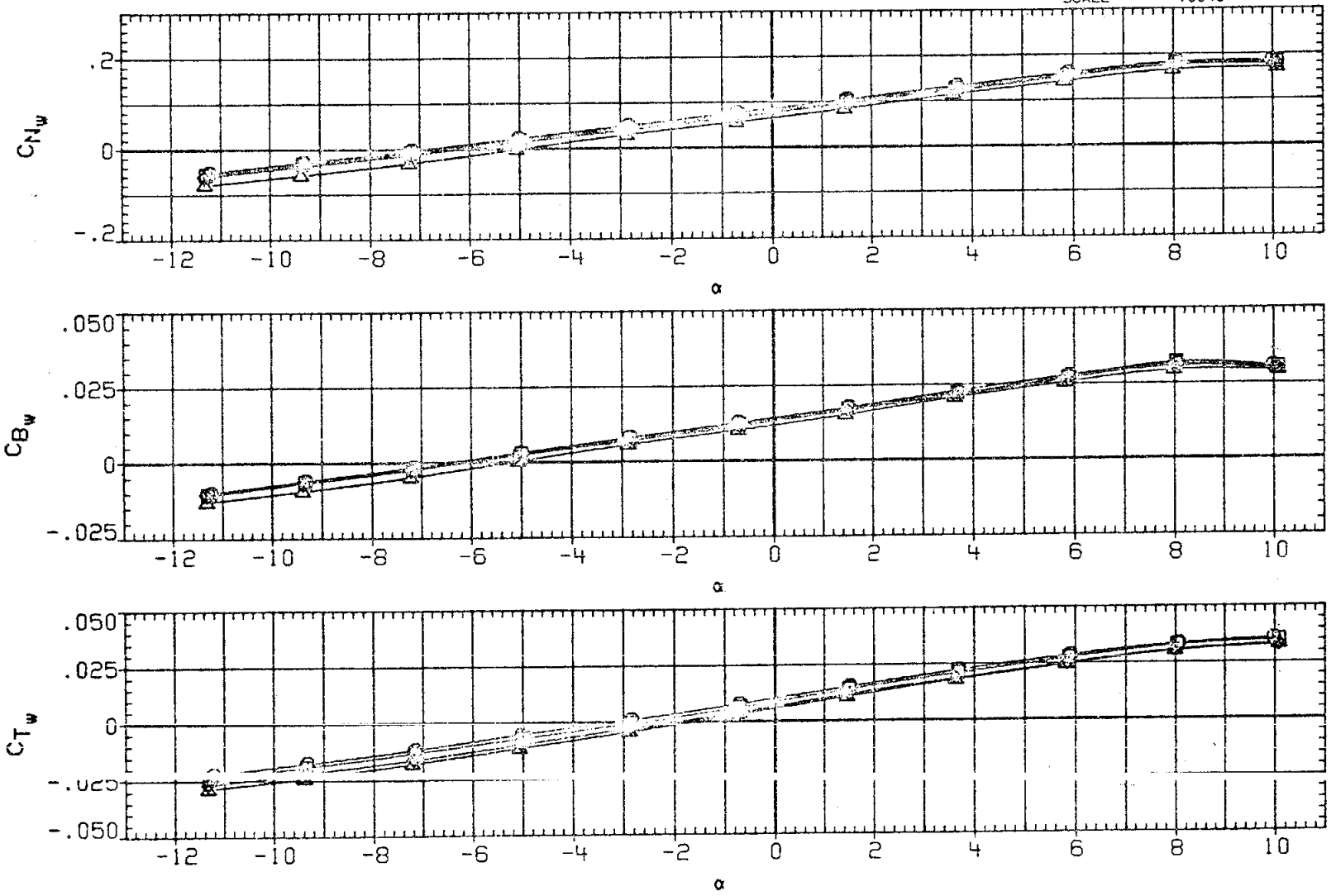


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

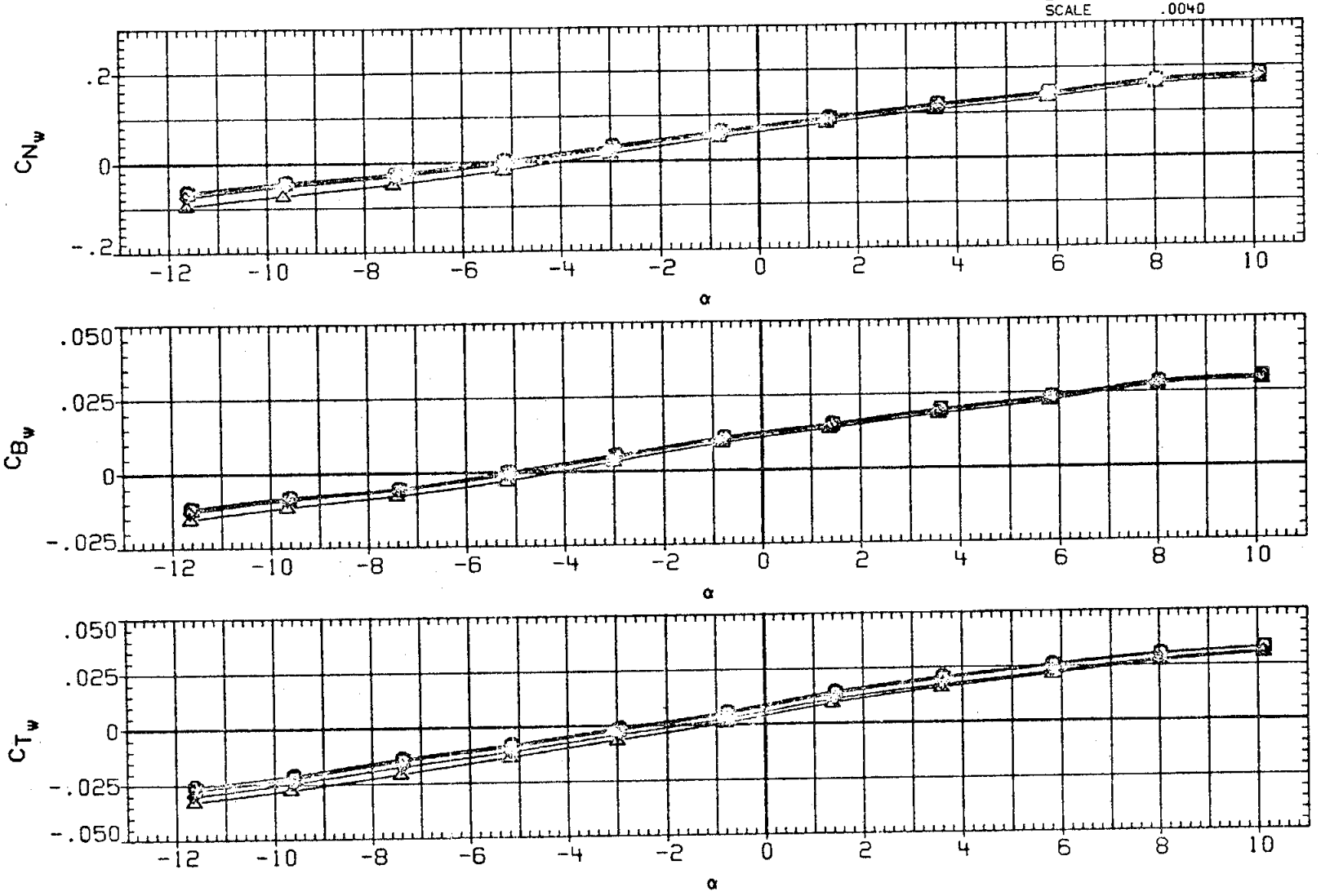


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

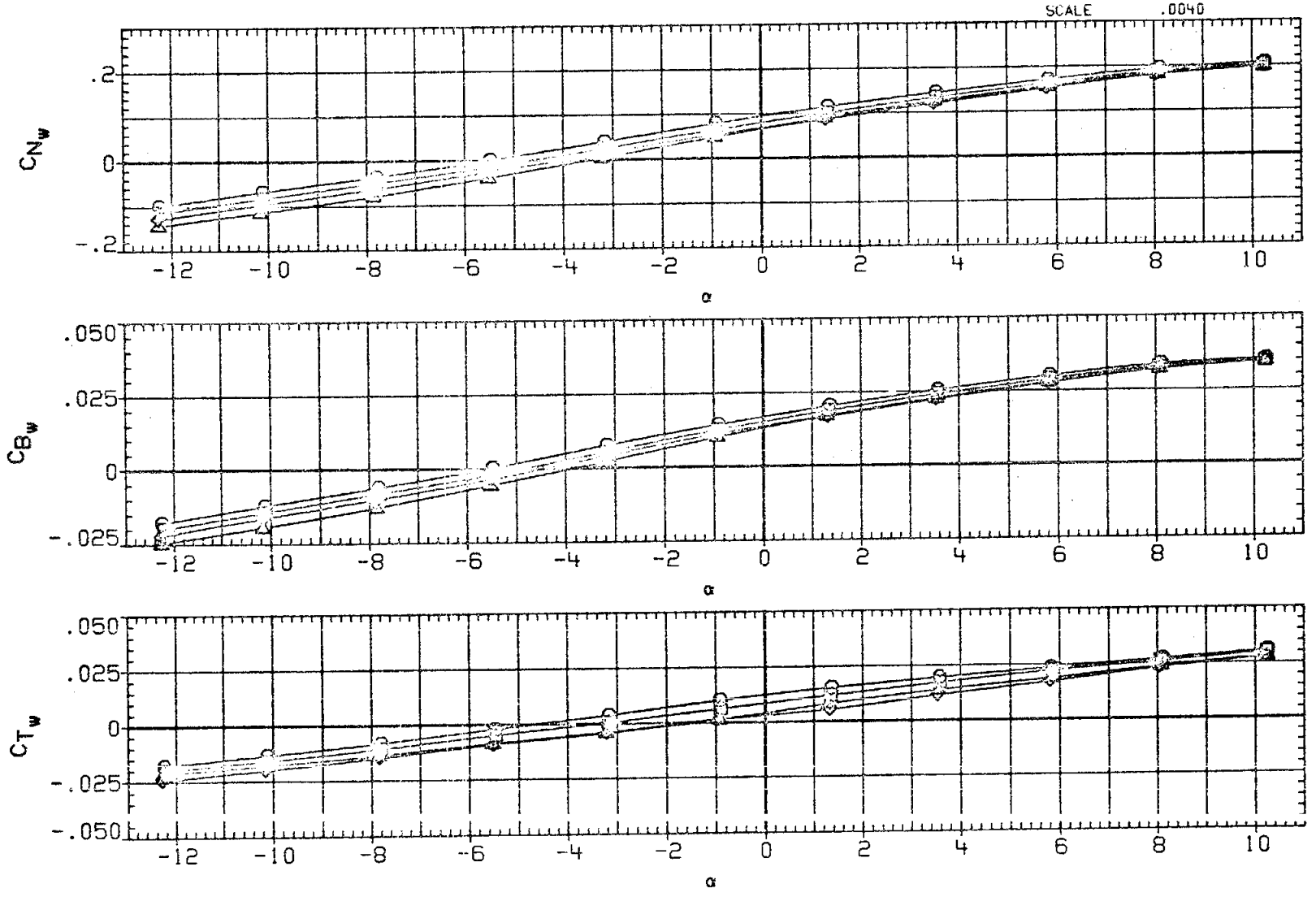


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6009	◺	MSFC TWT 692,OTS+WING FAIRING(POS.1) - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

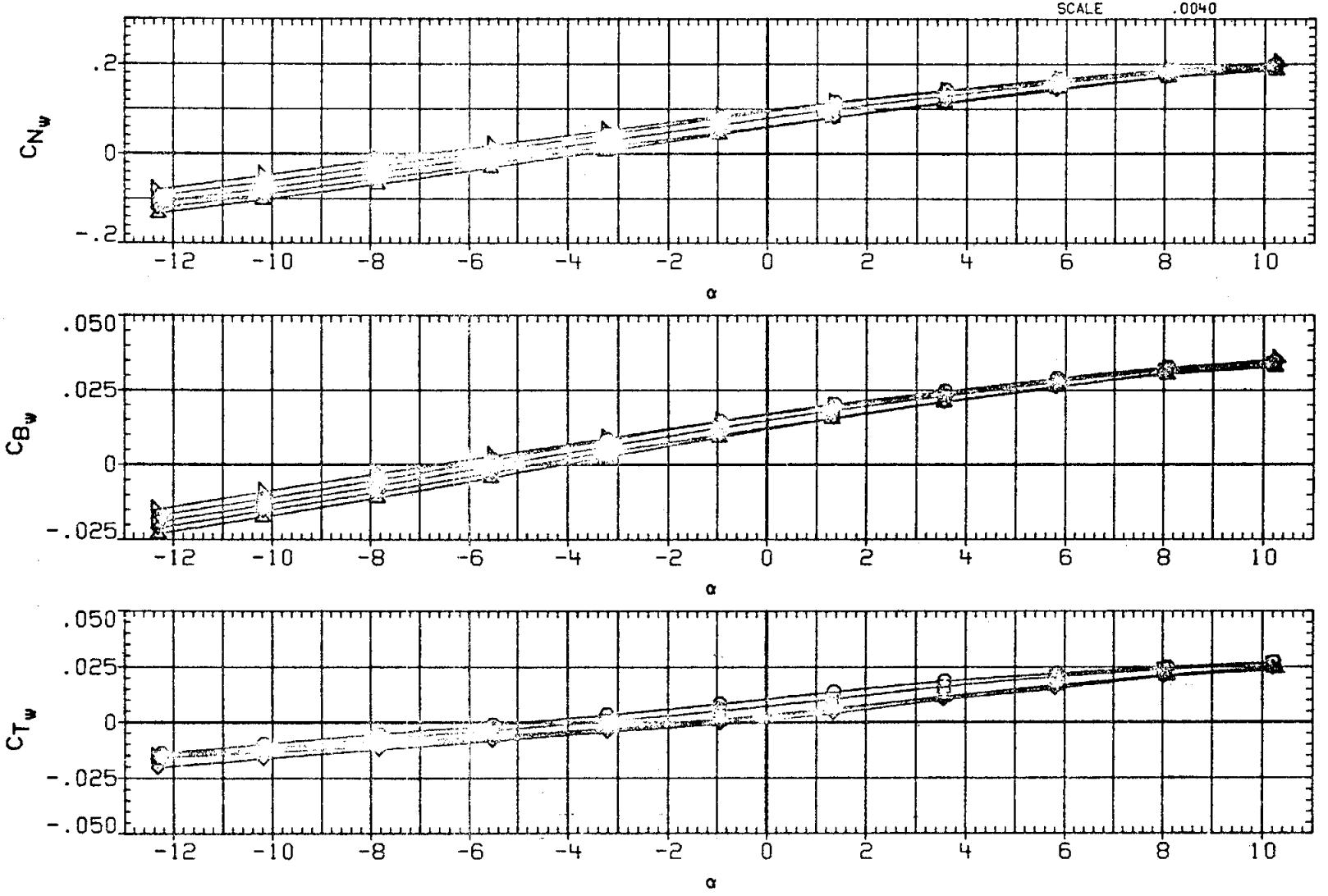


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6005	◇	MSFC TWT 692.OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

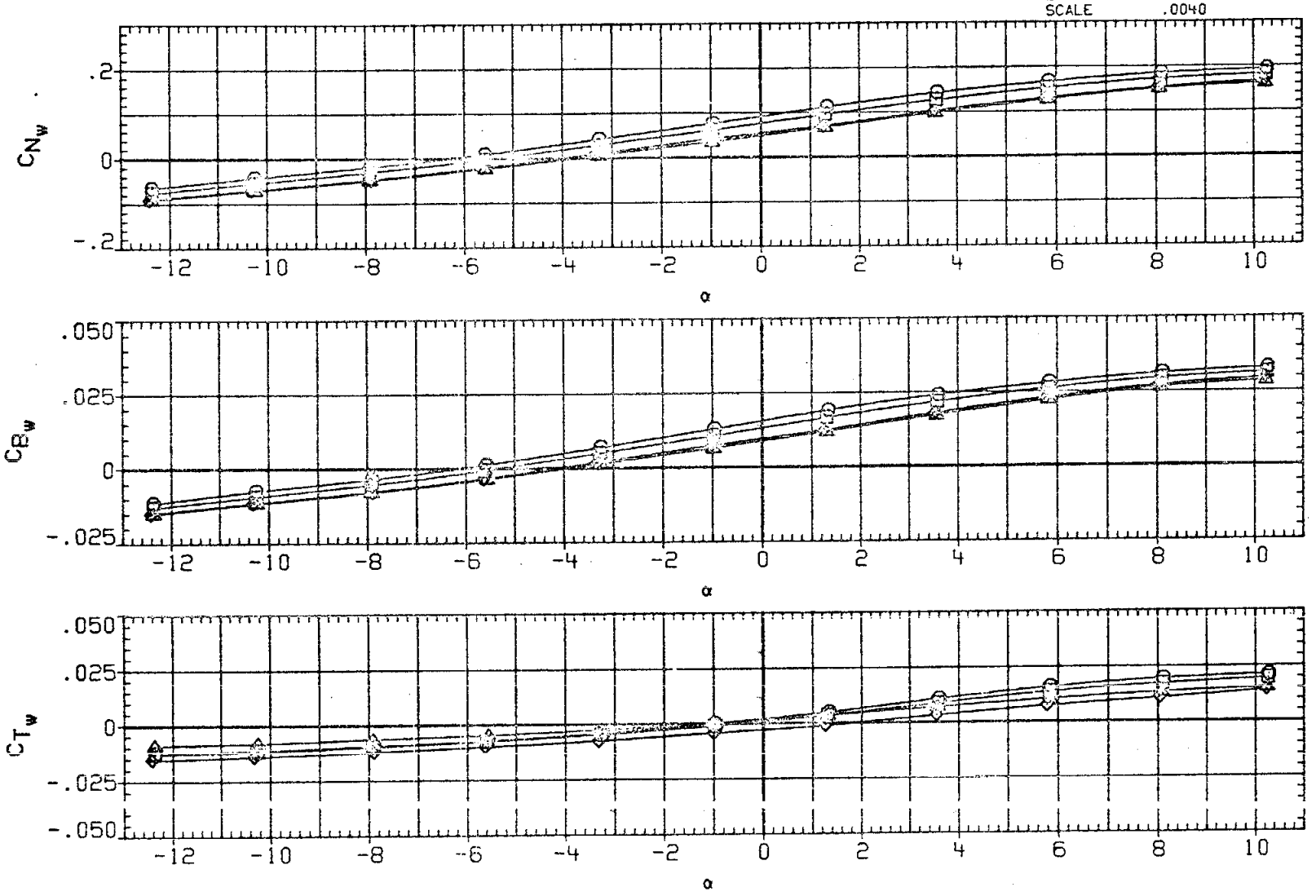


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

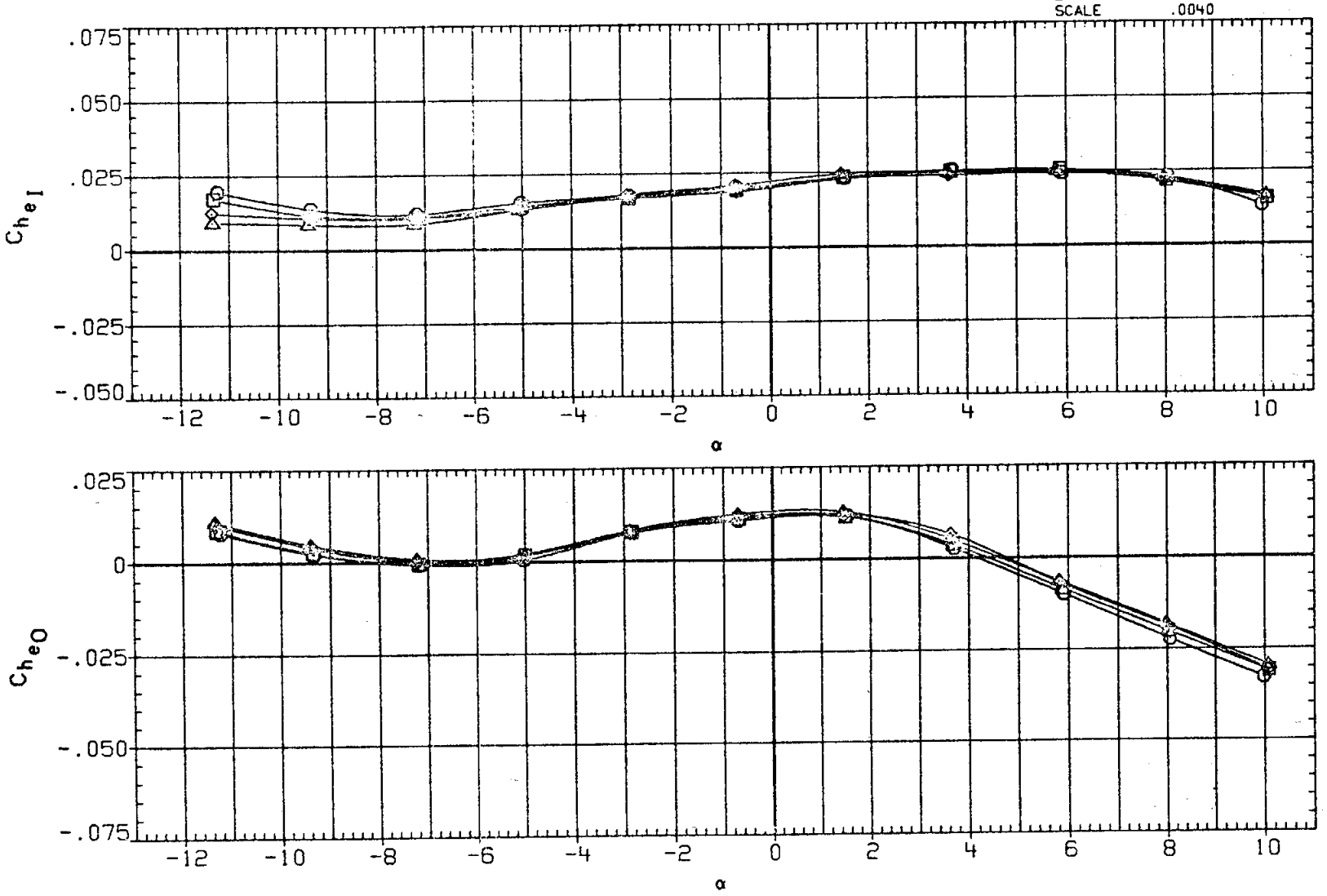


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A) MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6005	◇	MSFC TWT 692.OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

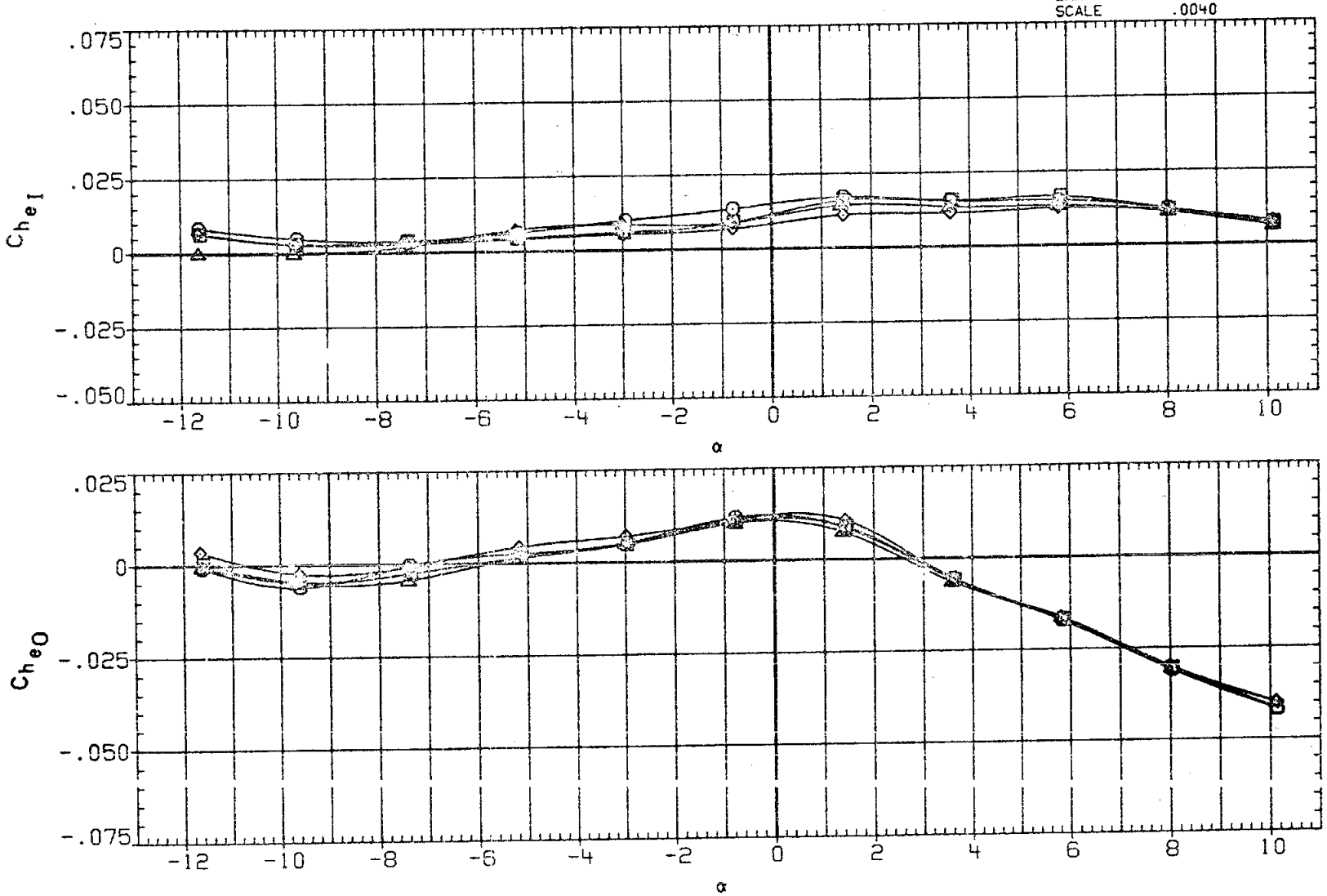


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

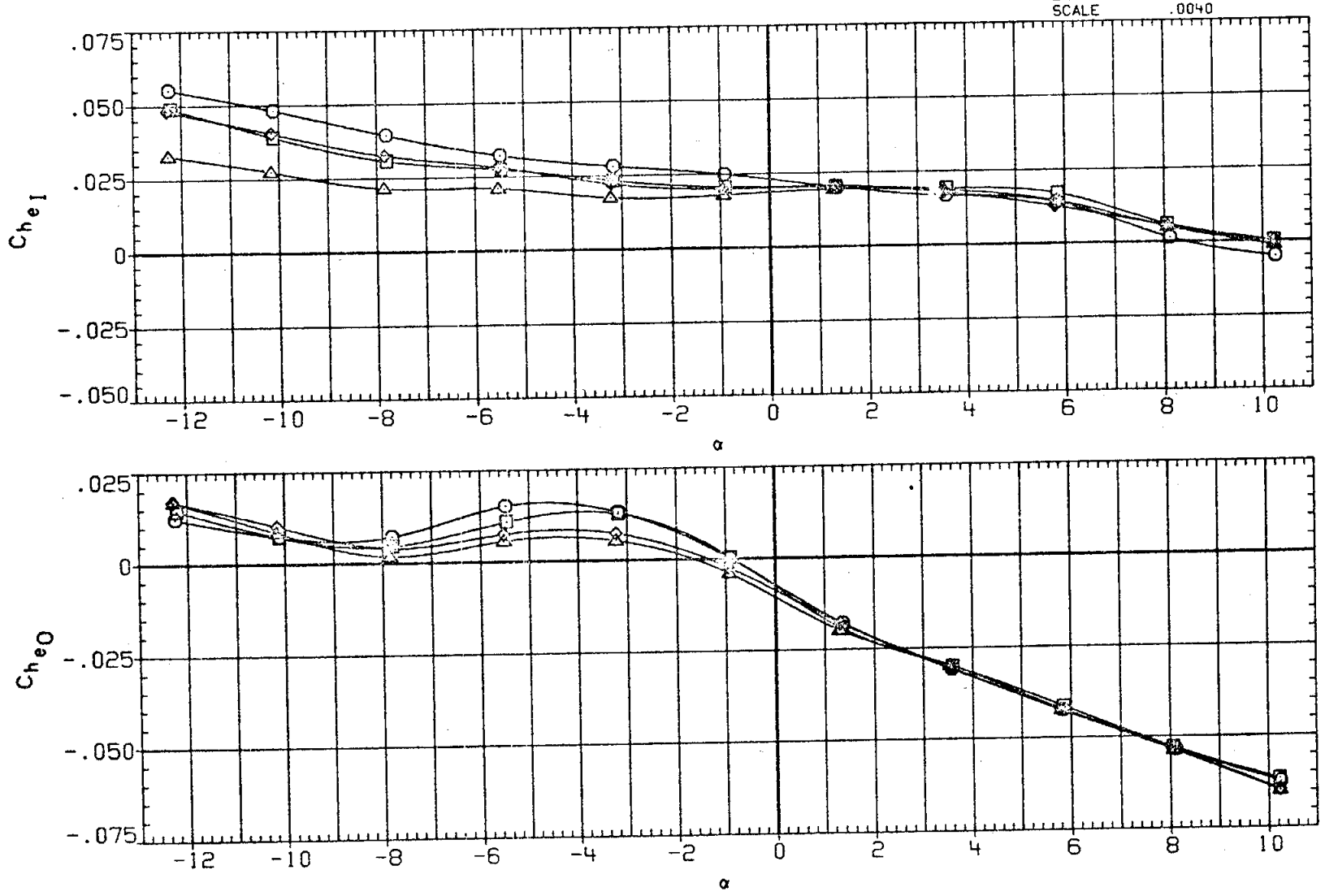


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6009	◁	MSFC TWT 692,OTS+WING FAIRING(POS.1) - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

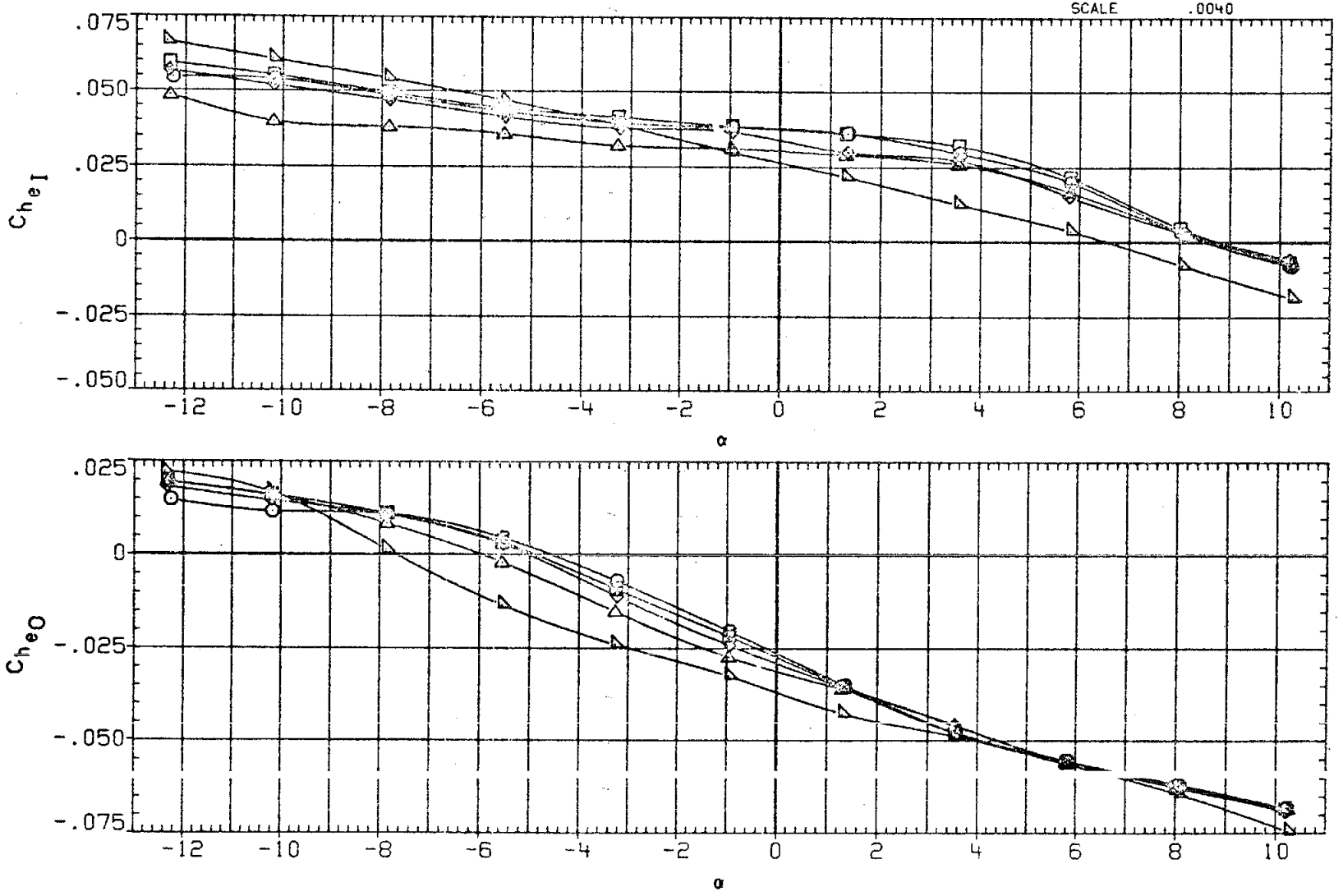


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6009	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

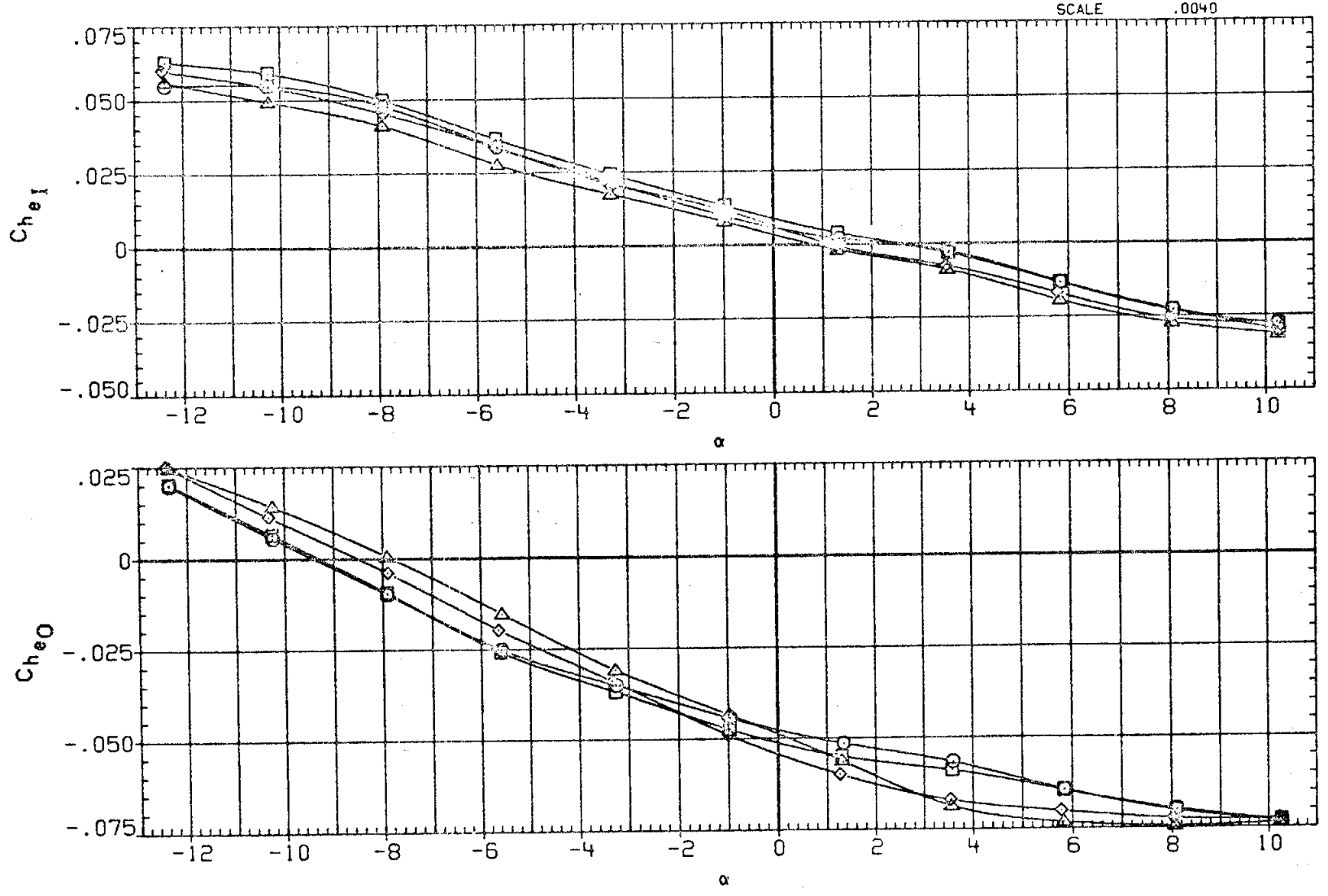


FIG. 1 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION		BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) -	PLUME OFF	.000	10.000	5.000	OFF
RA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)-	PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)-	PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING -	PLUME OFF	.000	10.000	5.000	OFF
RA6010	◺	DATA NOT AVAILABLE		.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

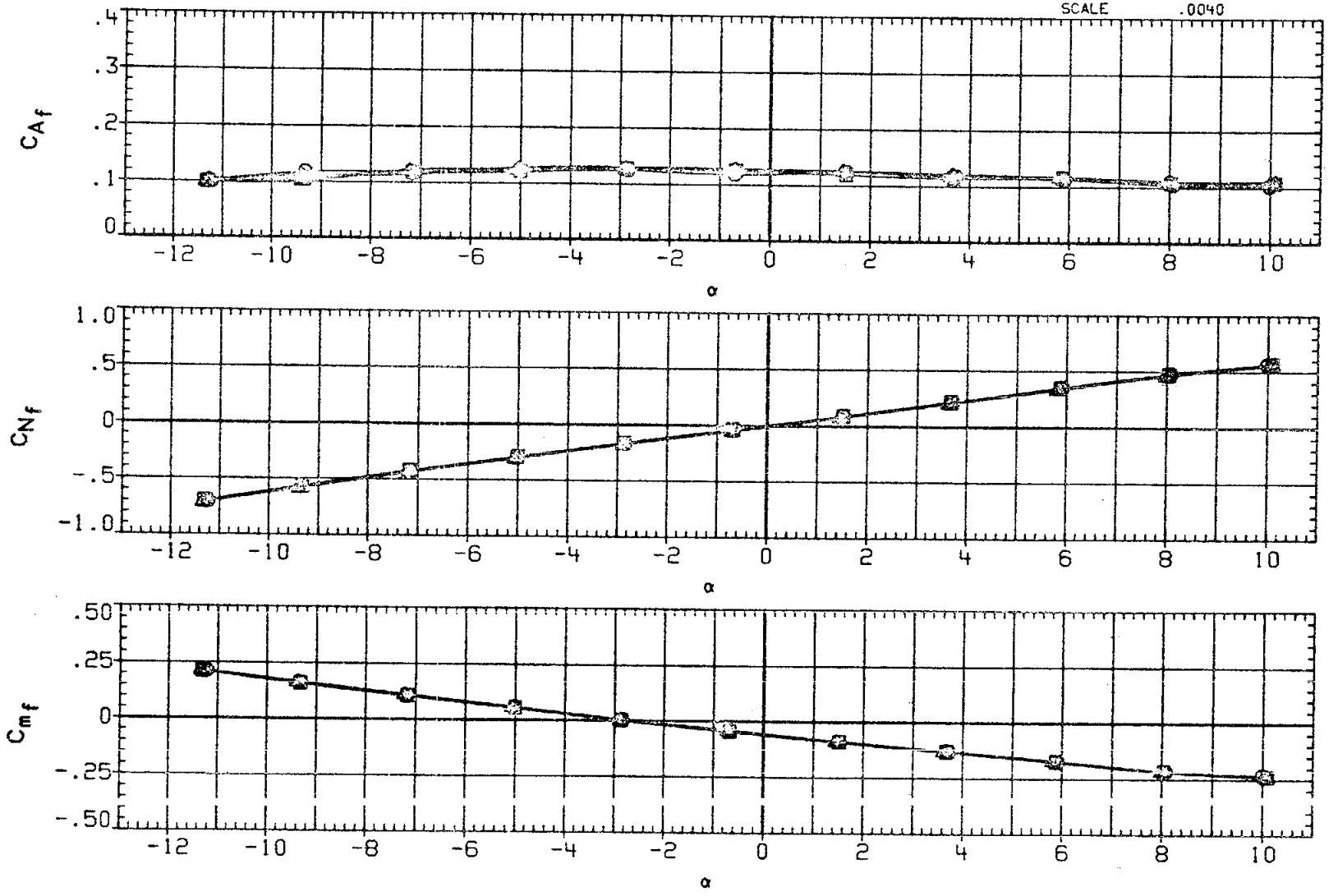


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION		BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) -	PLUME OFF	.000	10.000	5.000	OFF
RA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)-	PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)-	PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING -	PLUME OFF	.000	10.000	5.000	OFF
RA5010	▷	DATA NOT AVAILABLE		.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

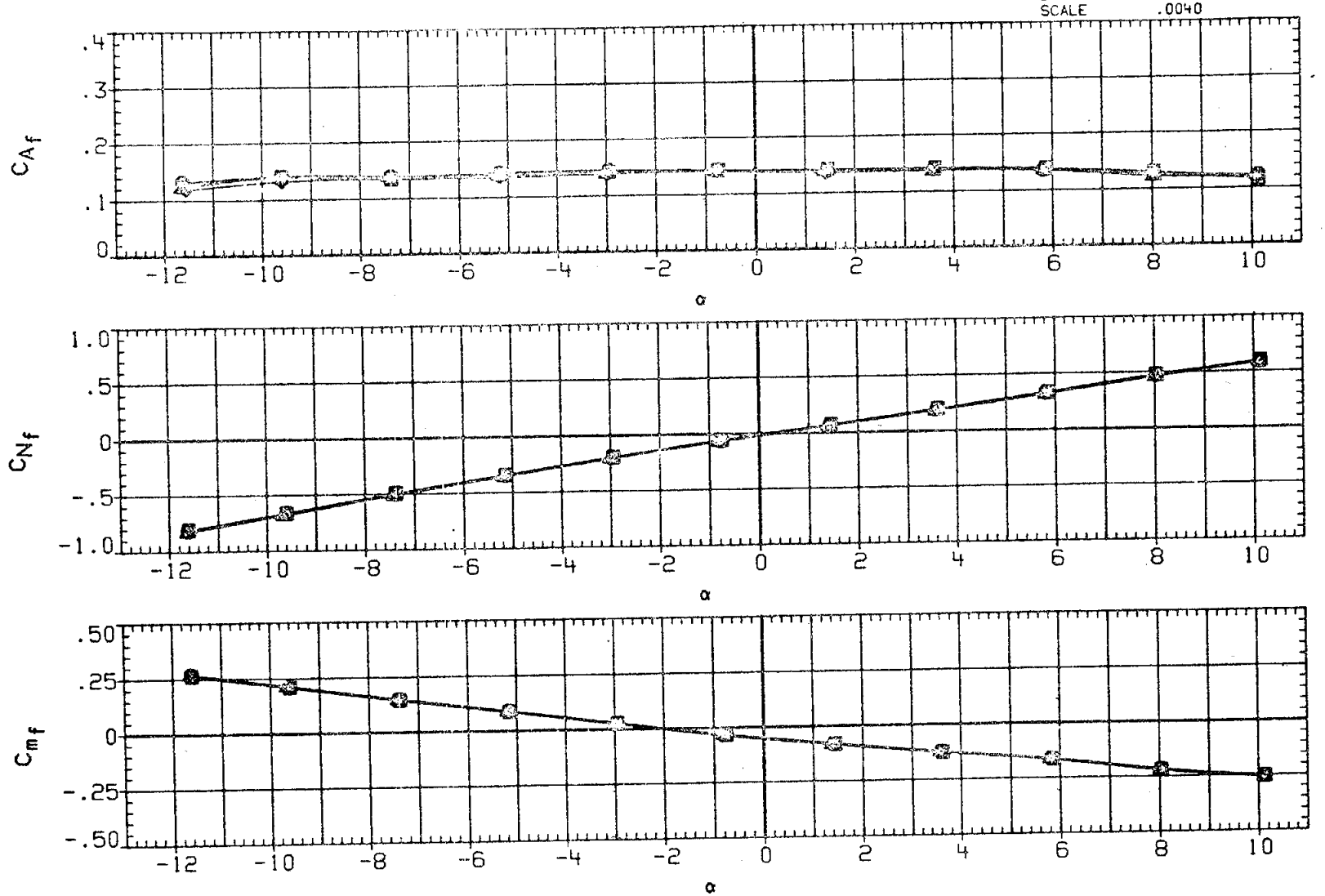


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6010	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

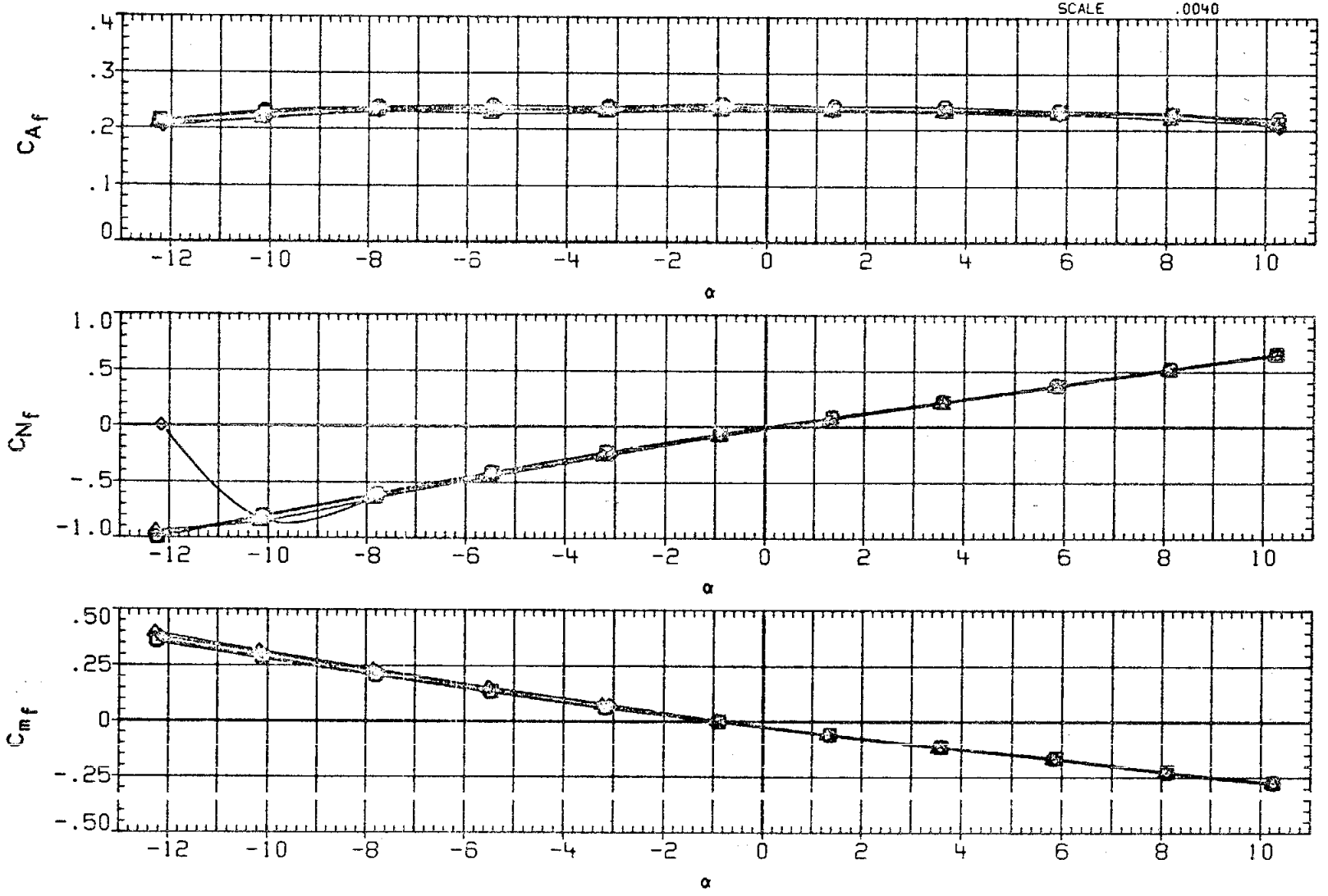


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6010	◺	MSFC TWT 692,OTS+WING FAIRING(POS.2) - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

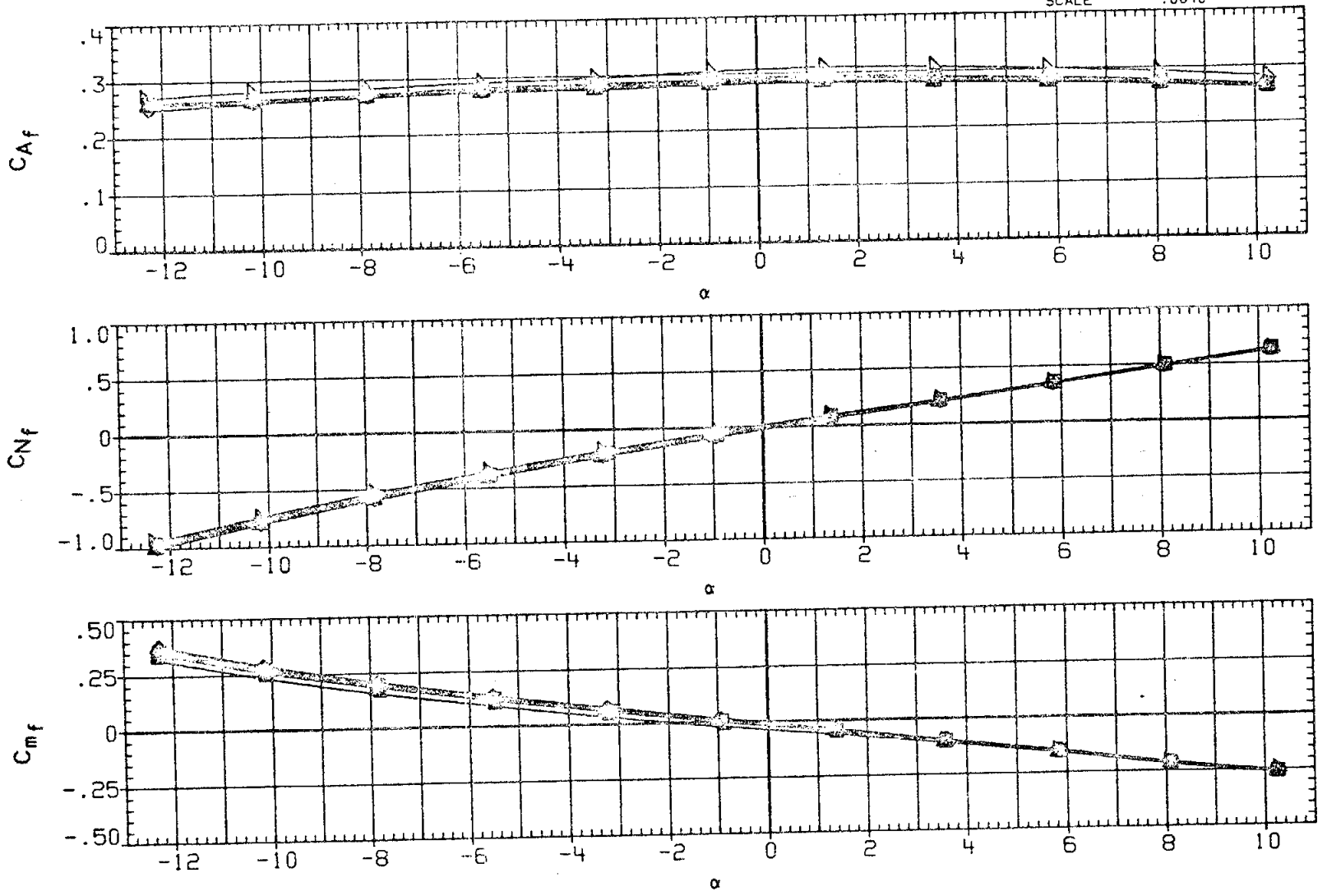


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6010	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

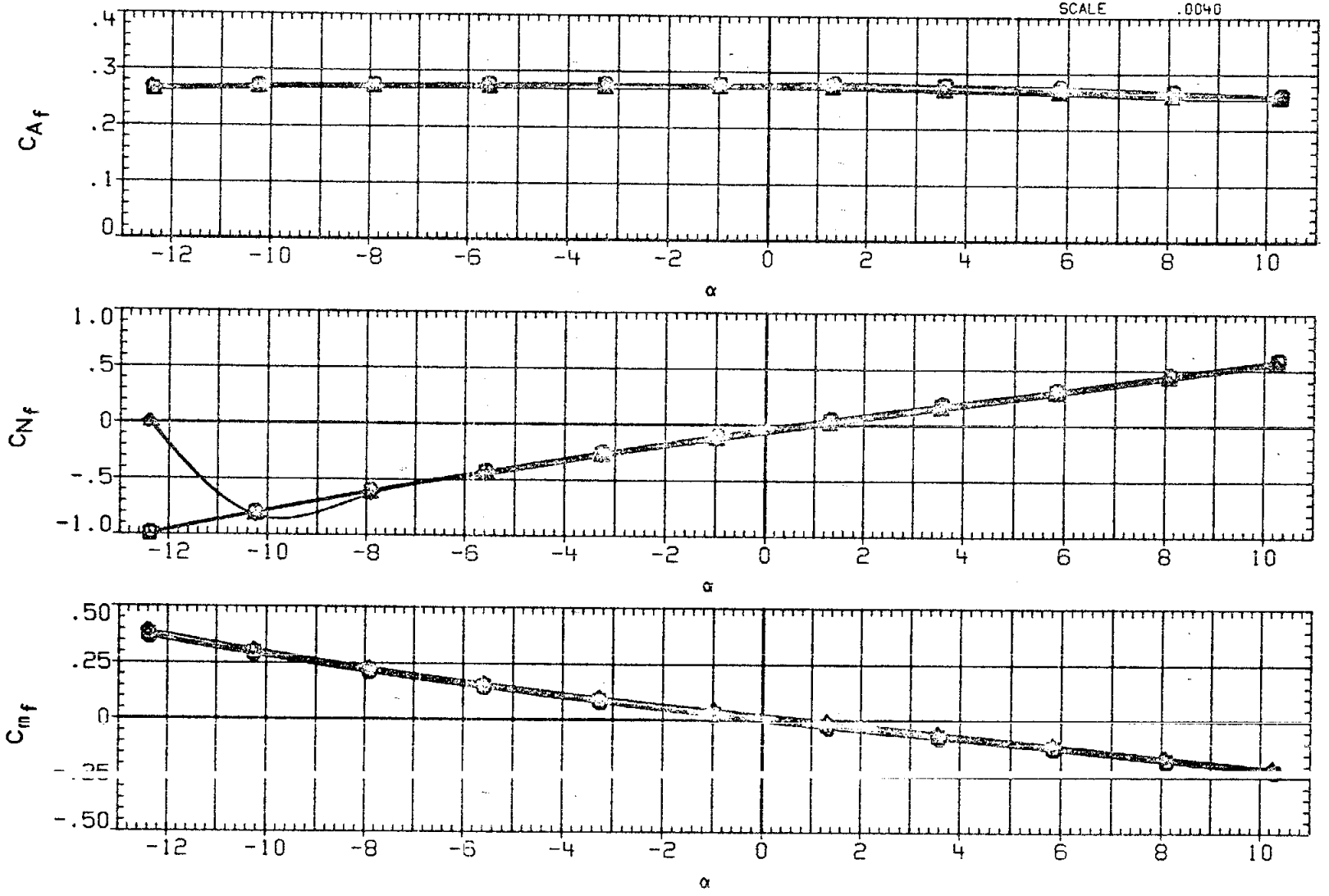


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6010	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

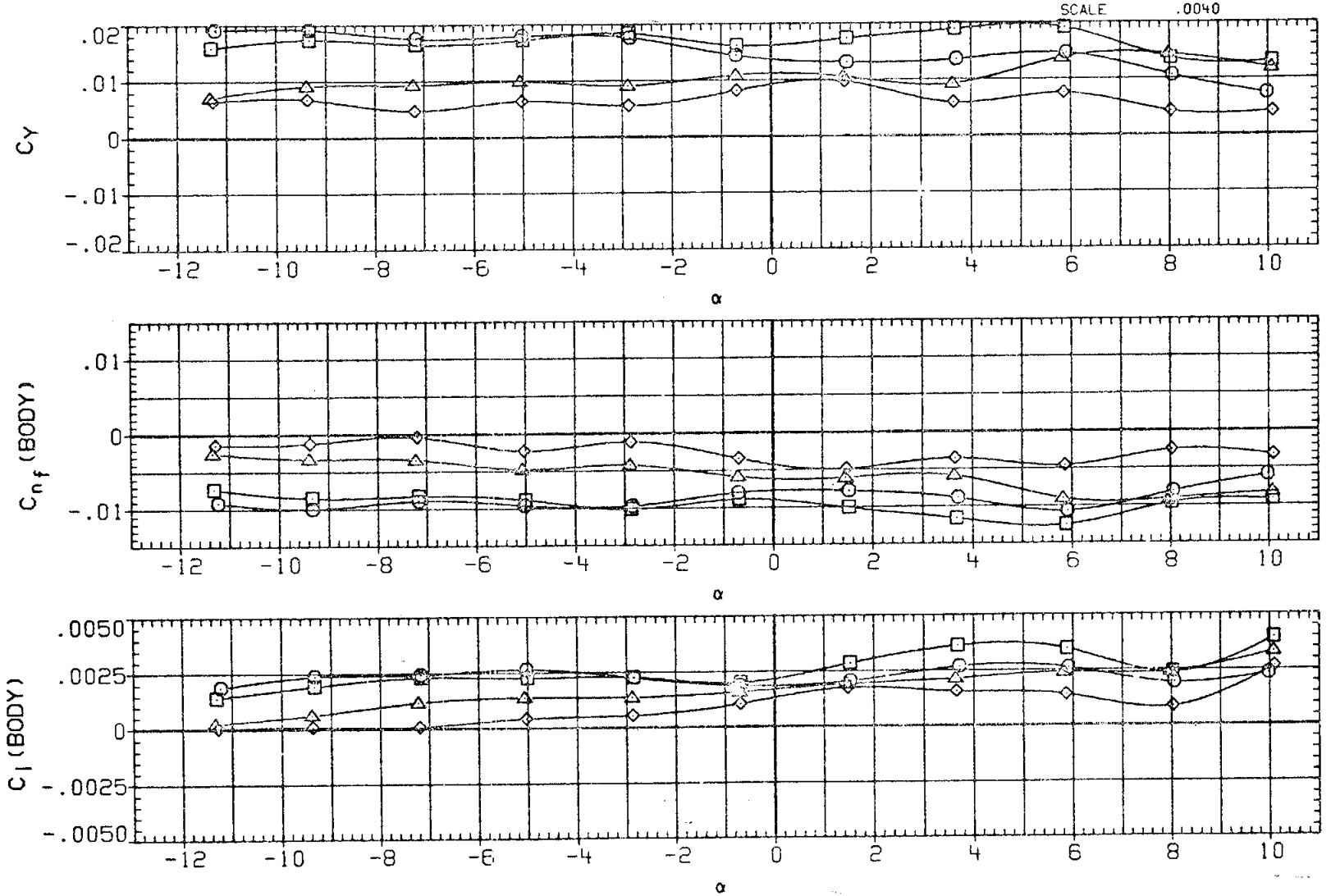


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6010	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

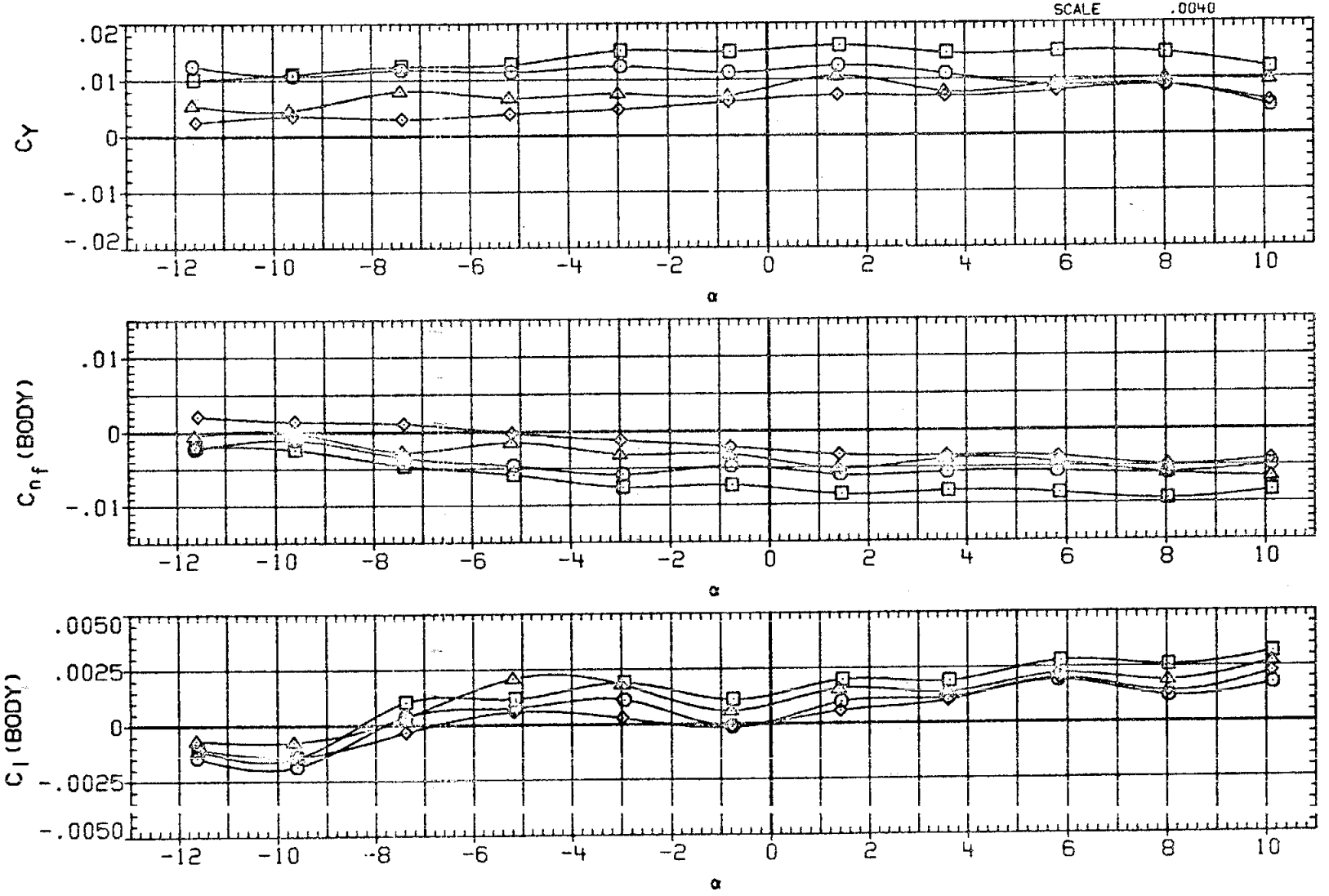


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(B) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6010	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

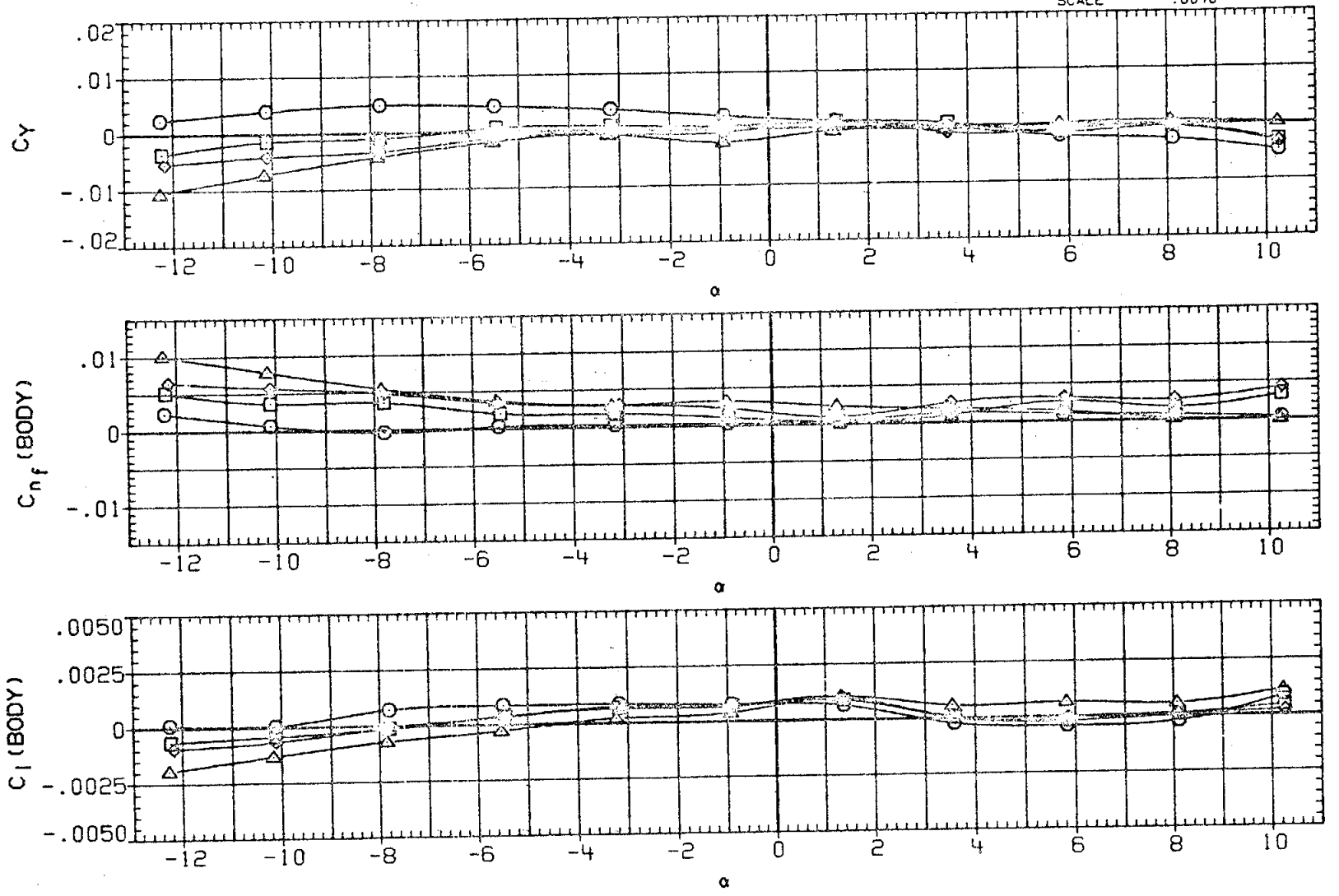


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6010	◺	MSFC TWT 692,OTS+WING FAIRING(POS.2) - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

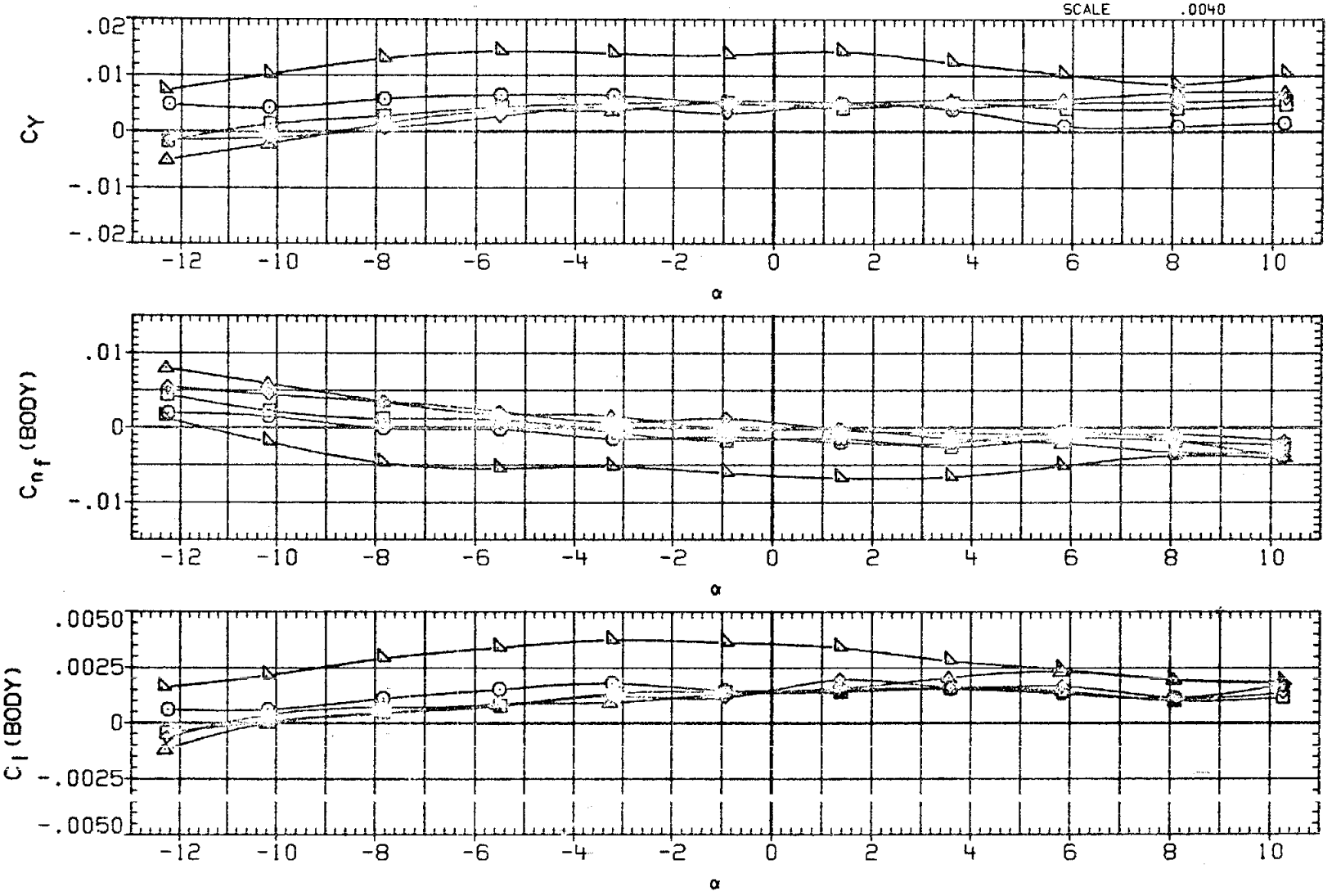


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
RA6010	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

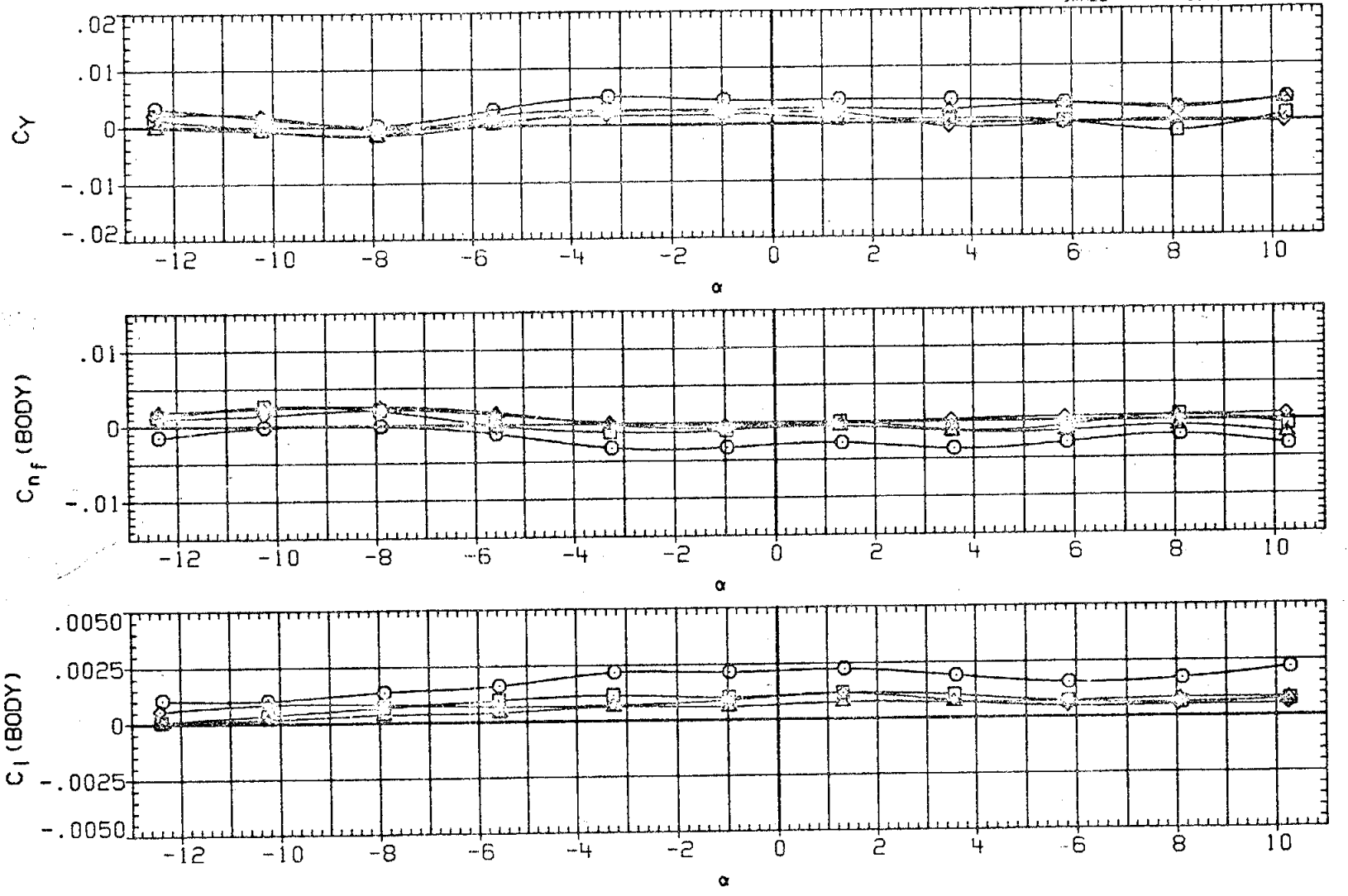


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6010	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

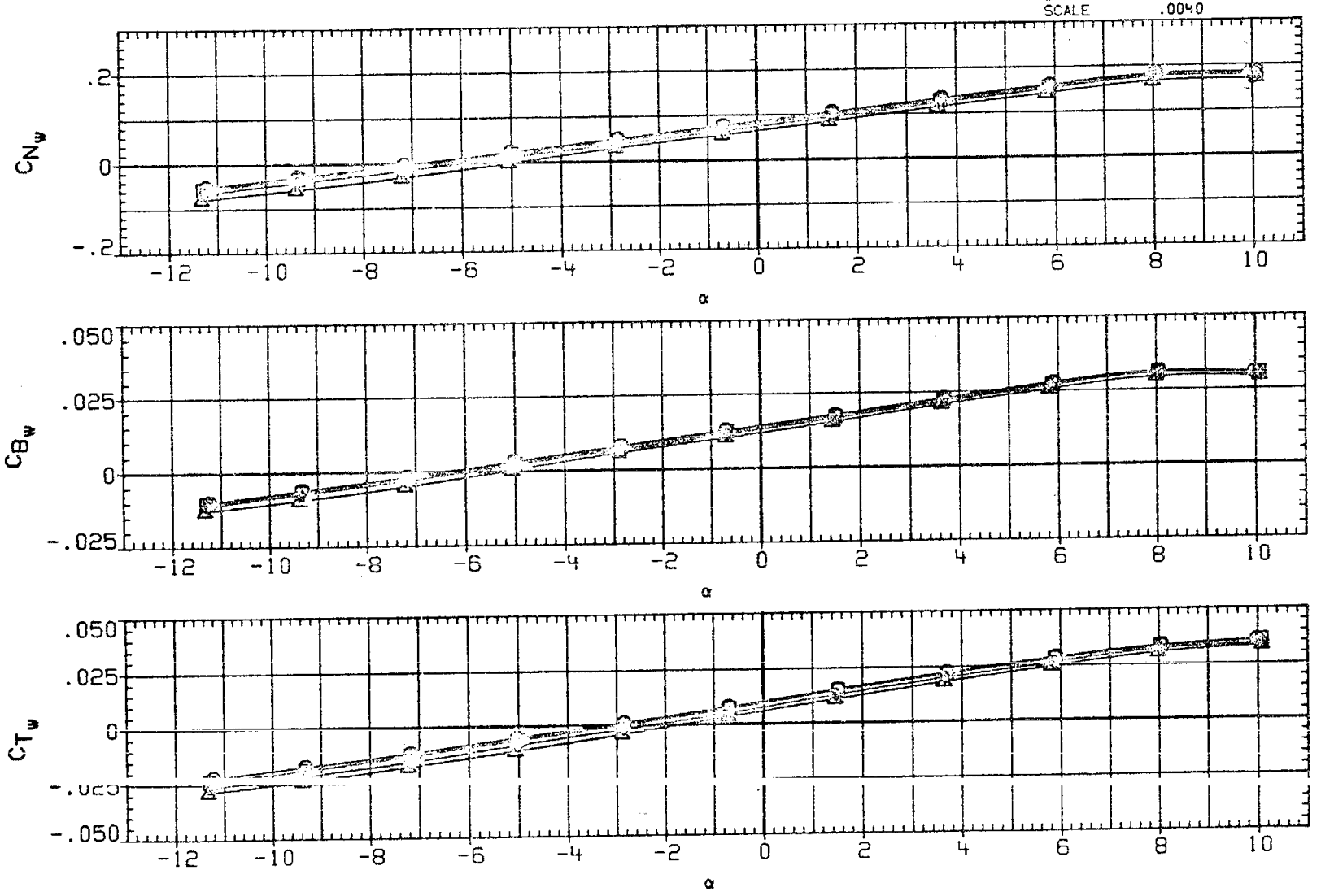


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A) MACH = .80

DATA SET	SYMBOL	CONFIGURATION		BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) -	PLUME OFF	.000	10.000	5.000	OFF
TA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)-	PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)-	PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING -	PLUME OFF	.000	10.000	5.000	OFF
TA6010	◺	DATA NOT AVAILABLE					

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

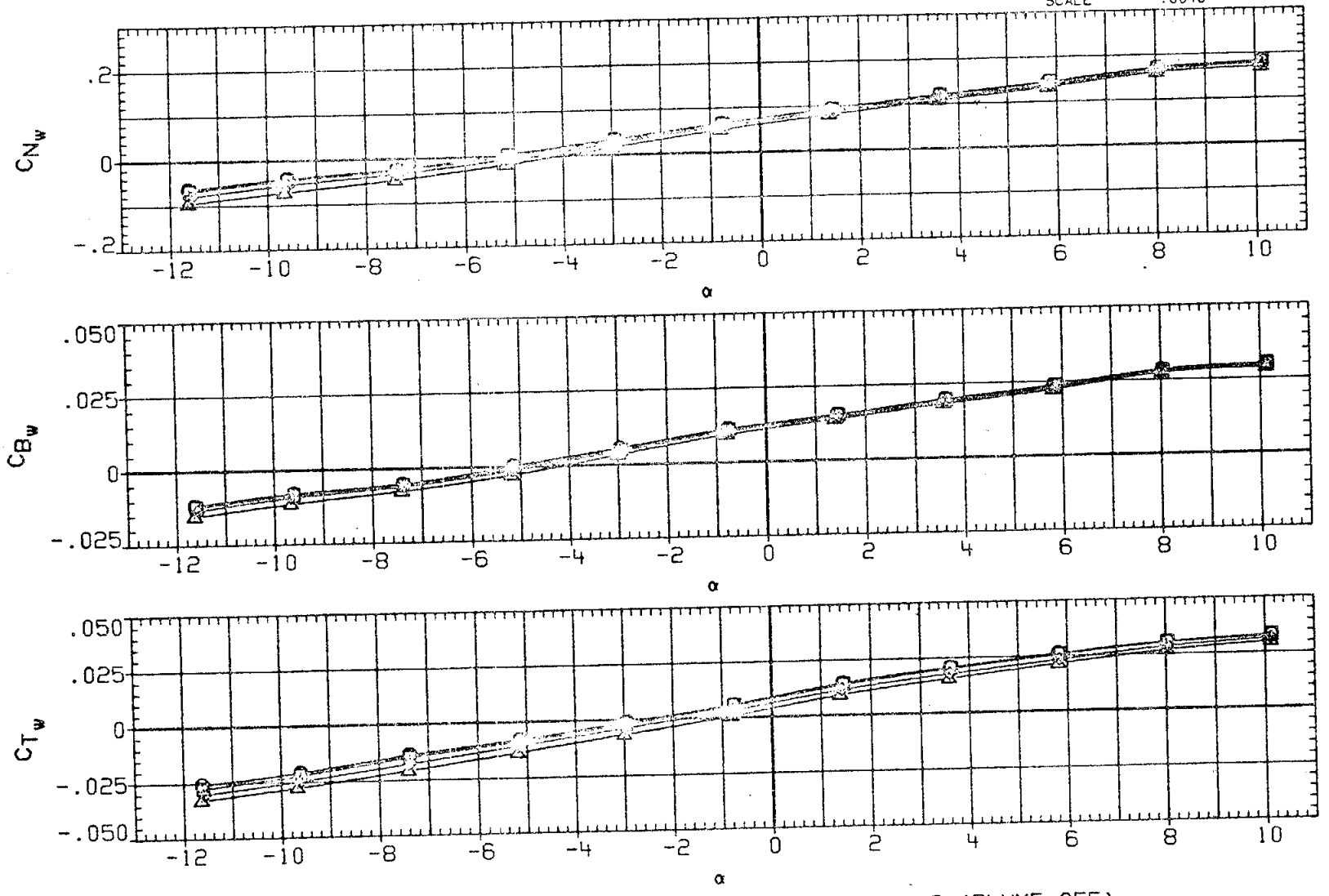


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION		BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) -	PLUME OFF	.000	10.000	5.000	OFF
TA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)-	PLUME OFF	.000	10.000	5.000	OFF
TA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)-	PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING -	PLUME OFF	.000	10.000	5.000	OFF
TA6010	◺	DATA NOT AVAILABLE		.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

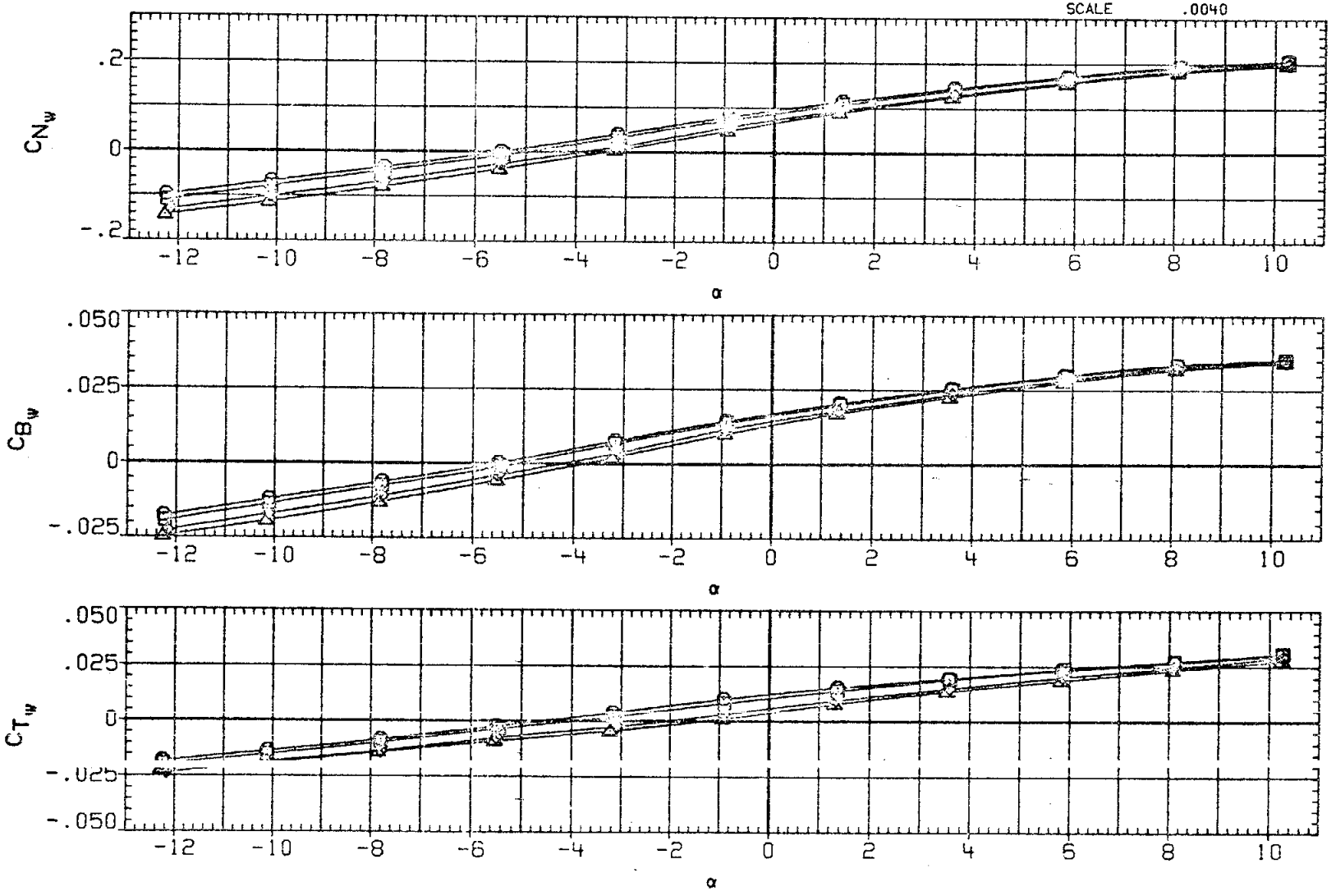


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6010	◺	MSFC TWT 692,OTS+WING FAIRING(POS.2) - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

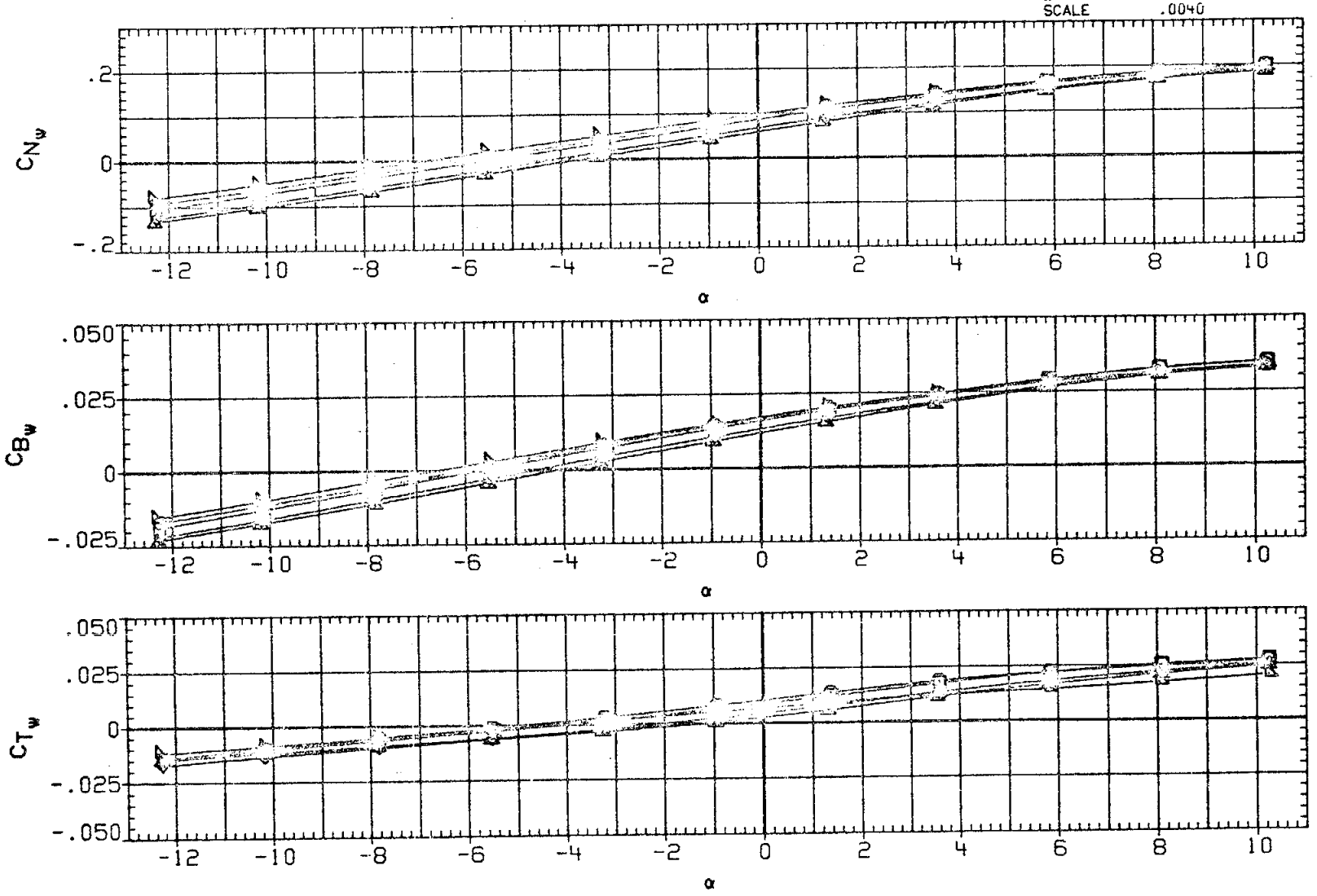


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6010	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

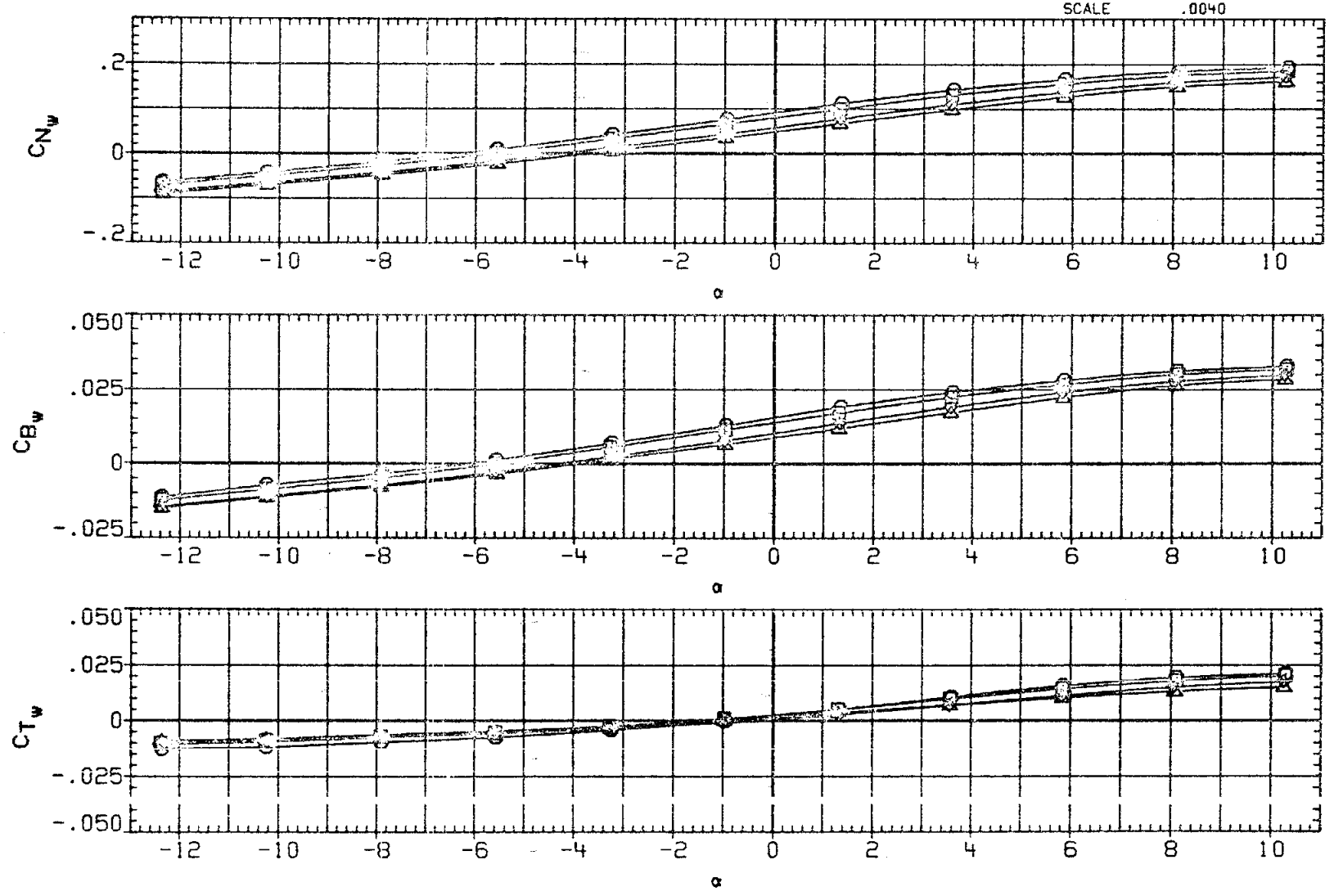


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6010	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

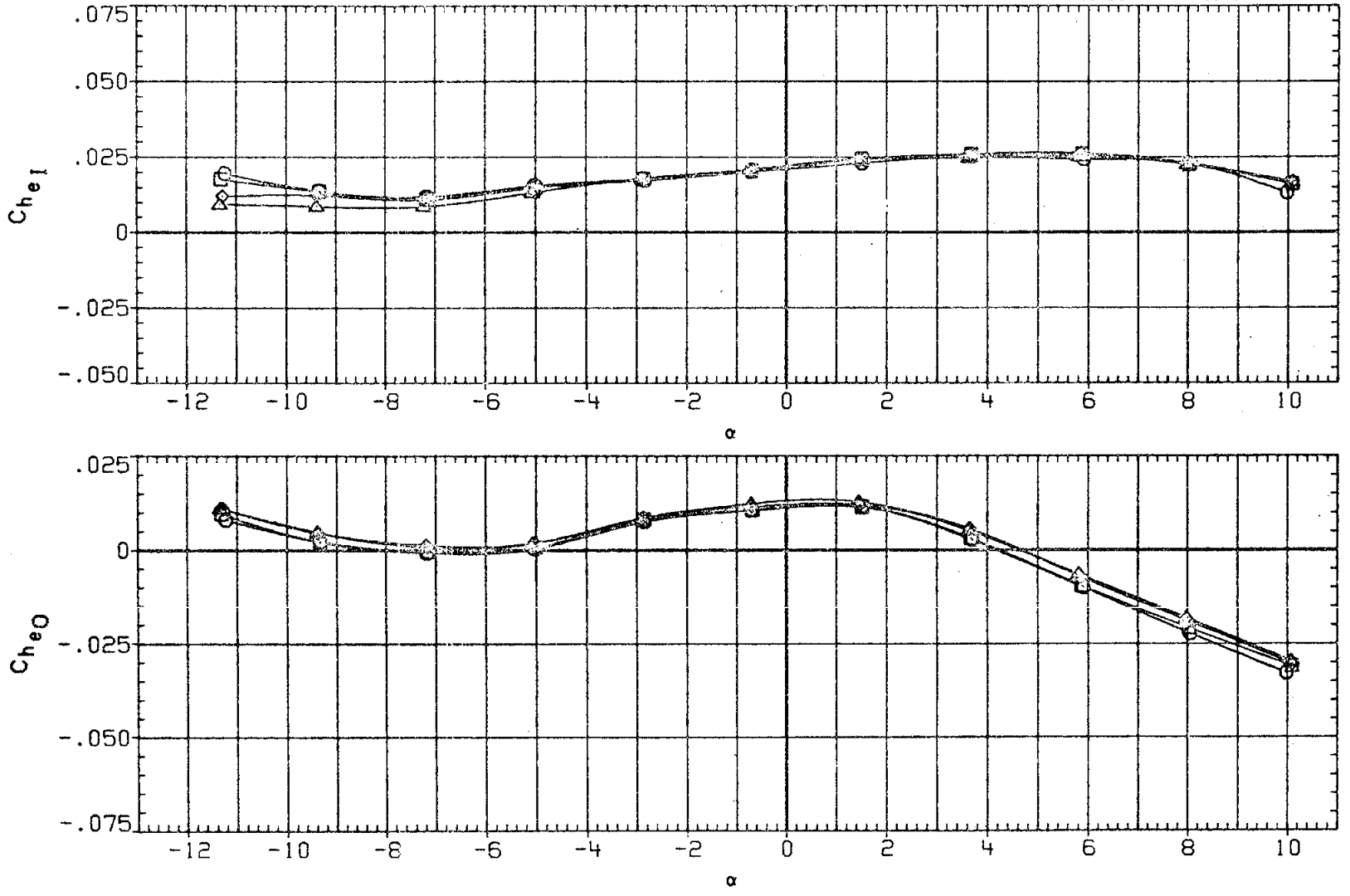


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692. O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6003	□	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692.OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692.OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6010	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

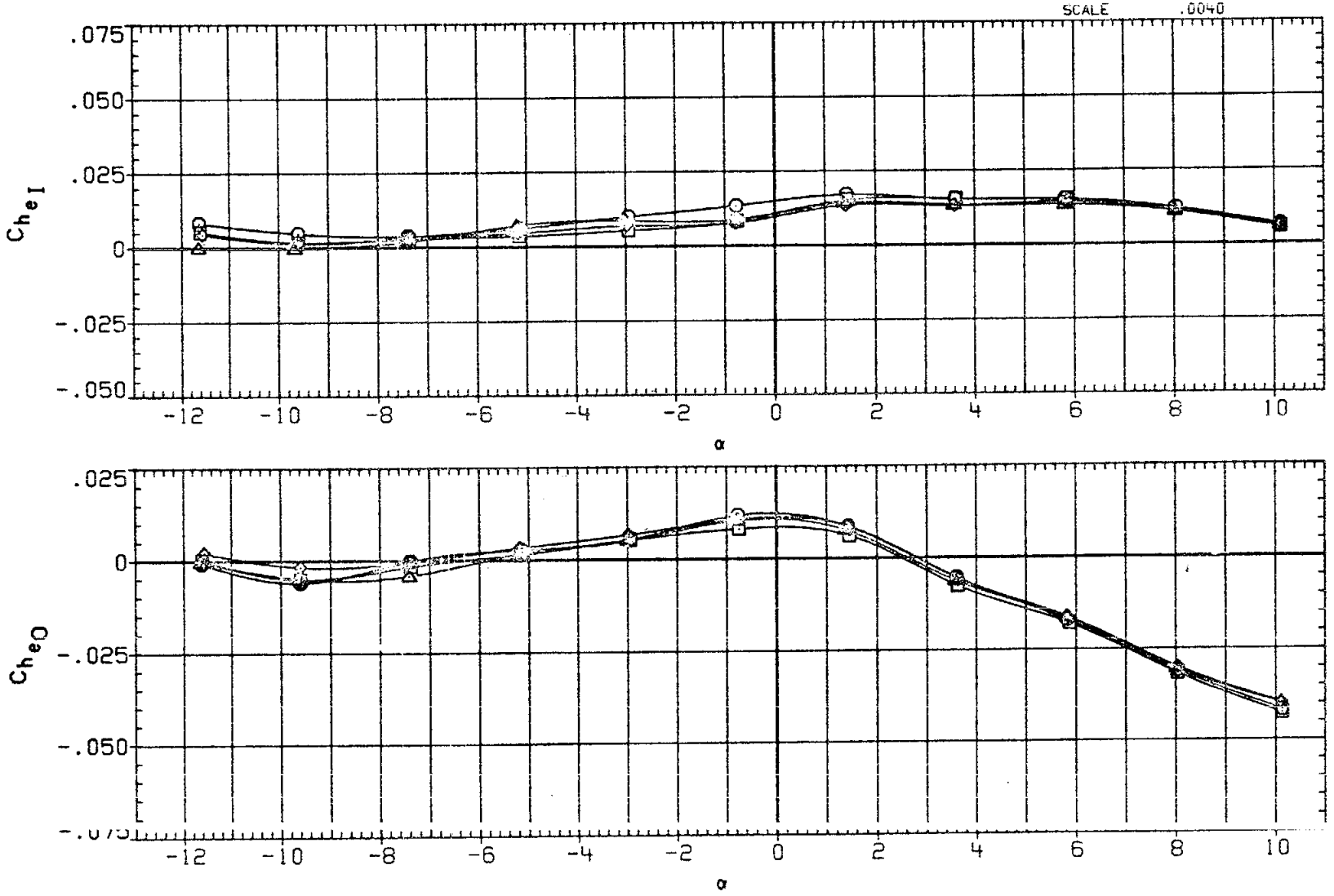


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6010	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

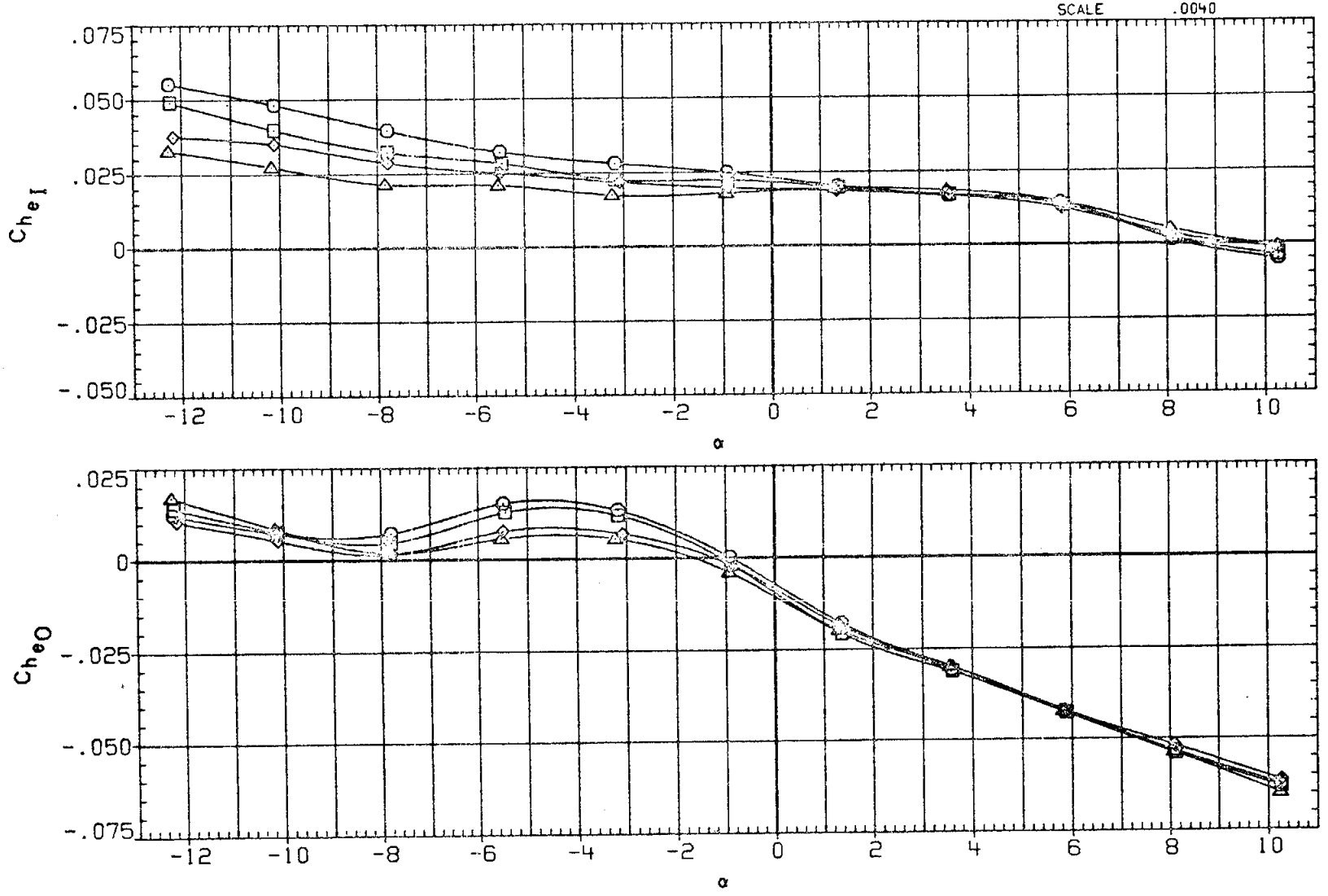


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS(OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6010	◺	MSFC TWT 692,OTS+WING FAIRING(POS.2) - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

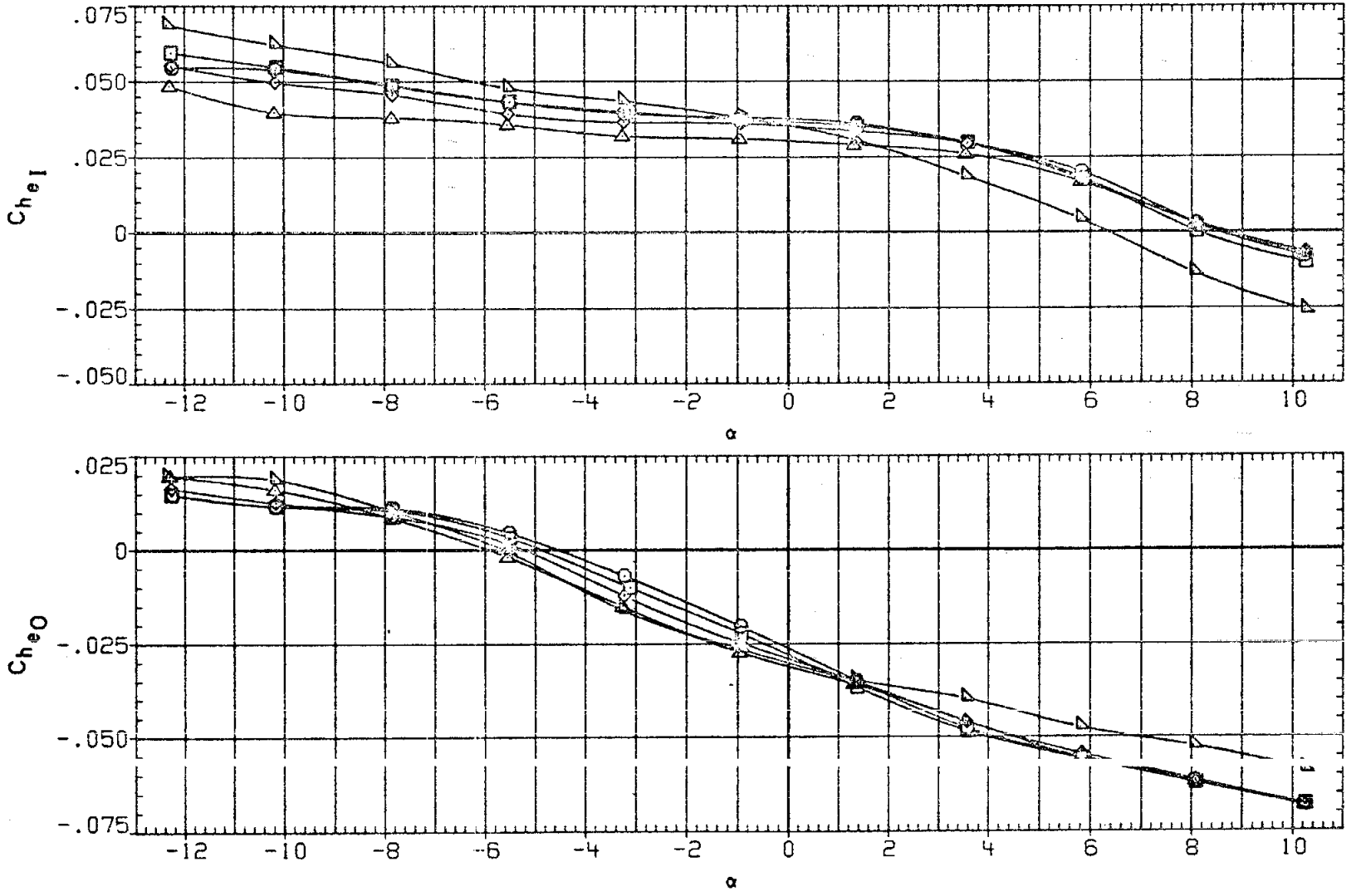


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF
TA6010	◺	DATA NOT AVAILABLE	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

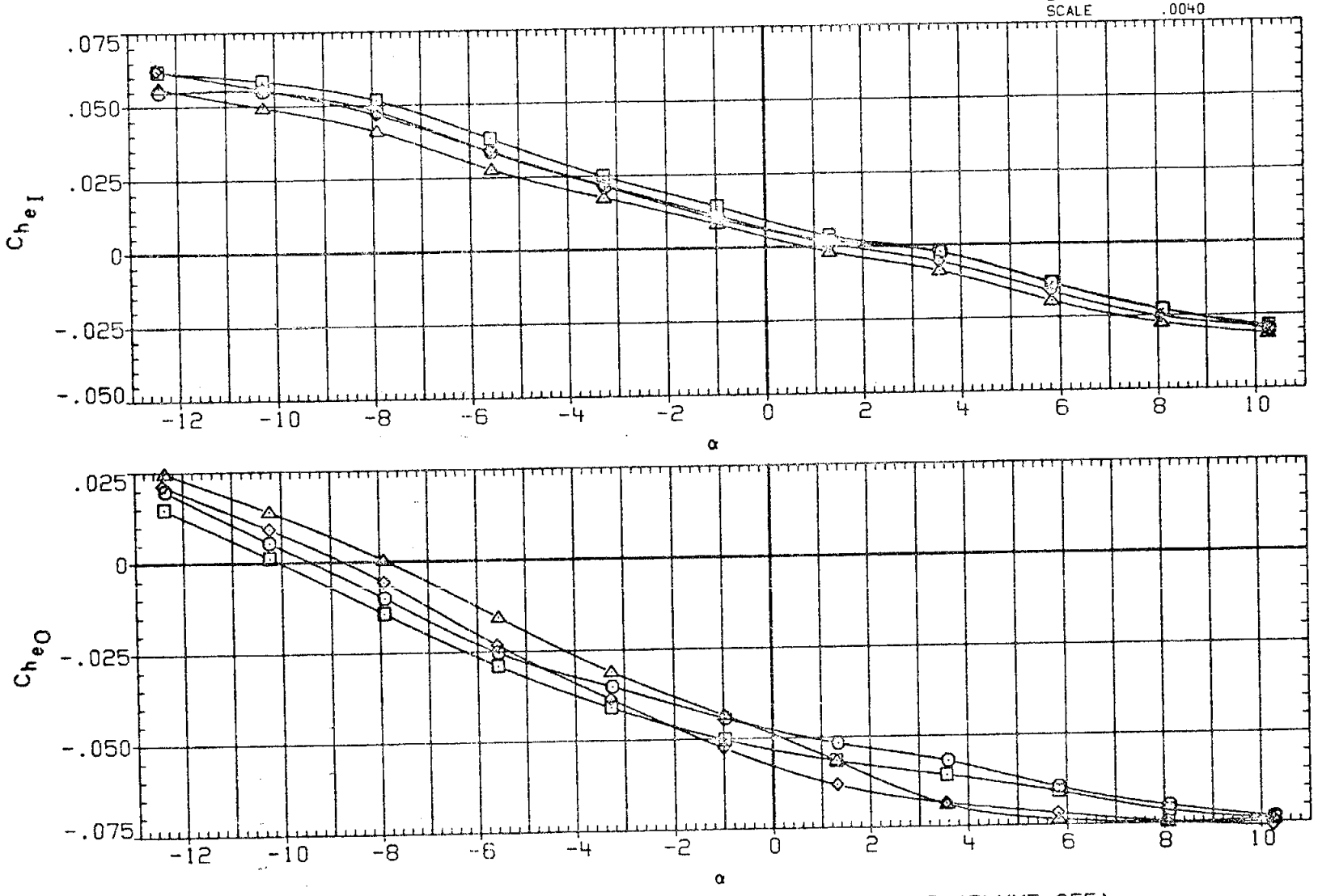


FIG. 2 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

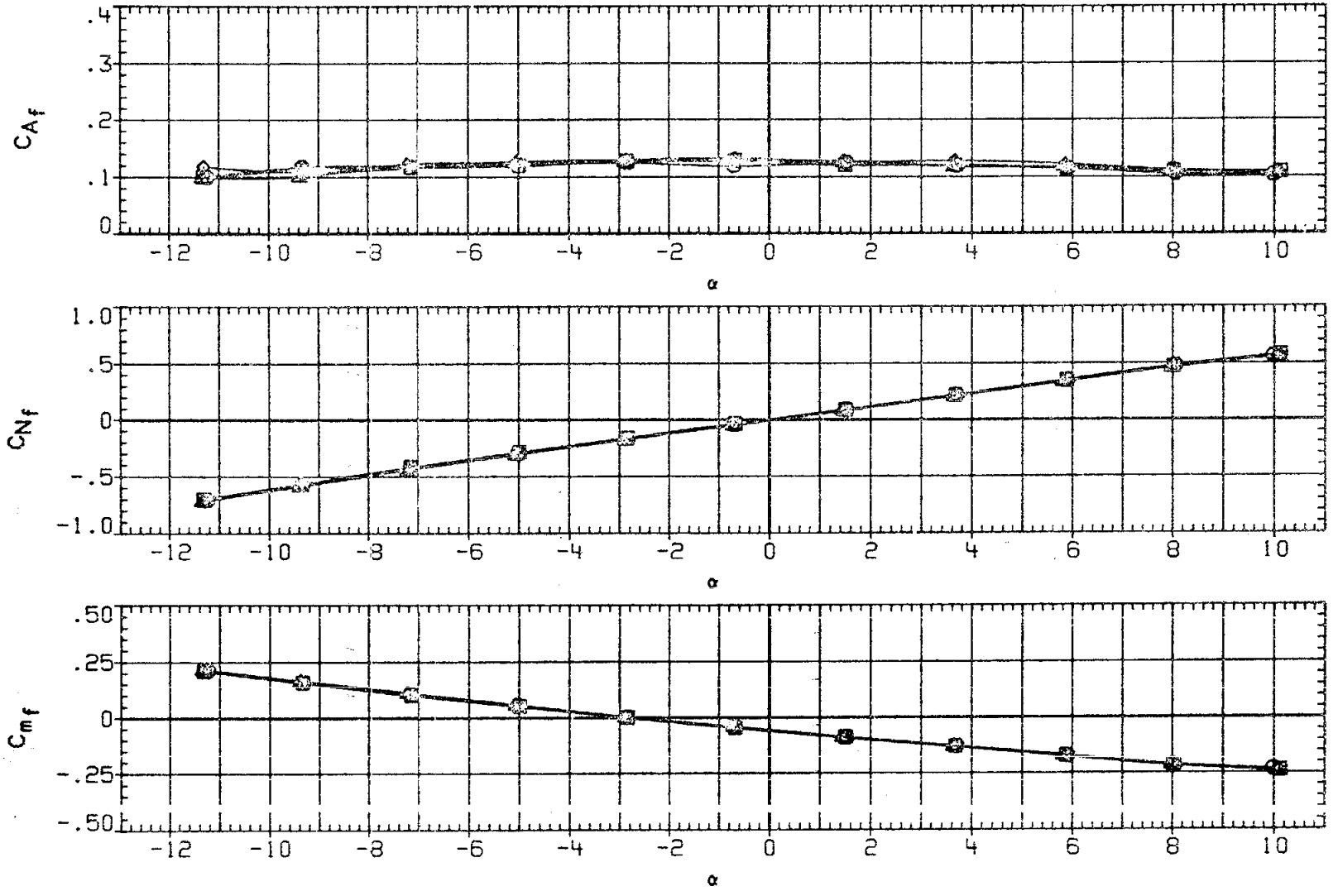


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

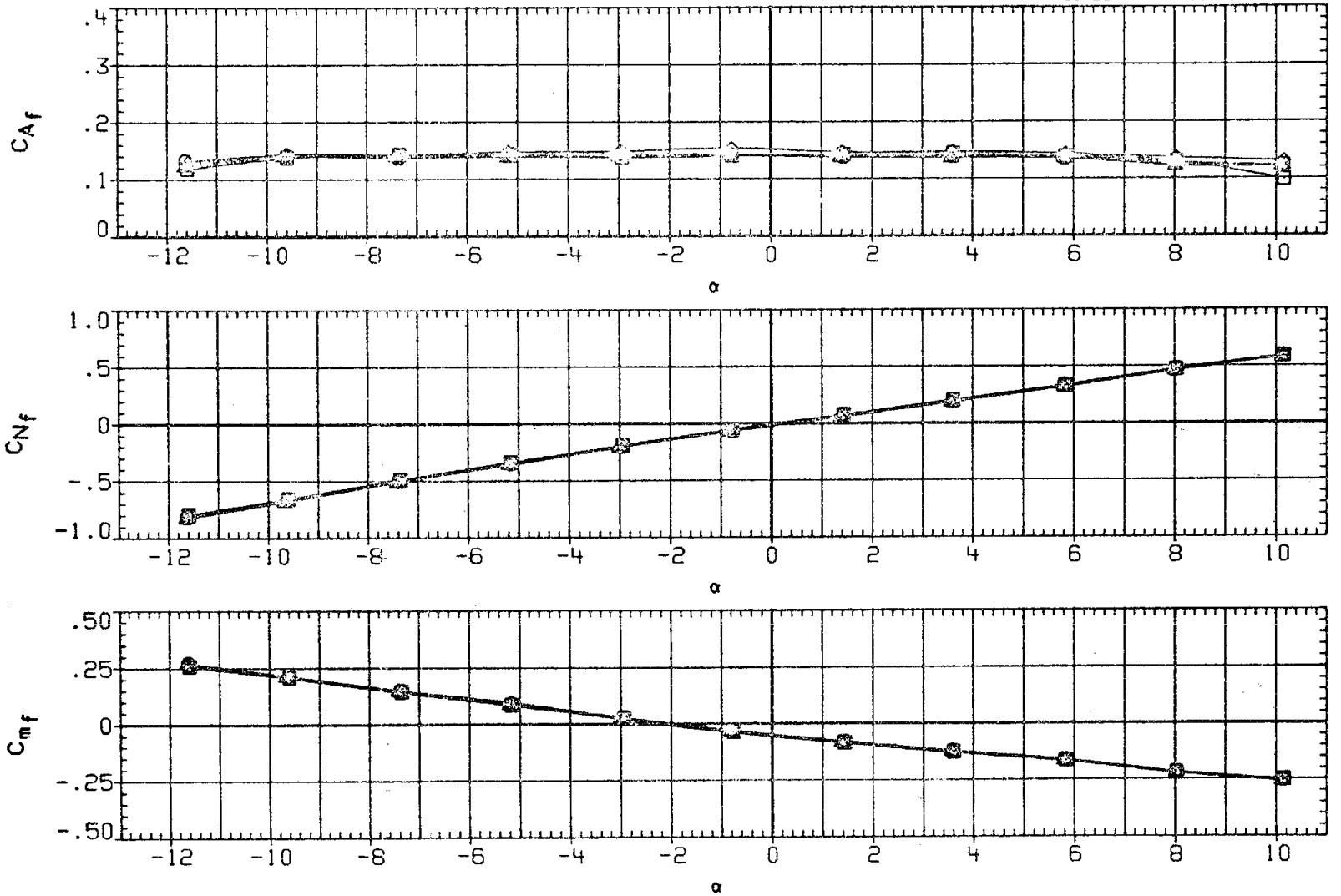


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

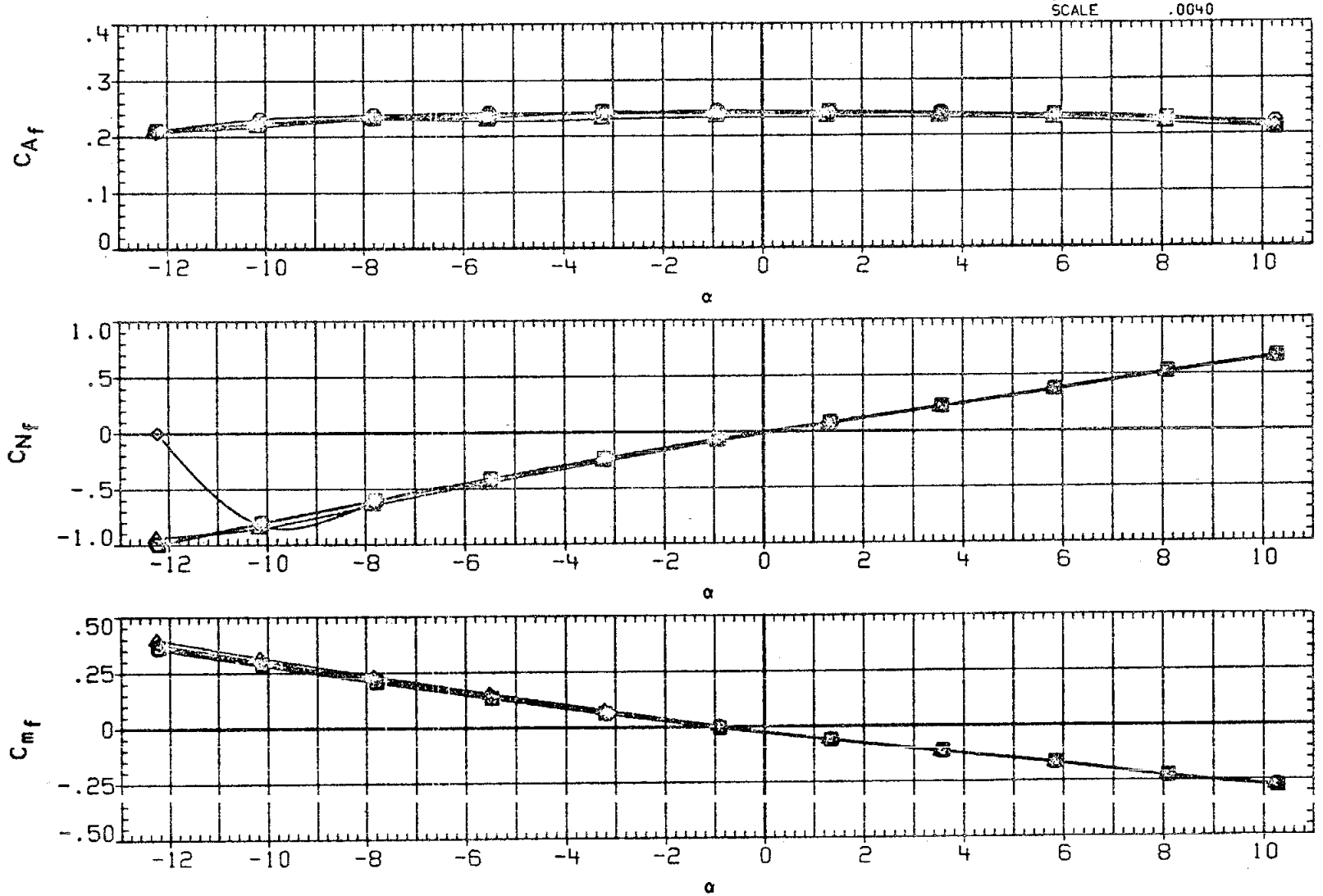


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

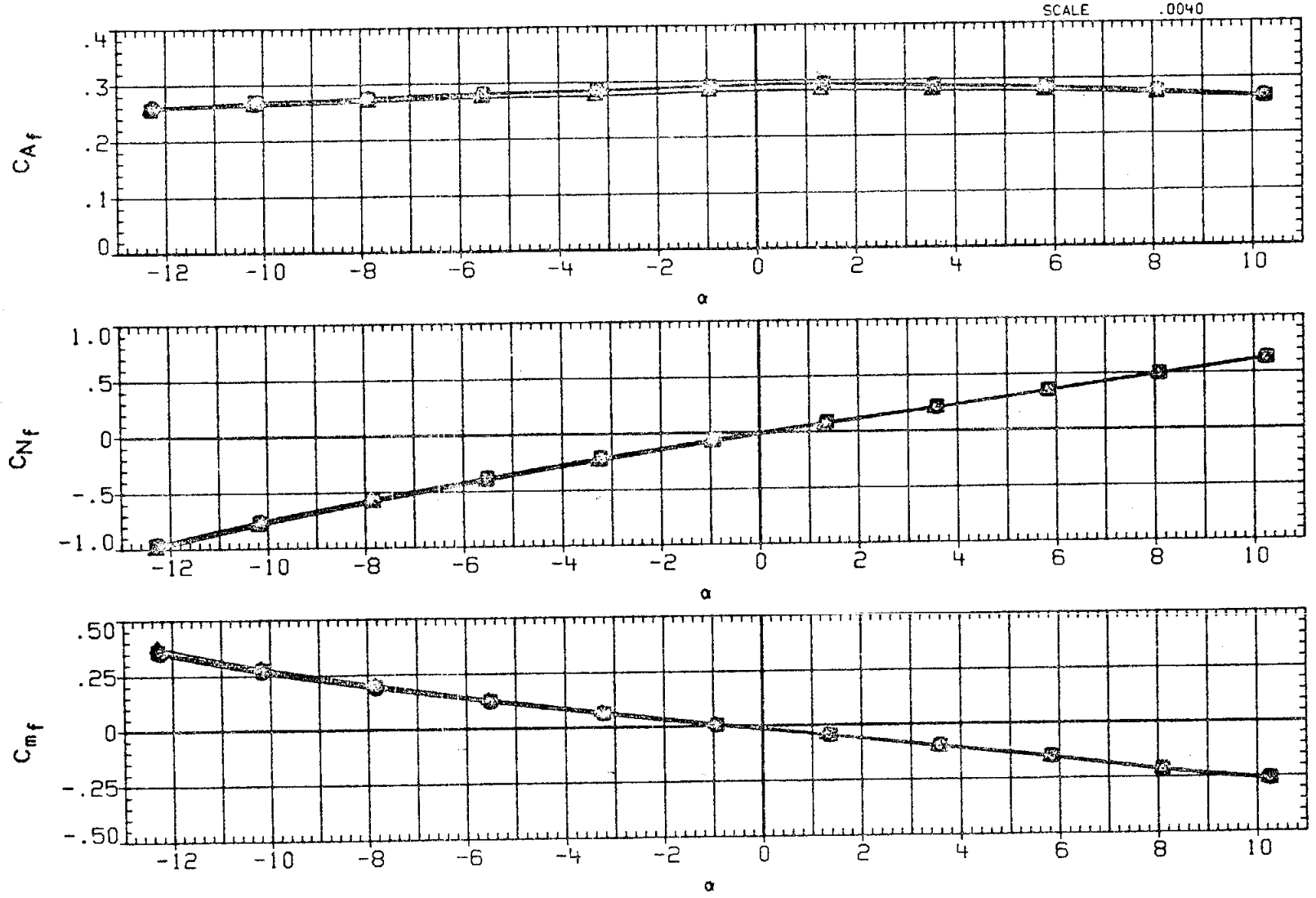


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

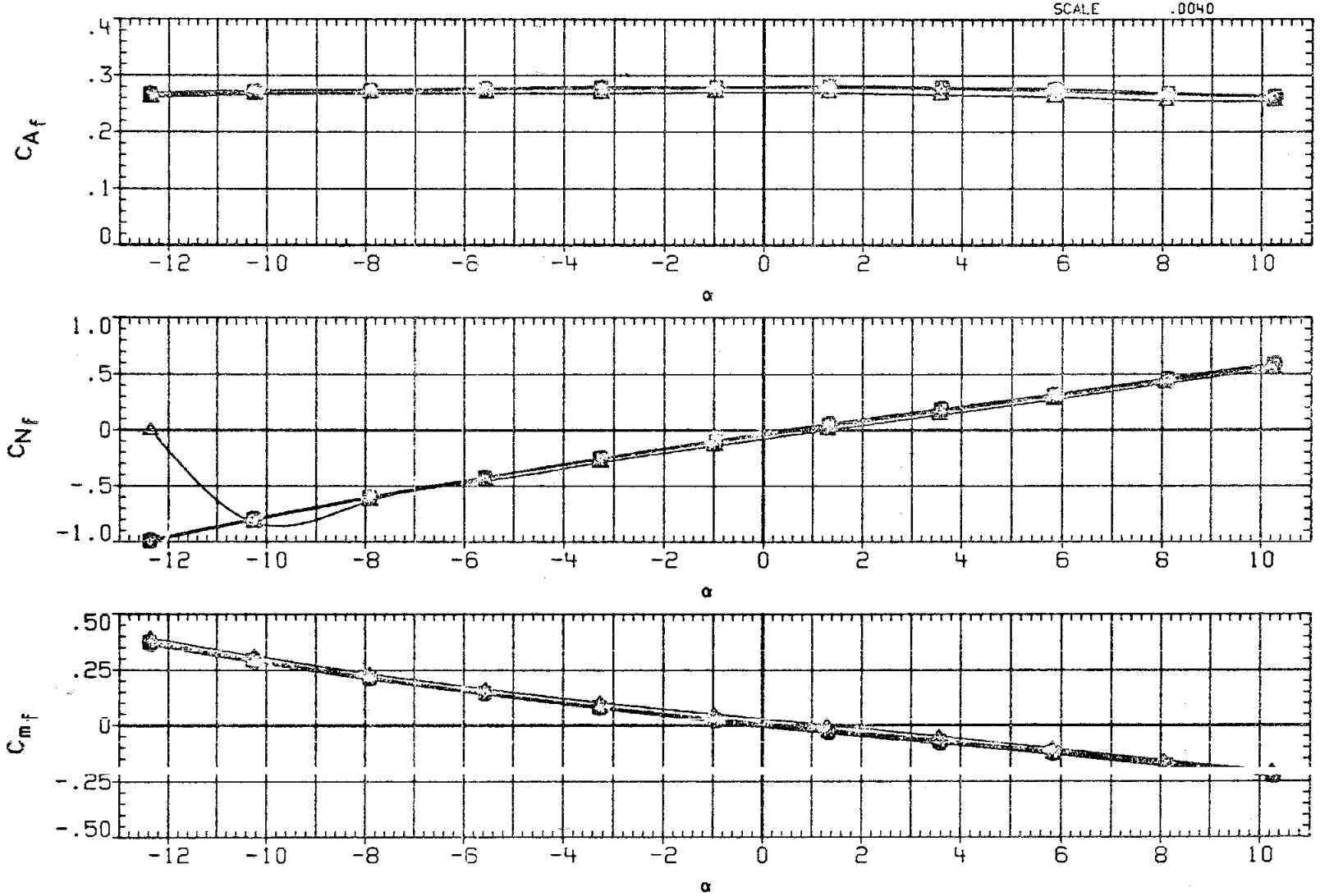


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

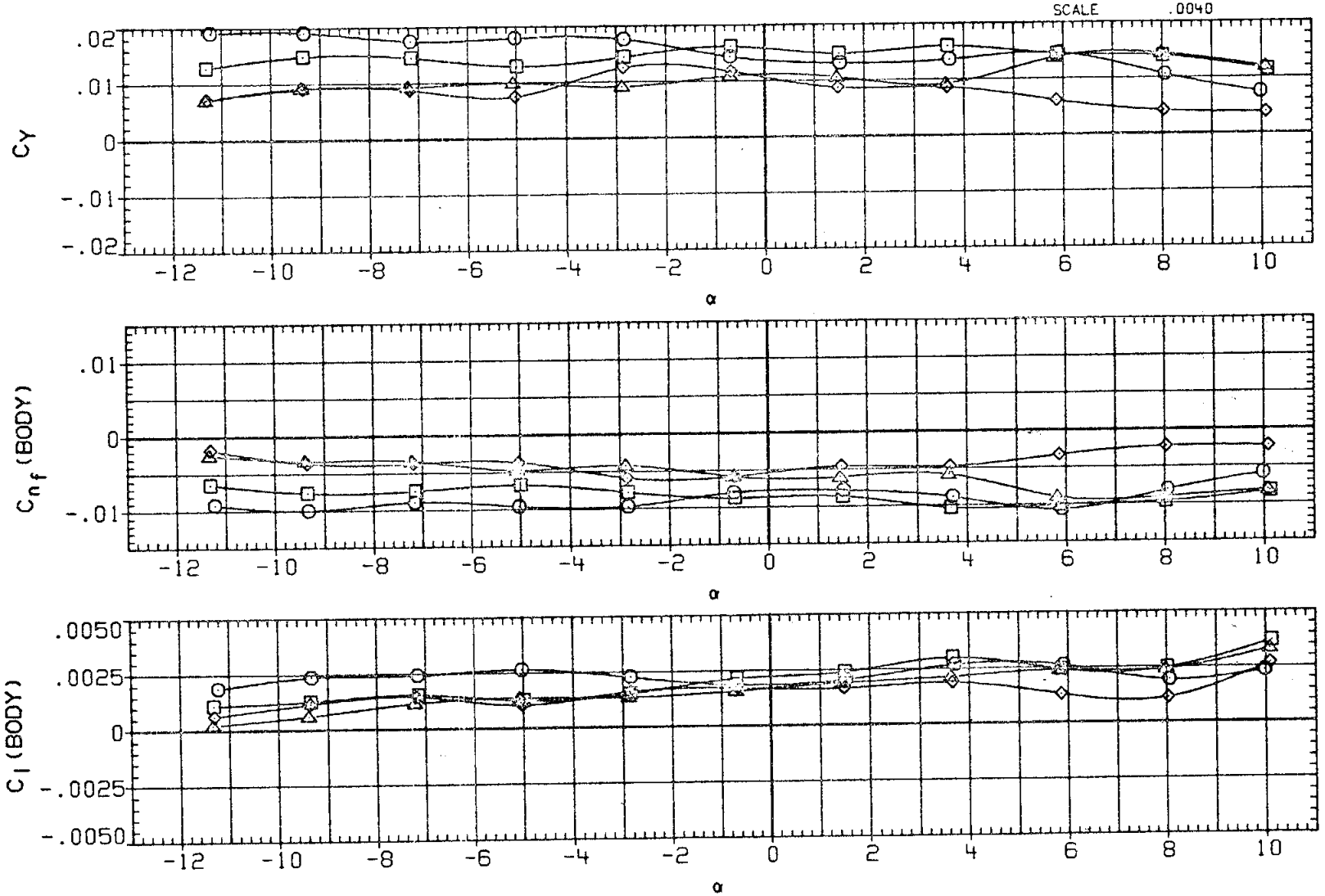


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION		BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) -	PLUME OFF	.000	10.000	5.000	OFF
RA6006	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)-	PLUME OFF	.000	10.000	5.000	OFF
RA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)-	PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING -	PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

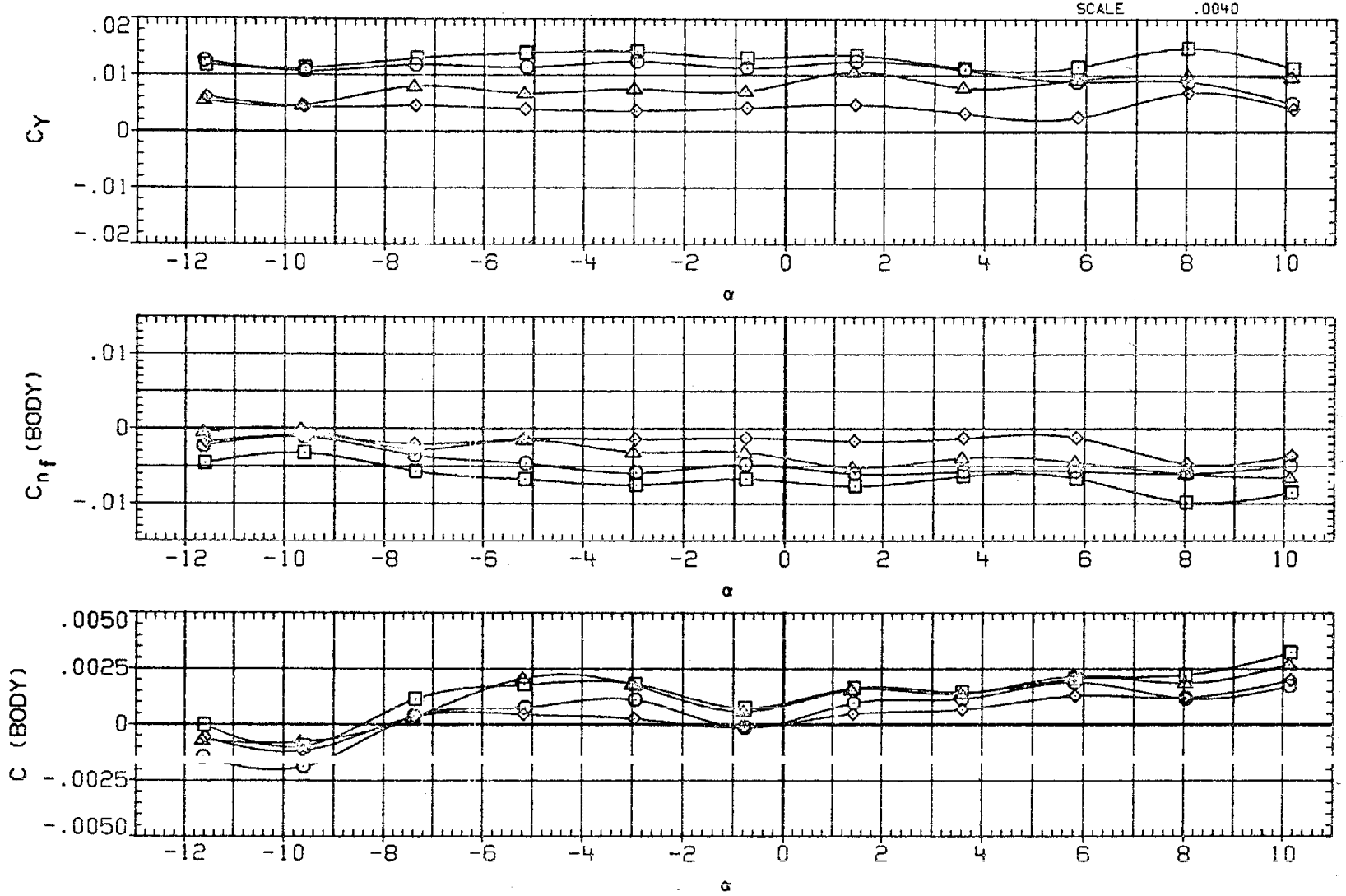


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

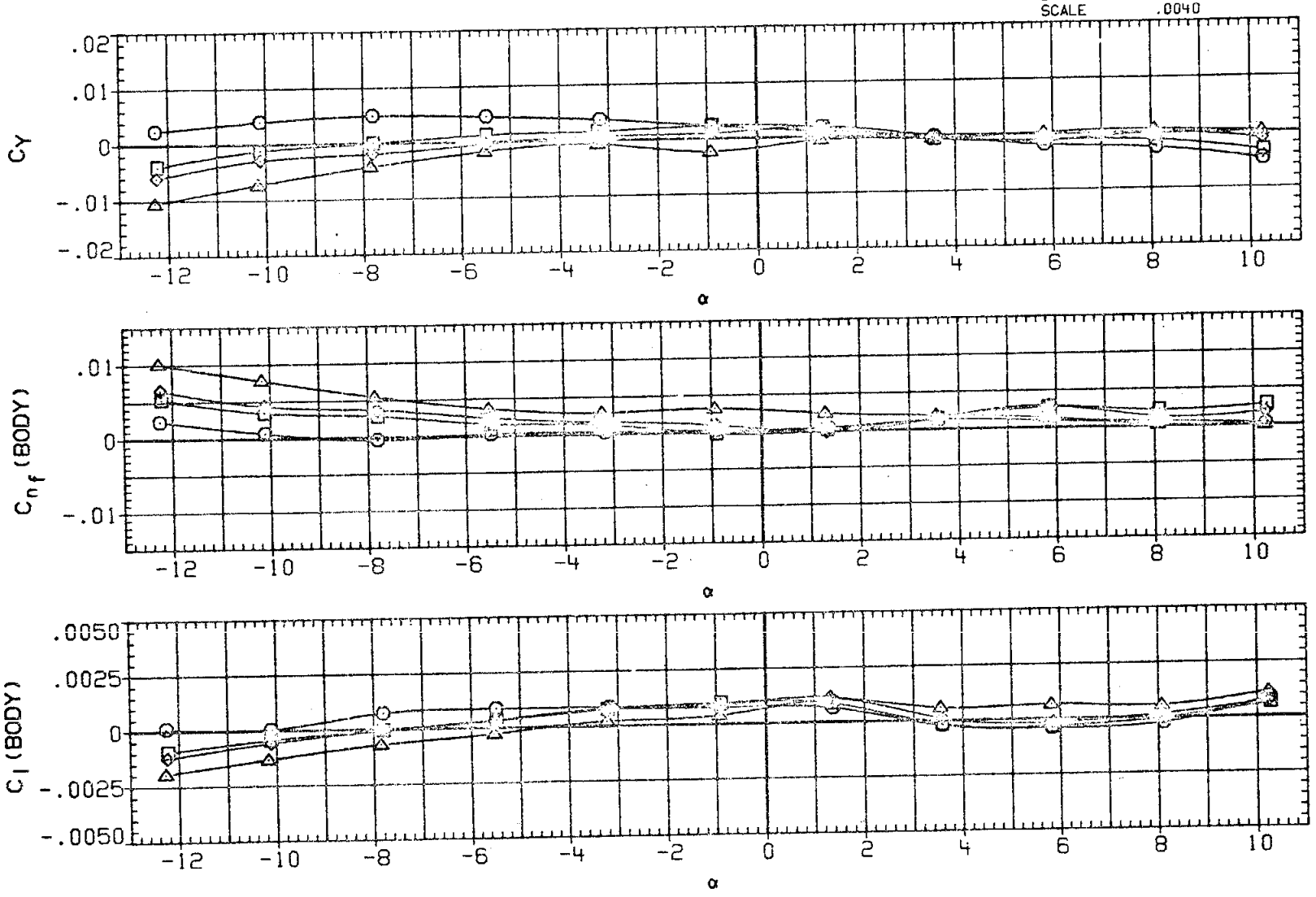


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

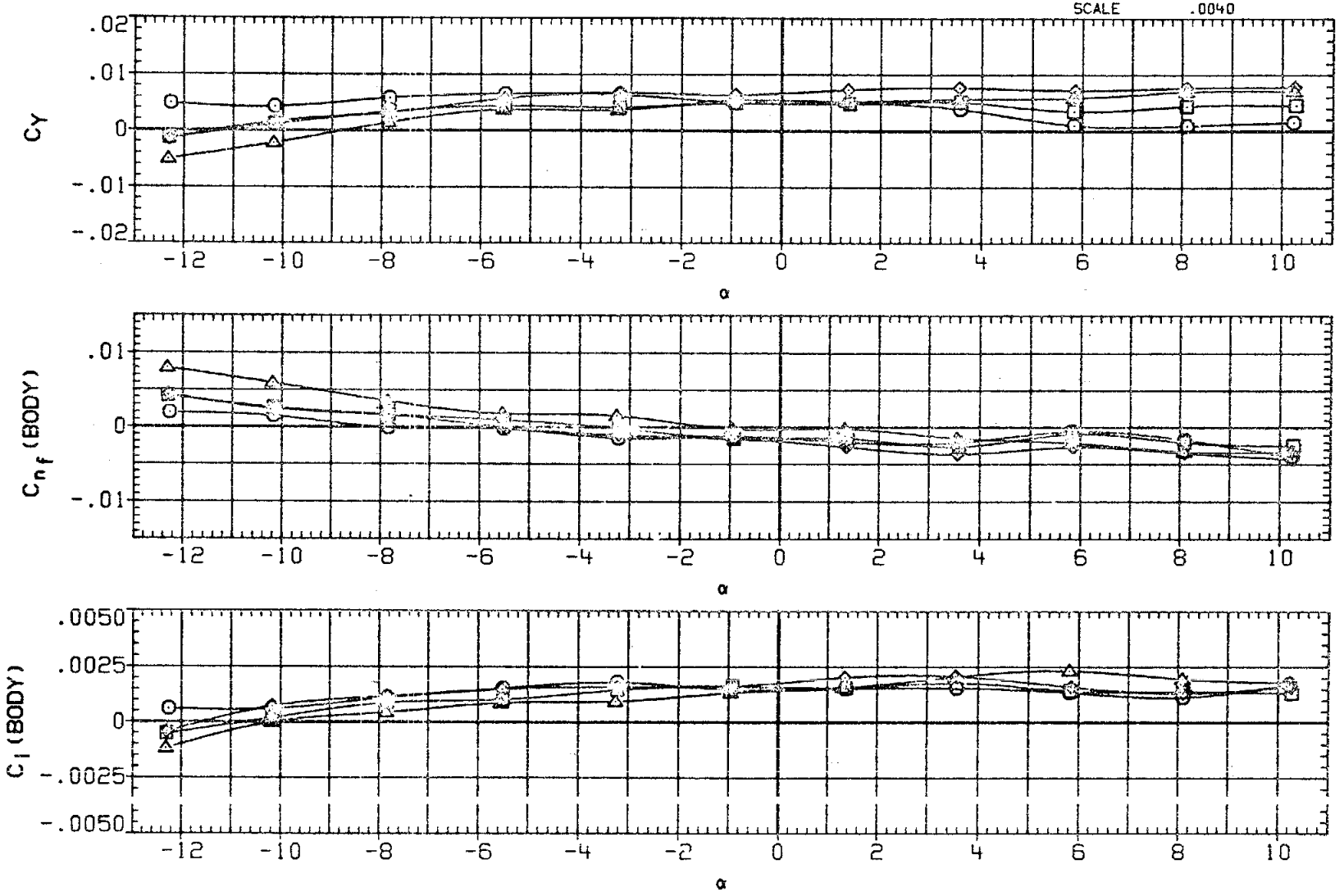


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
RA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

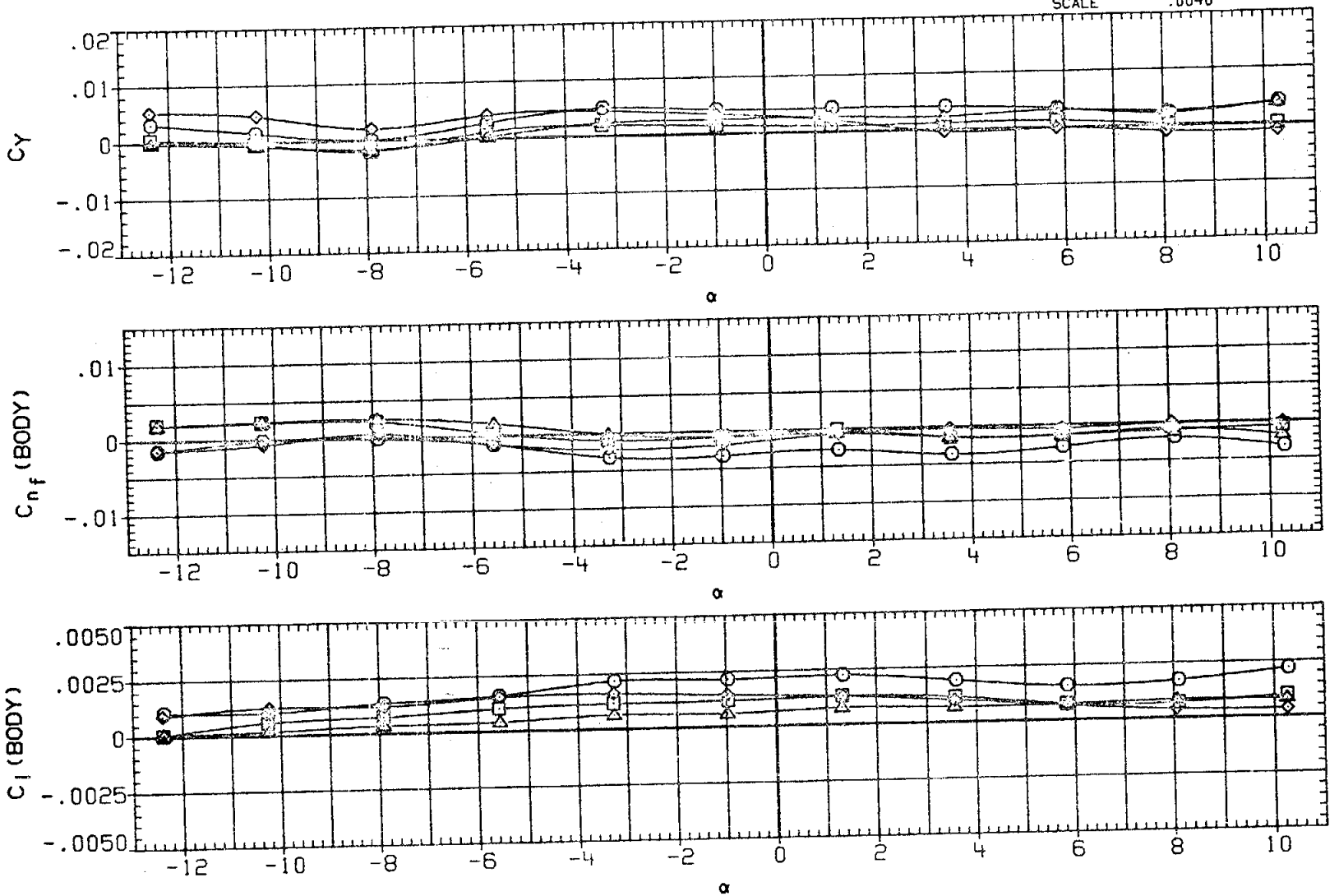


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

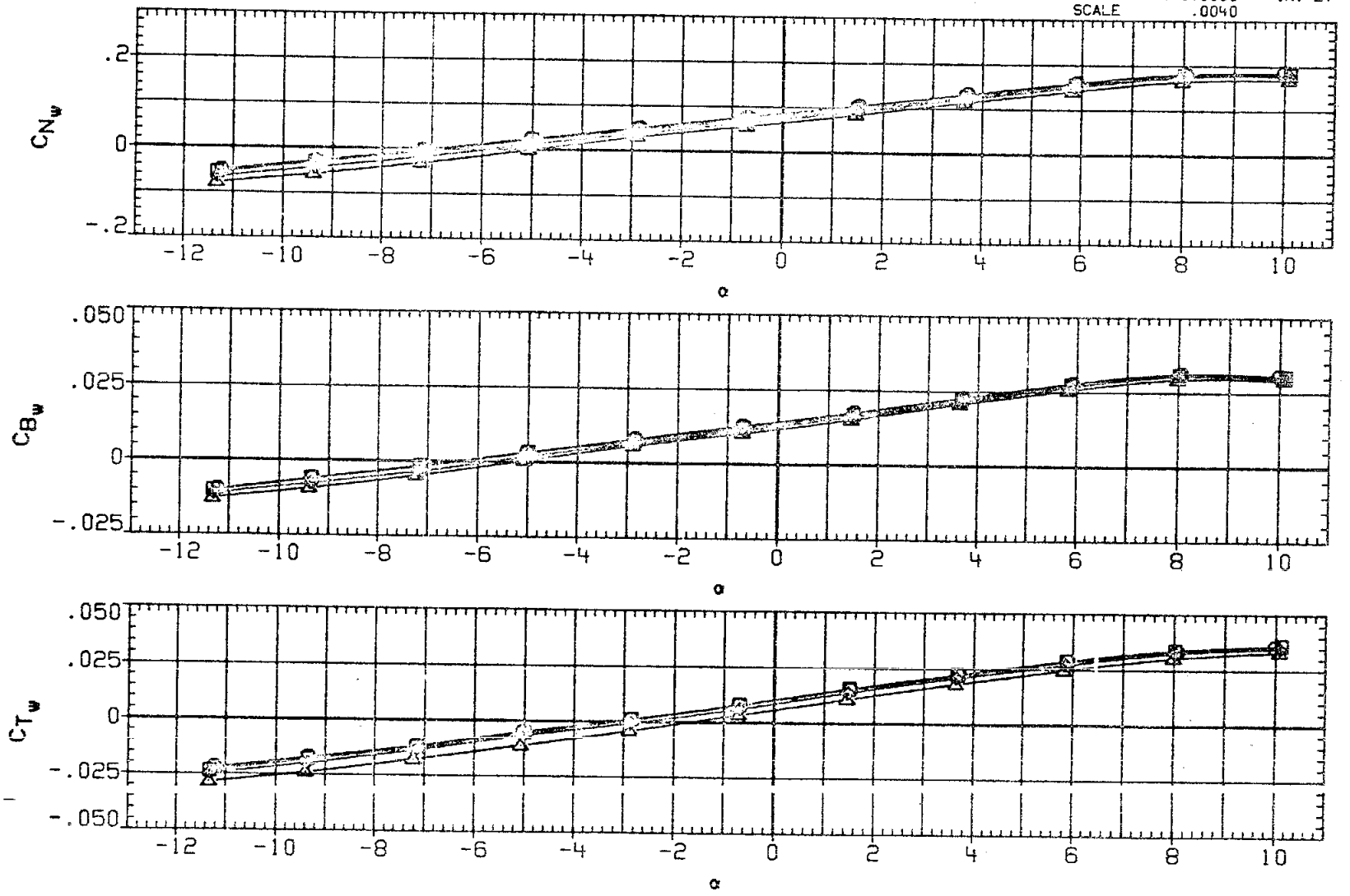


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

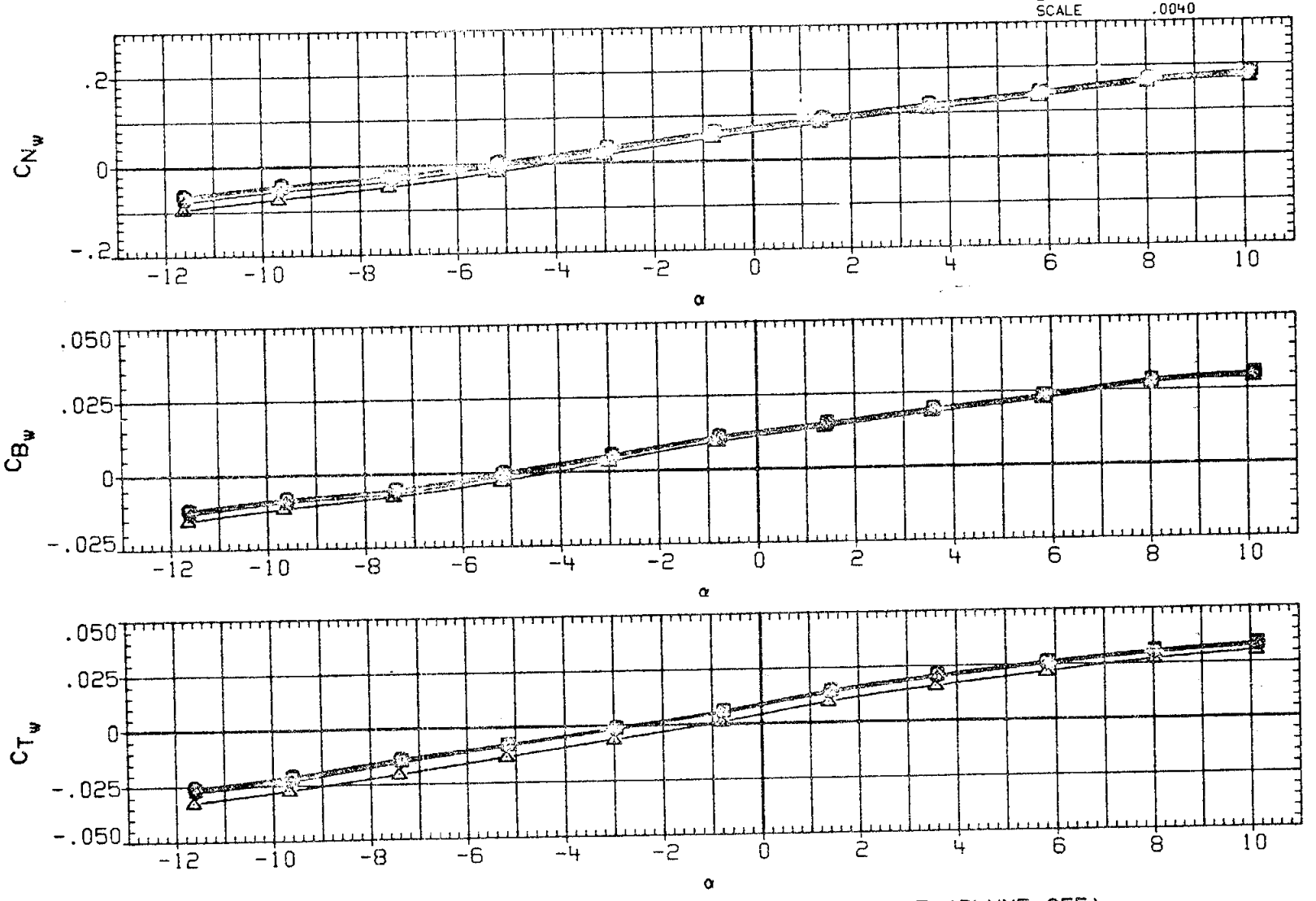


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION		BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) -	PLUME OFF	.000	10.000	5.000	OFF
TA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)-	PLUME OFF	.000	10.000	5.000	OFF
TA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)-	PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING -	PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

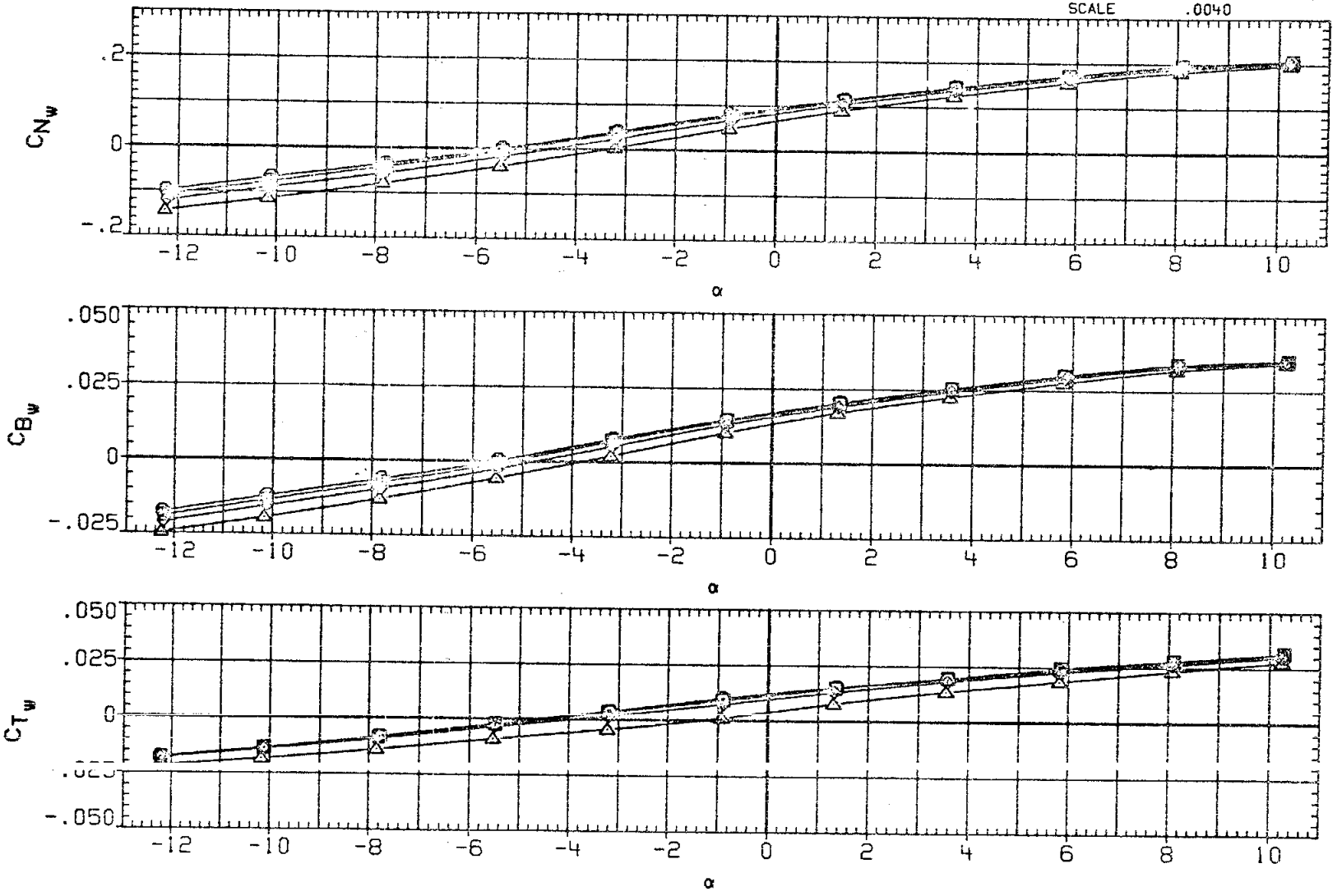


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

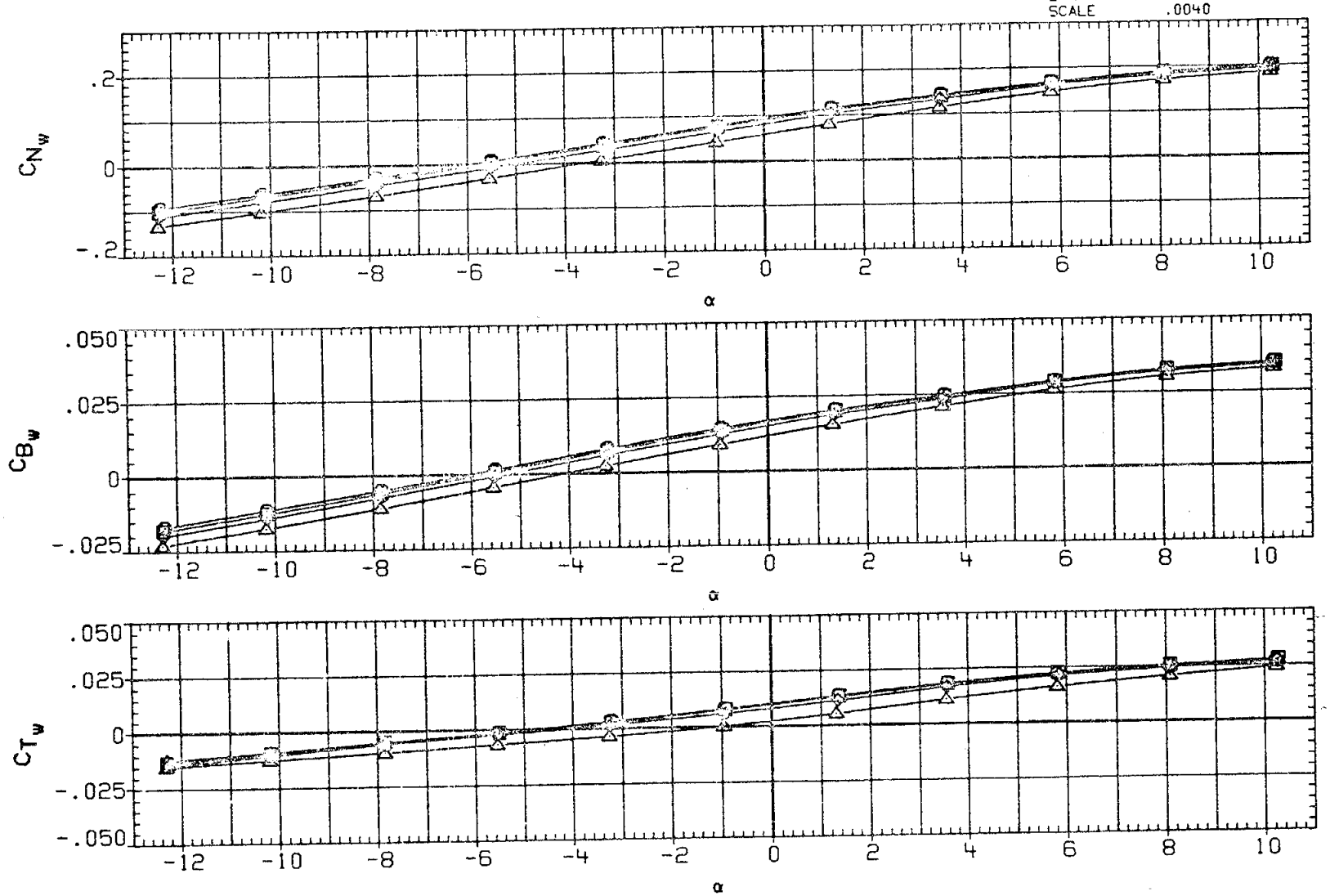


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

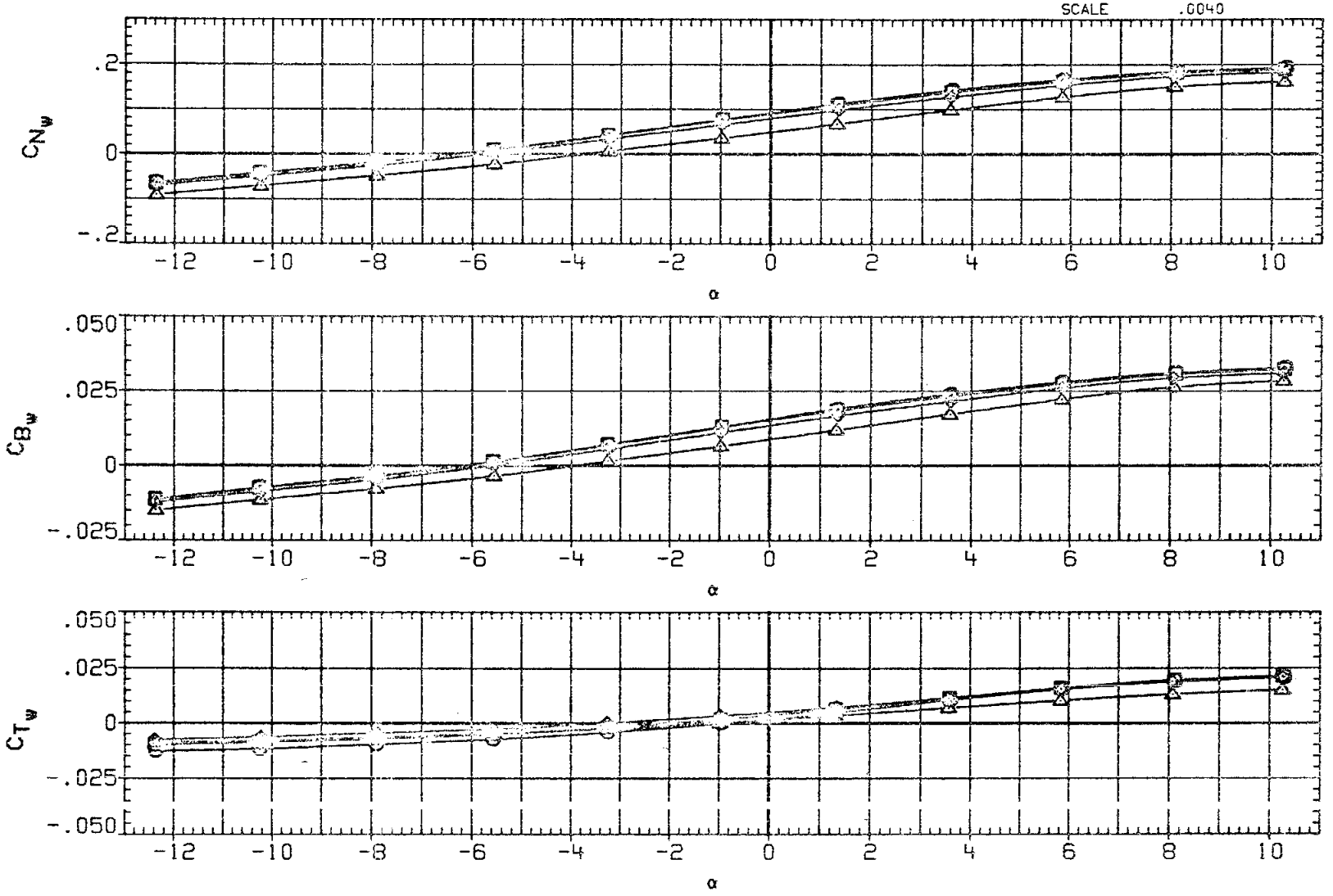


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

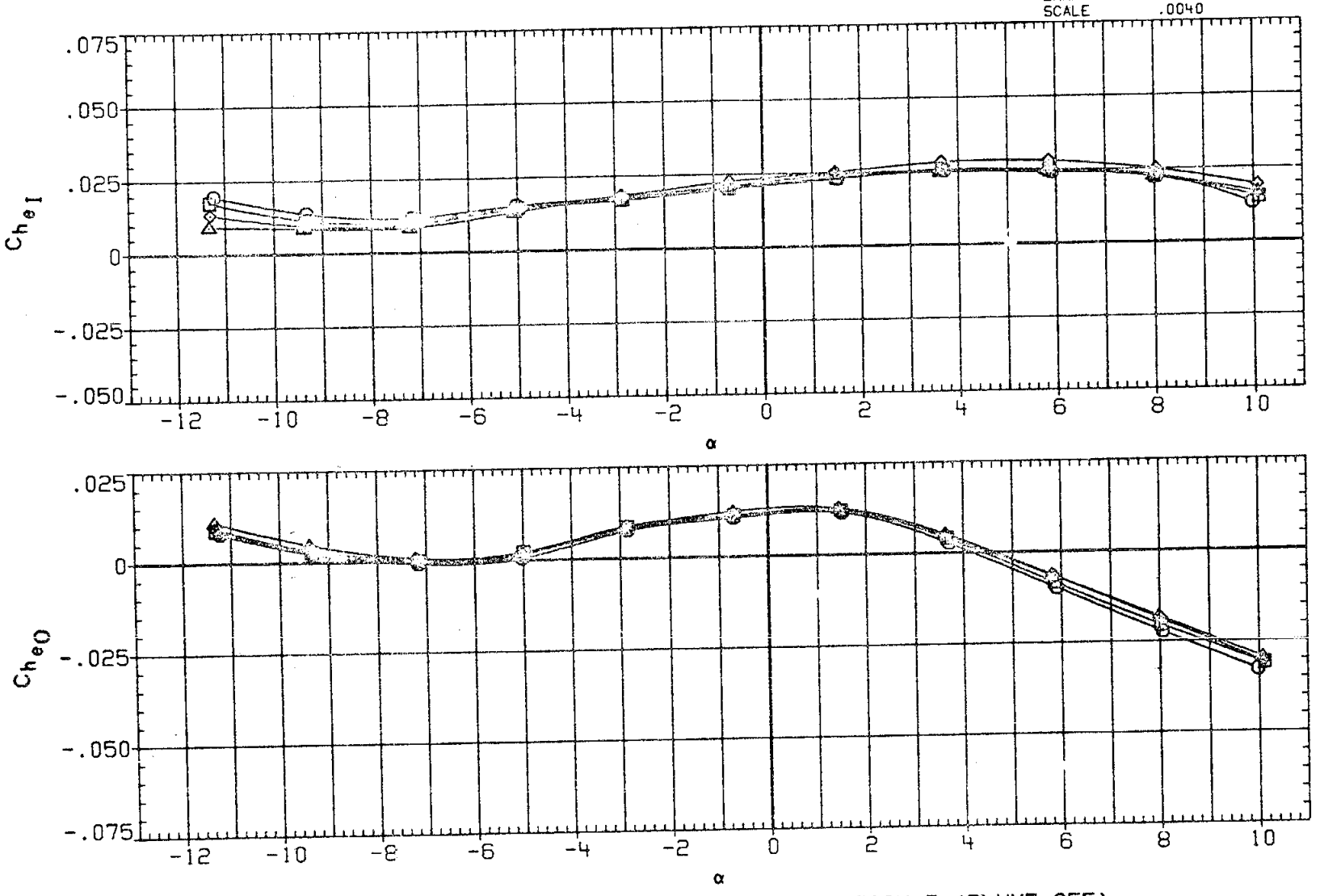


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

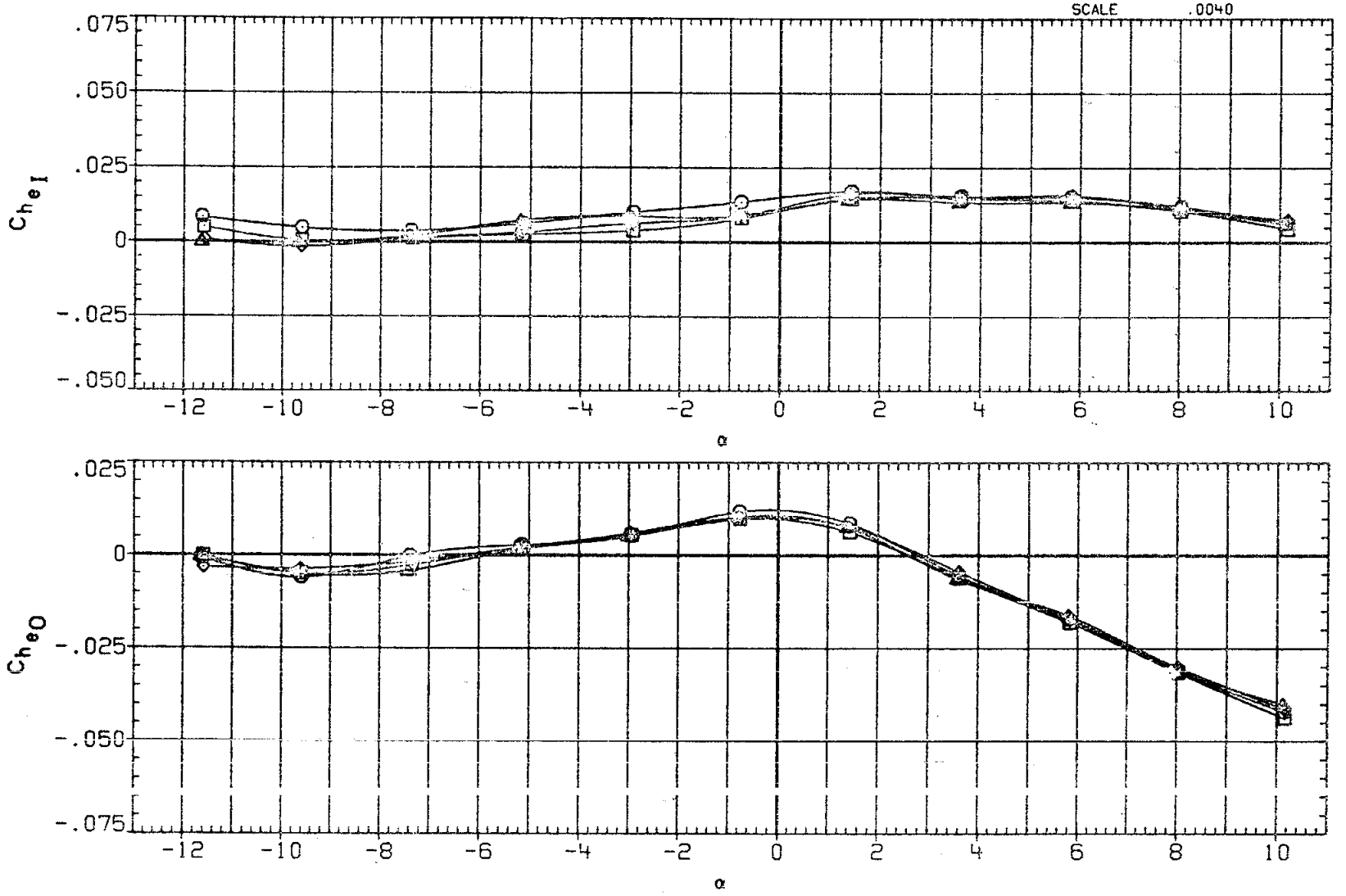


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

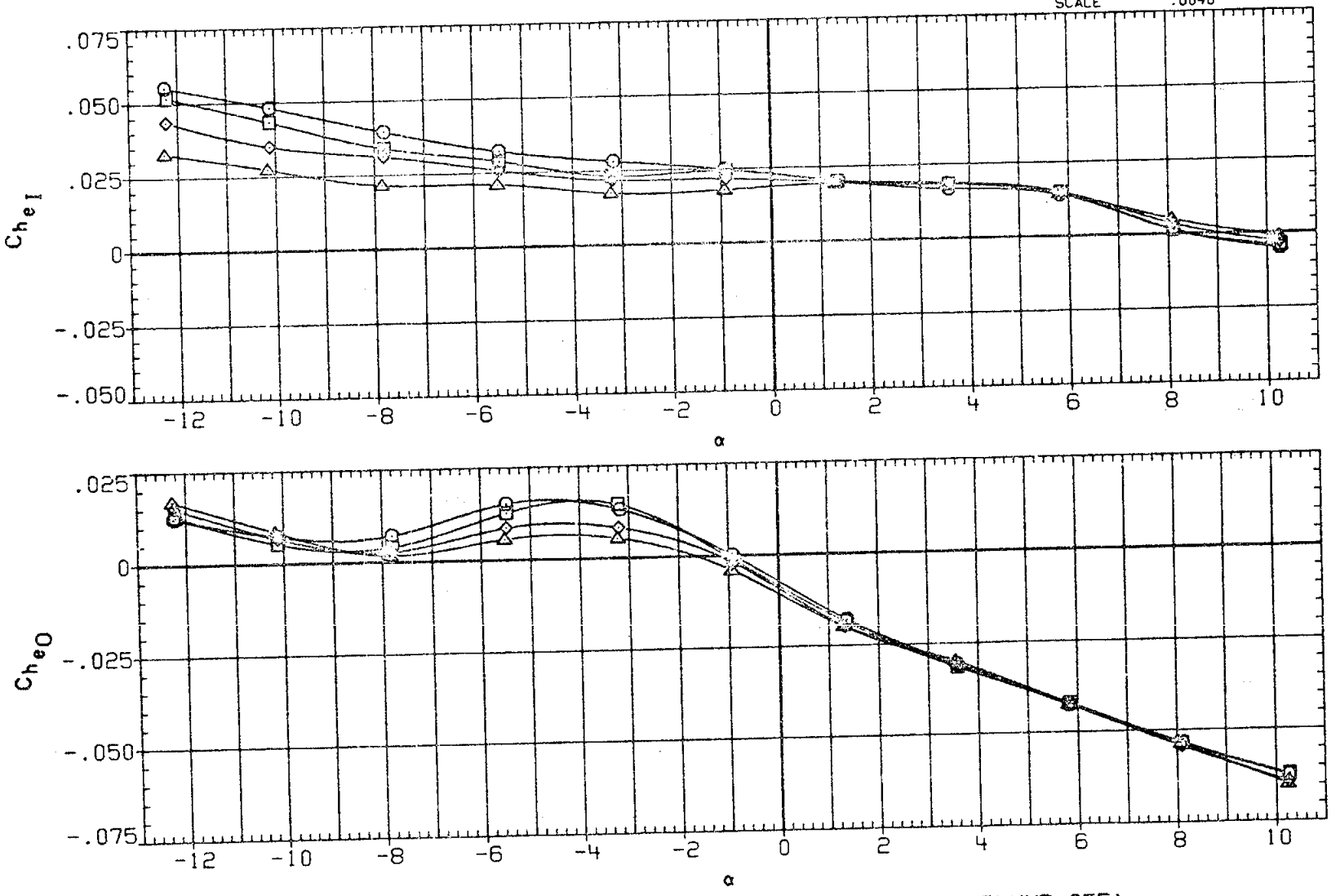


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

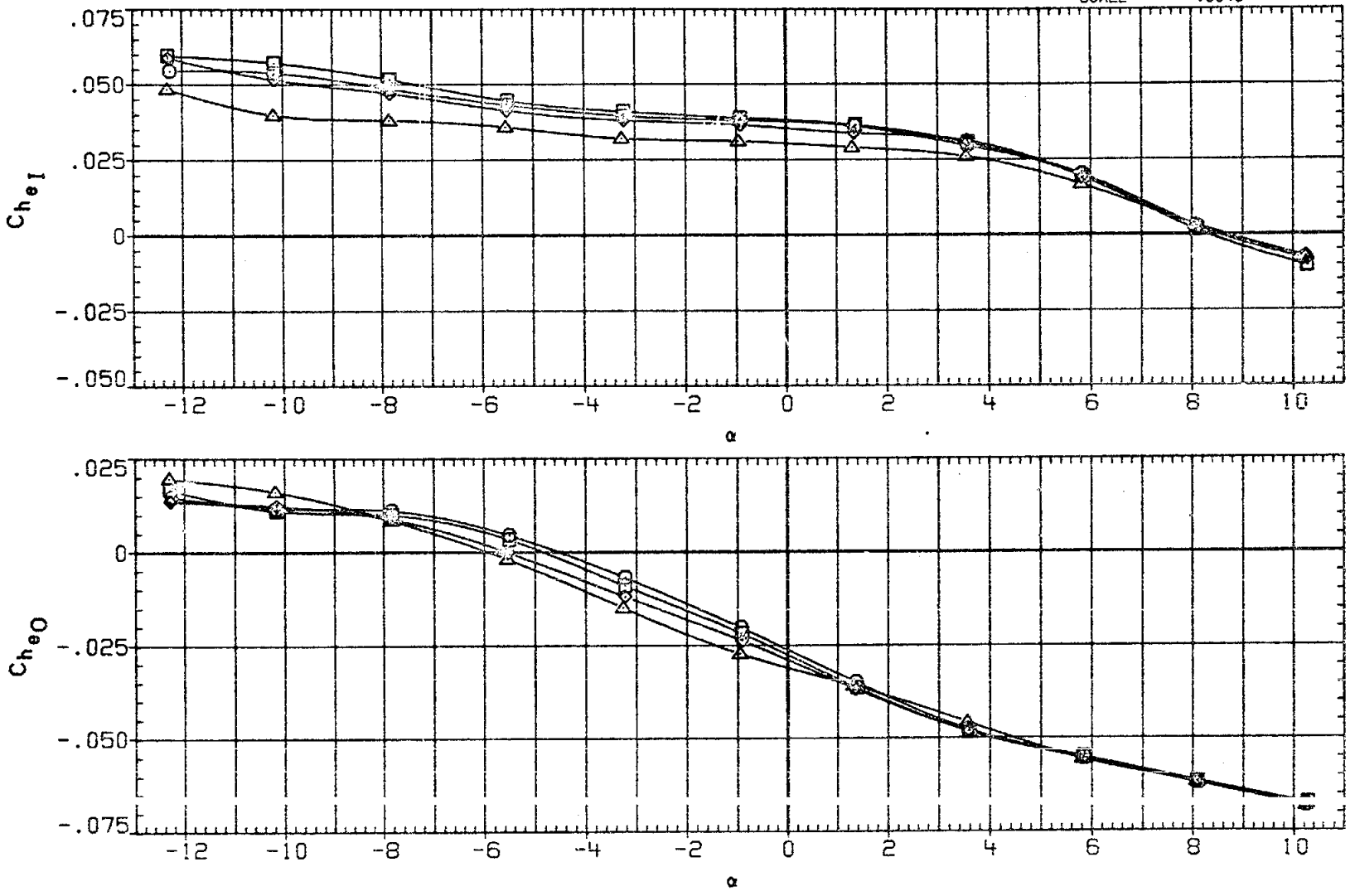


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
TA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

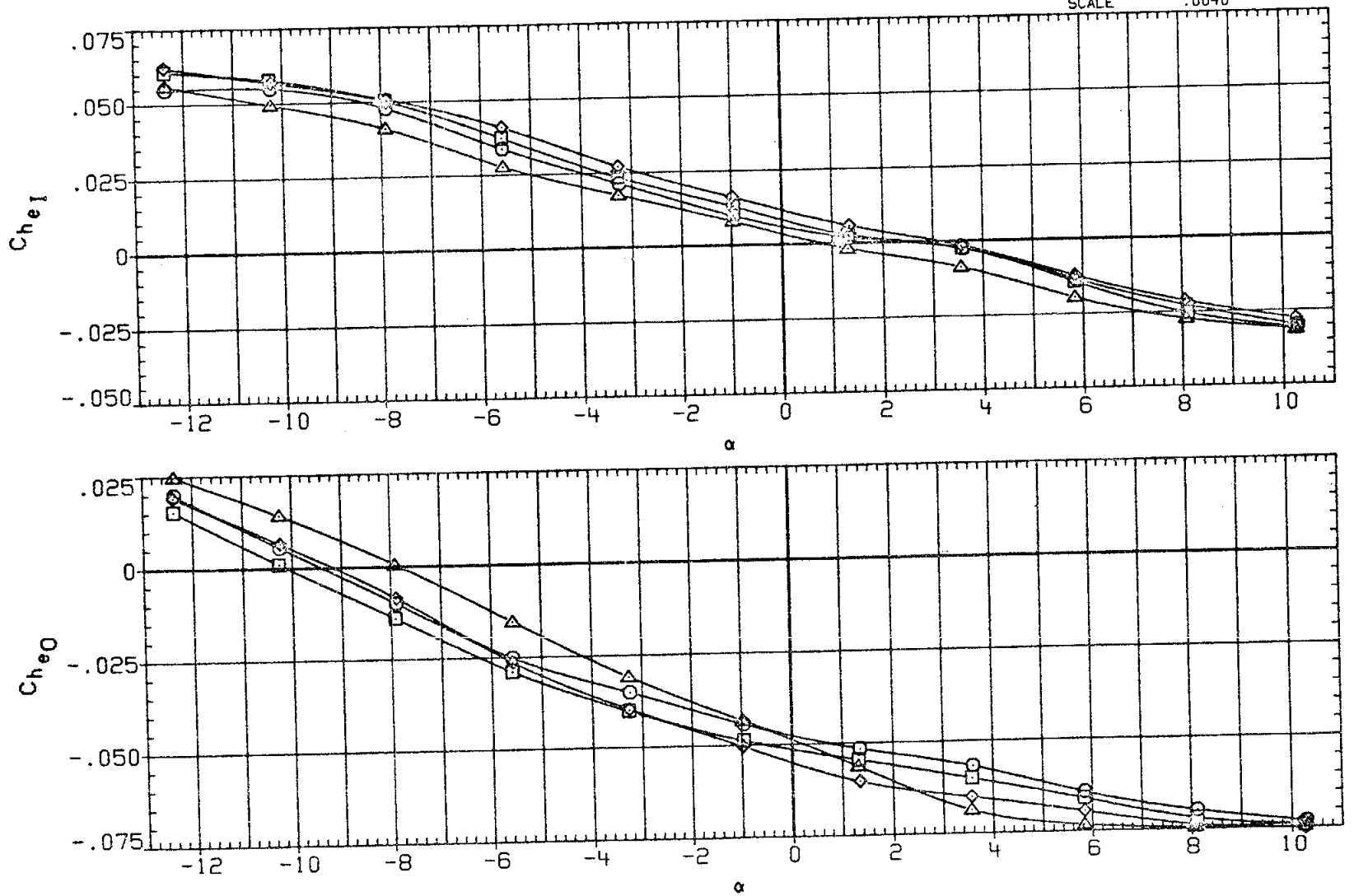


FIG. 3 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

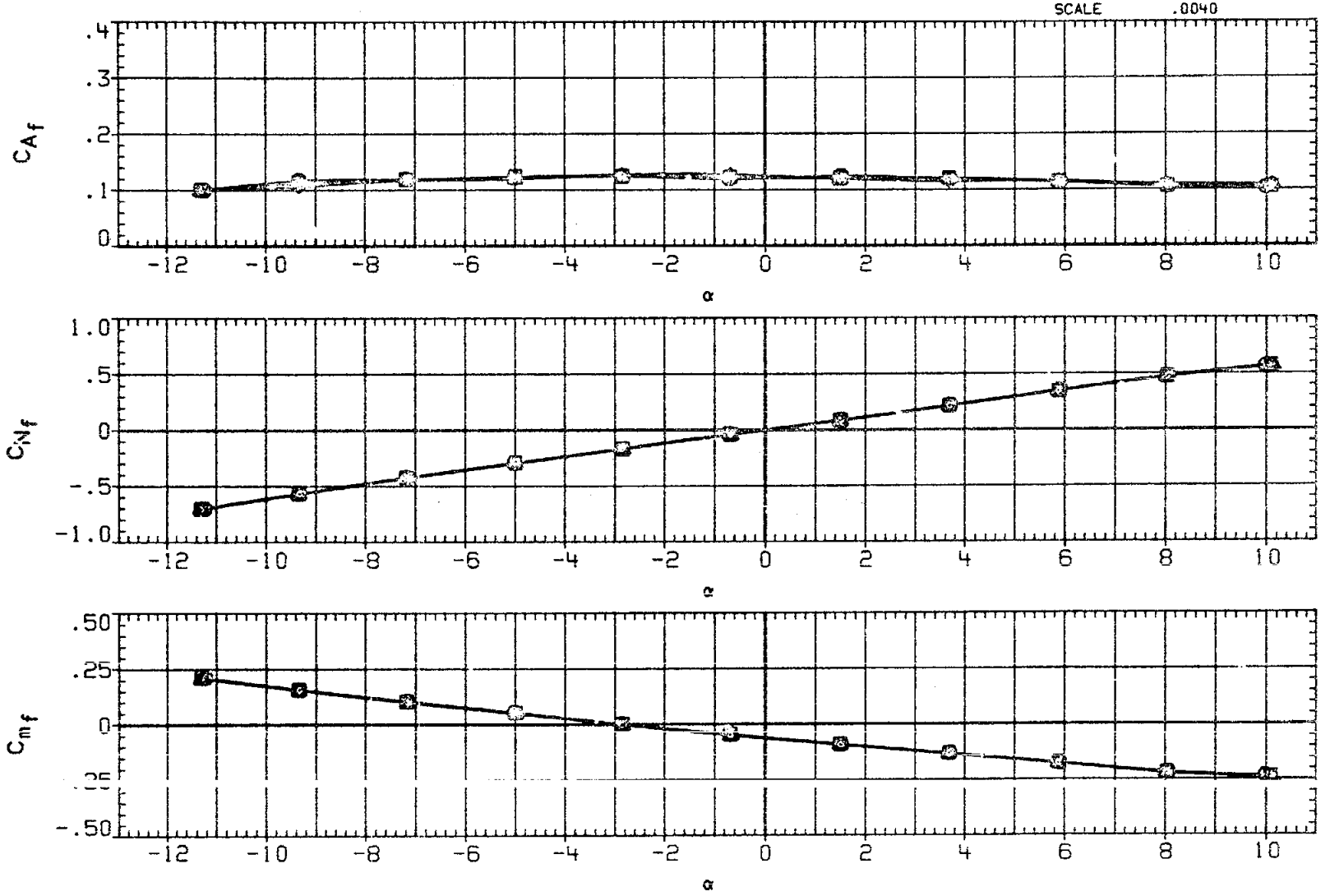


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

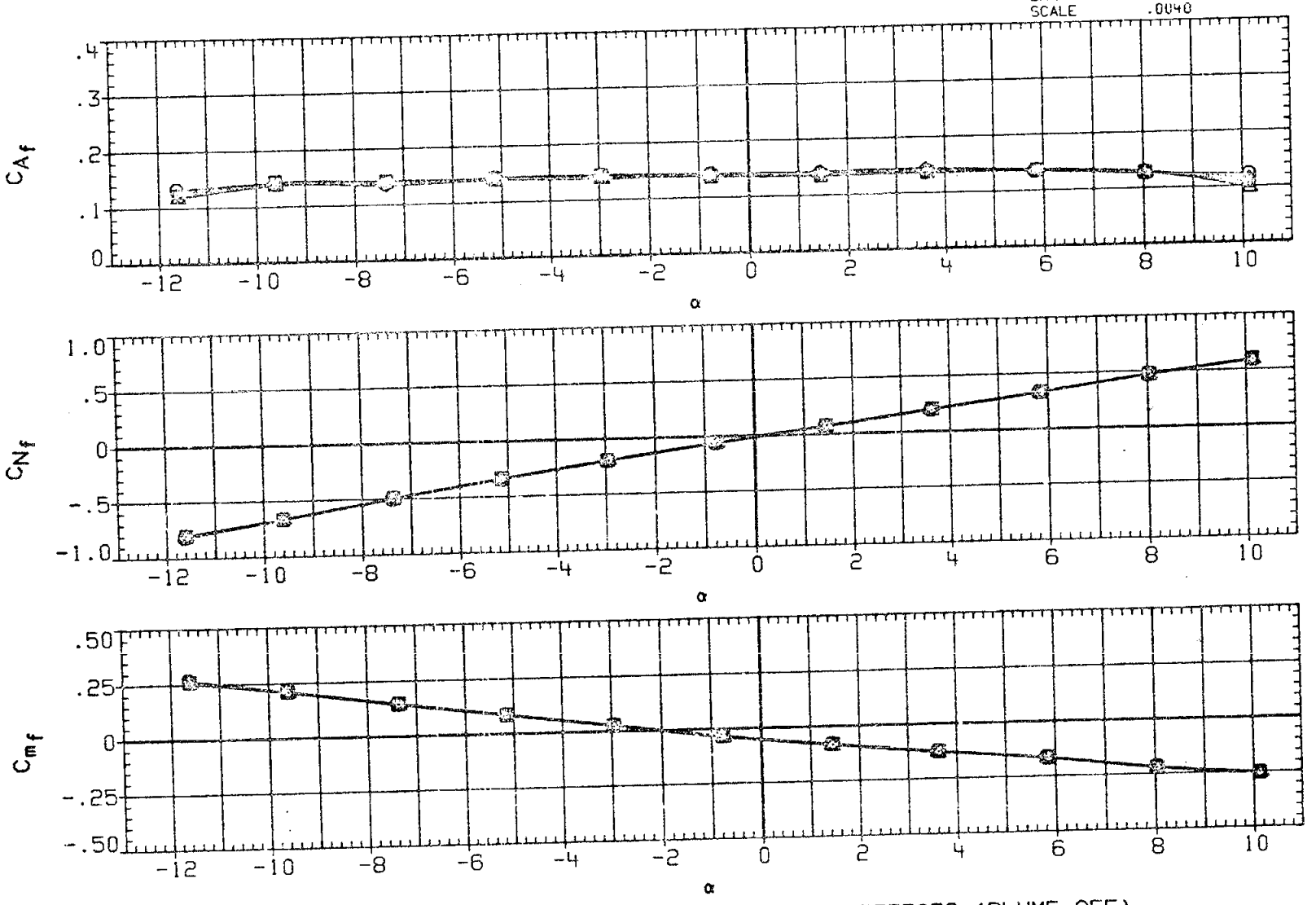


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(B) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692. O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6003	◇	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6004	△	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

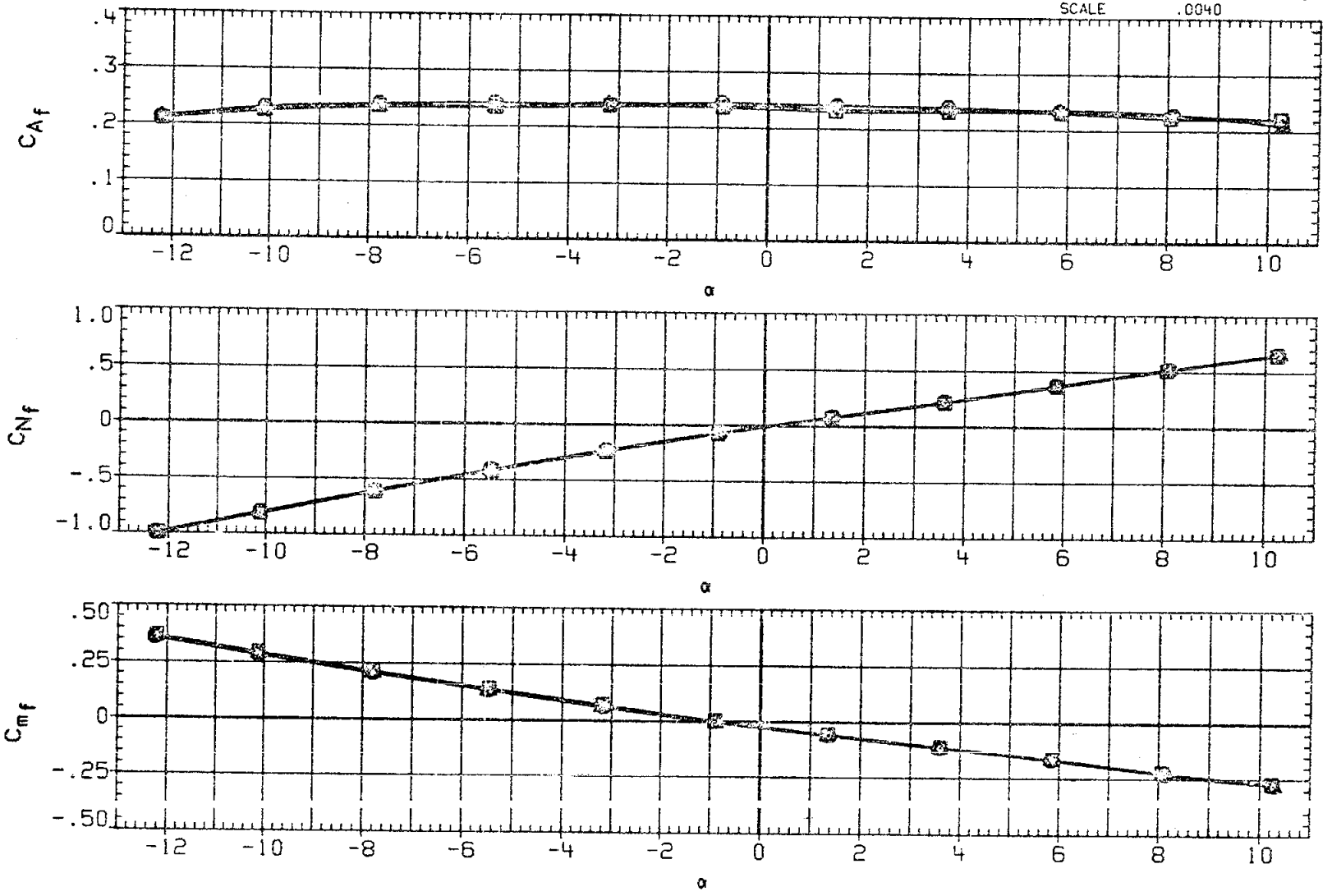


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA5001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

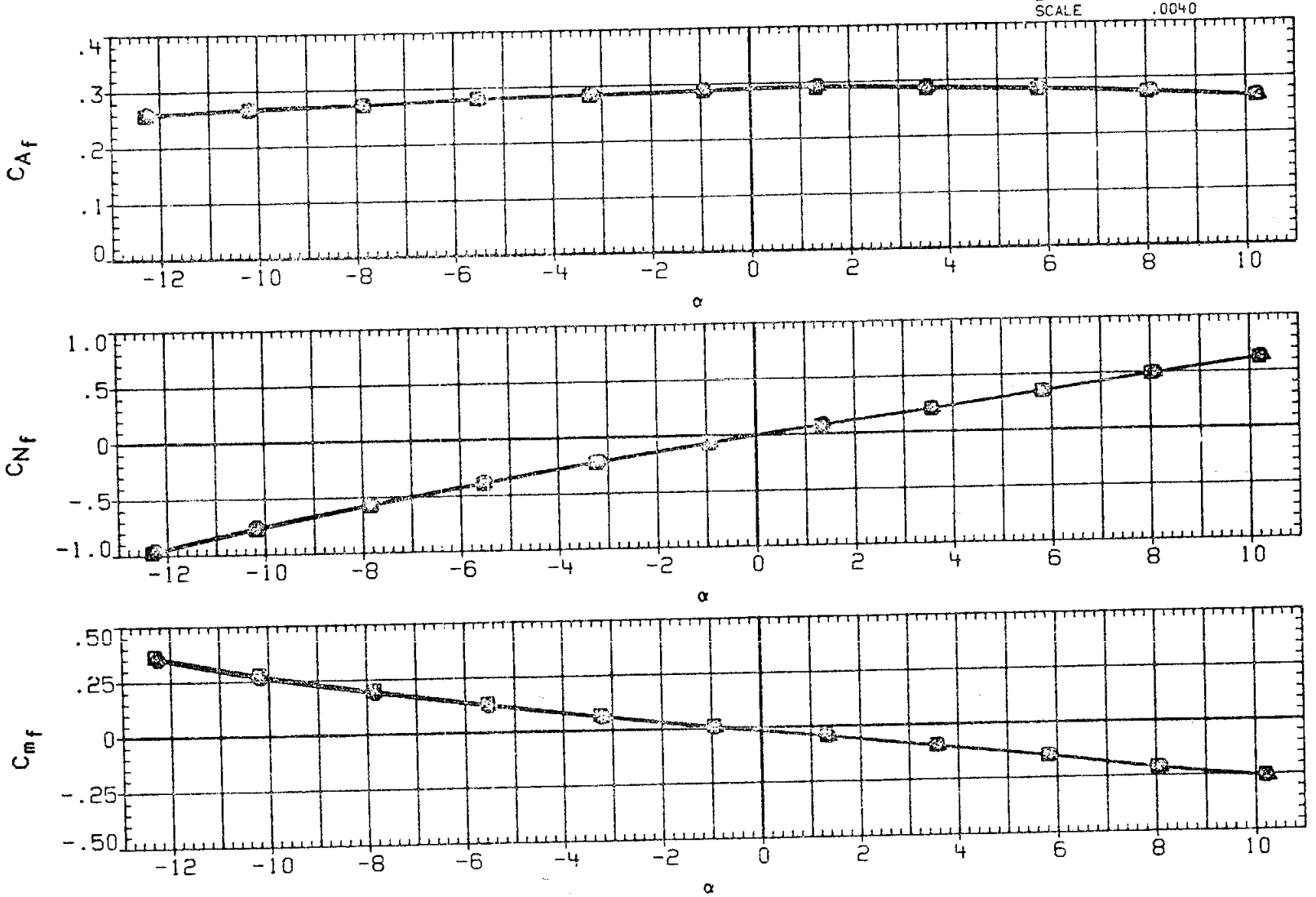


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, 0 T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,0TS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6003	◇	MSFC TWT 692,0TS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6004	△	MSFC TWT 692,0TS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

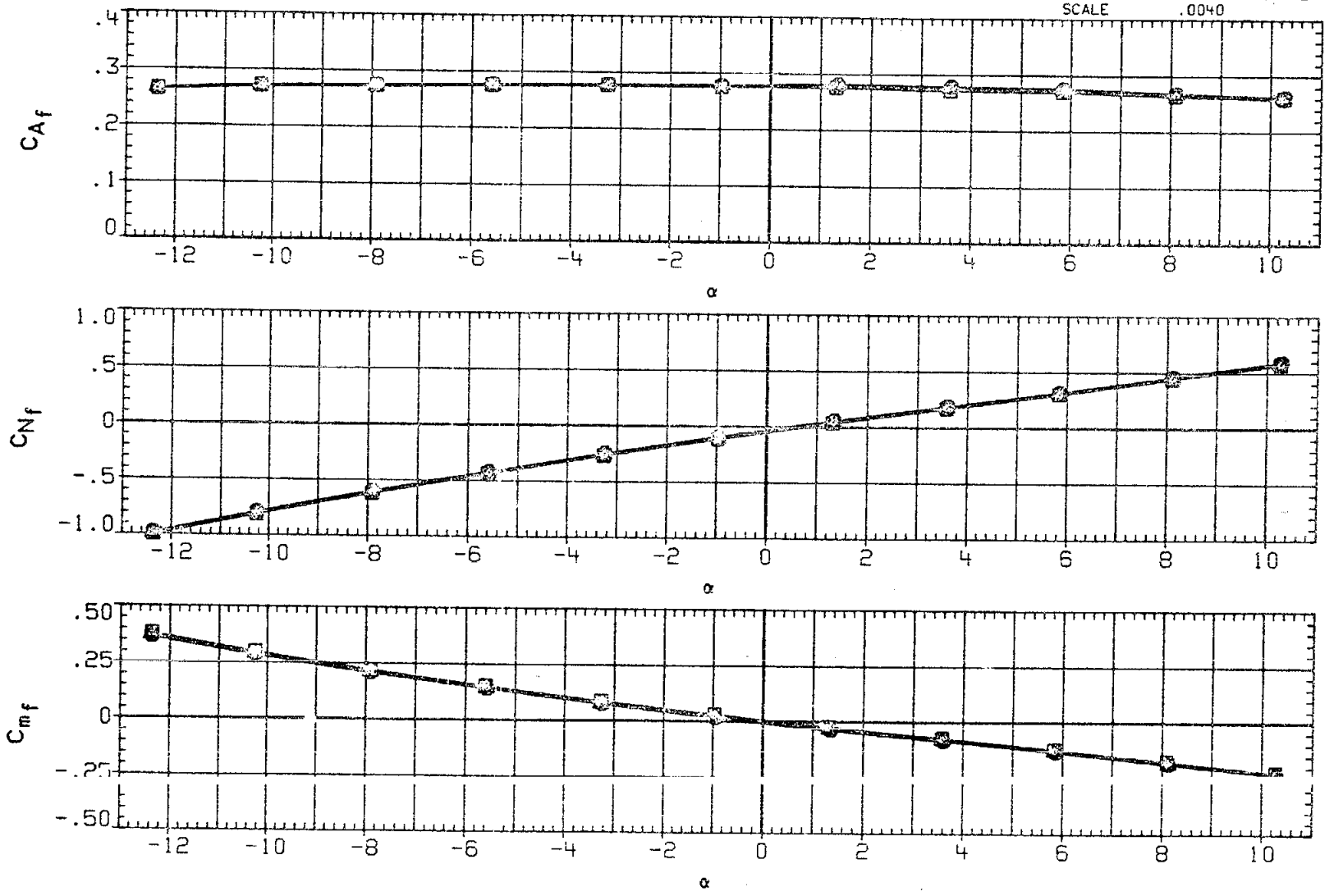


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

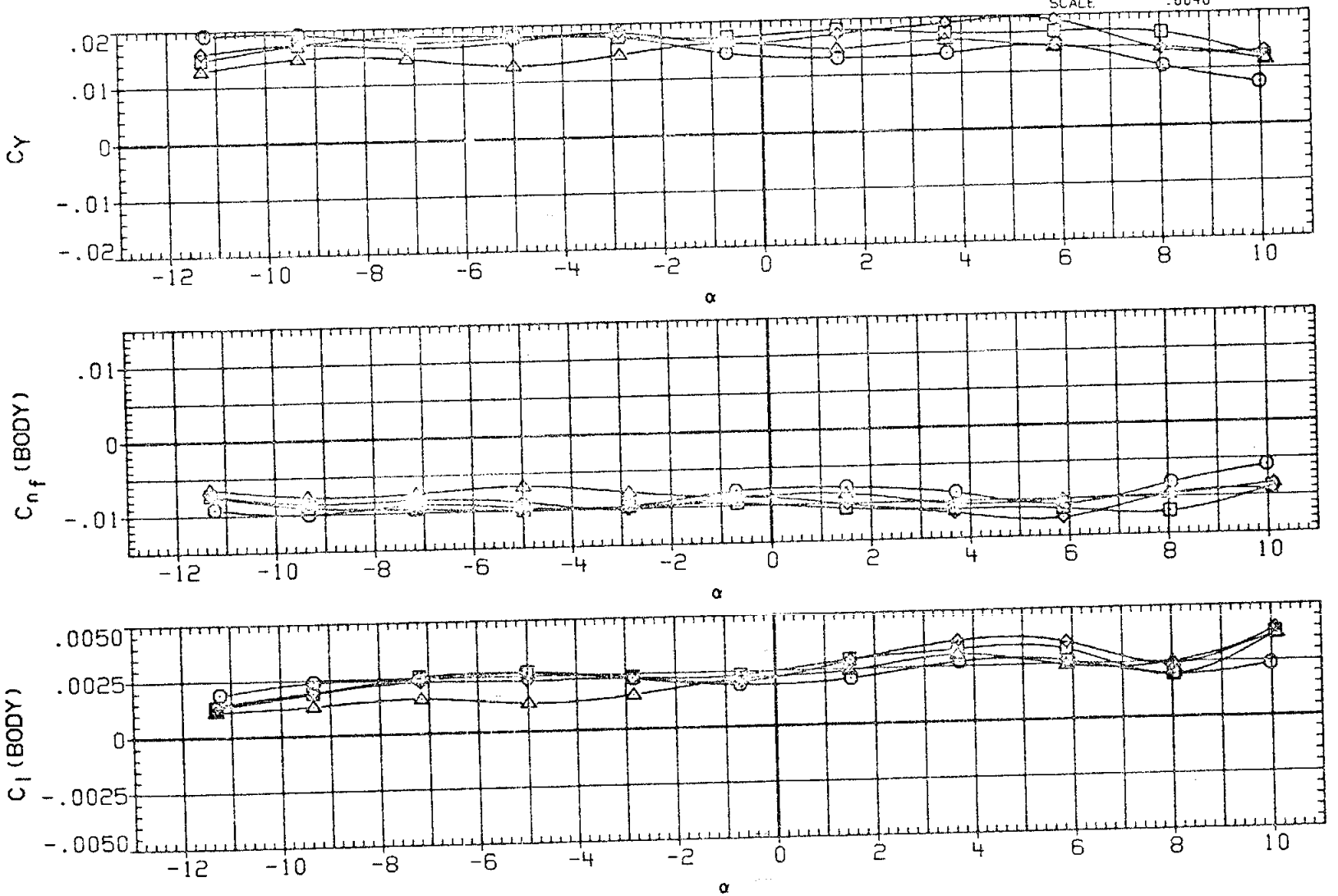


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A) MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	970.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

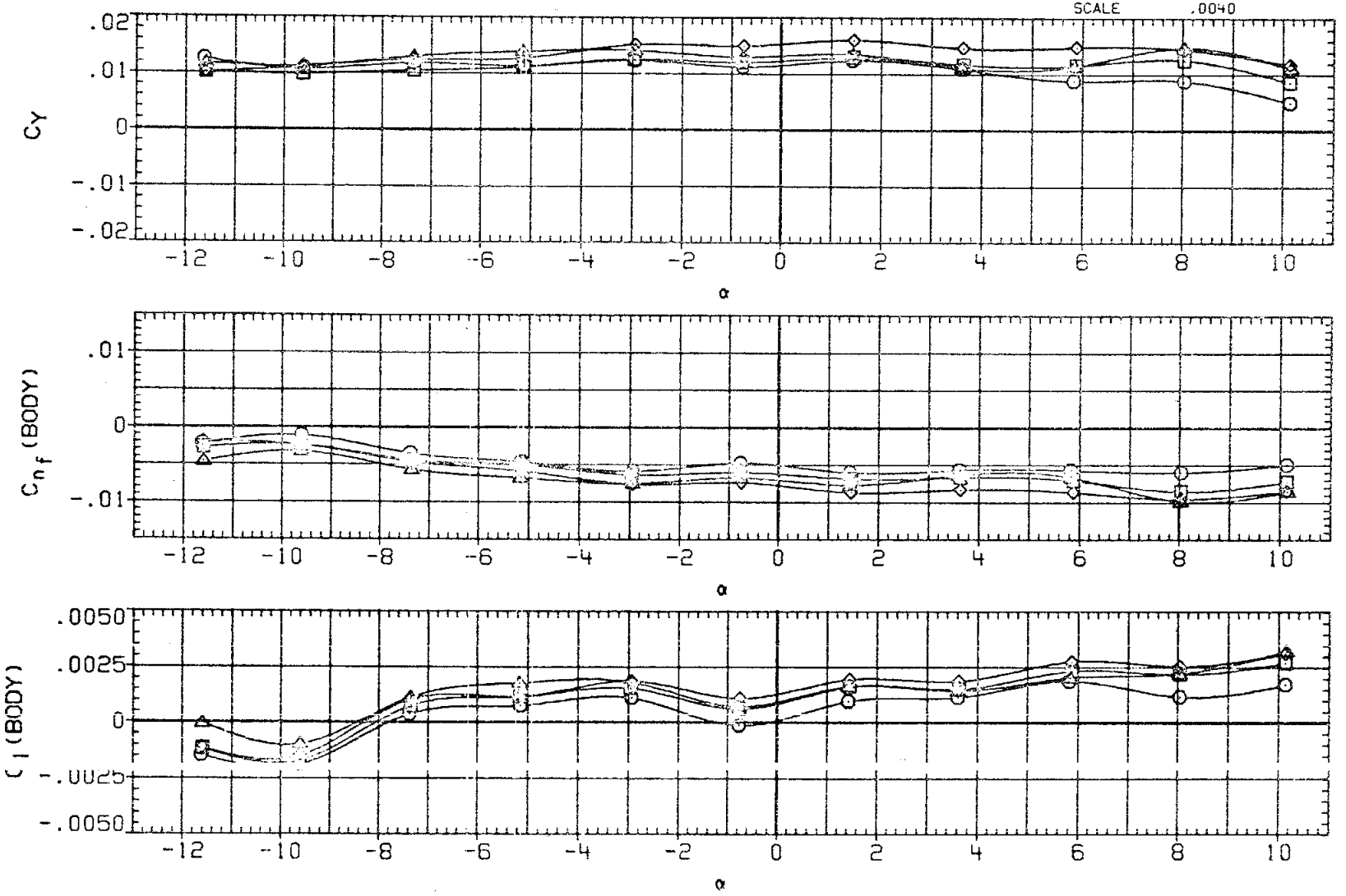


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

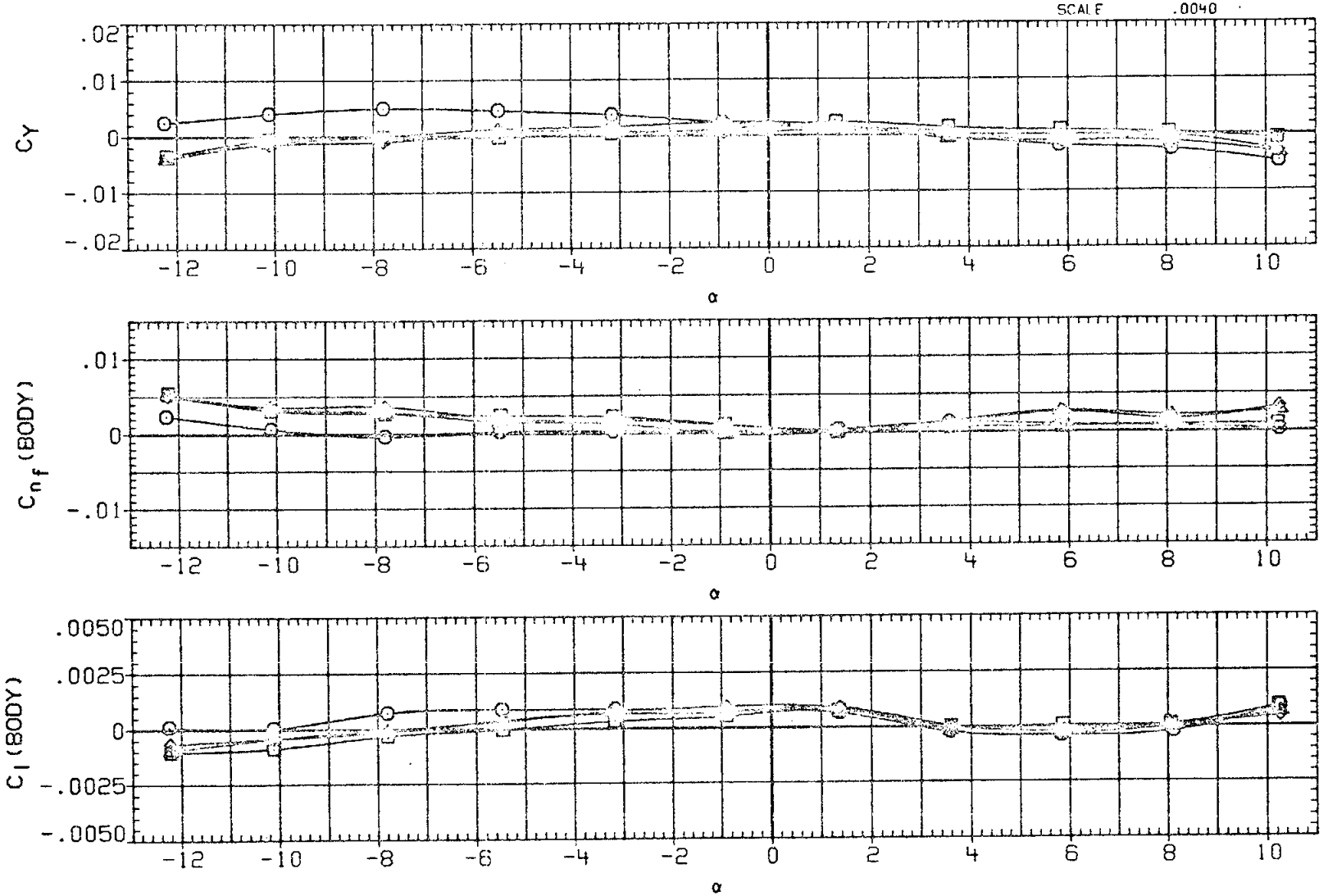


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

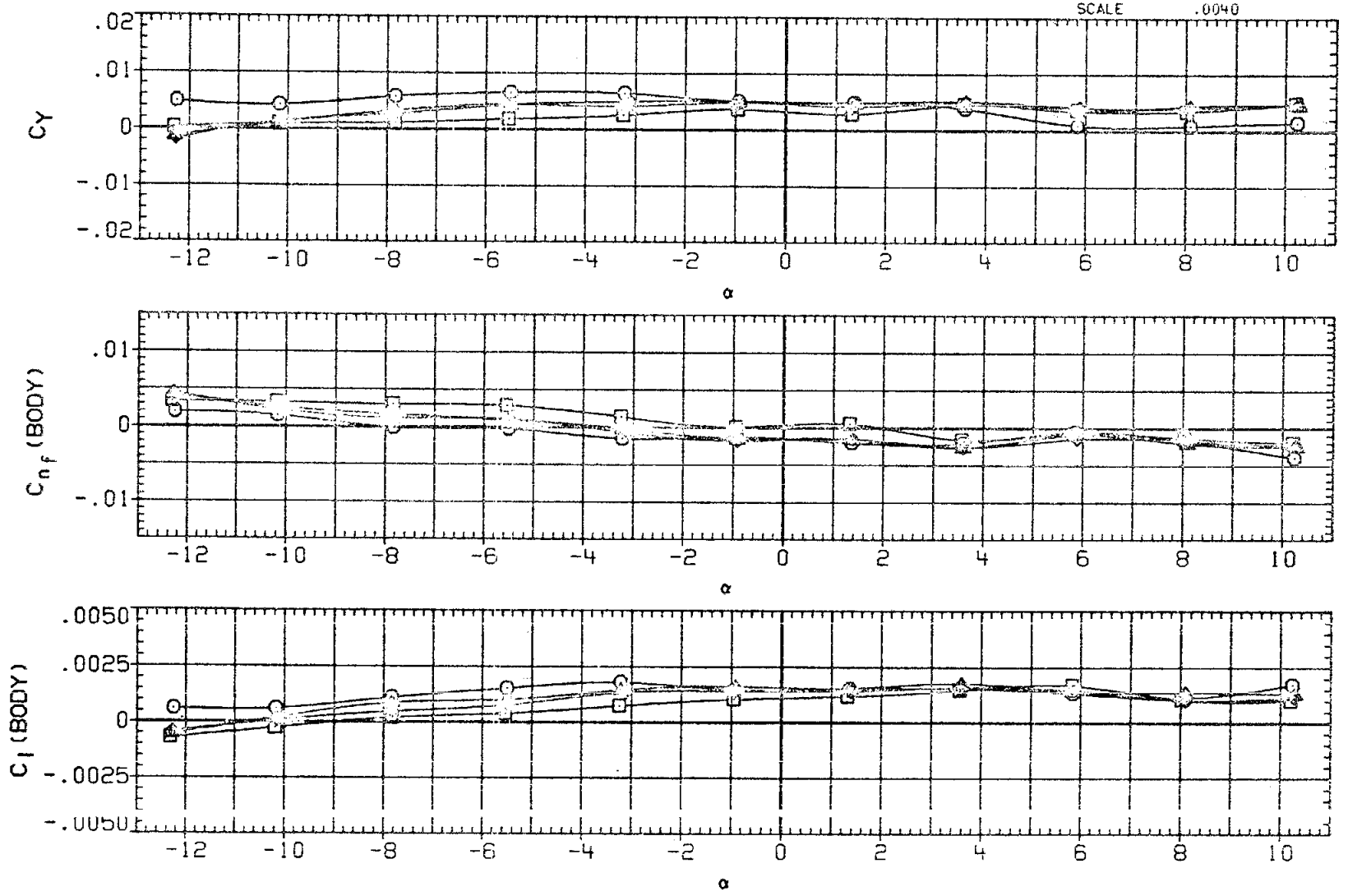


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

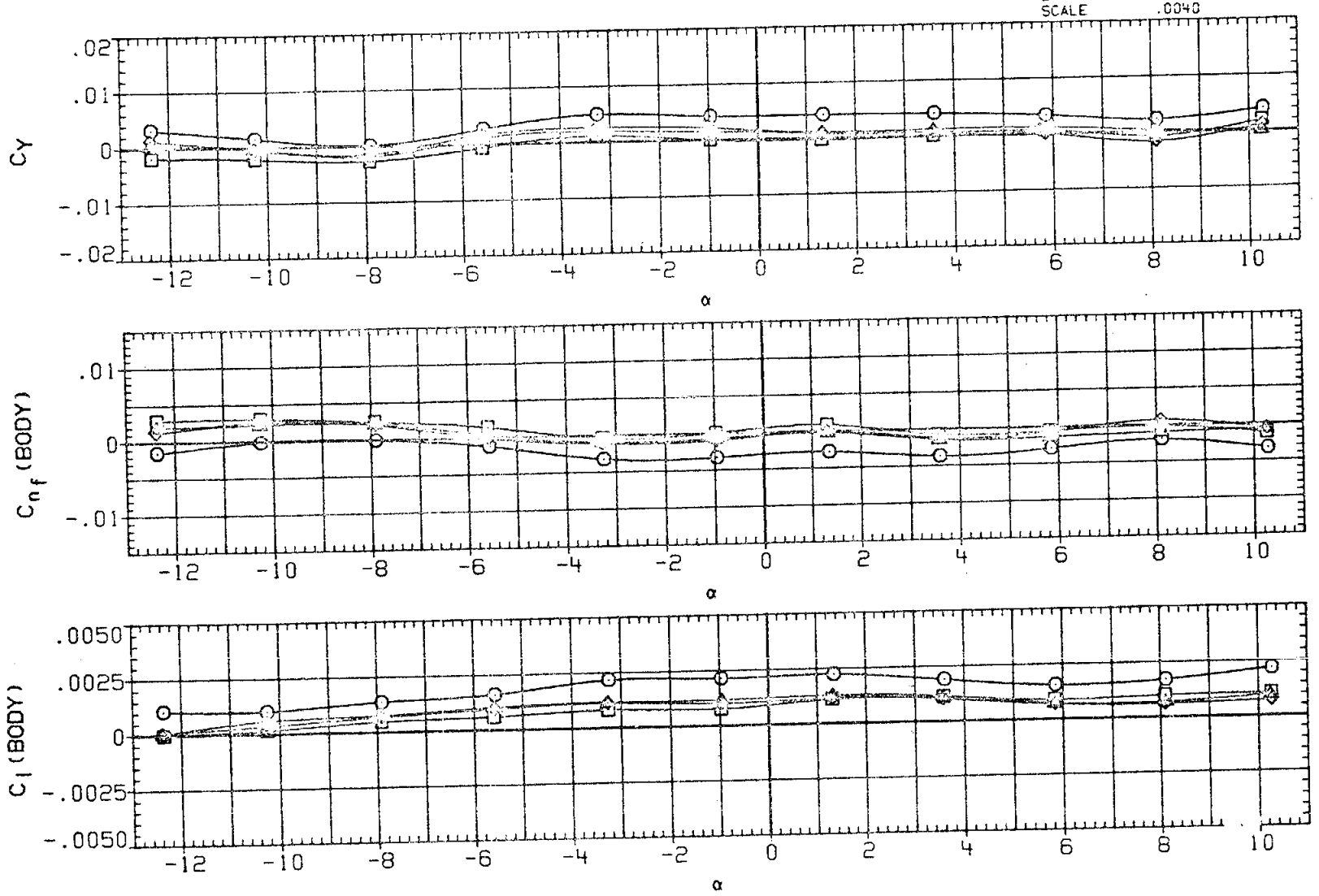


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

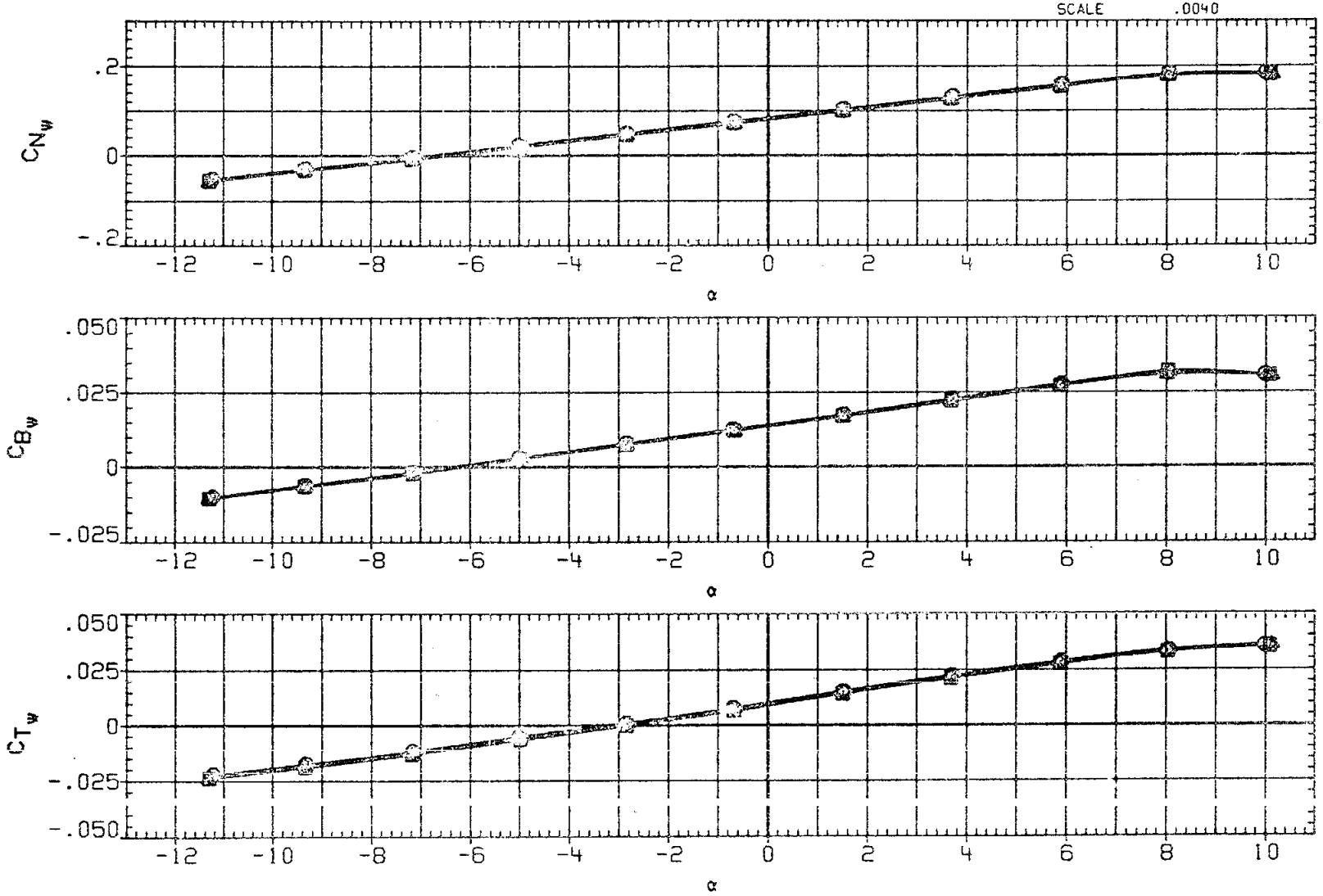


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A) MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

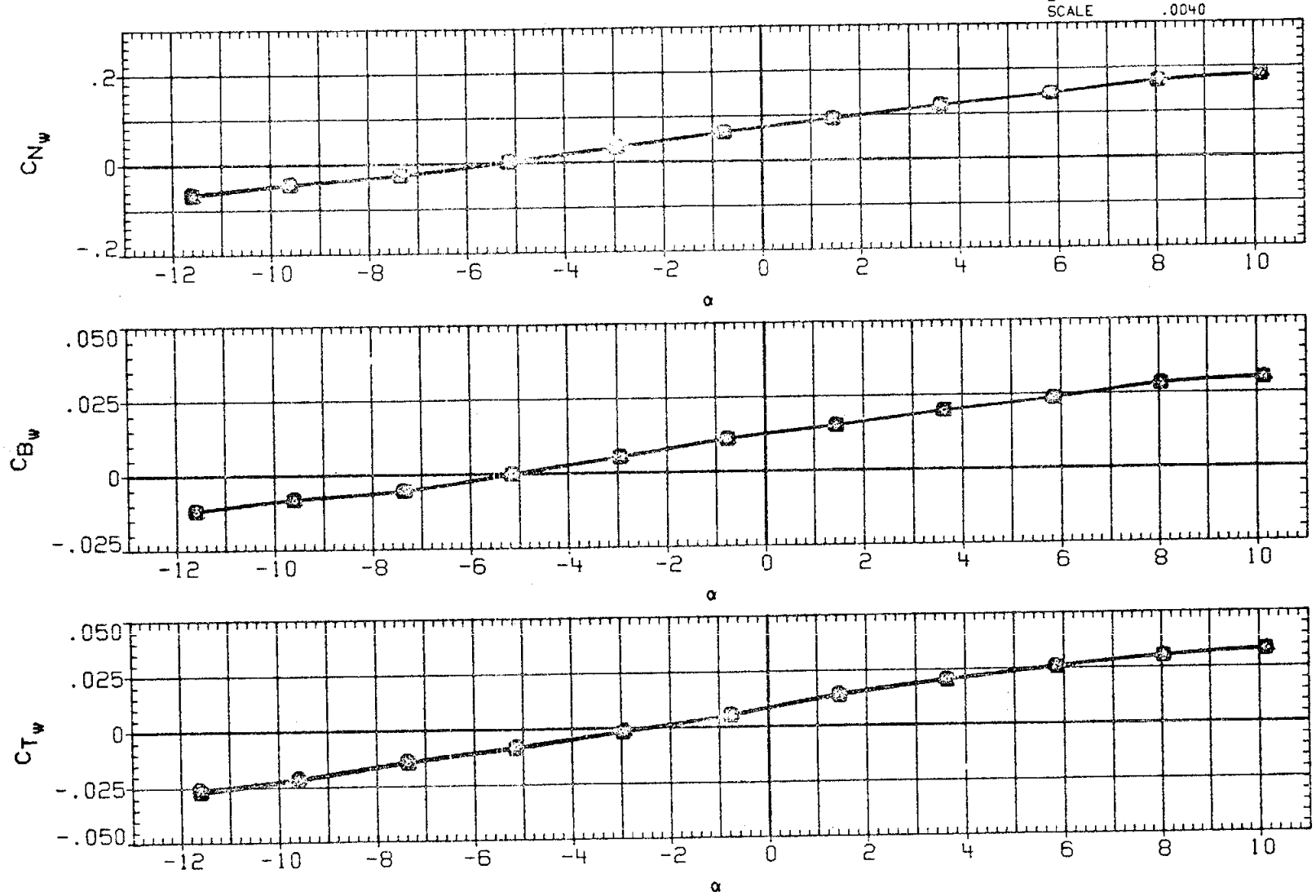


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION		
SREF	2693.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

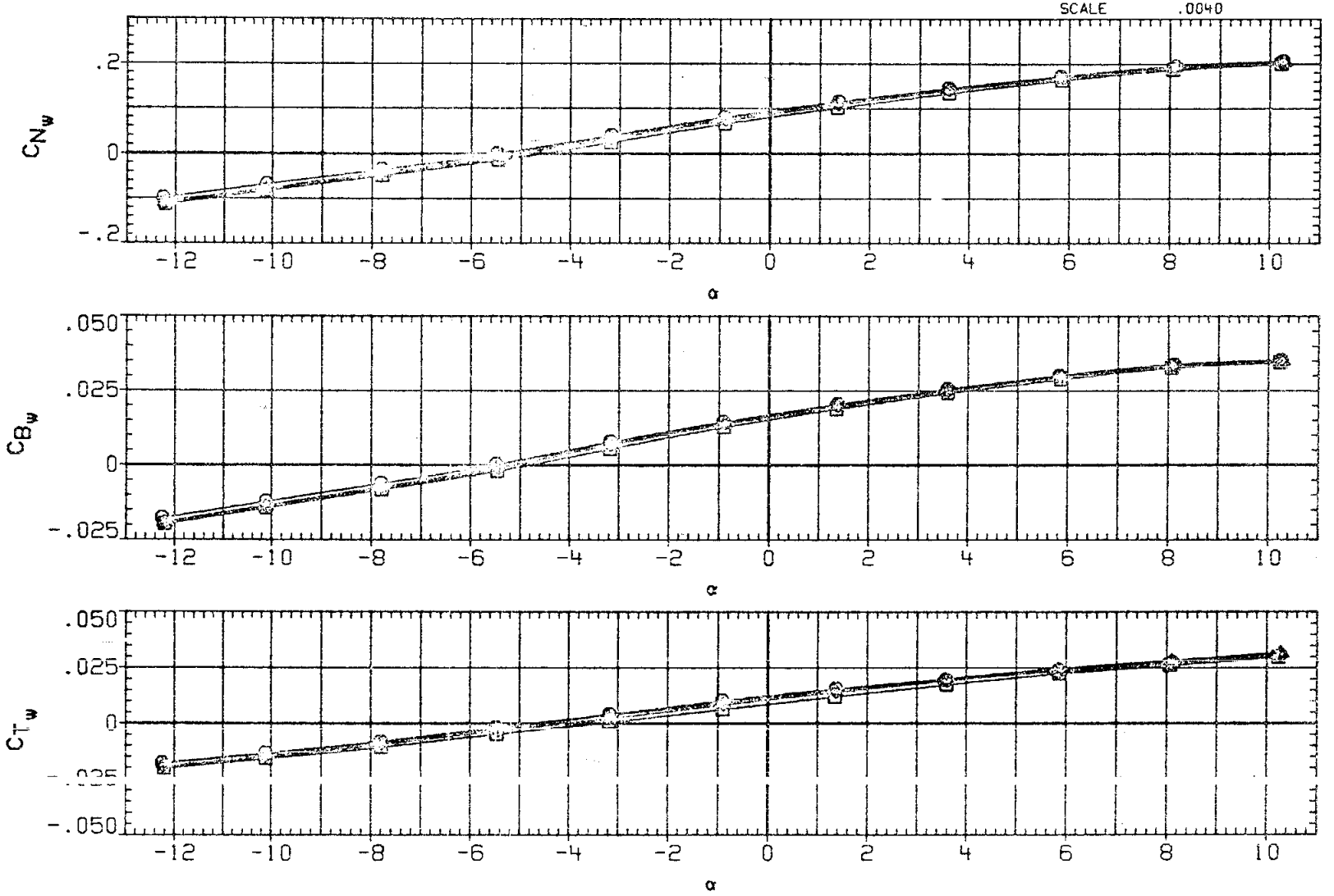


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

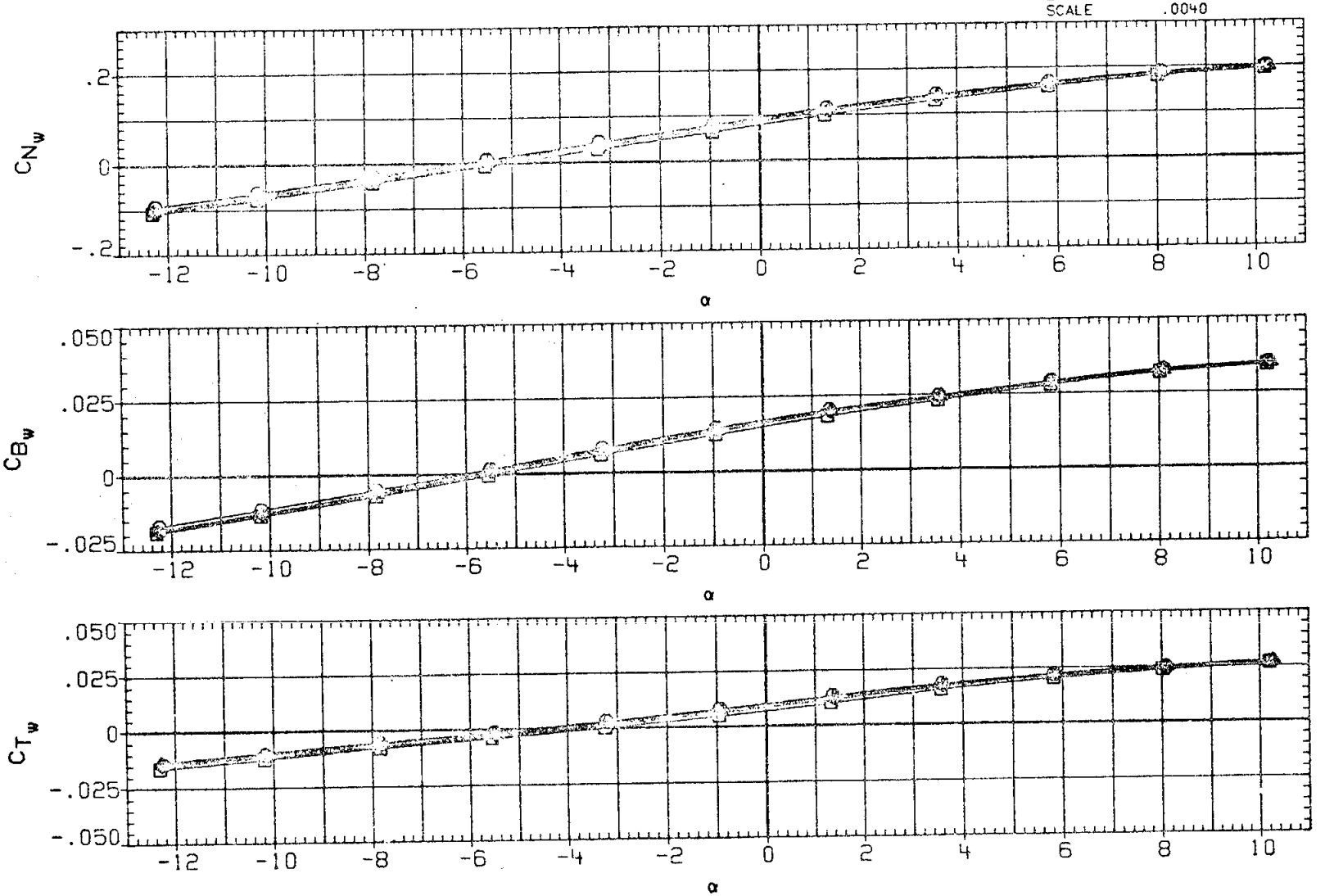


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

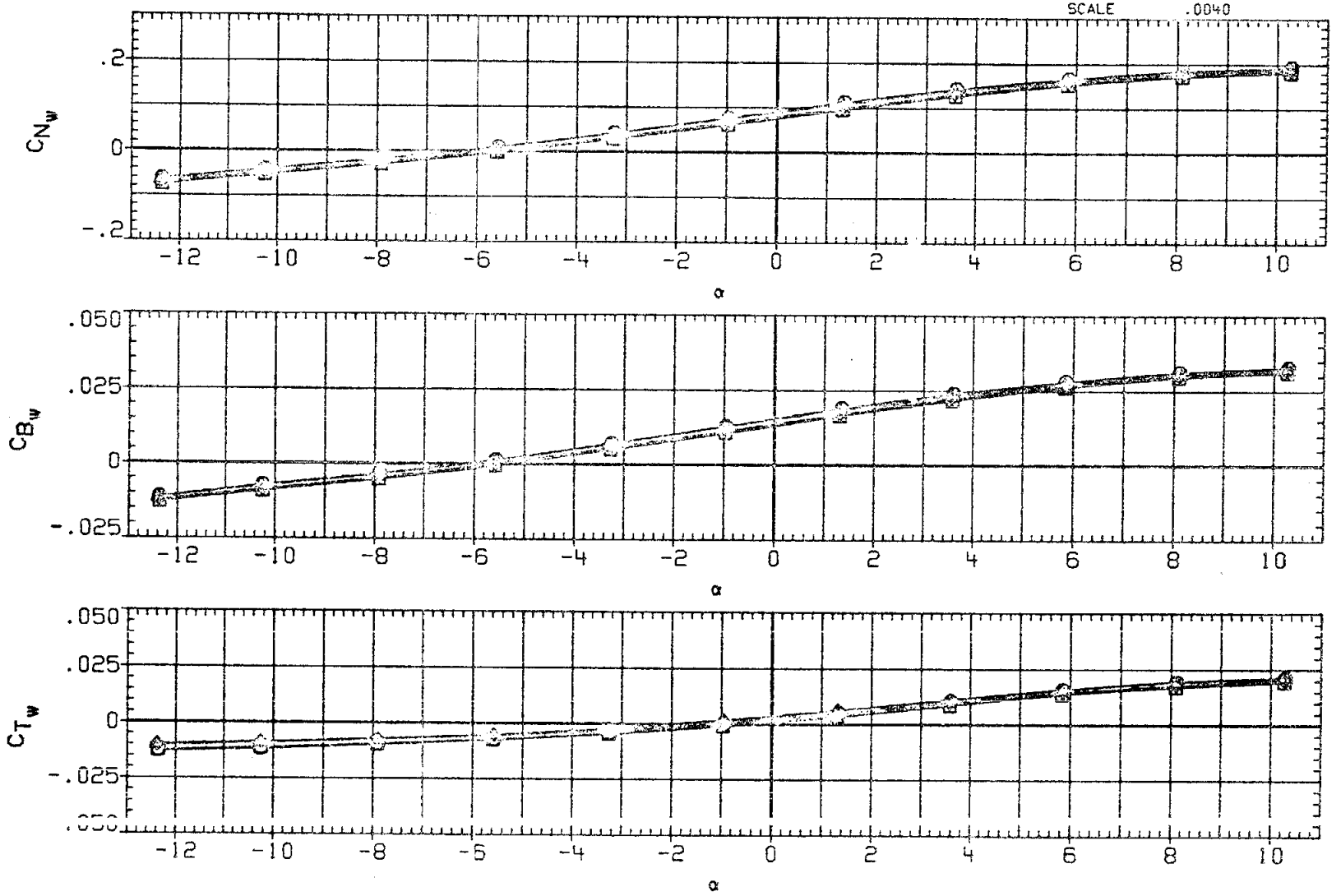


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

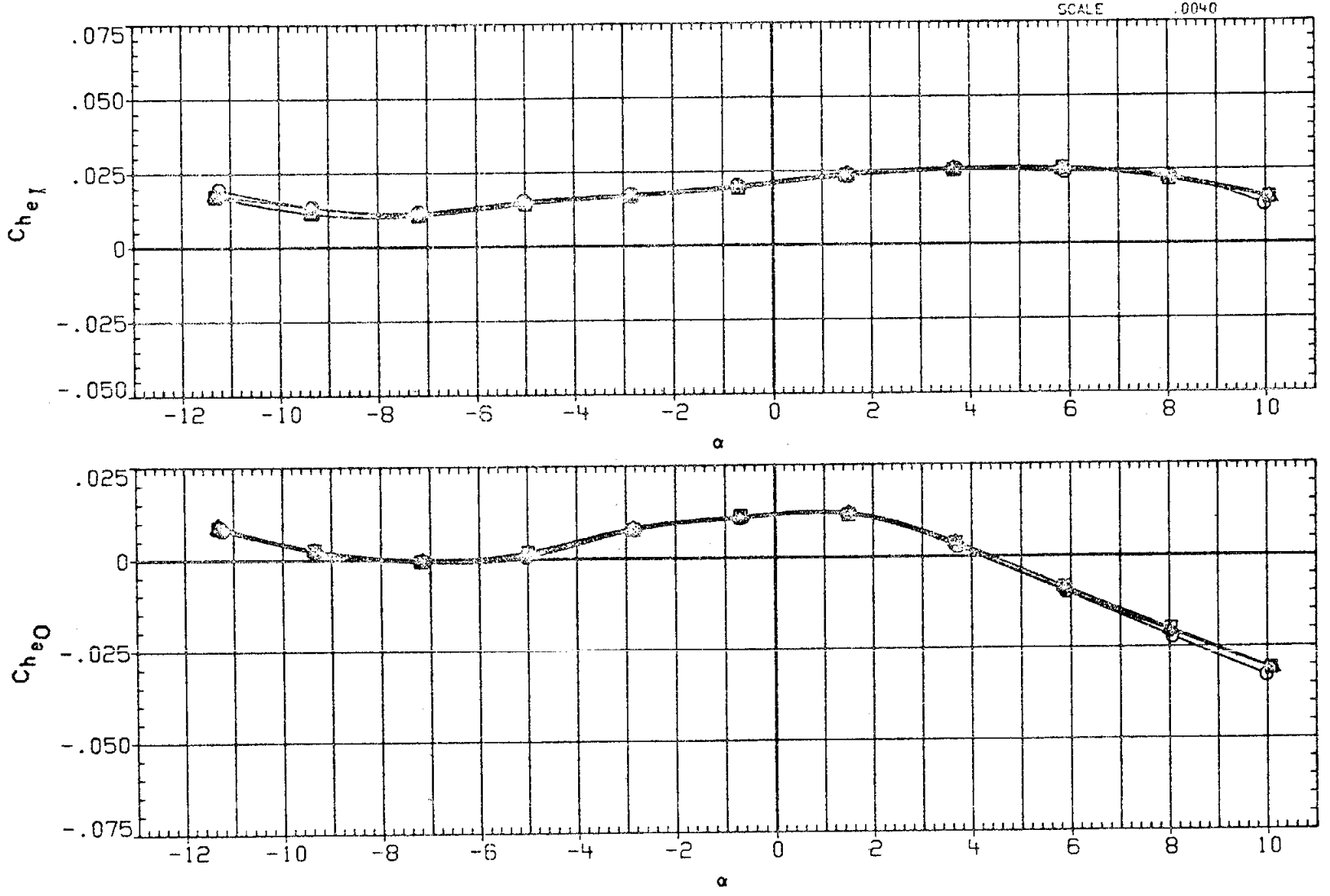


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

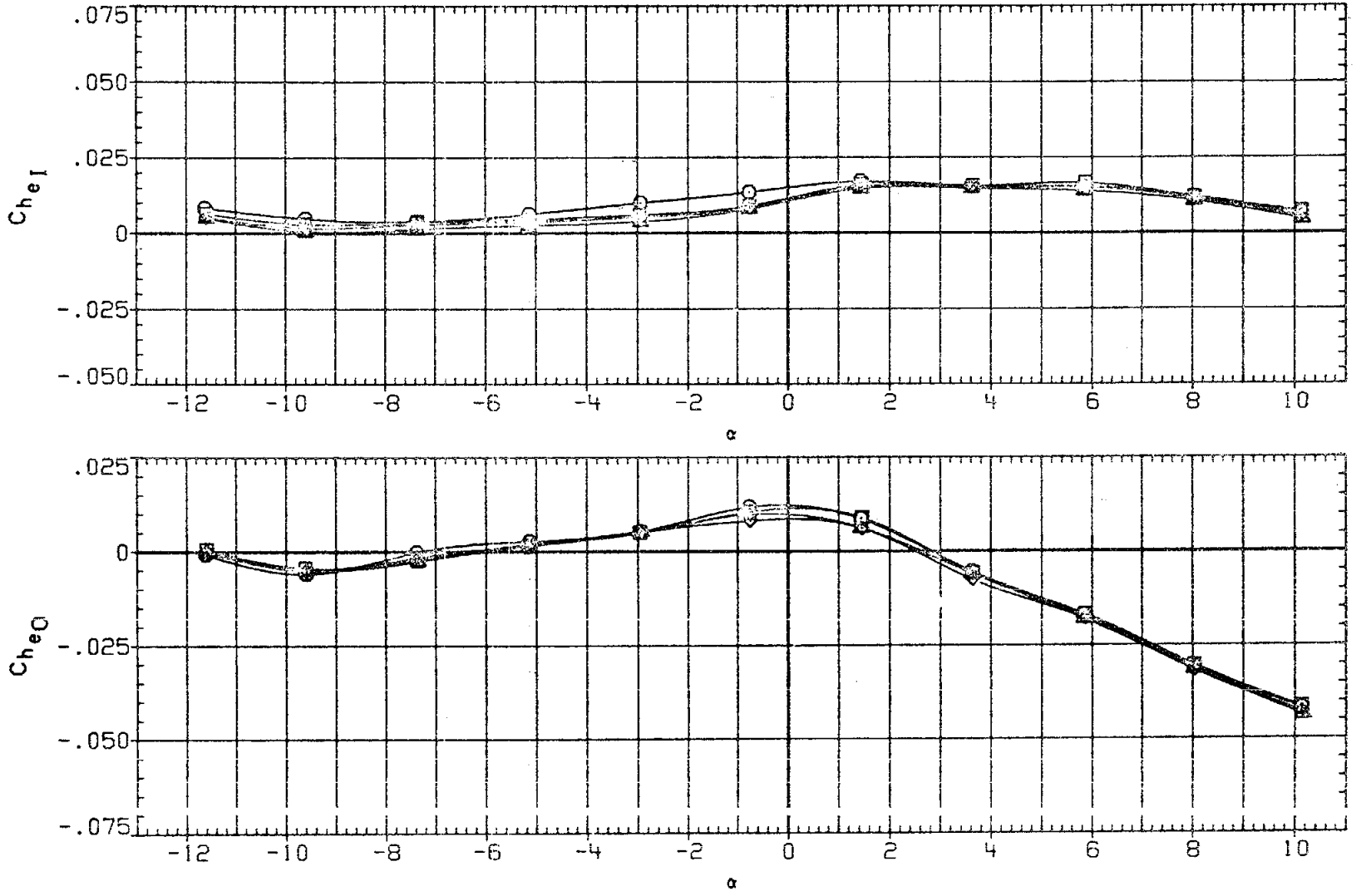


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692. O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6003	◇	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6004	△	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

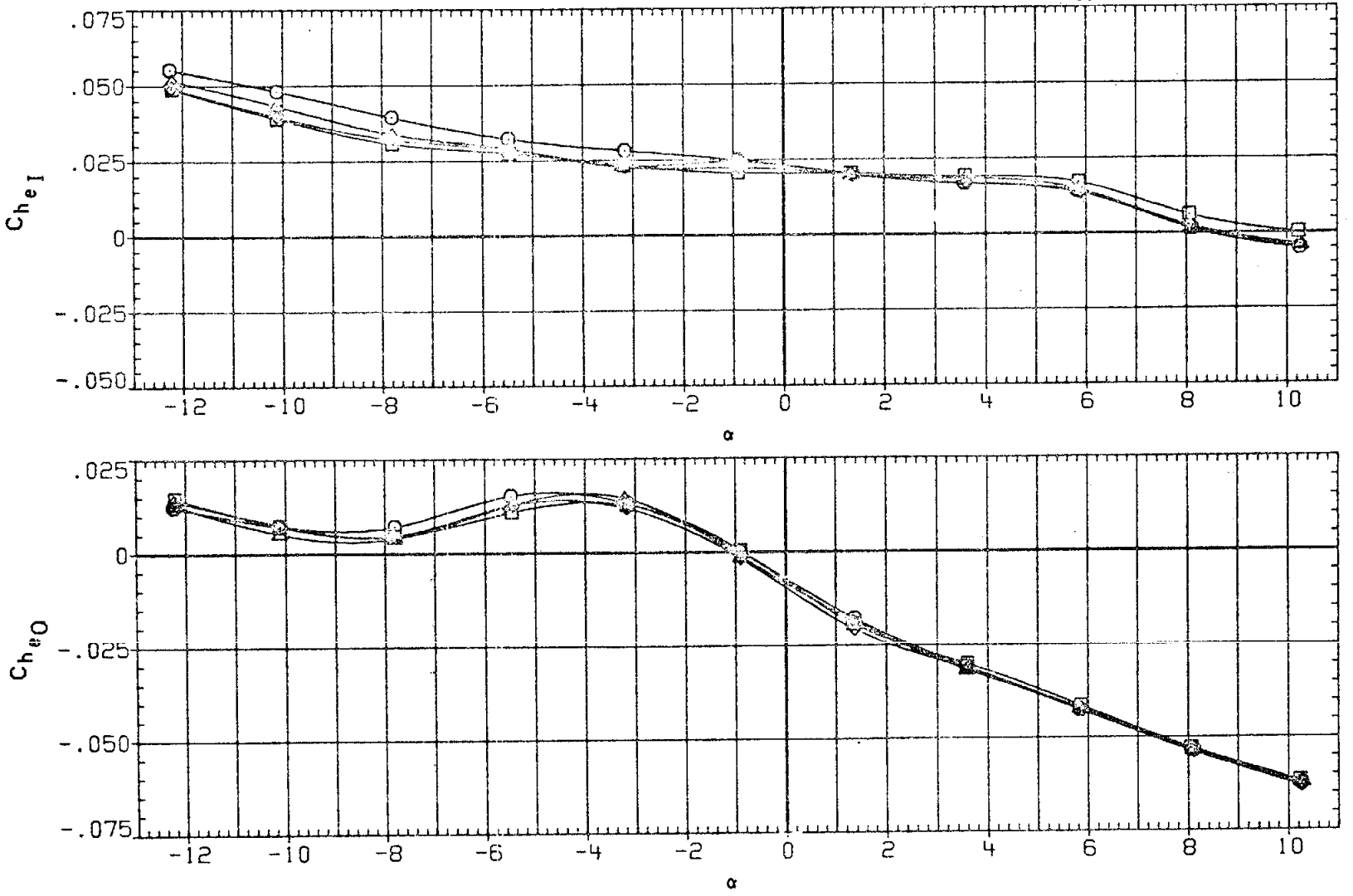


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

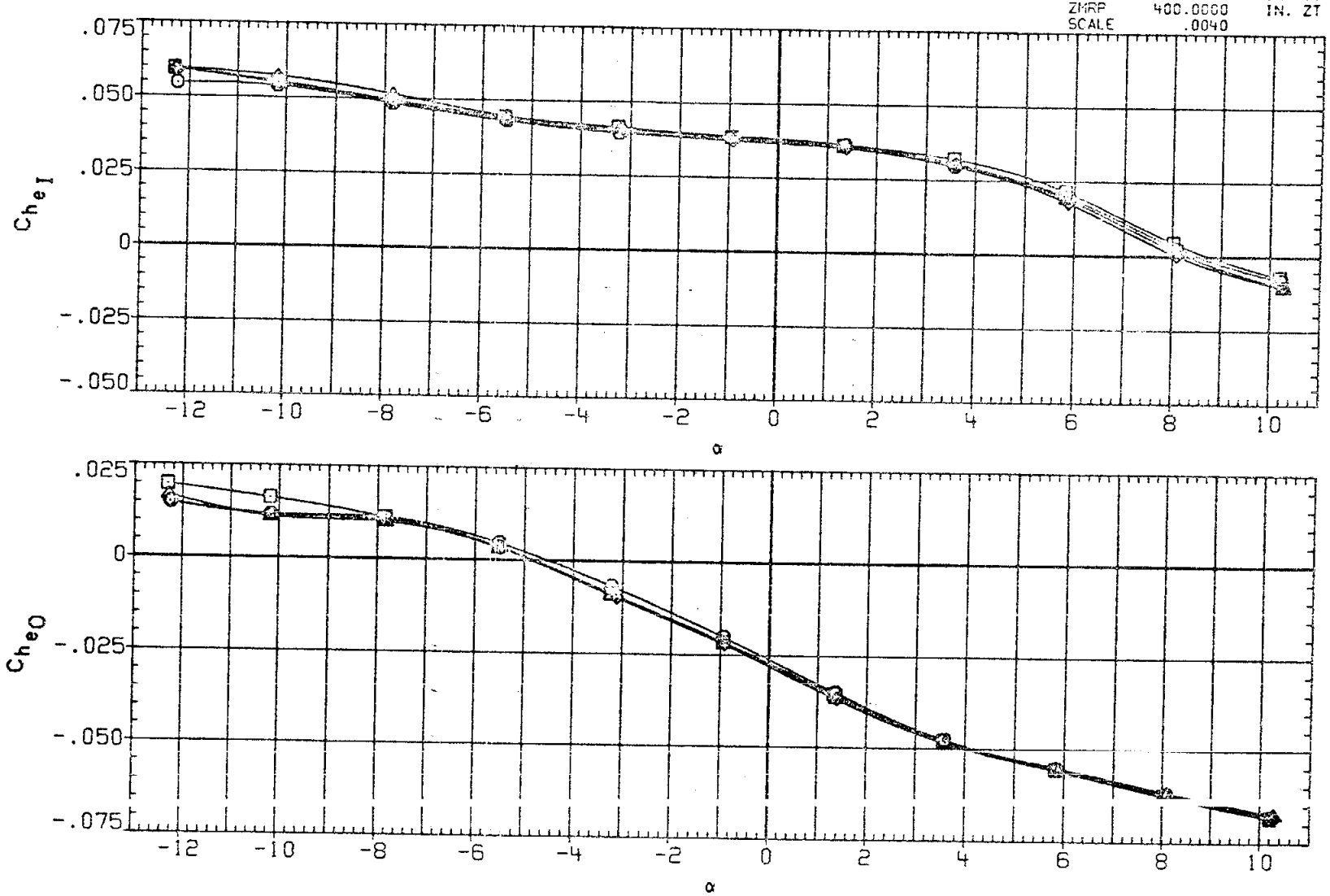


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6003	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6004	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2890.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

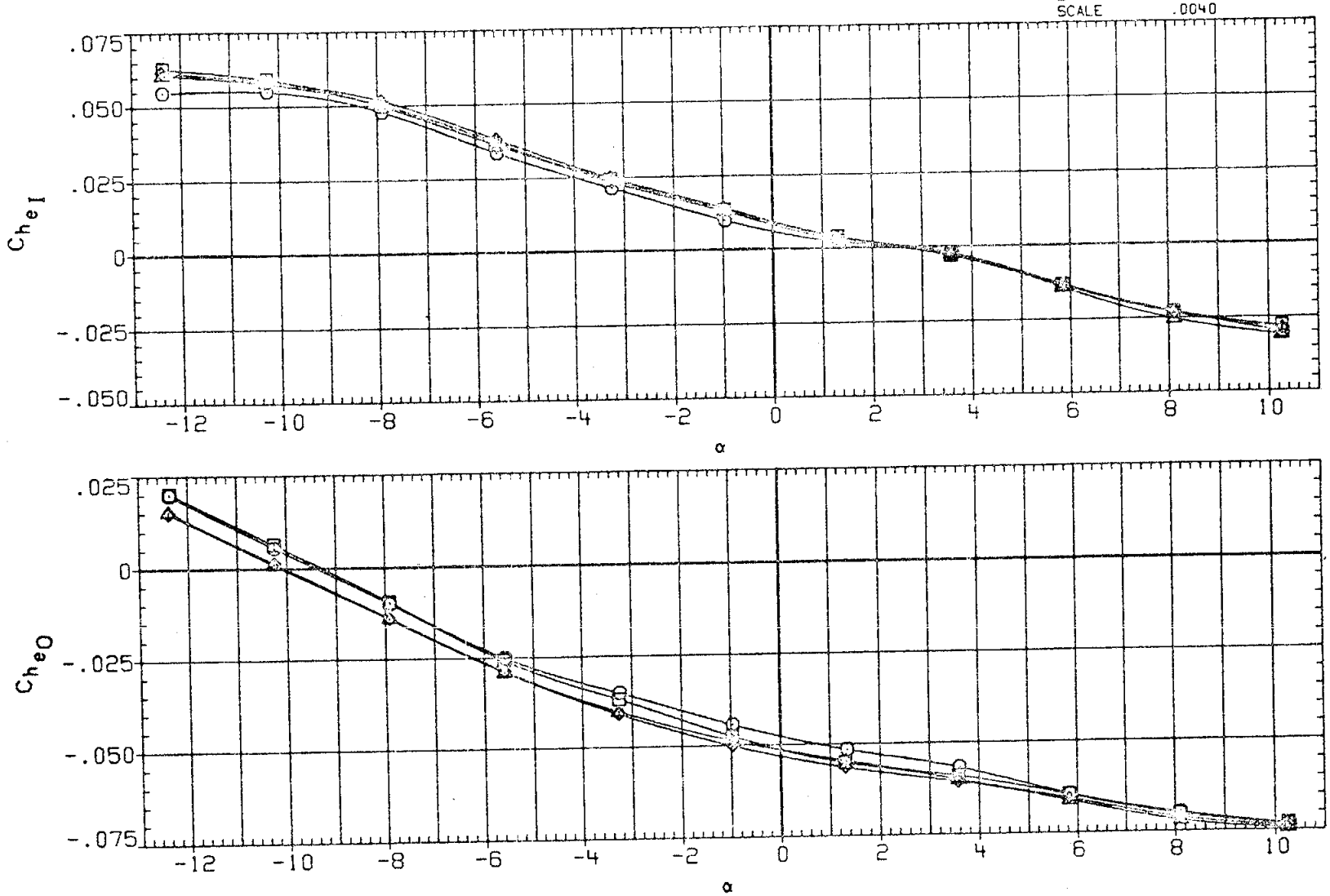


FIG. 4 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

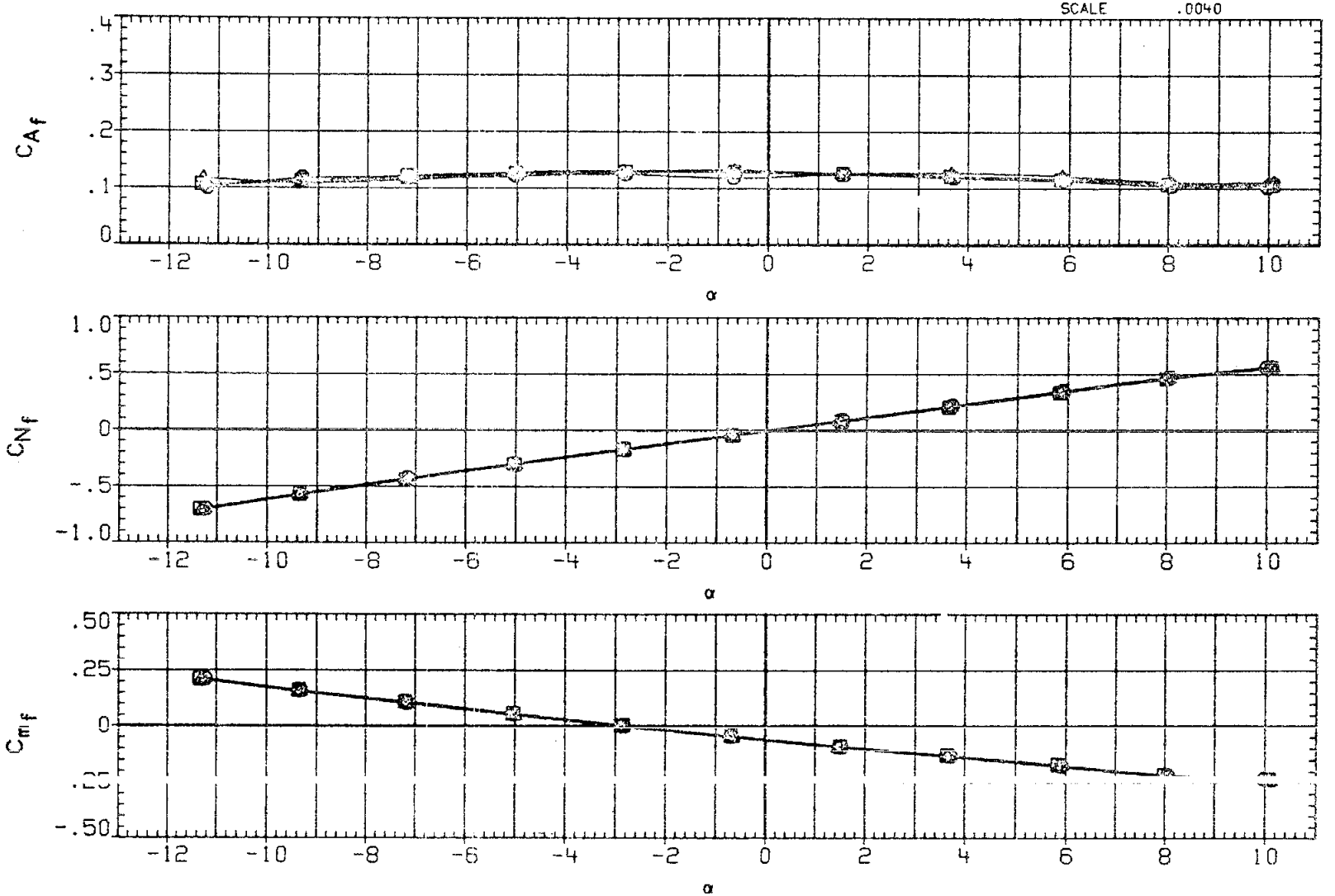


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

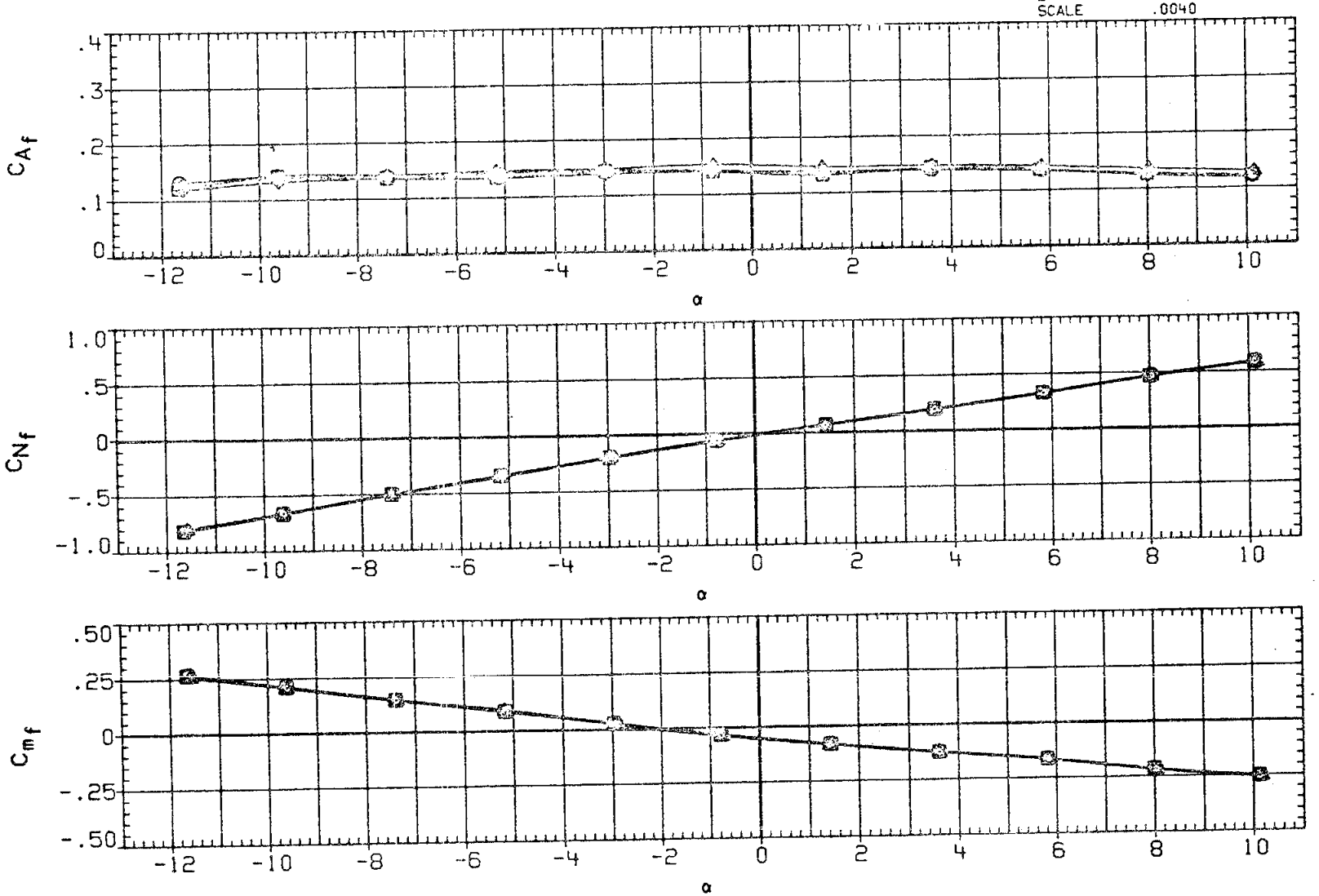


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

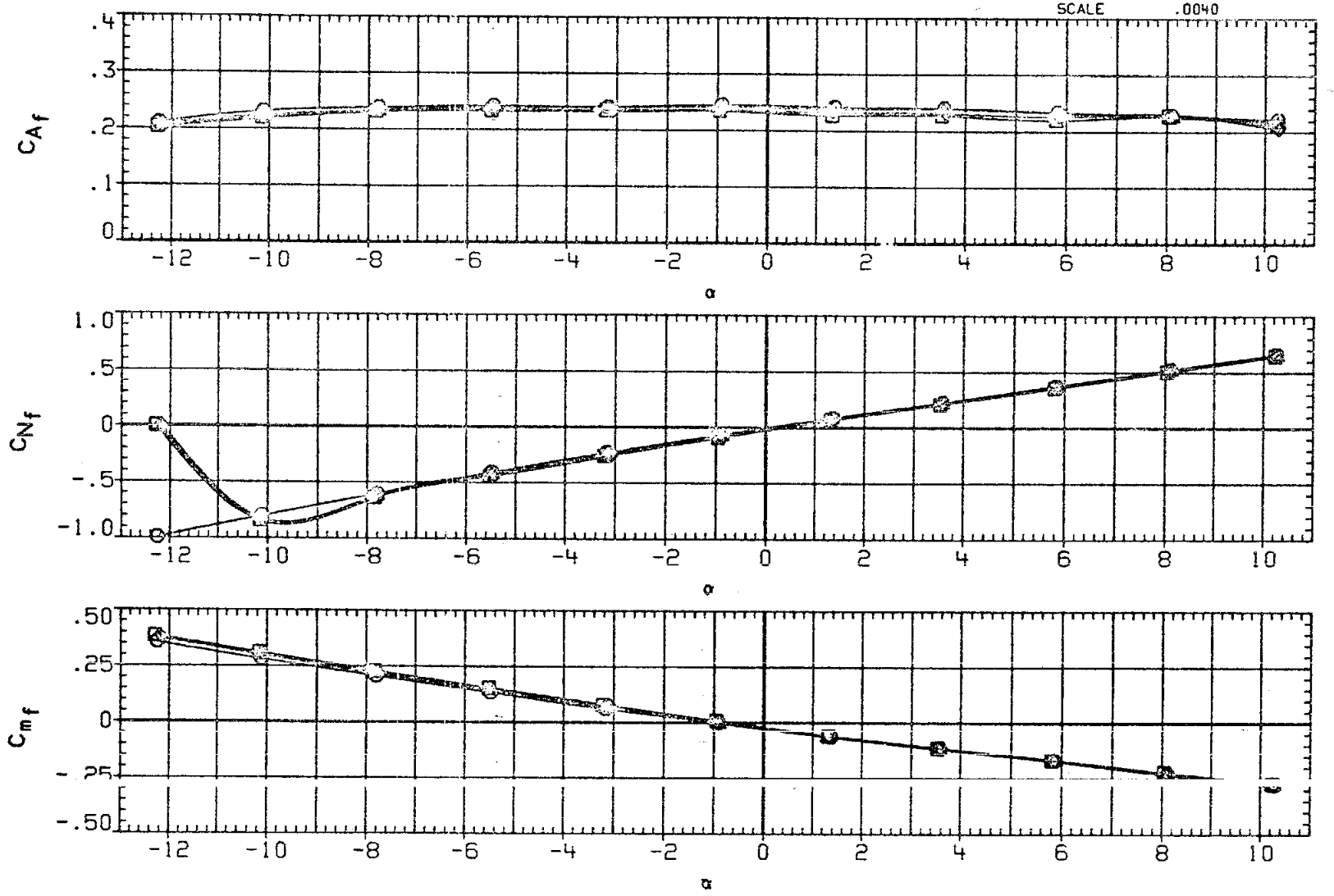


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

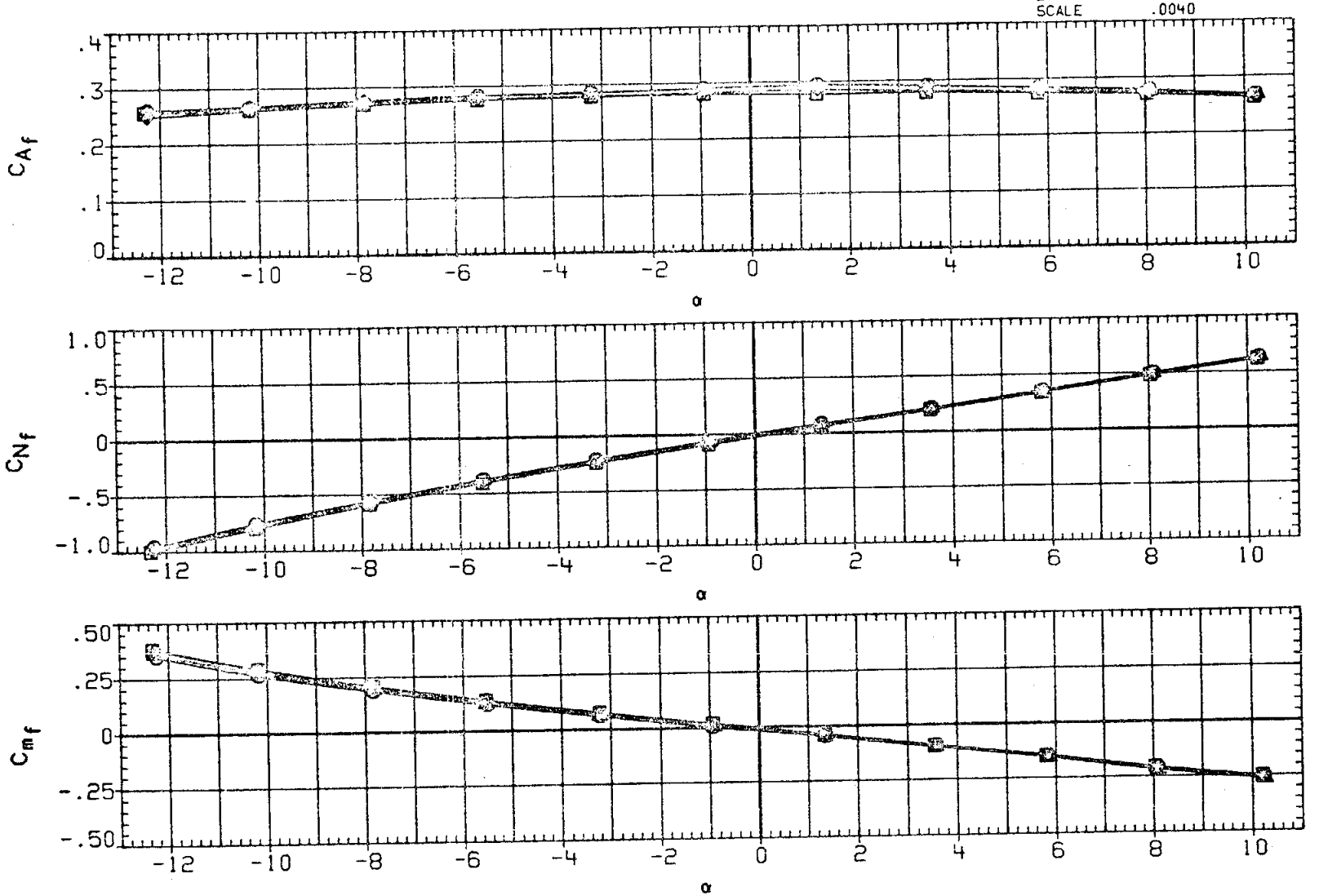


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

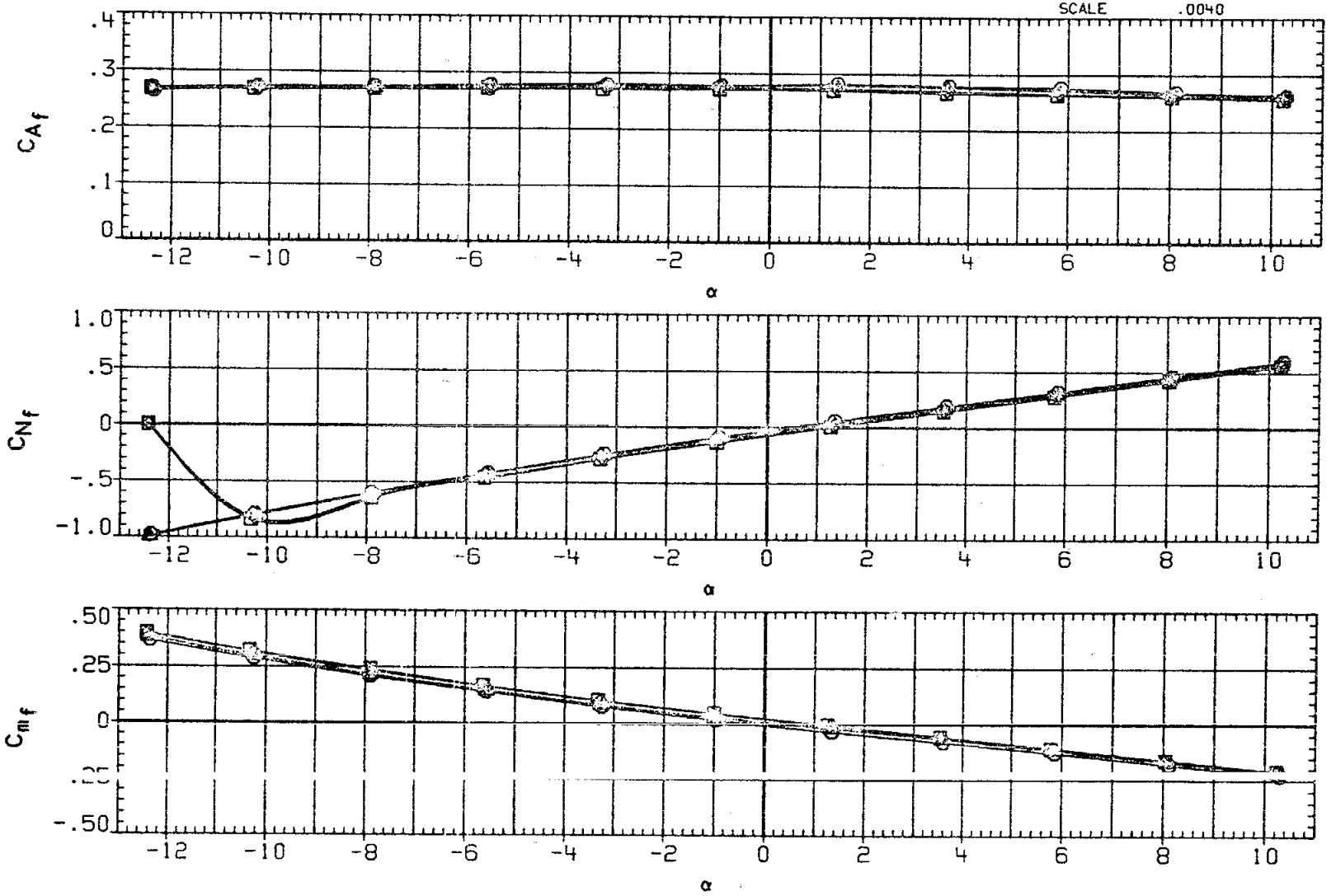


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

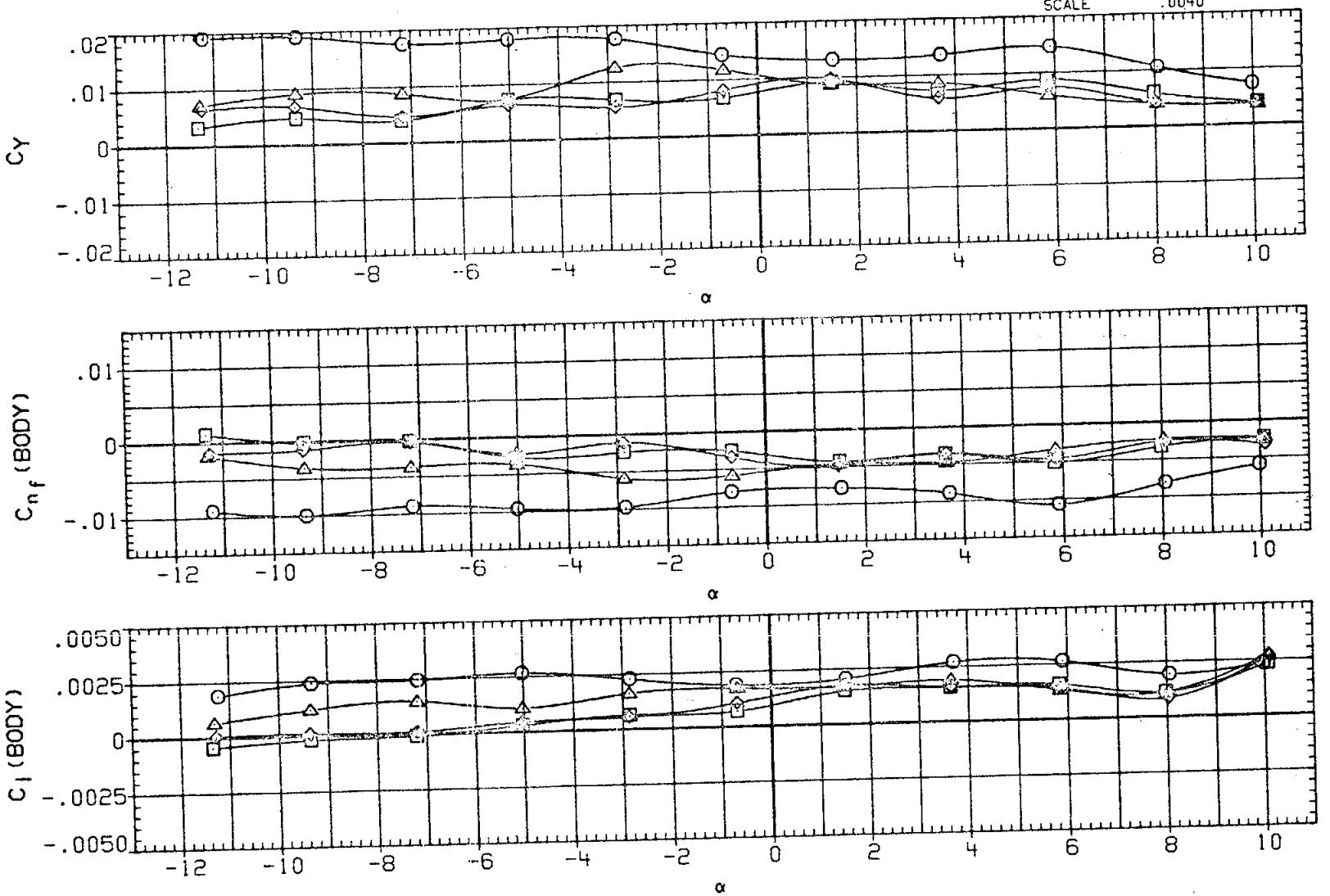


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

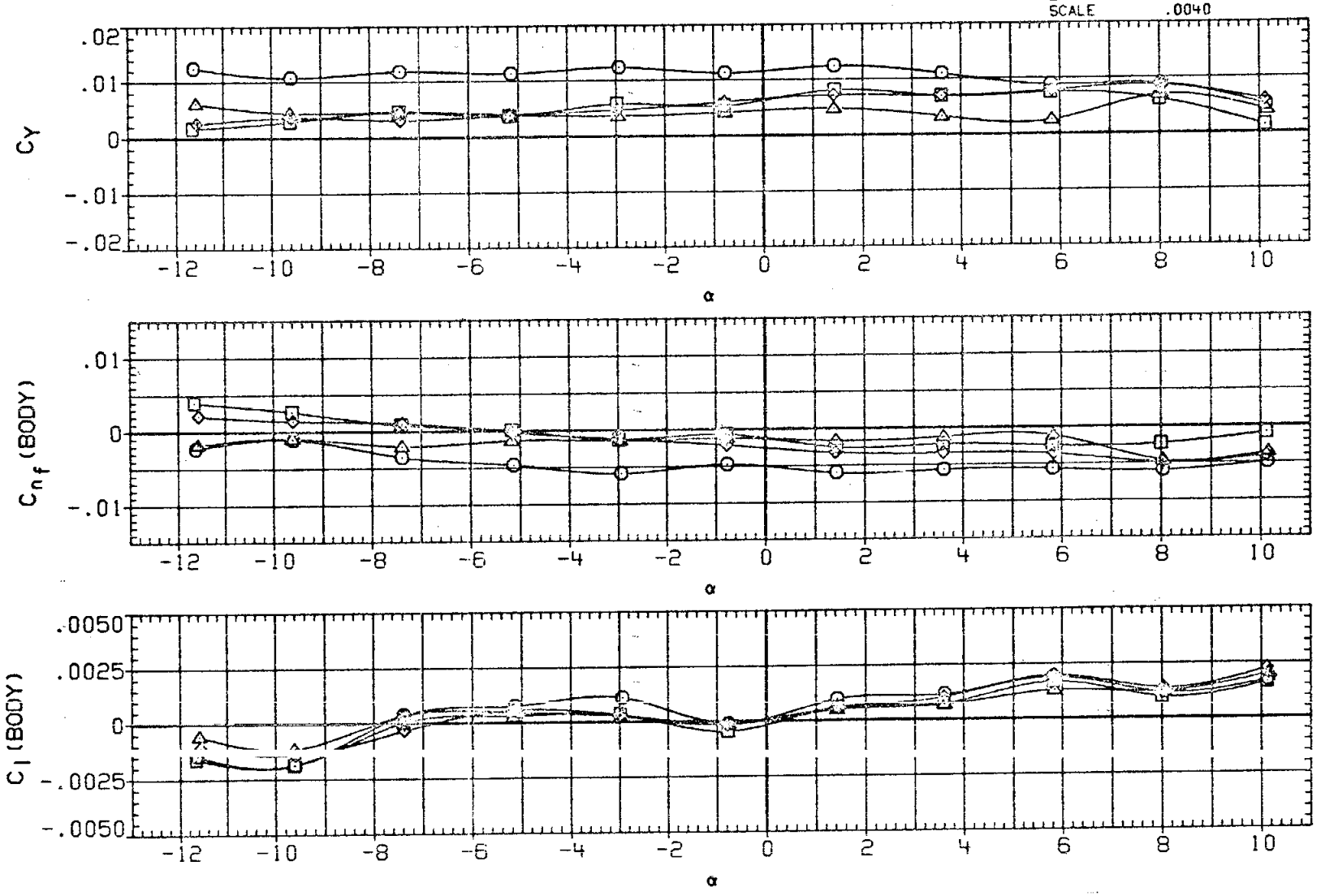


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

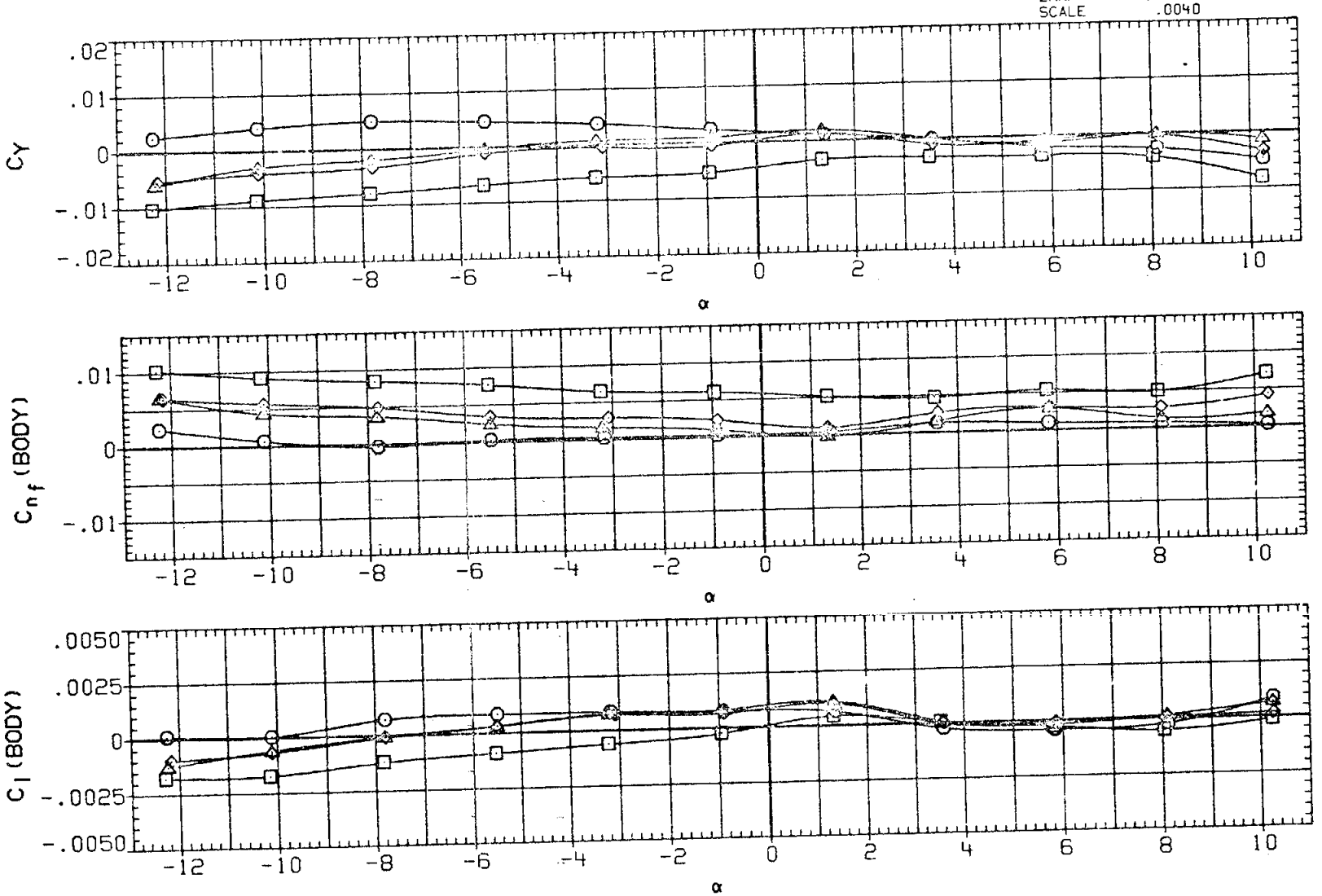


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

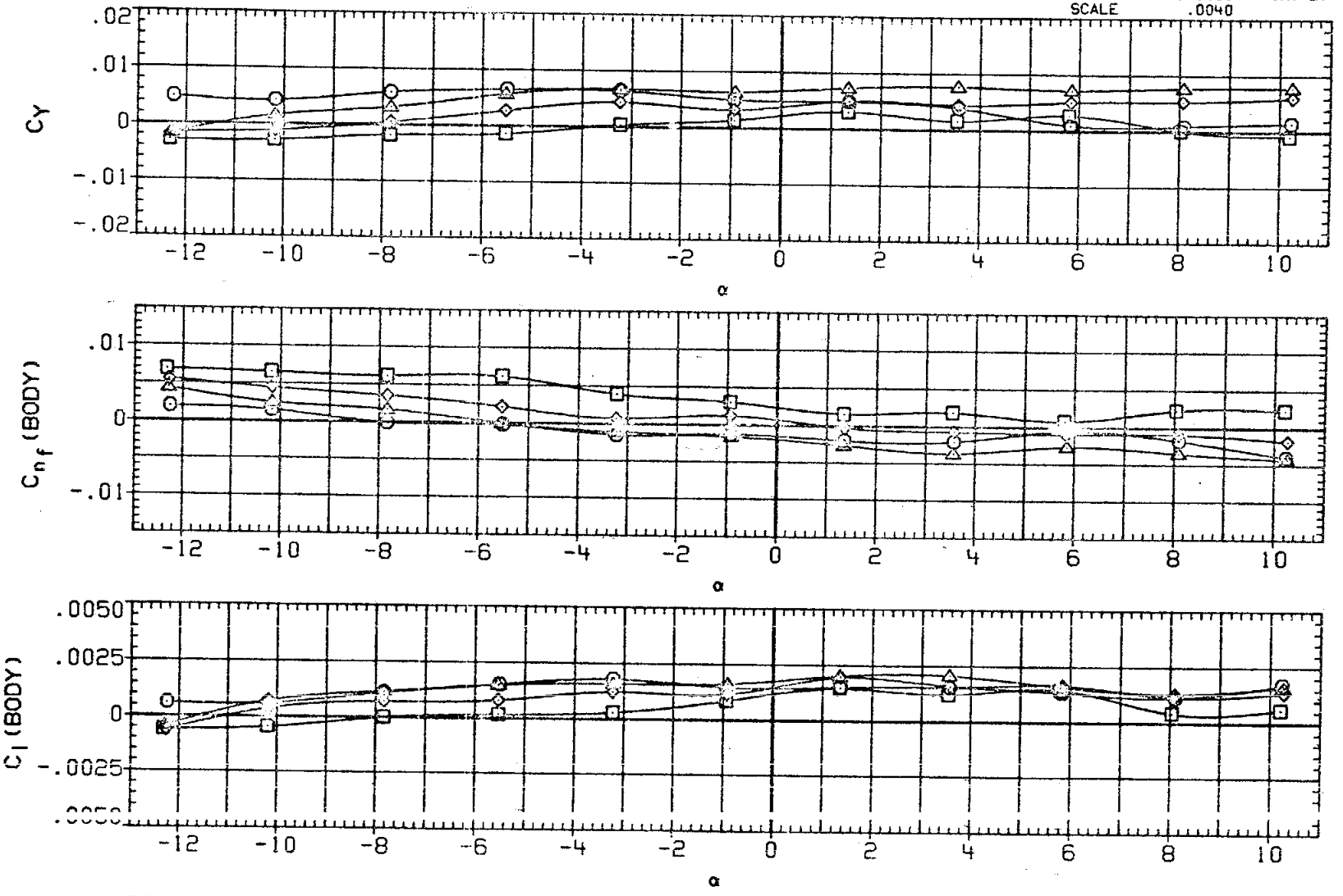


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
RA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
RA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
RA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

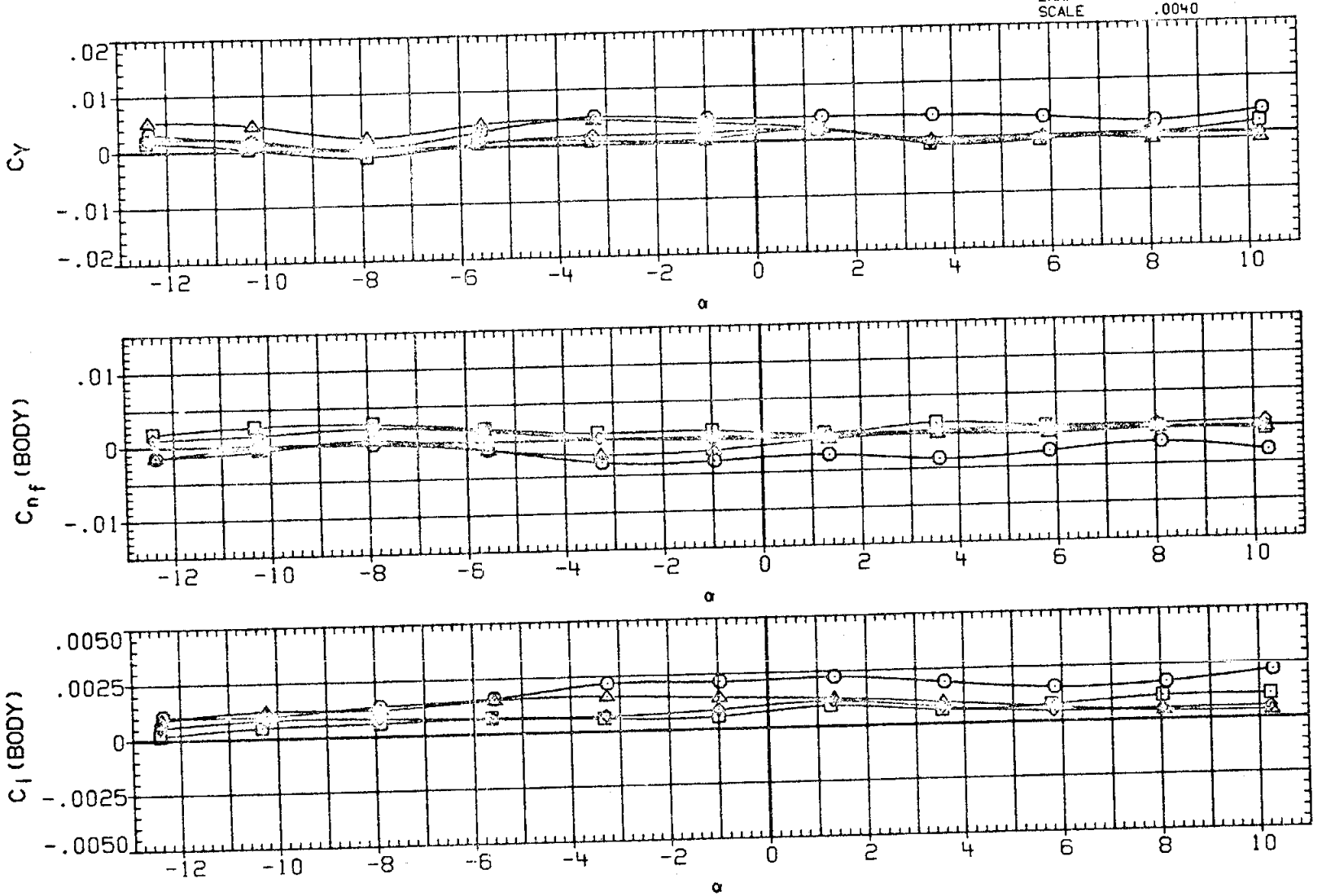


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

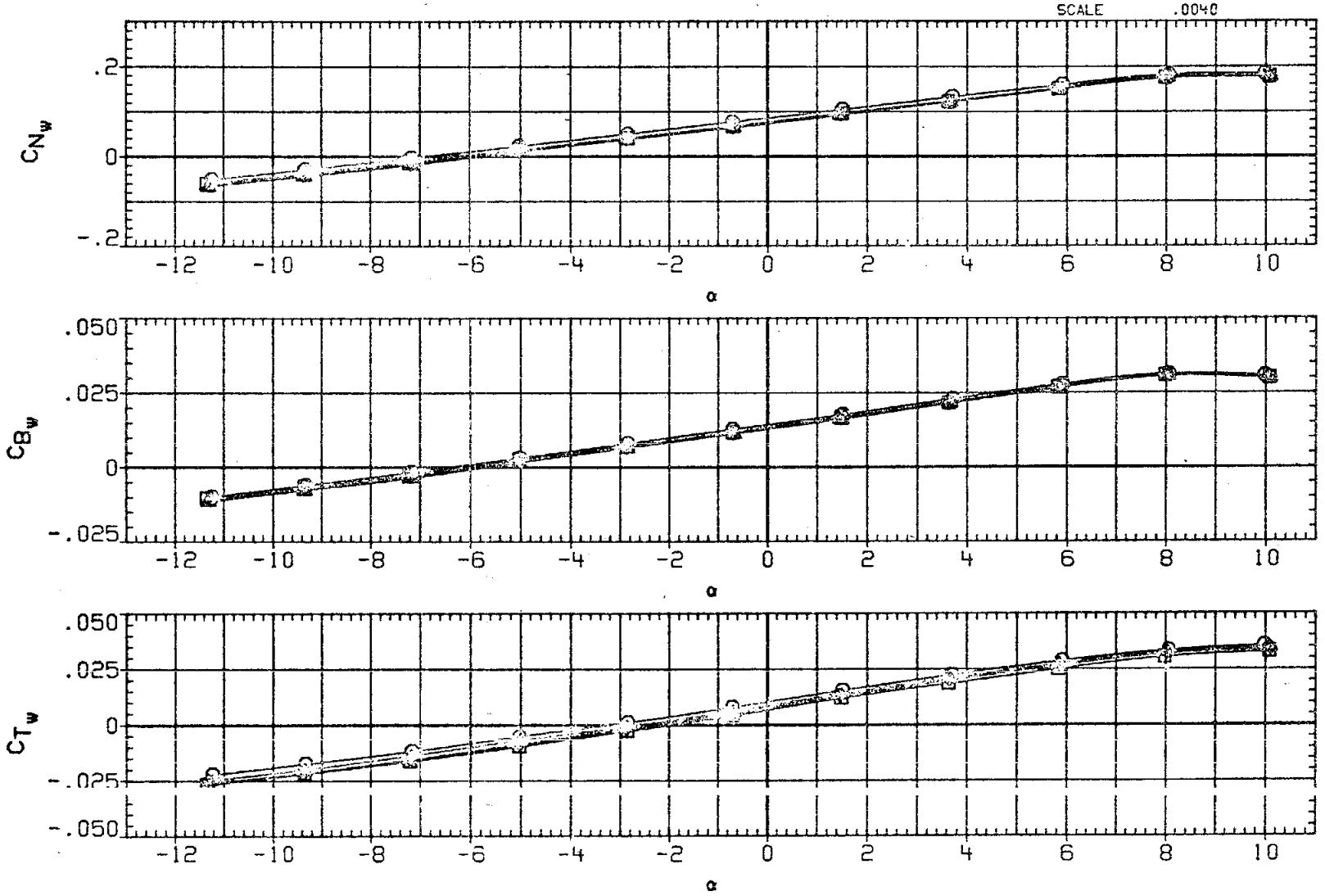


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692. O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

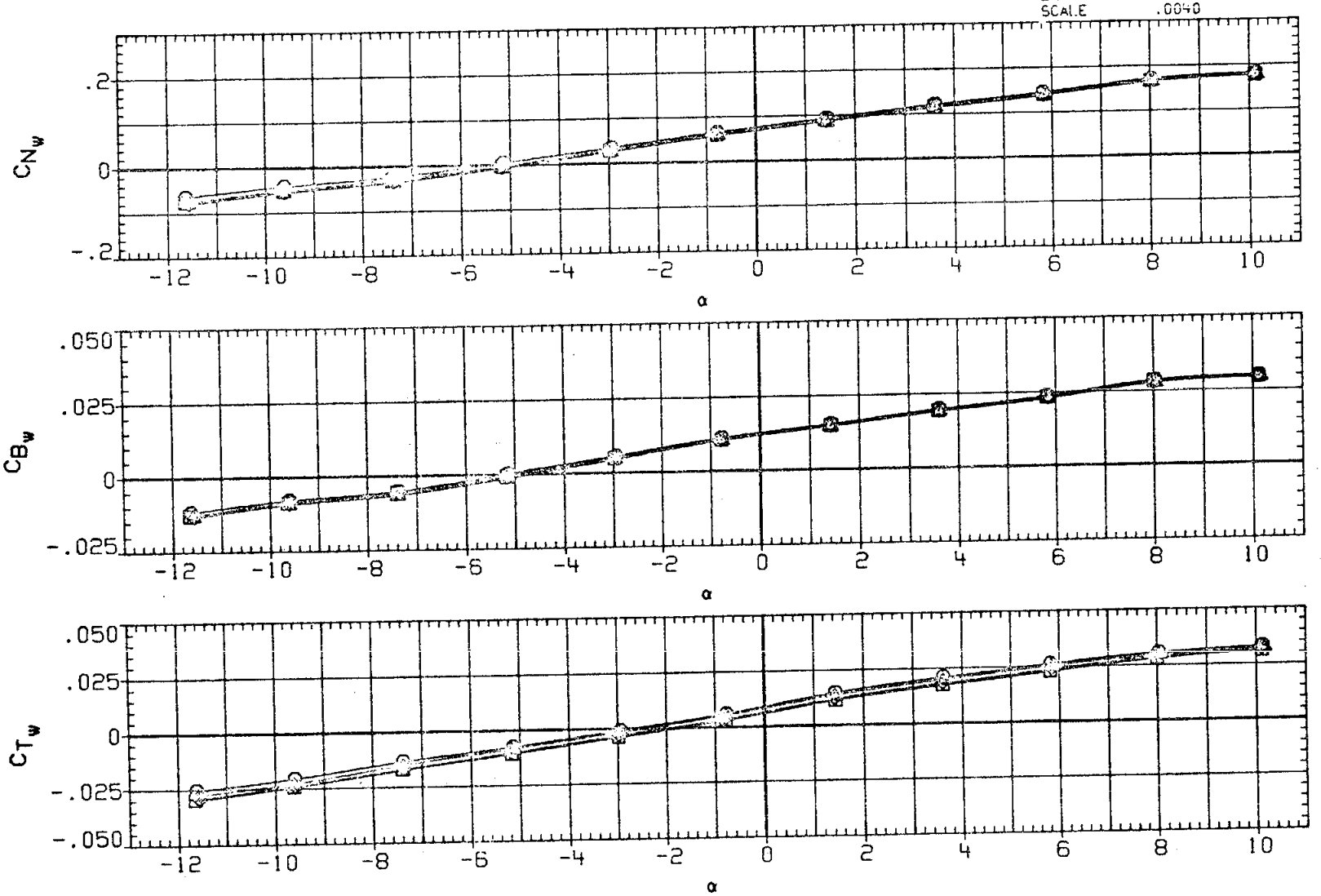


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

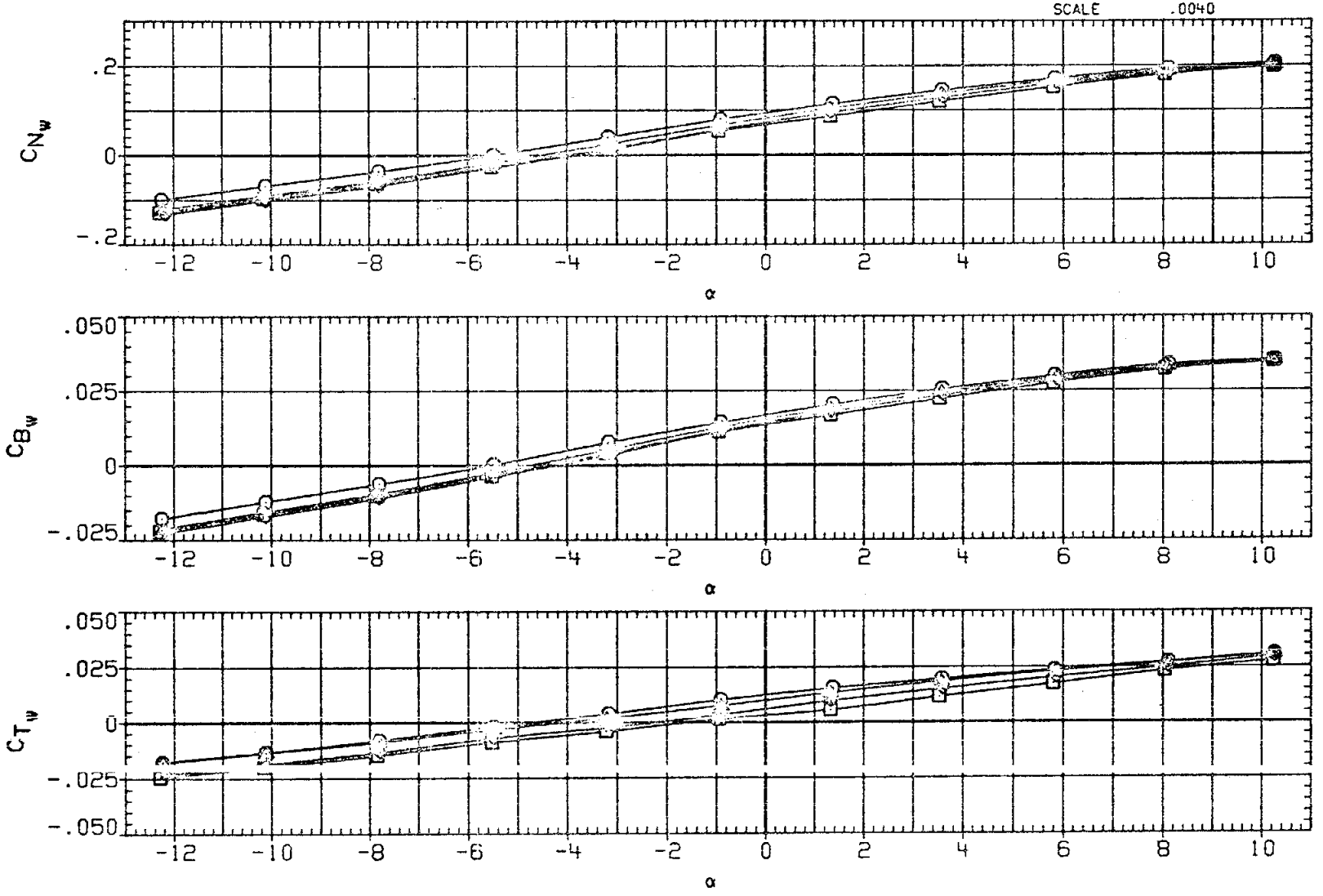


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

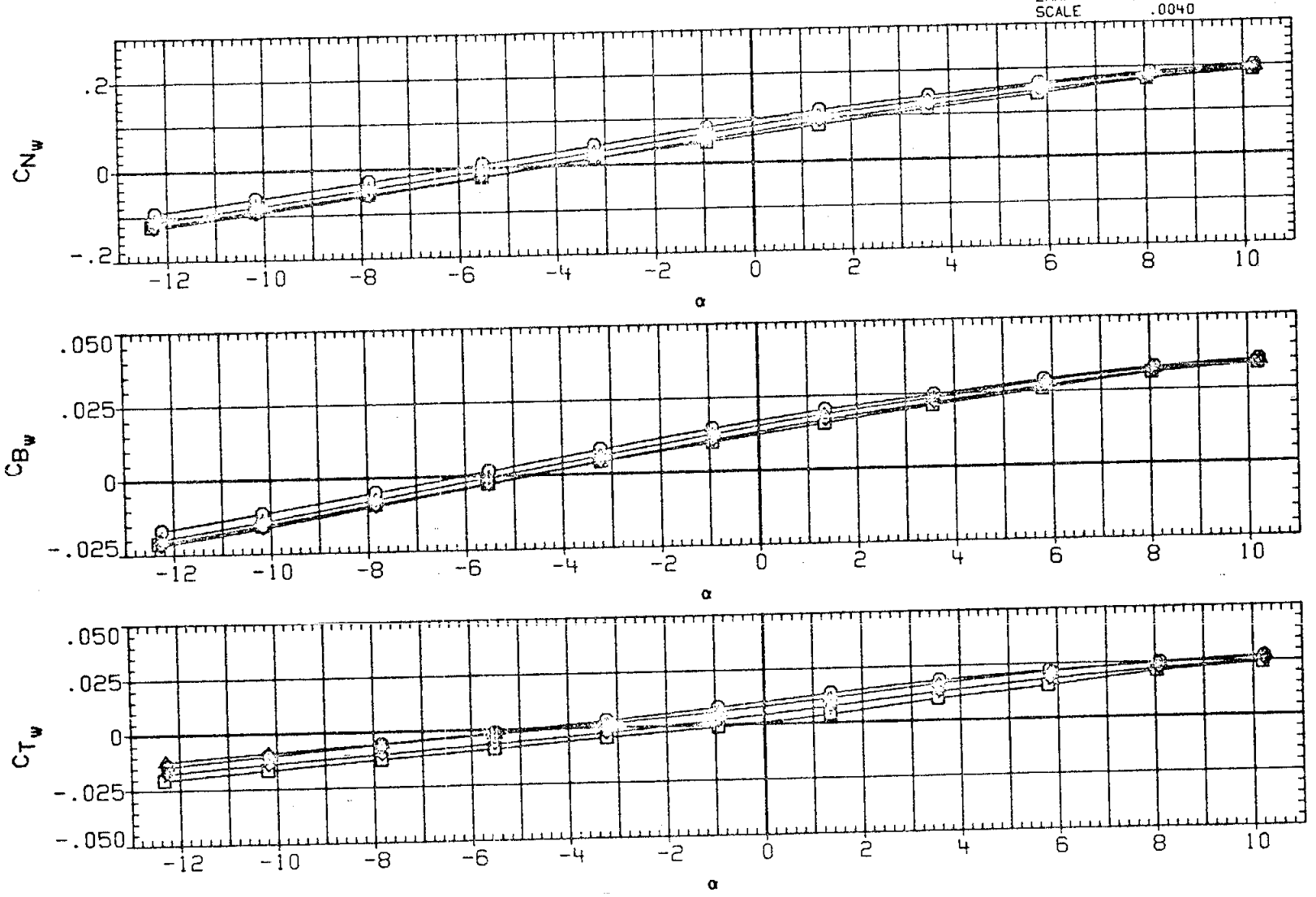


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

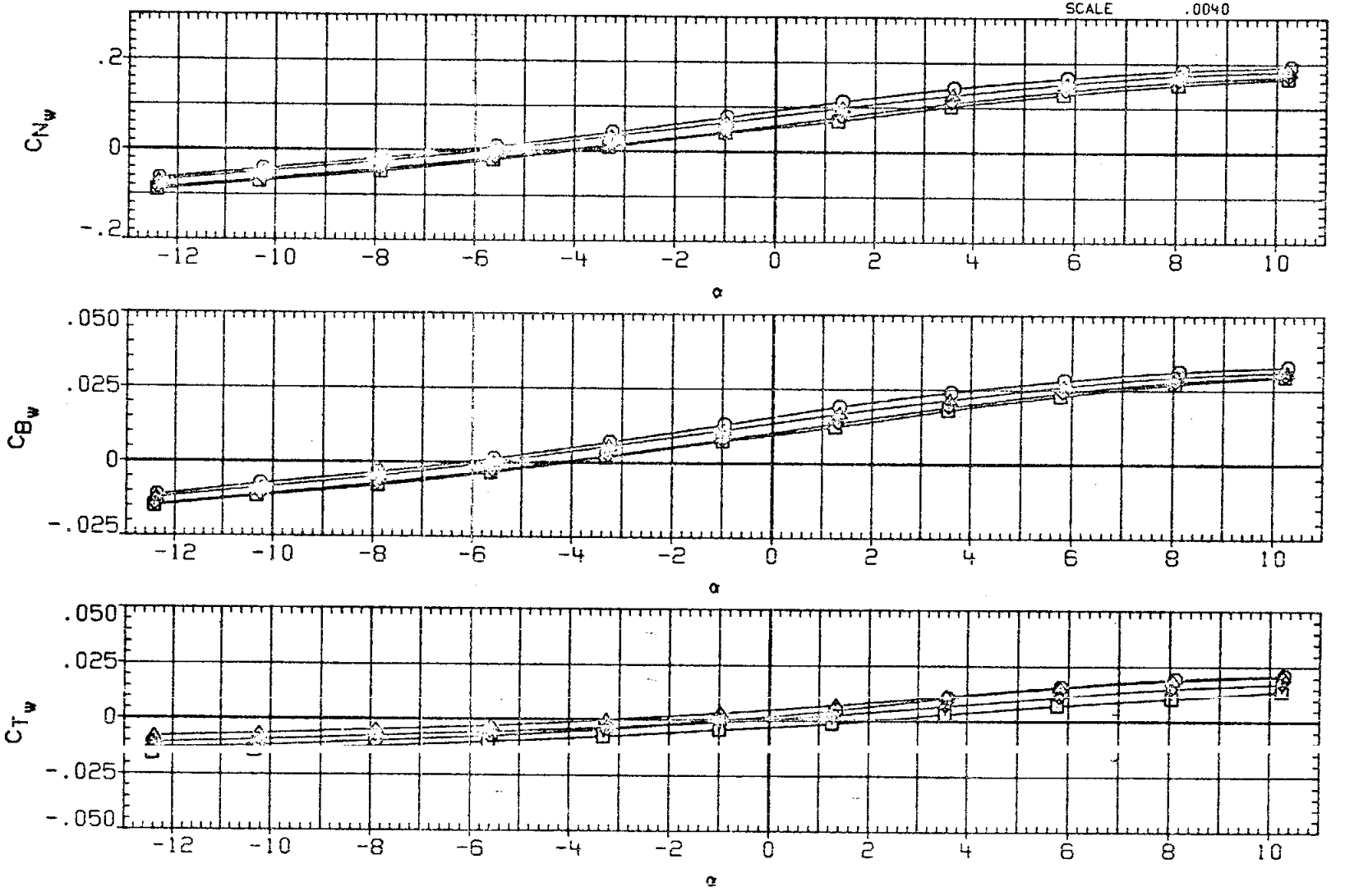


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

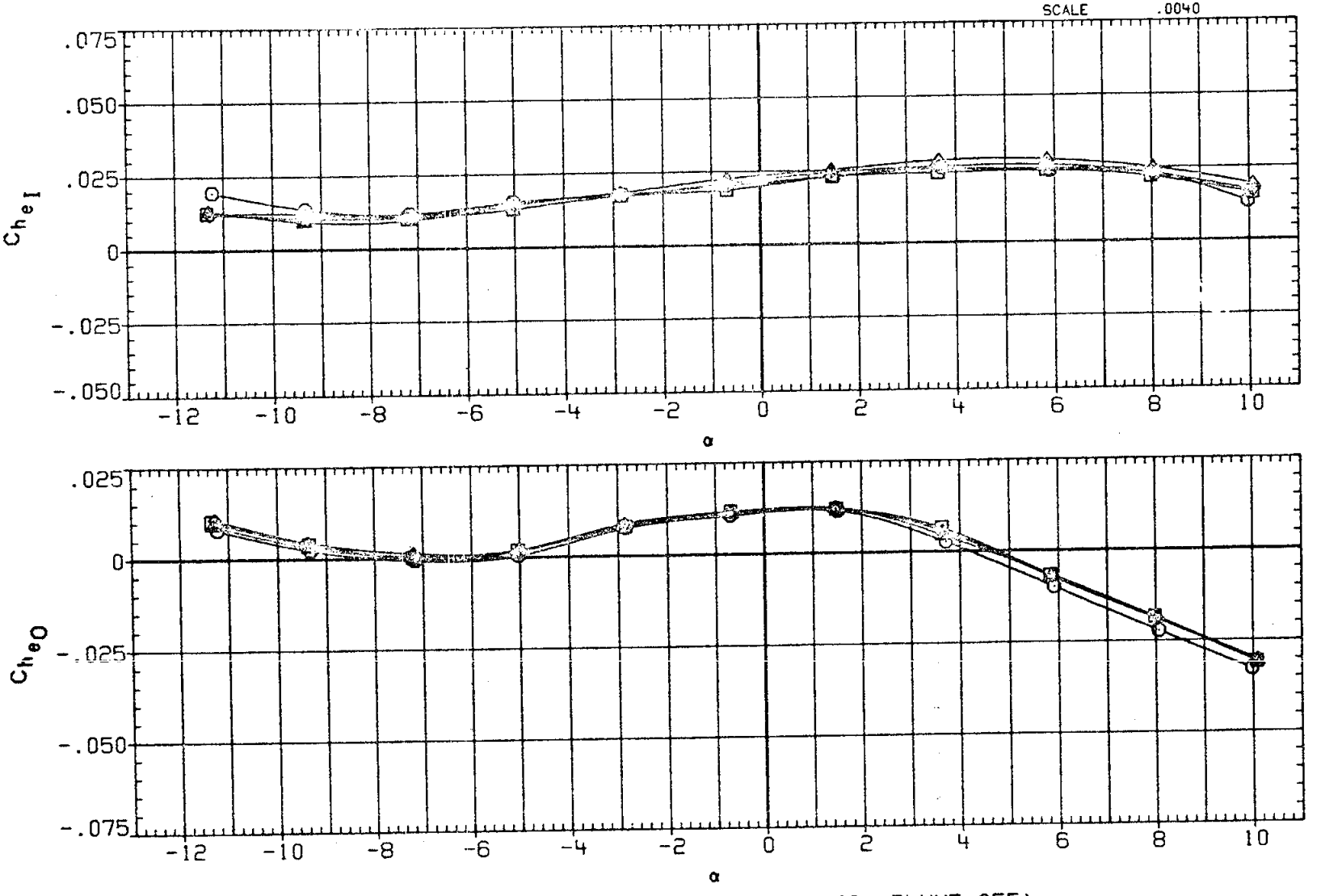


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A) MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

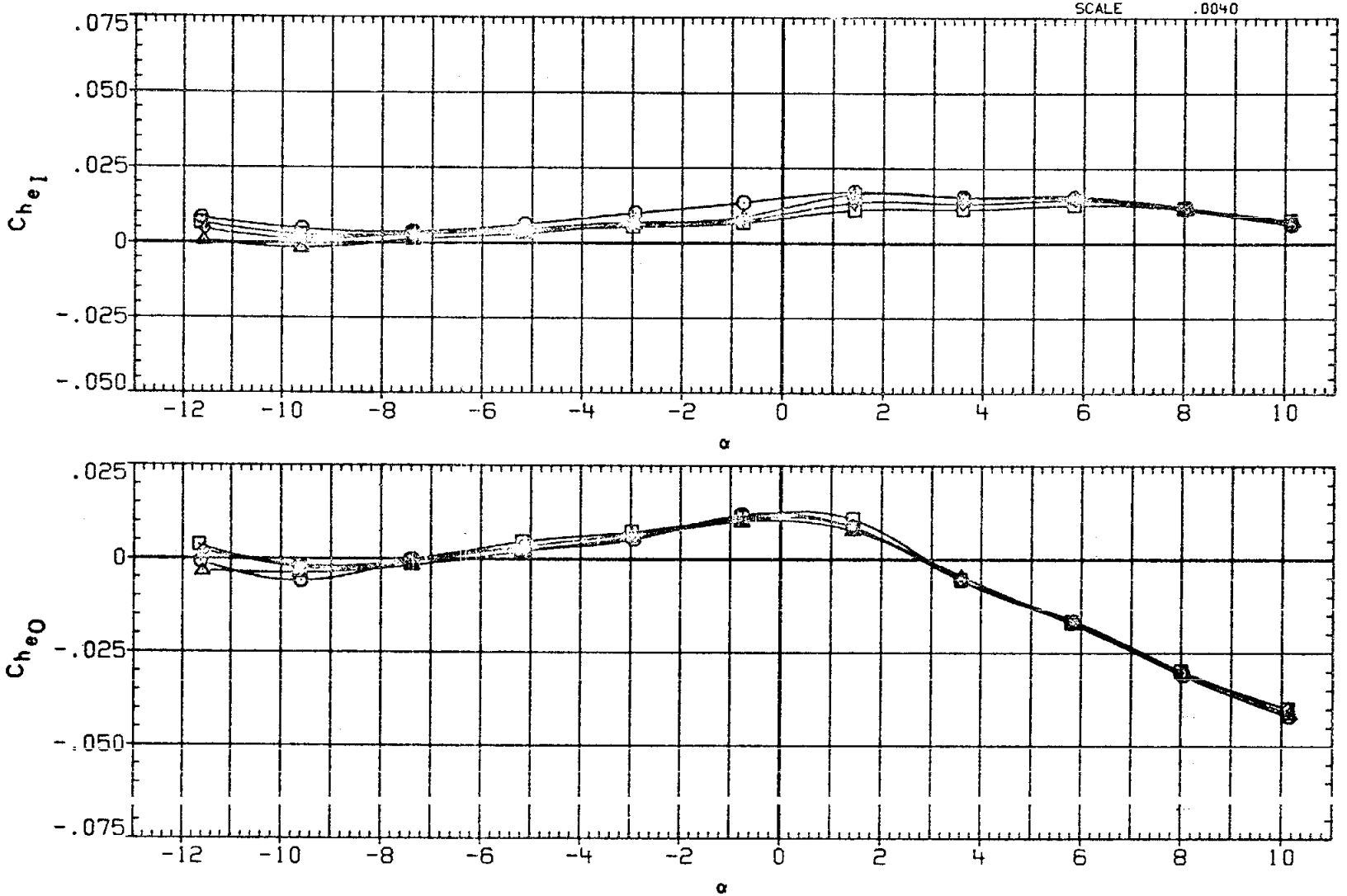


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

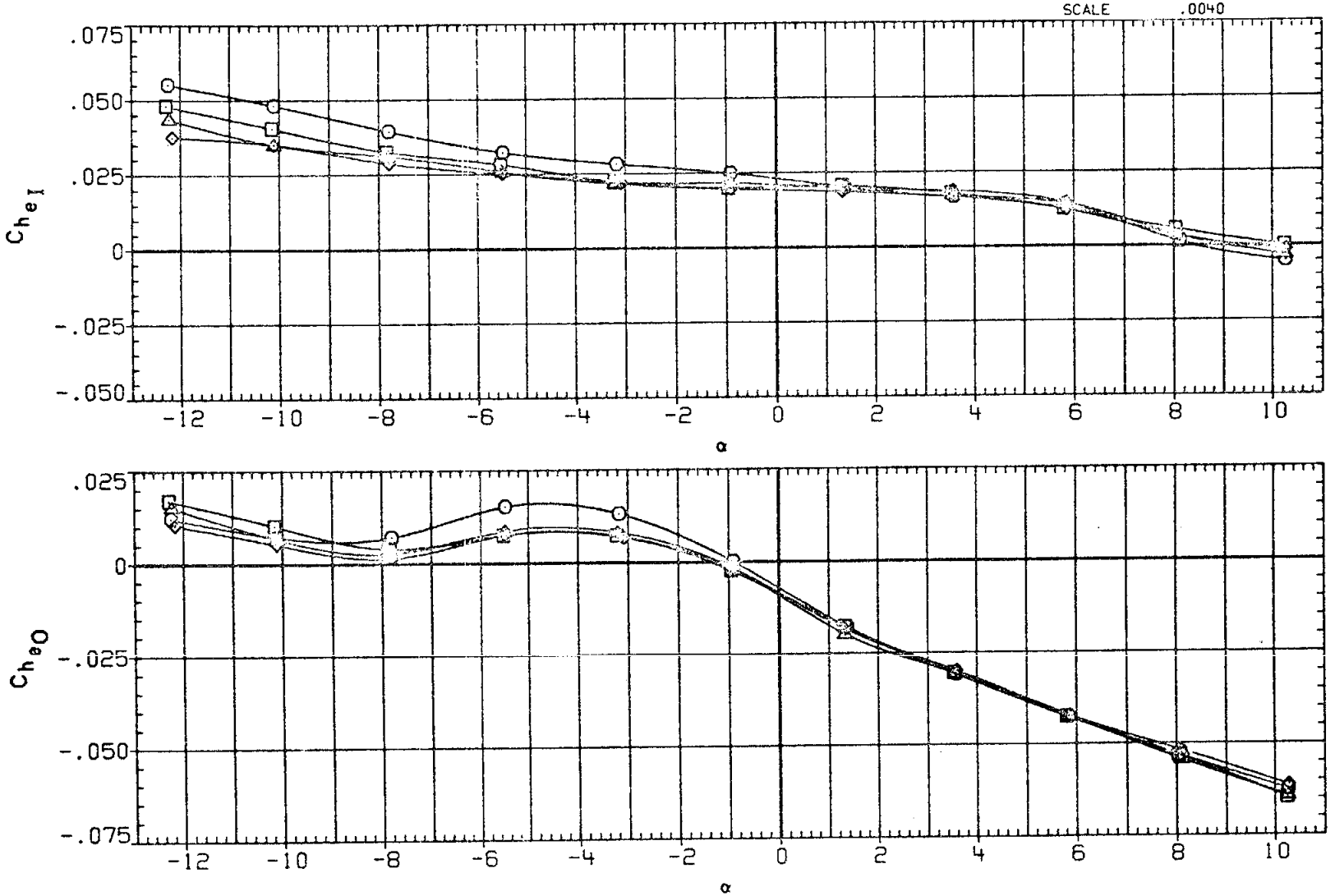


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

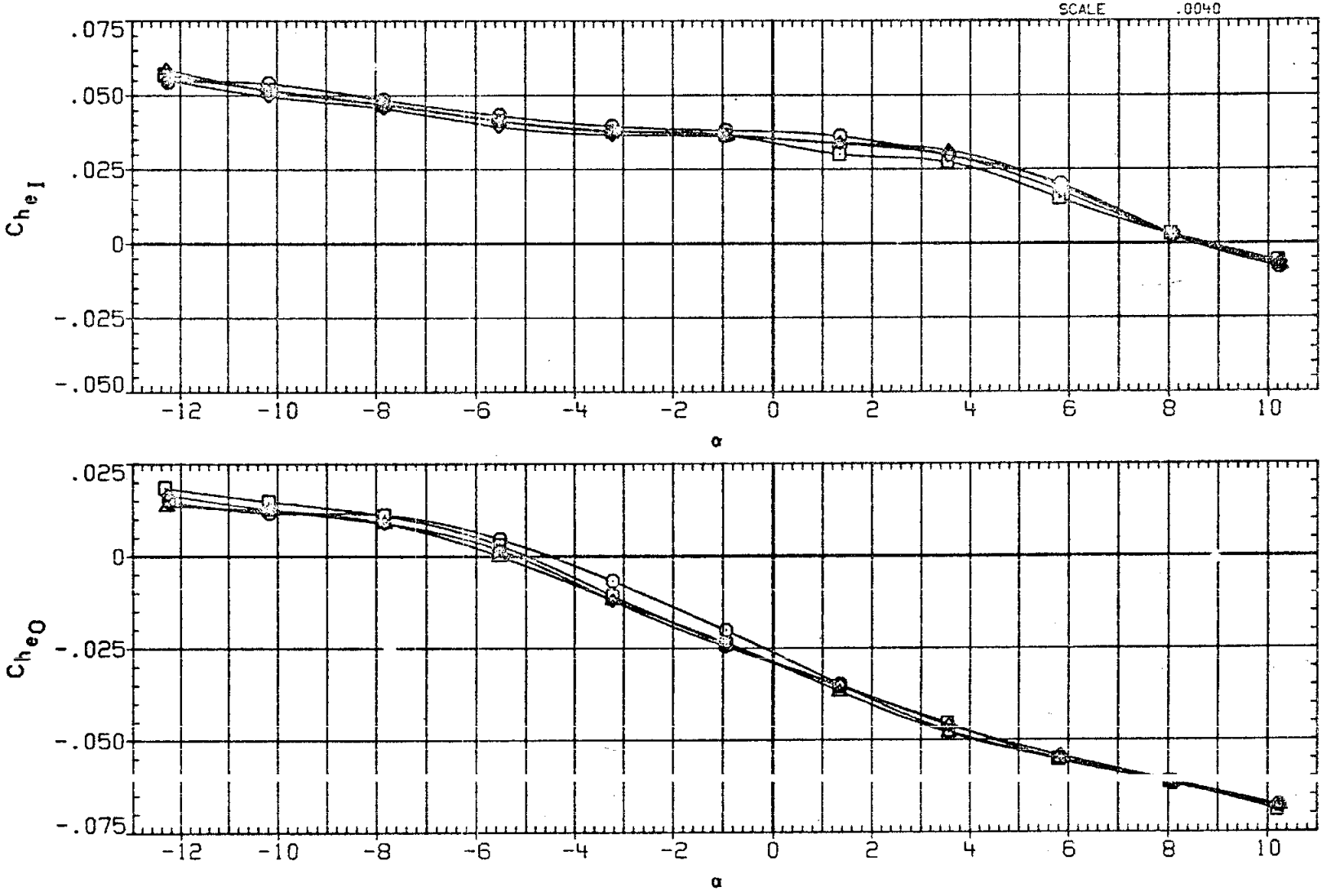


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
TA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
TA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
TA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

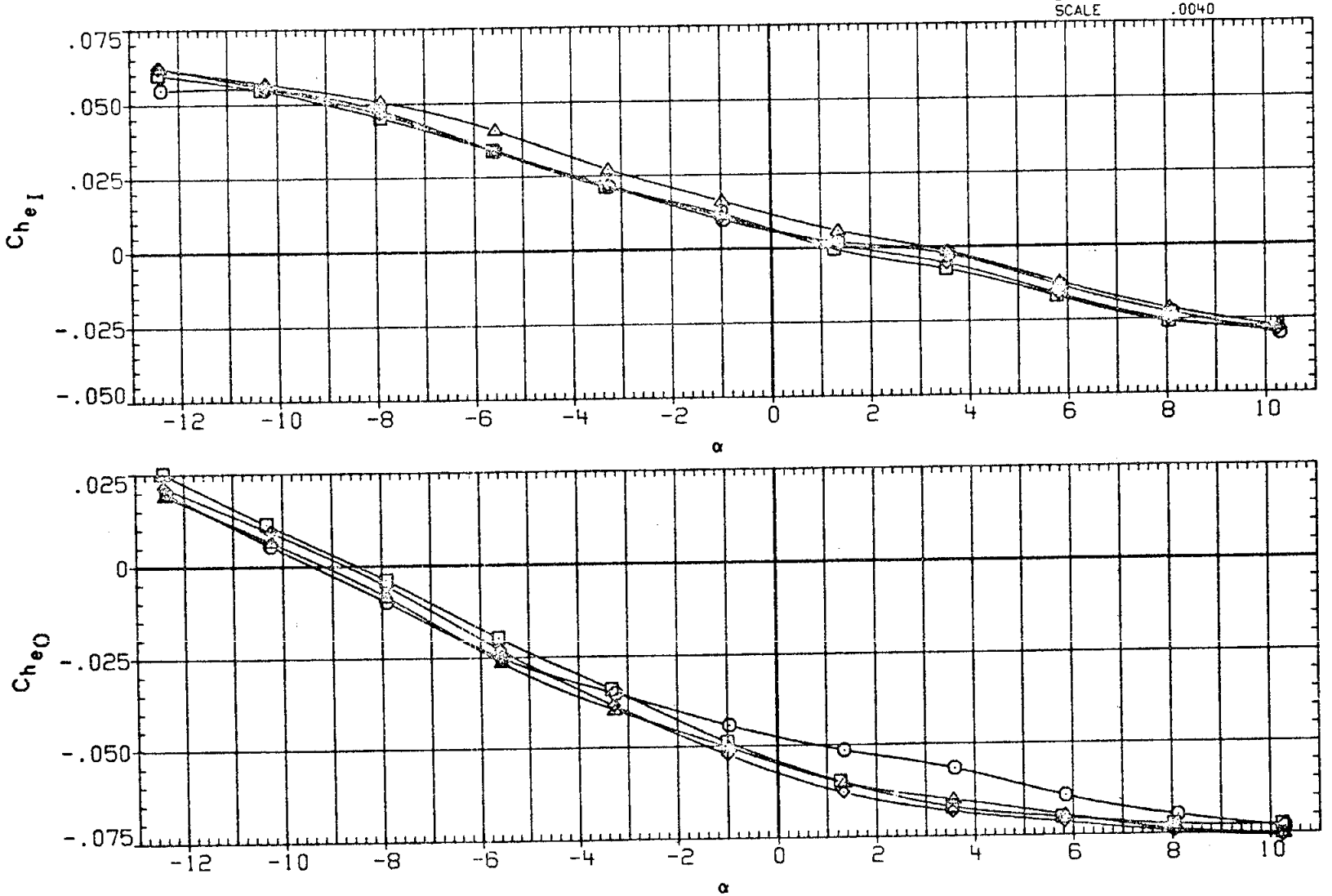


FIG. 5 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6015	◇	MSFC TWT 692.OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692.OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

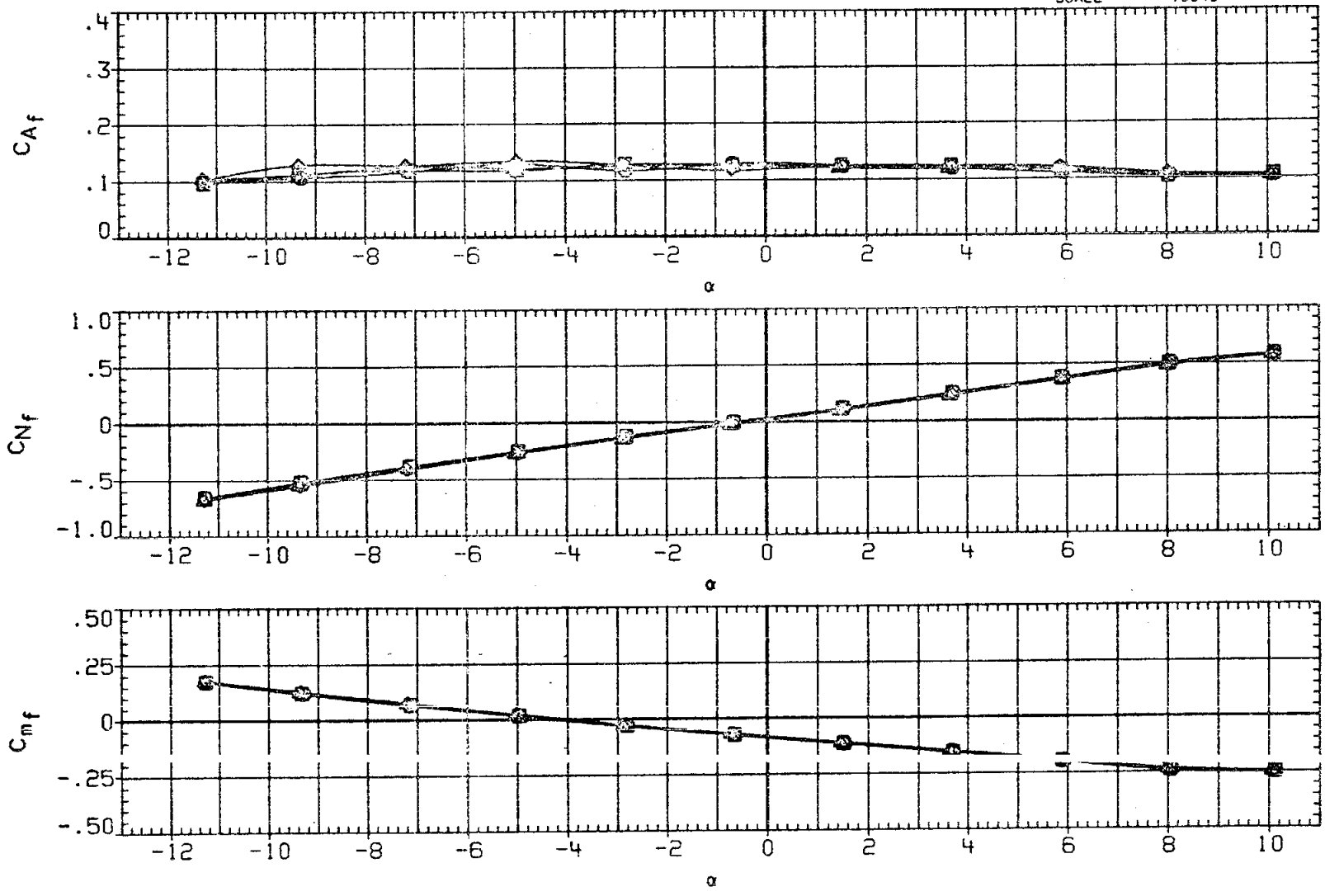


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

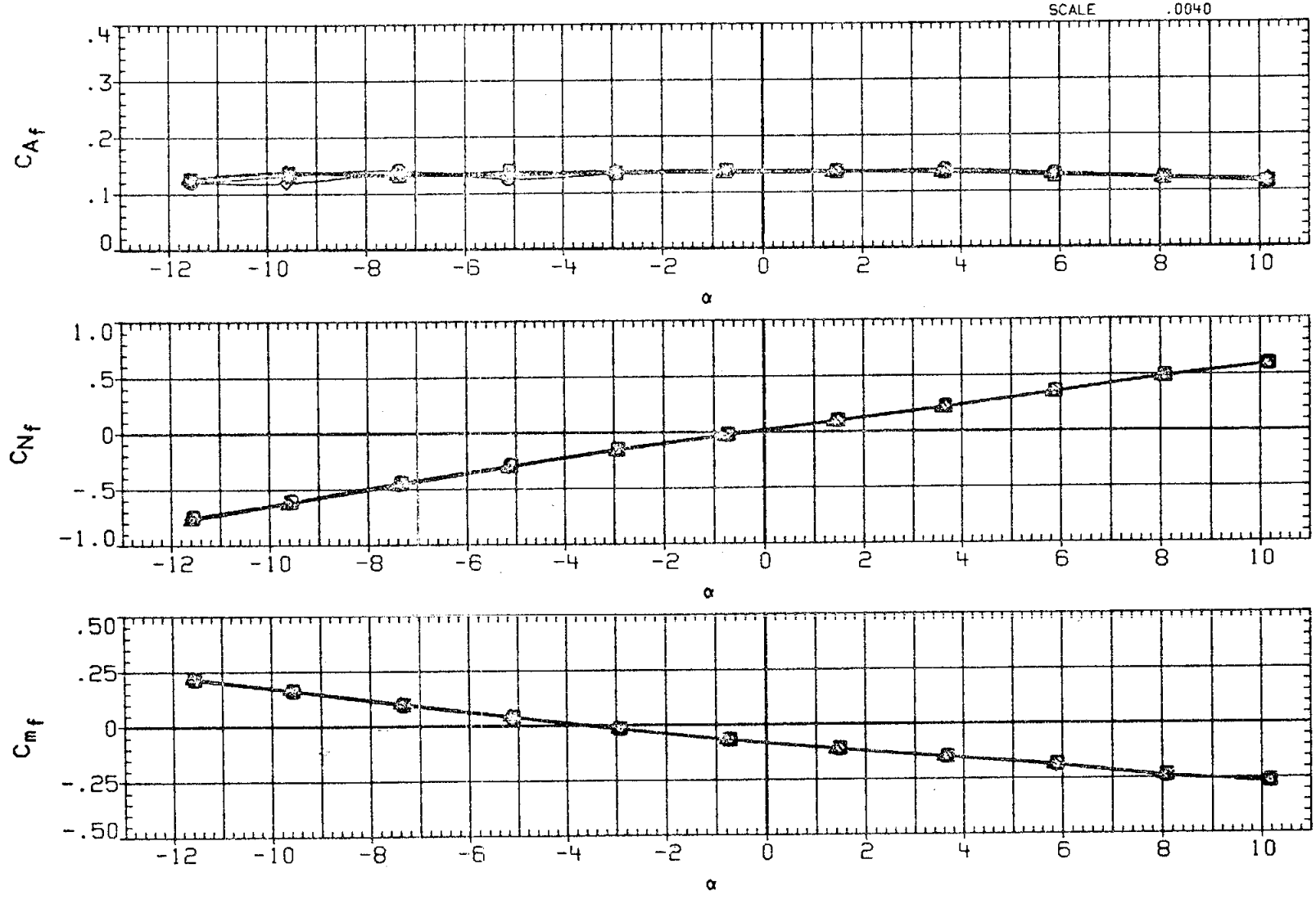


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

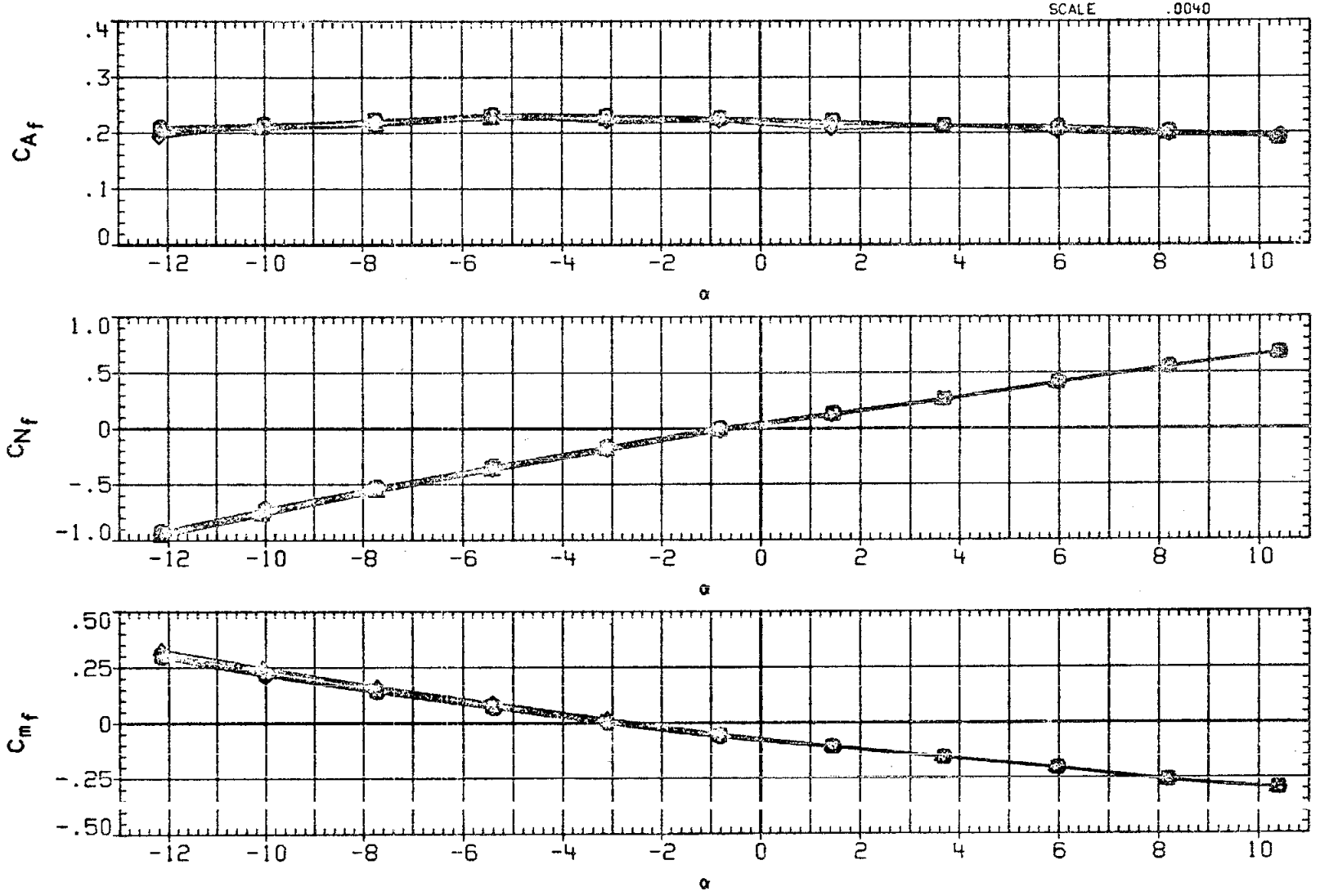


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

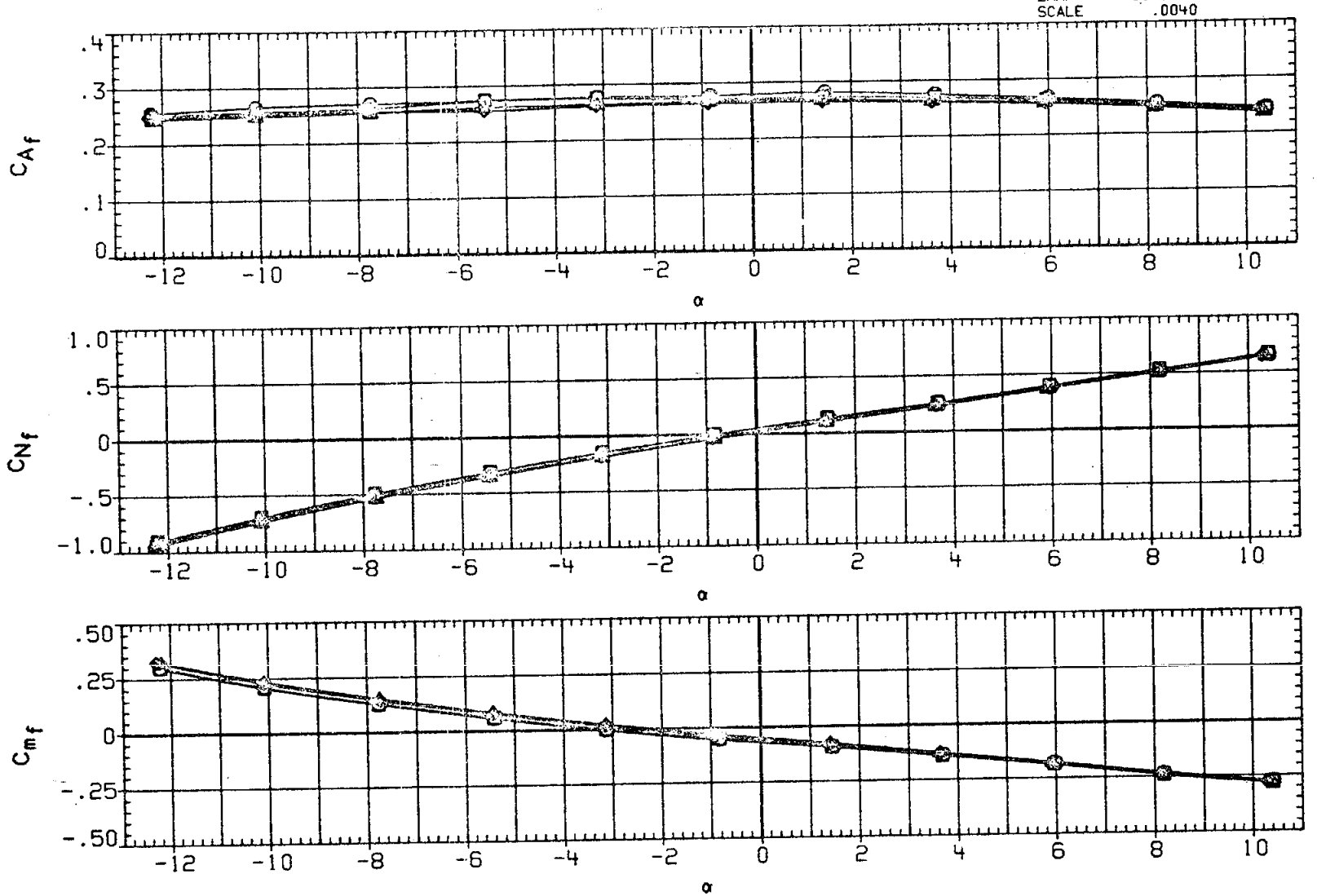


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692.OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

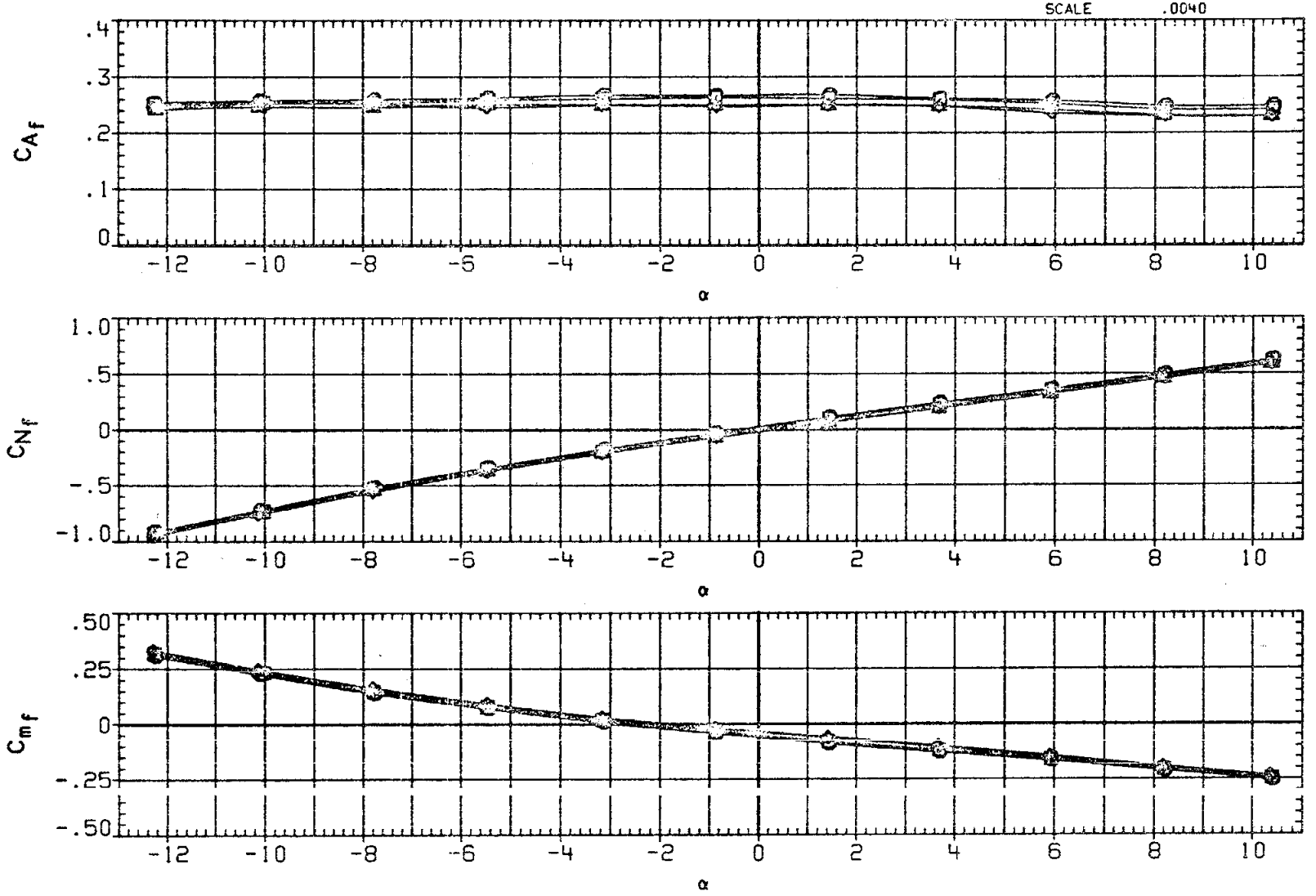


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

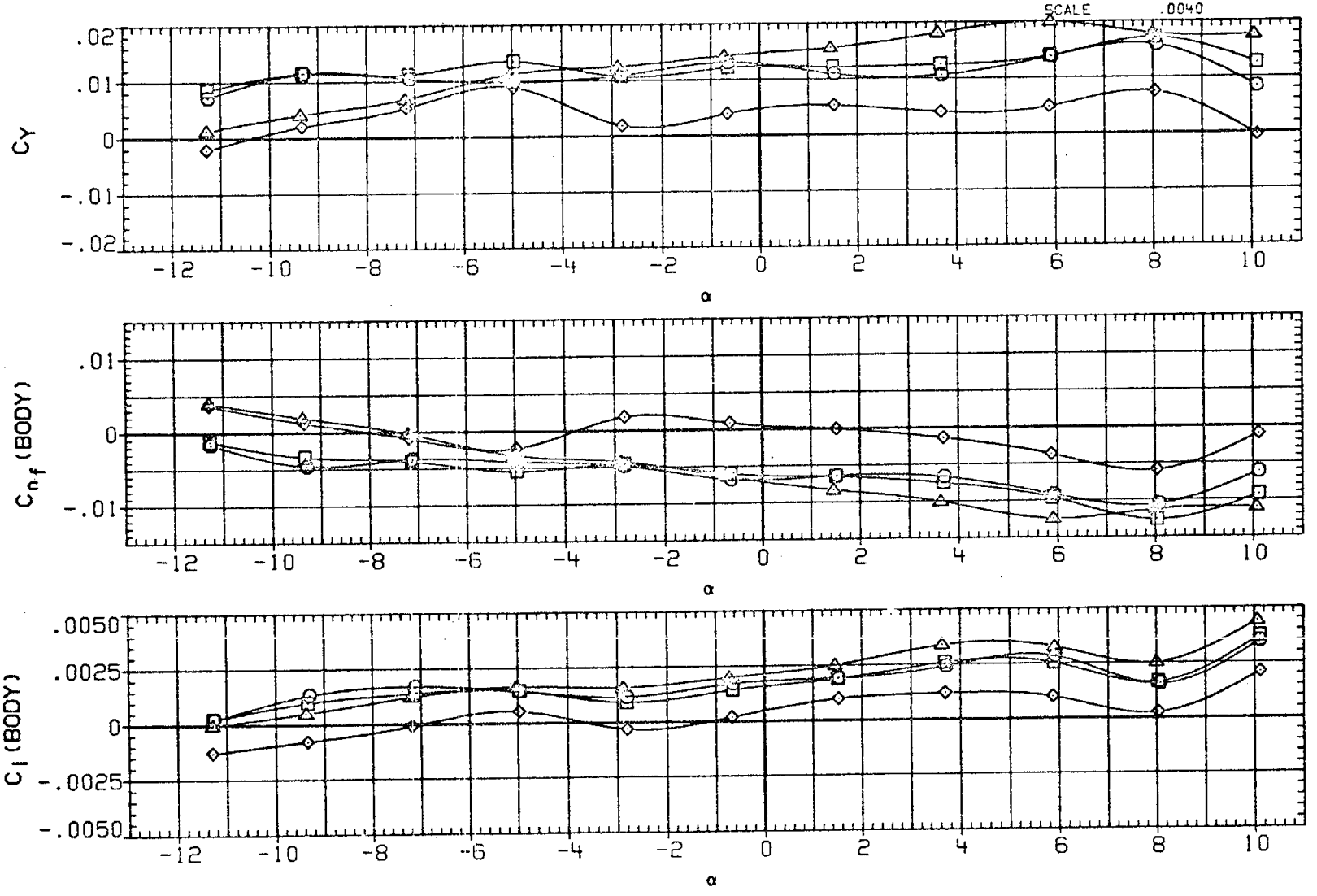


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

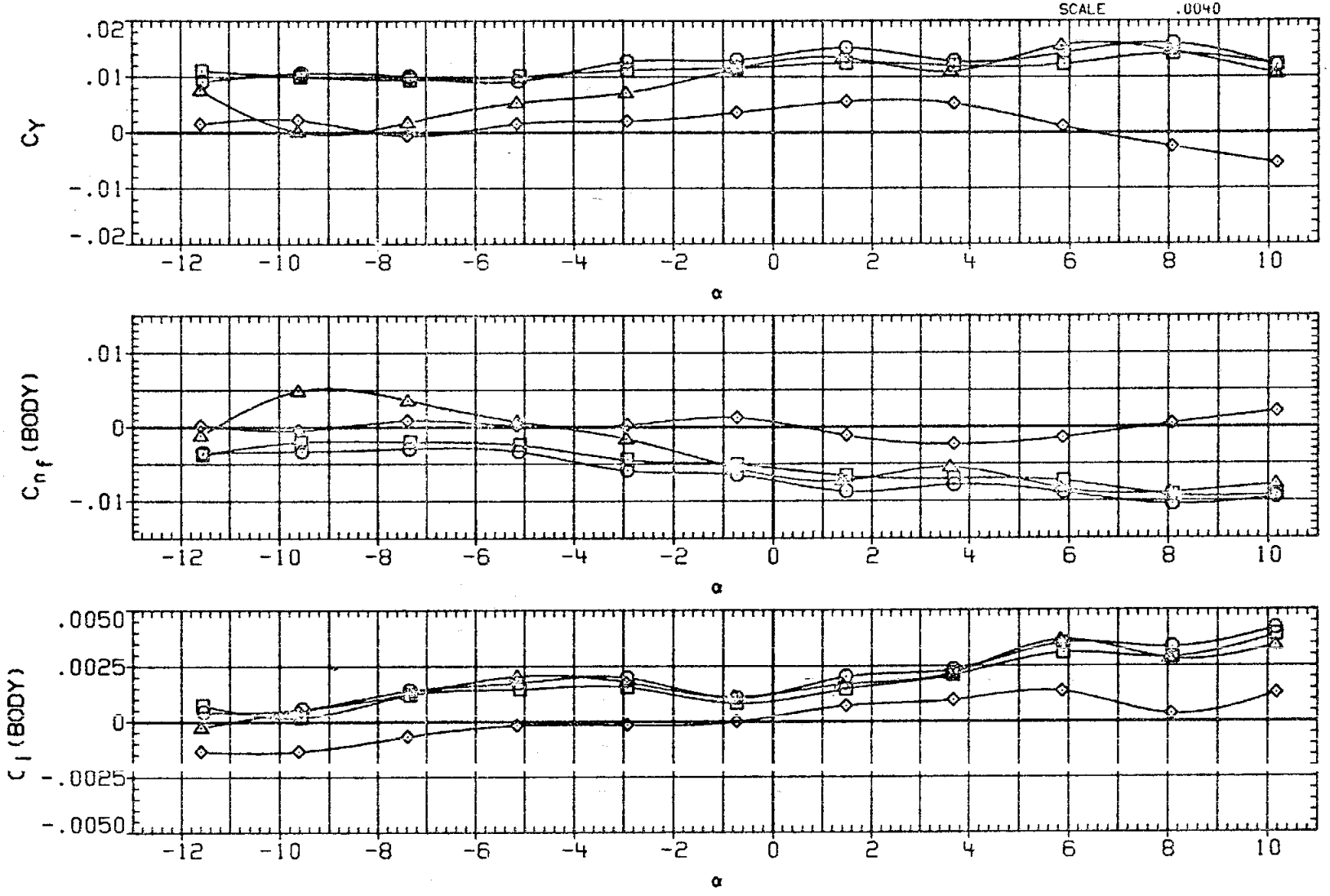


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

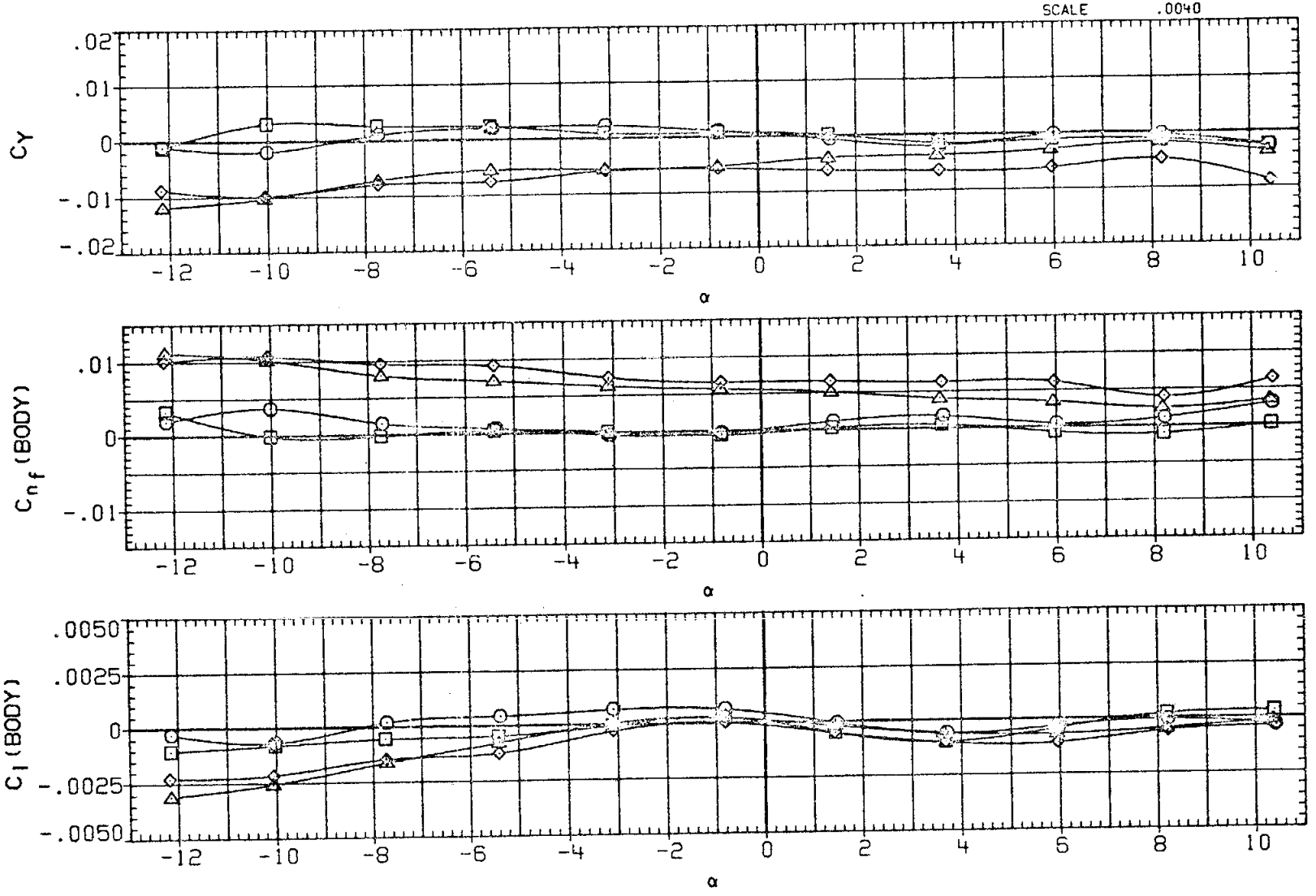


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

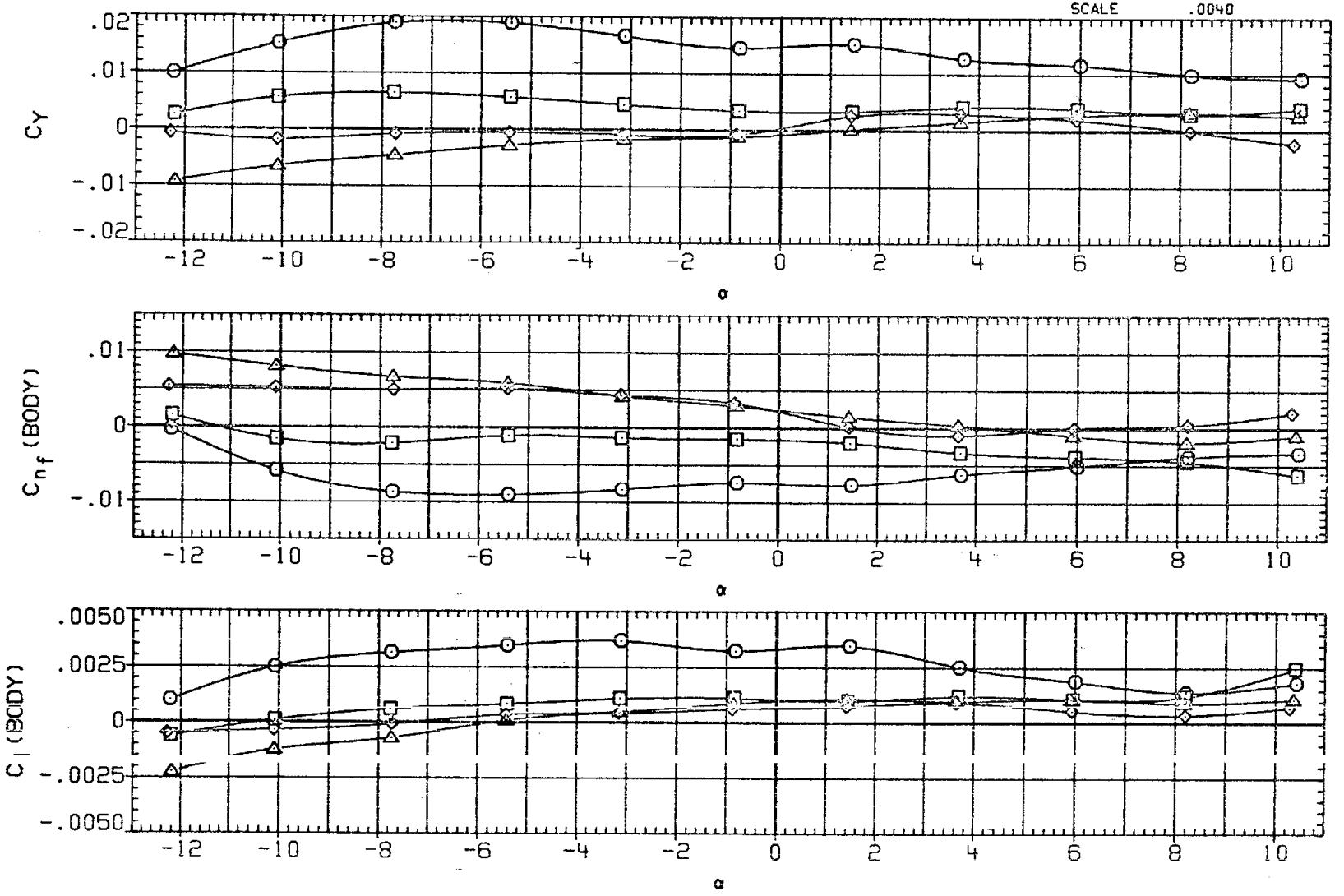


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

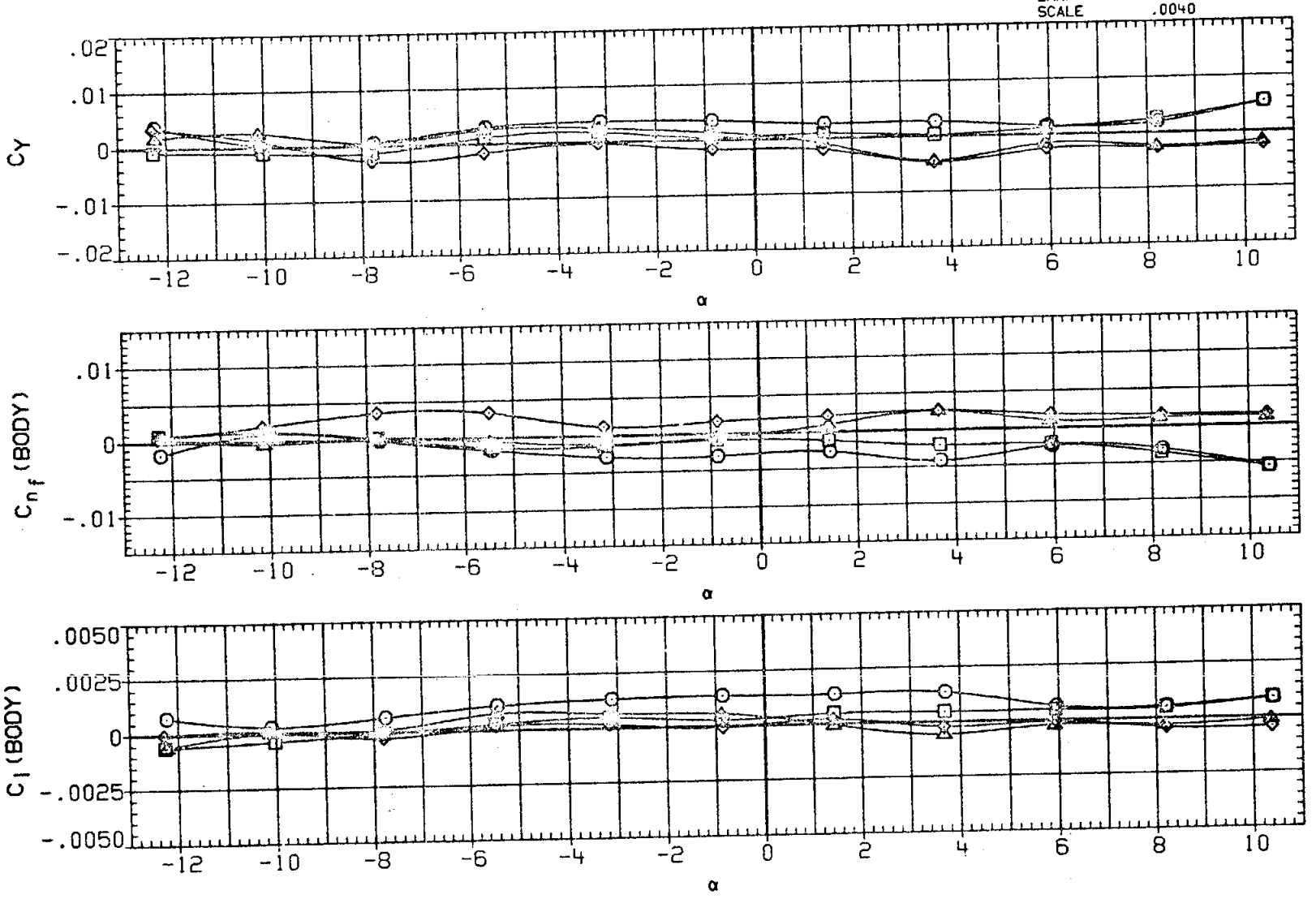


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

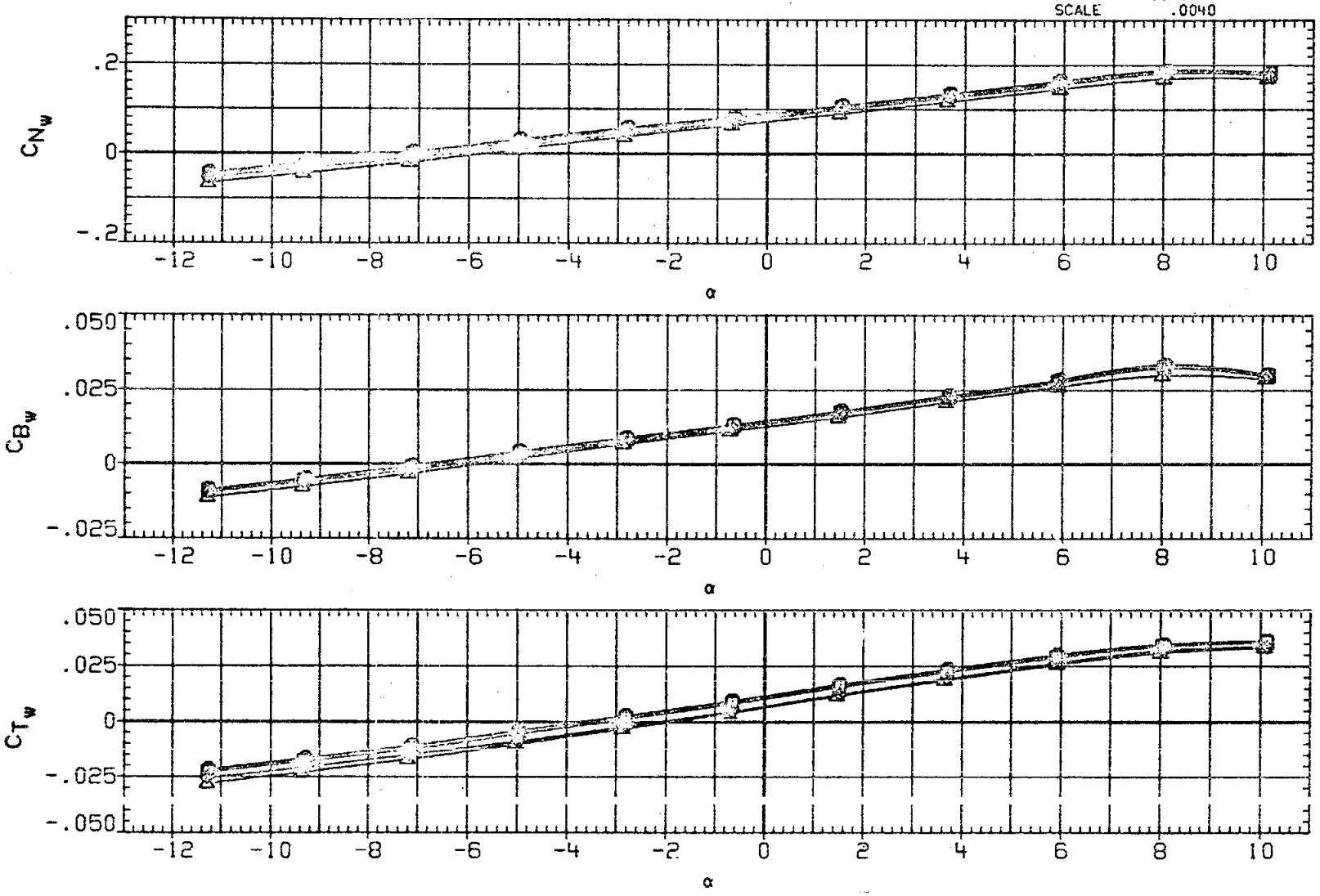


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

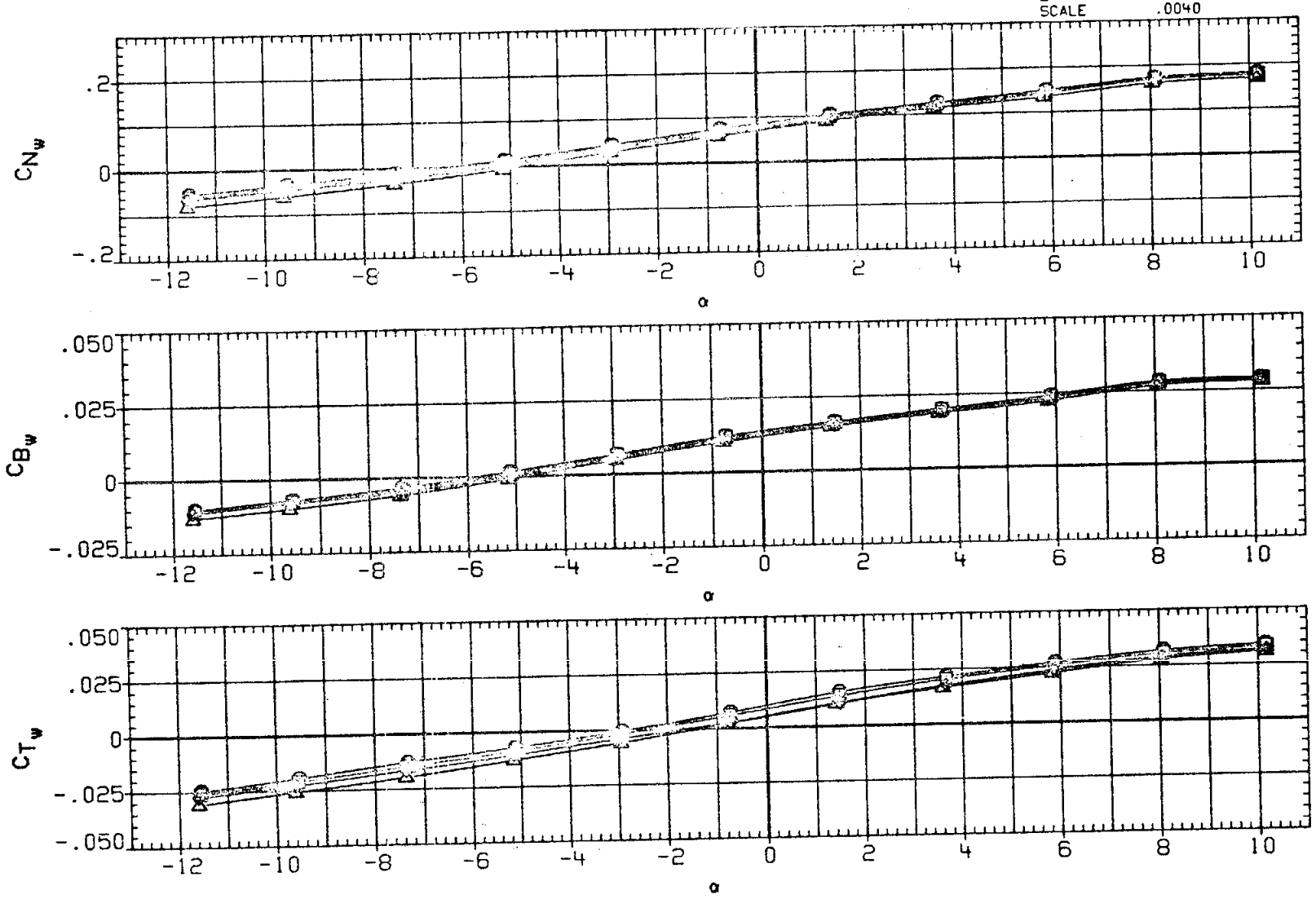


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

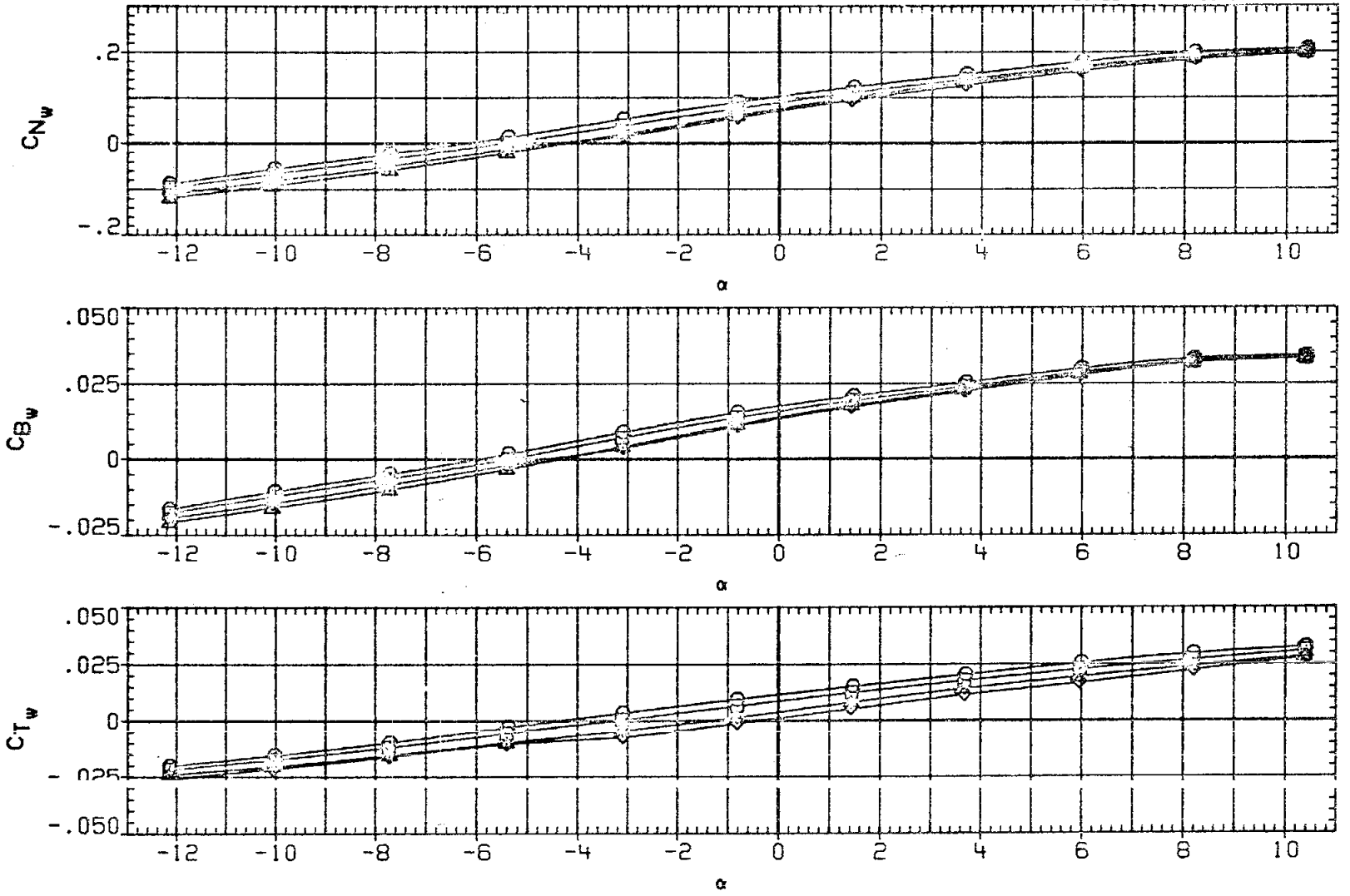


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

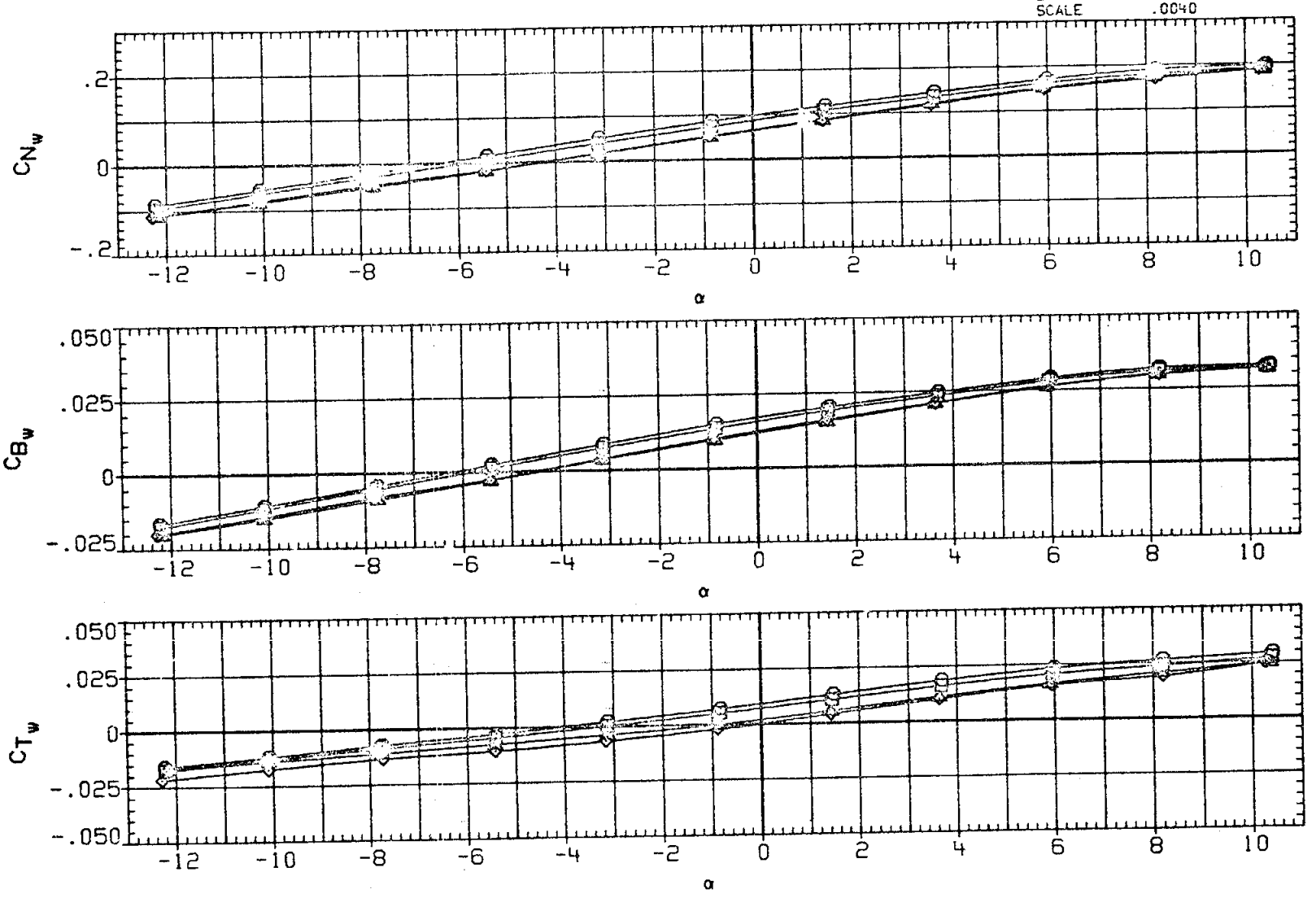


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

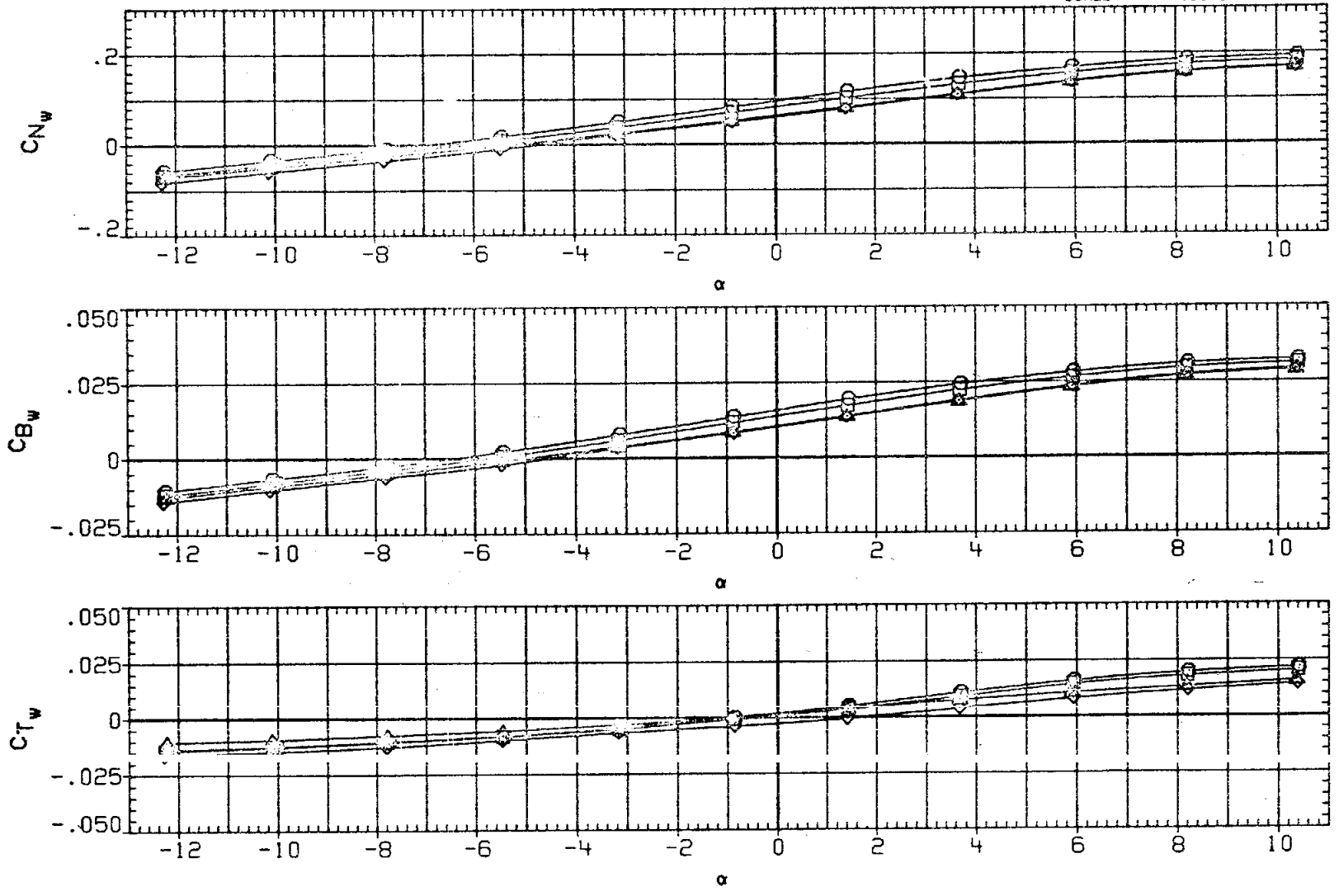


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

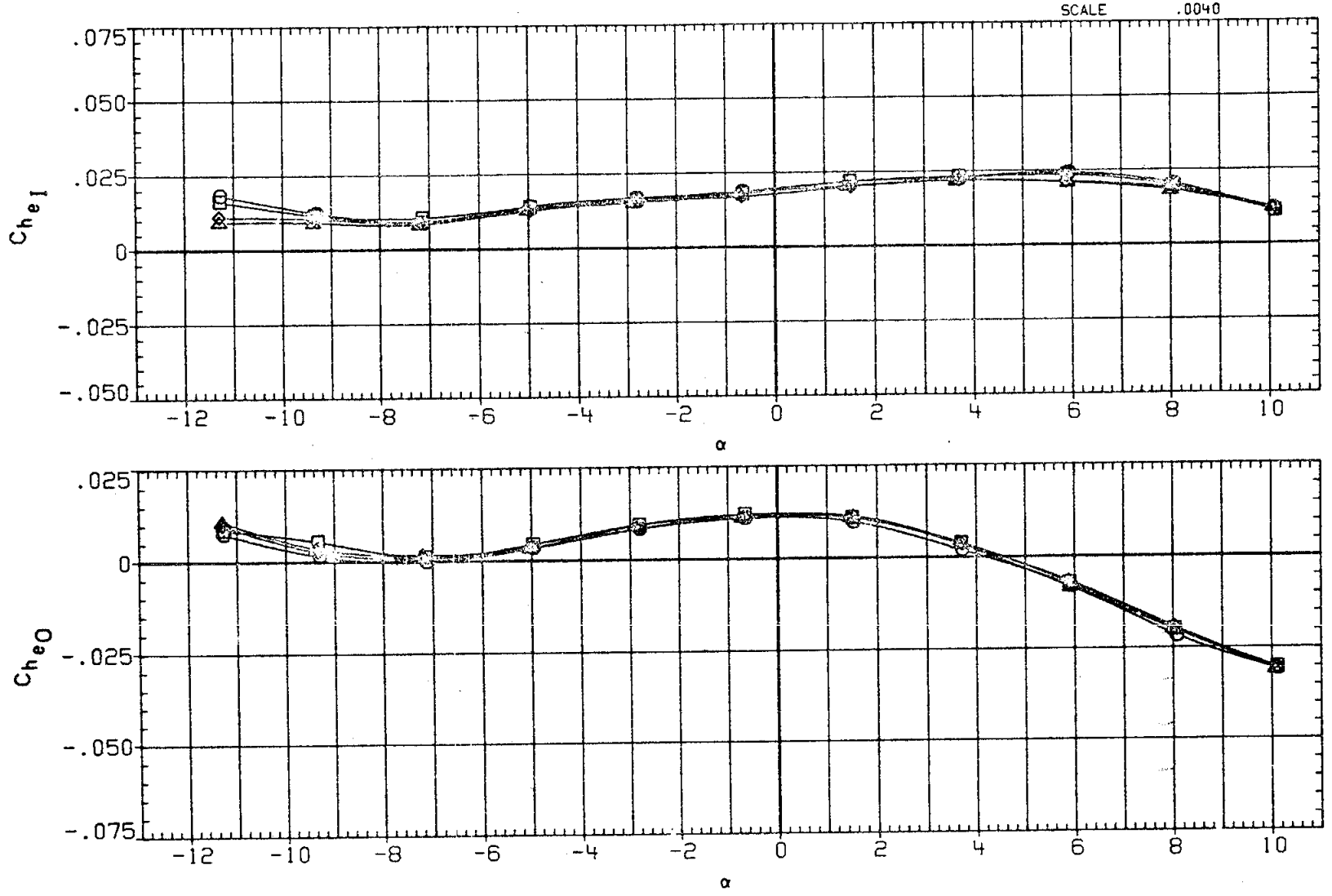


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

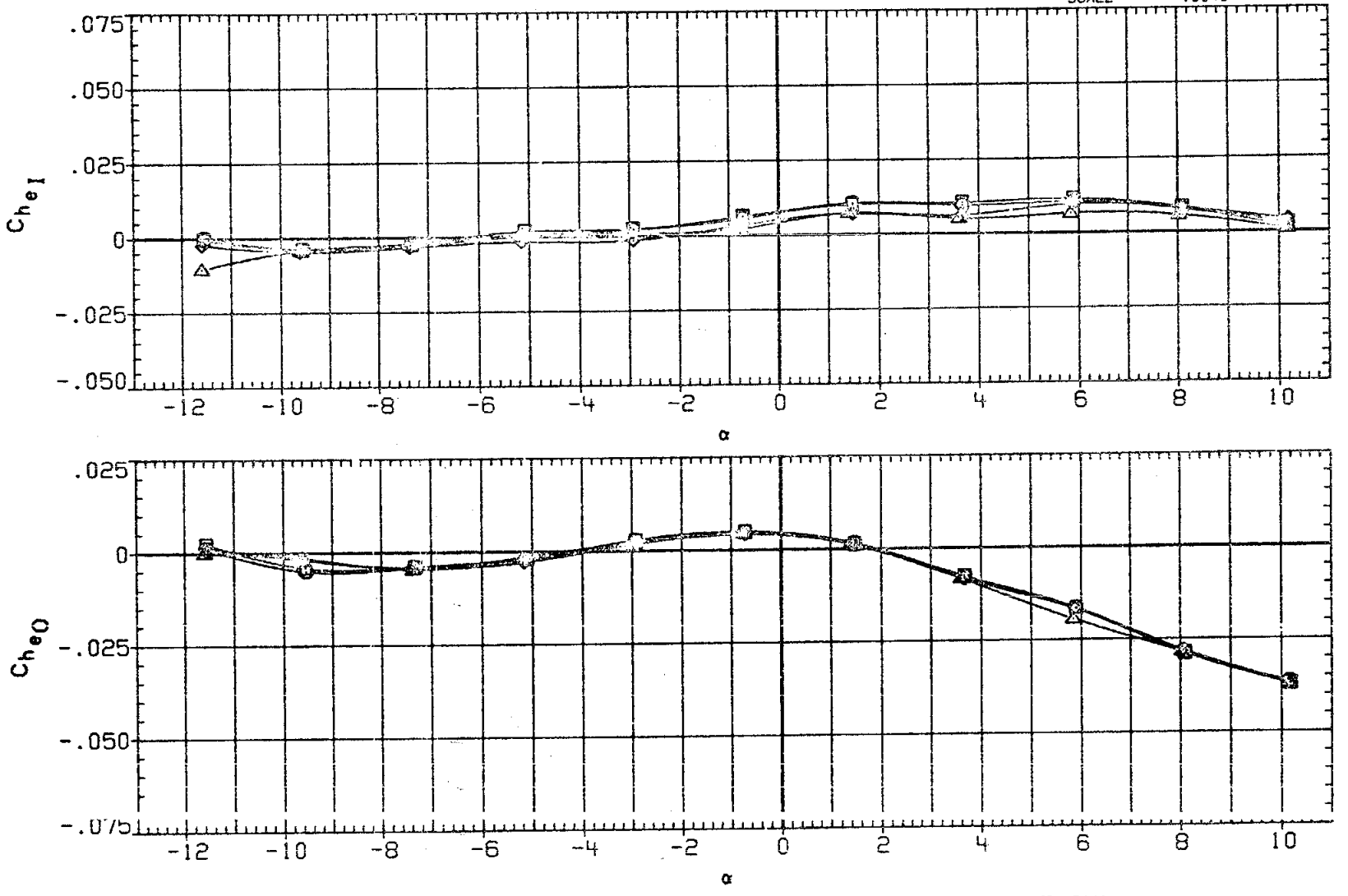


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

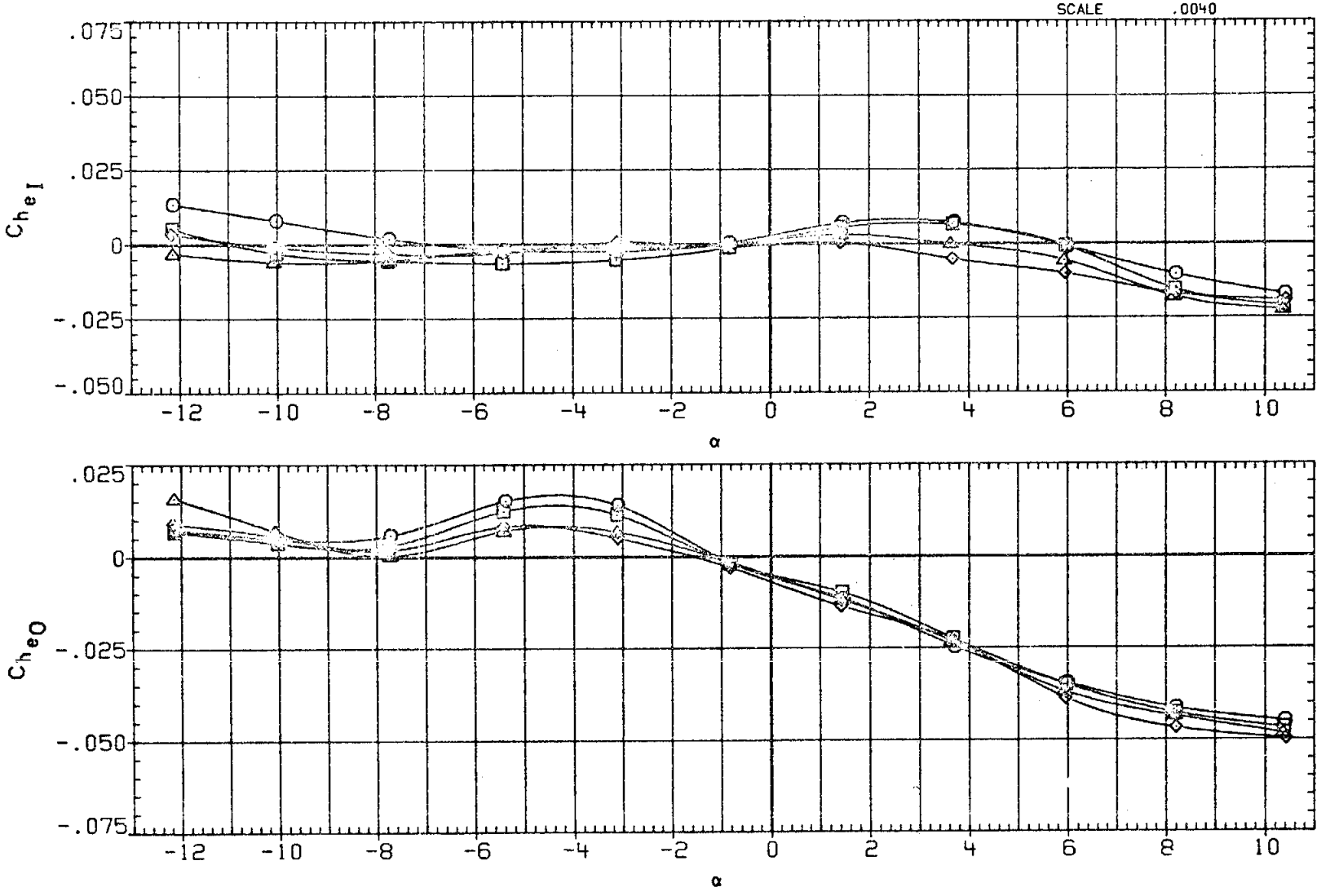


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

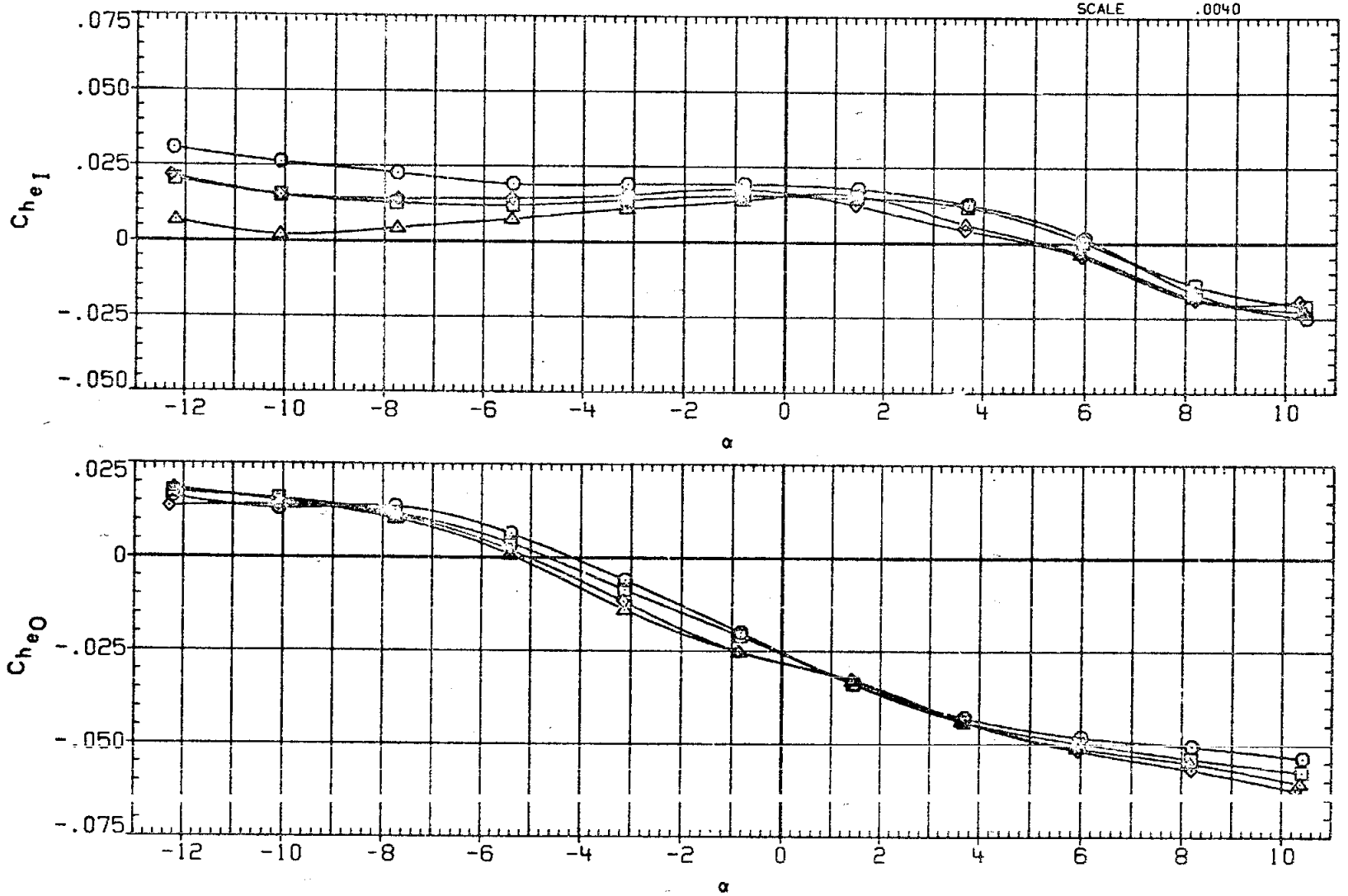


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

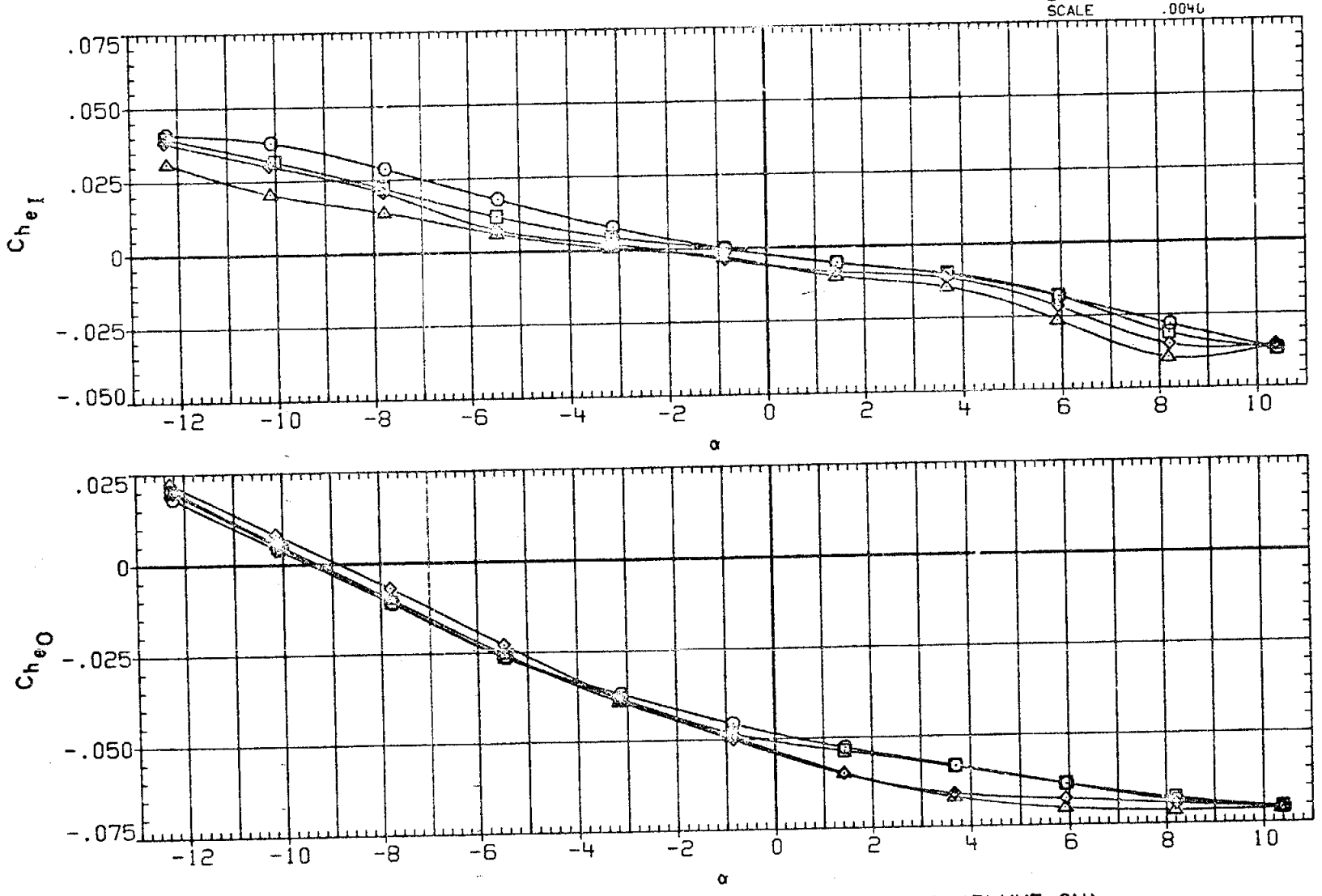


FIG. 6 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

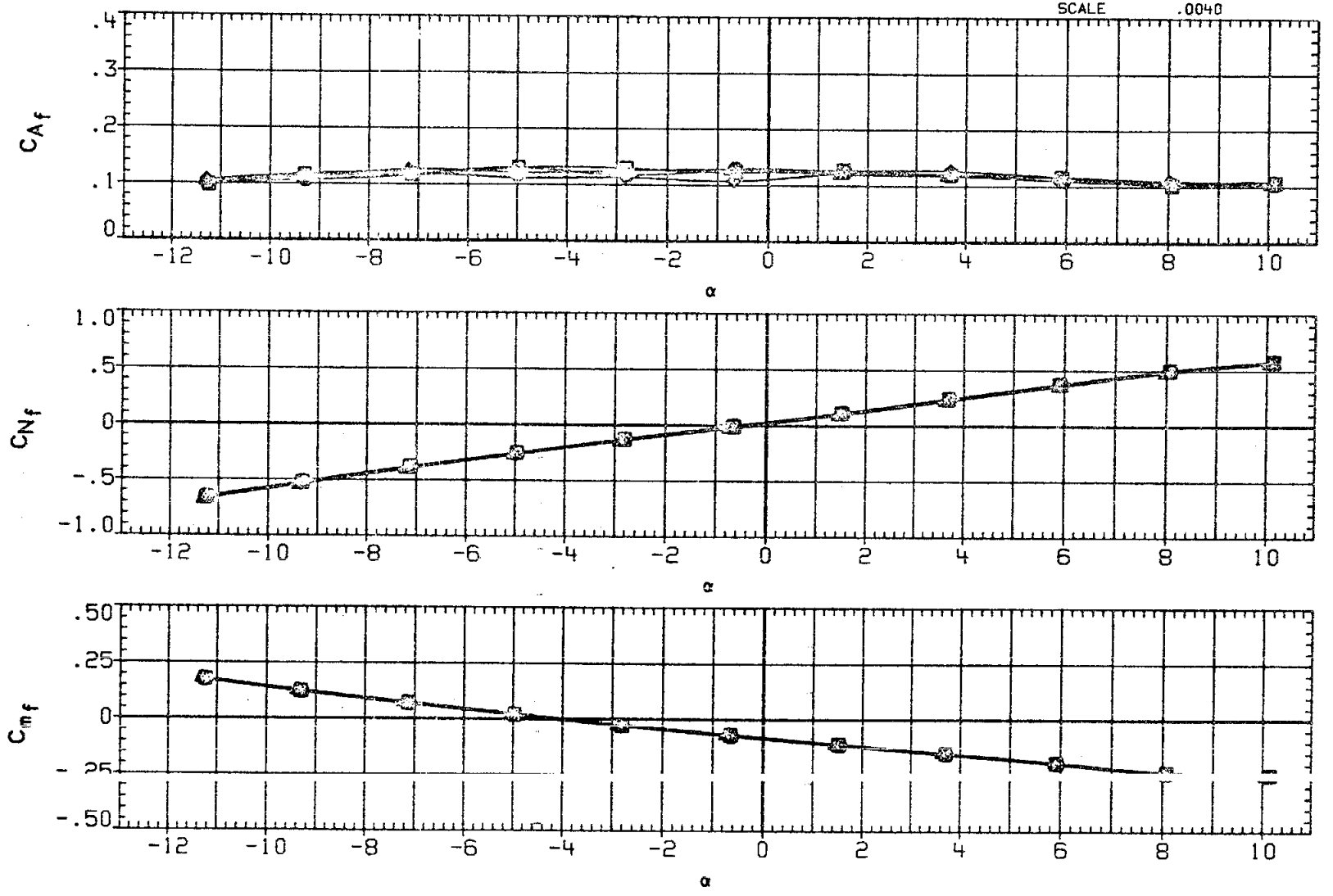


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

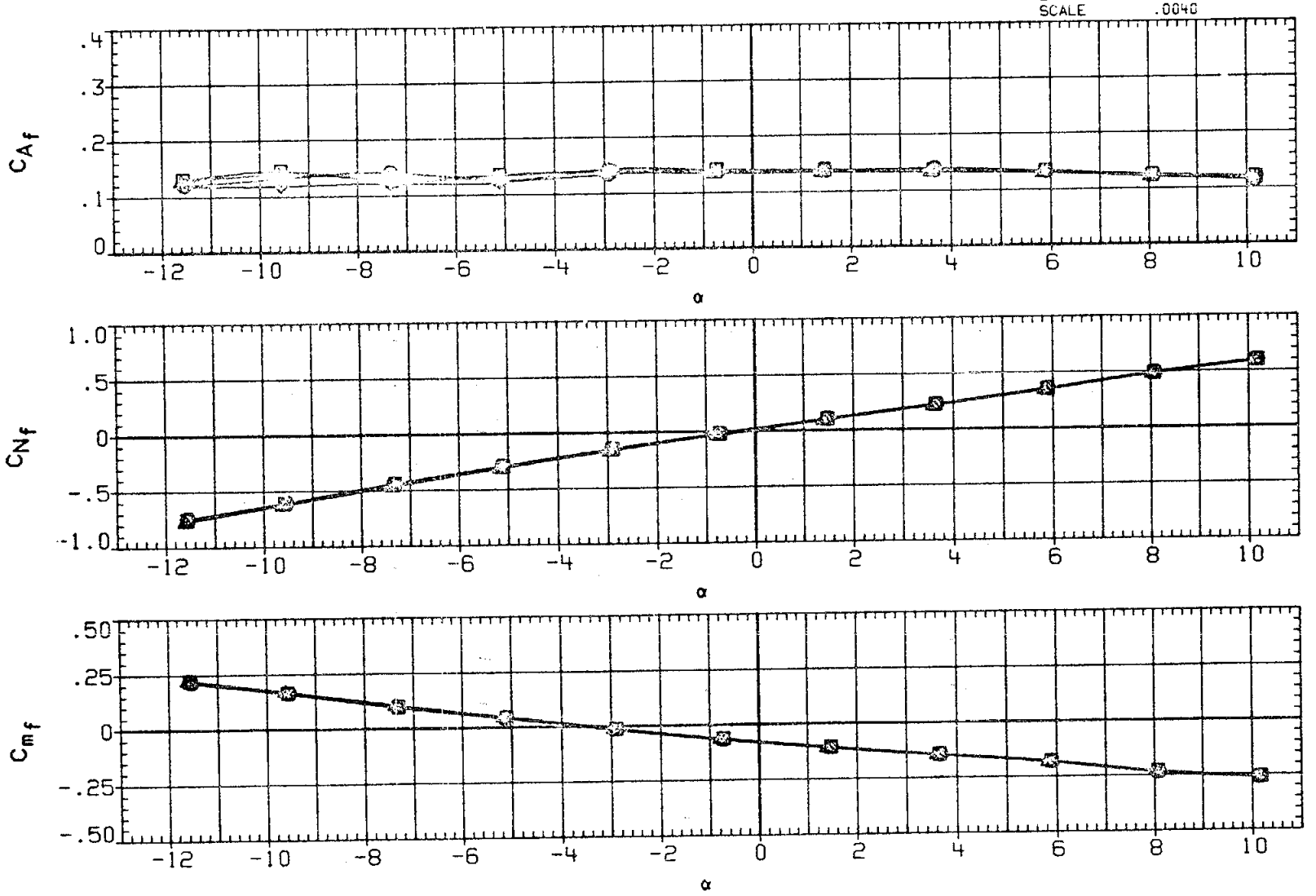


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

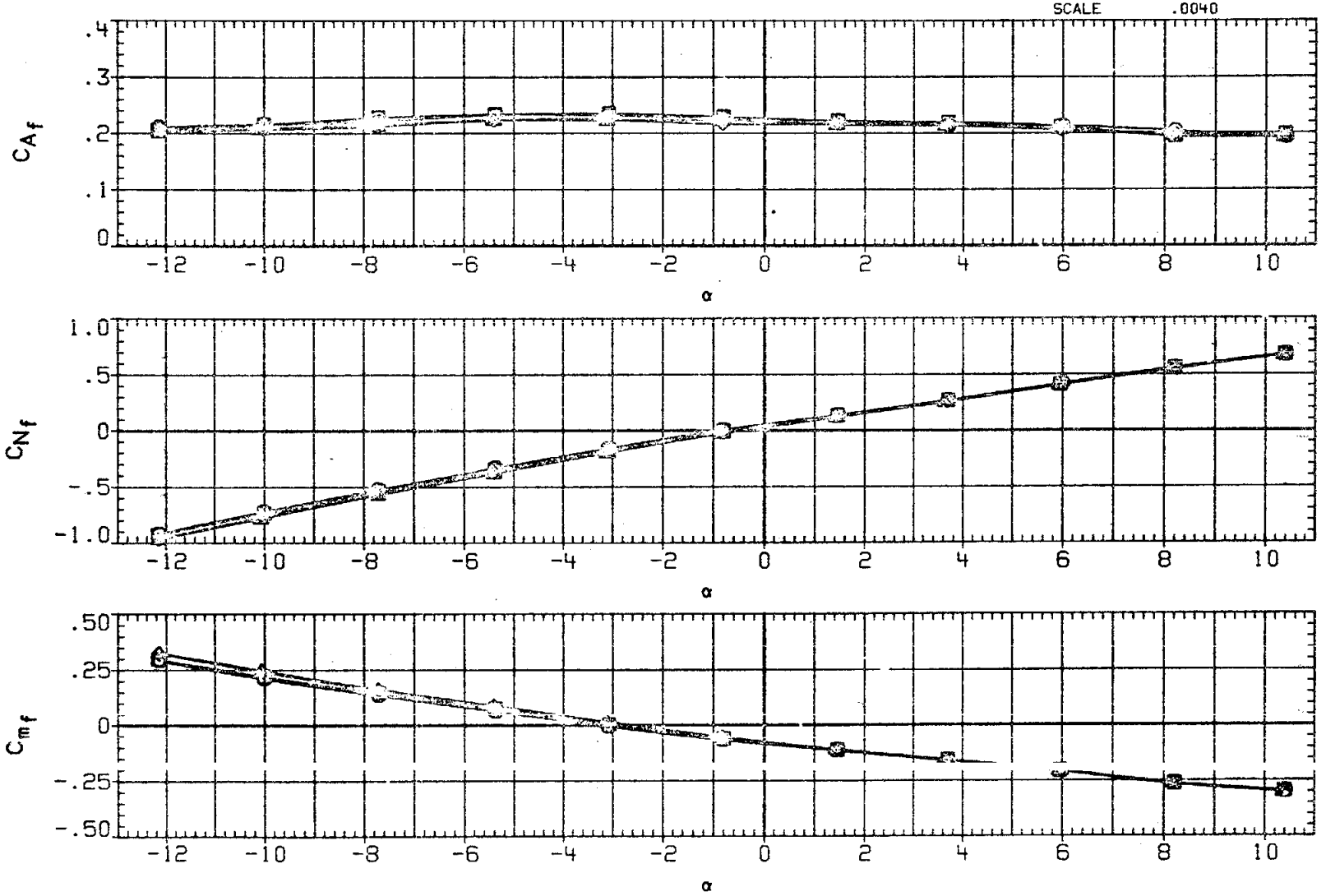


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

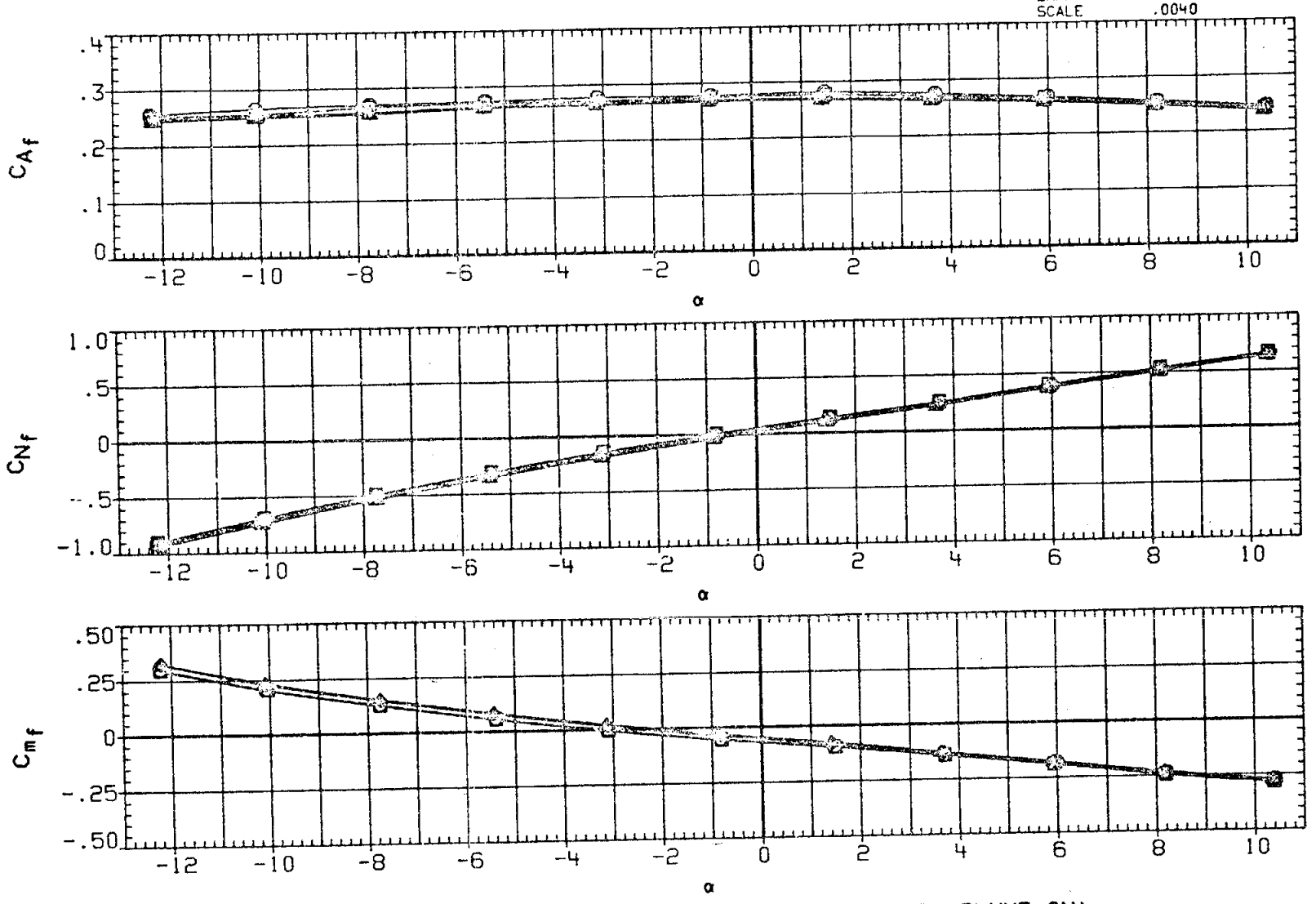


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

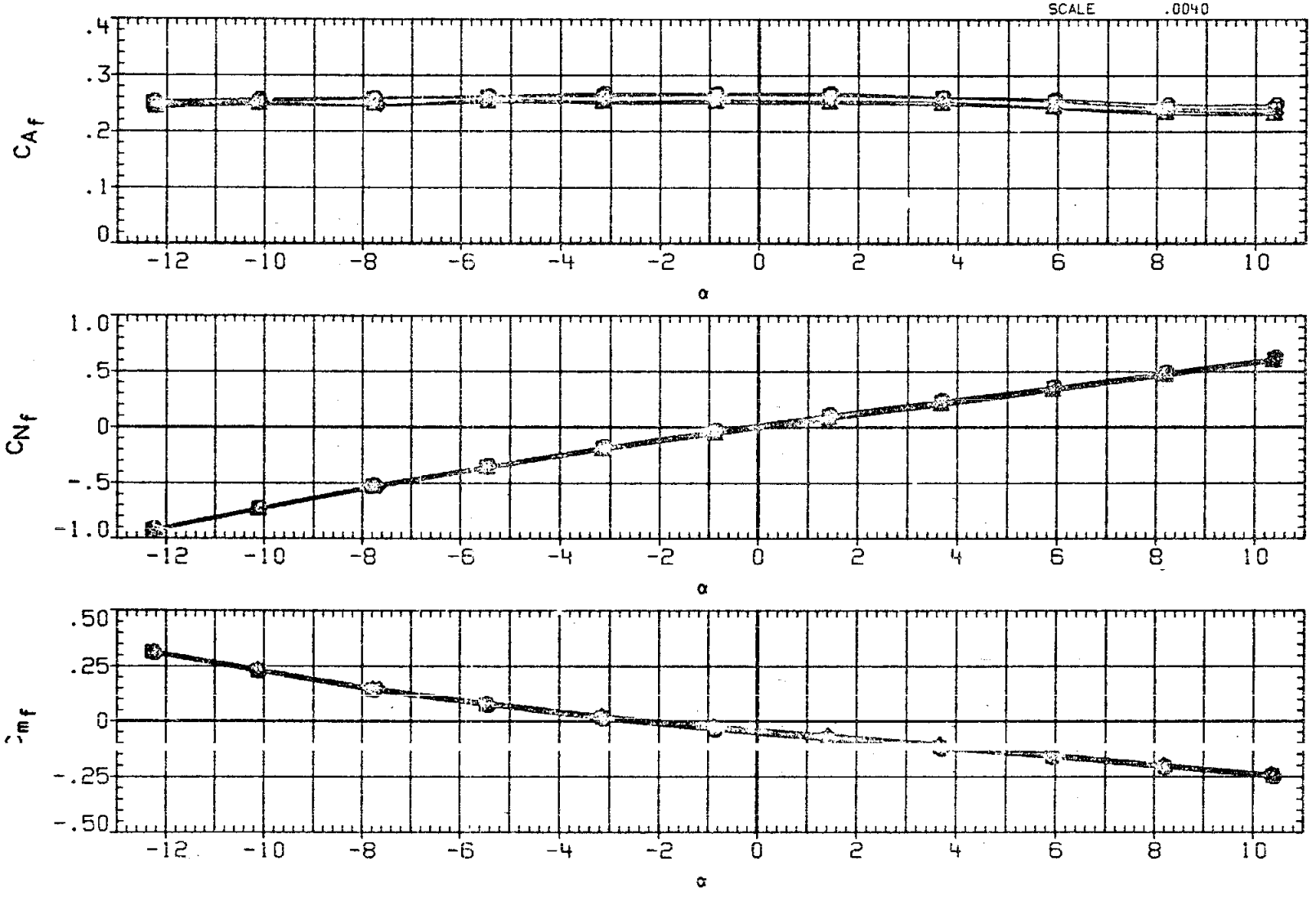


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

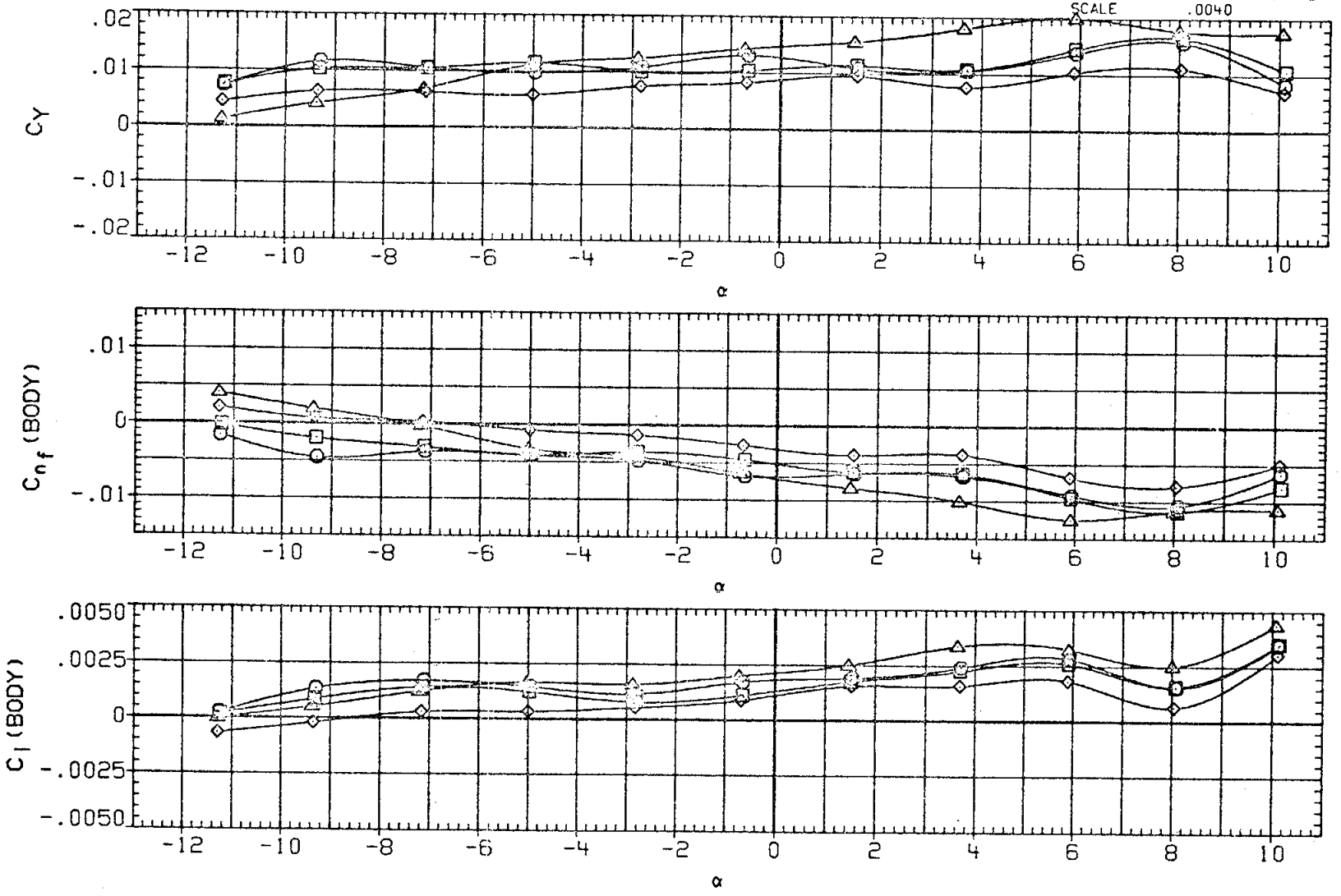


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

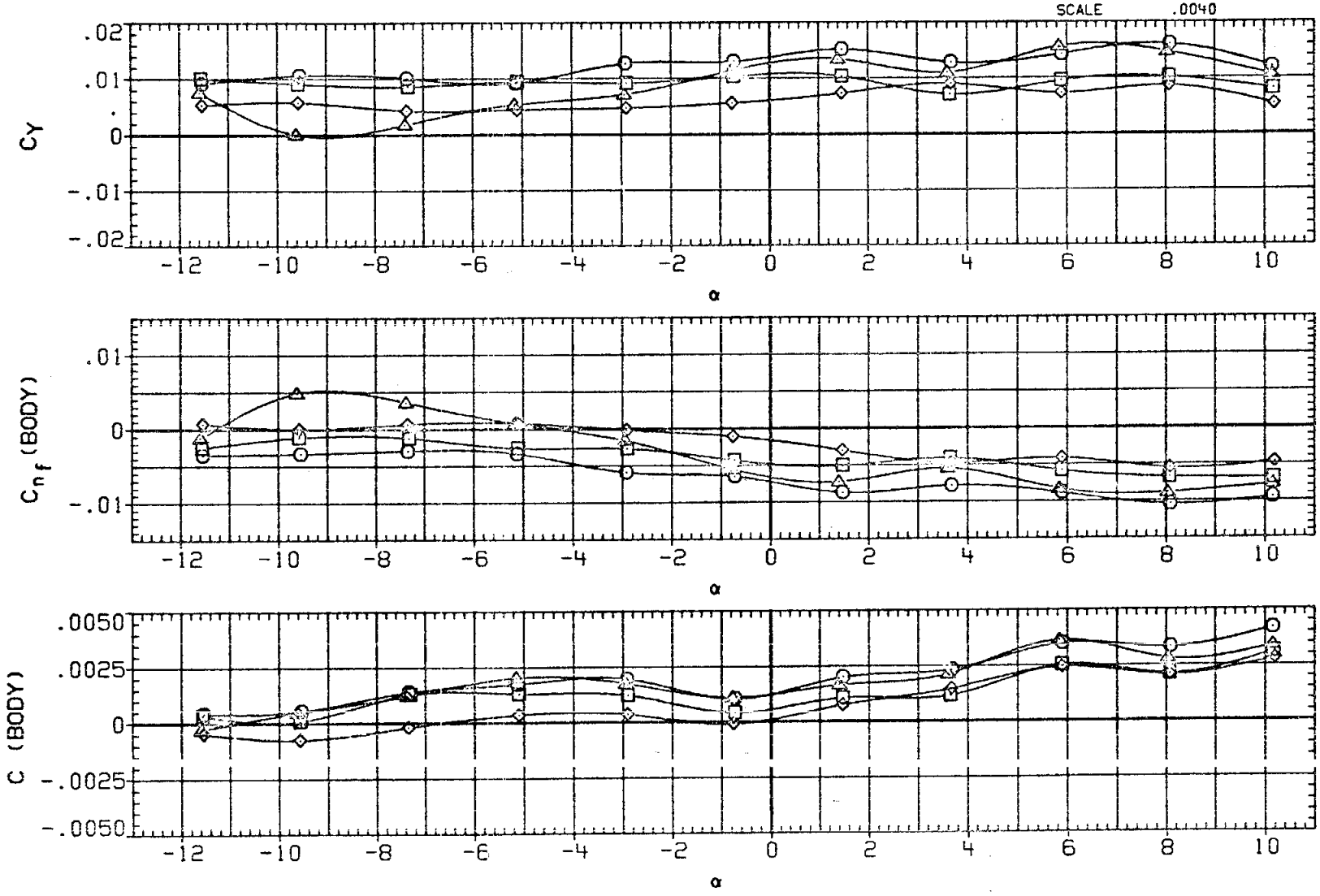


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

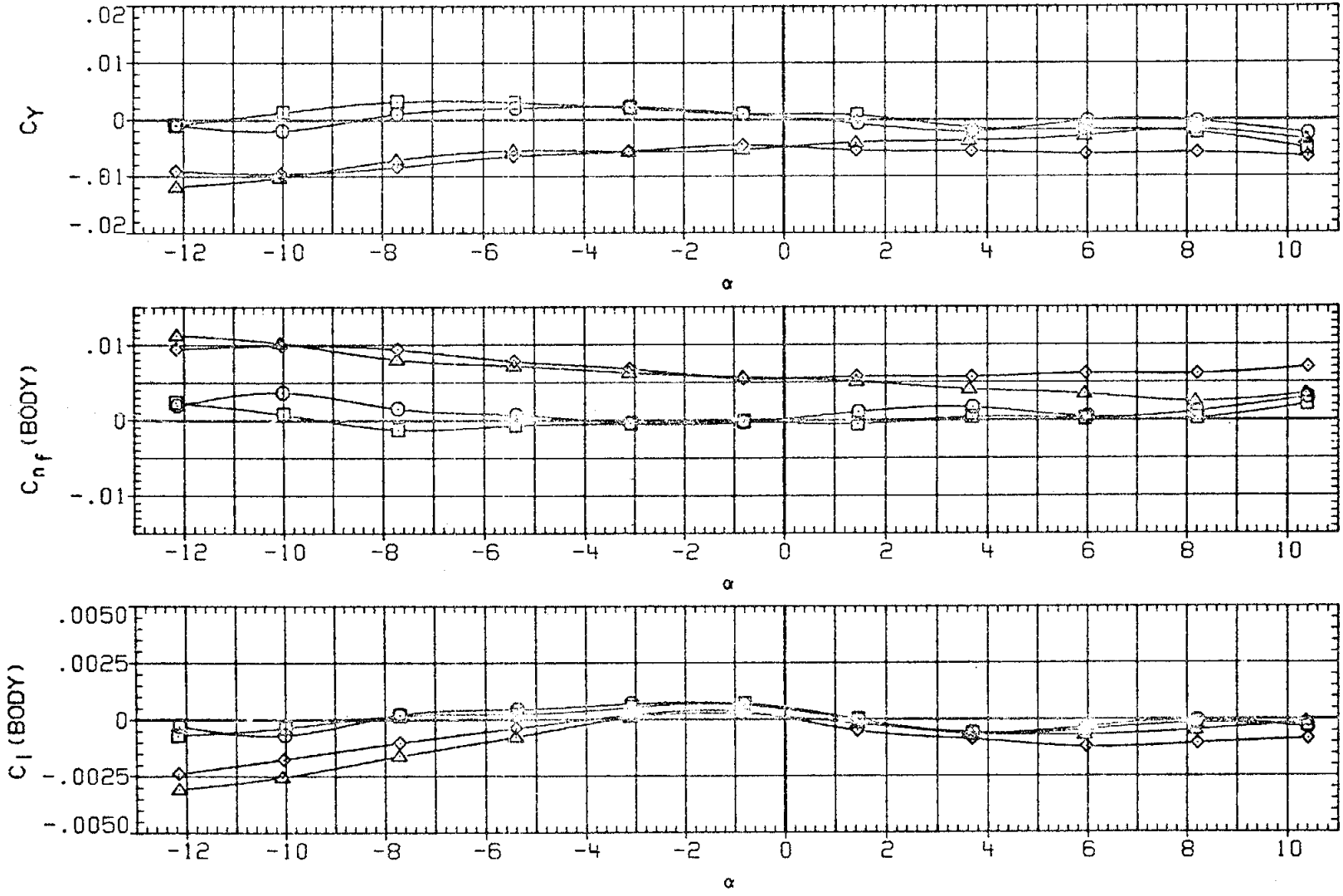


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2600.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

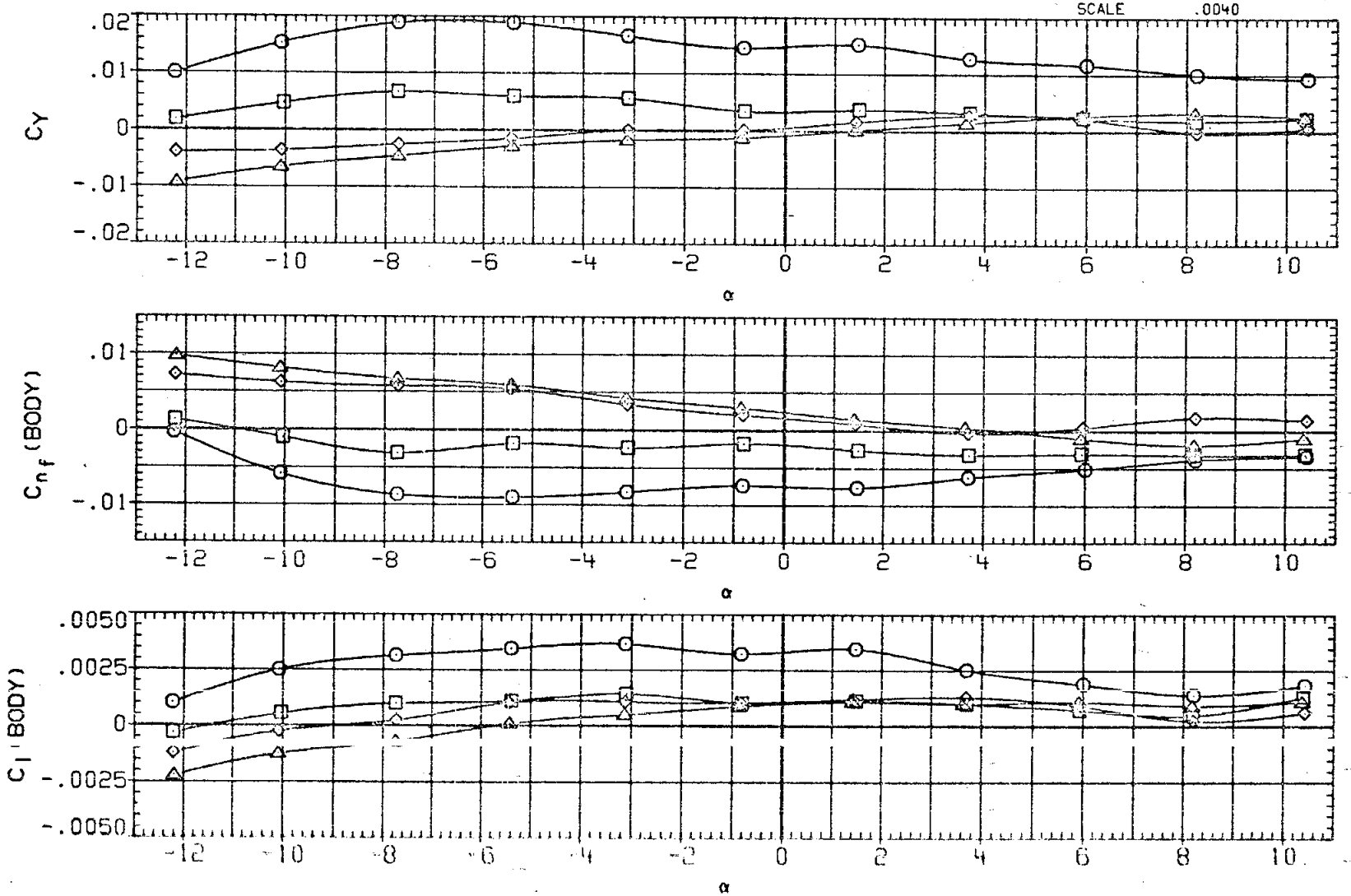


FIG. 7 BASIC DATA - ET/OHG FAIRING EFFECTS - POSITION 2 (PLUME ON)

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

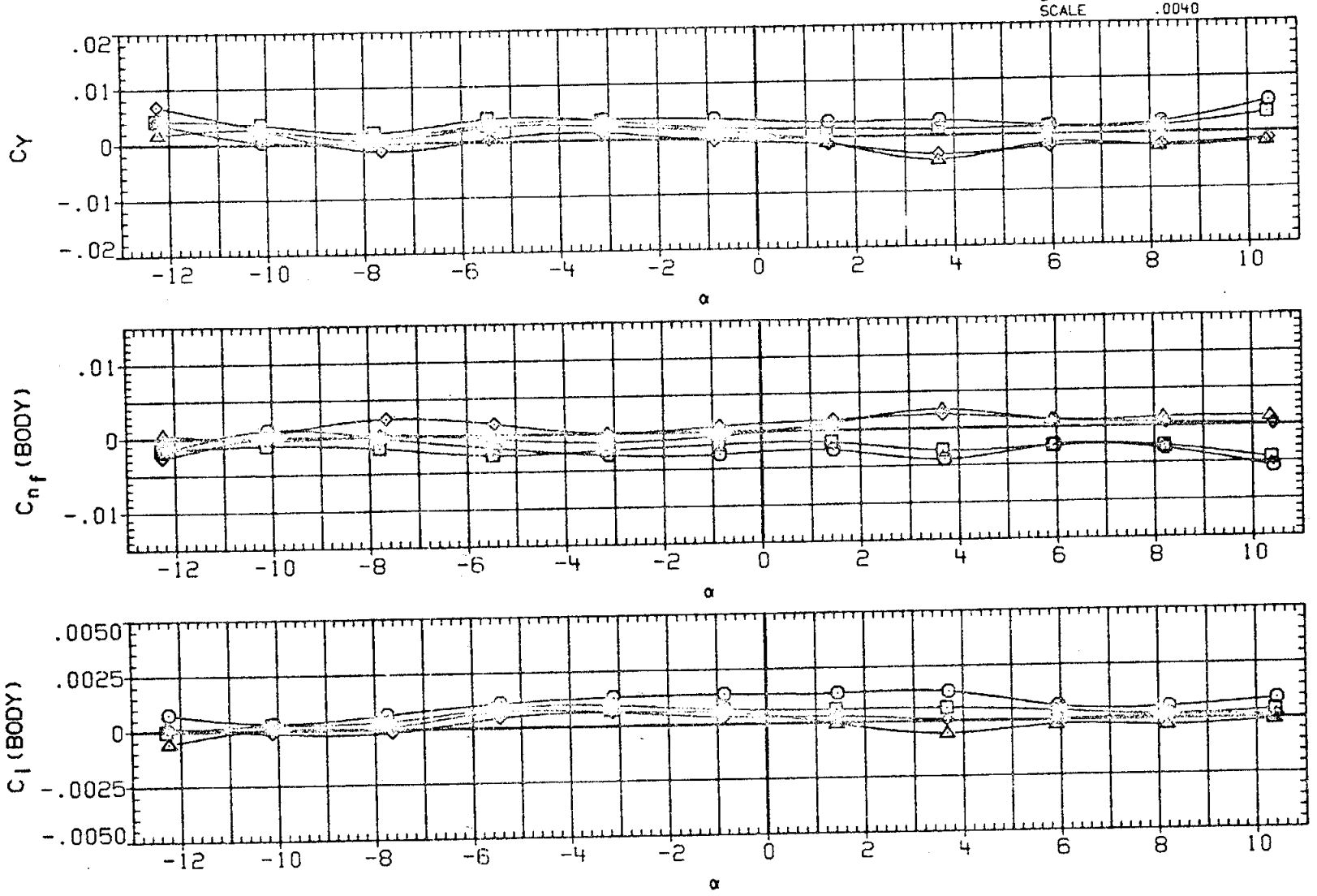


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

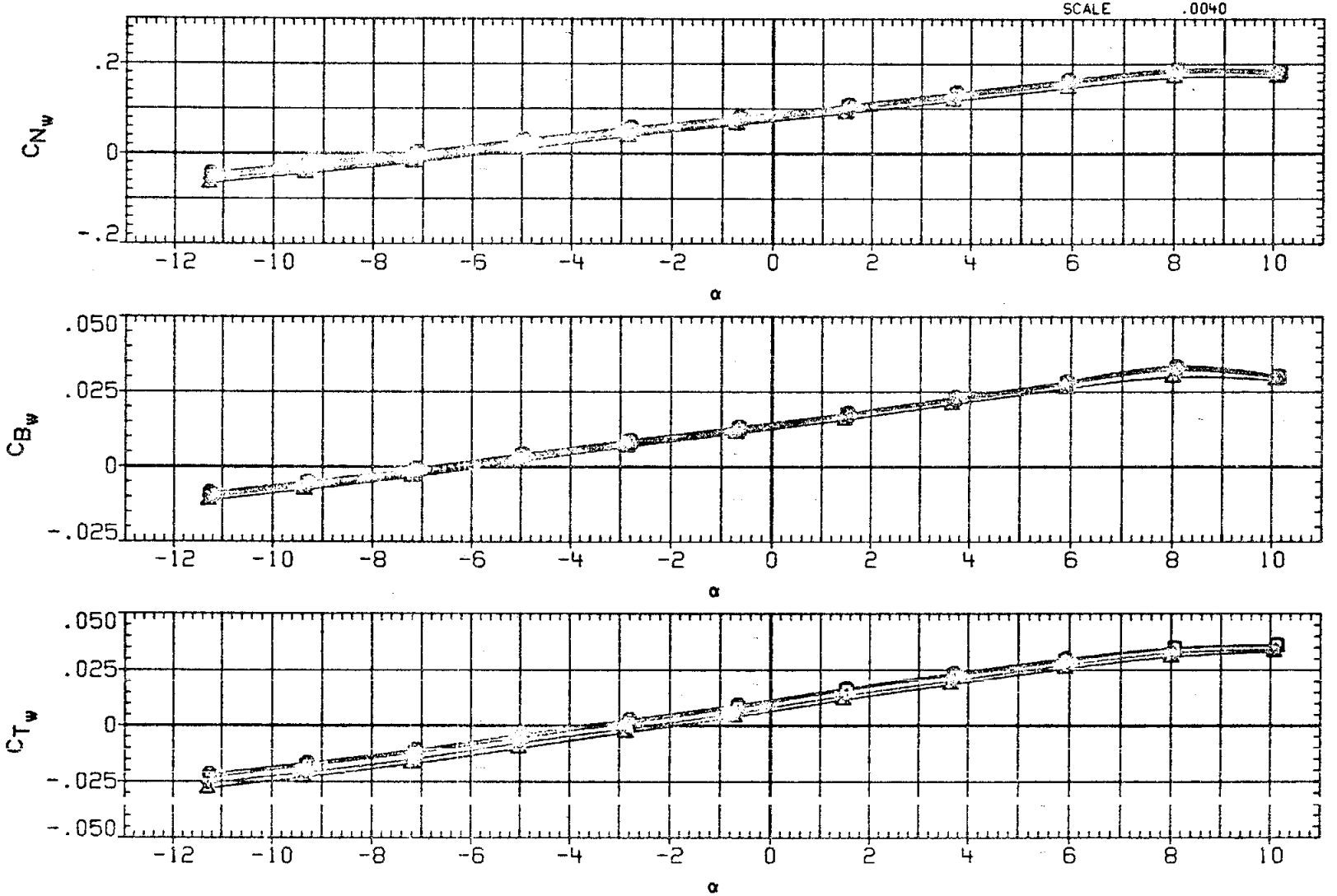


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

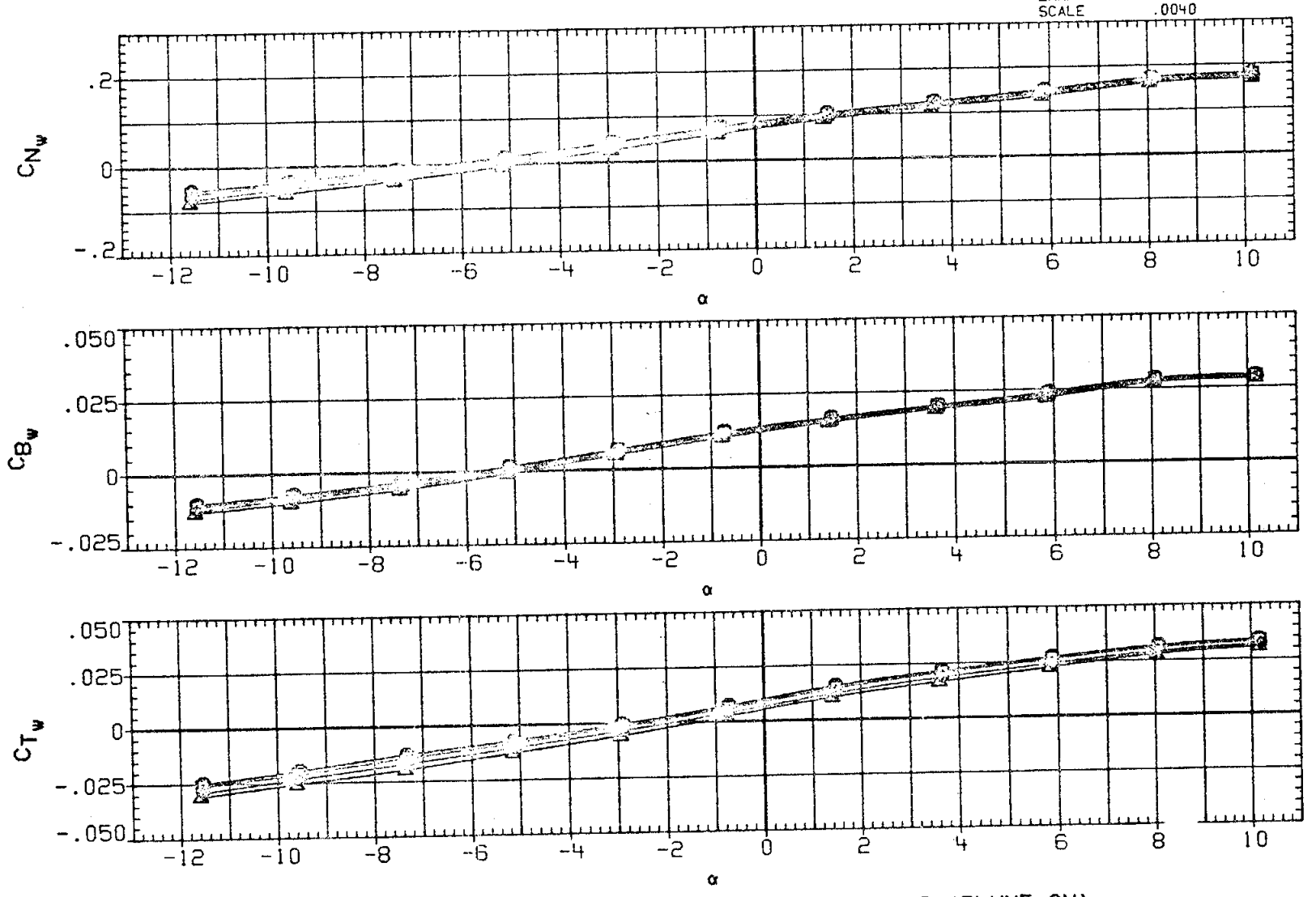


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

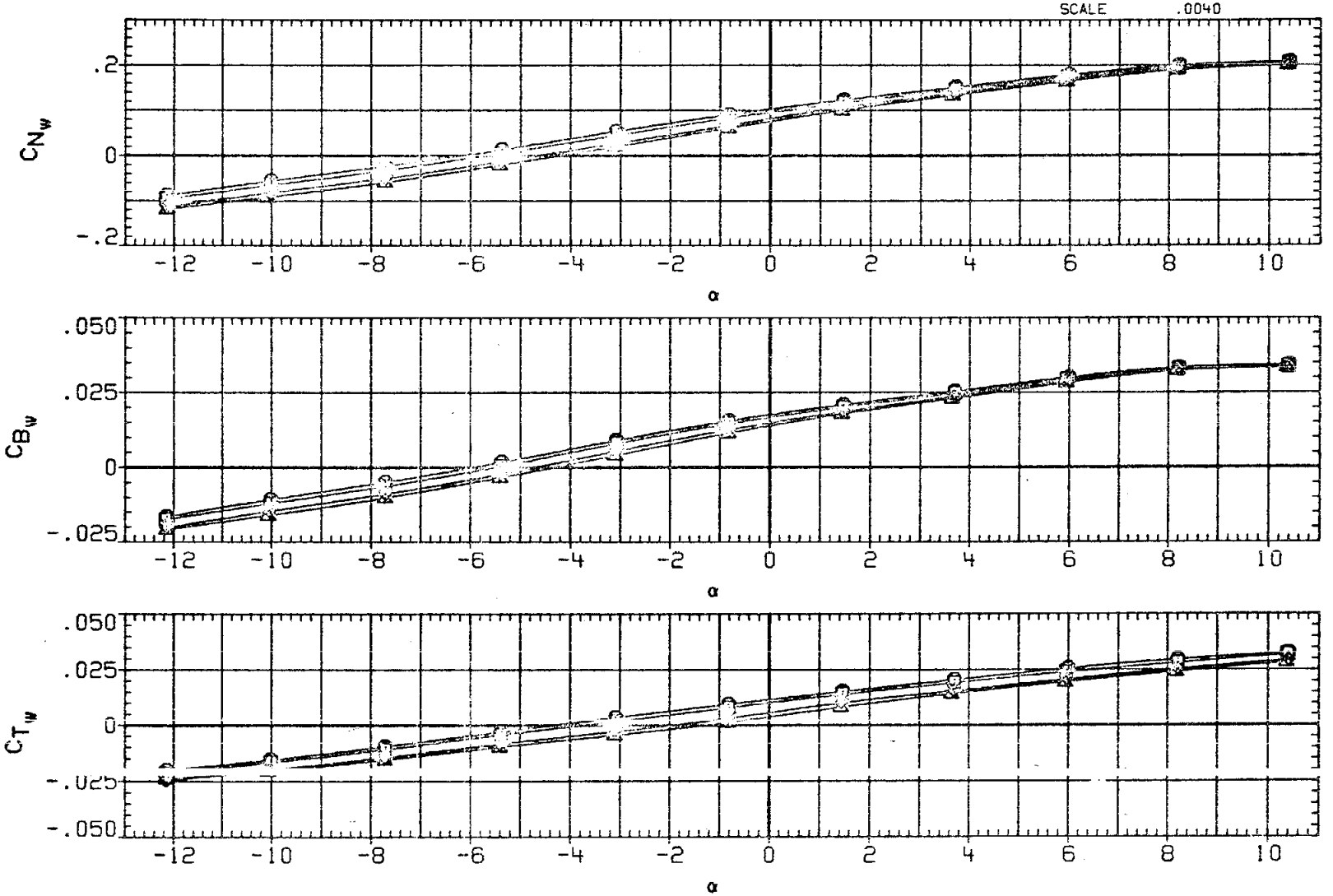


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION		BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) -	PLUME ON	.000	10.000	5.000	ON
TA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)-	PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)-	PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING -	PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

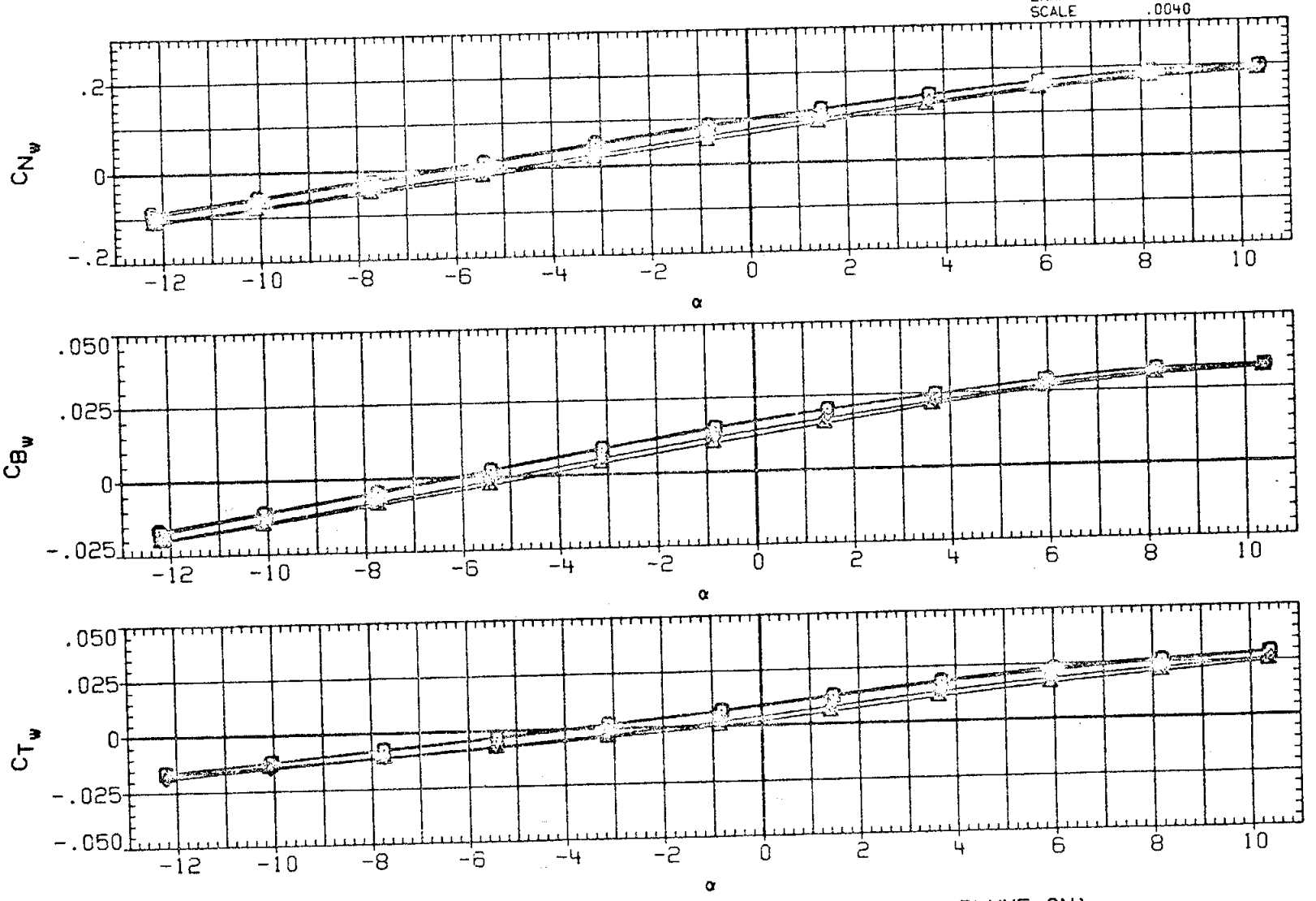


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

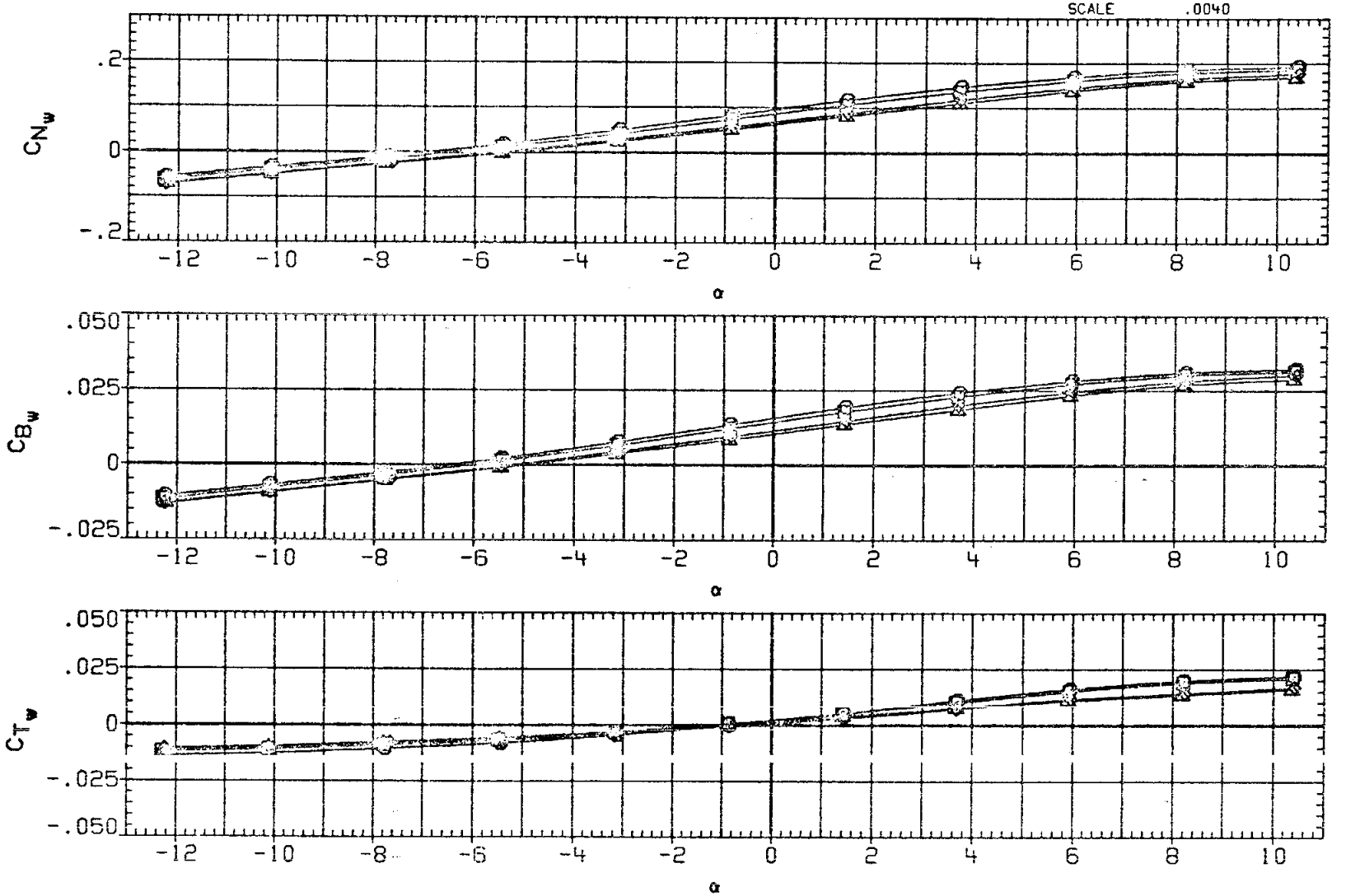


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION		BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) -	PLUME ON	.000	10.000	5.000	ON
TA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)-	PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)-	PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING -	PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

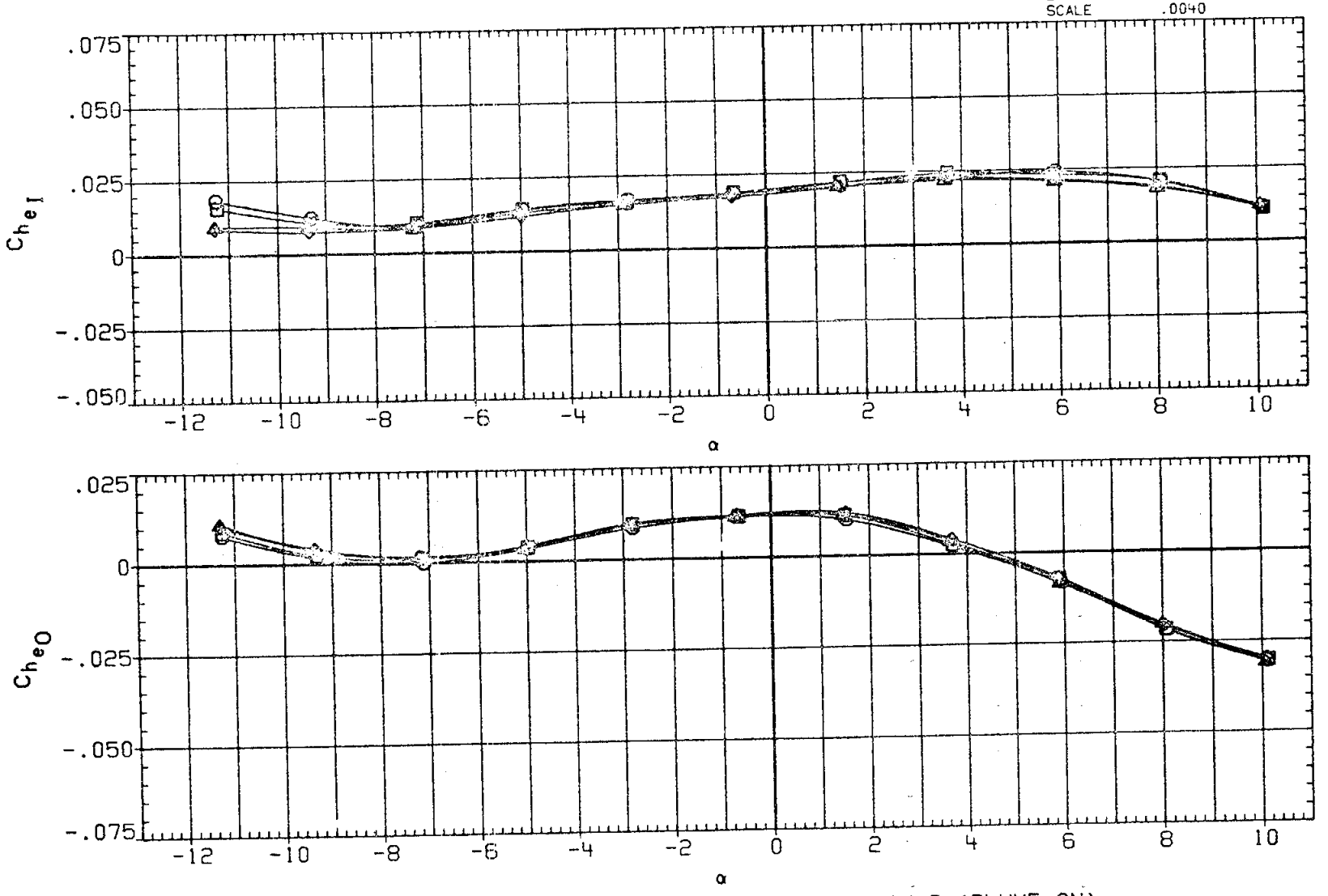


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

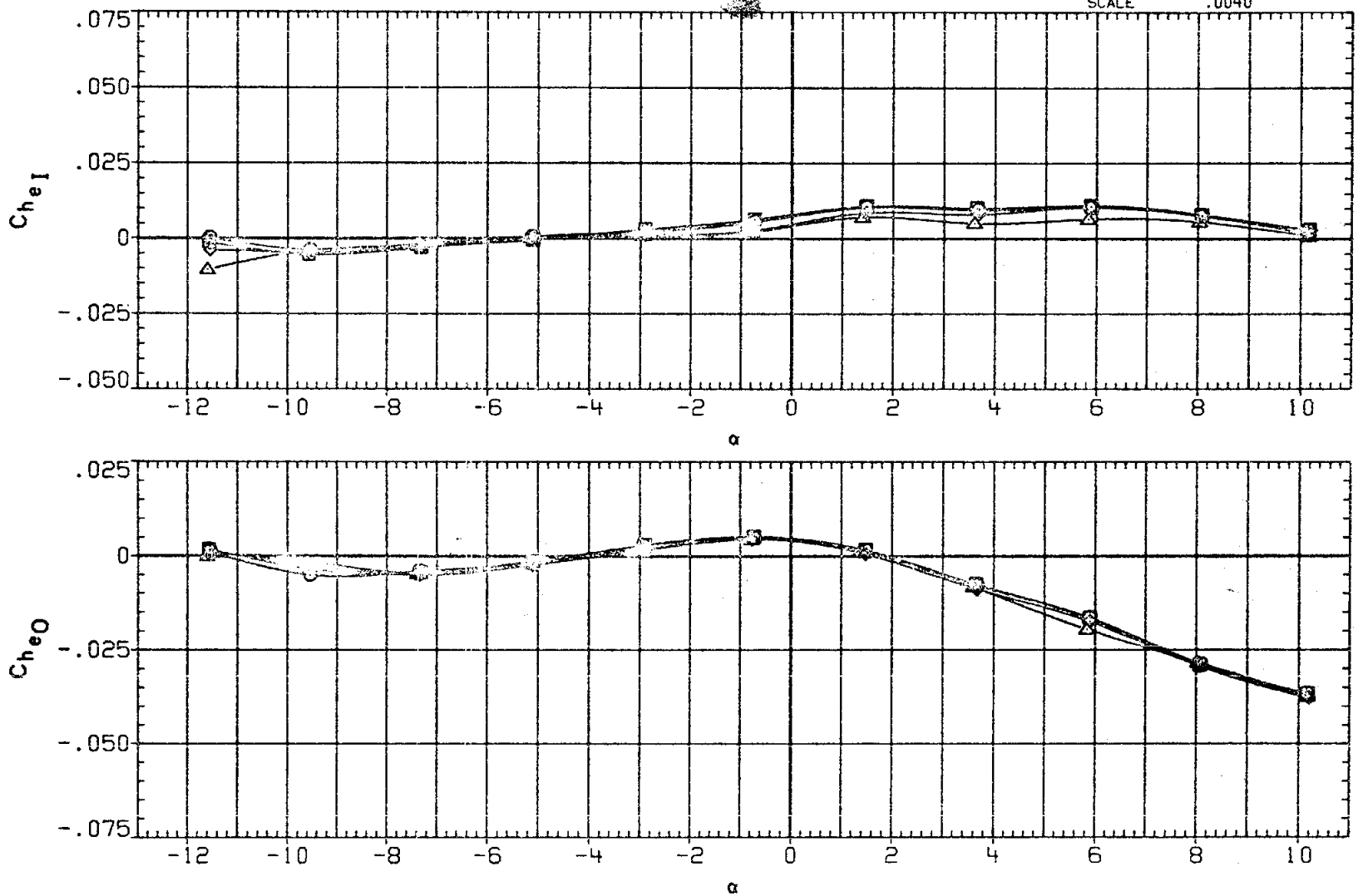


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

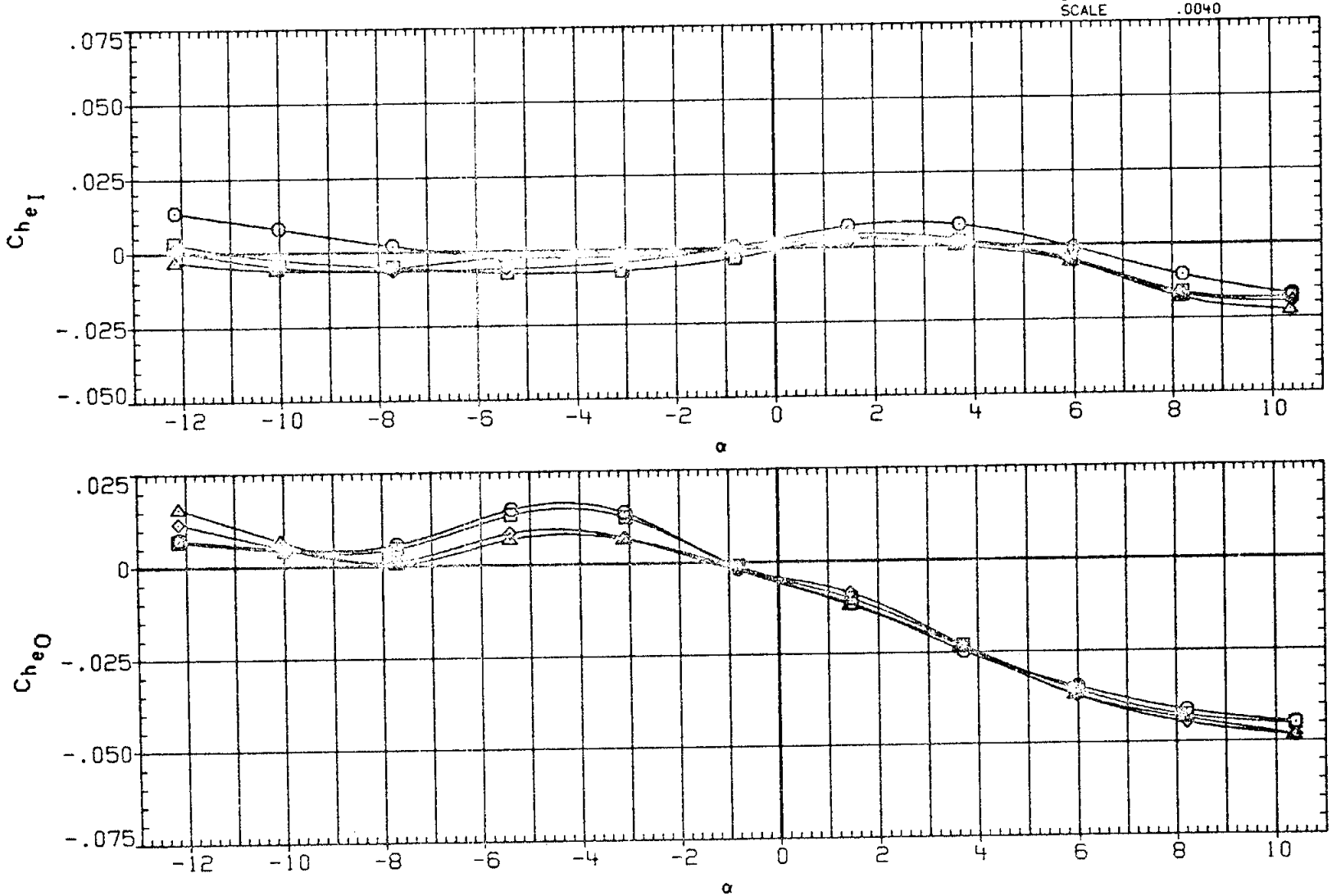


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

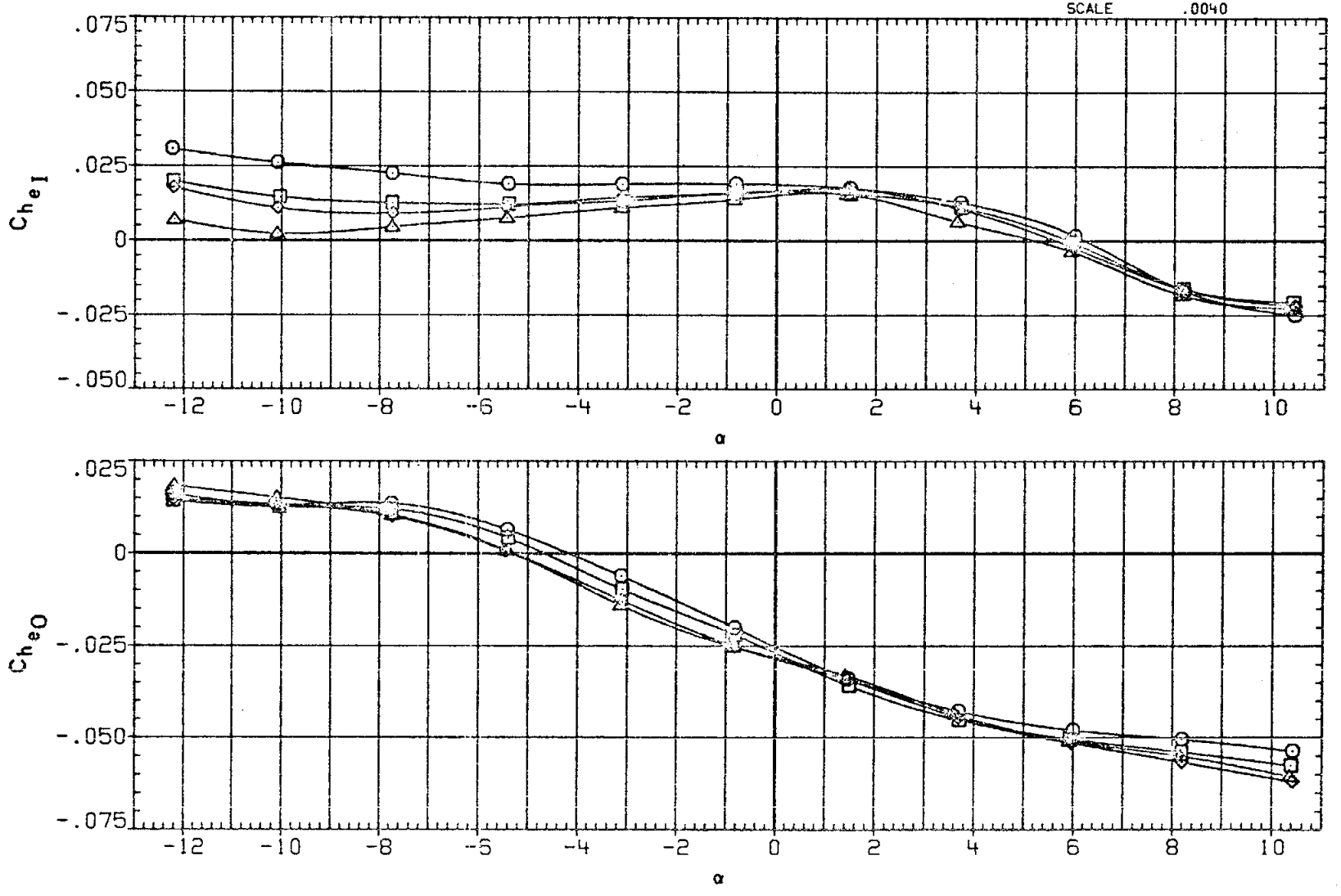


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

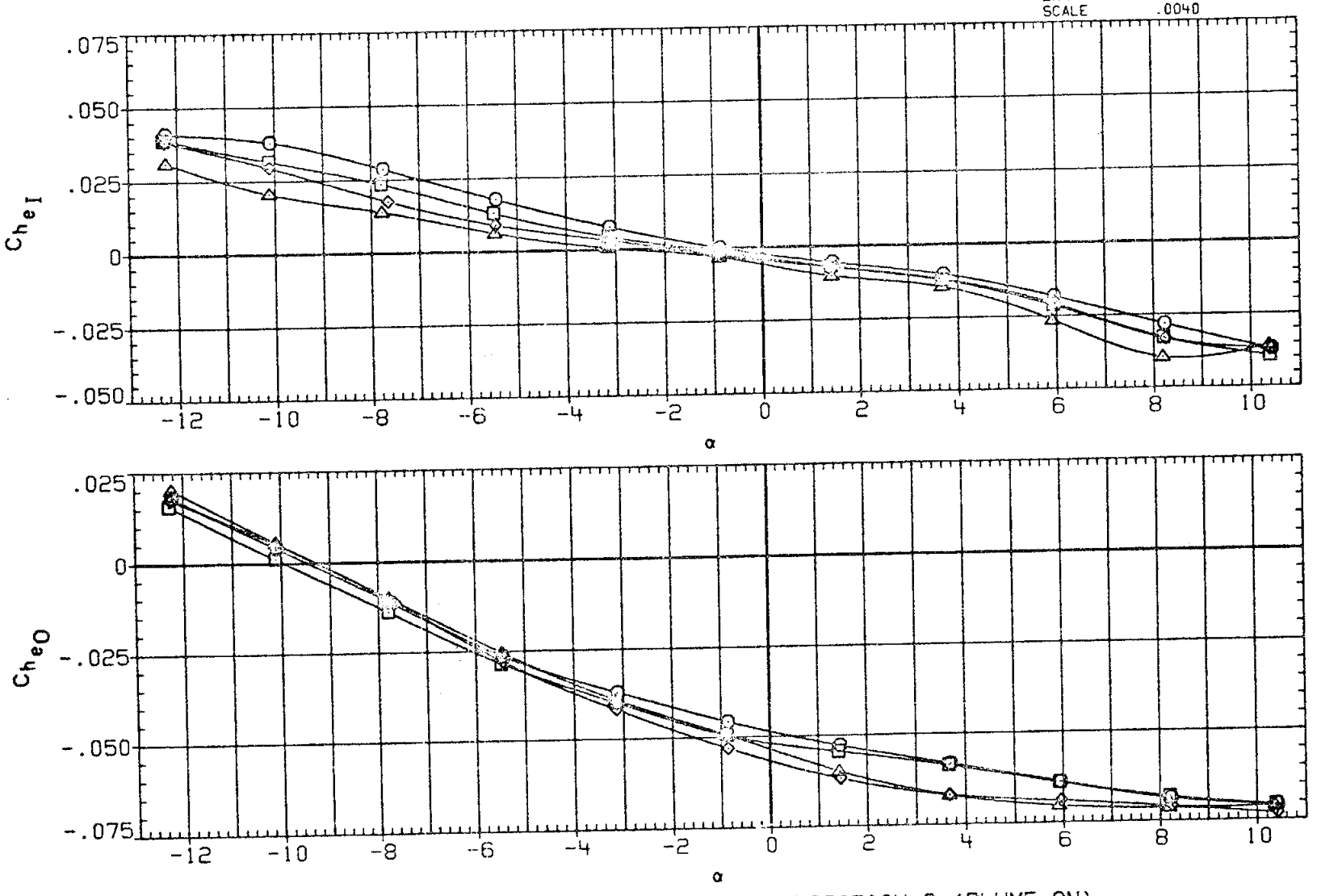


FIG. 7 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

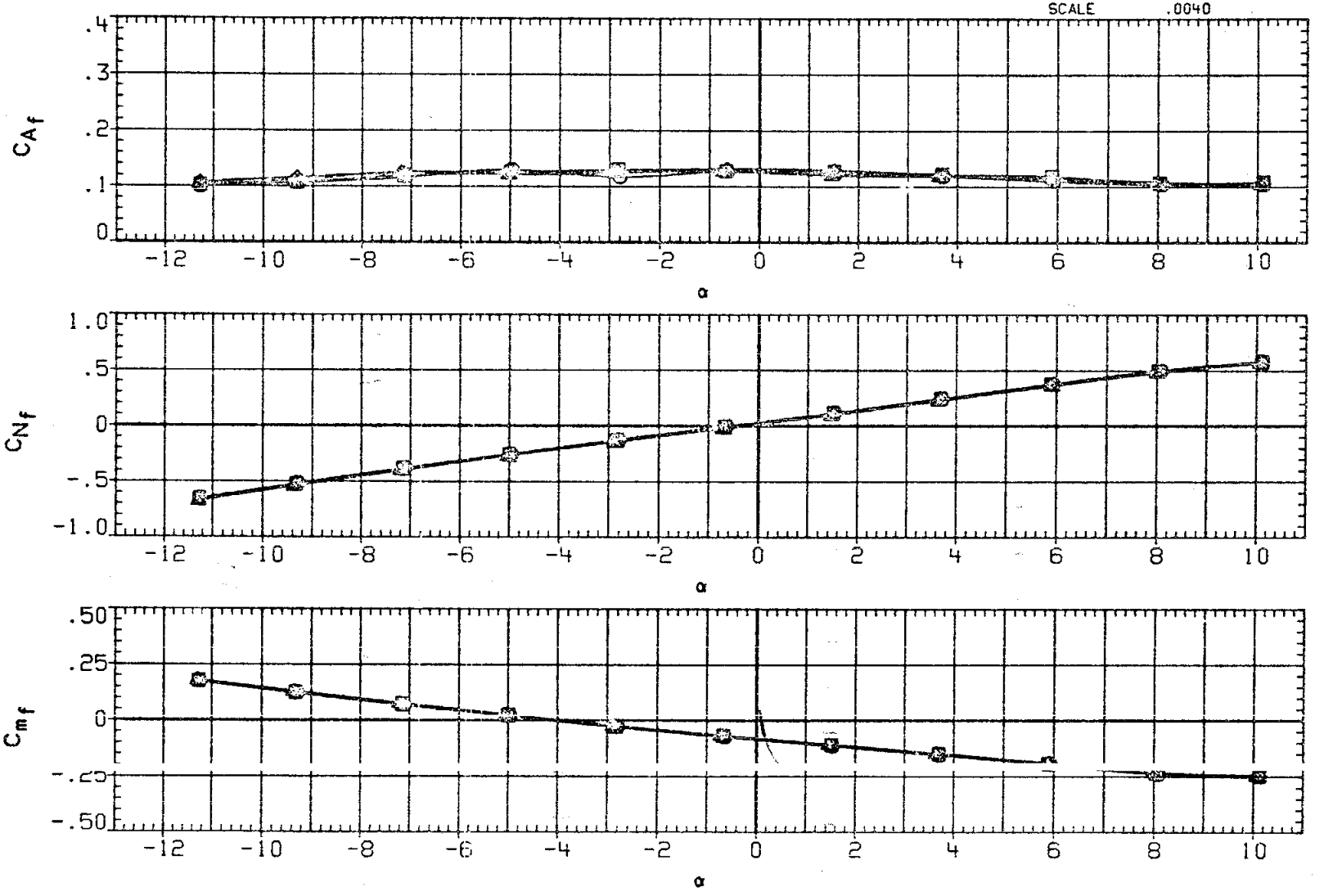


FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A) MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

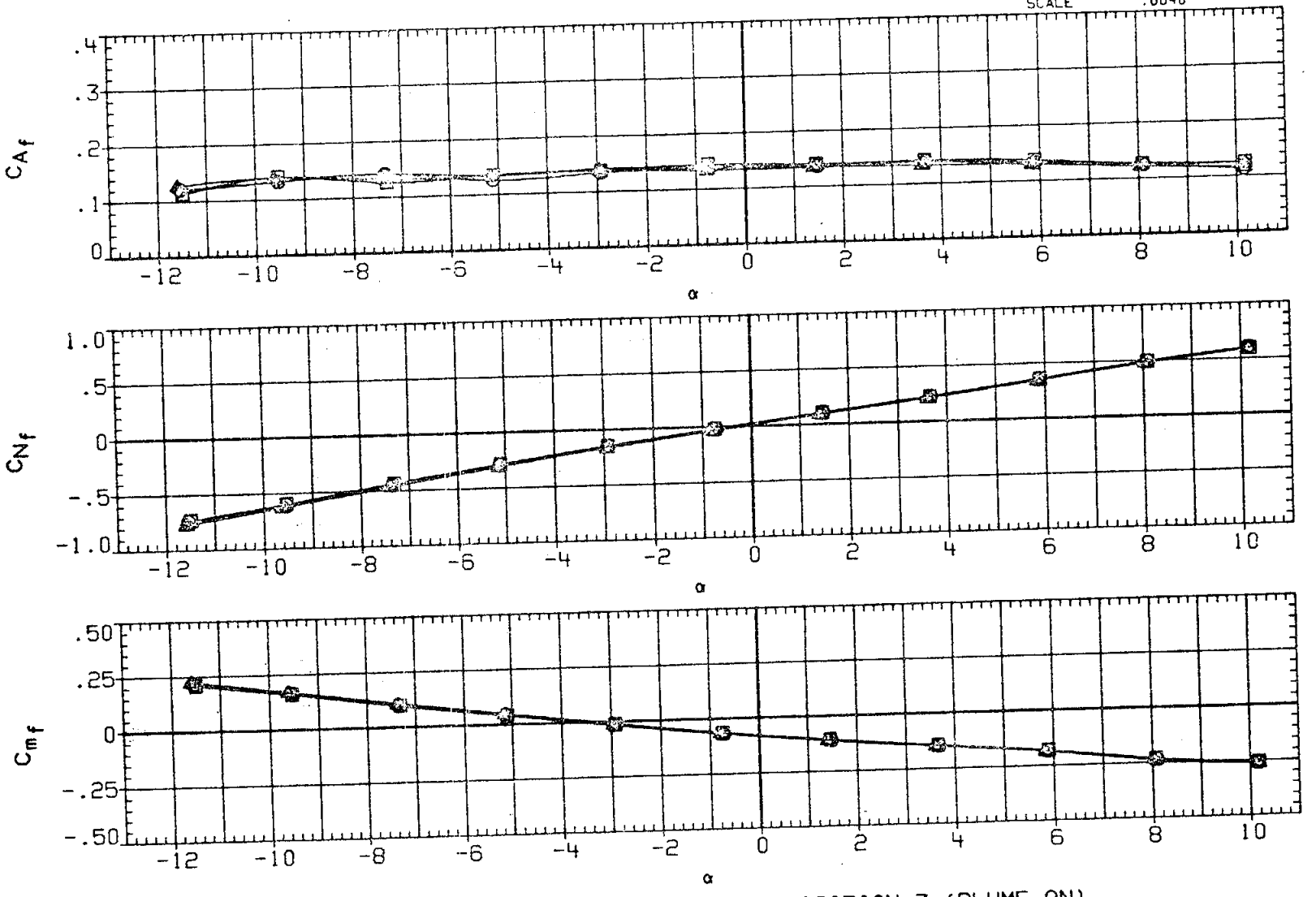


FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

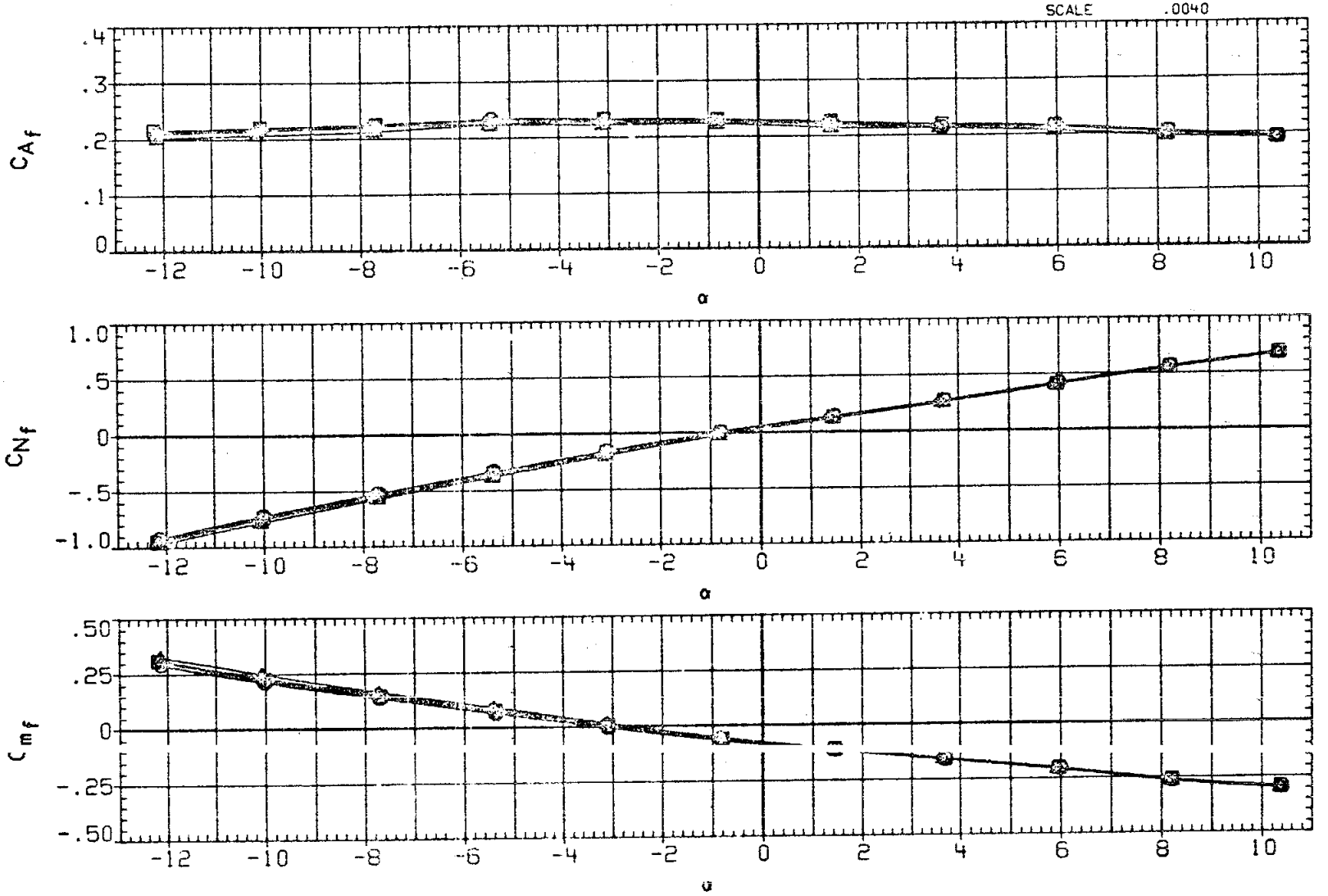


FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS -- POSITION 3 (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

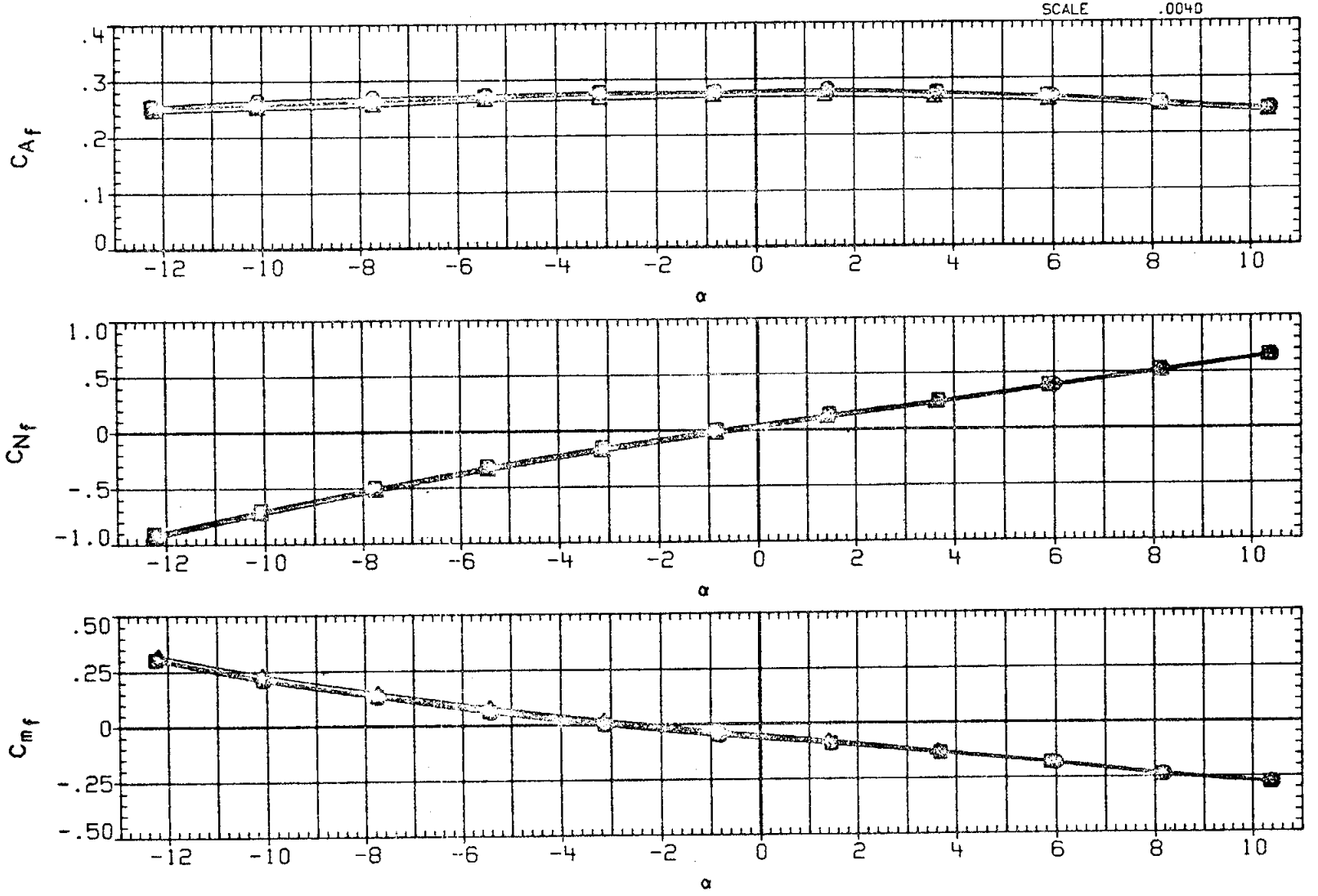


FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION		BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) -	PLUME ON	.000	10.000	5.000	ON
RA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)-	PLUME ON	.000	10.000	5.000	ON
RA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)-	PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING -	PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

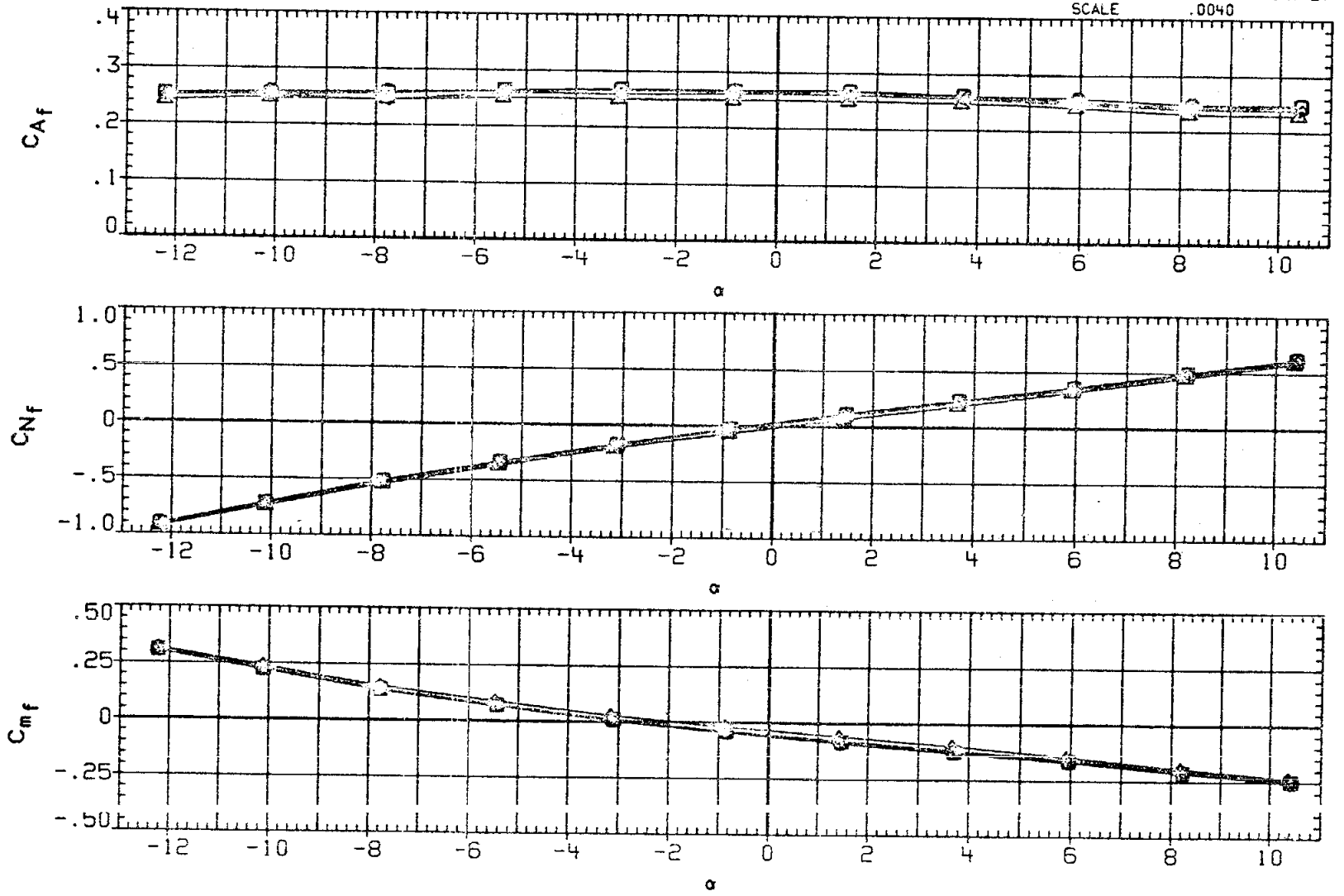


FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692.OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

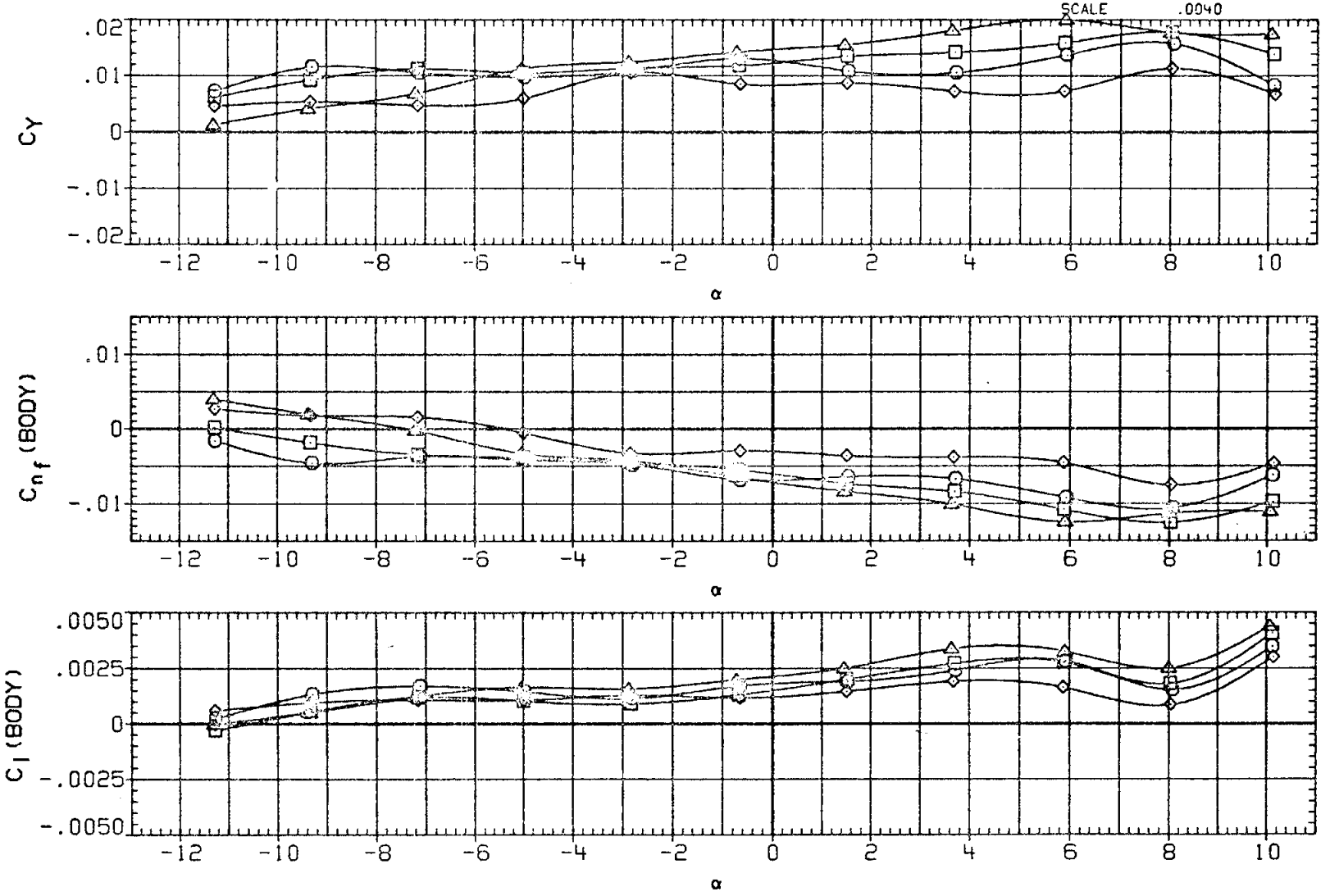


FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

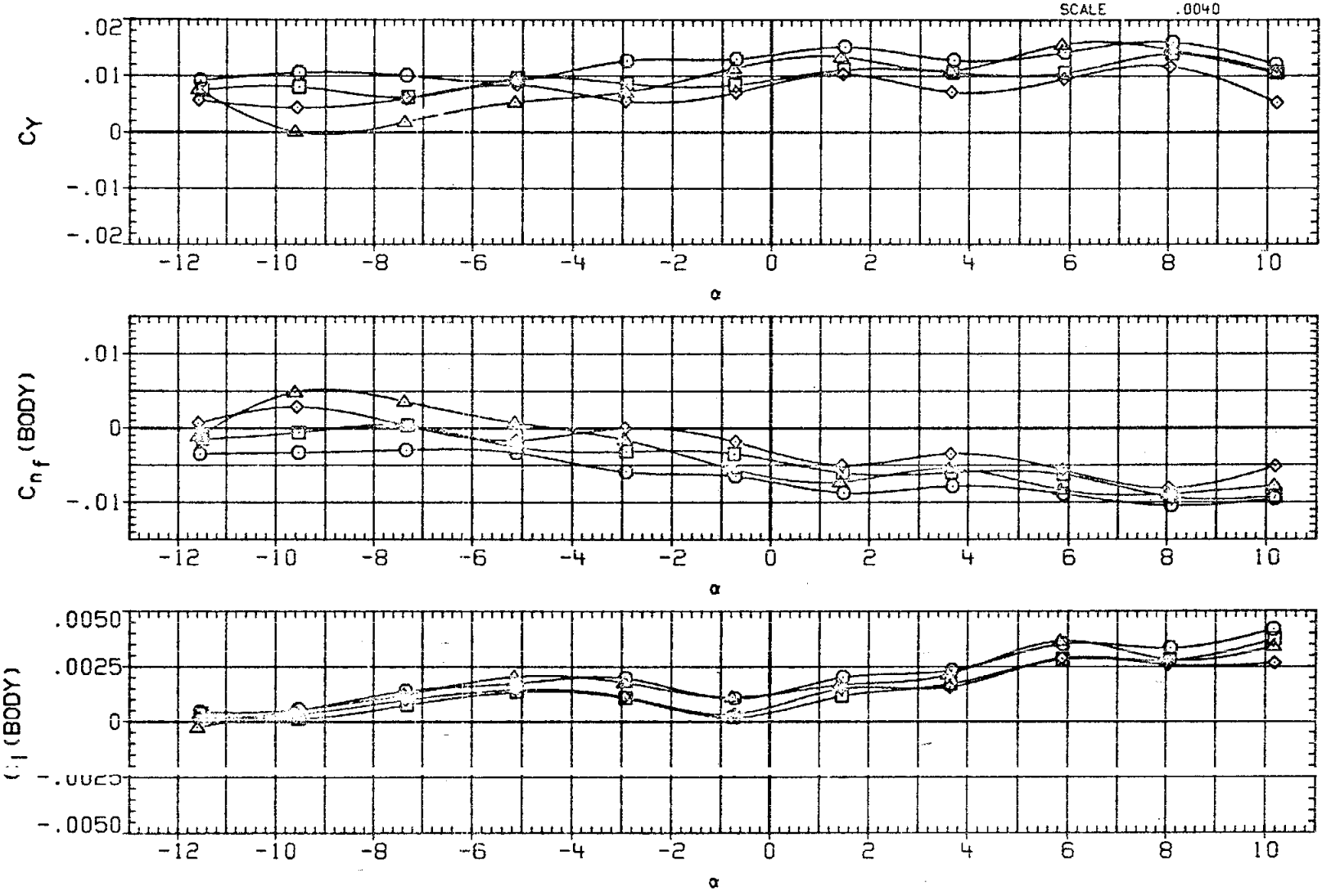


FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

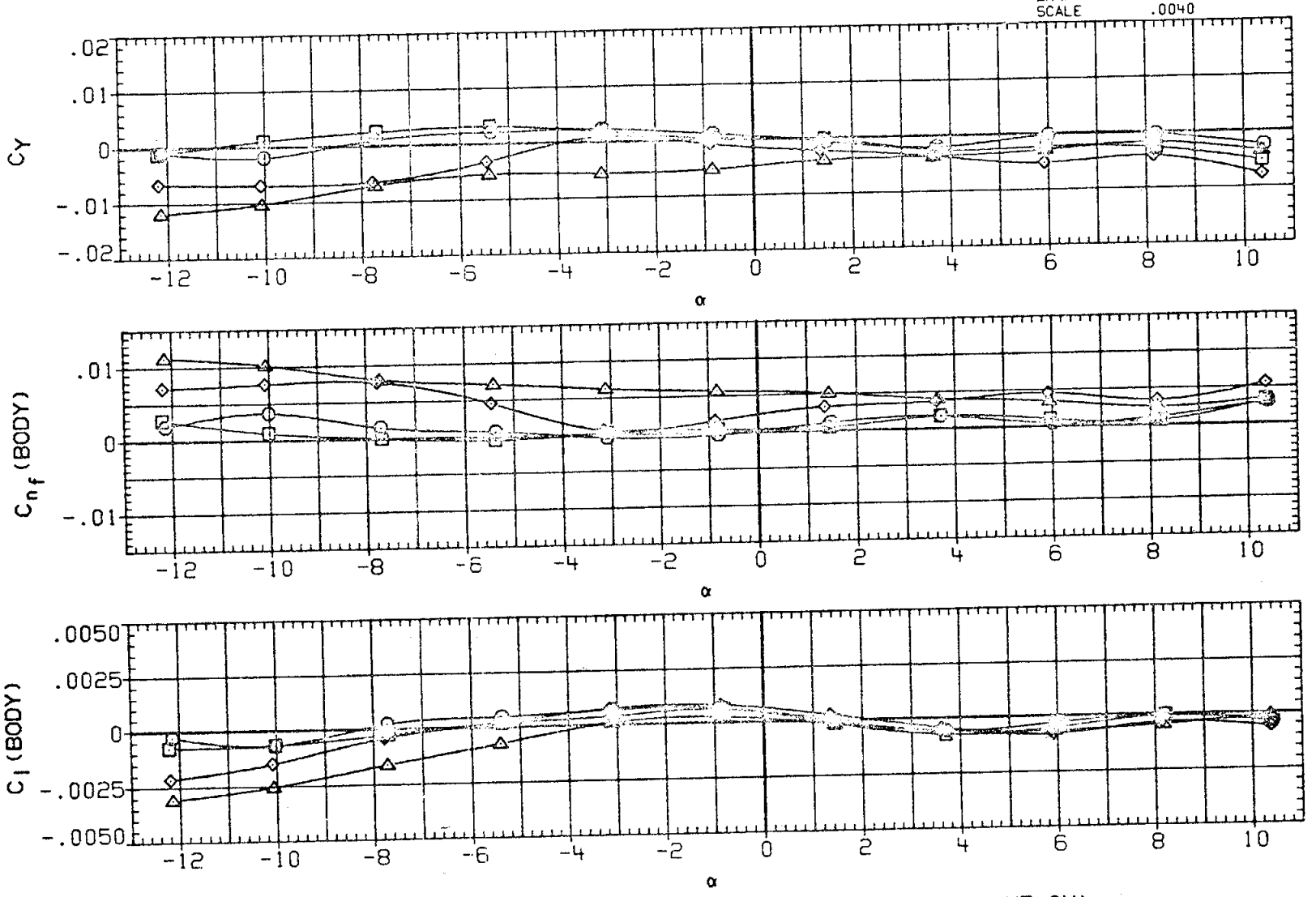


FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

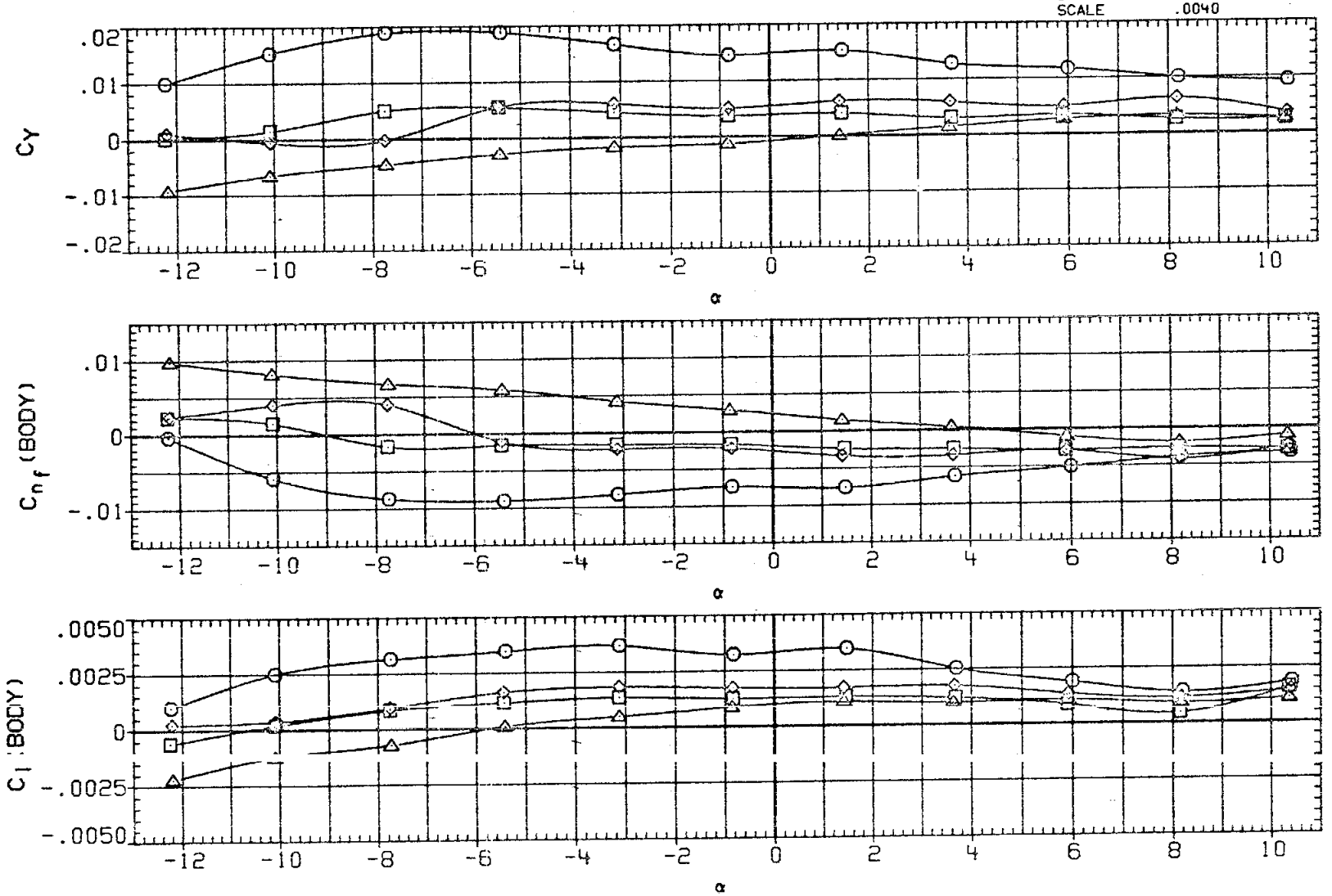


FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
RA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

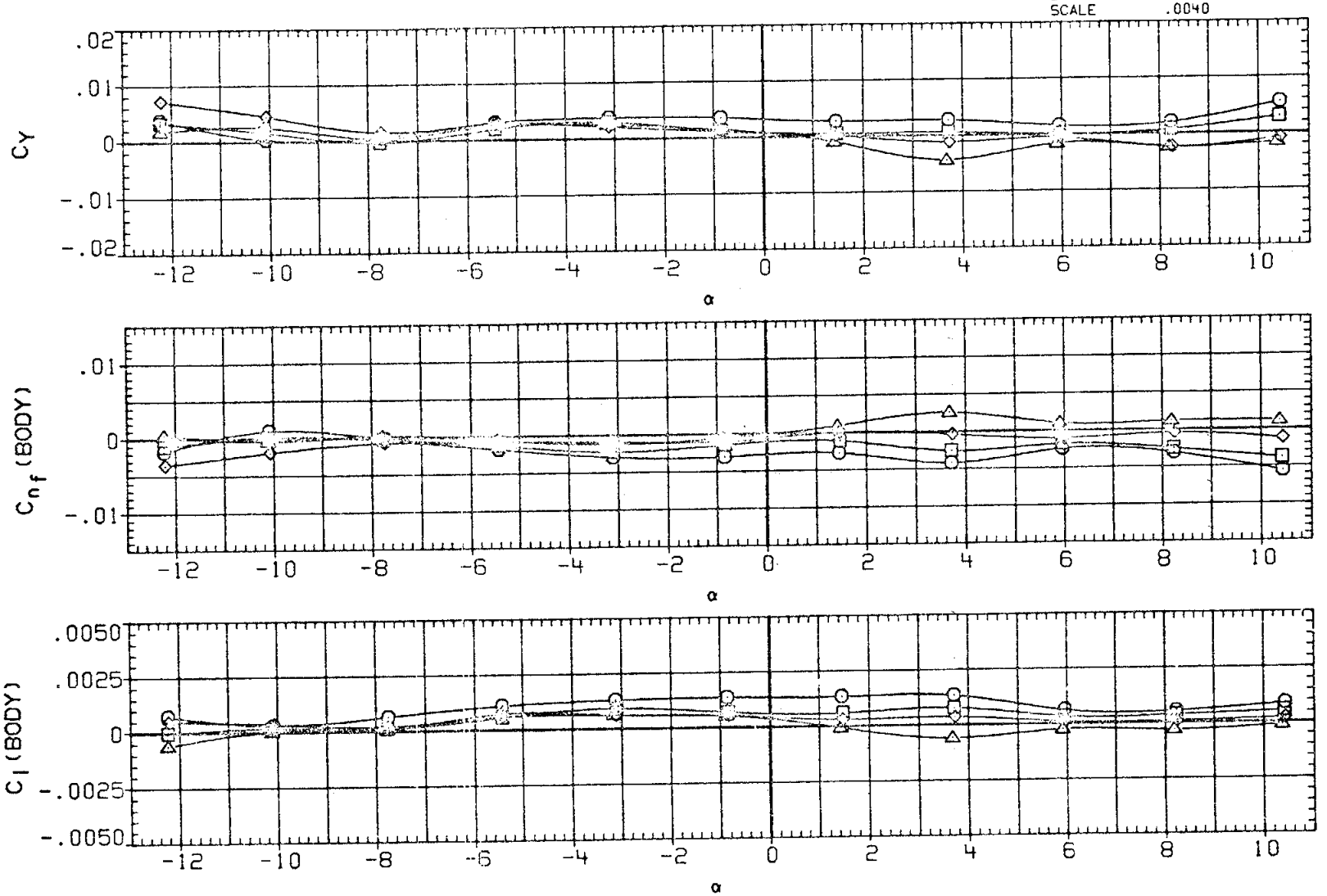


FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

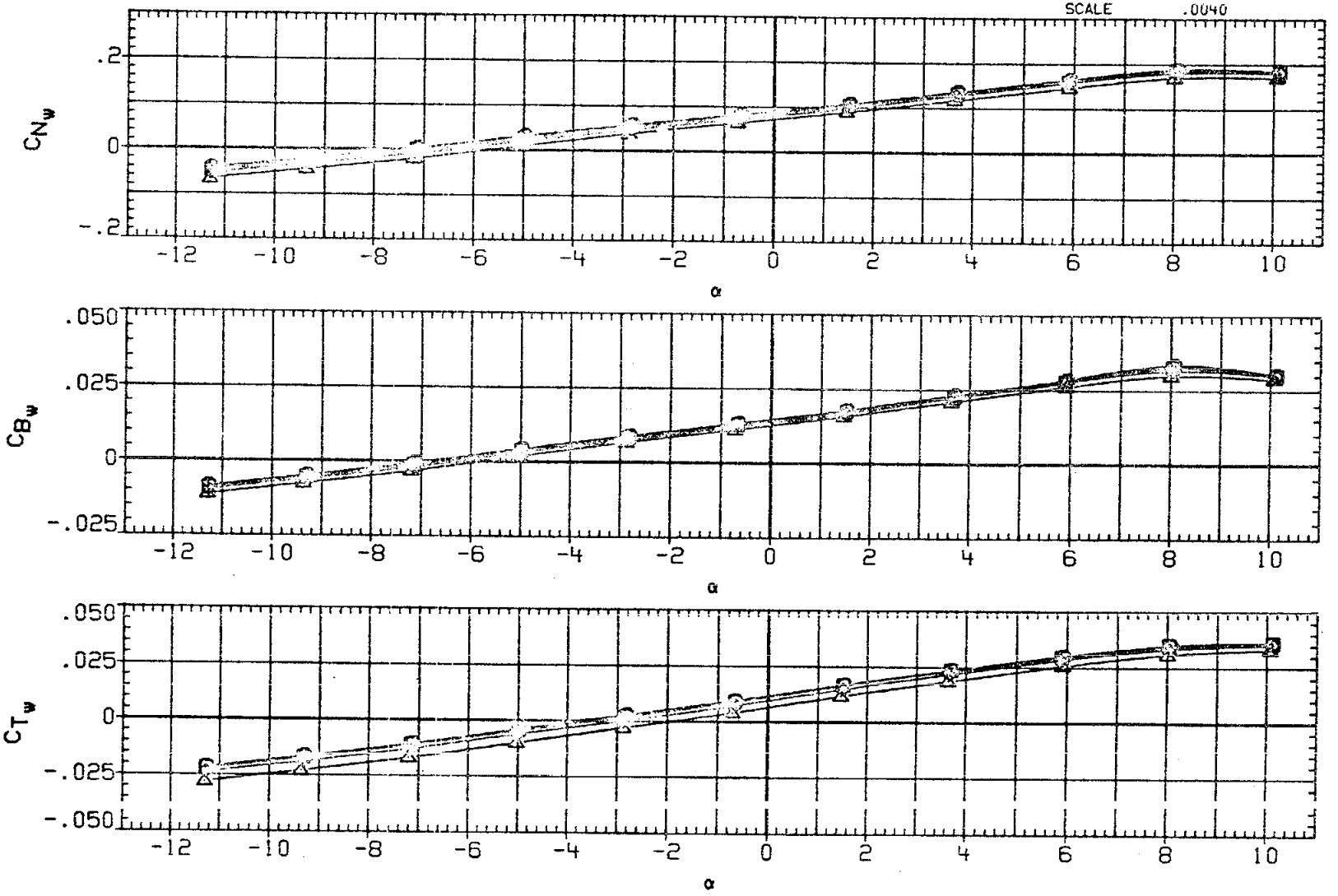


FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
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YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

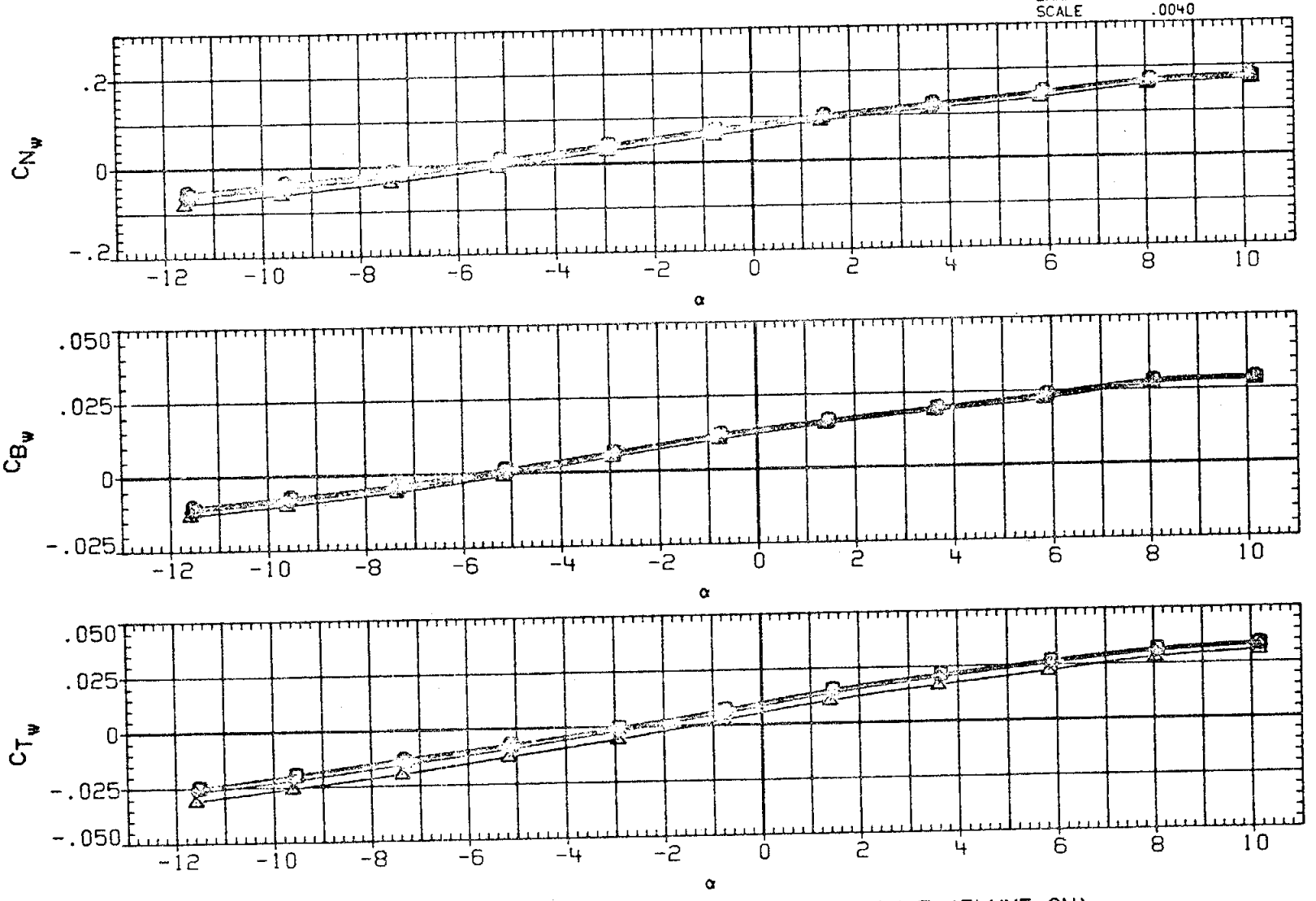

FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

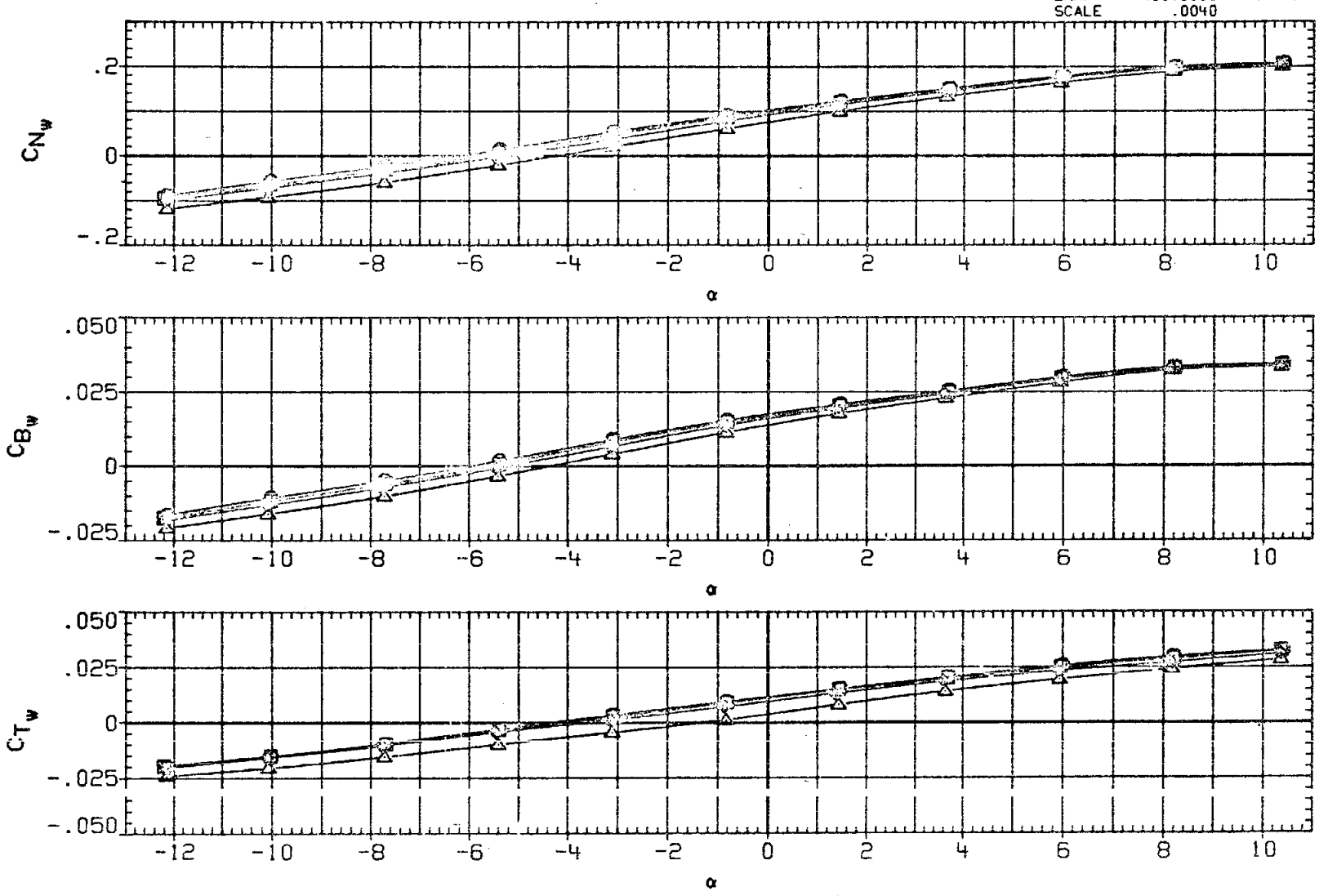

FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

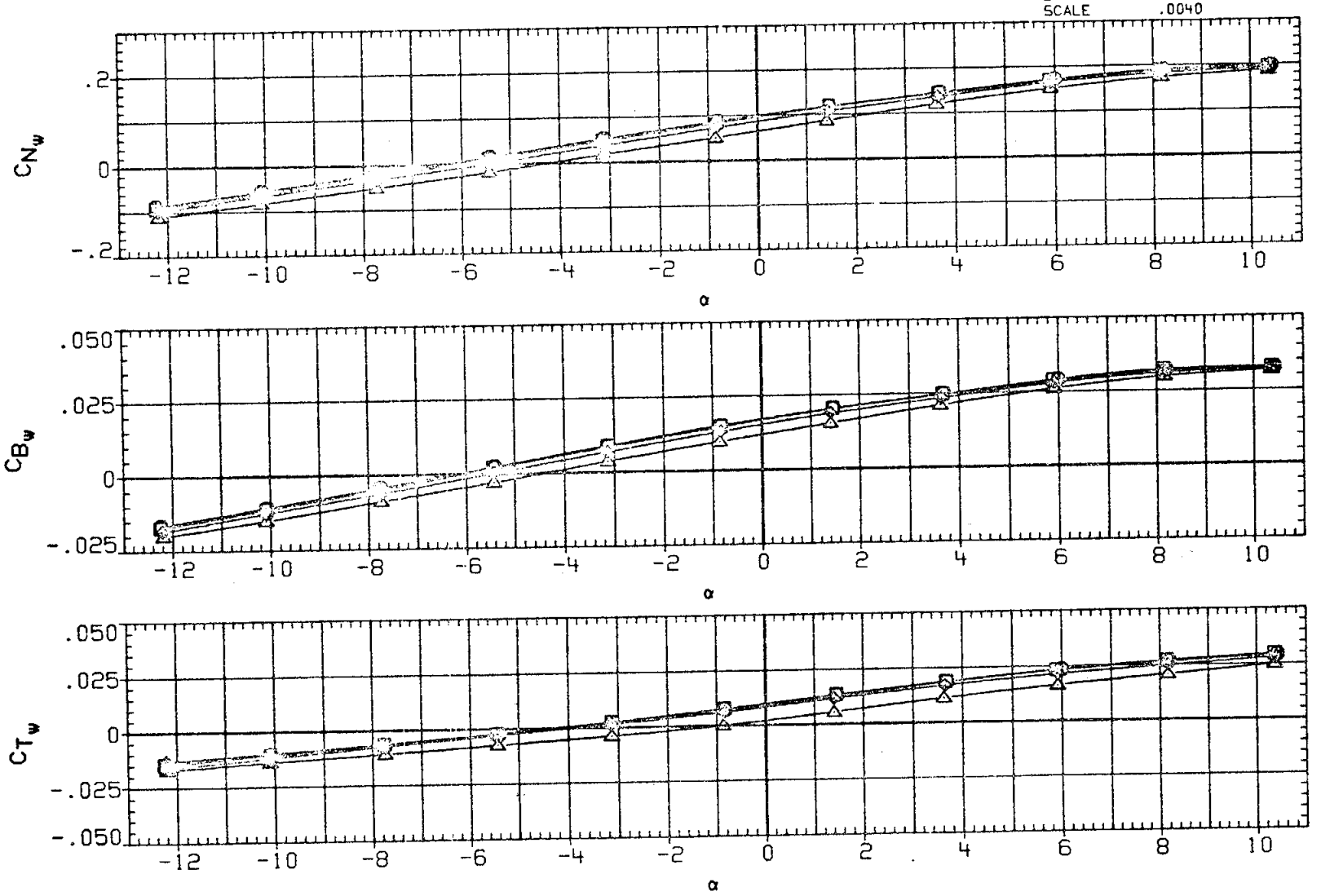

FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

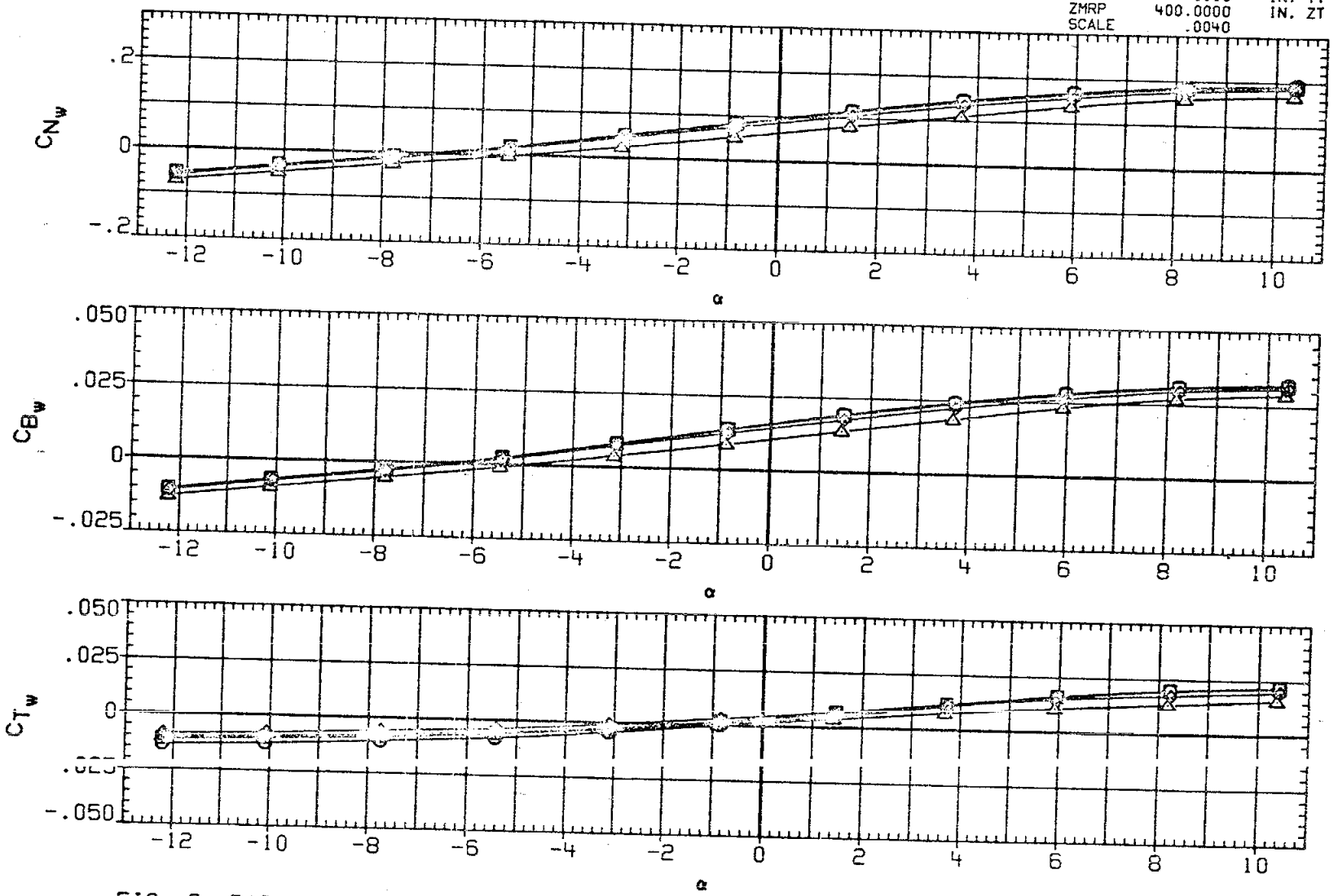

FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

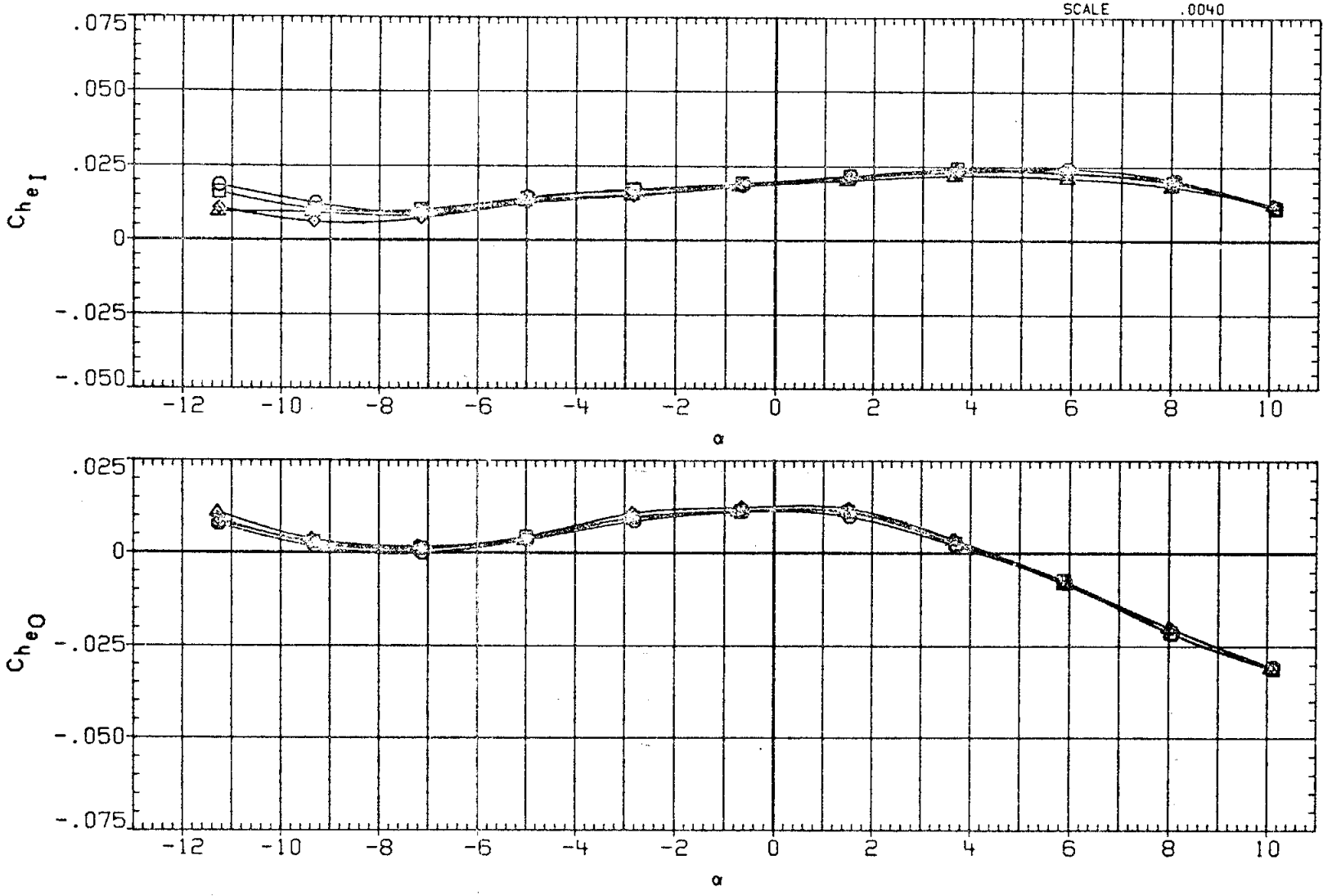

FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

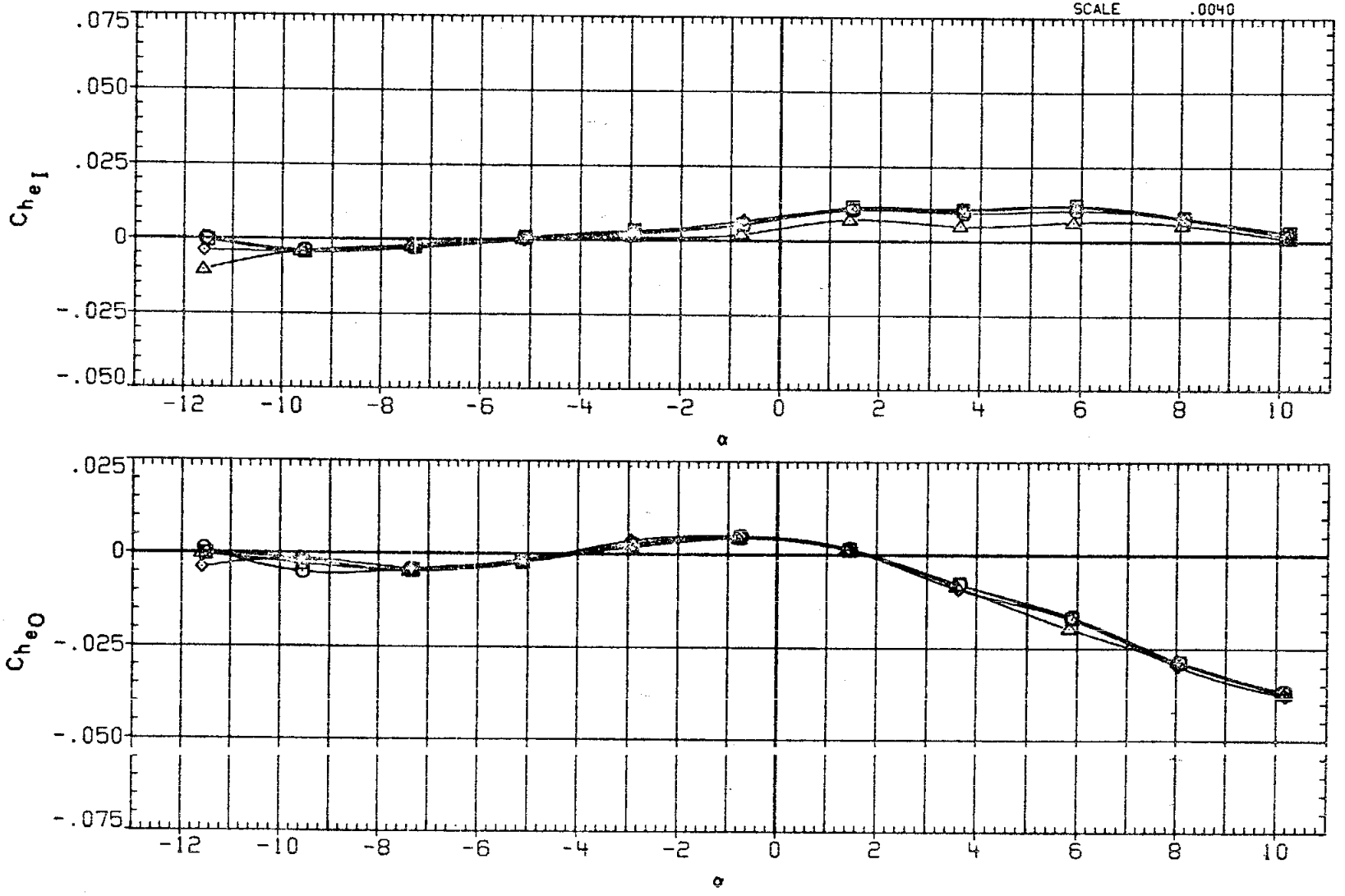

FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1230.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

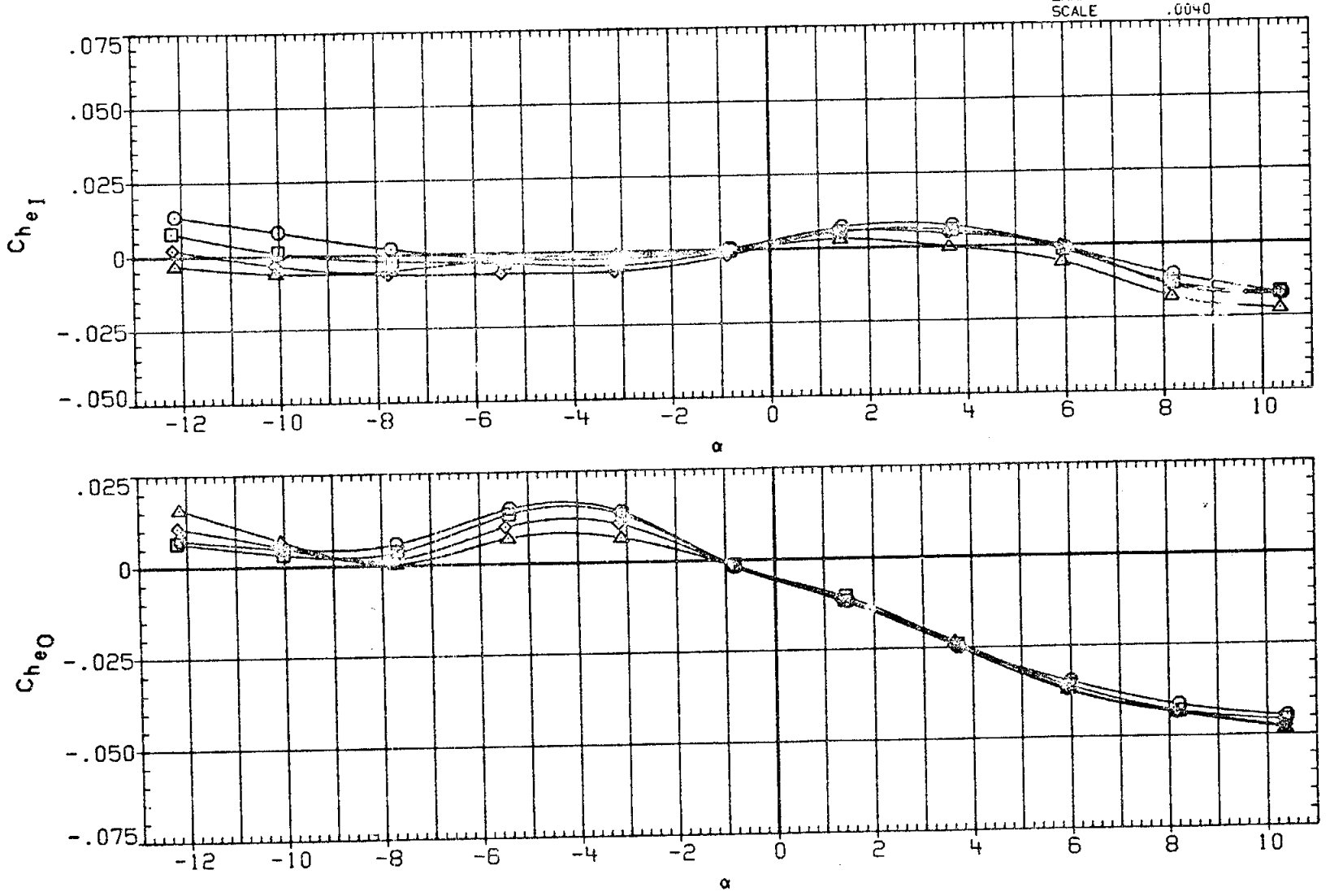

FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

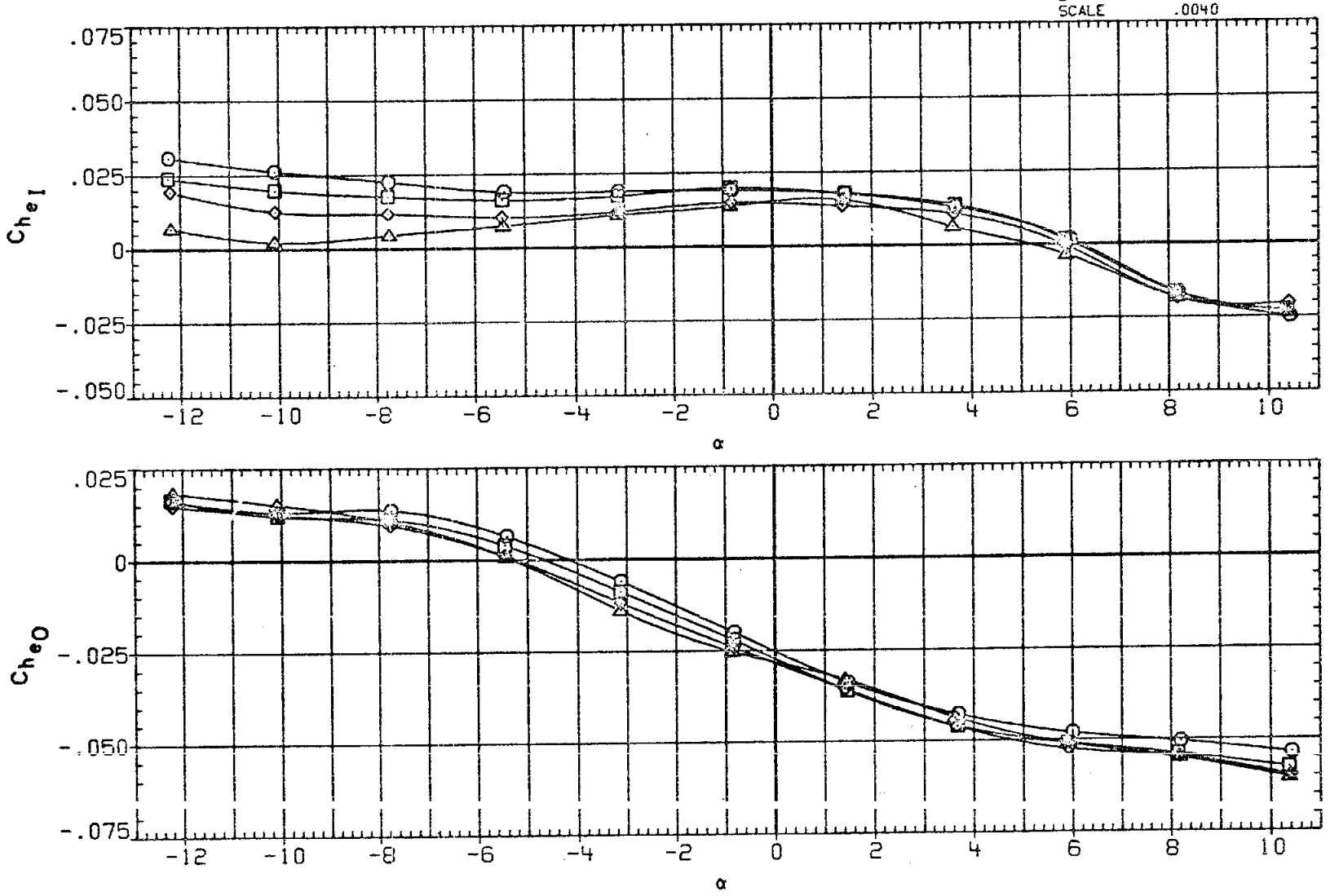

FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
TA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

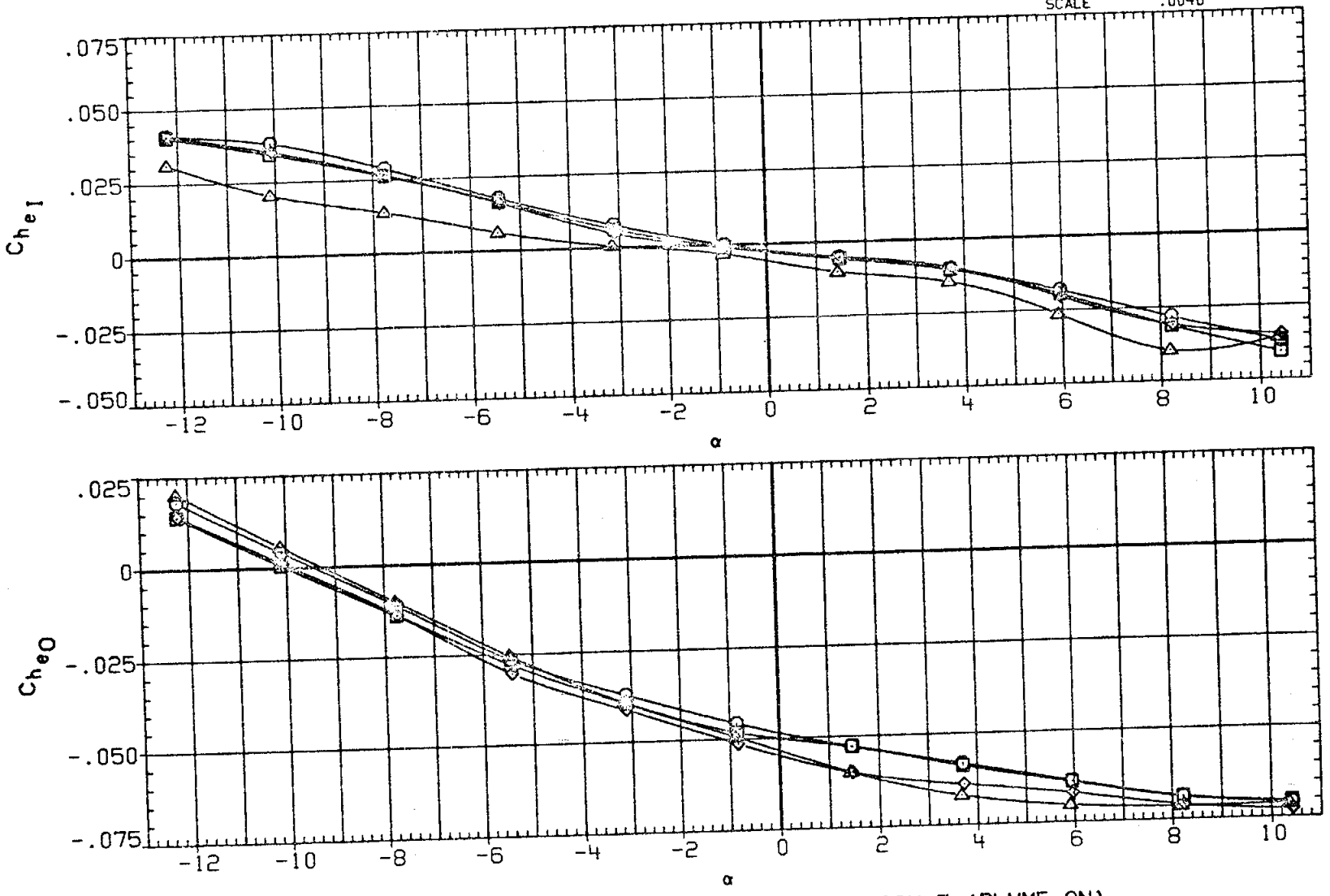

FIG. 8 BASIC DATA - ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

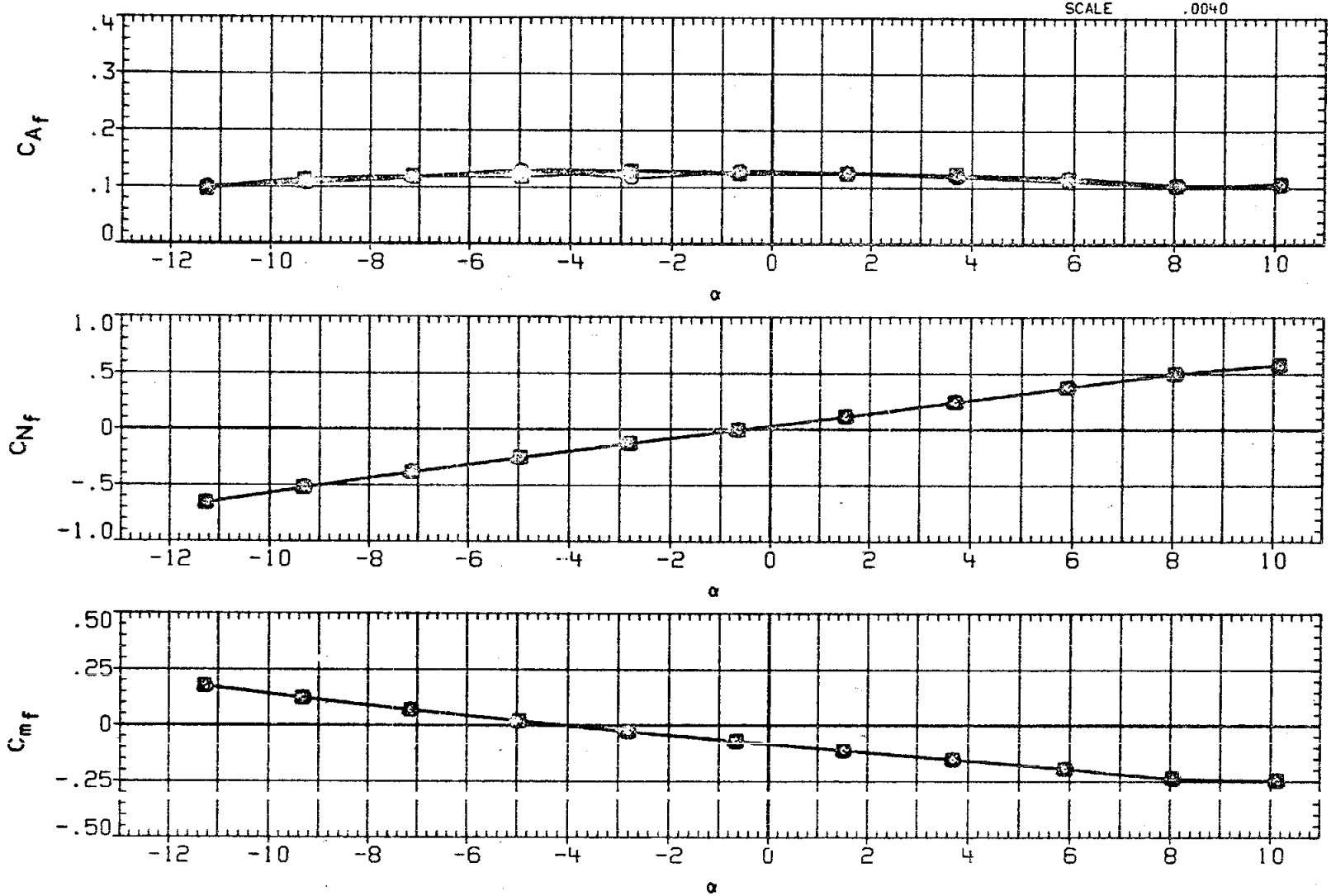

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

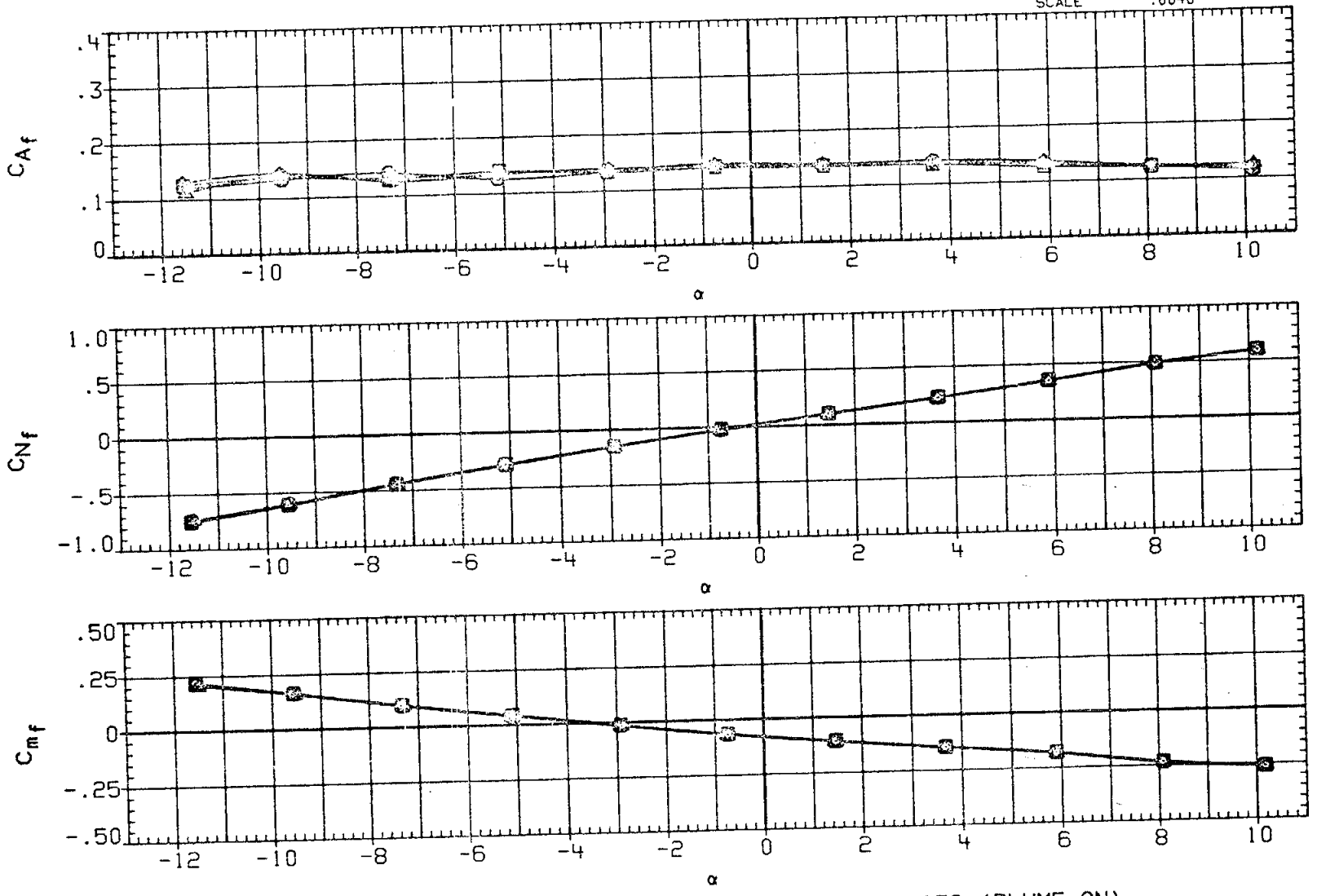

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

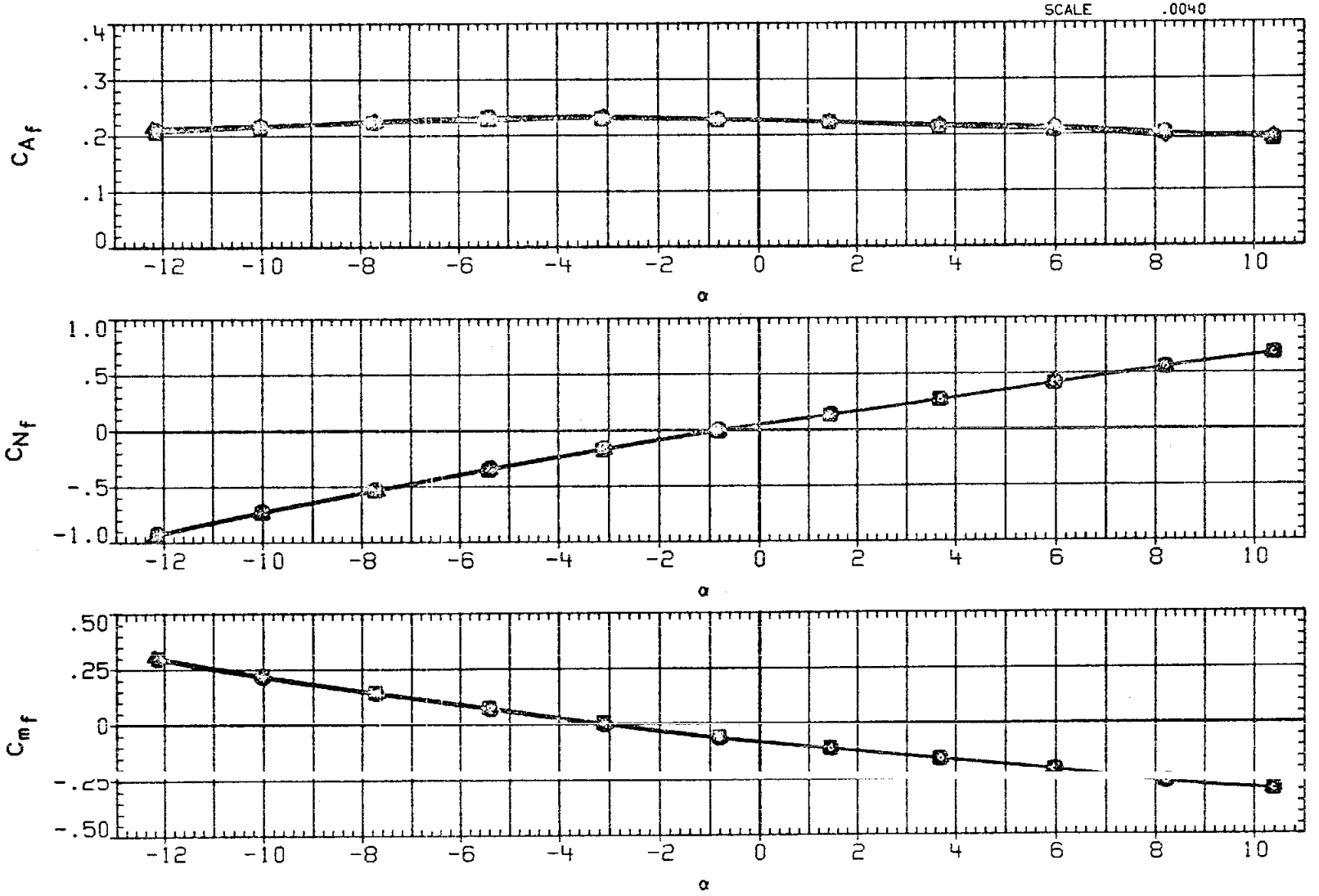

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

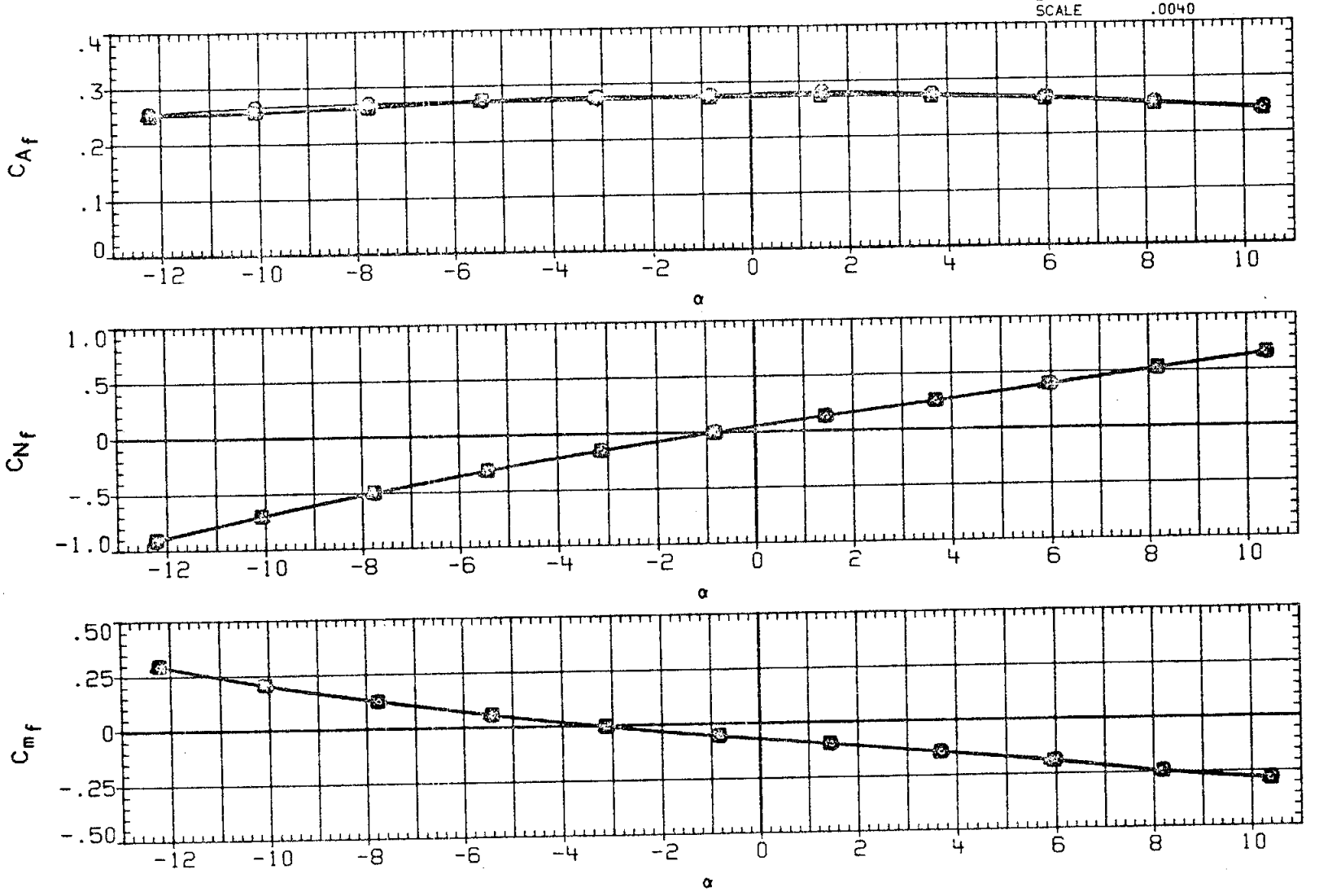

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

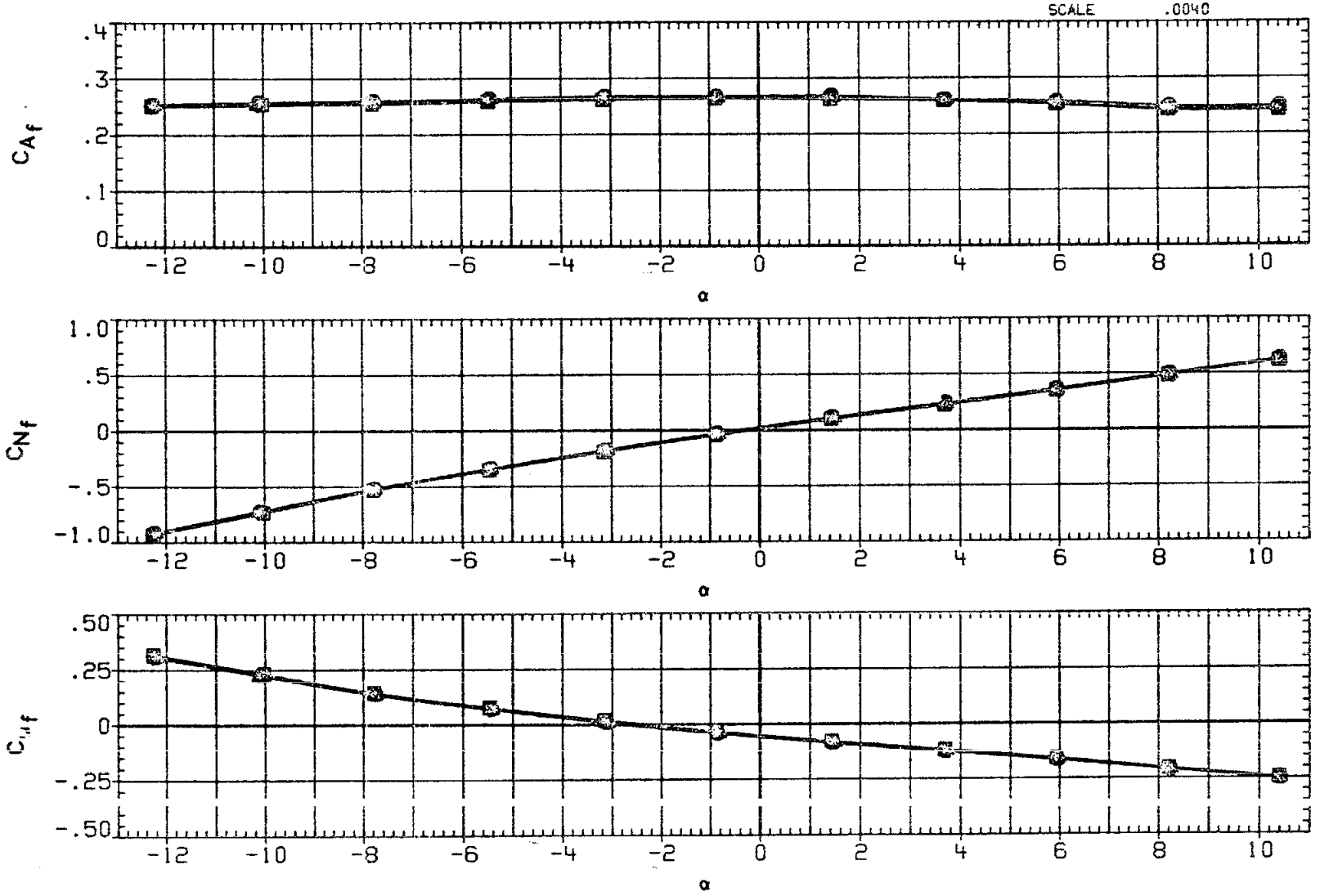

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

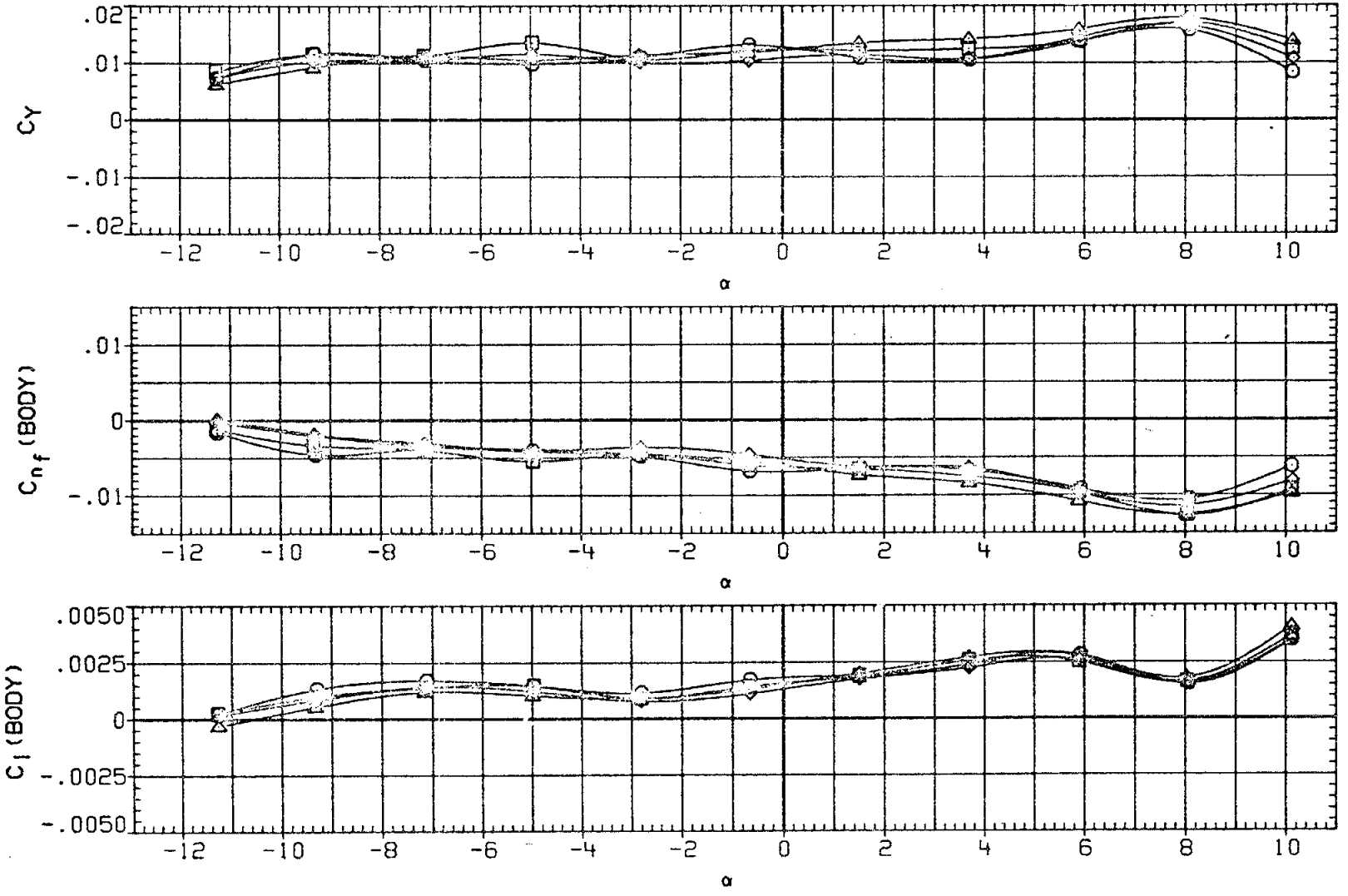

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

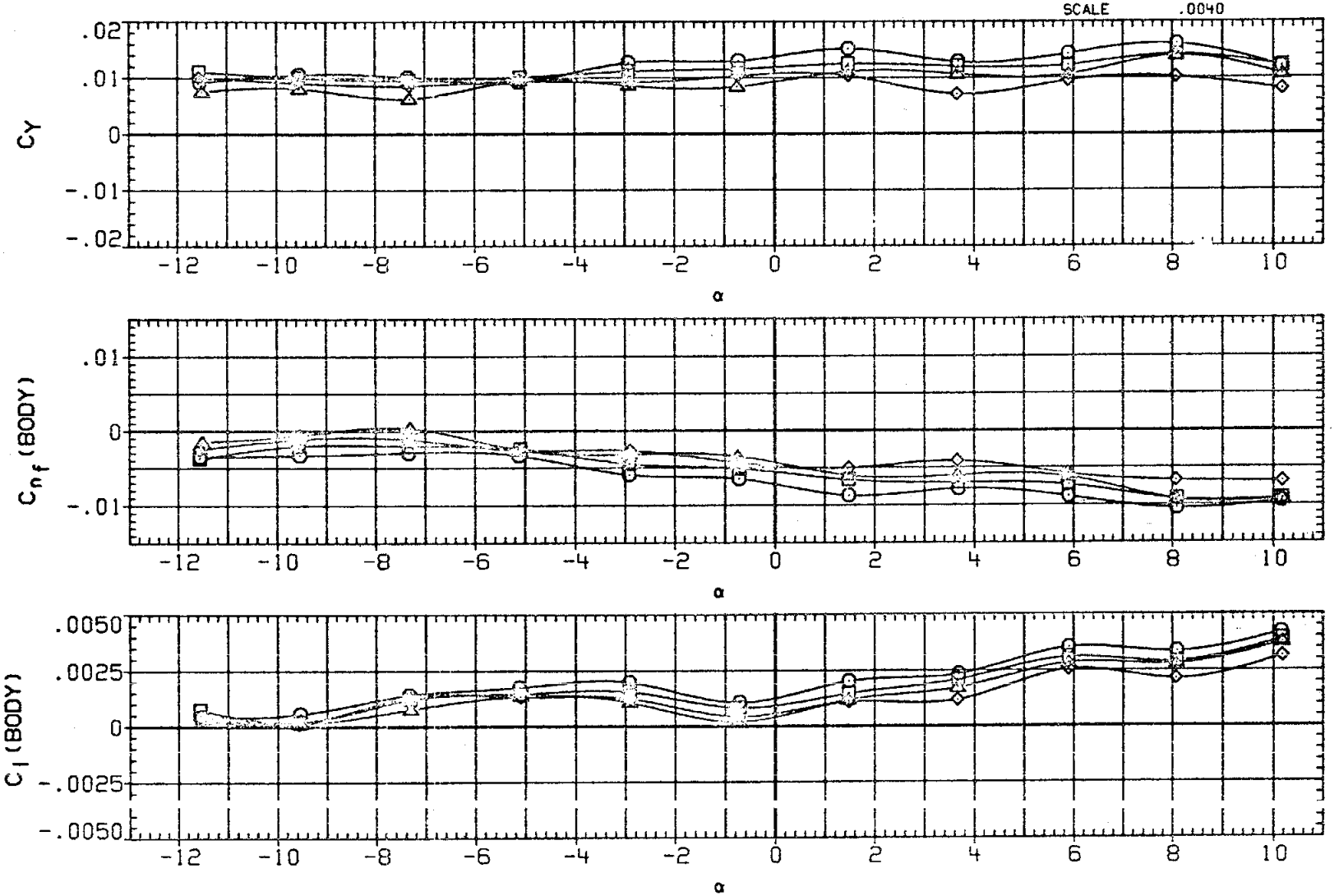

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

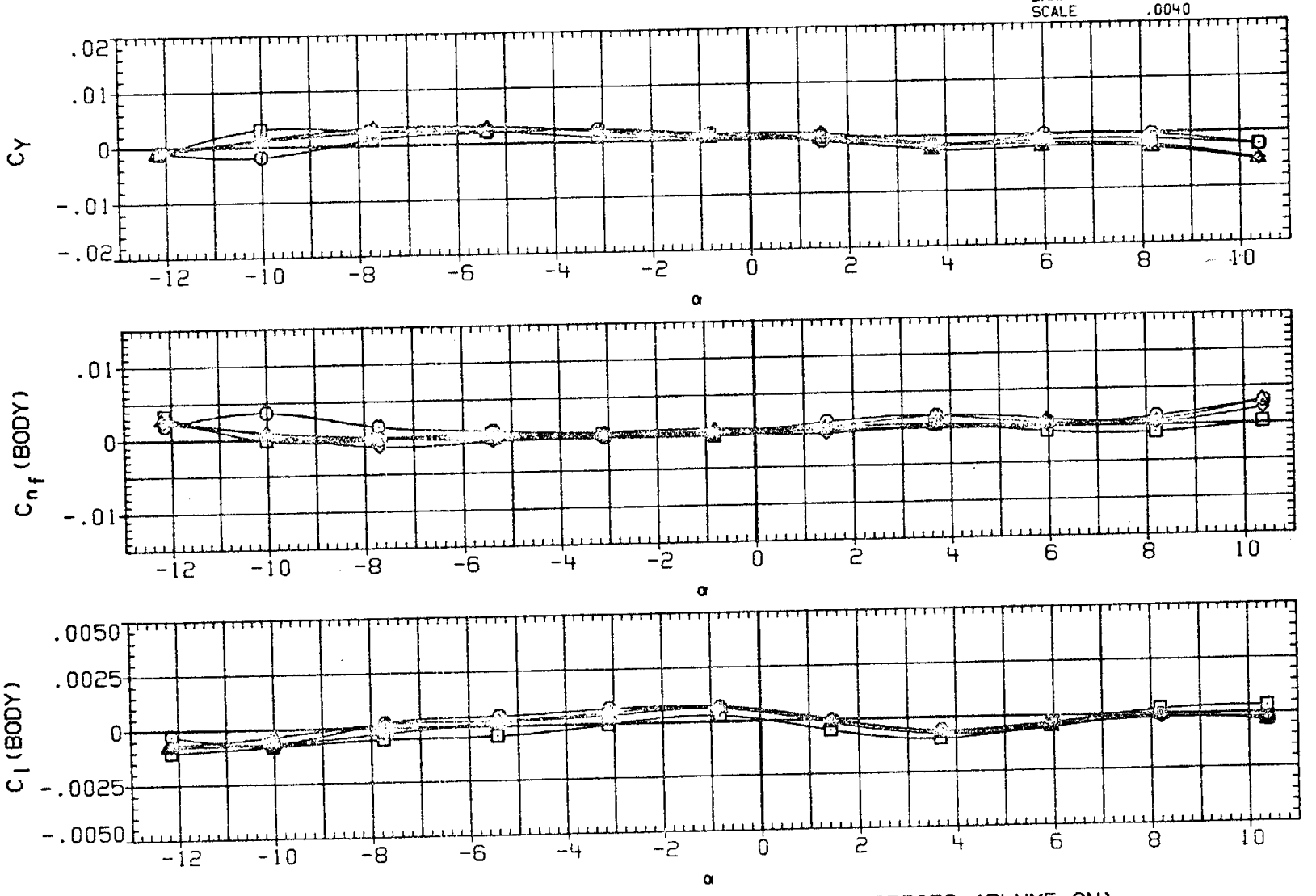

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

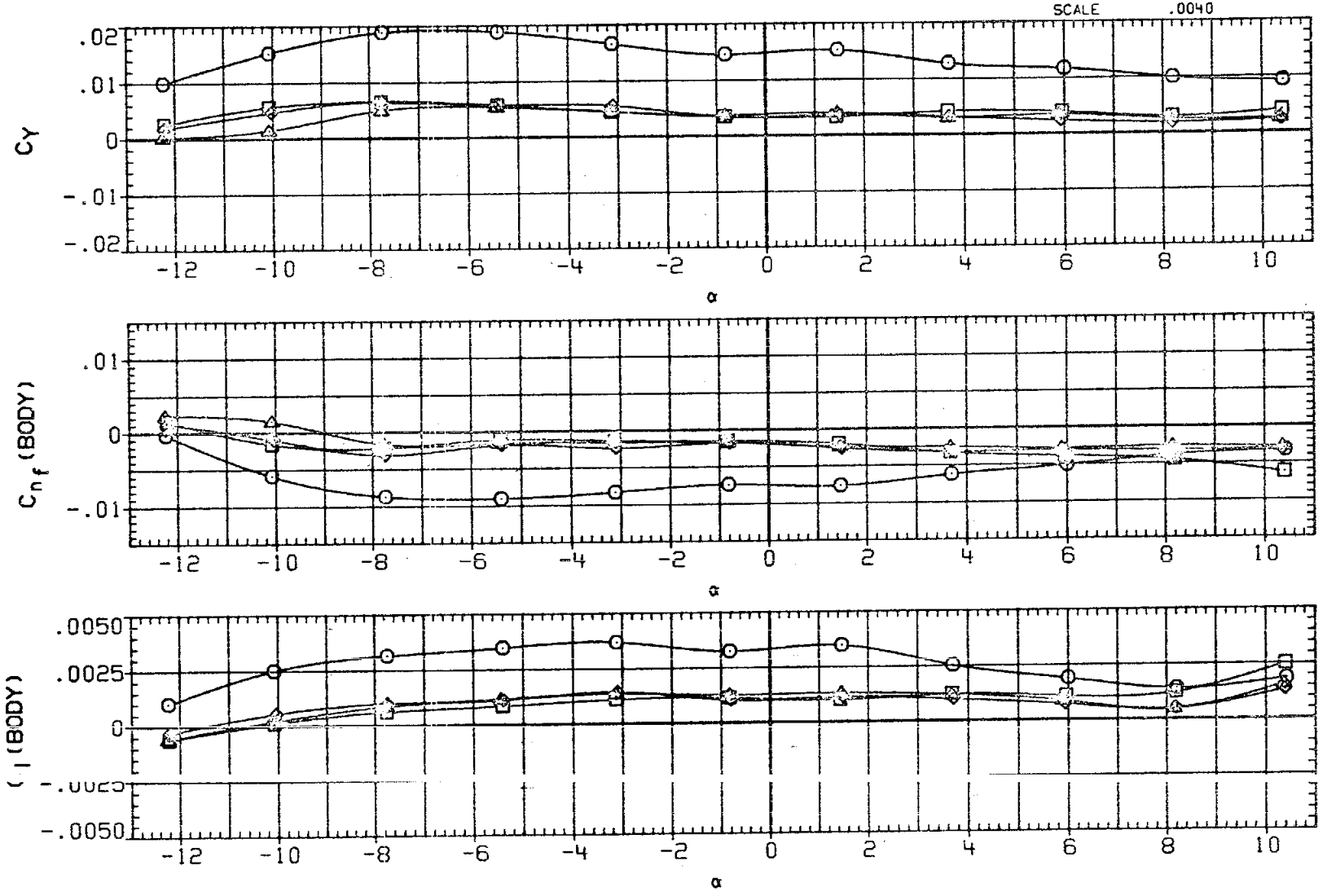

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

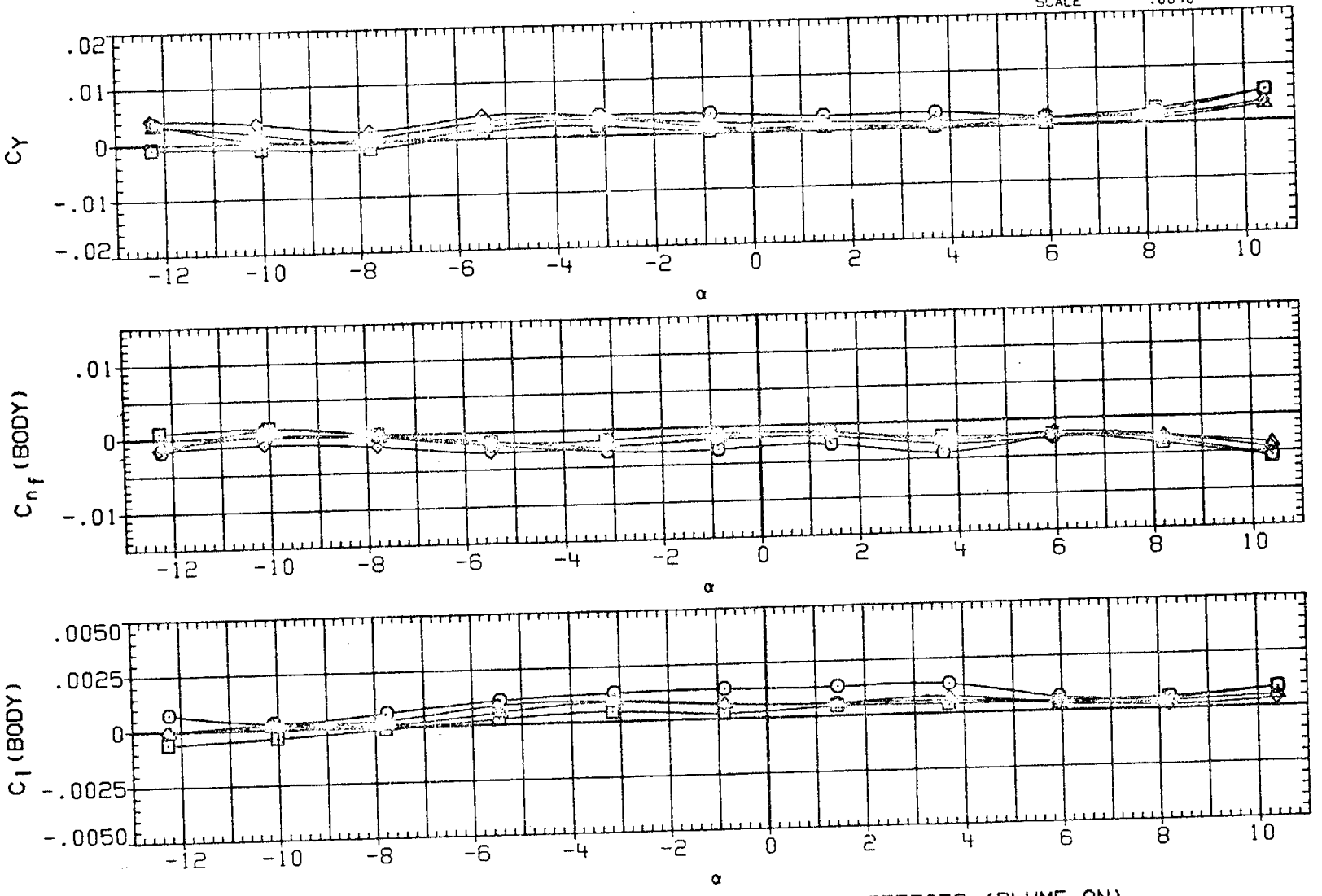

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

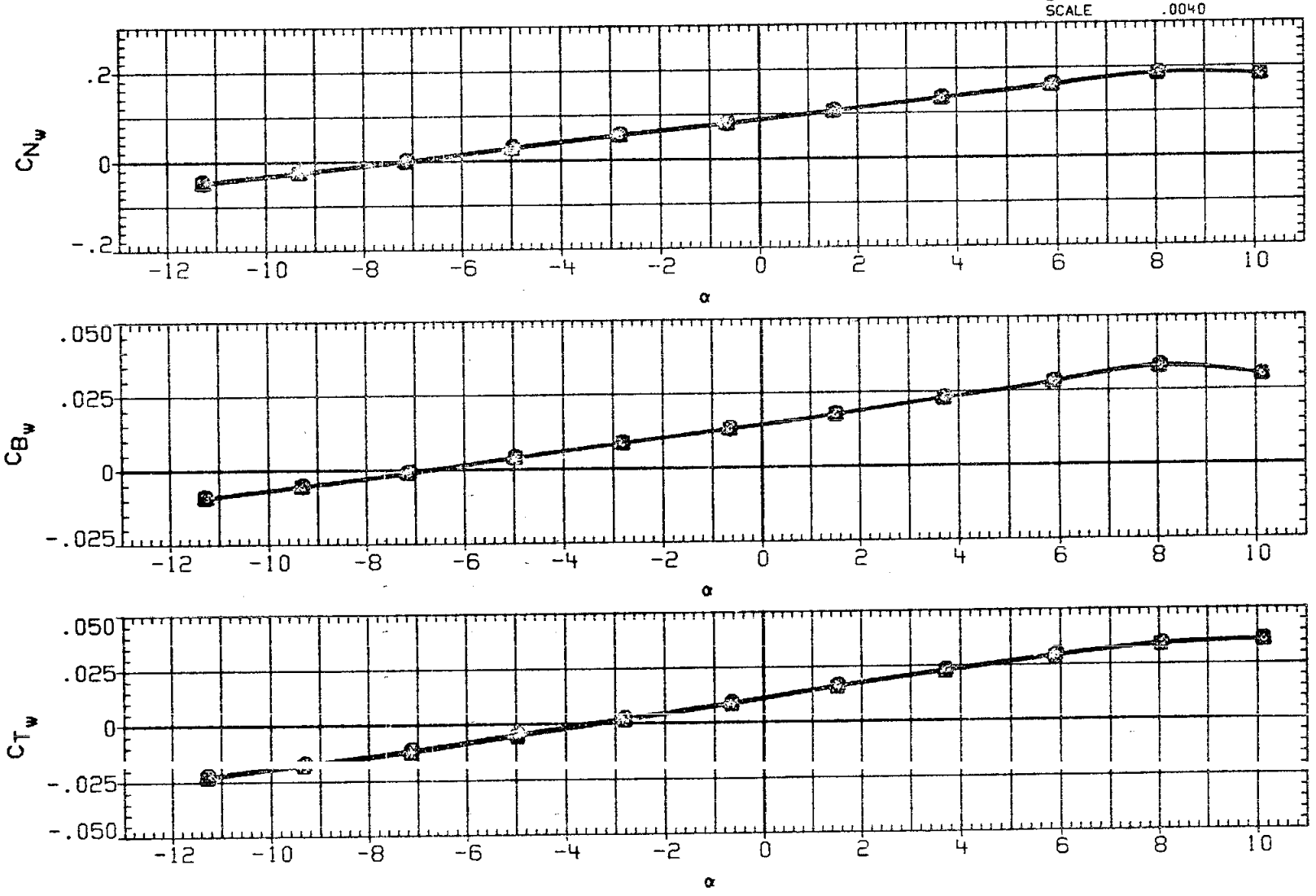

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

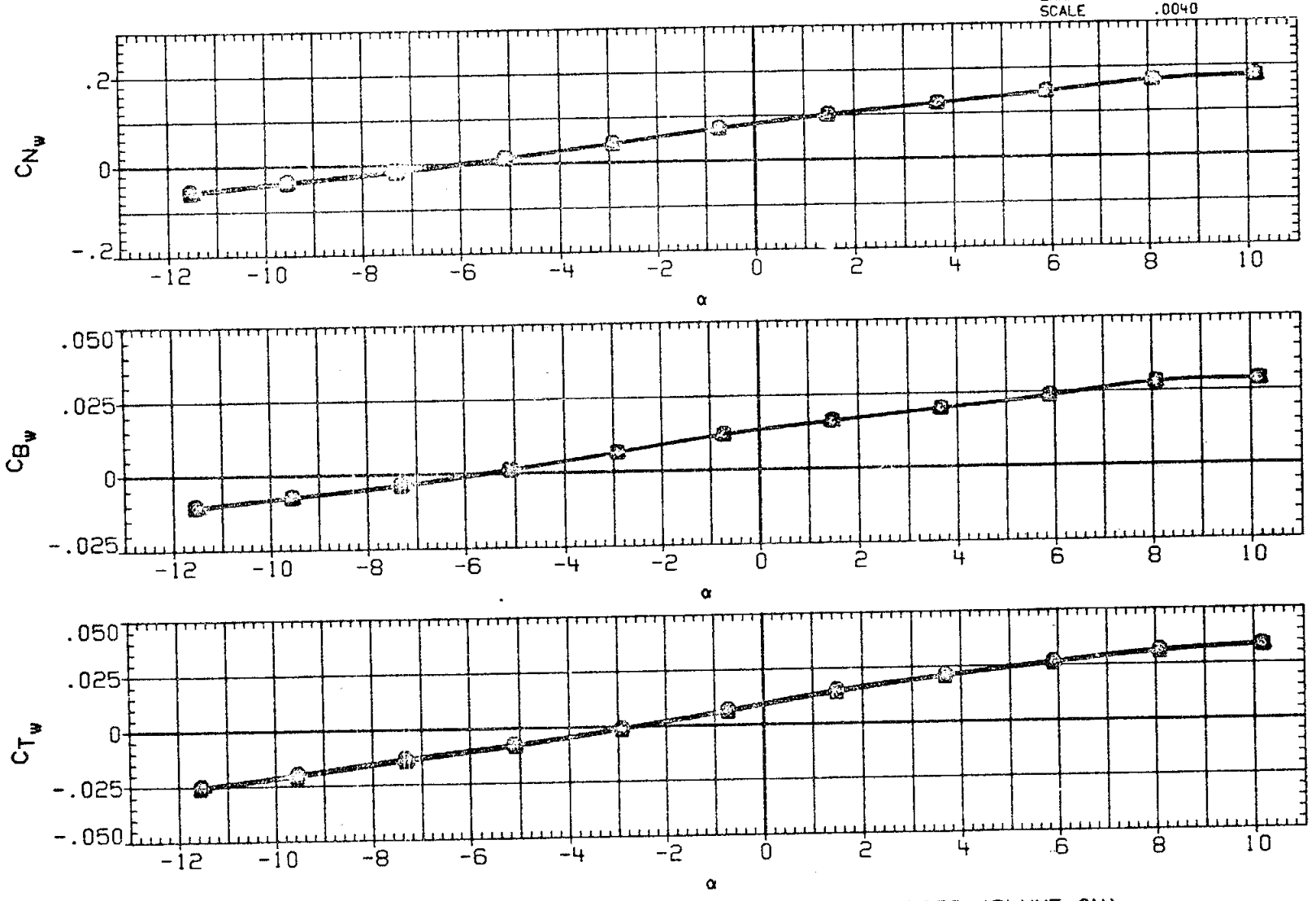

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692.0TS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6013	◇	MSFC TWT 692.0TS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6014	△	MSFC TWT 692.0TS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

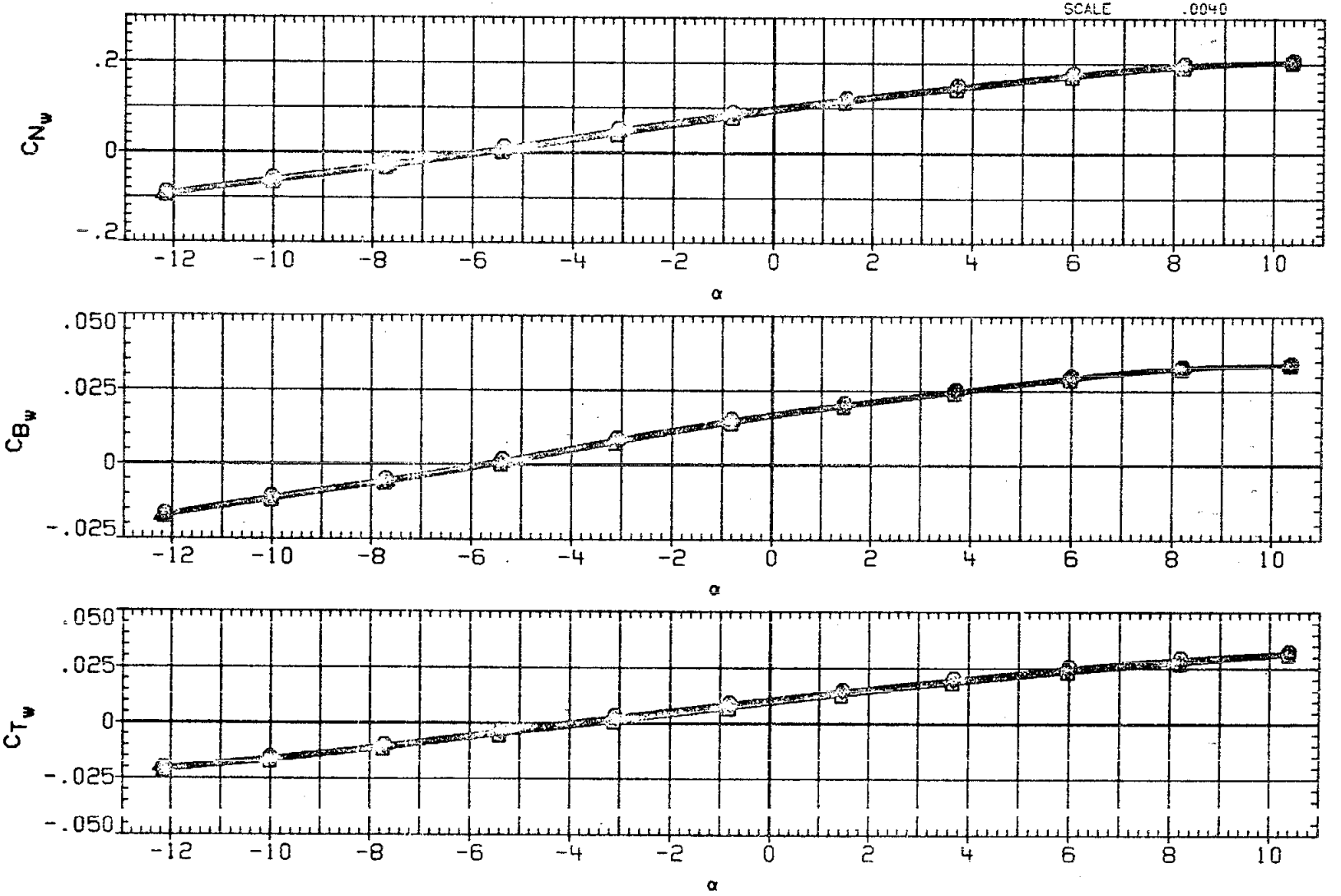

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA5011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

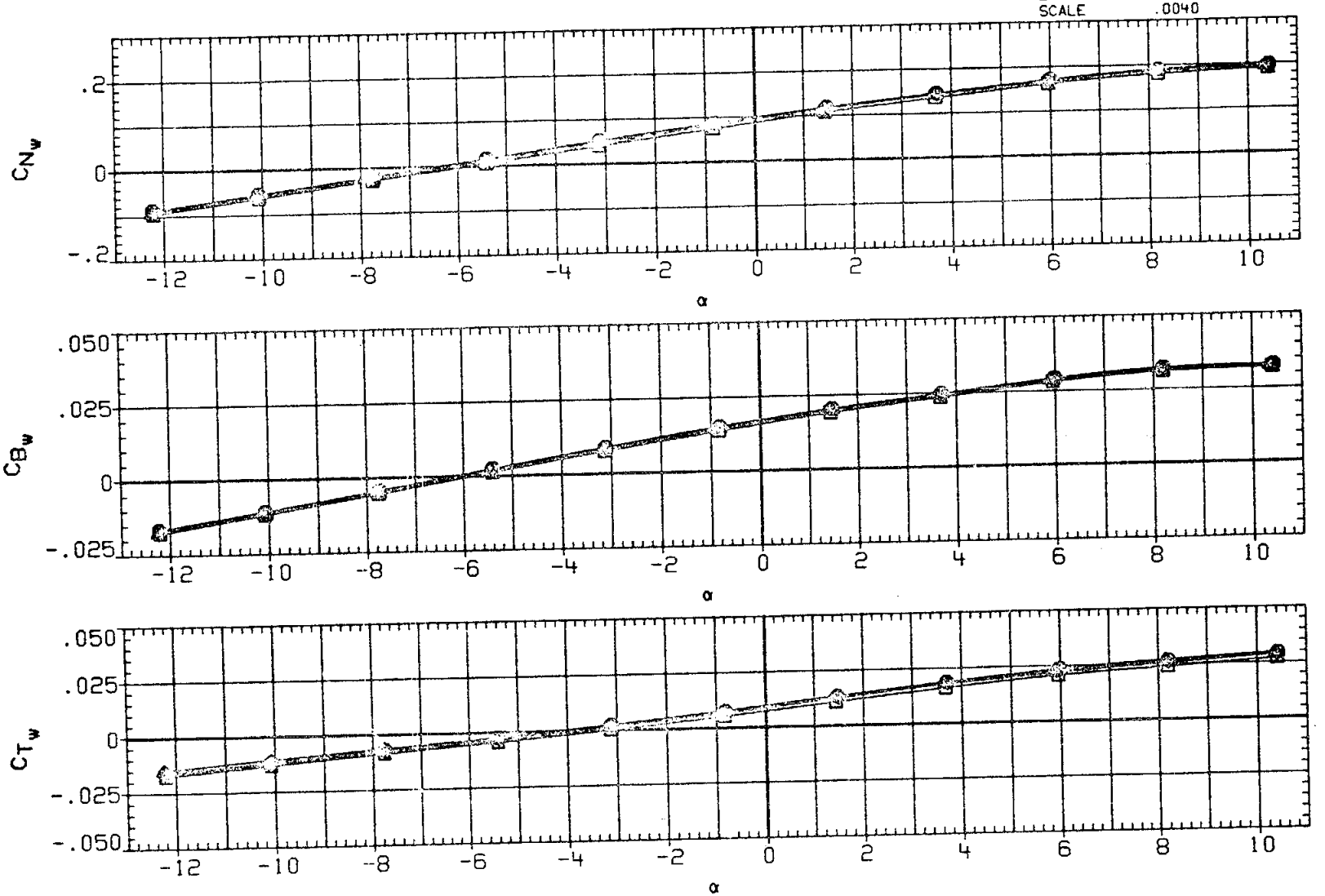

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692. 0 T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692.0TS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6013	◇	MSFC TWT 692.0TS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6014	△	MSFC TWT 692.0TS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

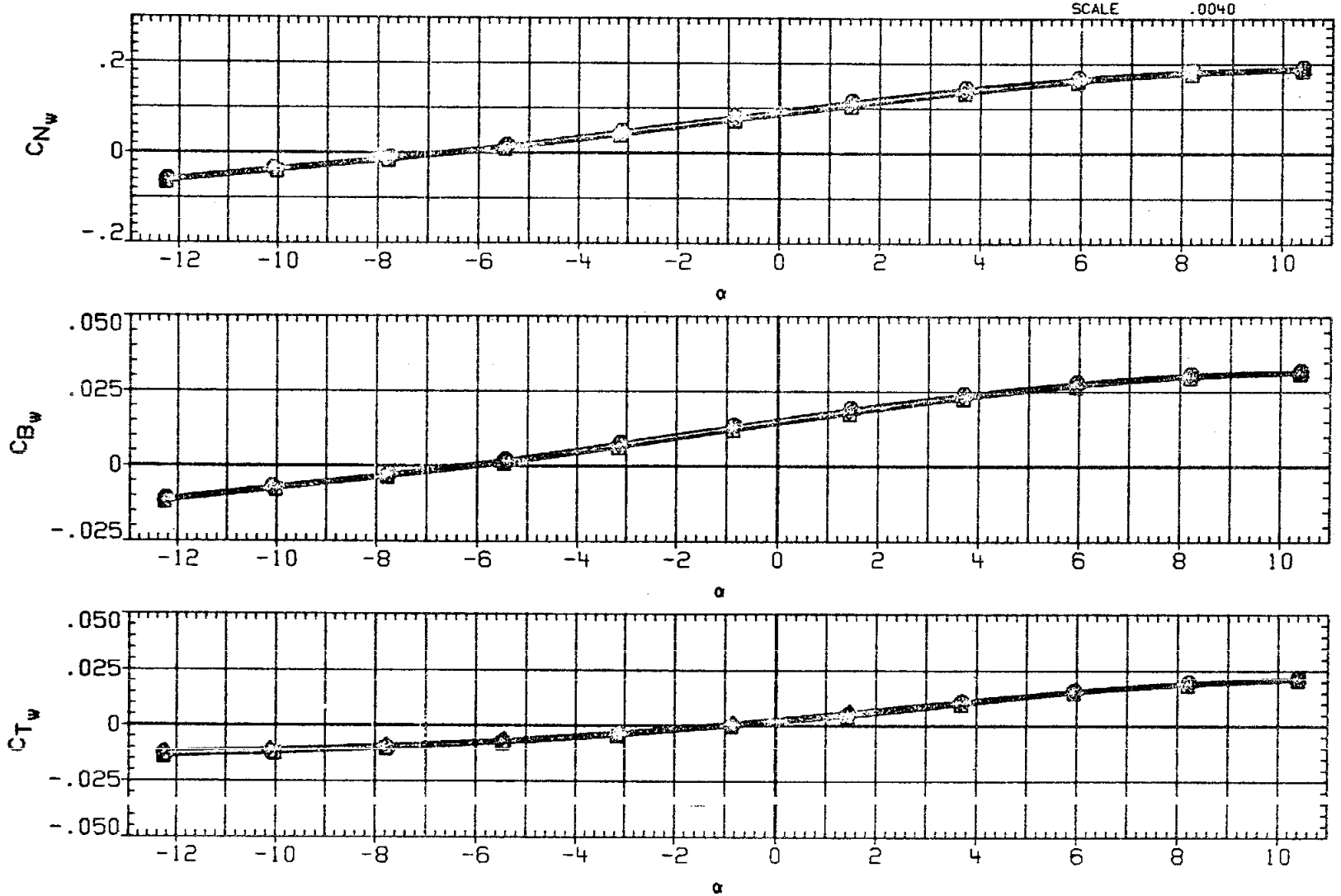

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

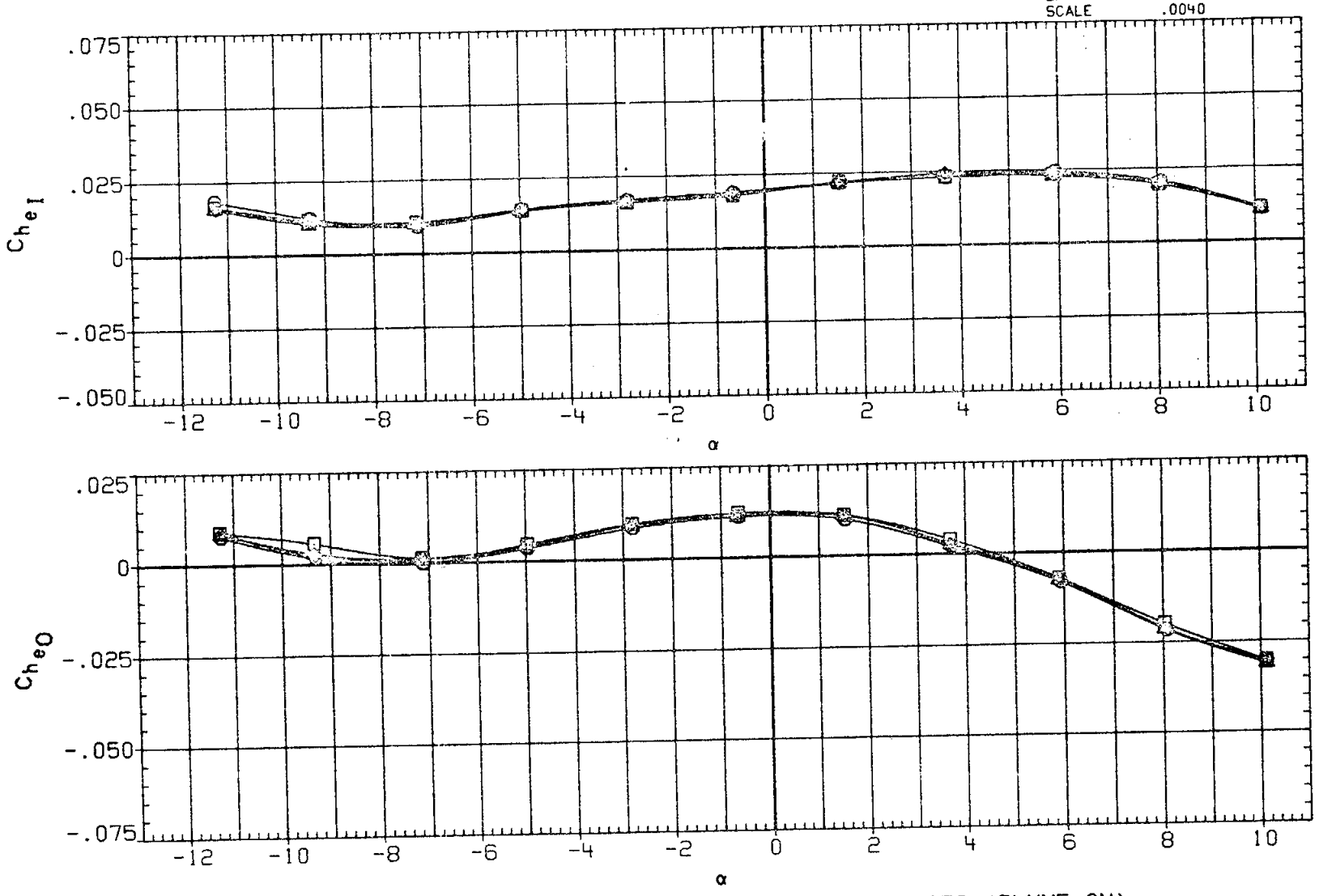

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

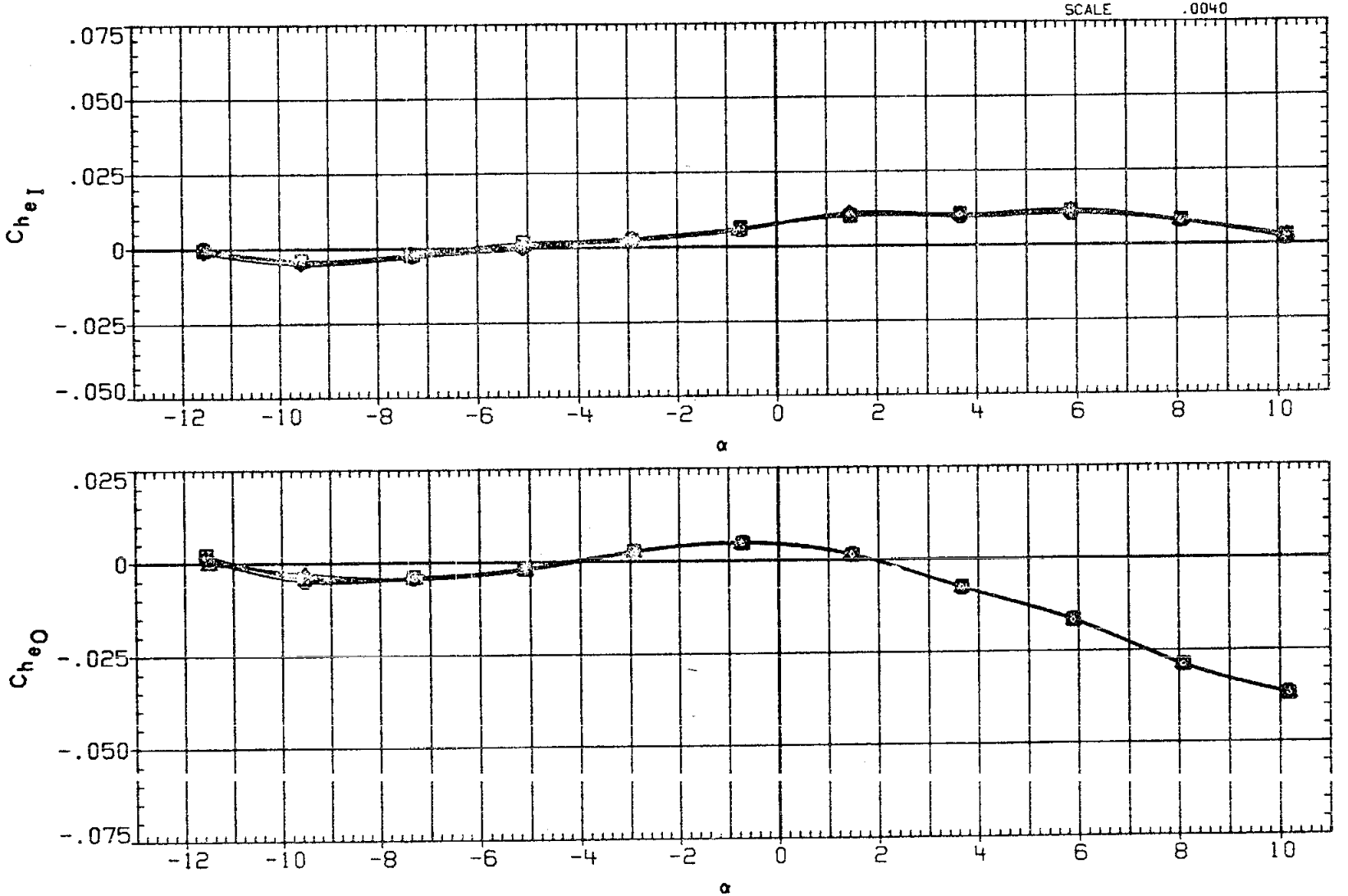

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6014	△	MSFC TWT 692,OTS + 10 DEG RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

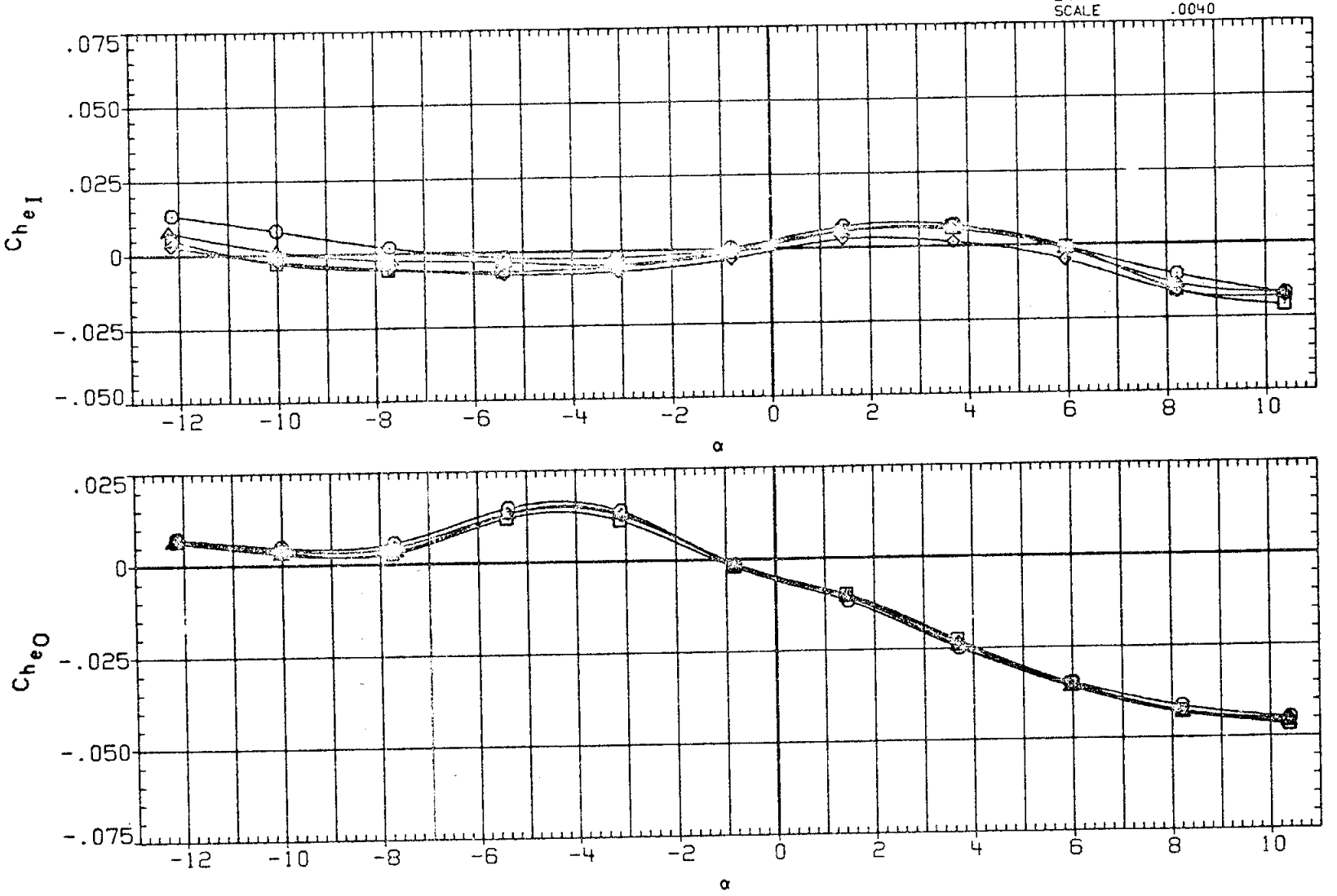

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

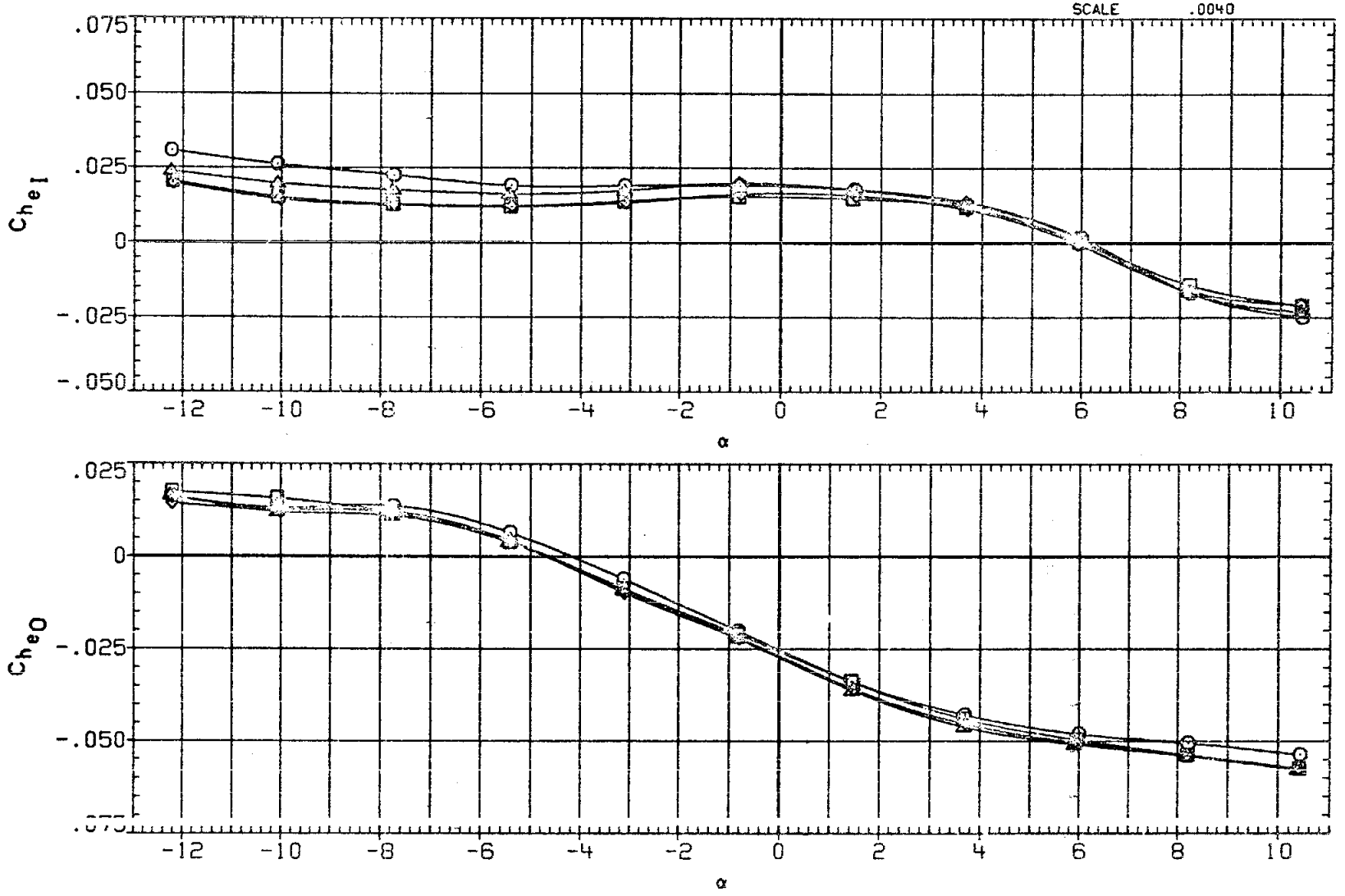

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

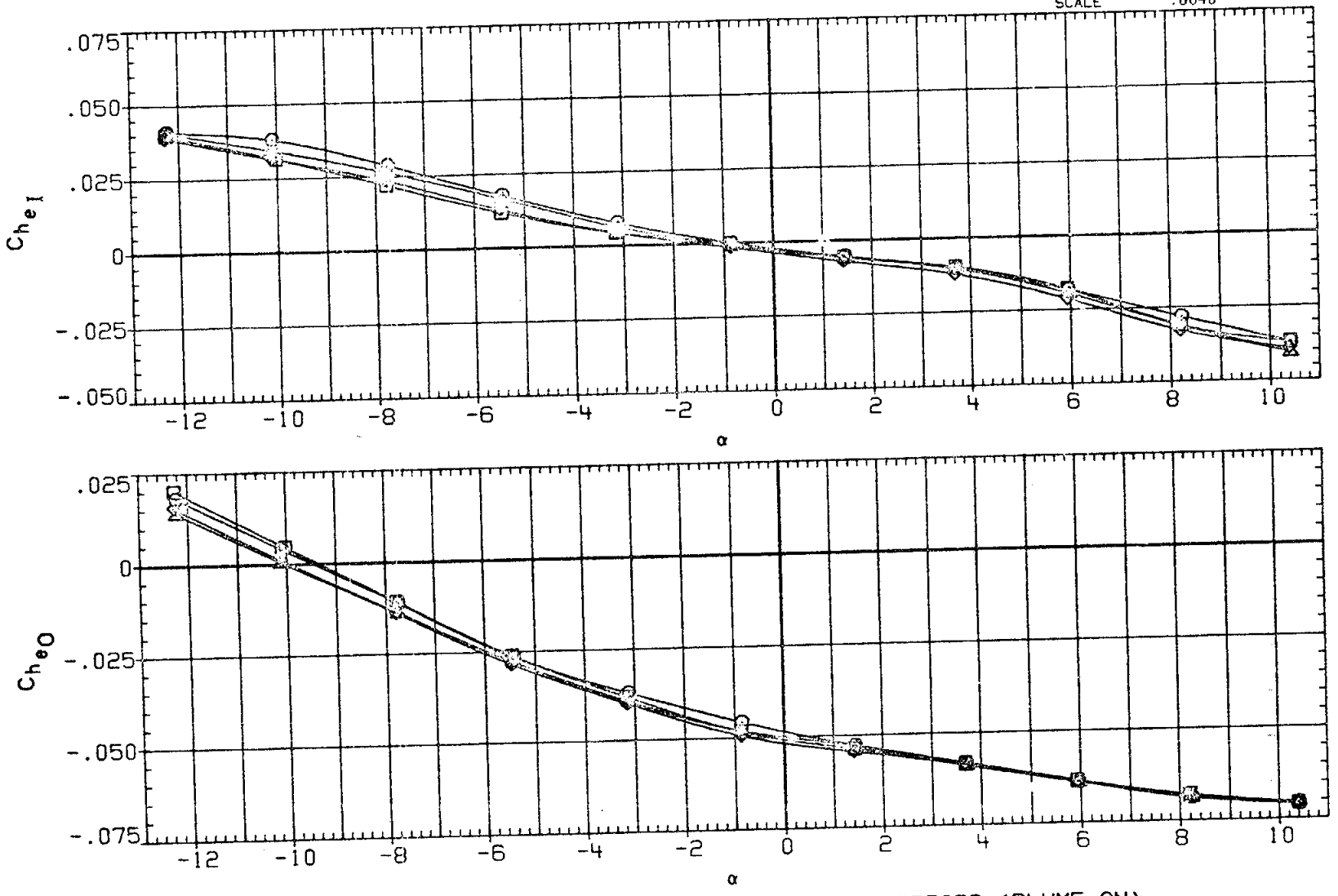

FIG. 9 BASIC DATA - 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

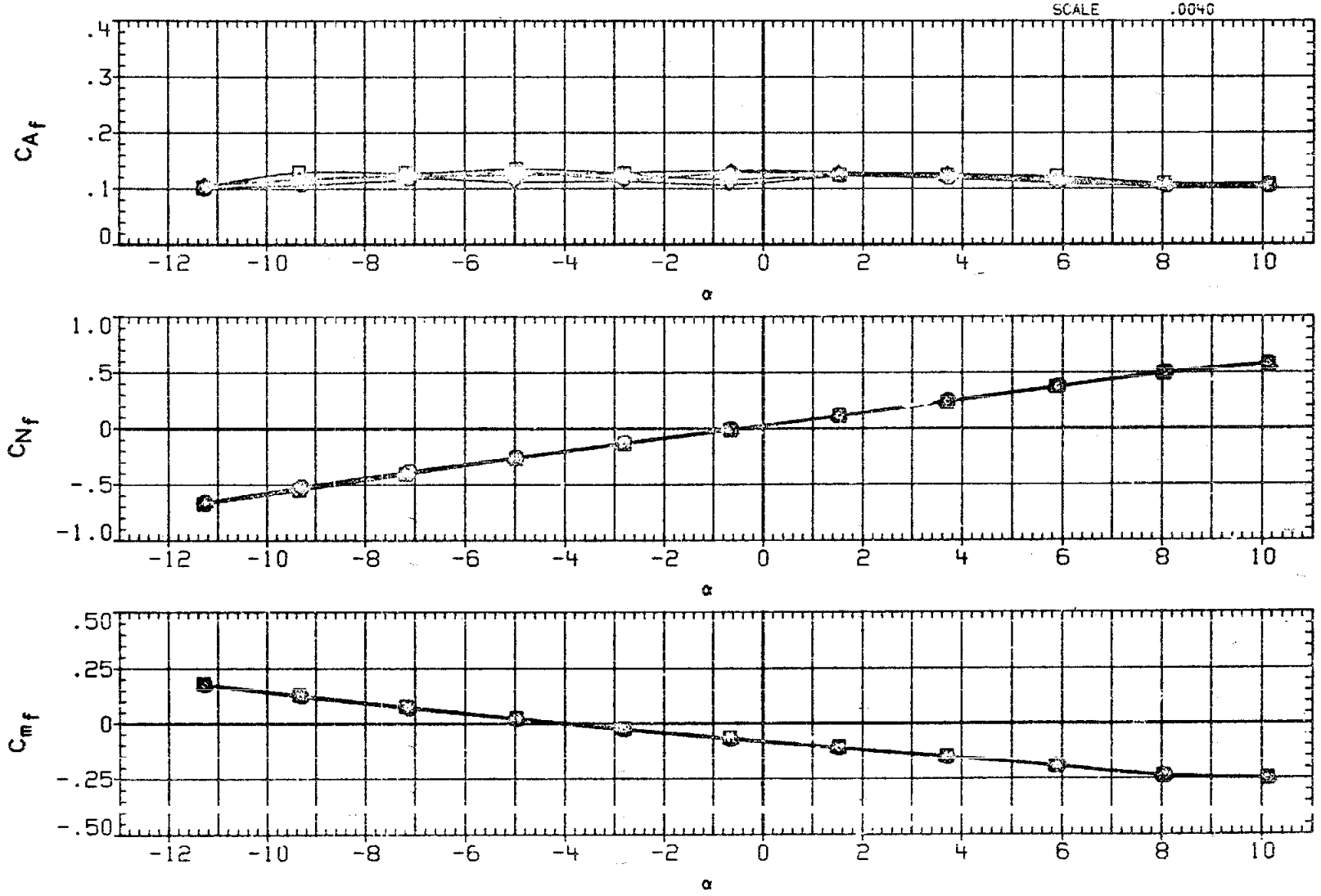

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

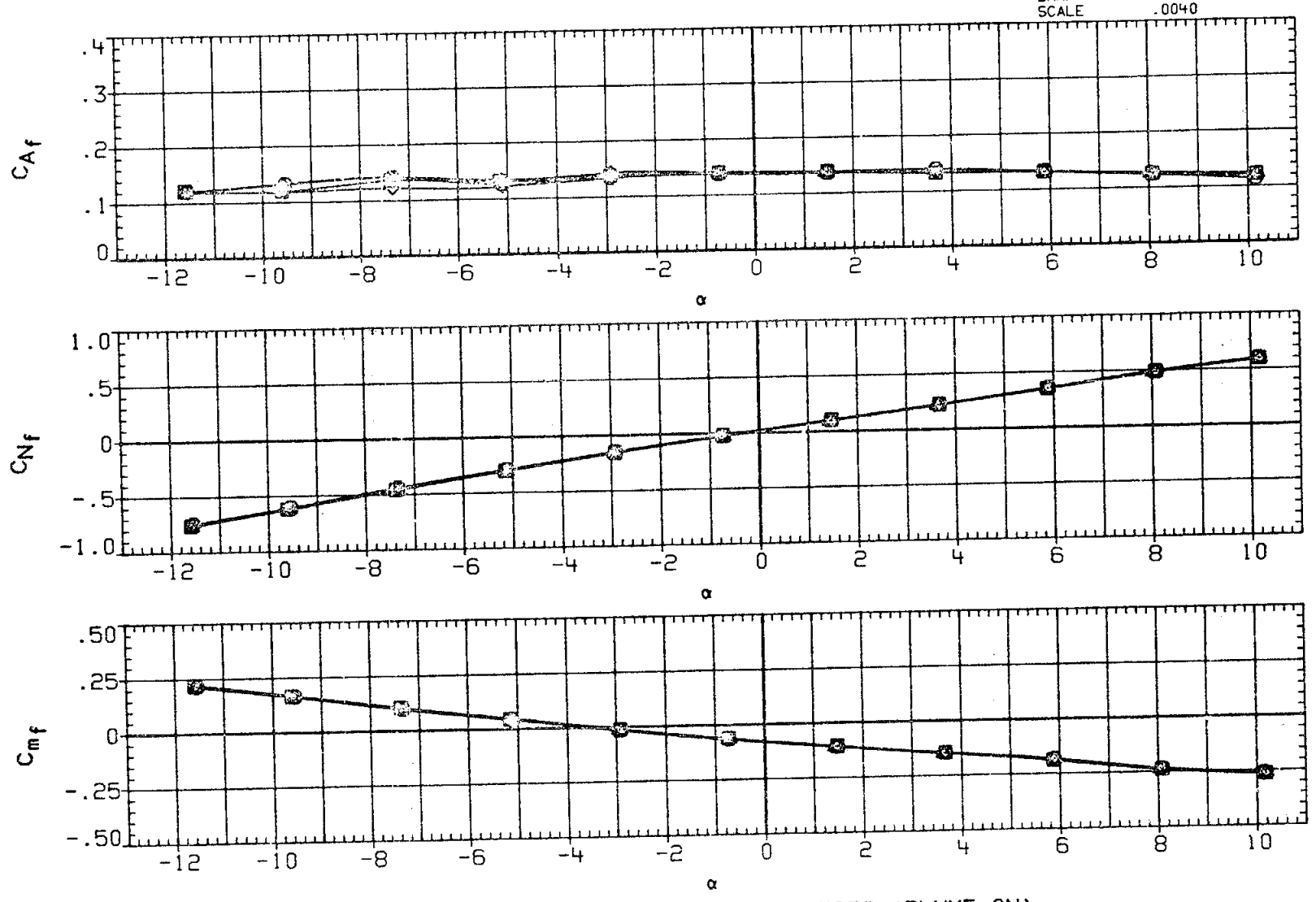

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

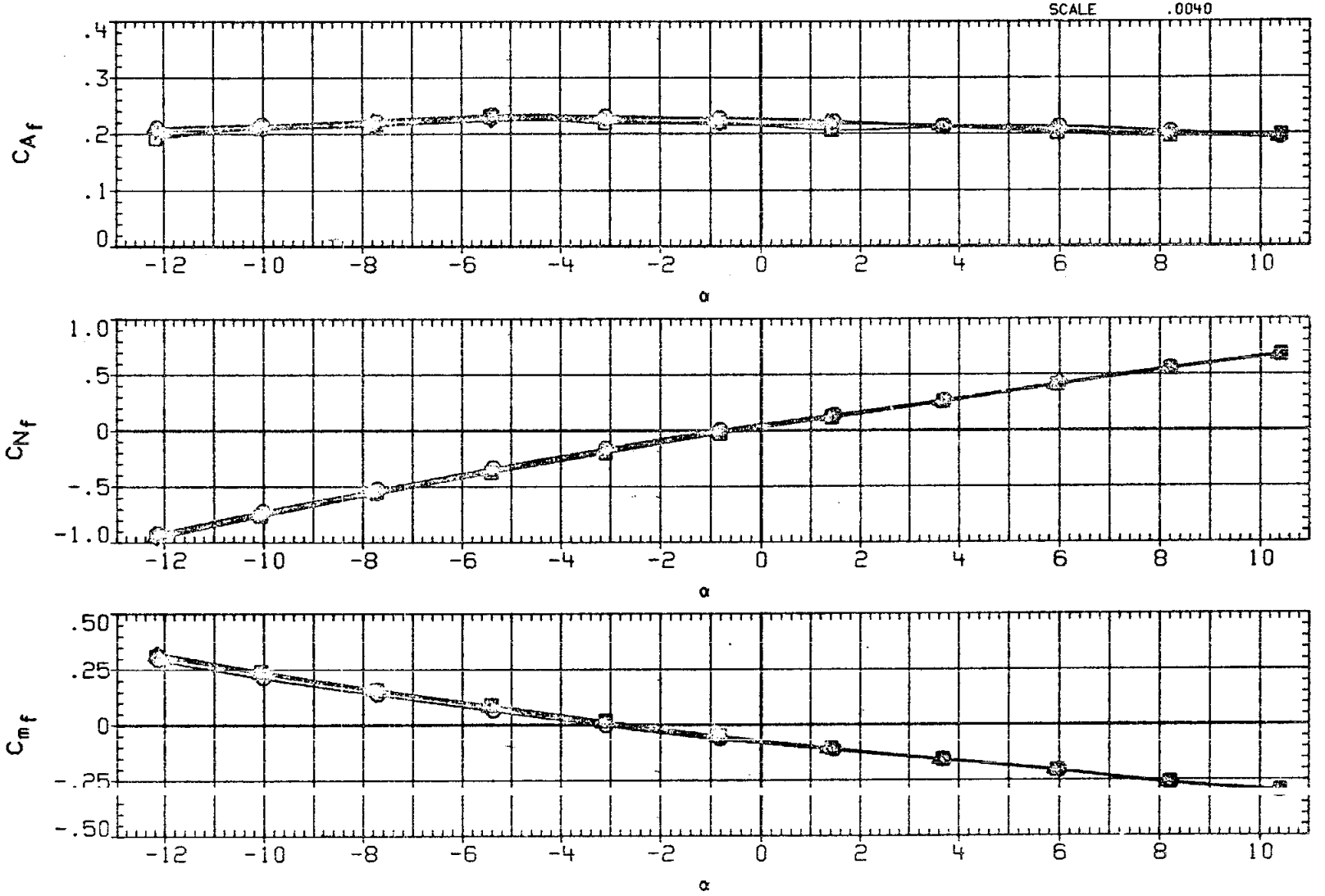

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

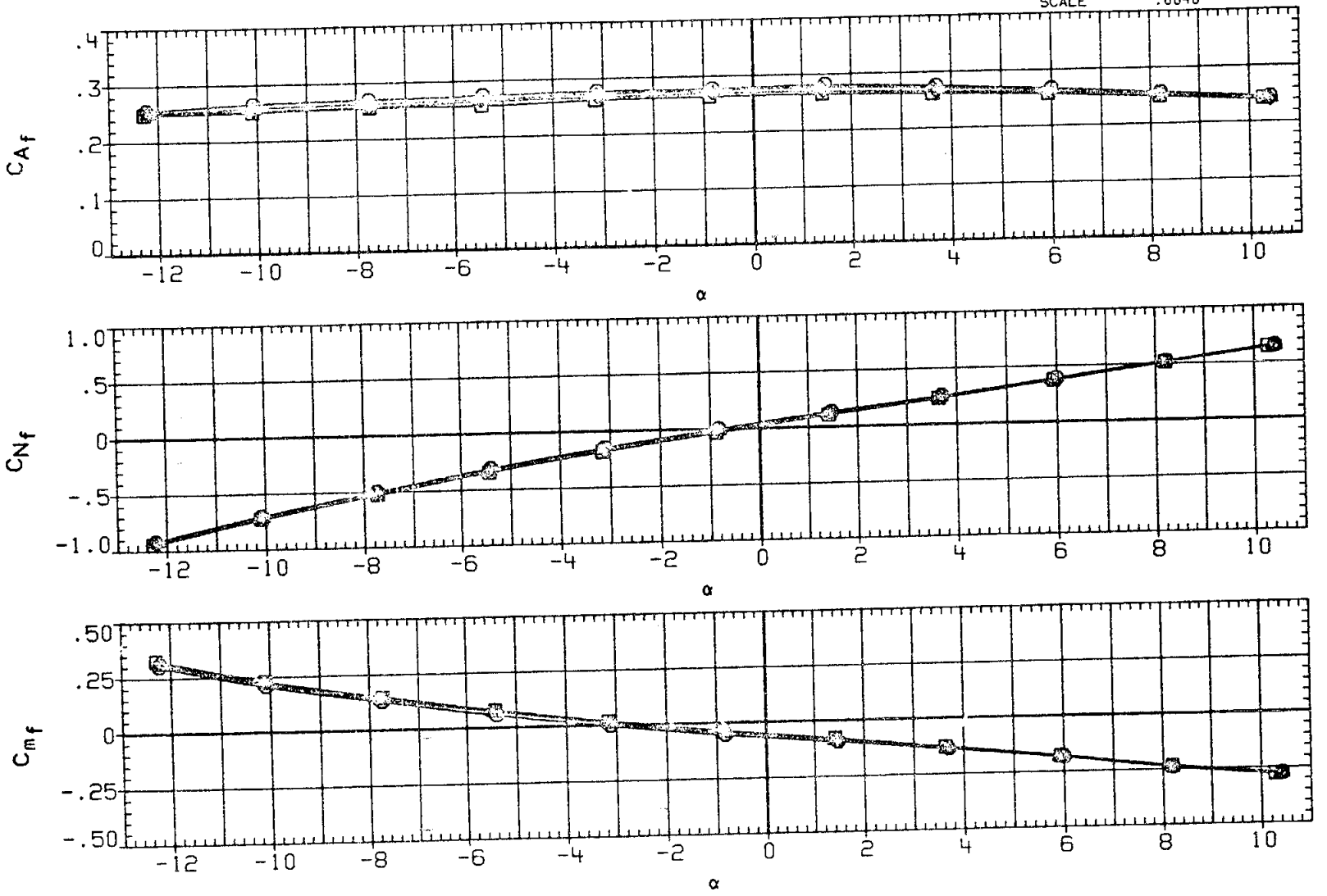

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

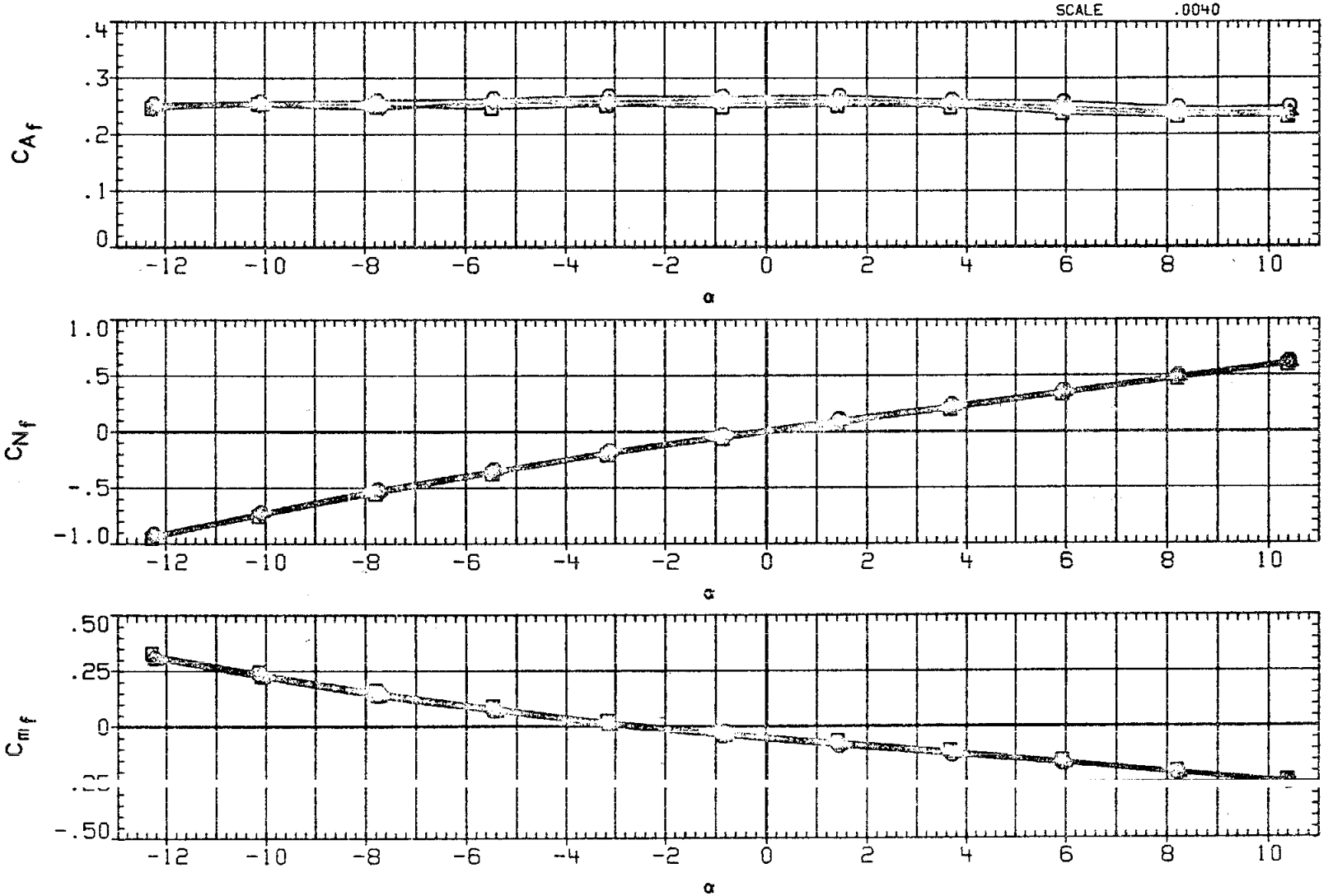

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

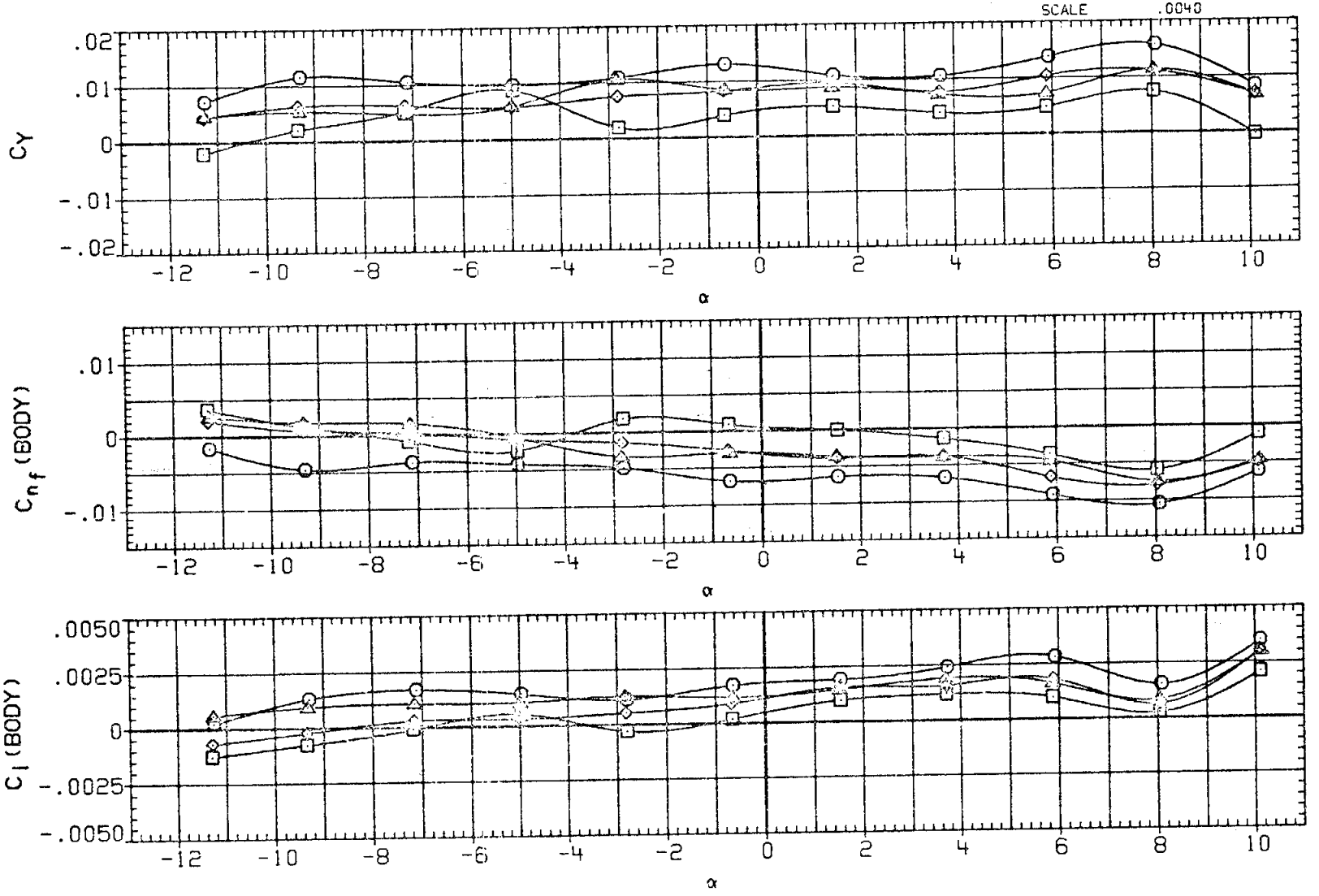

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

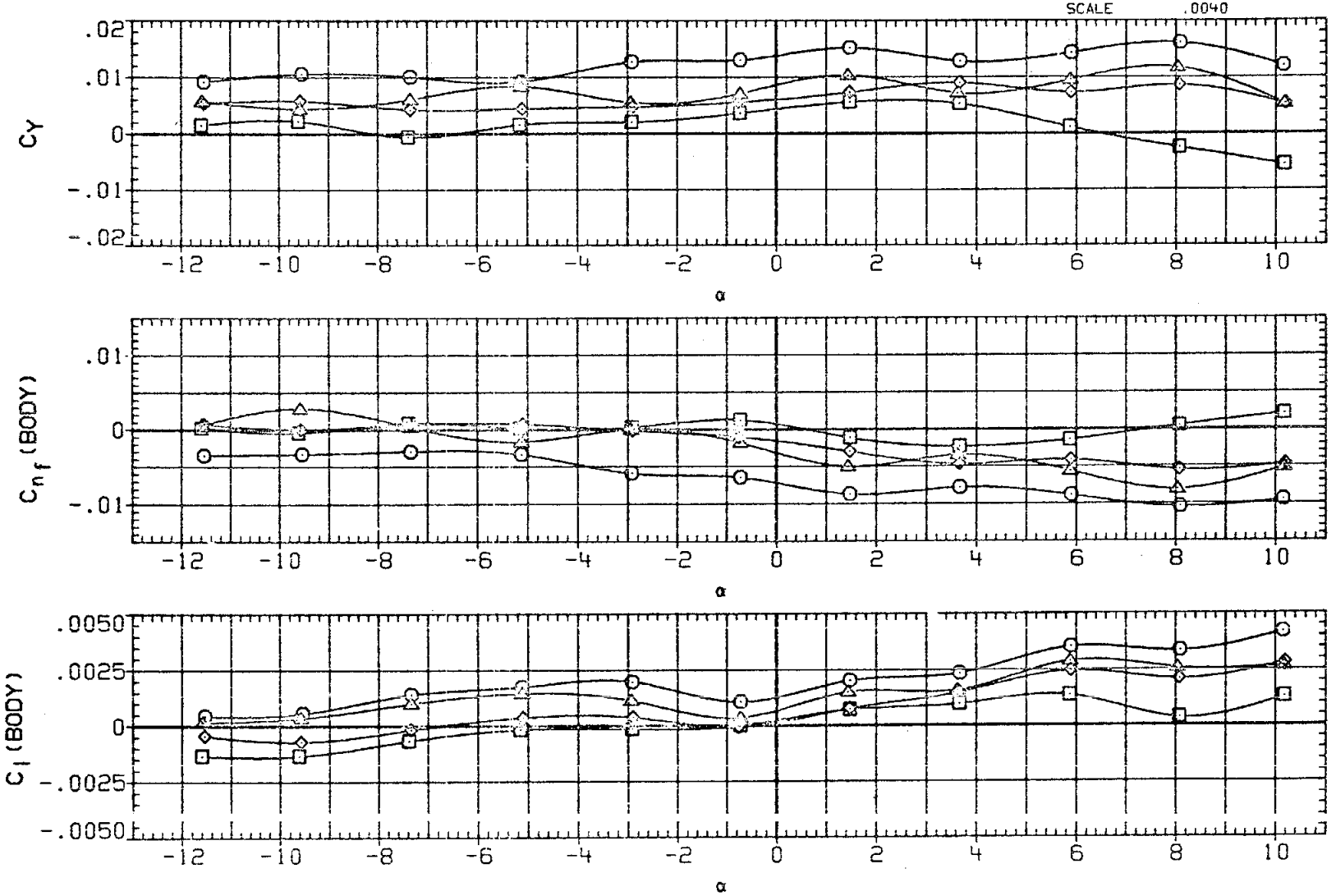

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

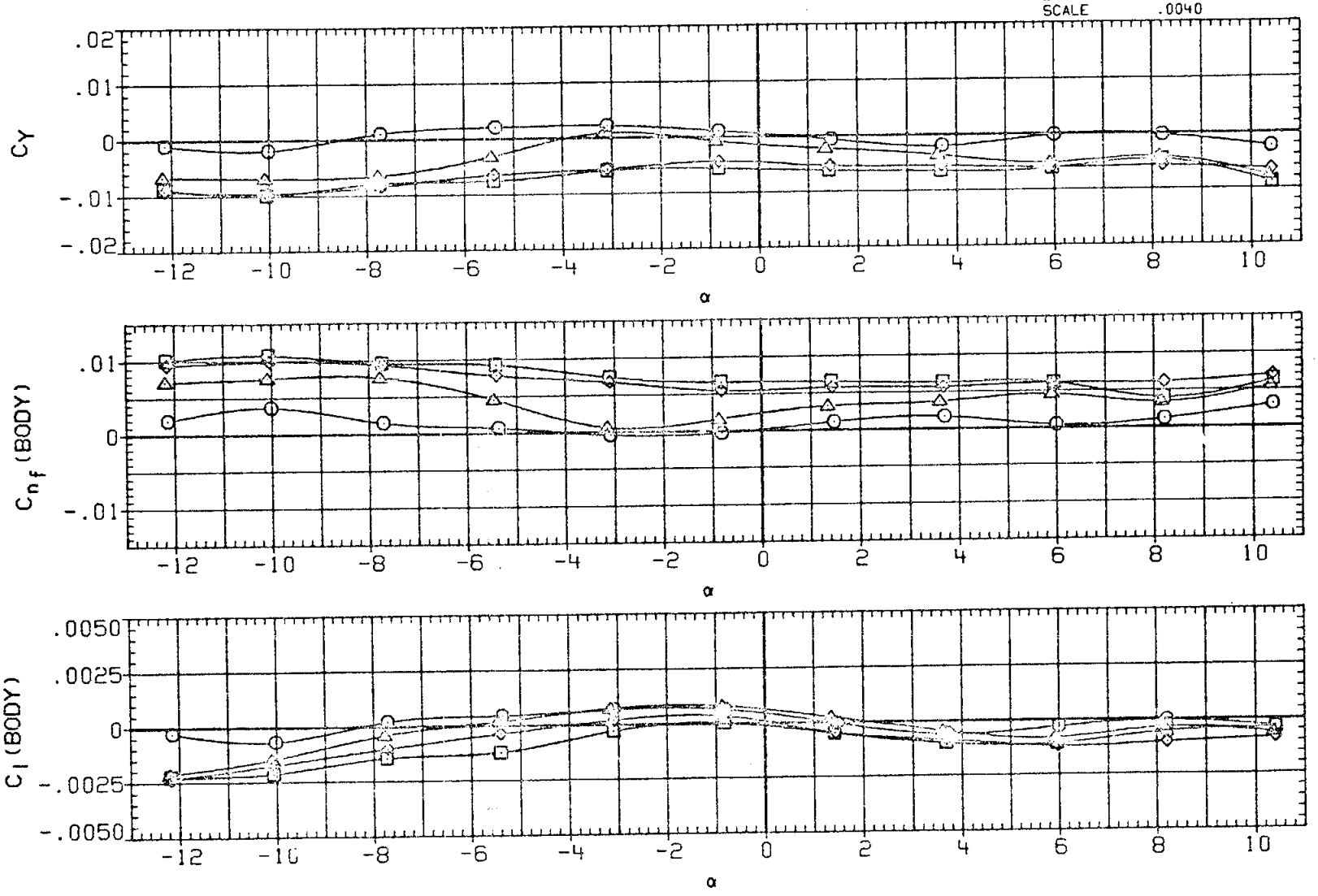

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

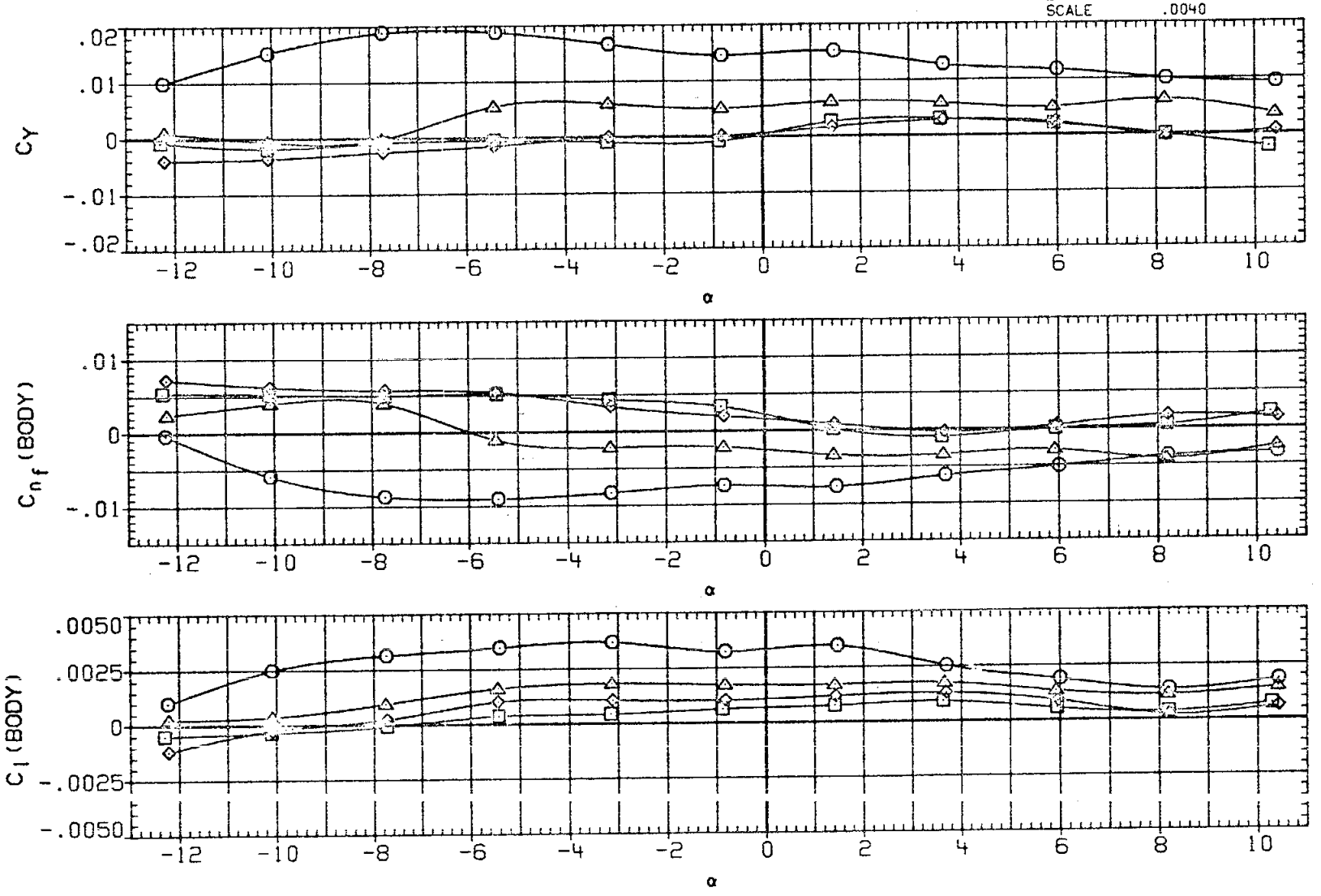

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
RA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
RA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
RA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
RA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

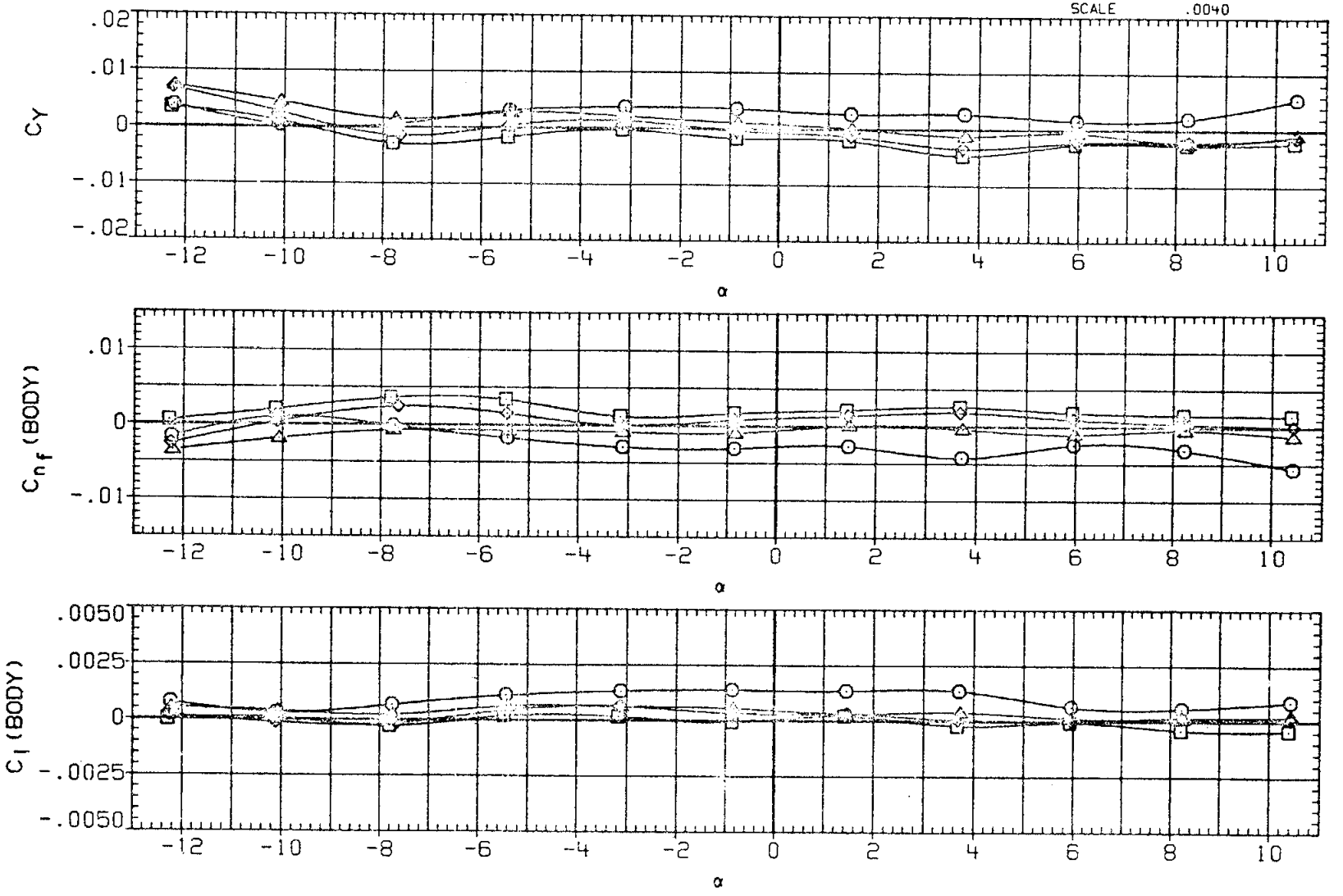

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

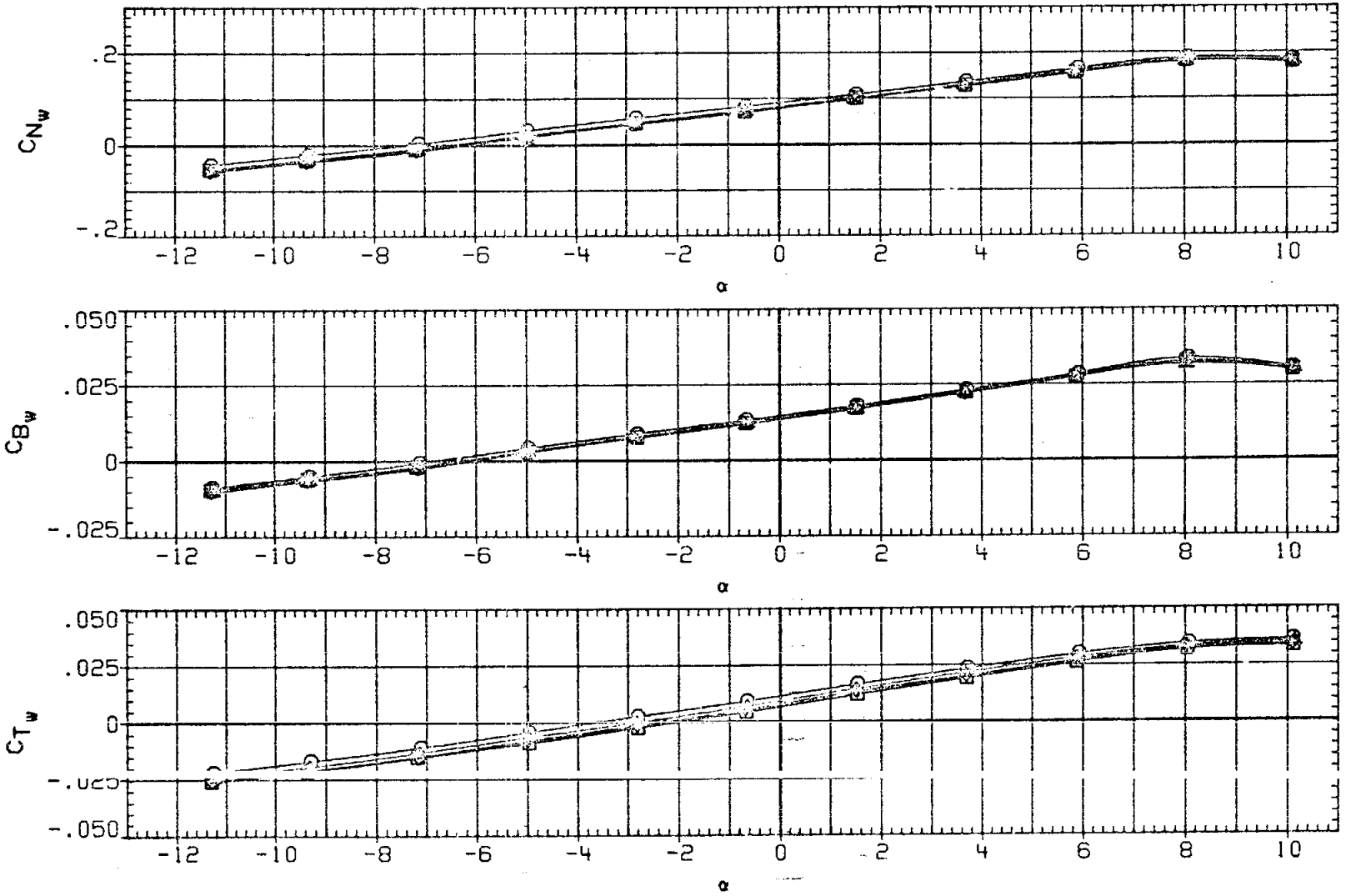

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

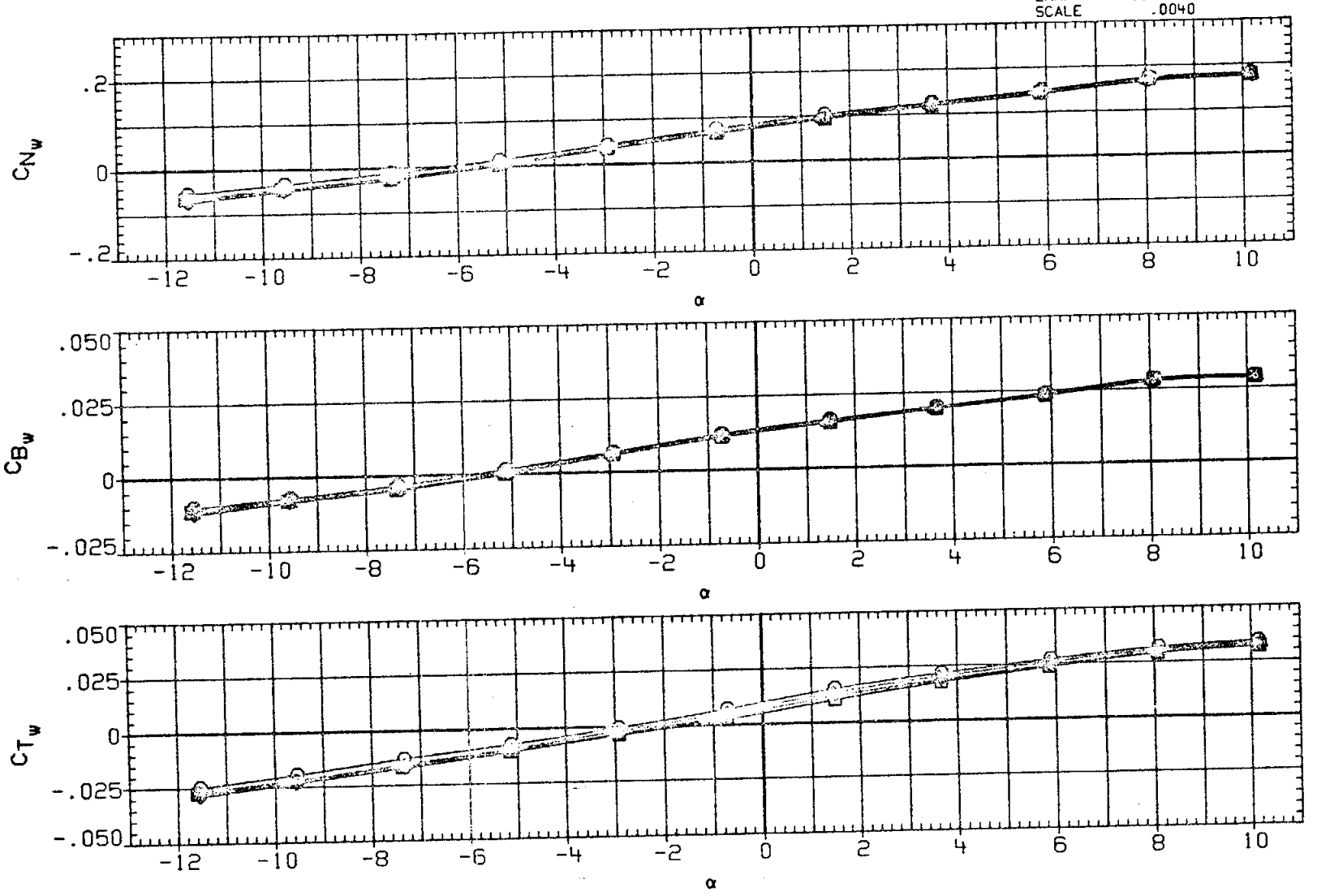

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

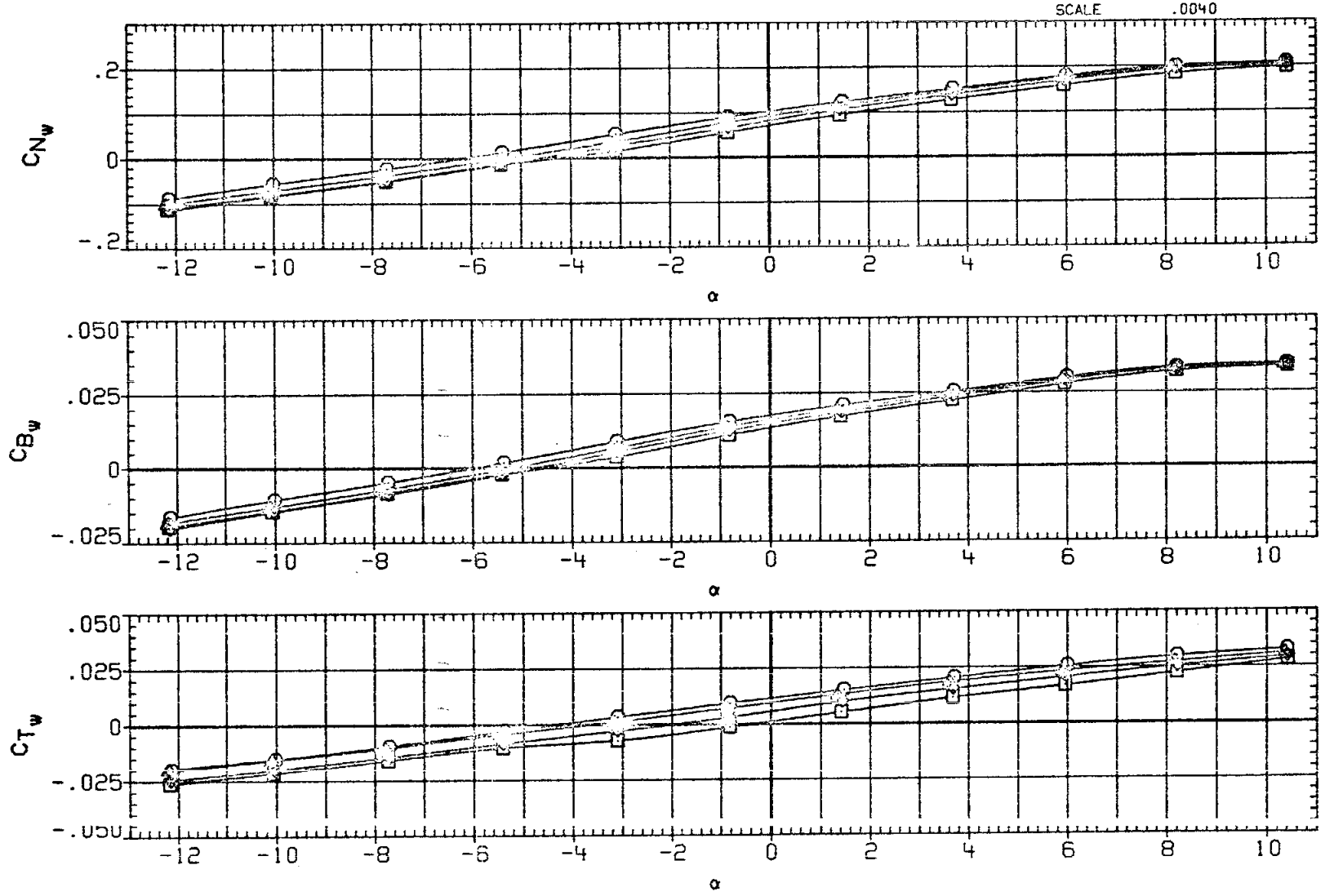

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(-C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

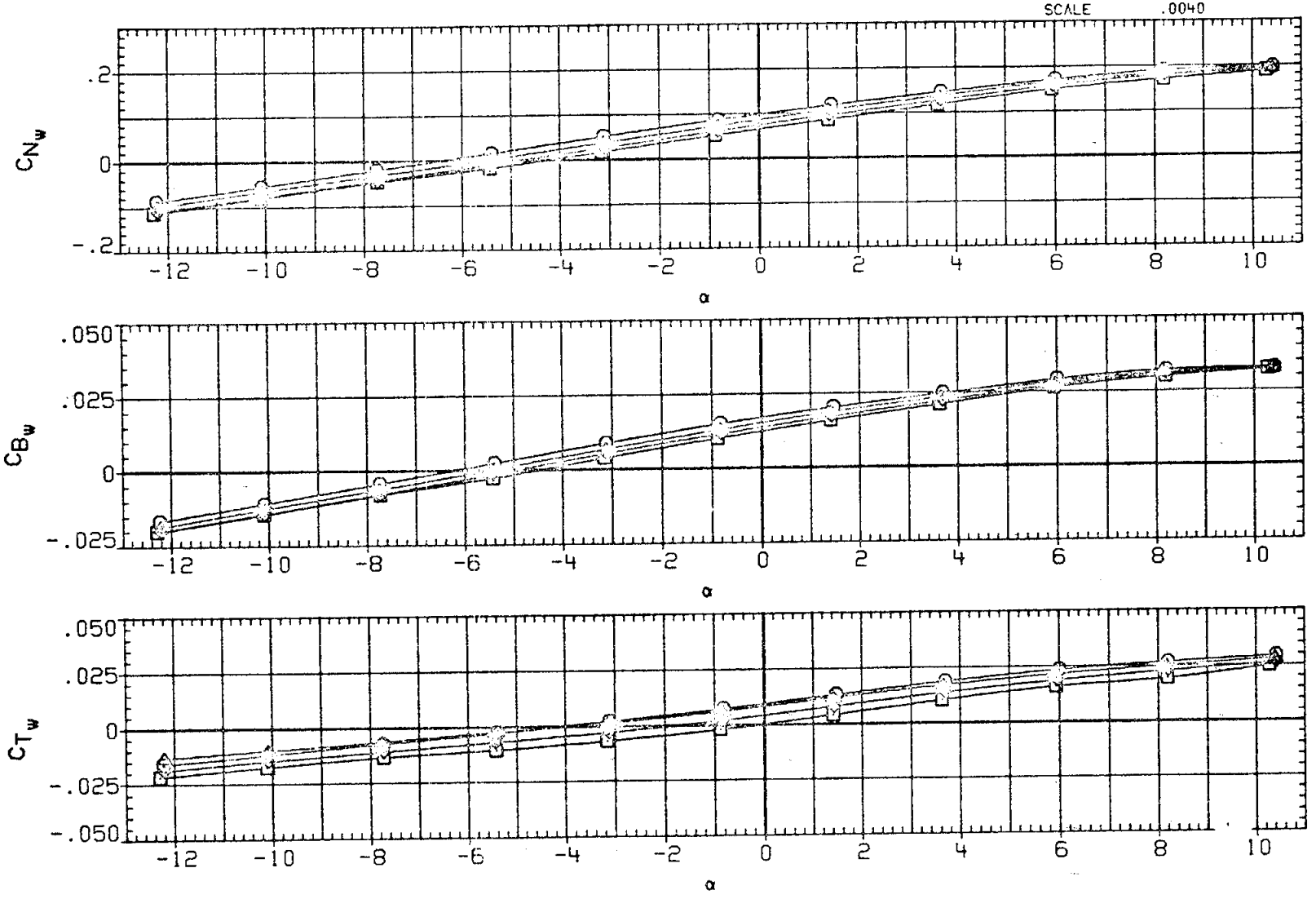

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

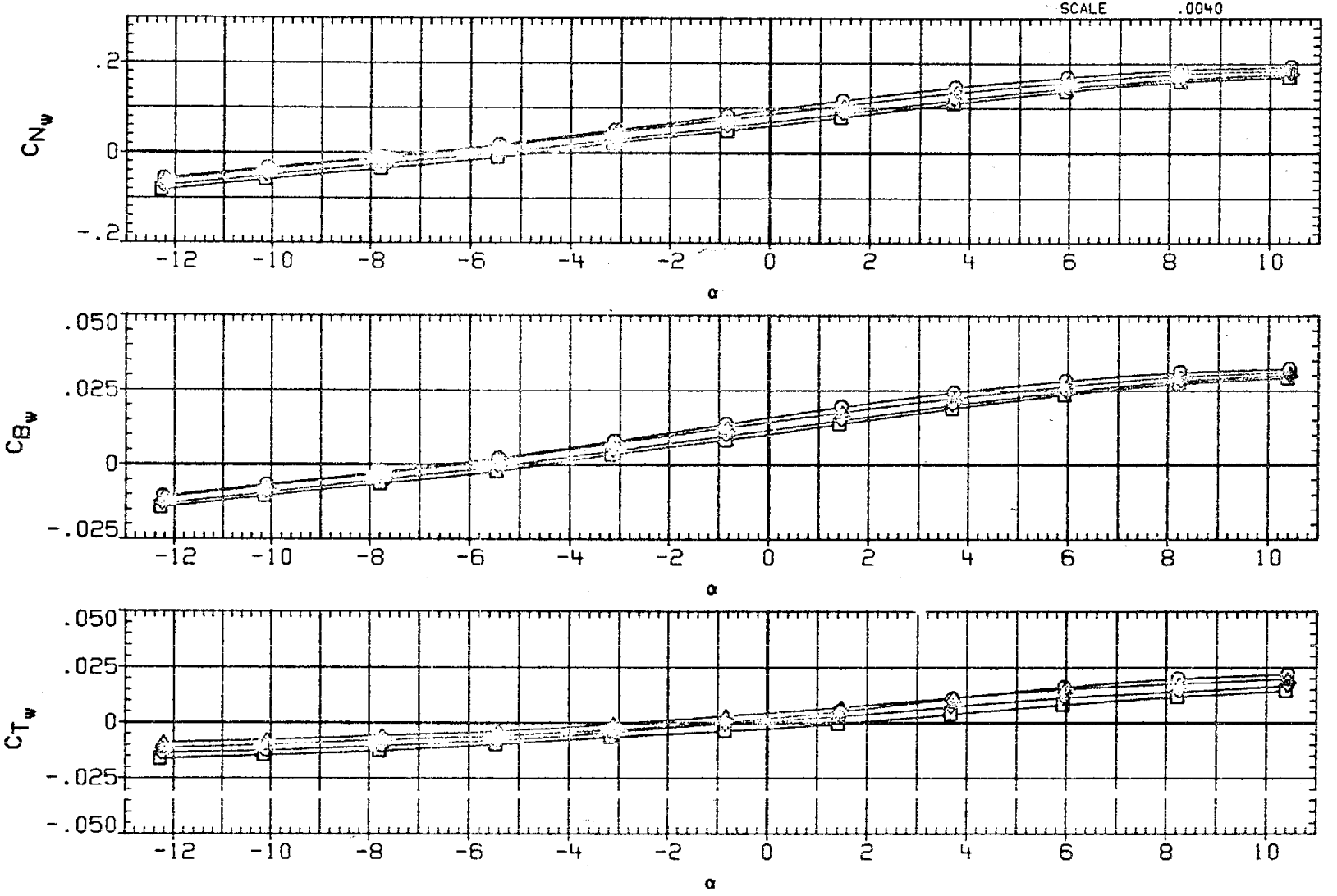

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

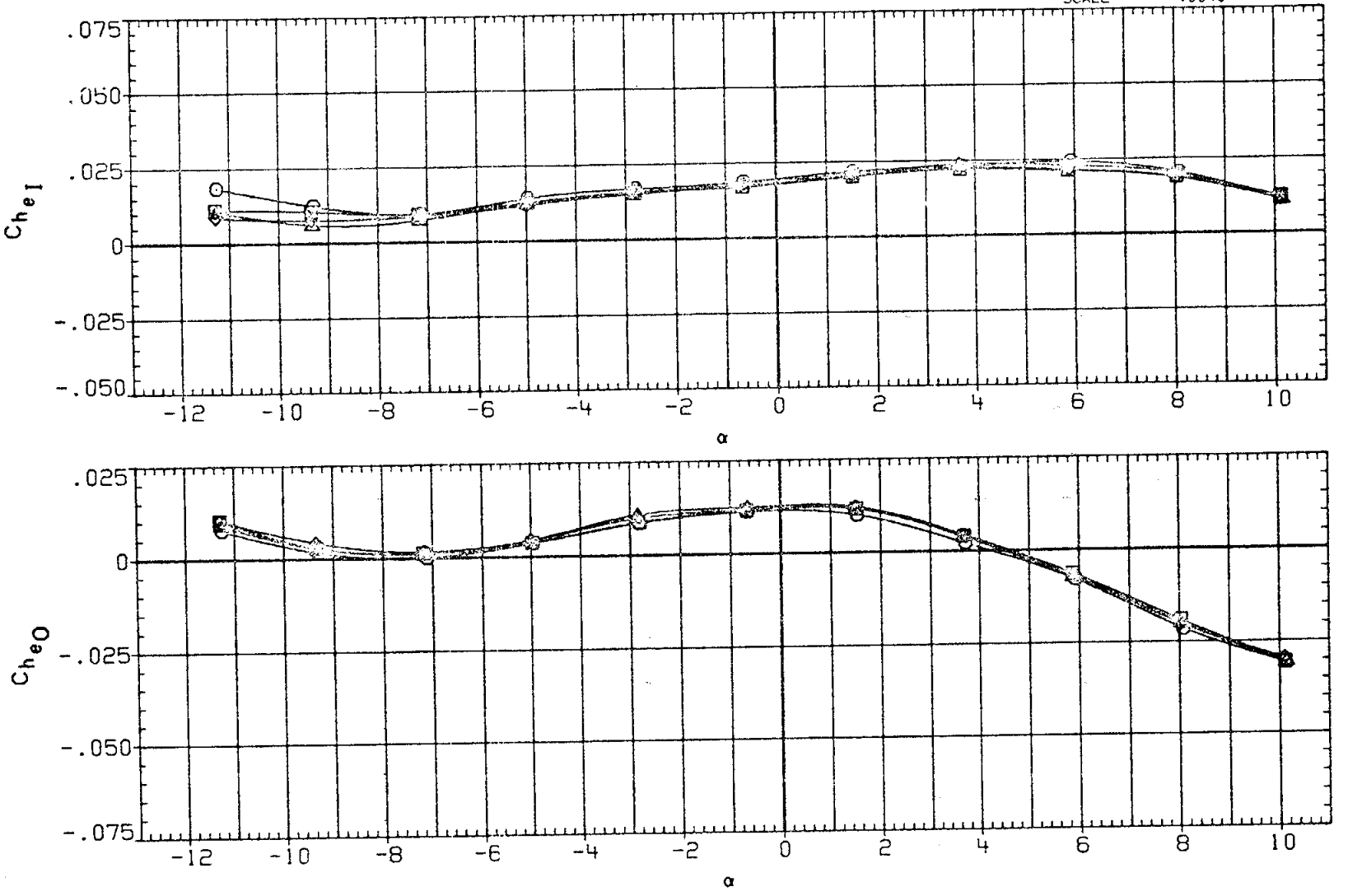

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

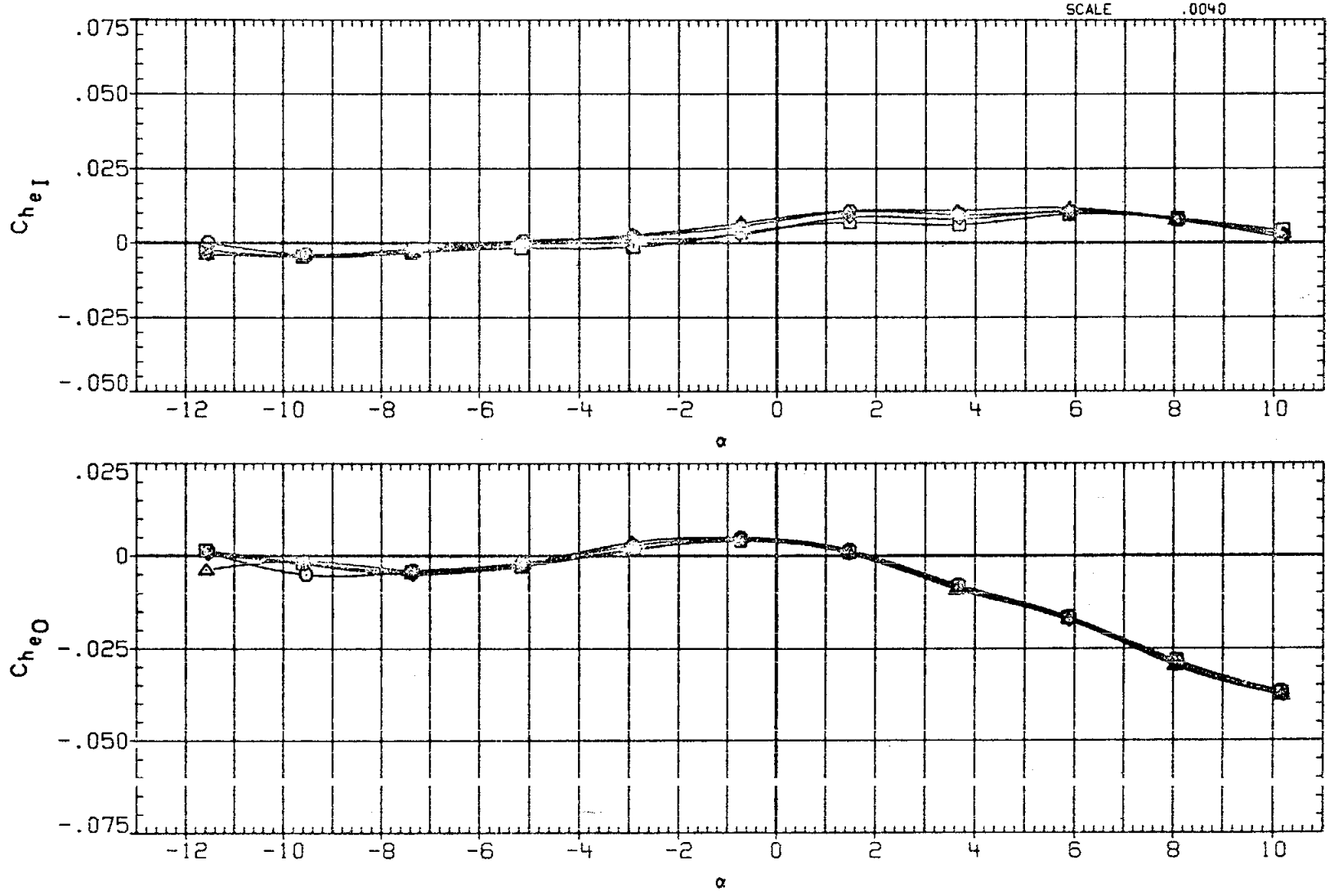

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(B)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

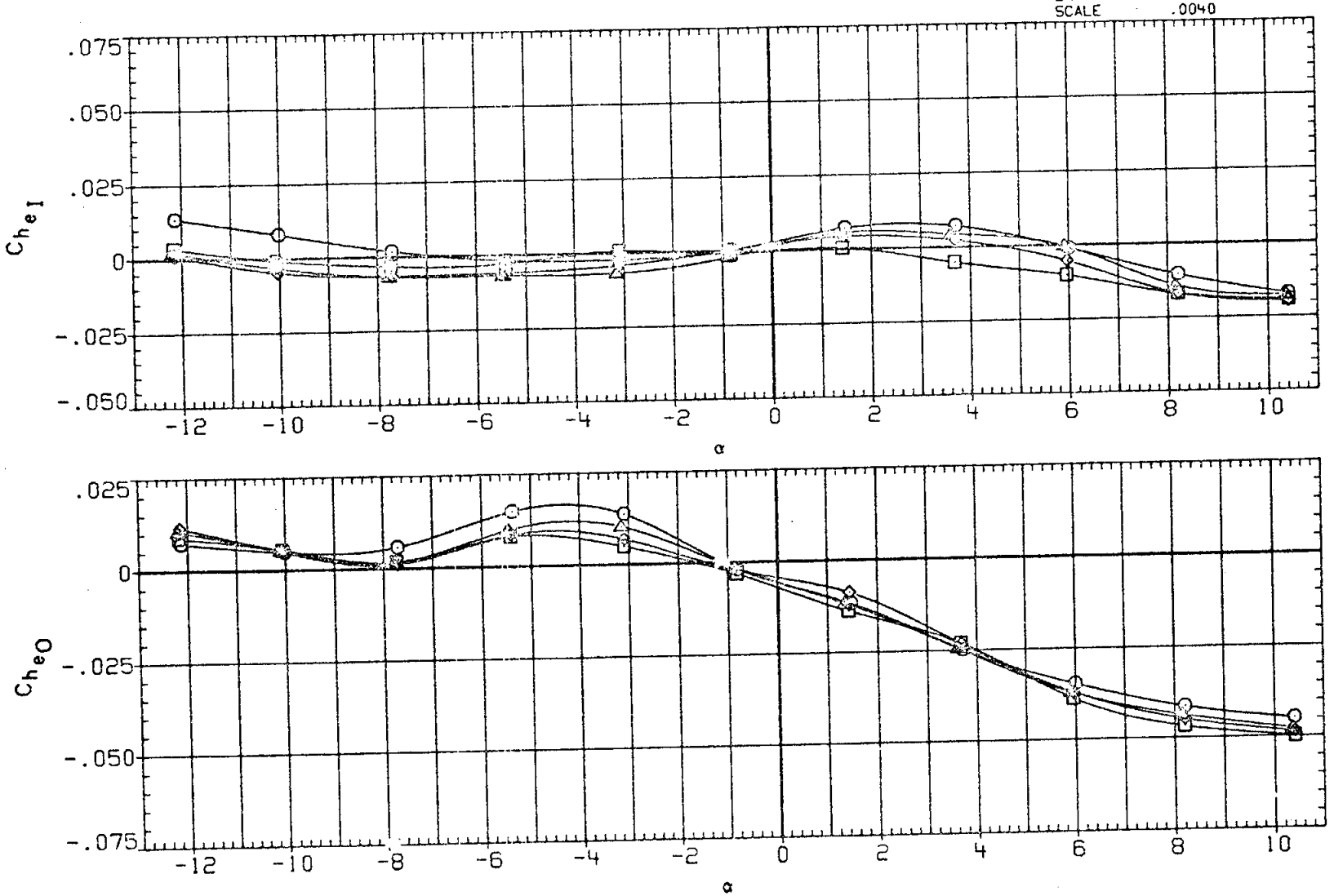

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(C)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

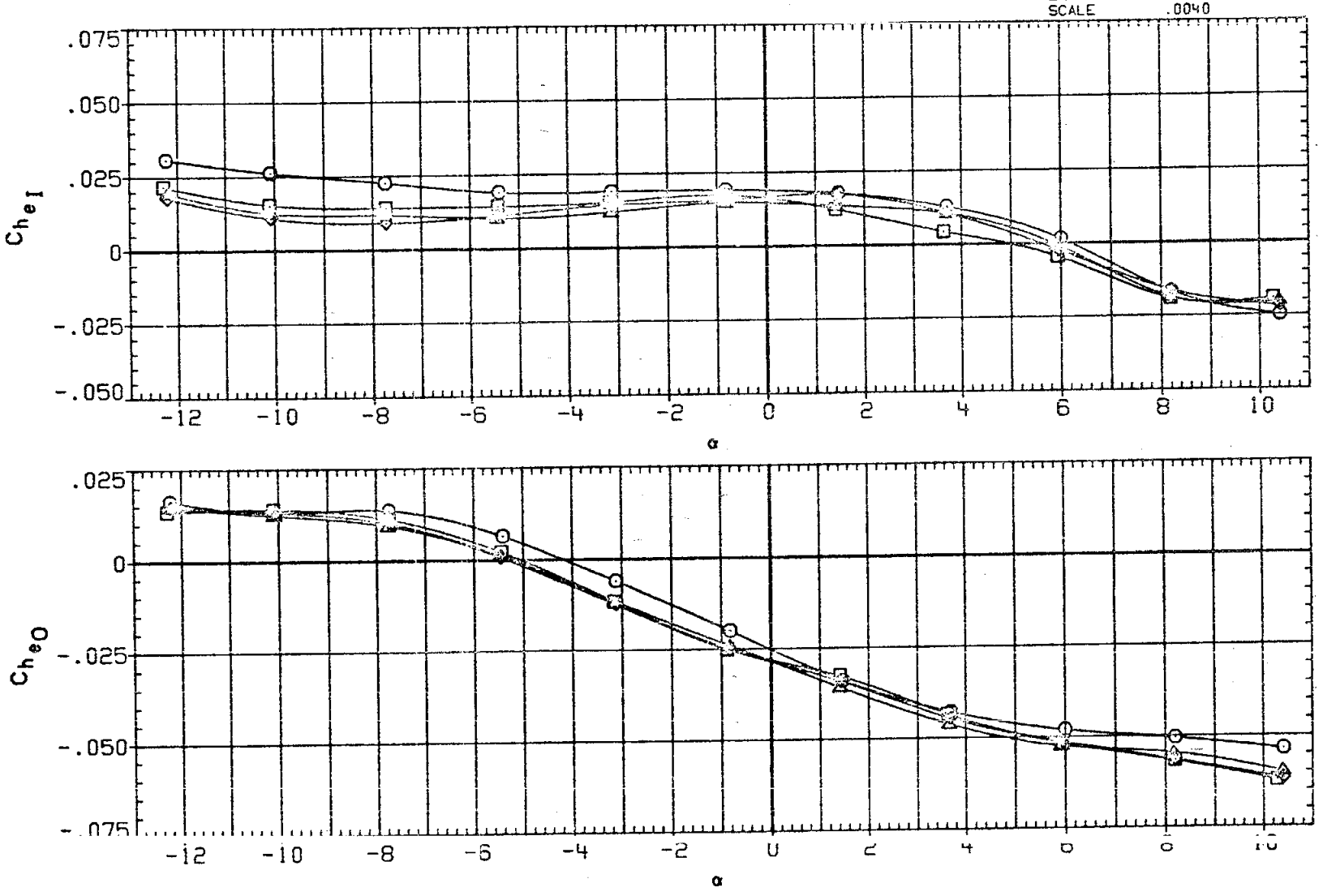

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(D)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
TA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
TA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
TA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
TA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

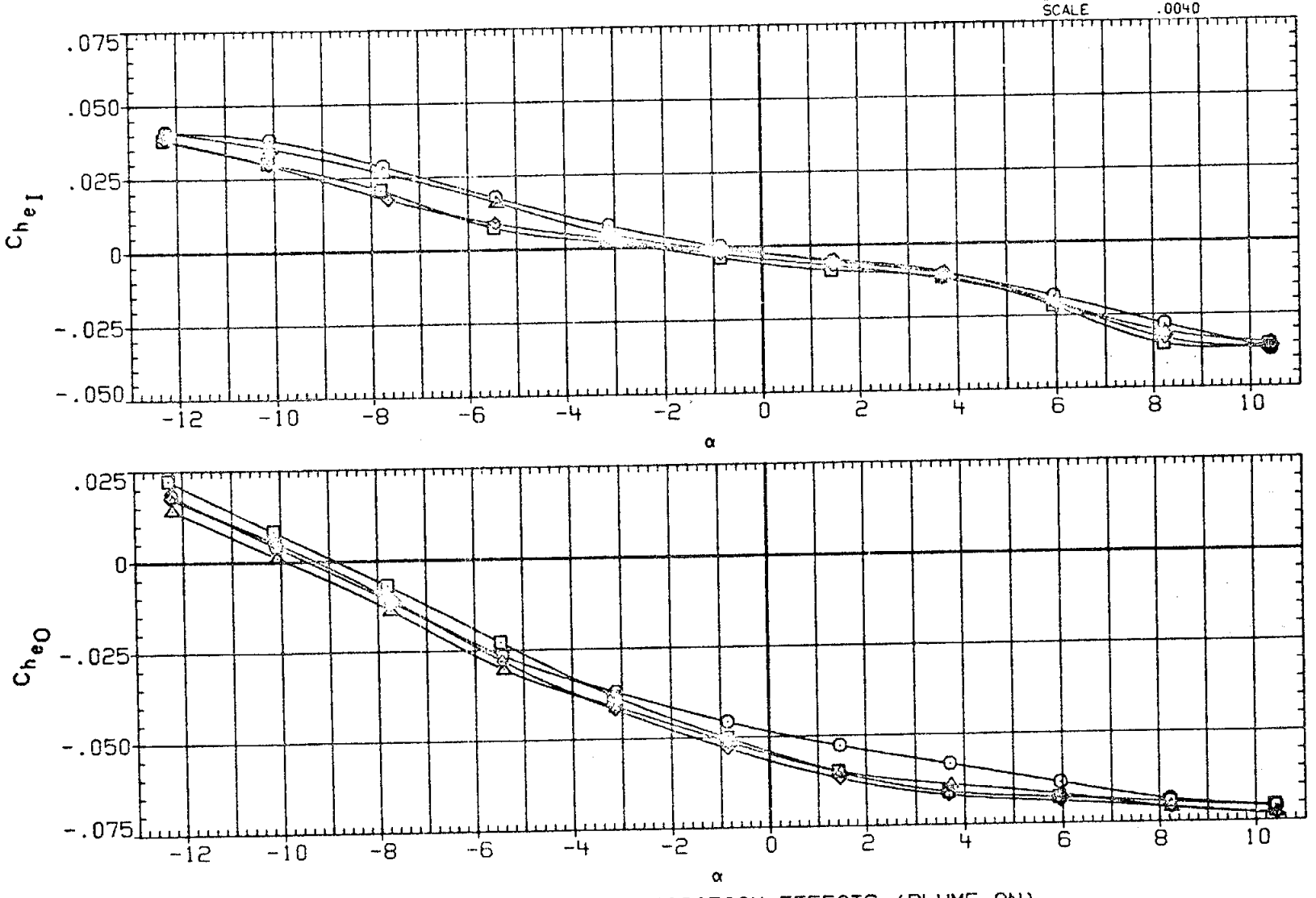

FIG. 10 BASIC DATA - OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(E)MACH = 1.46

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
AA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
AA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
AA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

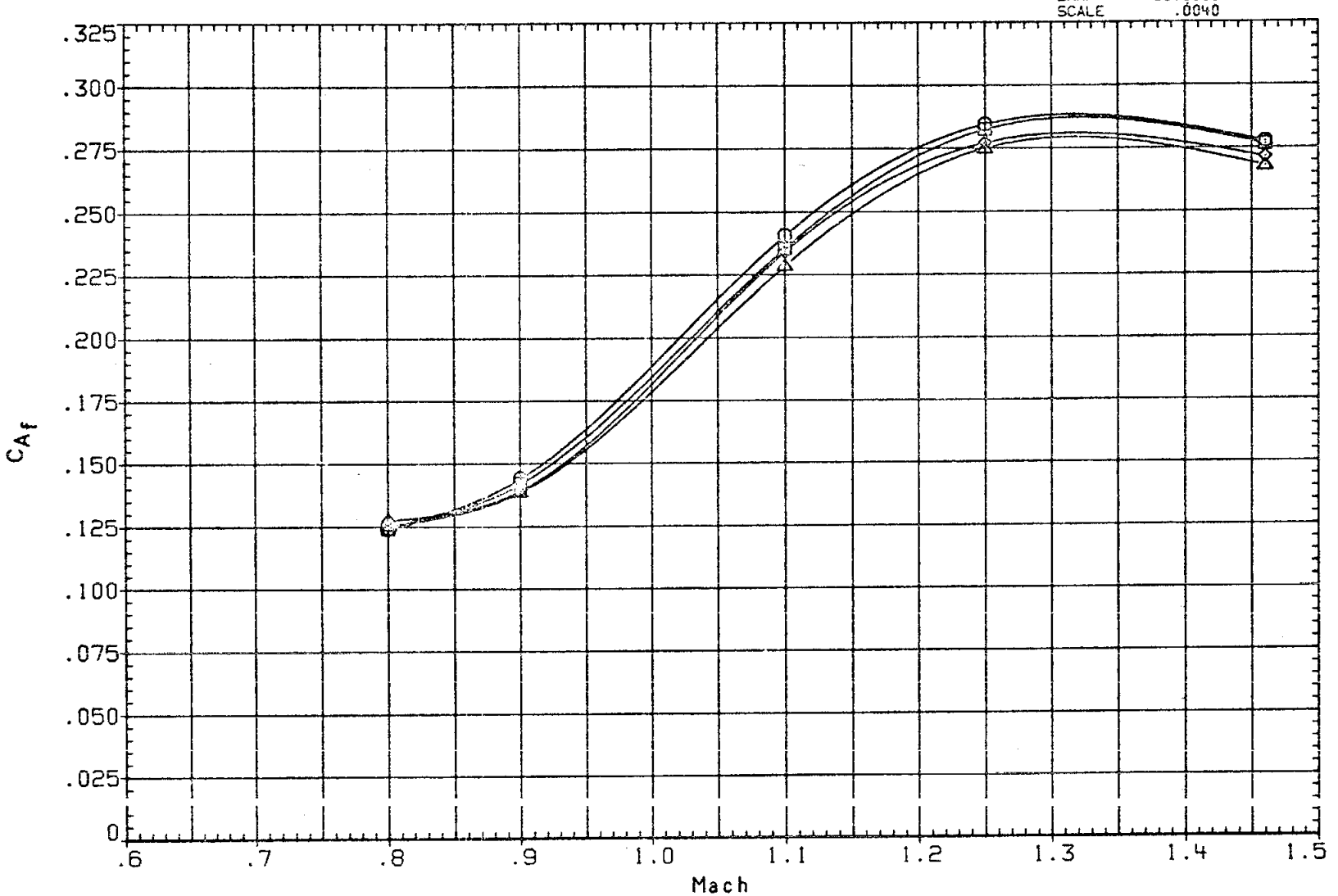

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6005	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

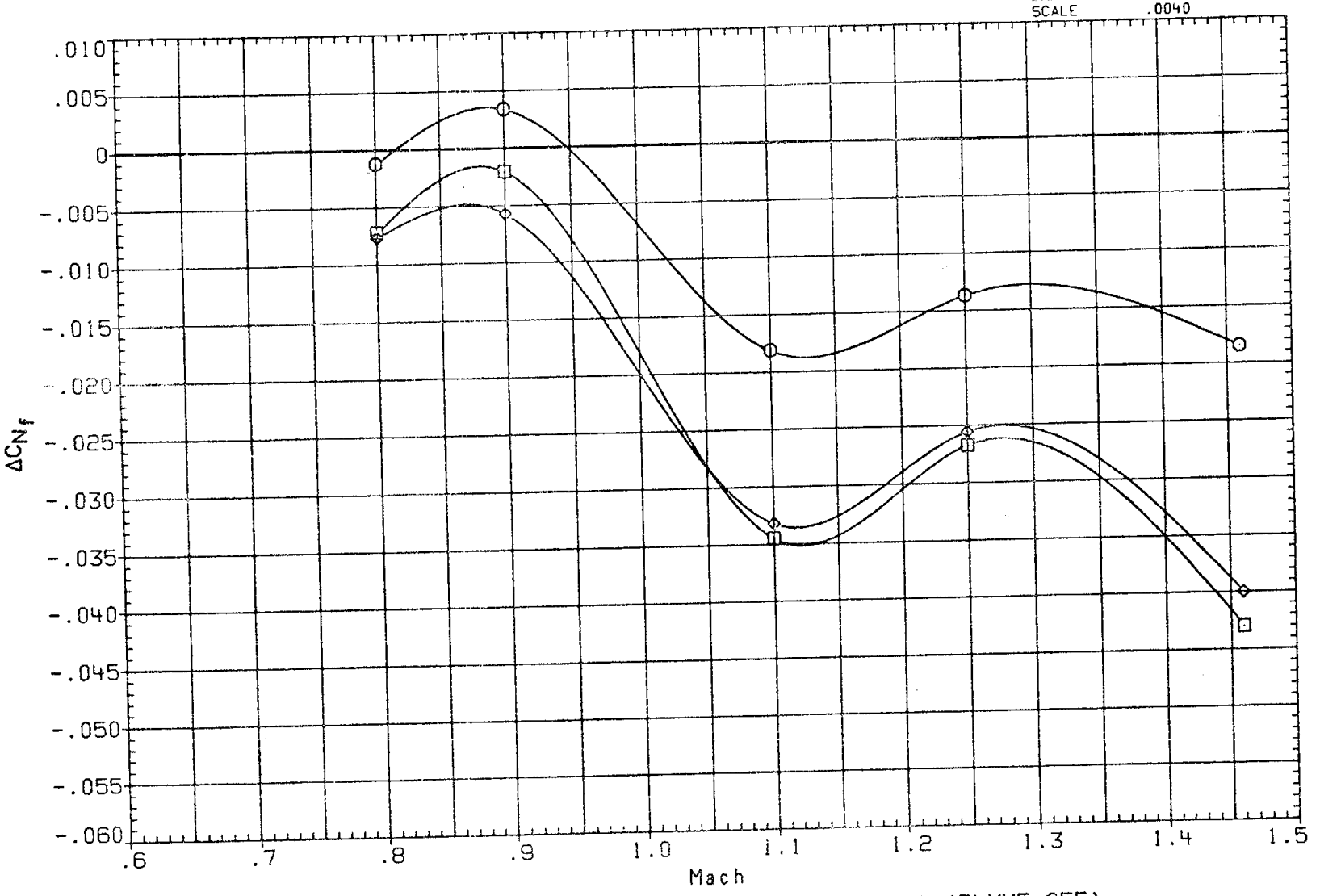

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6005	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

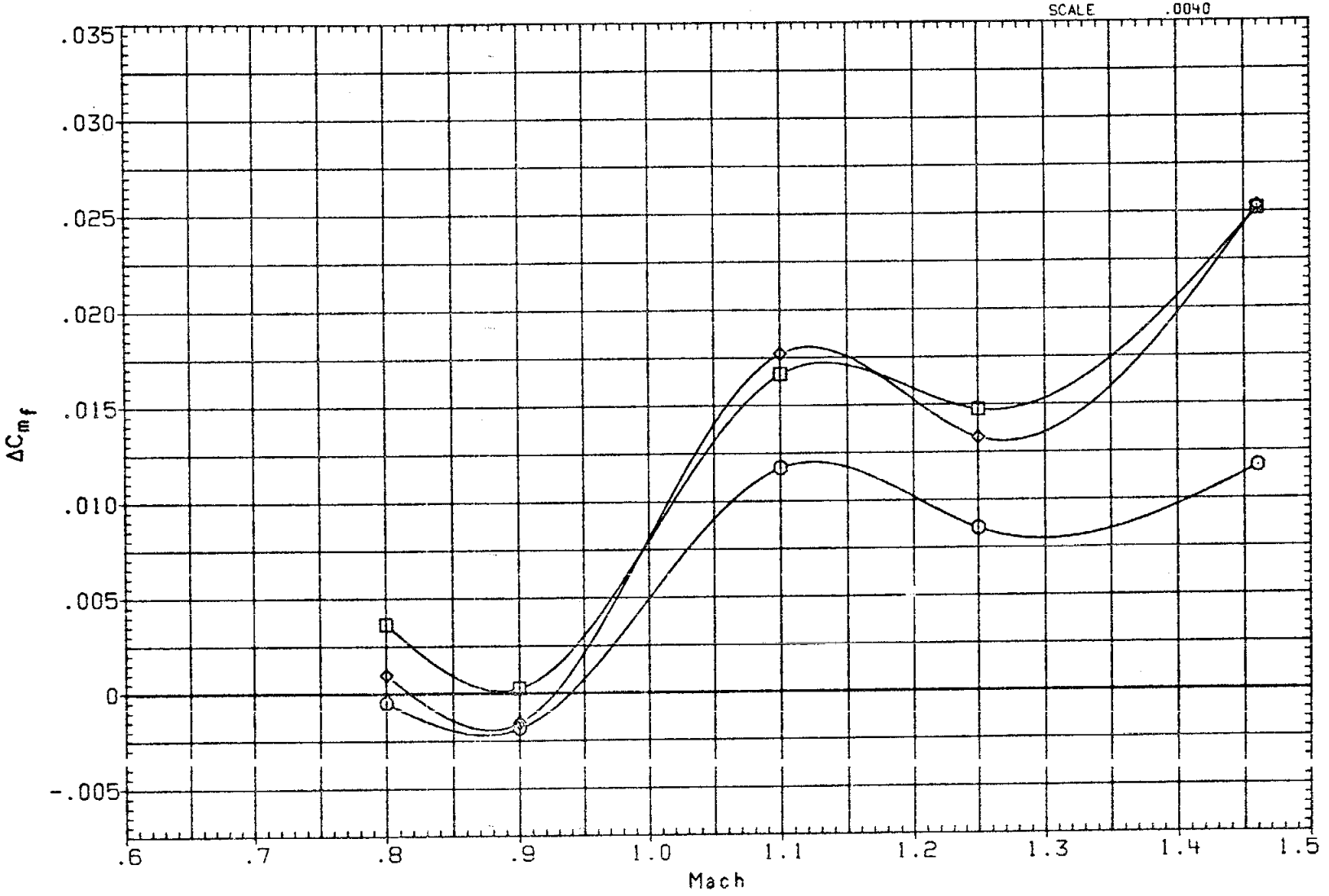

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
AA6002	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
AA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
AA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

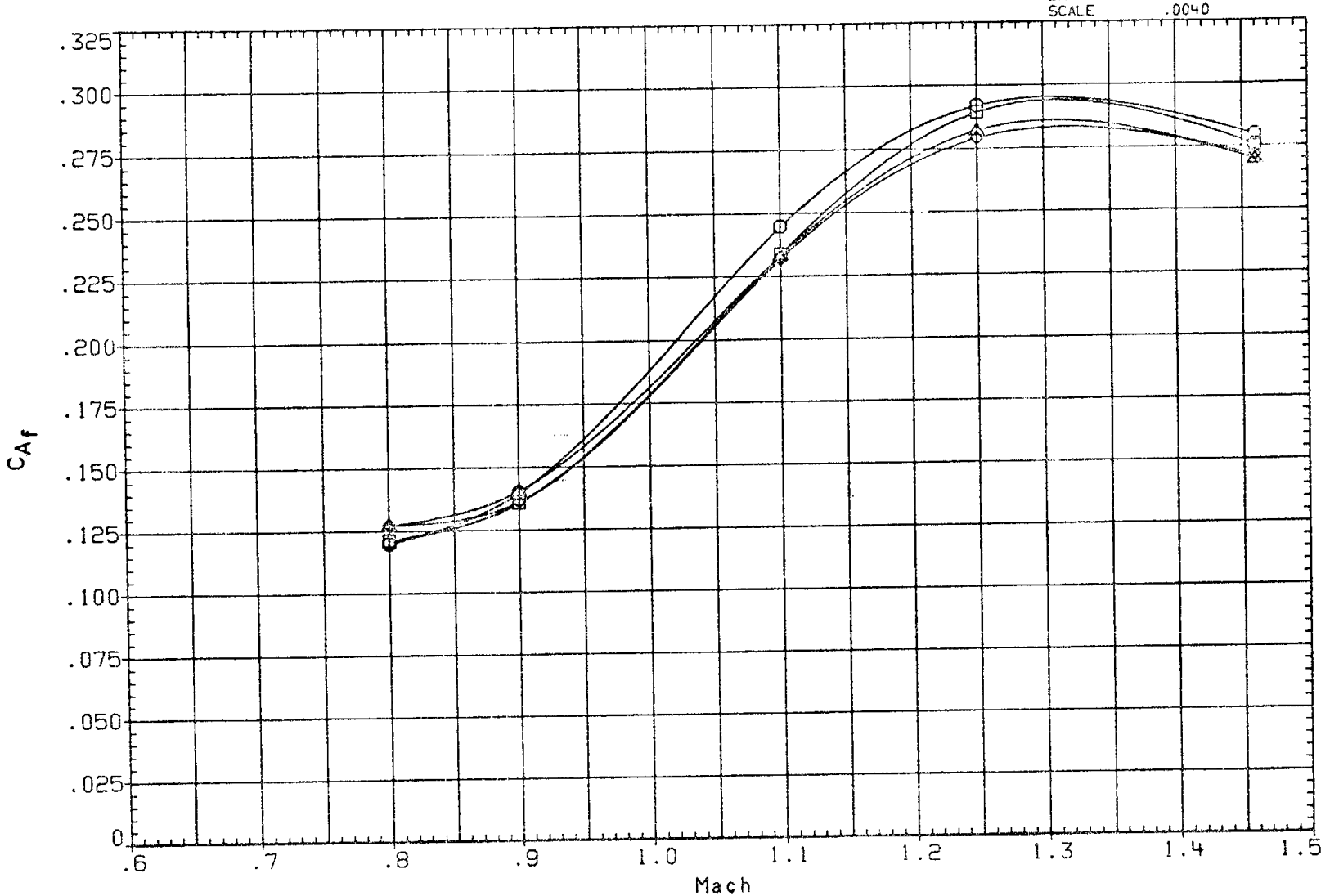

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6005	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

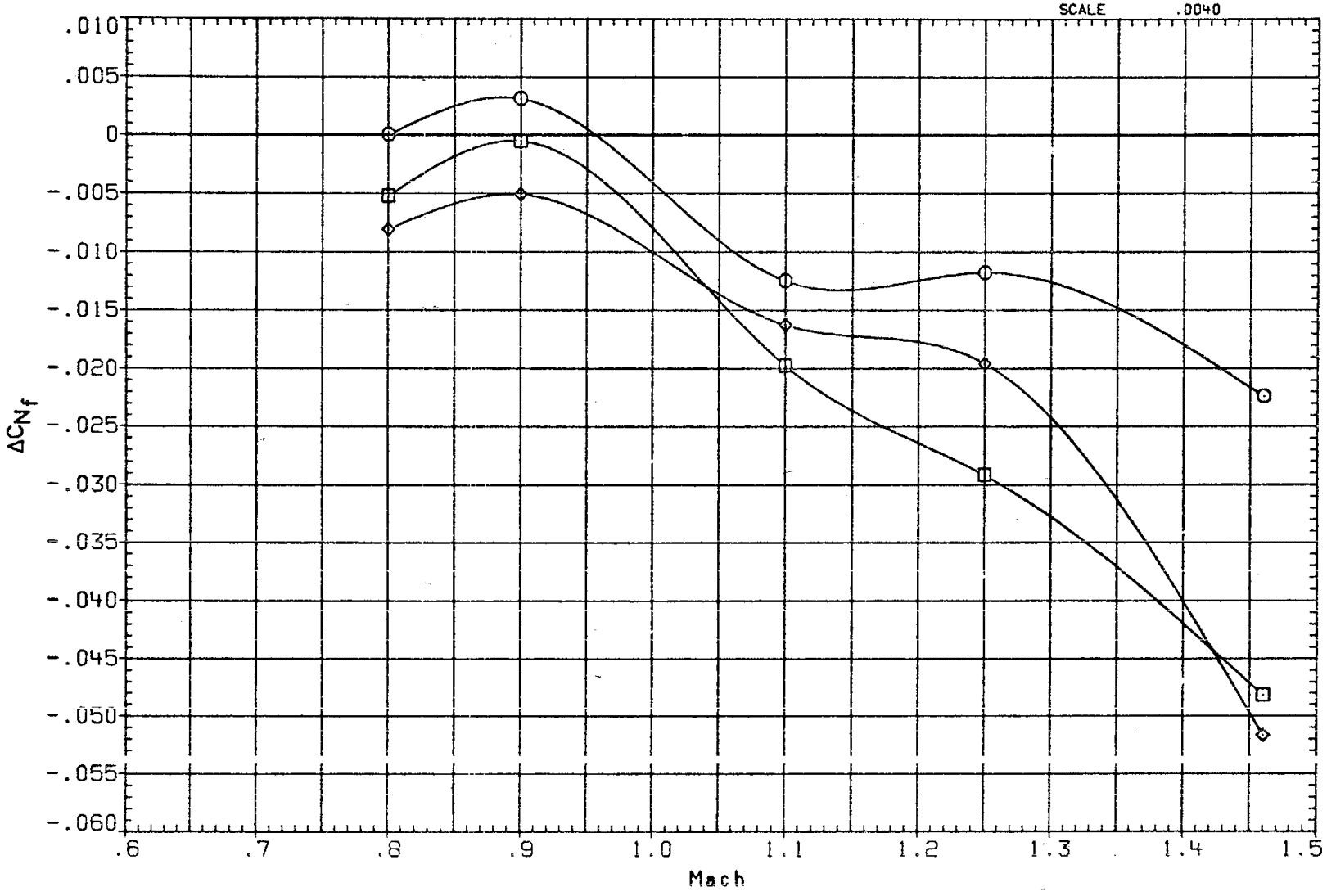

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA5002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6005	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

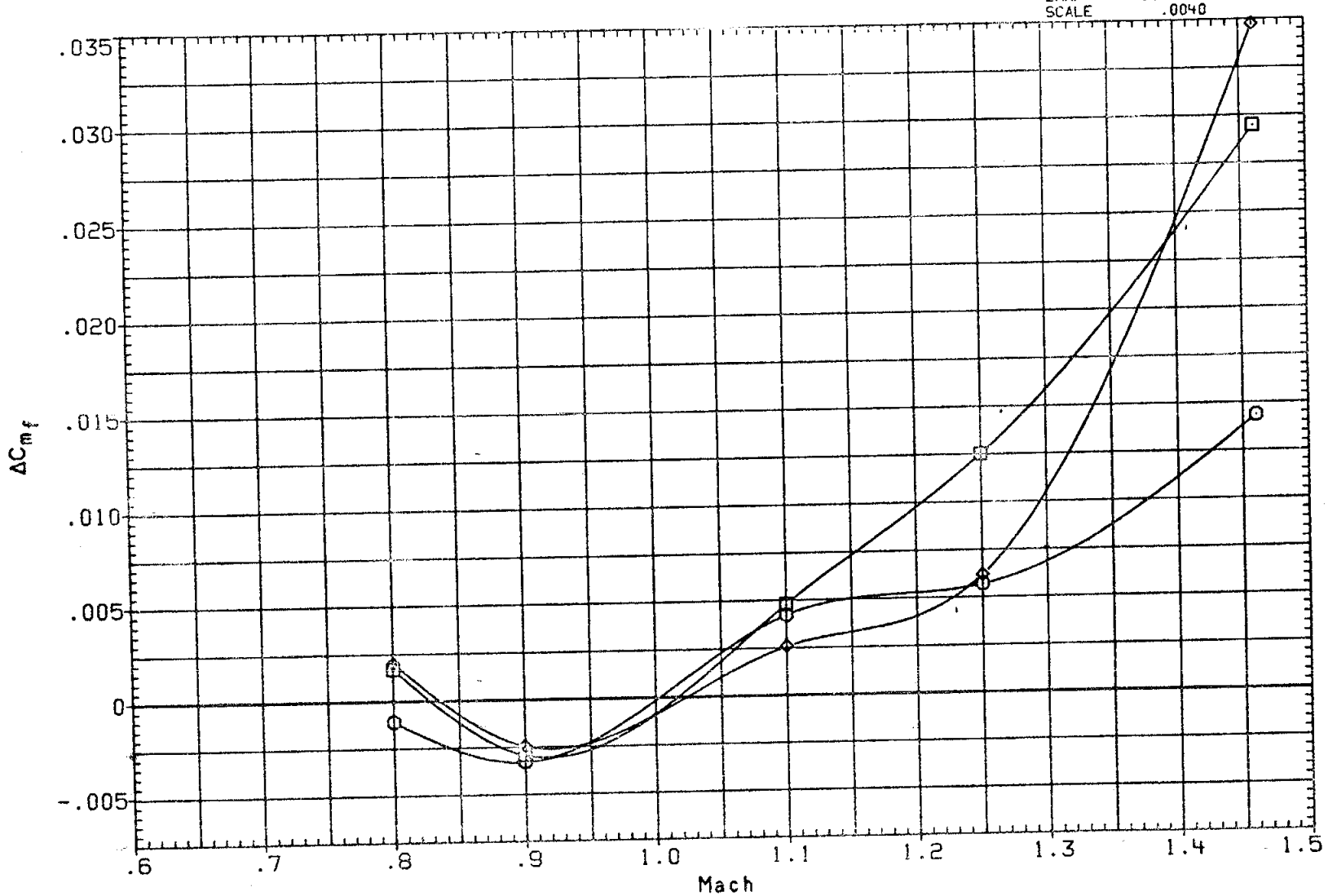

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6005	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

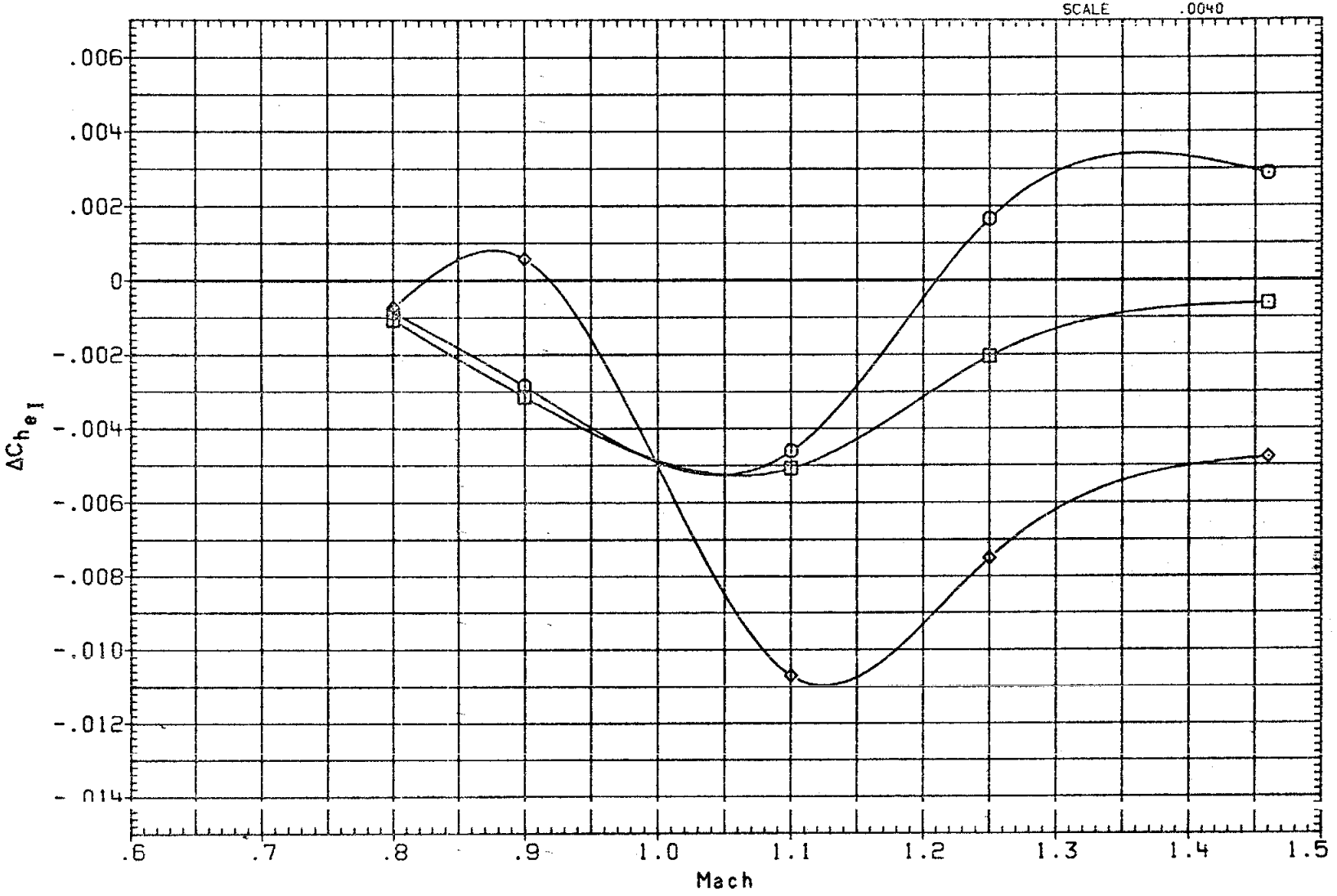

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6005	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

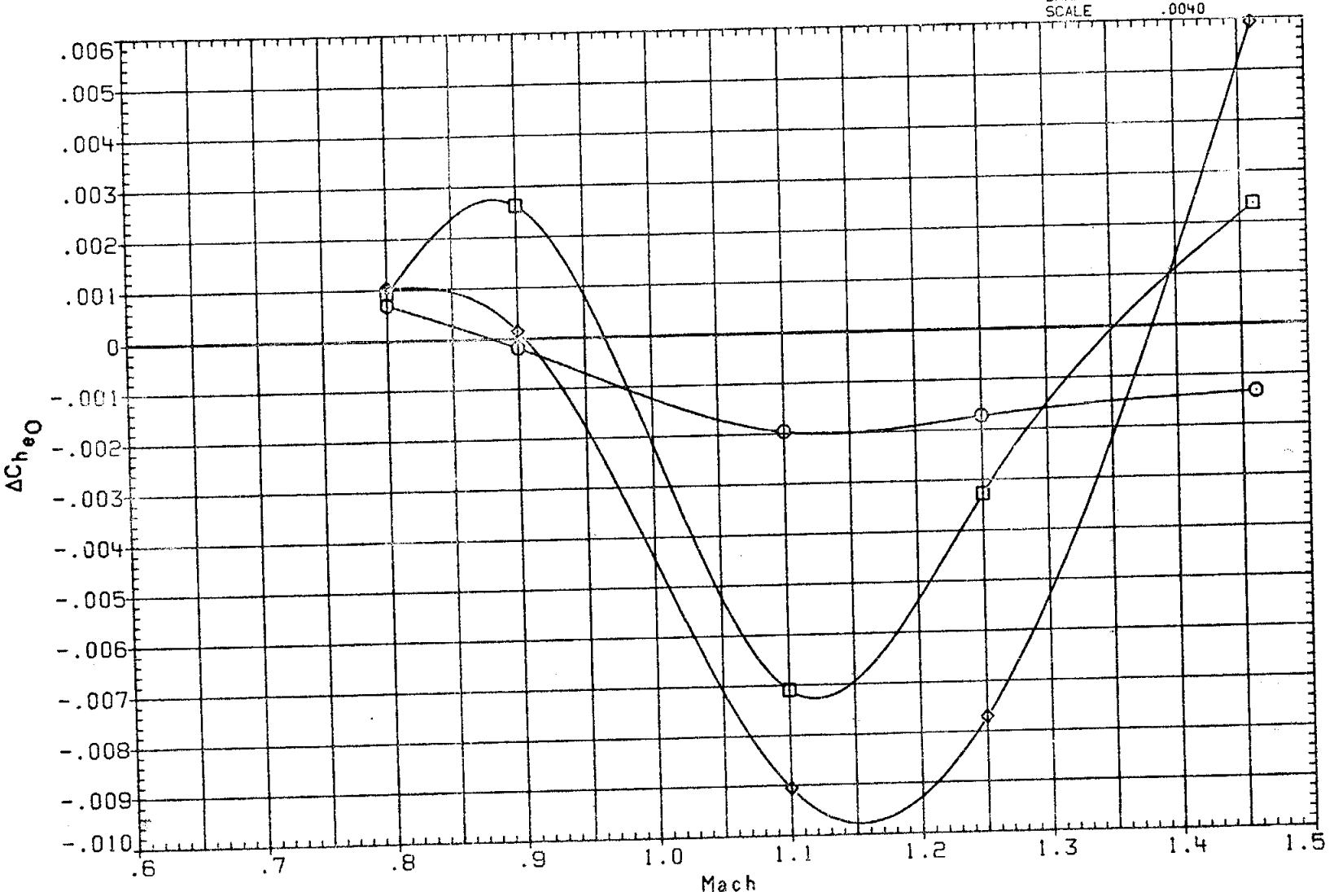

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6005	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

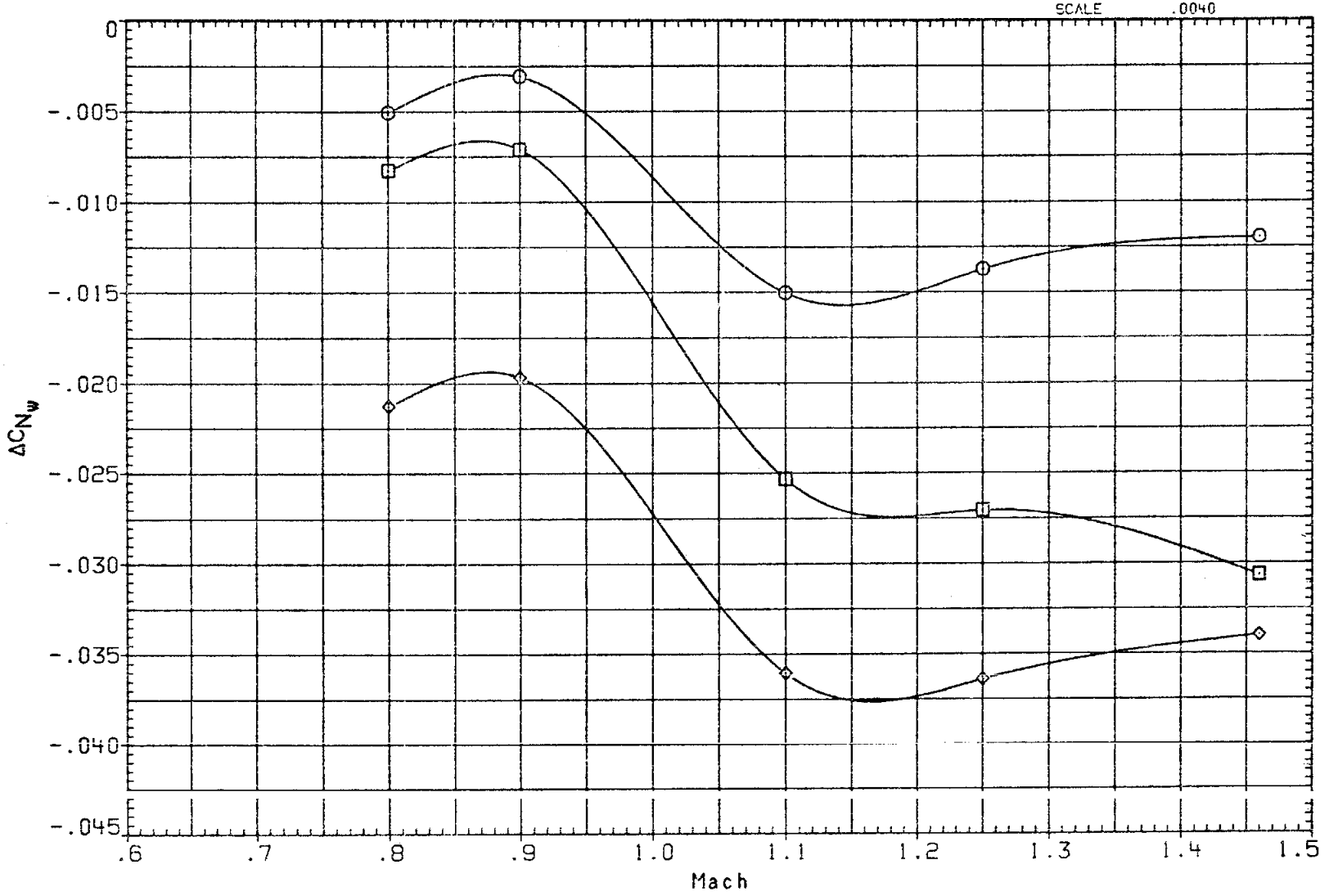

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA5002	○	OTS + 10 DEG.RAMP(POS.1).INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6005	□	OTS+OGIVE FAIRING(POS.1).INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

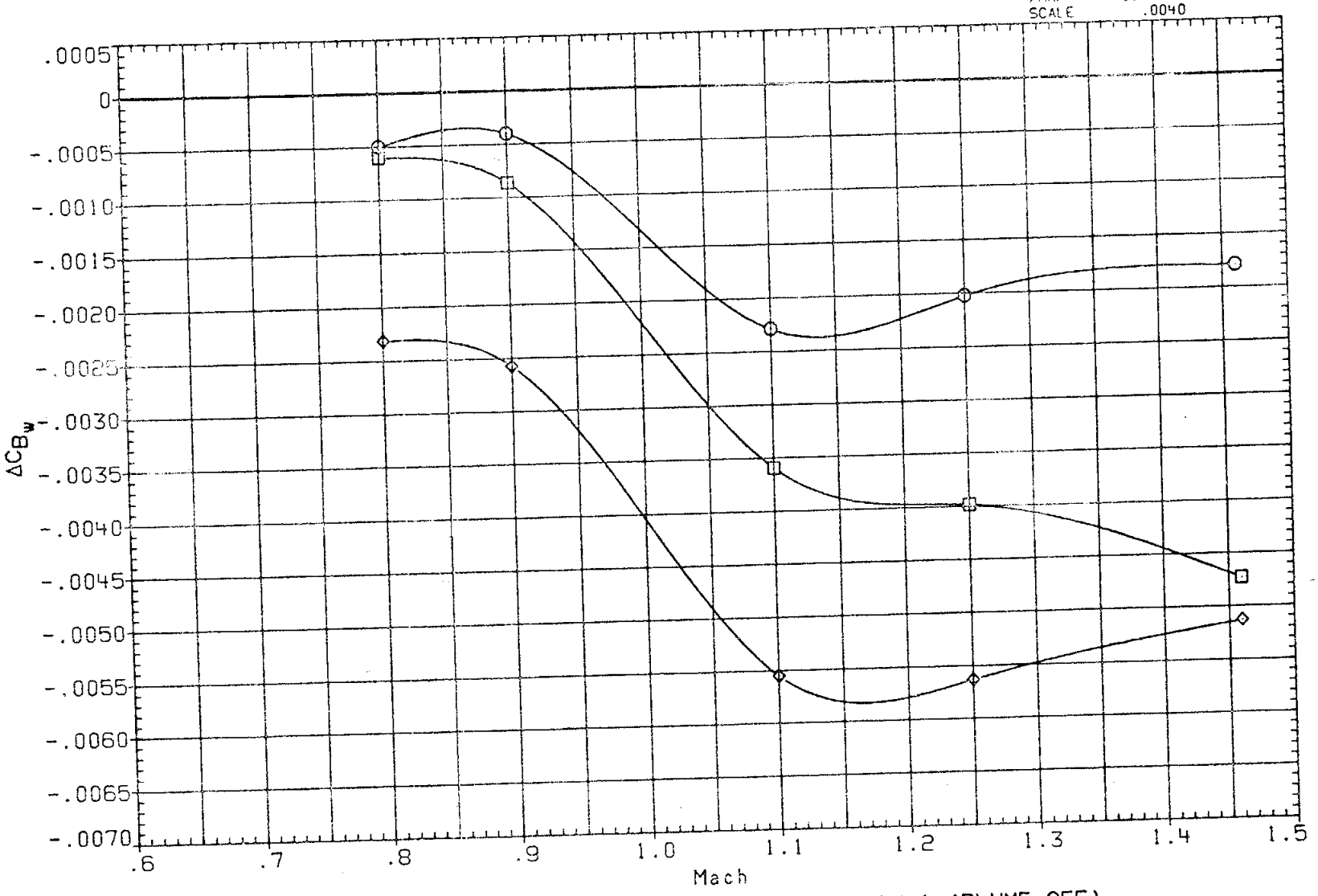

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6005	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

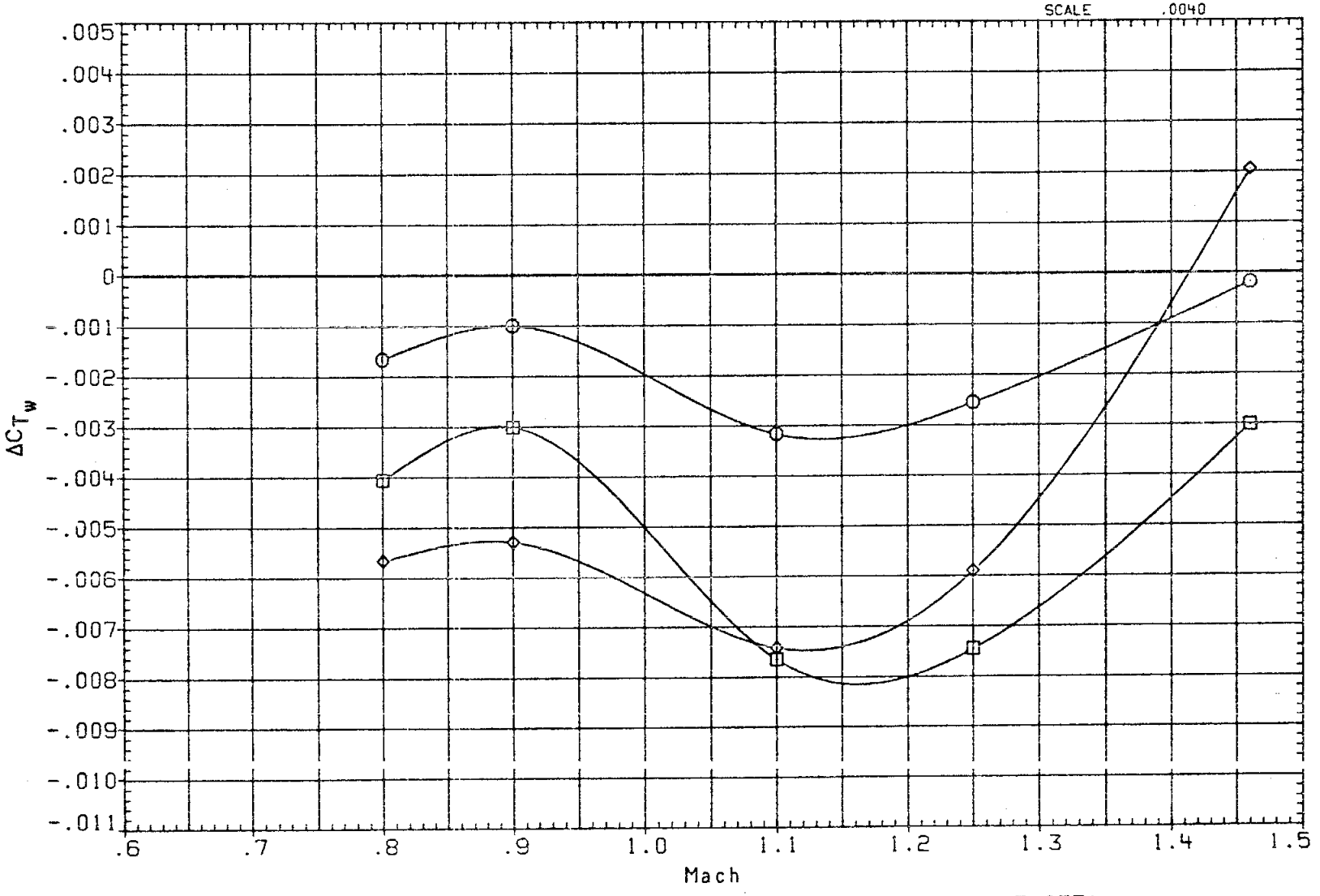

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6005	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

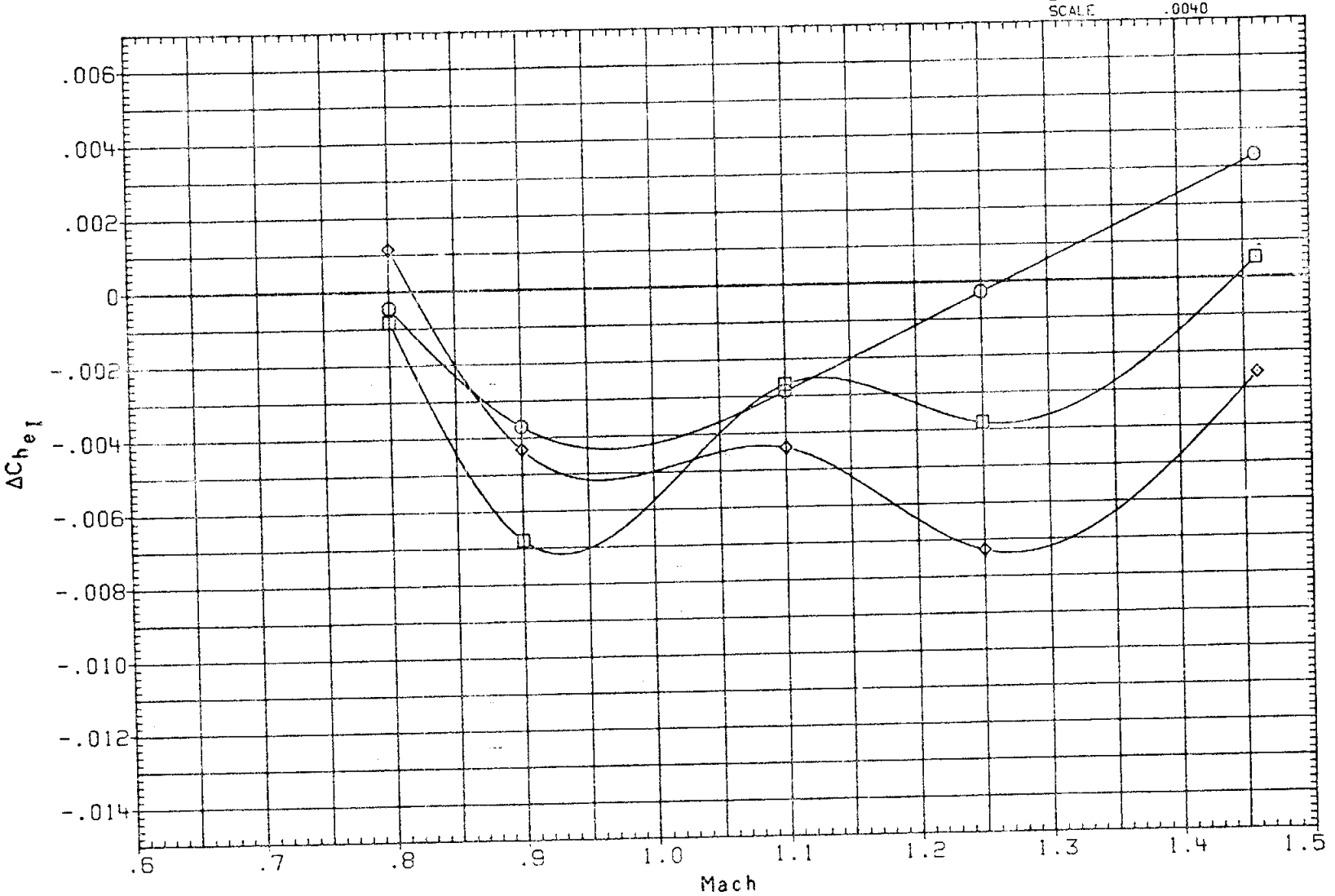

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6005	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

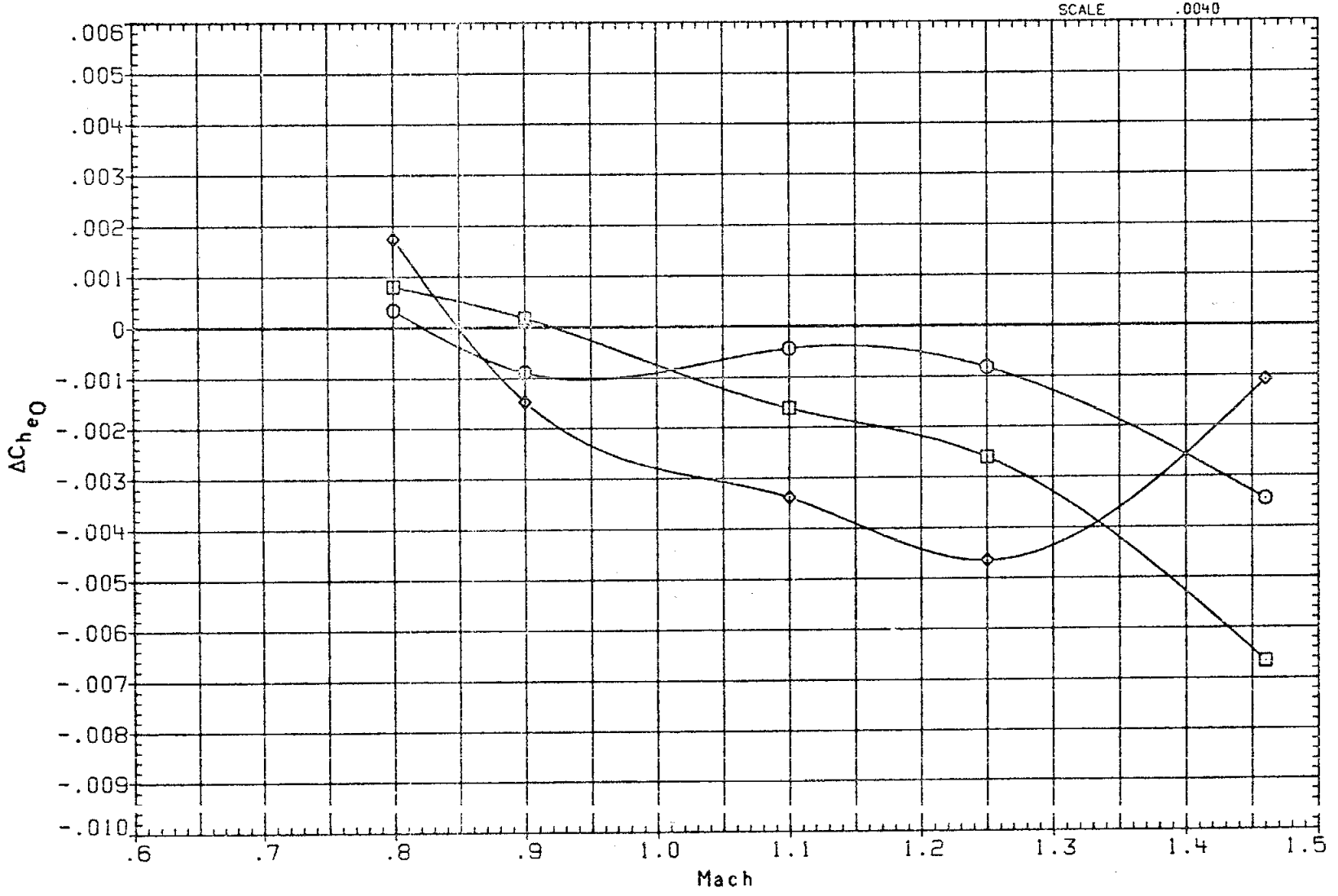

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6005	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

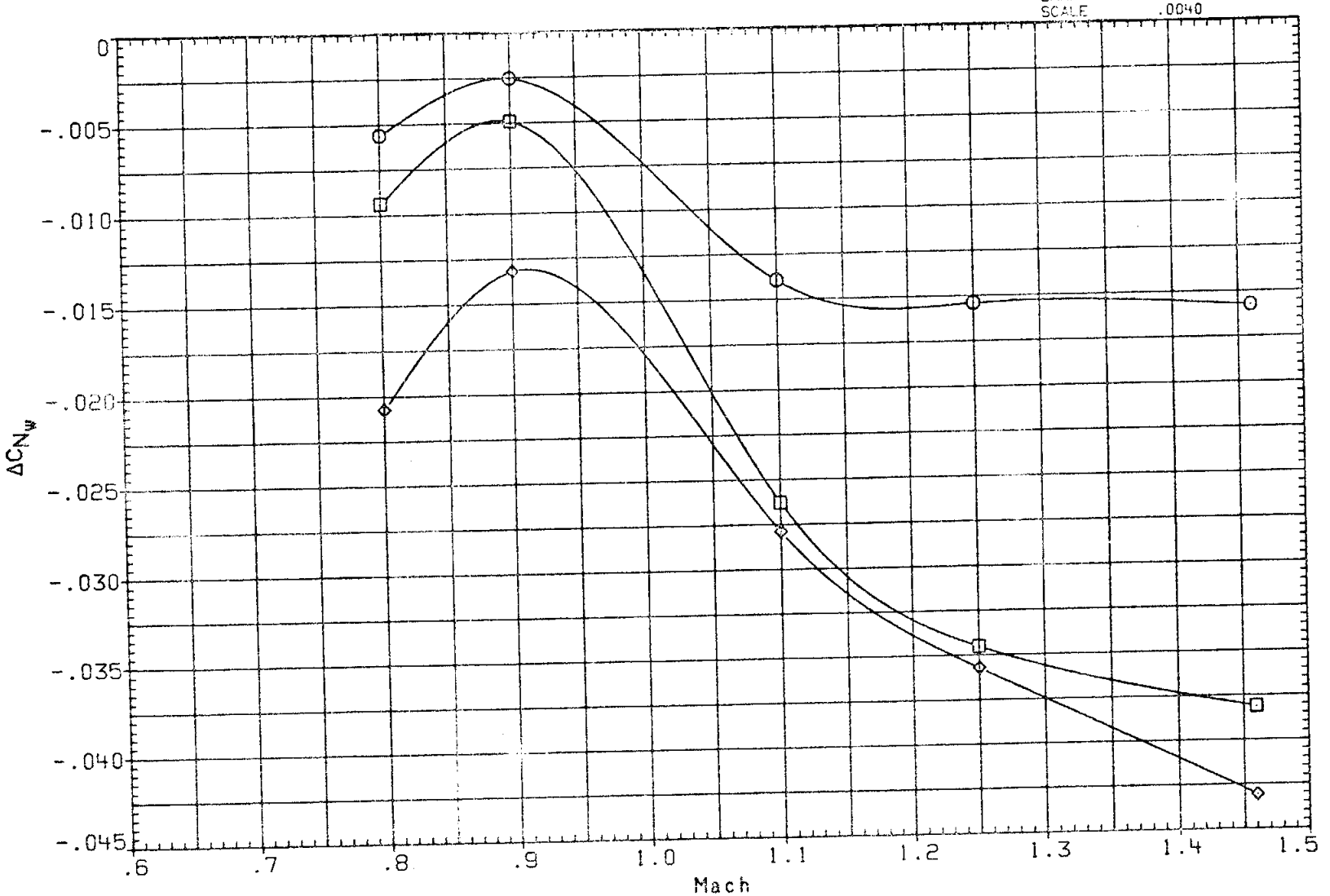

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA5002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6005	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	975.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

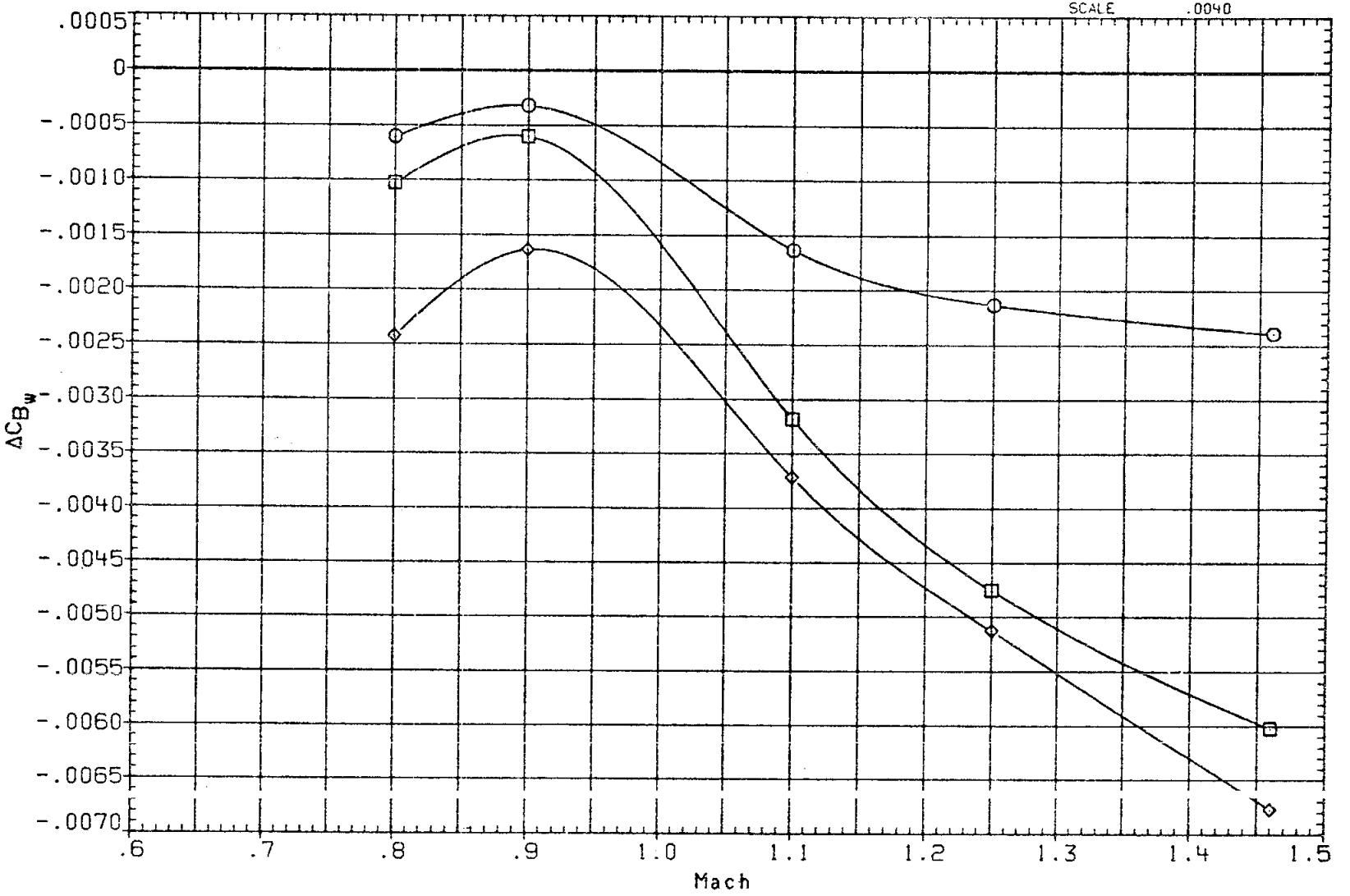

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6005	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

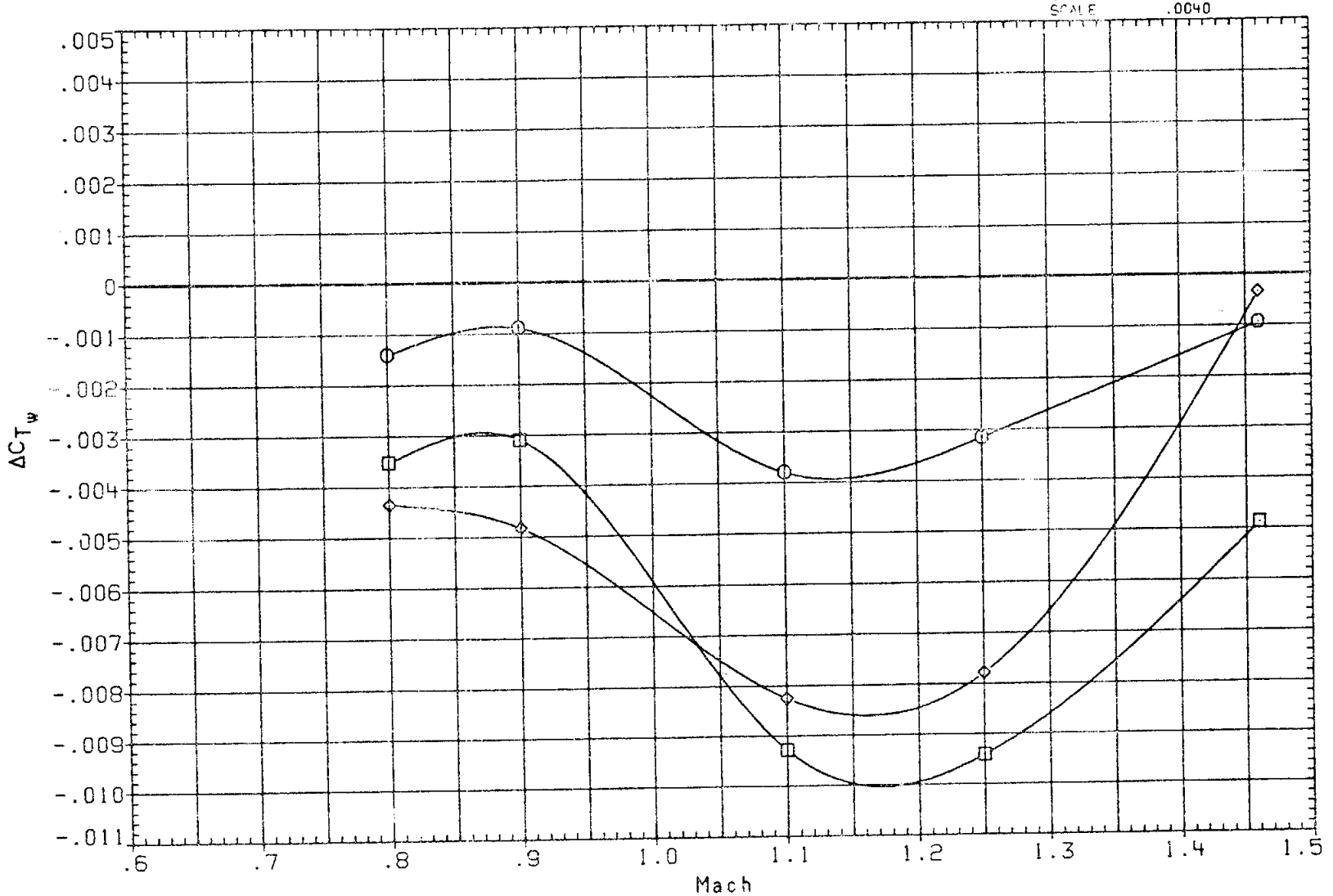

FIG. 11 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
AA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
AA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
AA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

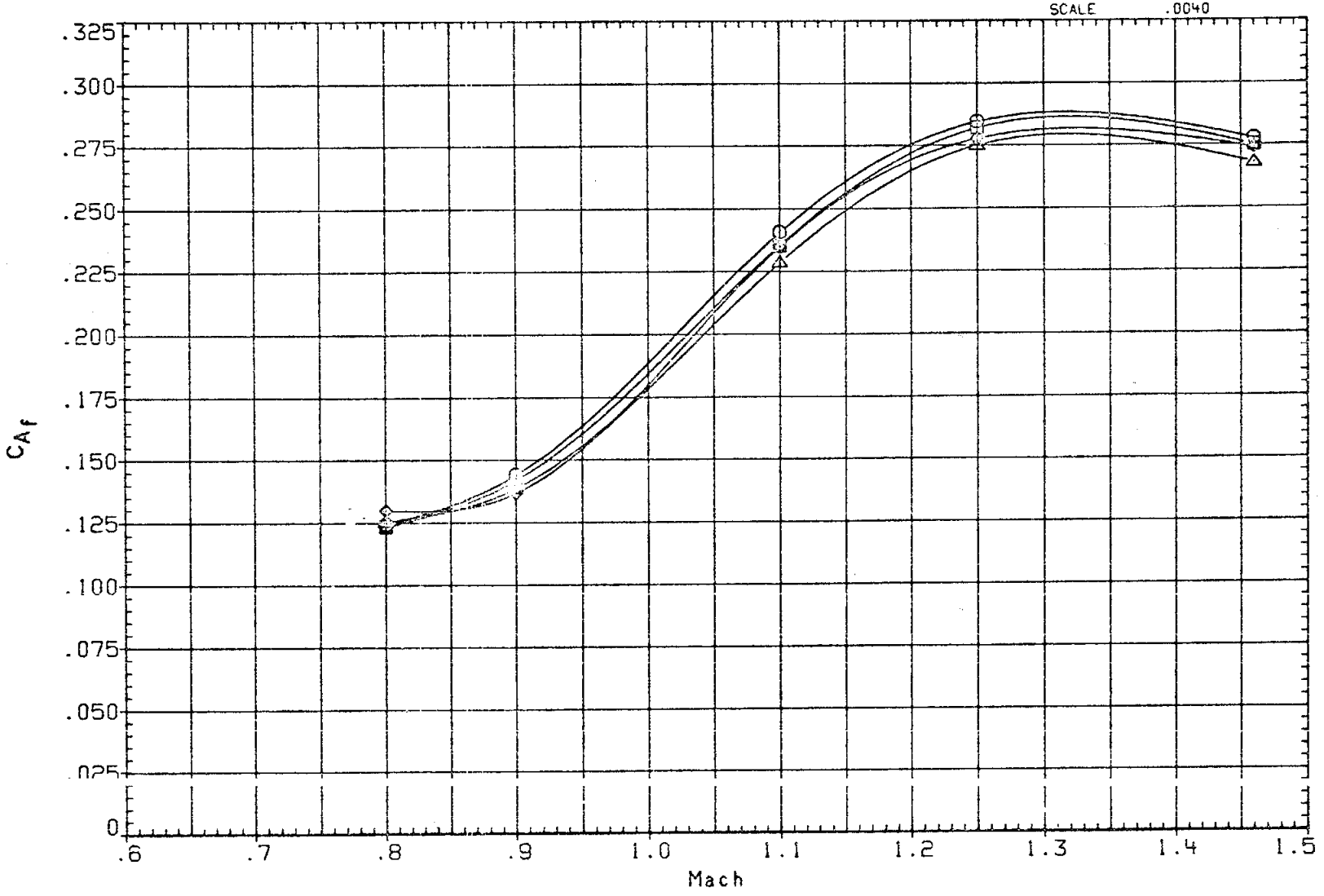

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6003	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6005	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

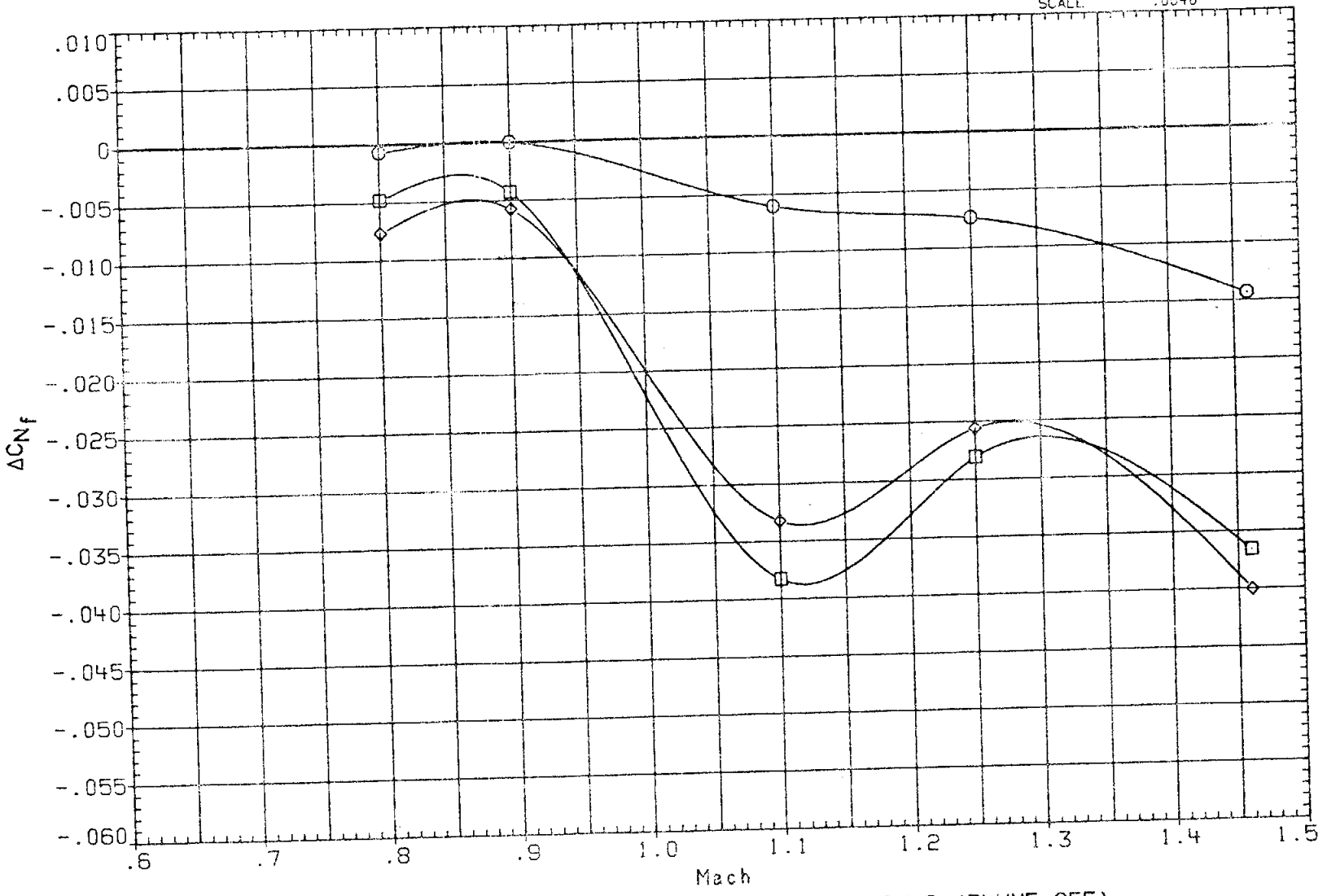

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6003	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

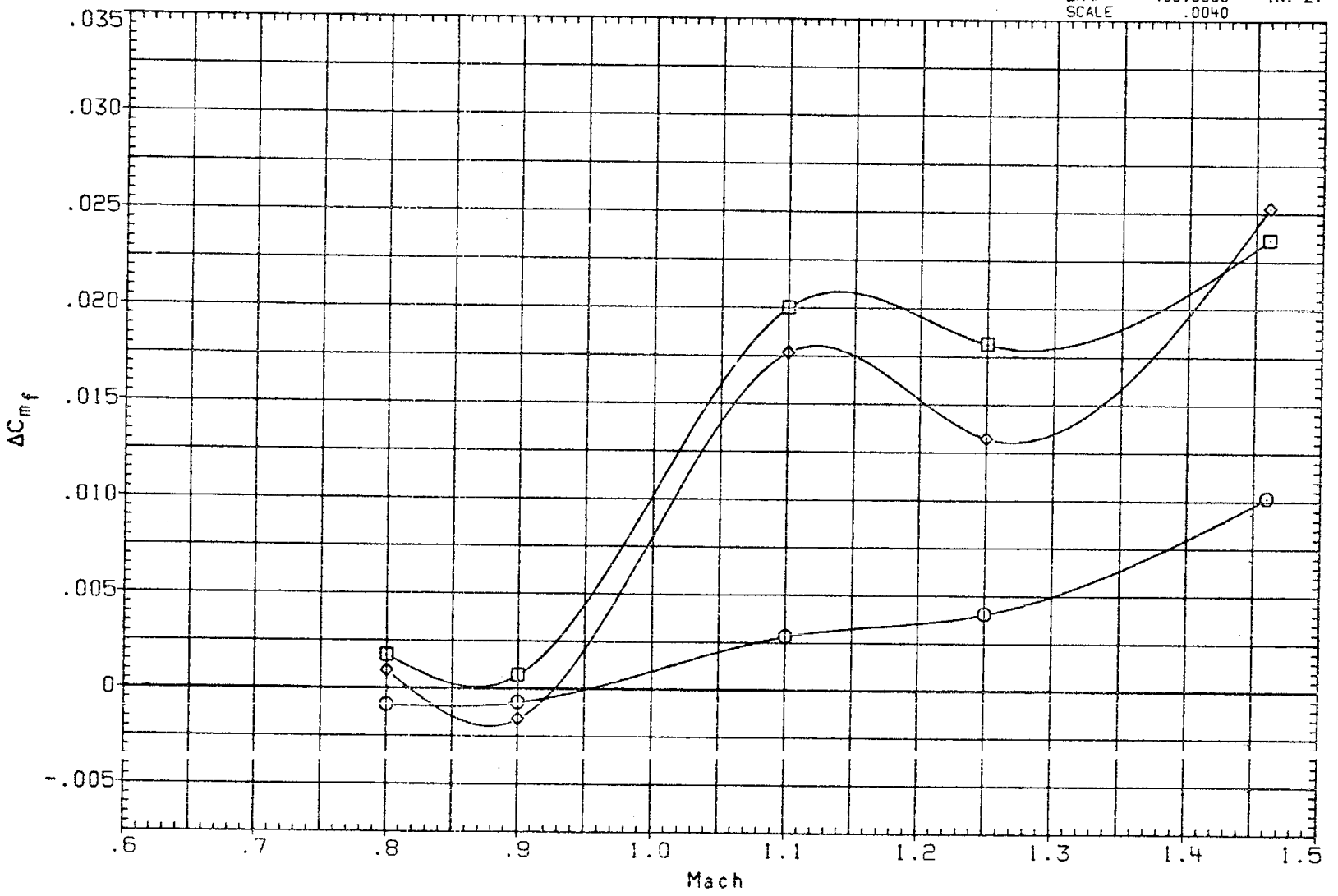

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
AA6003	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
AA6005	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
AA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

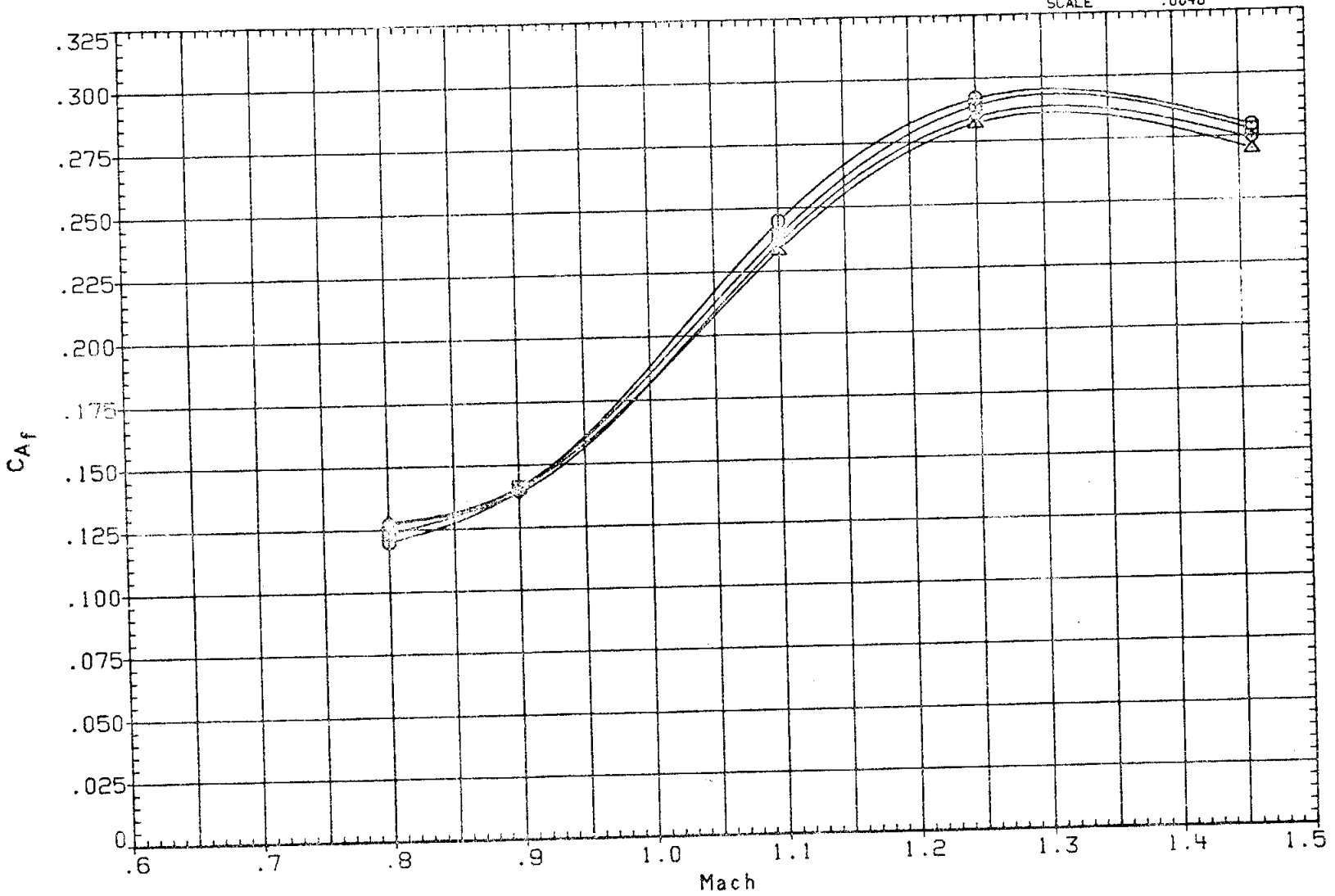

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A) ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6003	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

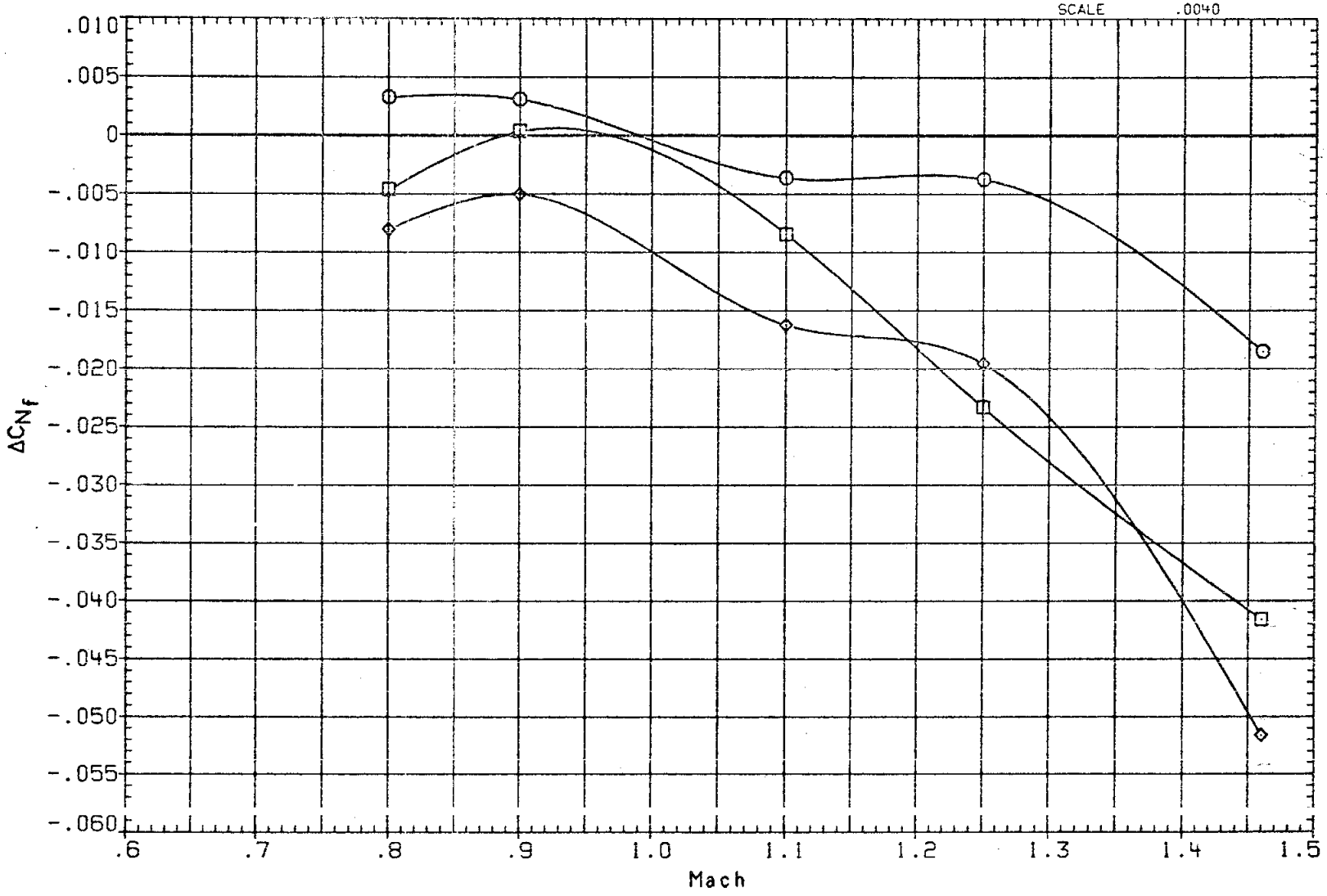

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6003	○	OTS + 10 DEG.RAMP(POS.2).INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6006	□	OTS+OGIVE FAIRING(POS.2).INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6008	◇	OTS + LARGE FAIRING. INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

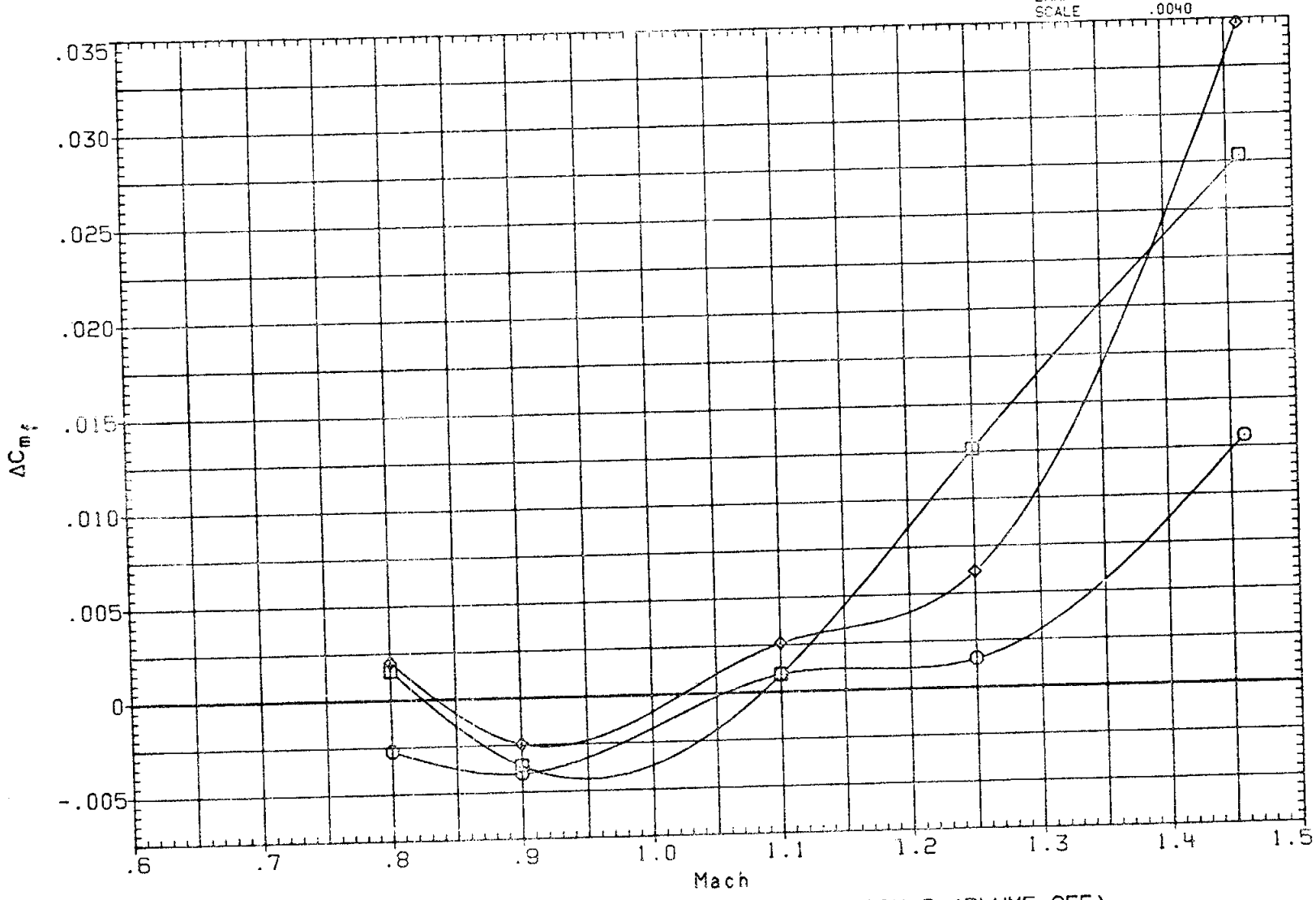

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6003	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

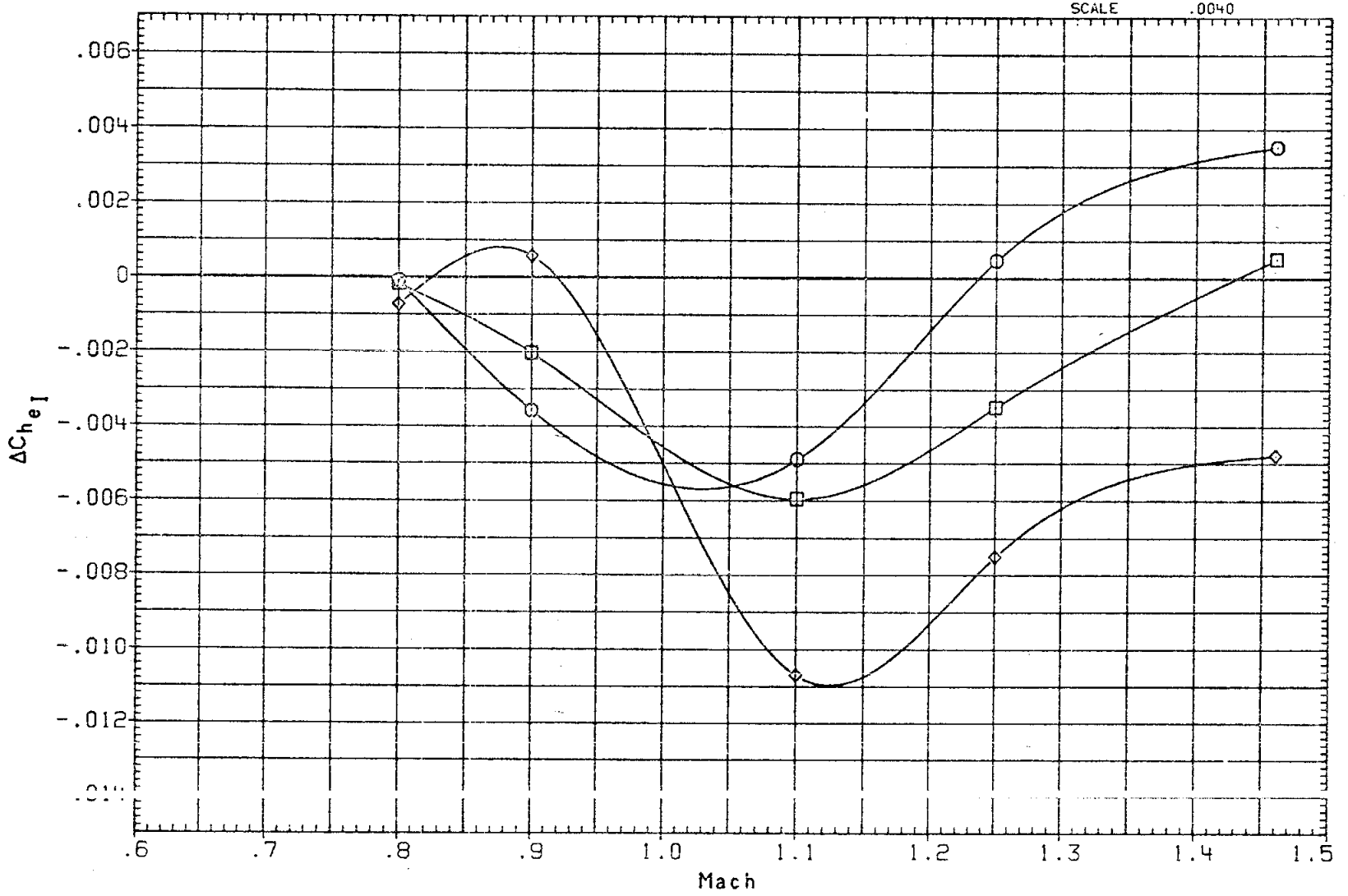

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6003	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

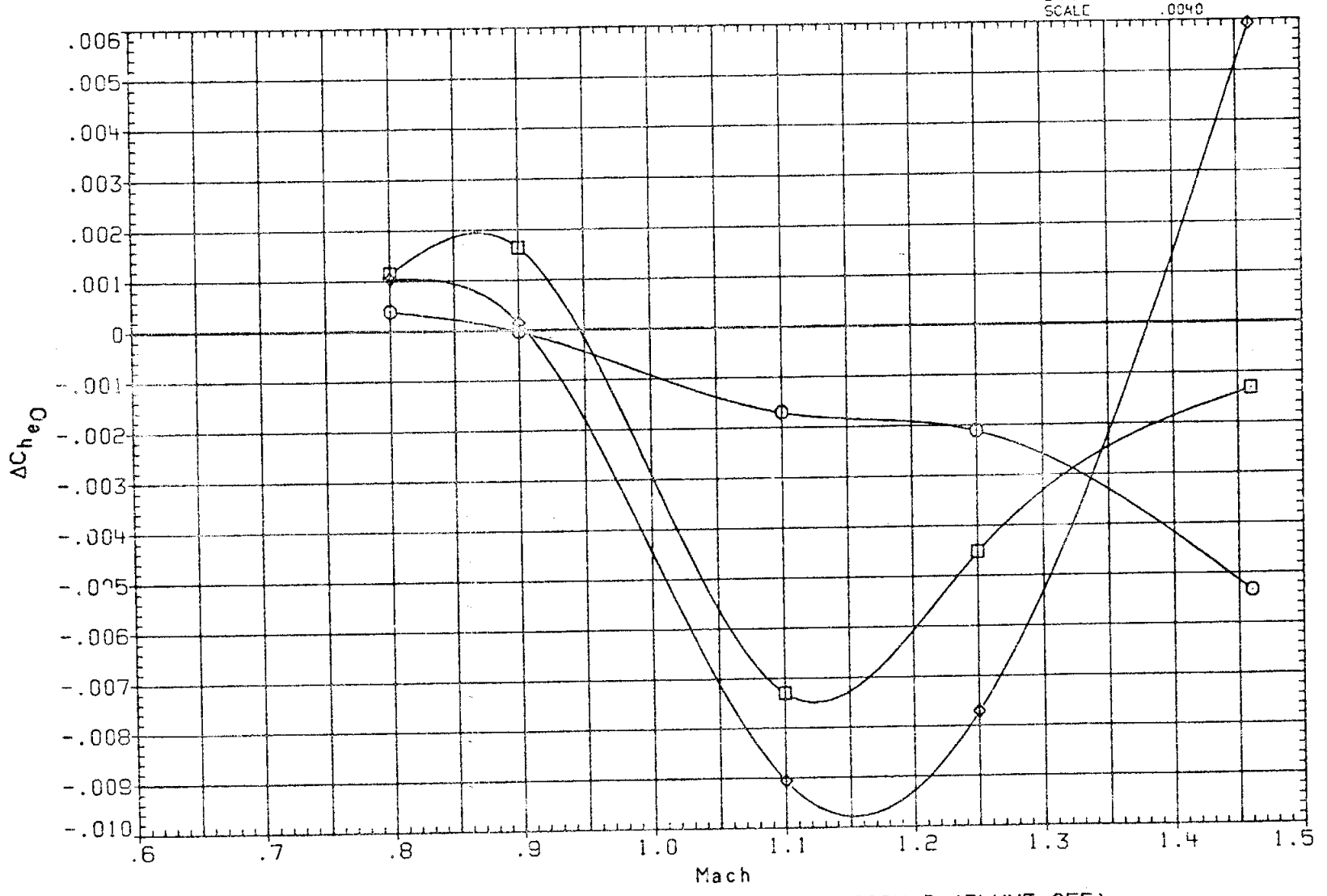

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6003	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

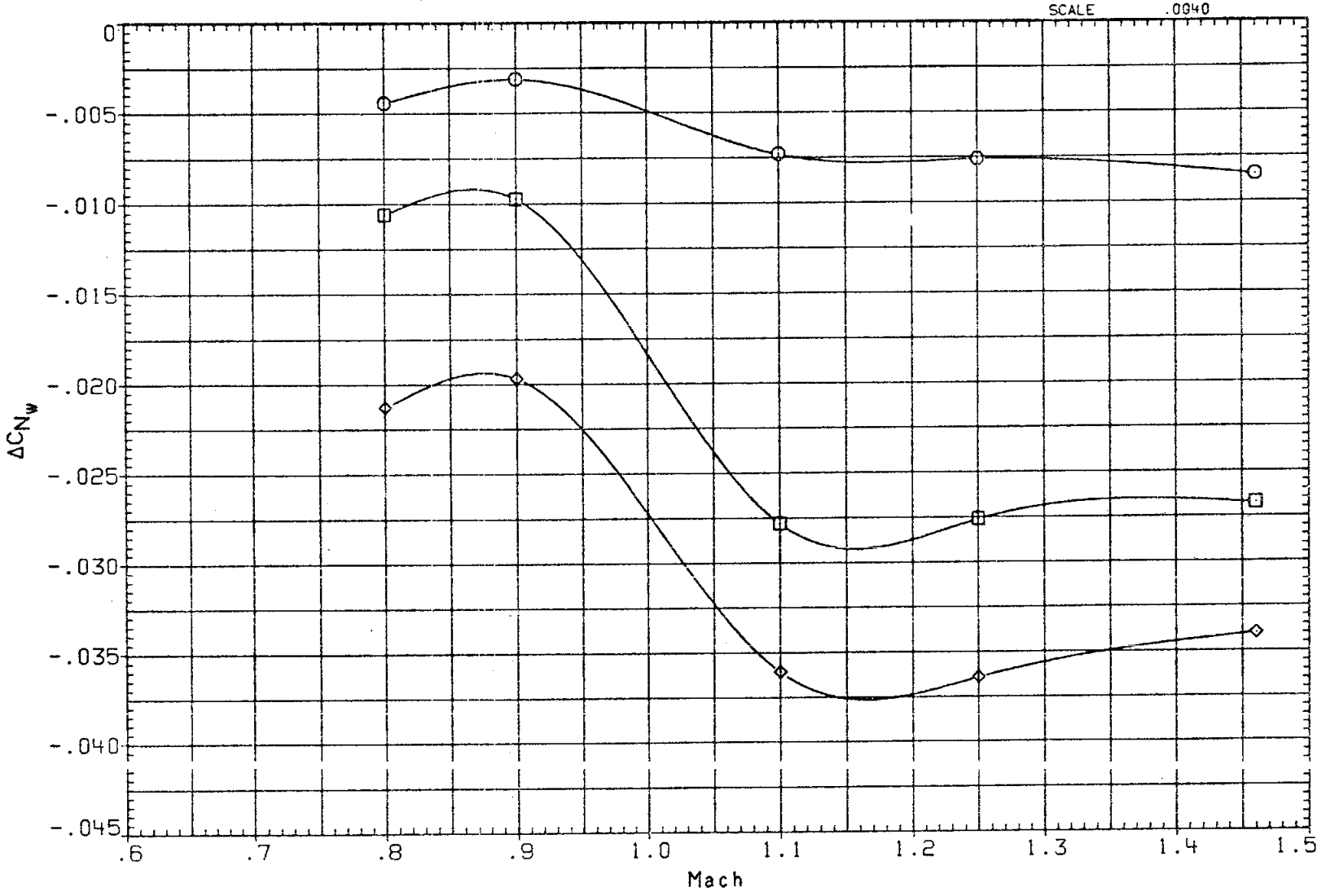

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6003	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

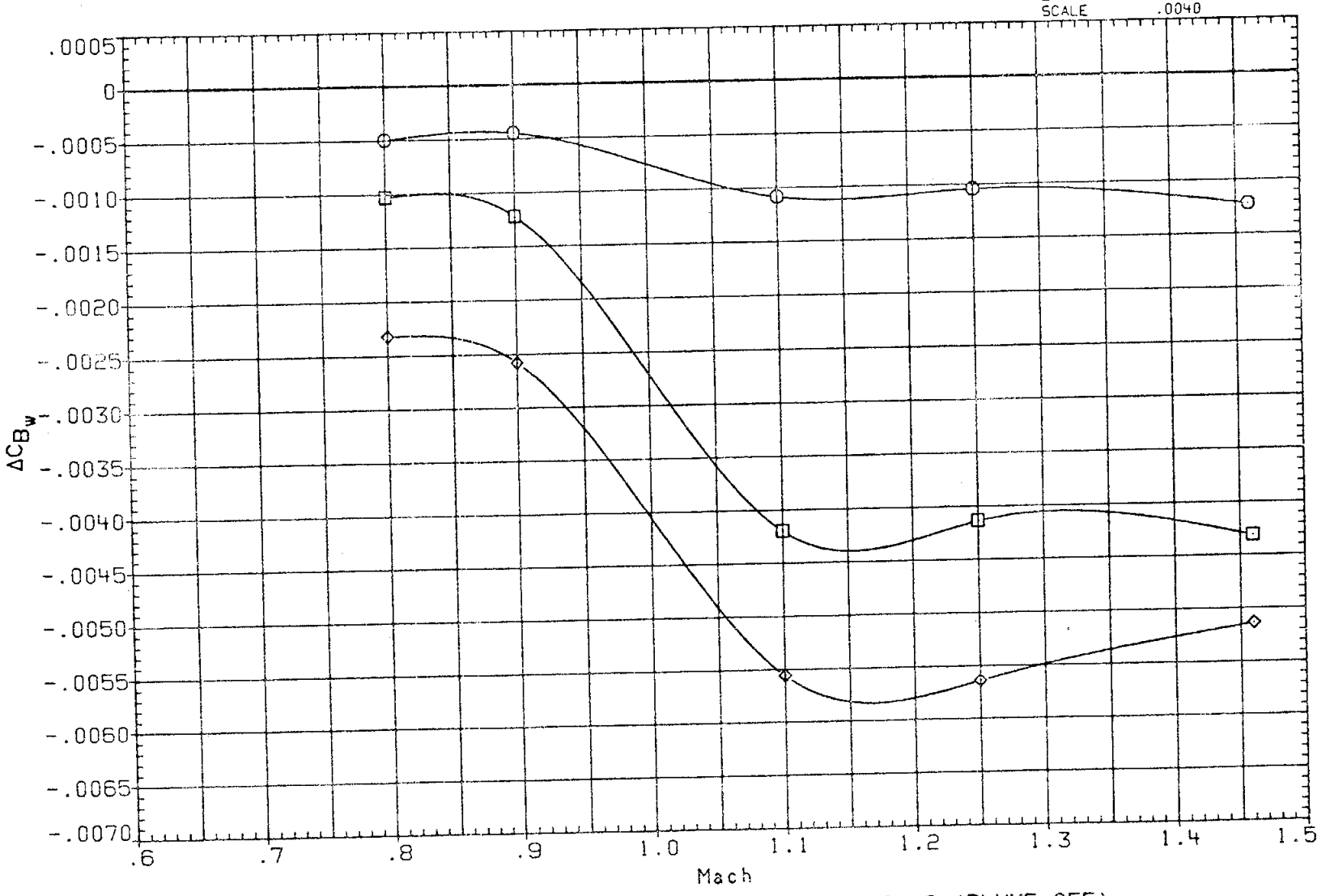

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6003	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

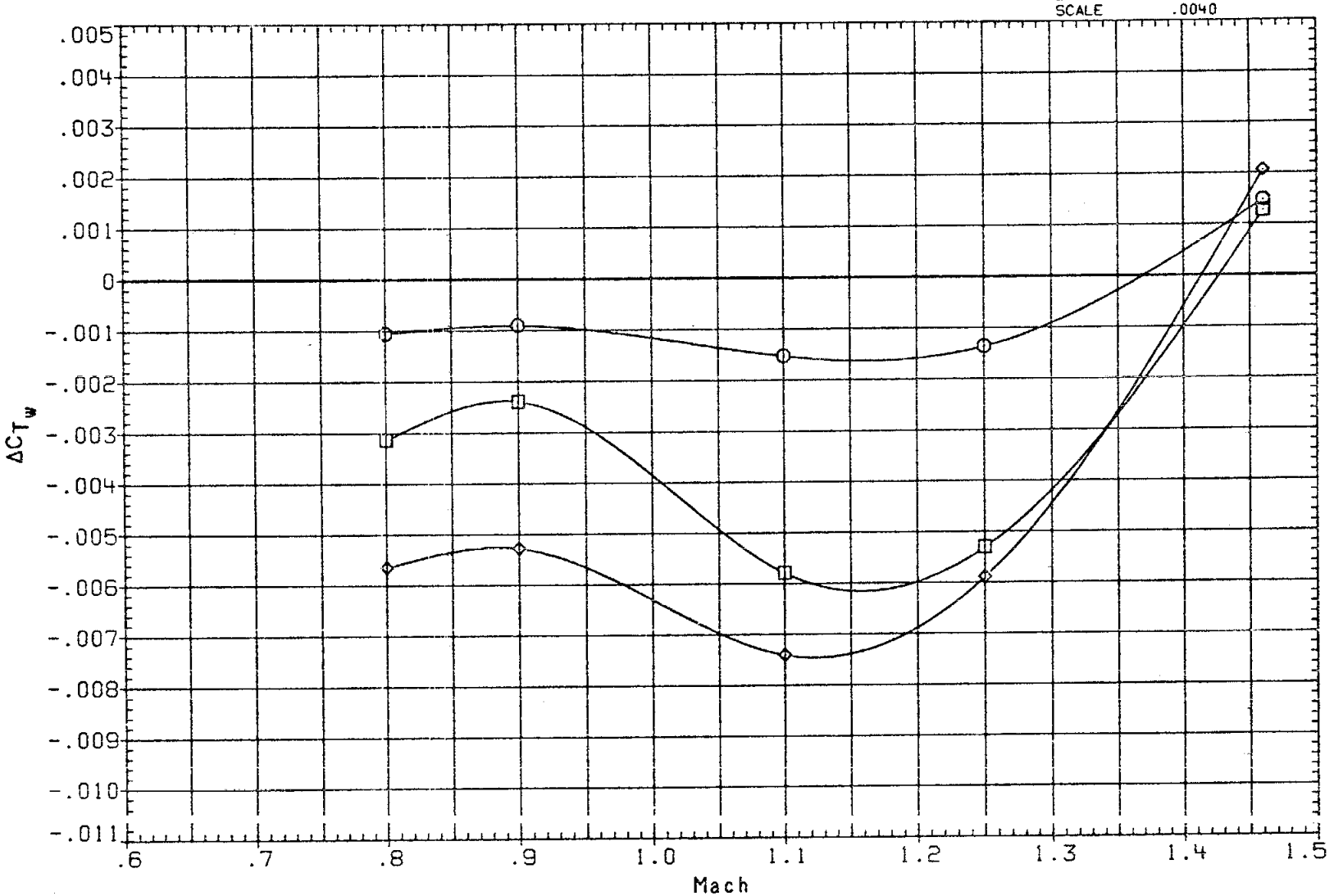

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6003	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6005	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

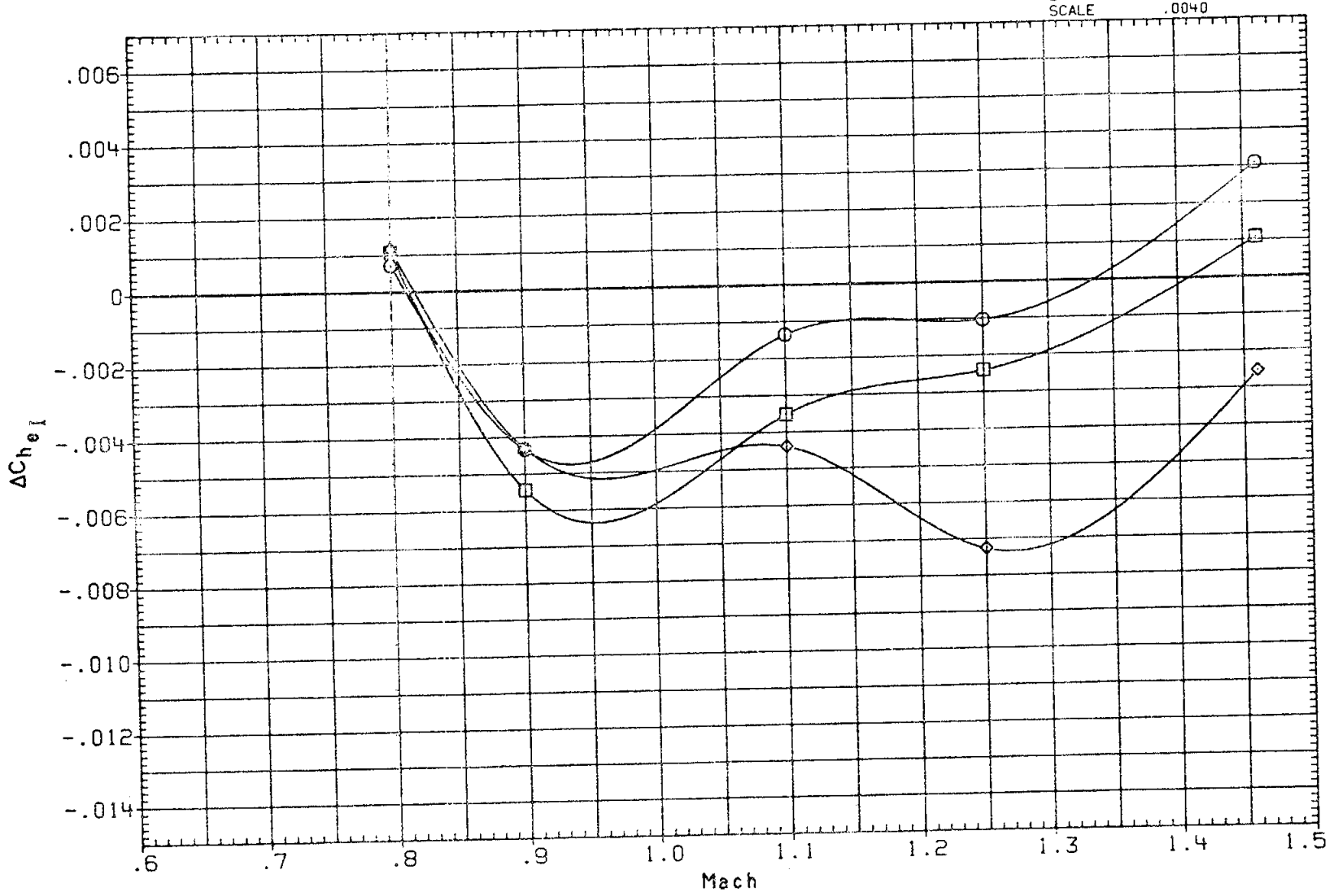

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6003	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

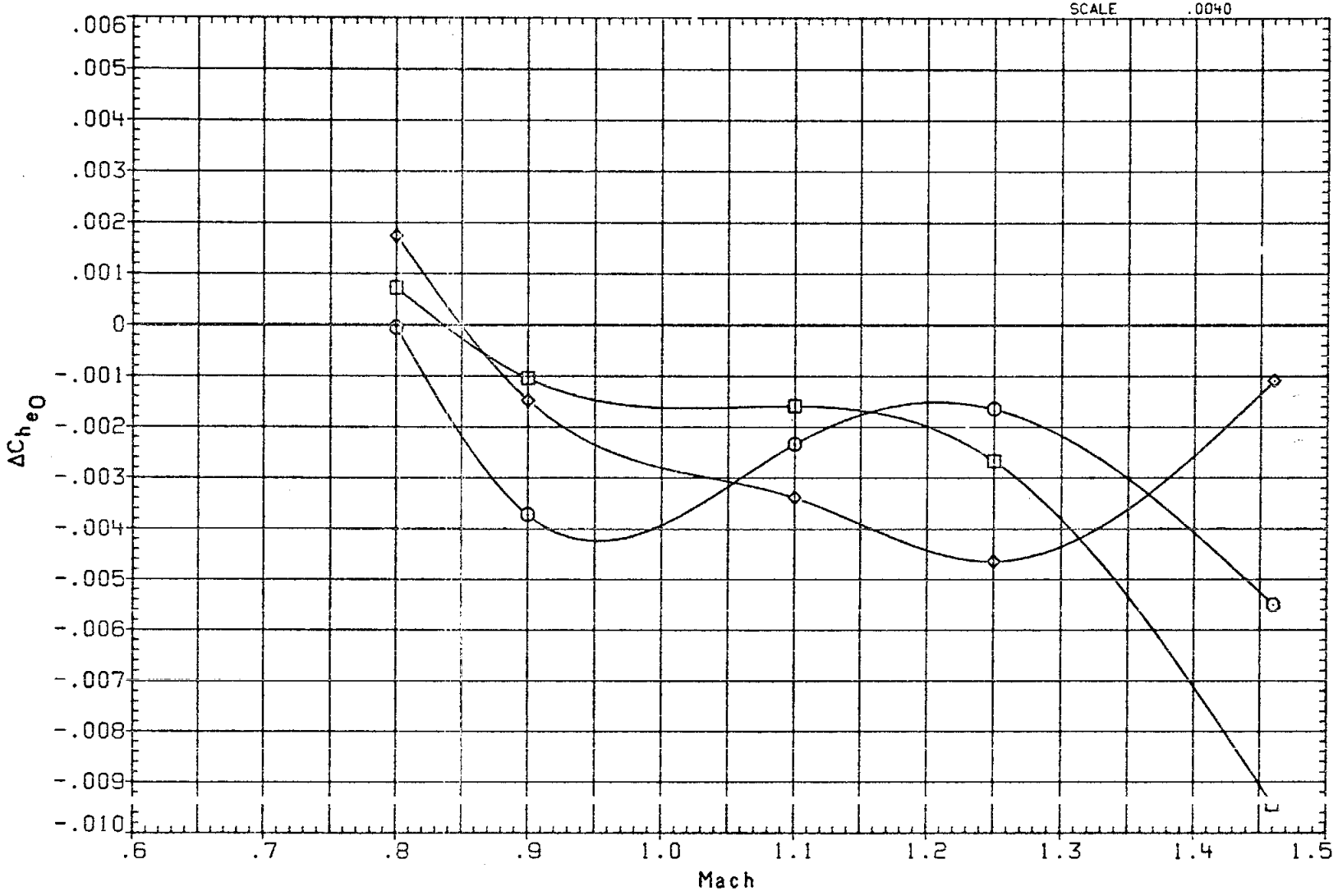

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6003	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

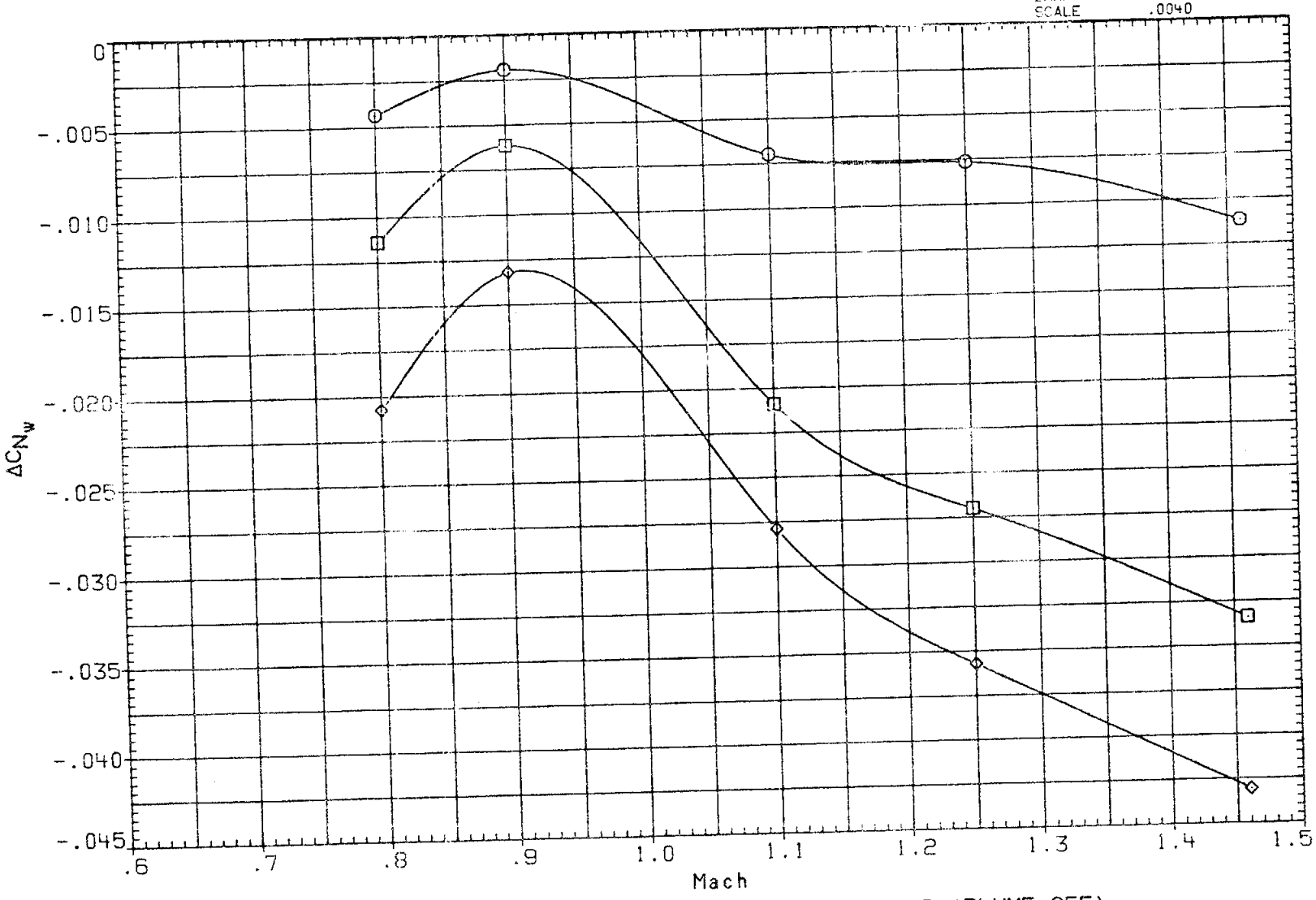

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6003	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

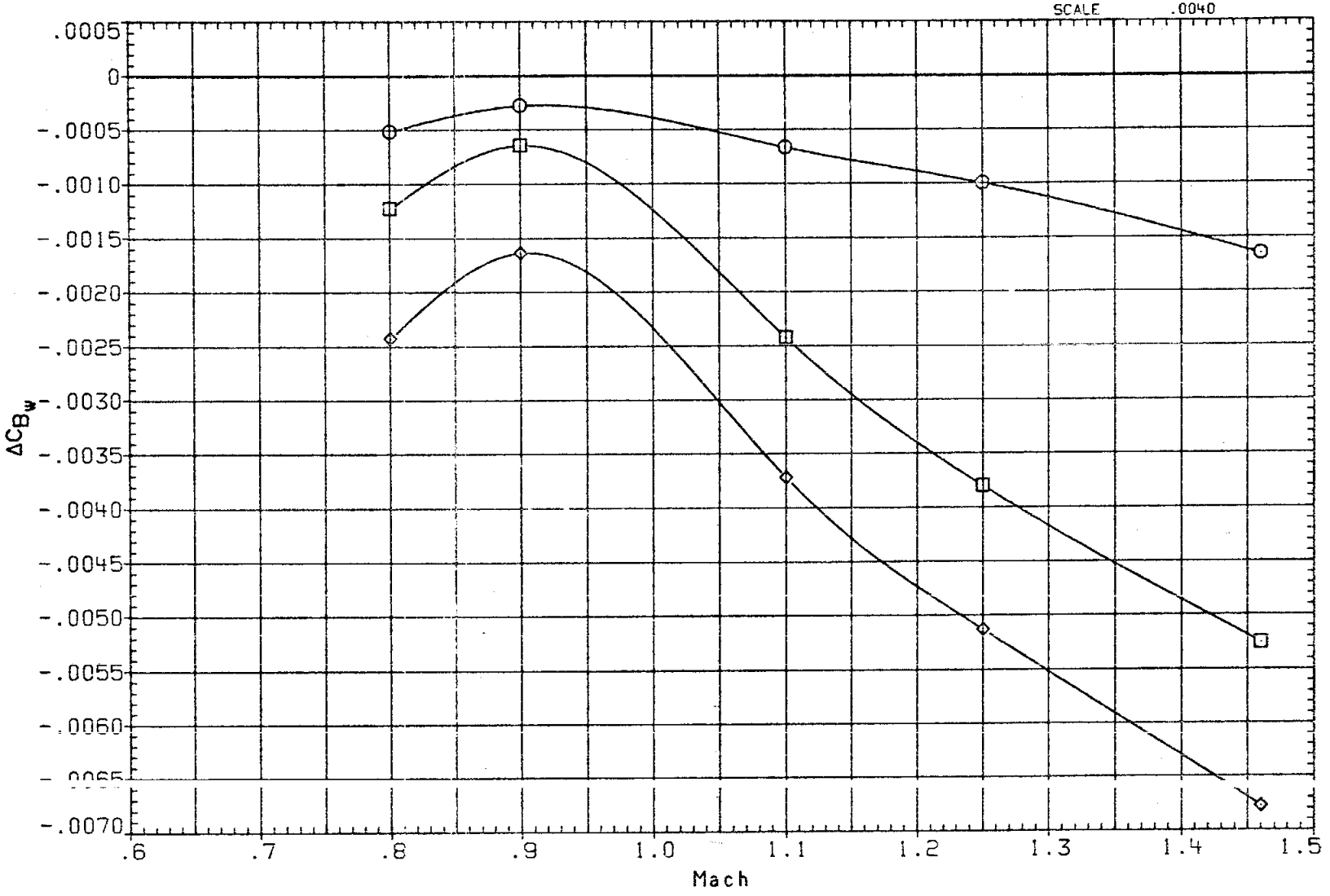

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6003	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

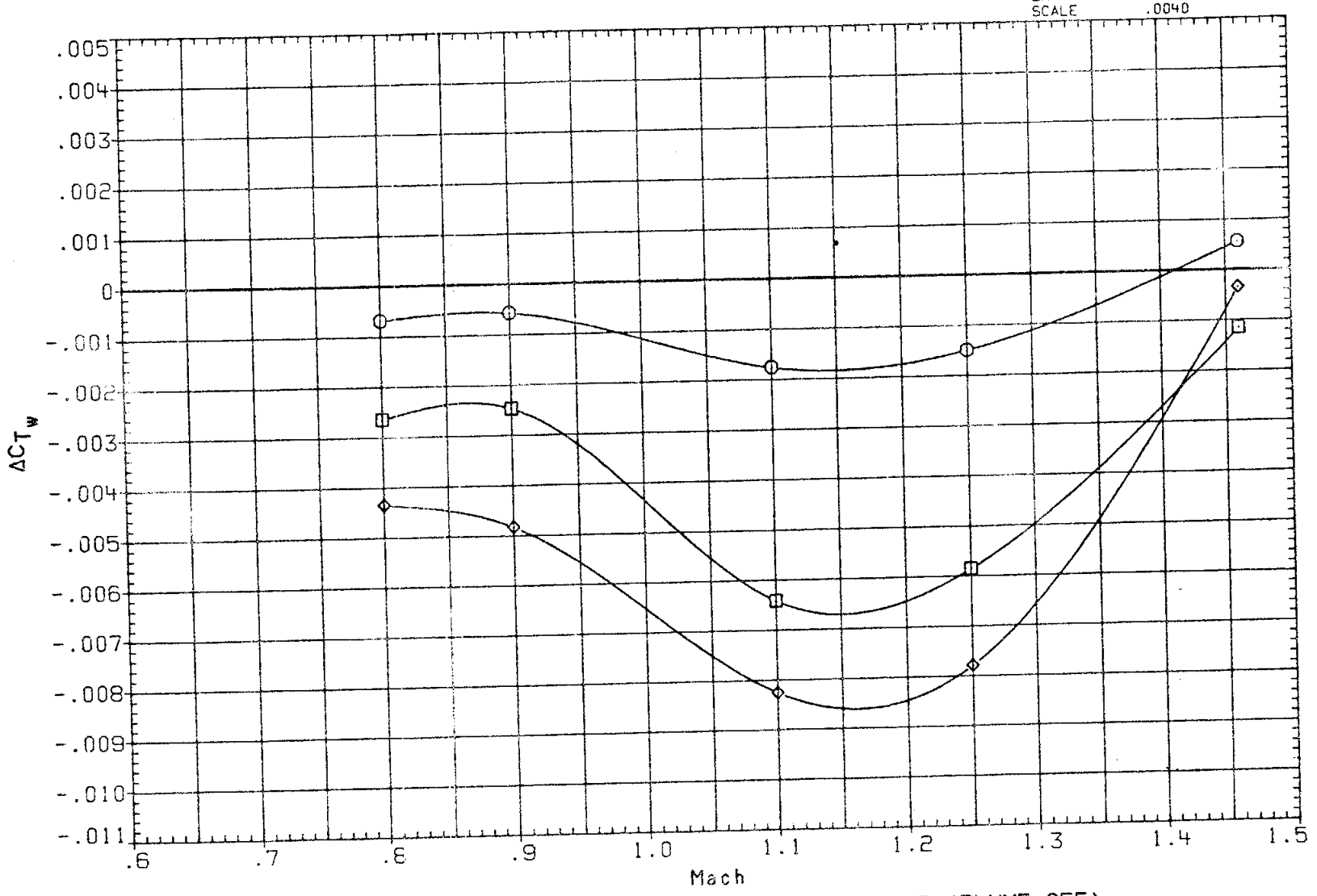

FIG. 12 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
AA6004	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
AA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
AA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

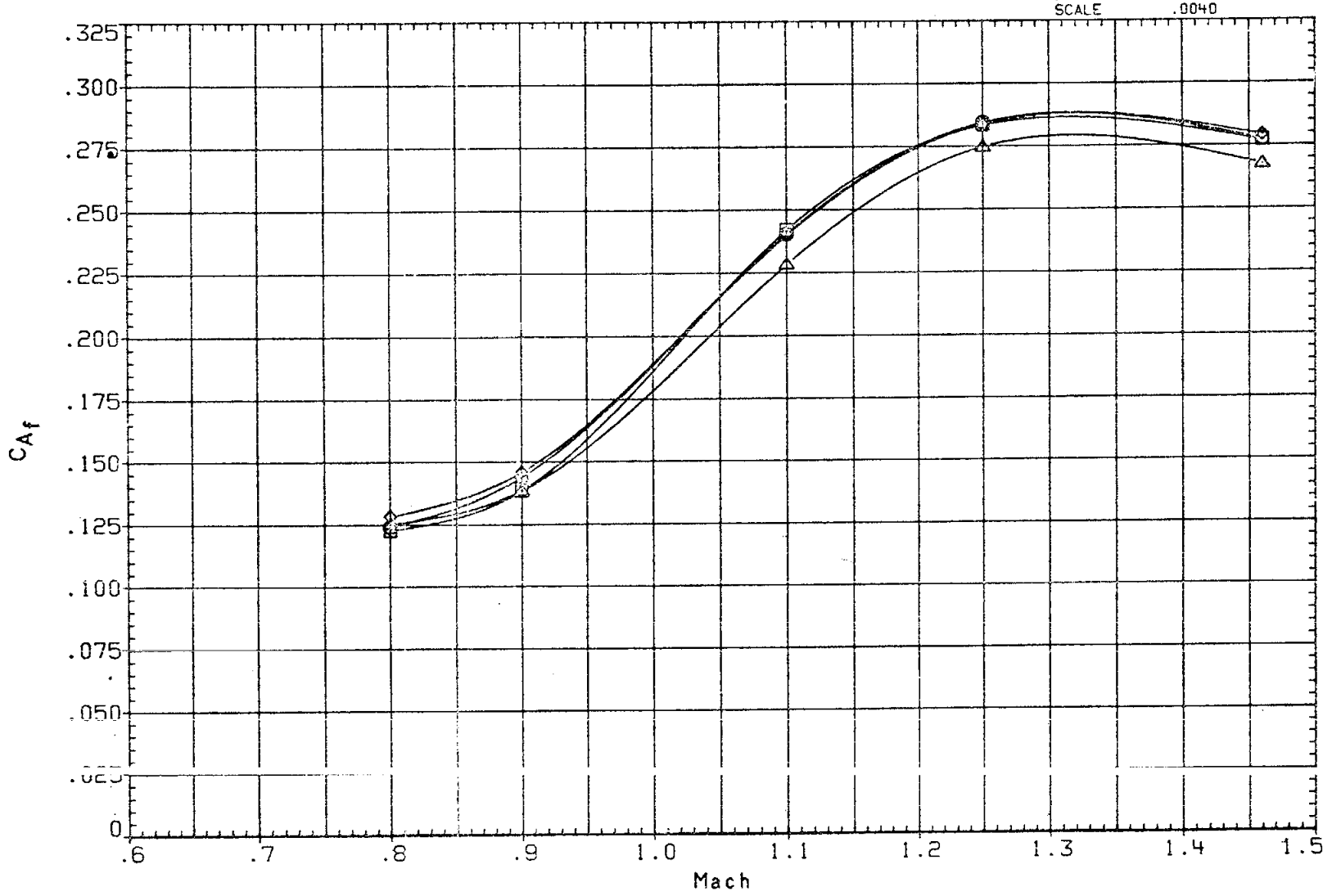

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6004	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS-	.000	10.000	5.000	OFF
JA6007	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS-	.000	10.000	5.000	OFF
JA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS -	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

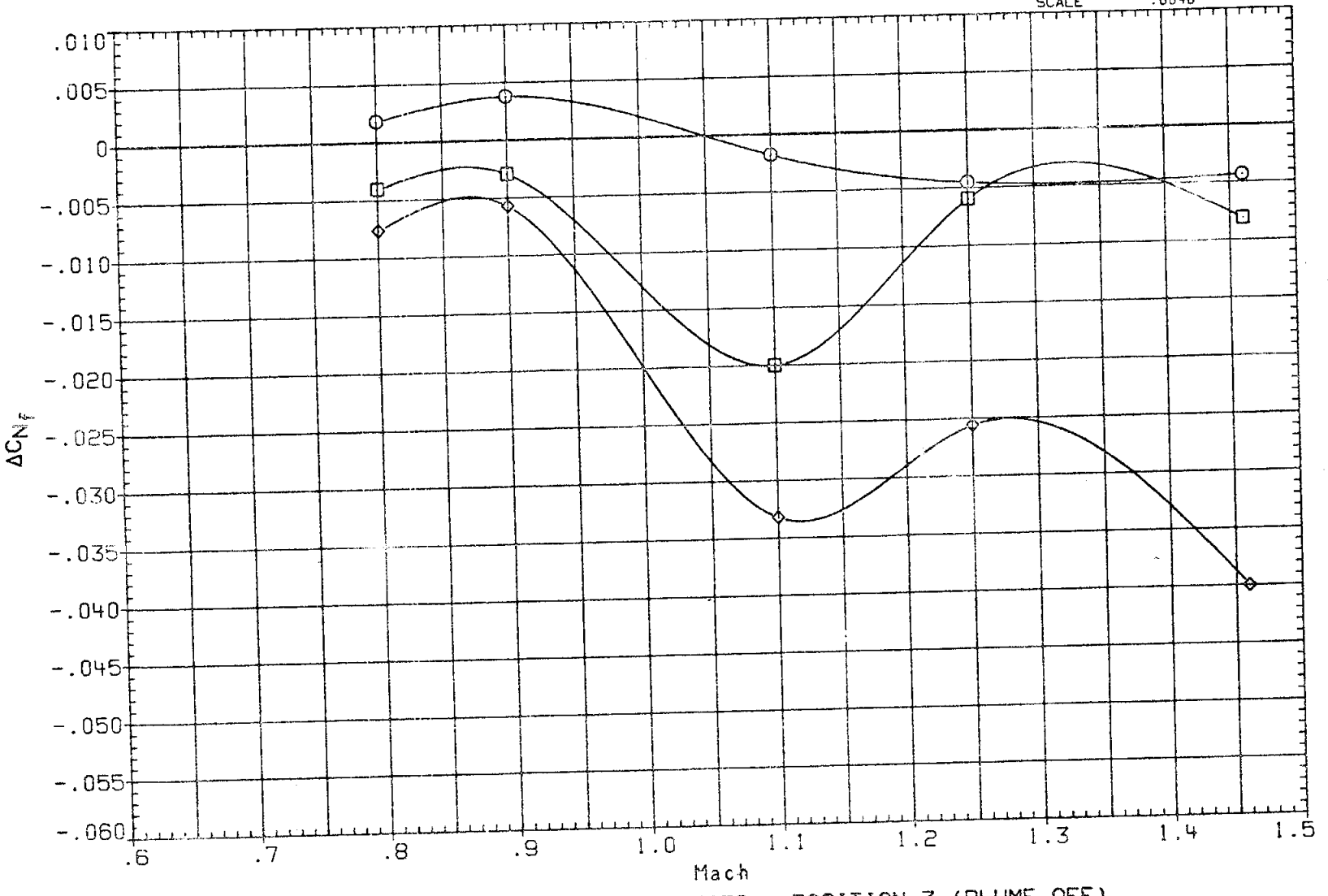

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6004	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6007	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

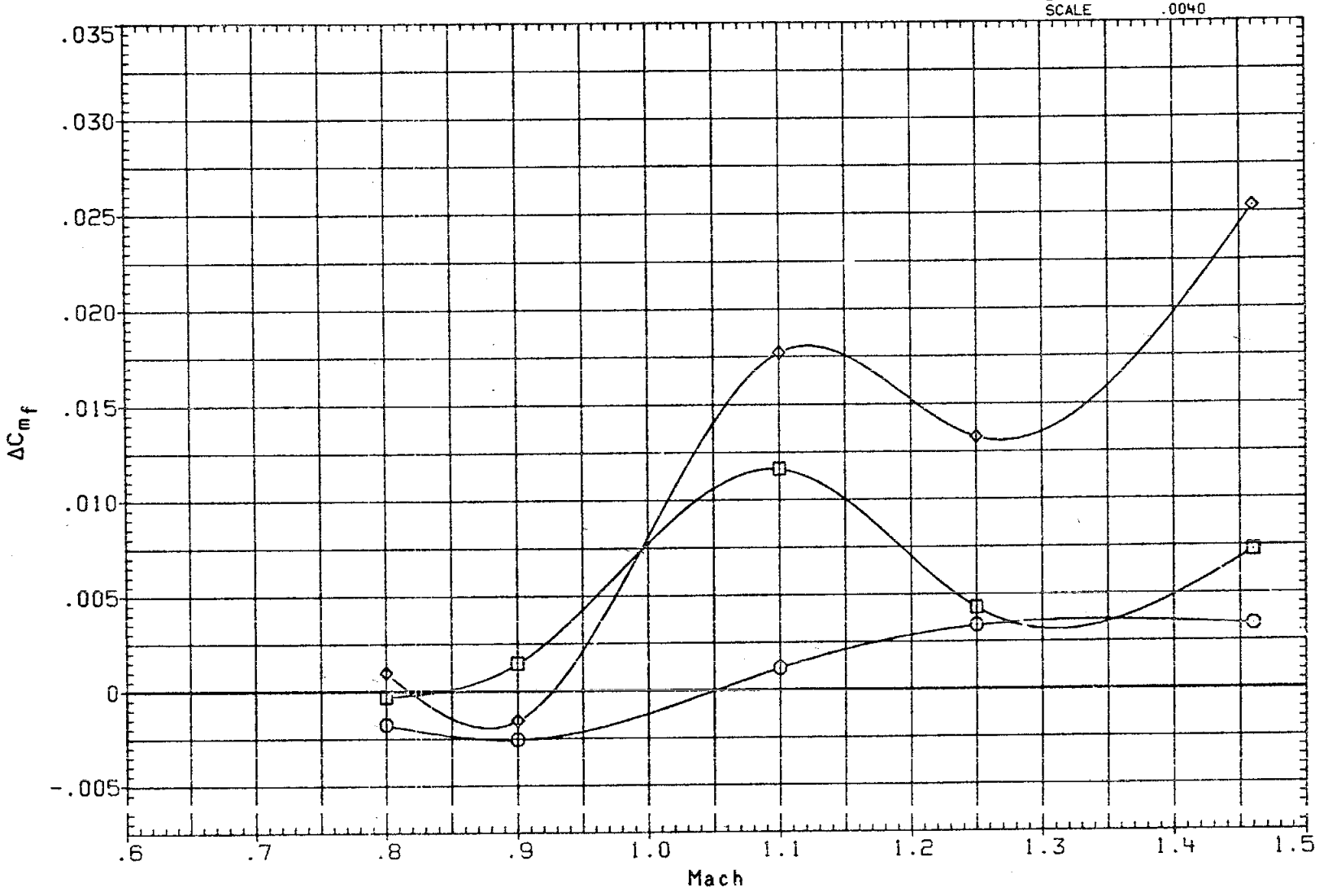

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
AA6004	□	MSFC TWT 692,OTS + 10 DEG RAMP POS.3)- PLUME OFF	.000	10.000	5.000	OFF
AA6007	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF
AA6008	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

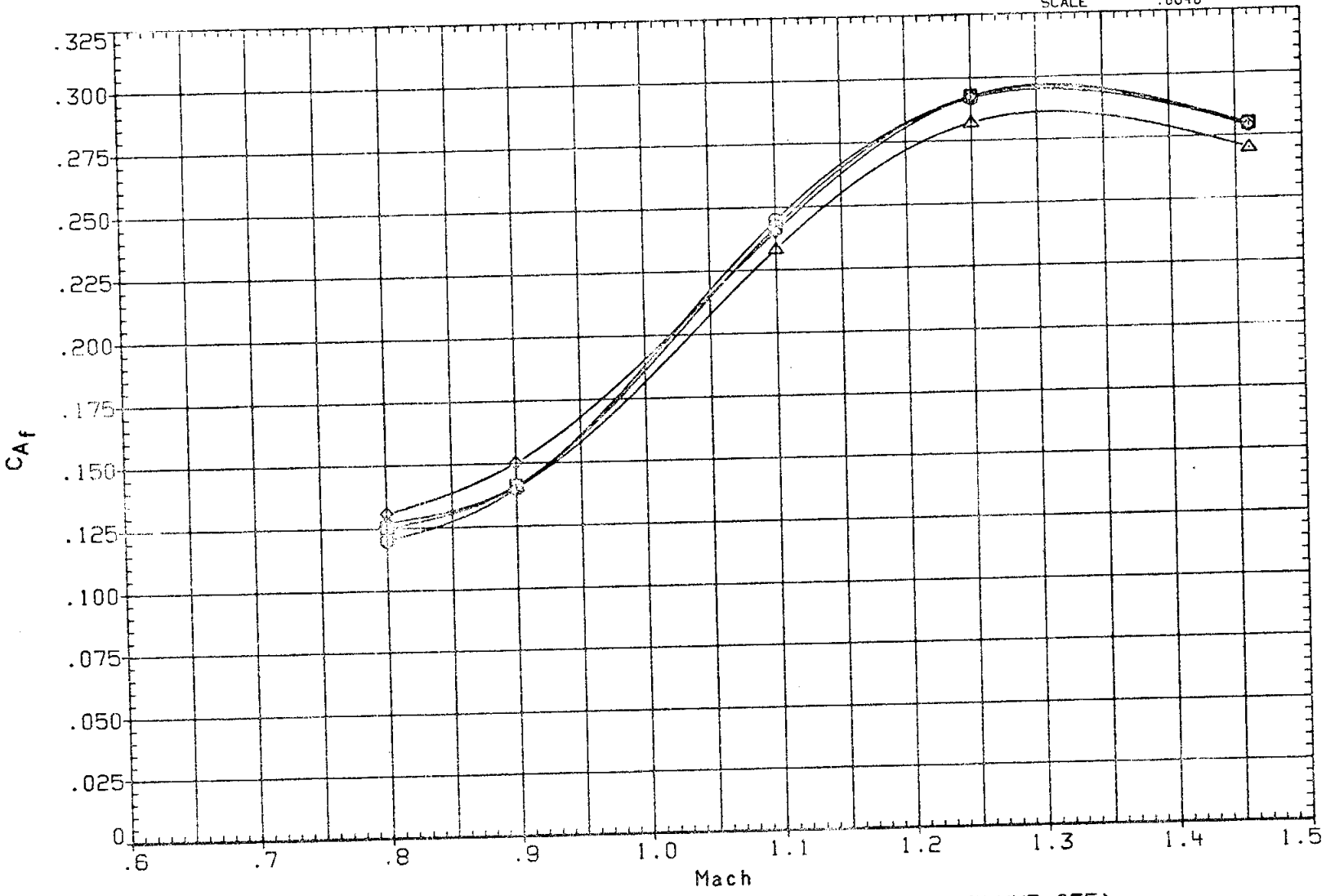

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6004	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6007	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

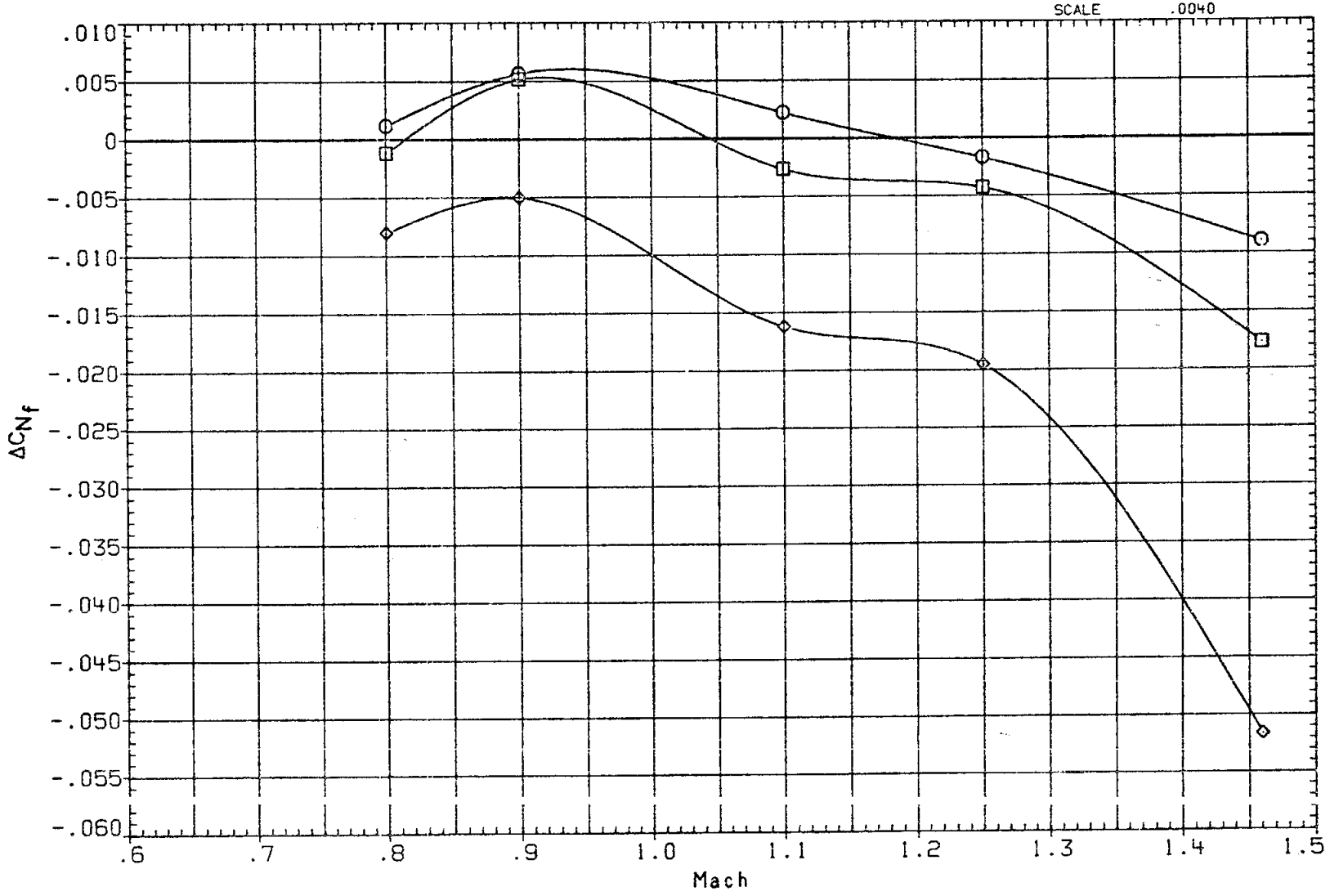

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6004	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6007	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

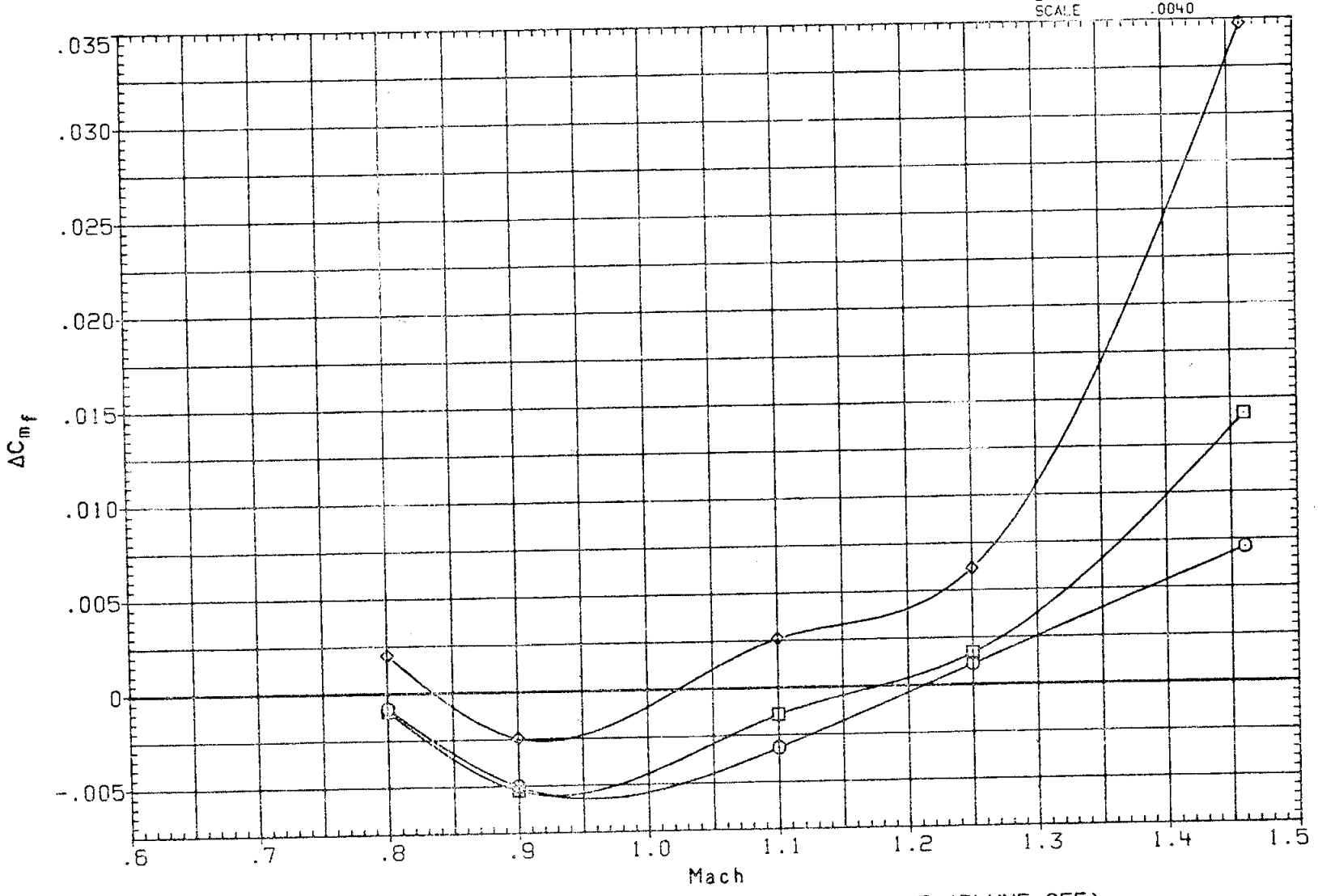

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6004	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

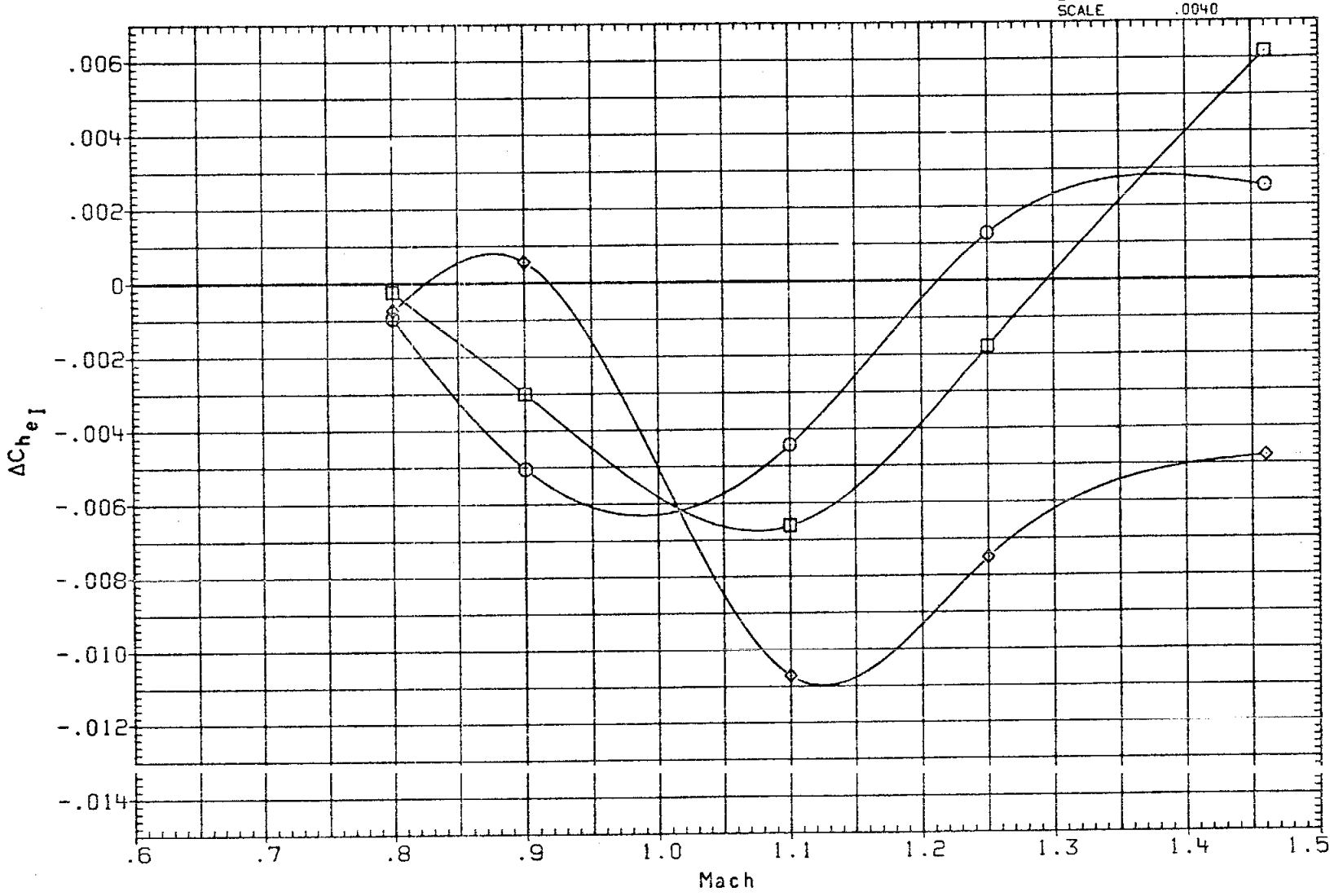

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6004	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

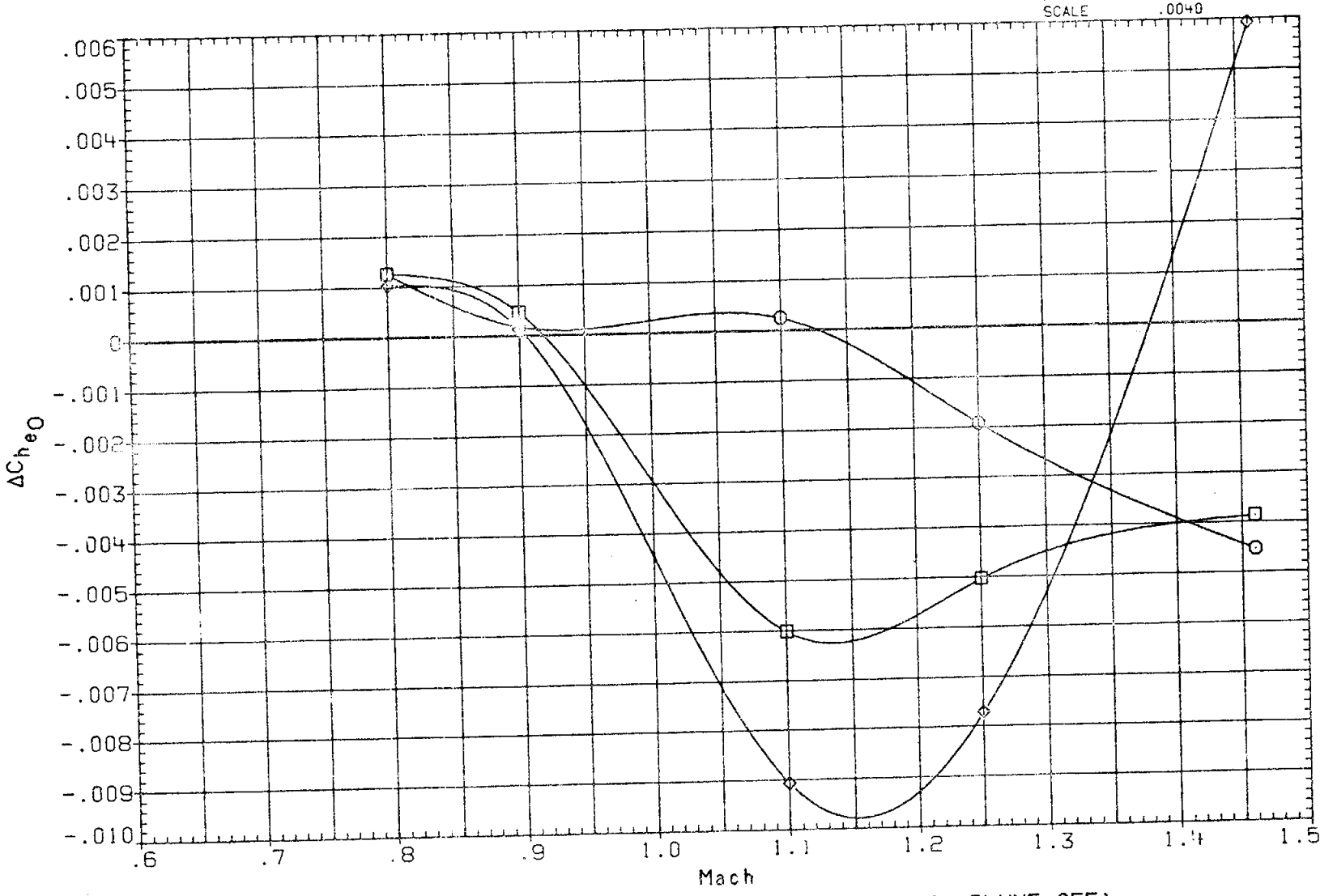

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6004	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA5007	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

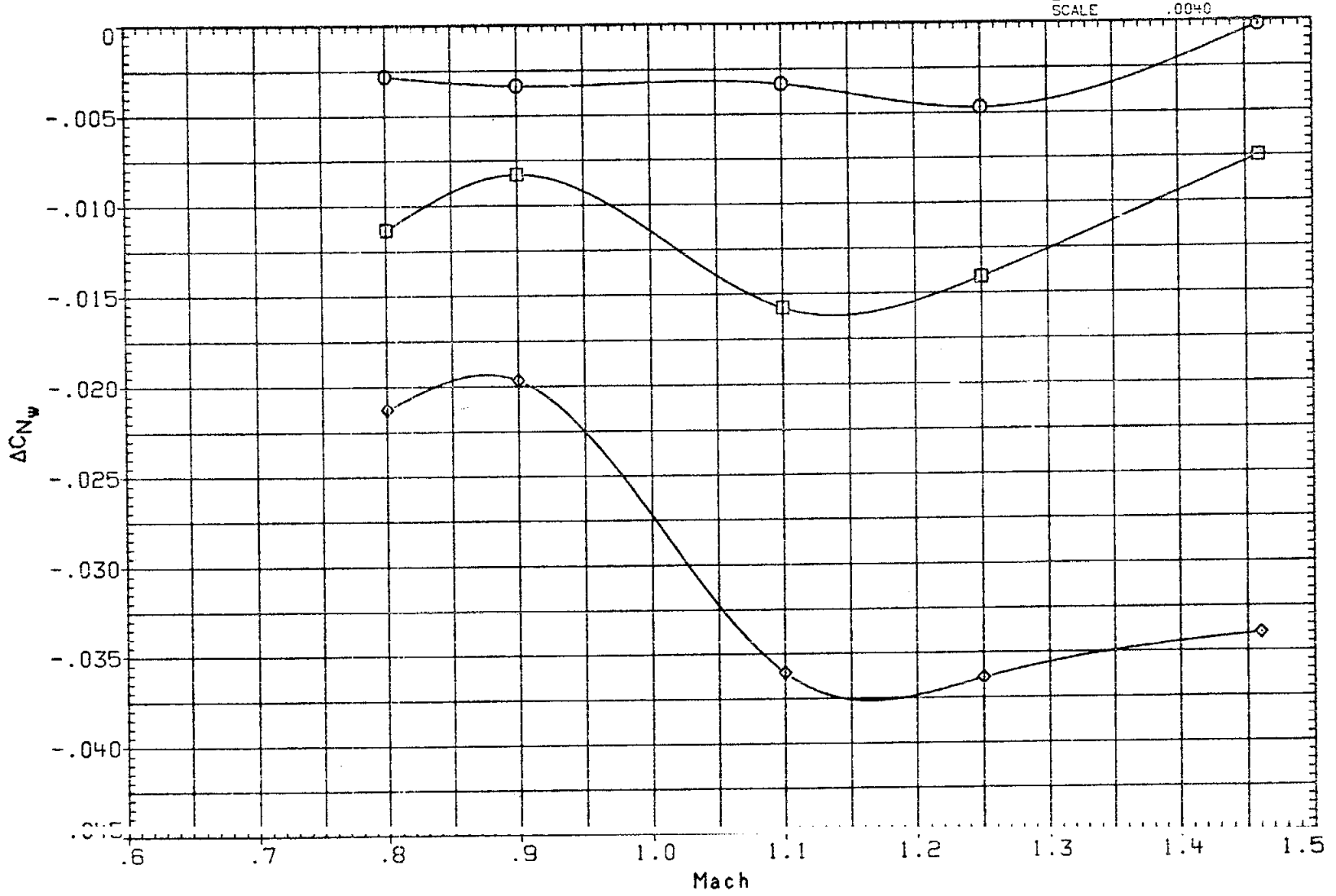

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA5004	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

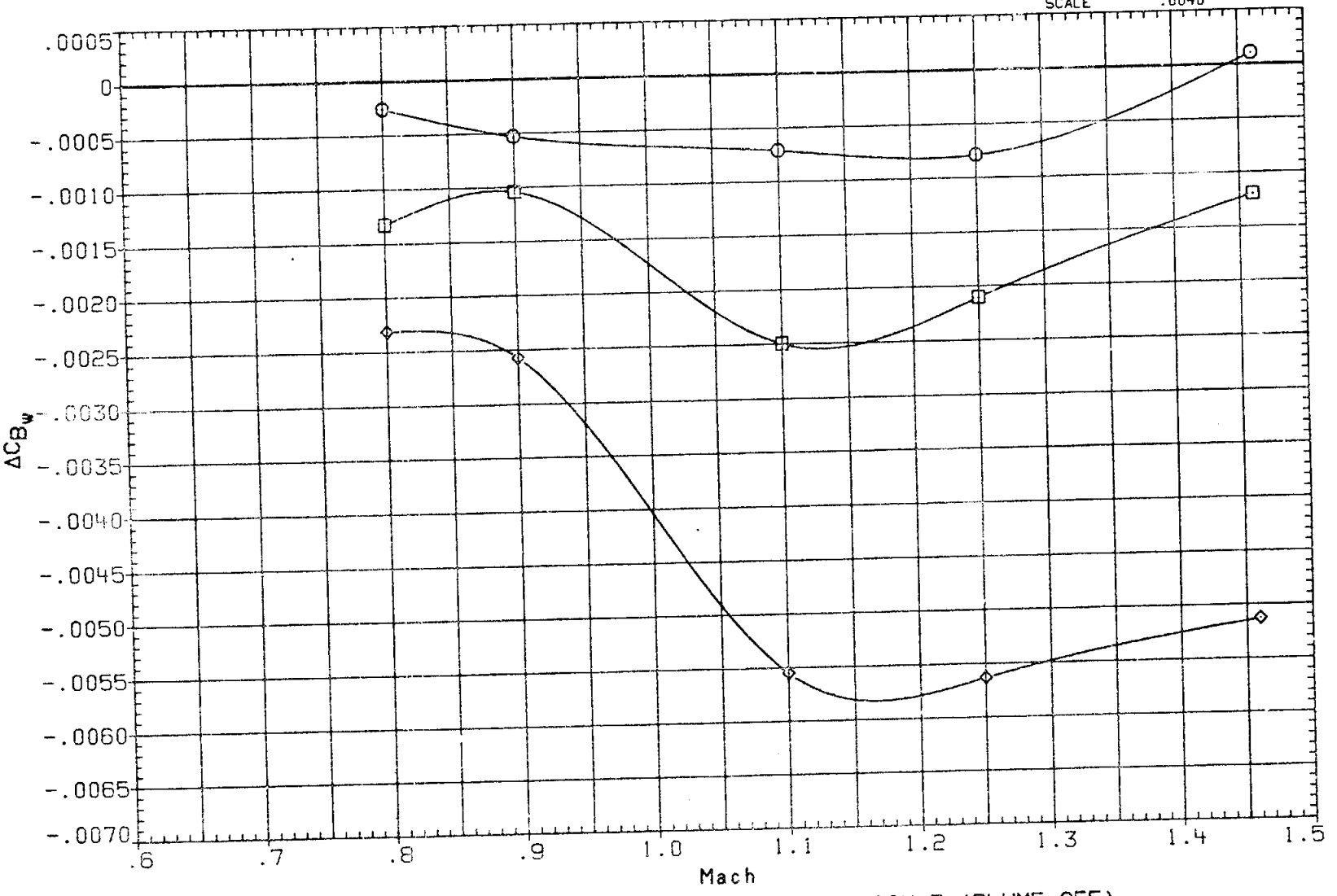

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6004	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

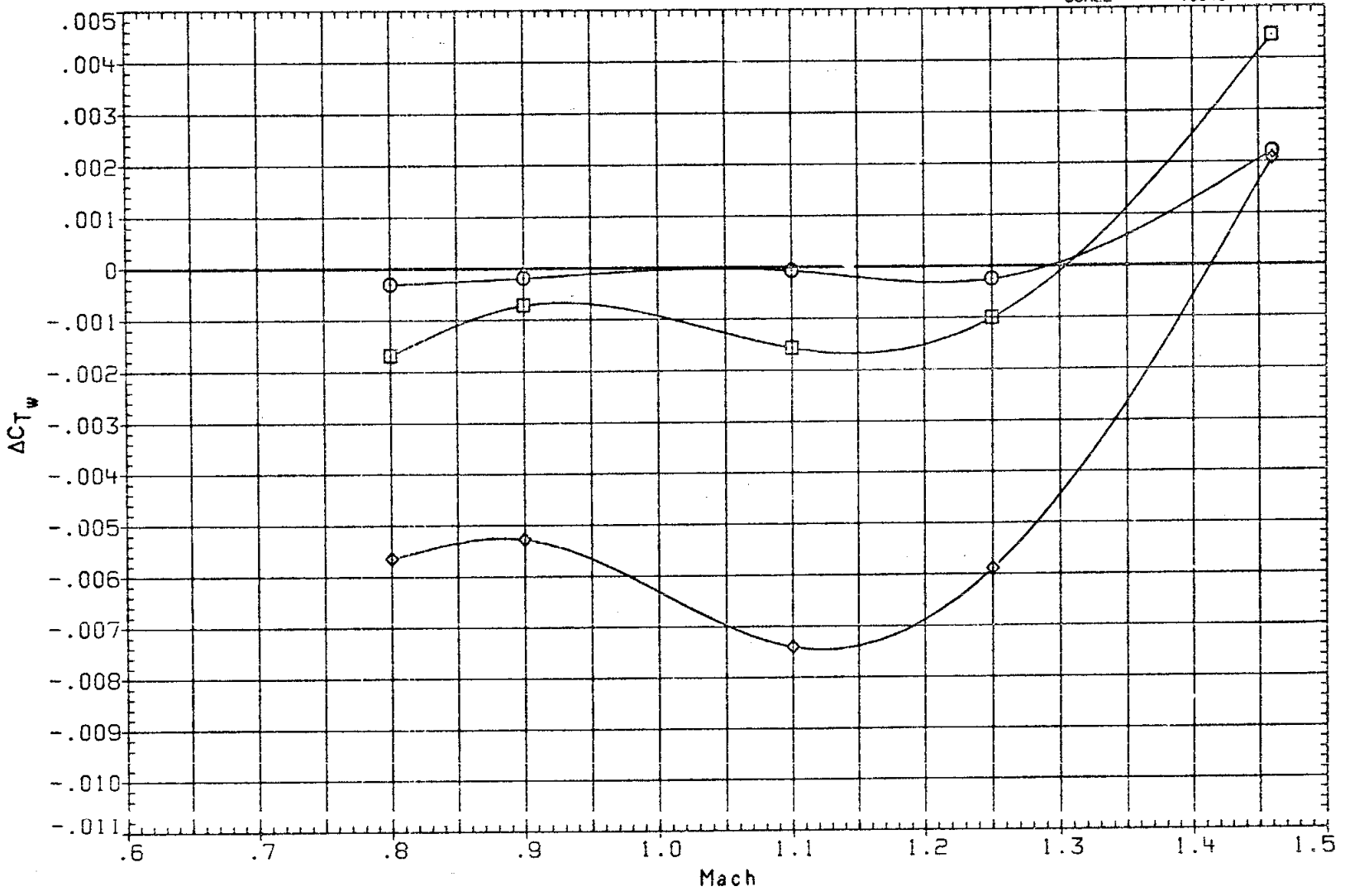

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6004	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

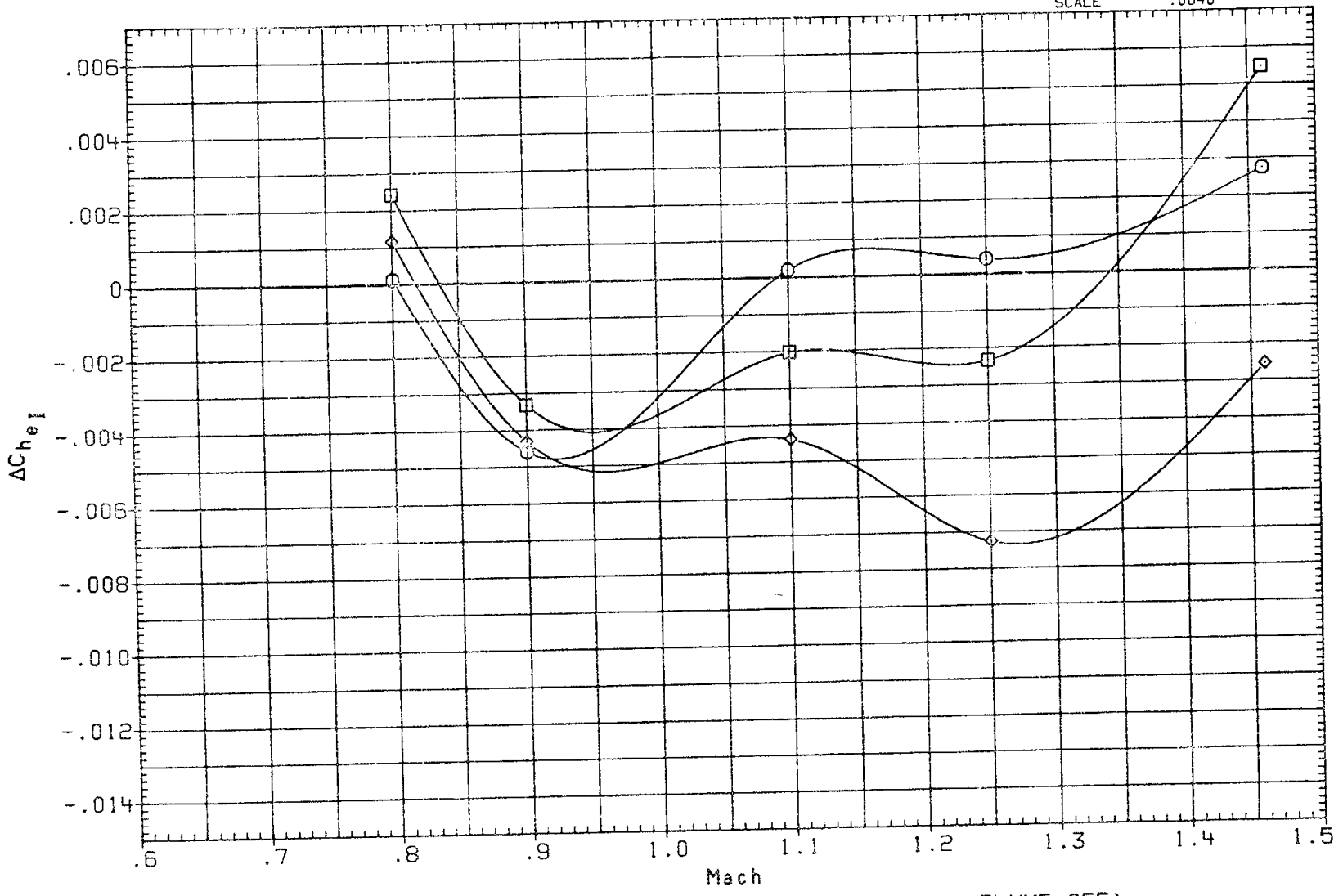

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6004	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

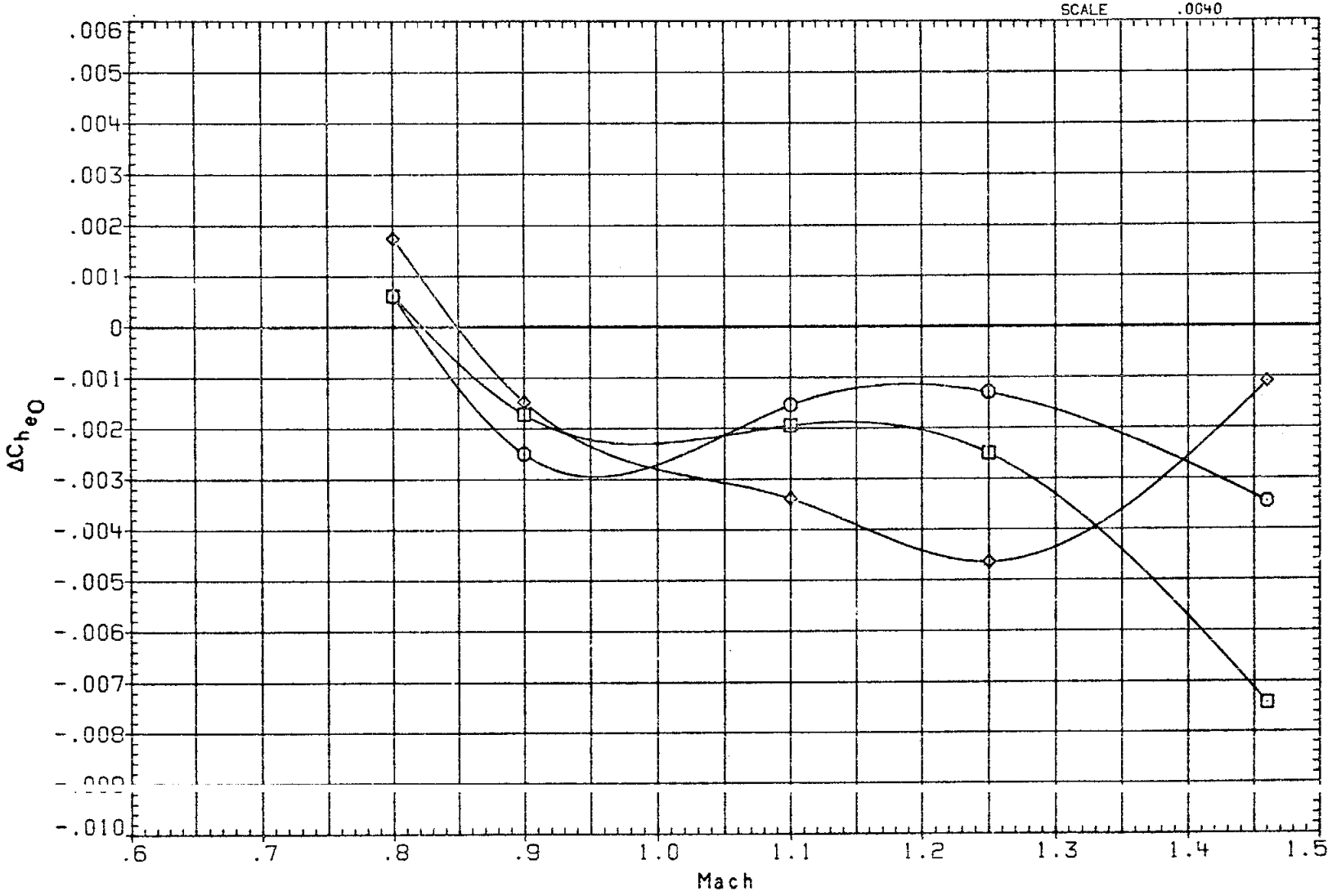

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6004	○	OTS + 10 DEG.RAMP(POS.3).INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	□	OTS+OGIVE FAIRING(POS.3).INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

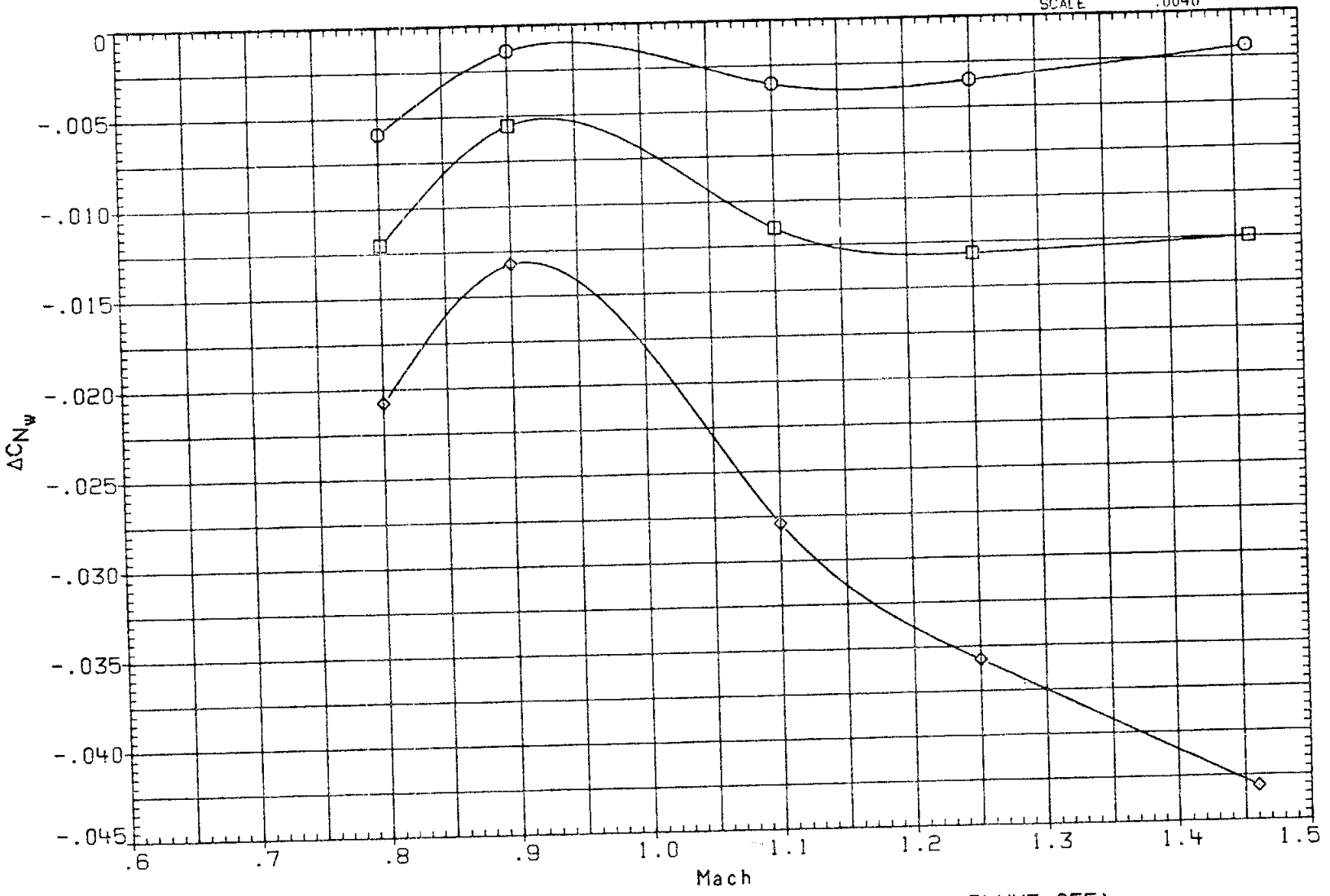

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6004	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

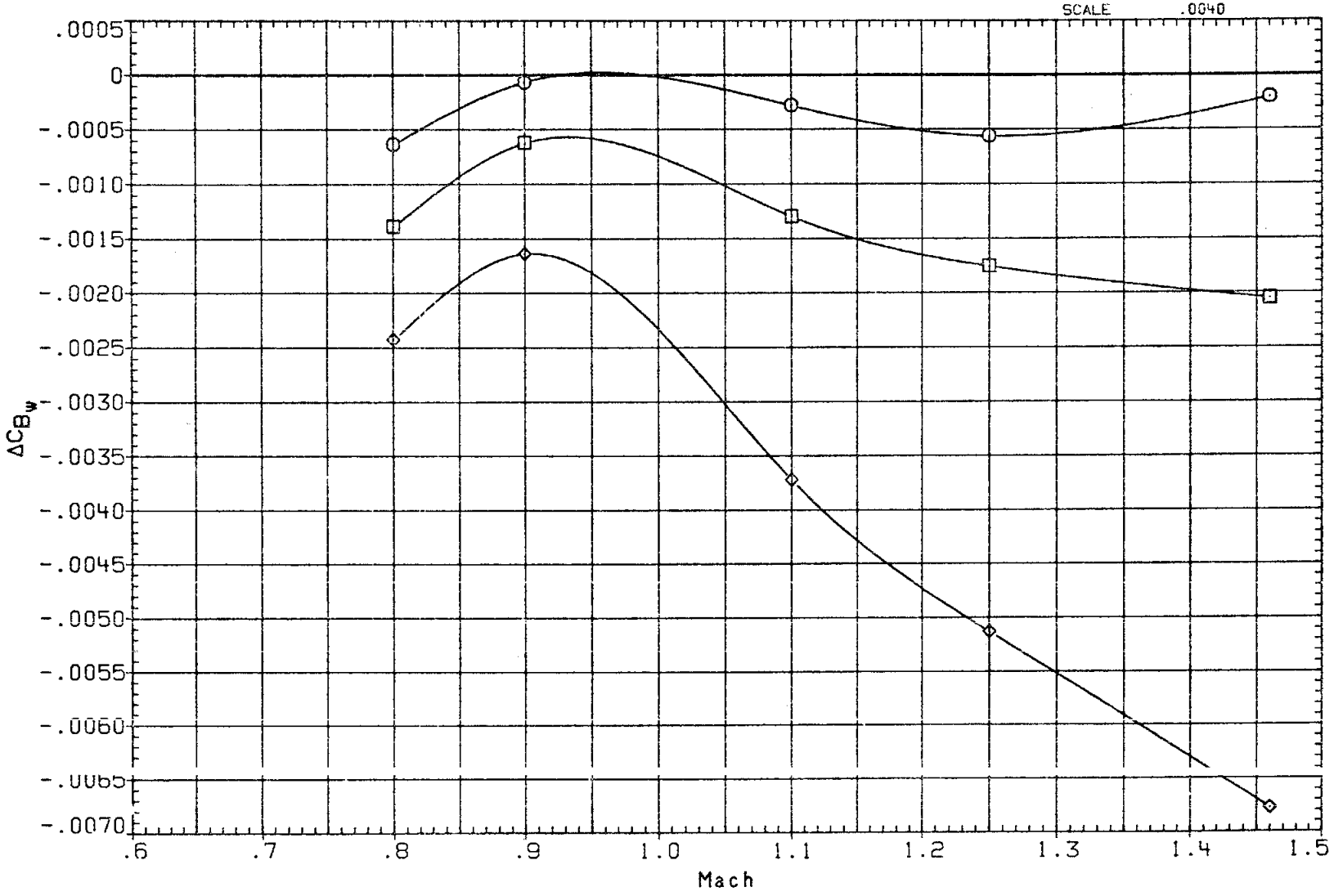

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6004	○	OTS + 10 DEG.RAMP(POS.3).INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	□	OTS+OGIVE FAIRING(POS.3).INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6008	◇	OTS + LARGE FAIRING. INC. EFFECTS - PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

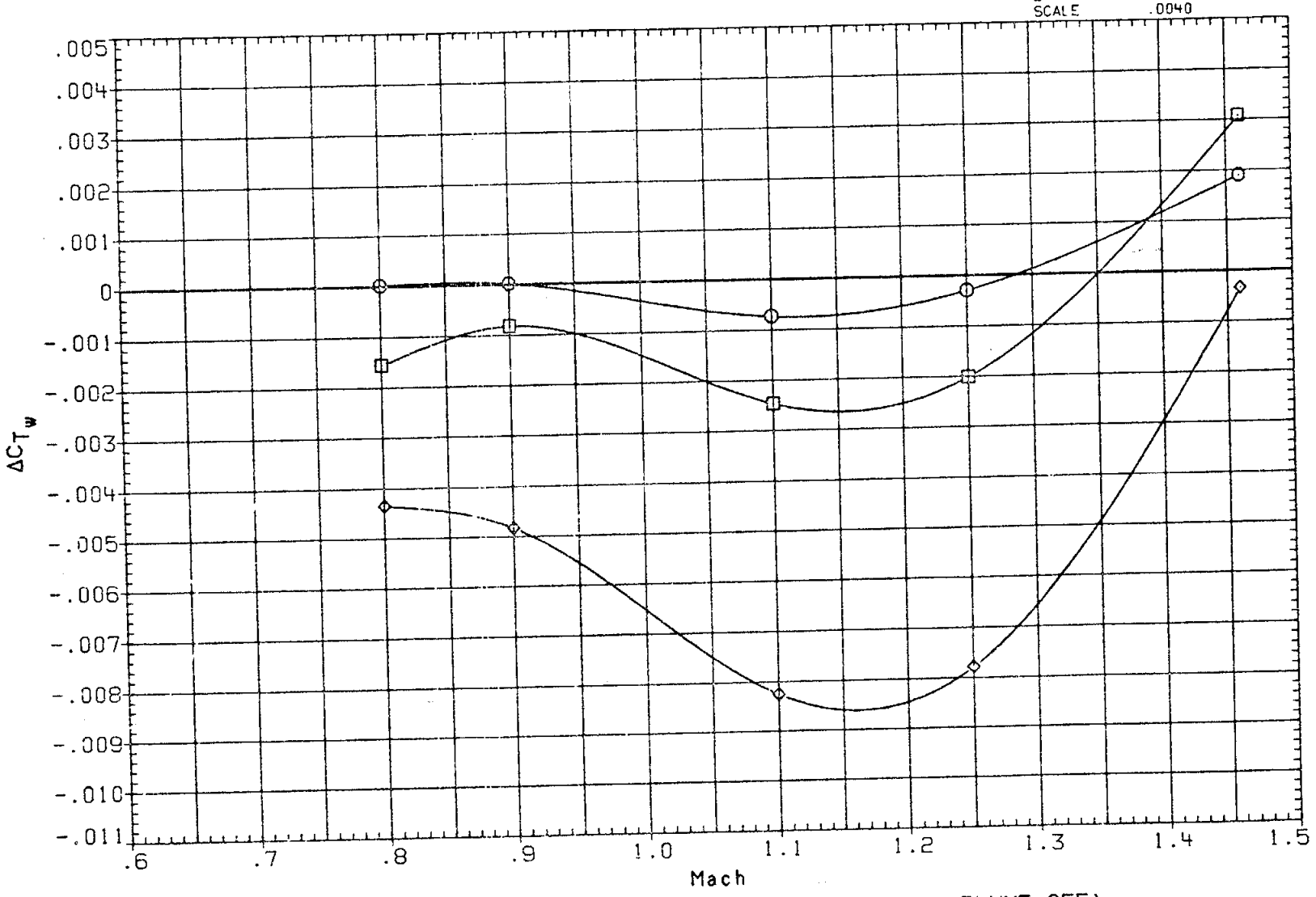

FIG. 13 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6001	○	MSFC TWT 692. O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
AA6002	□	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
AA6003	◇	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
AA6004	△	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

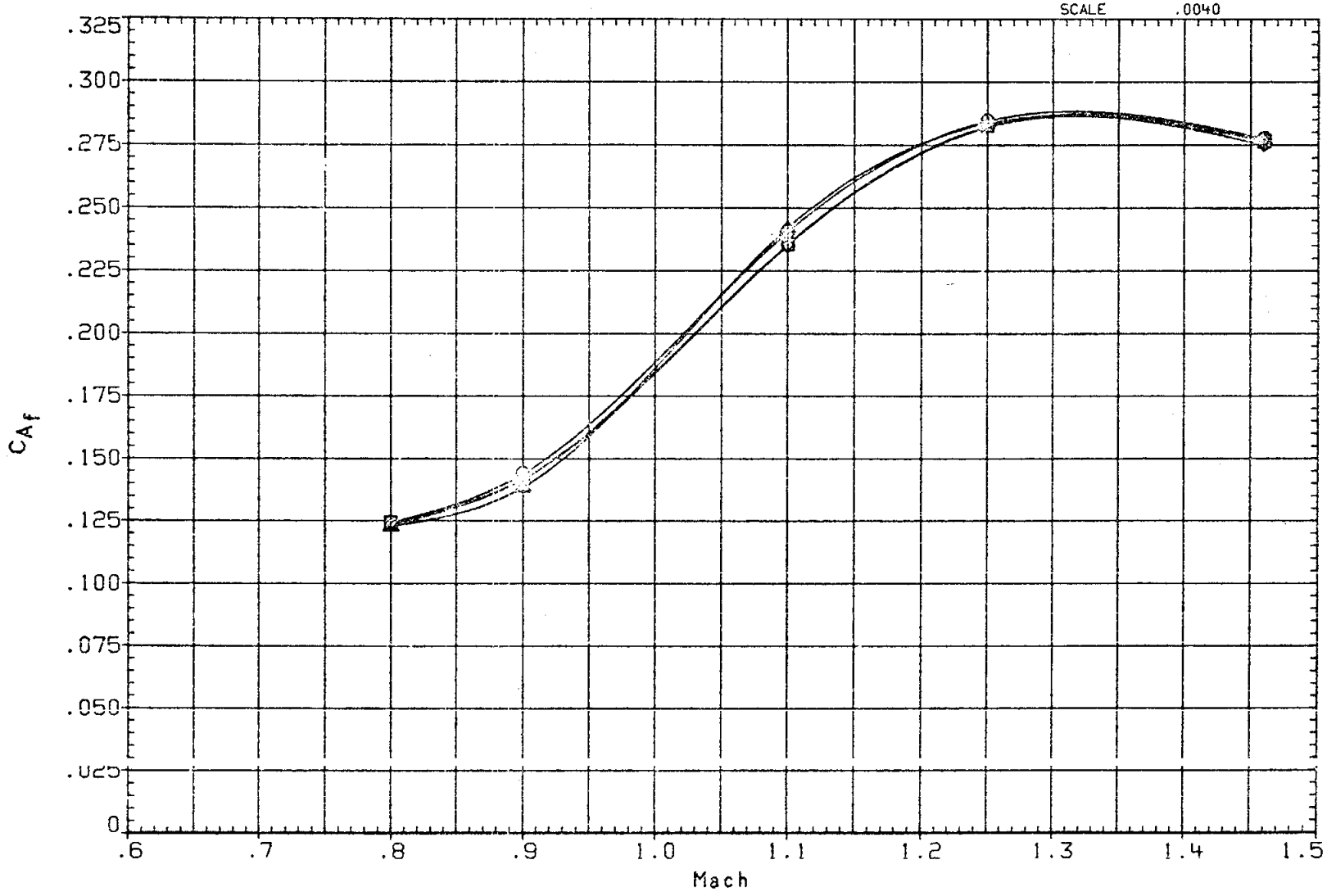

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

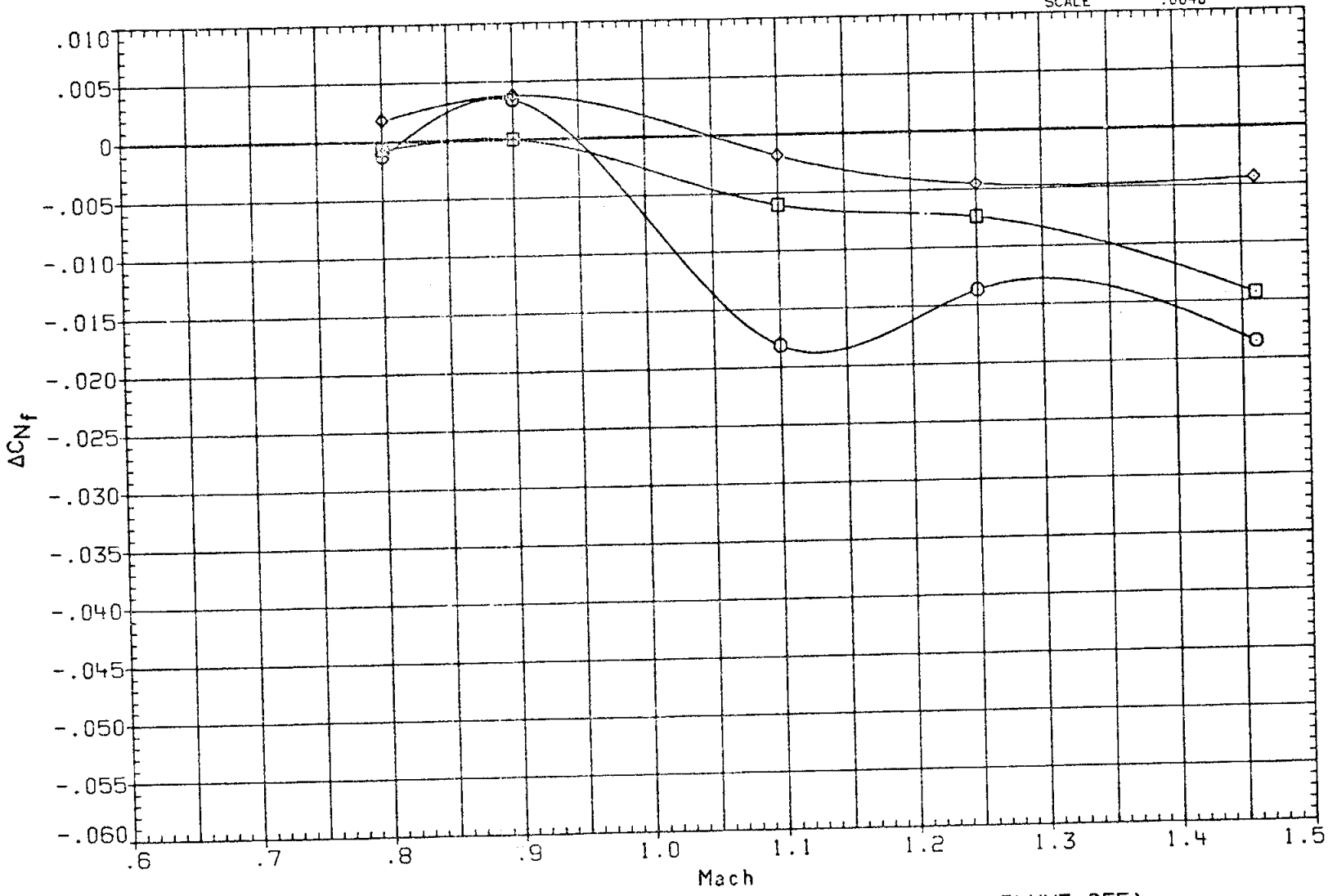

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

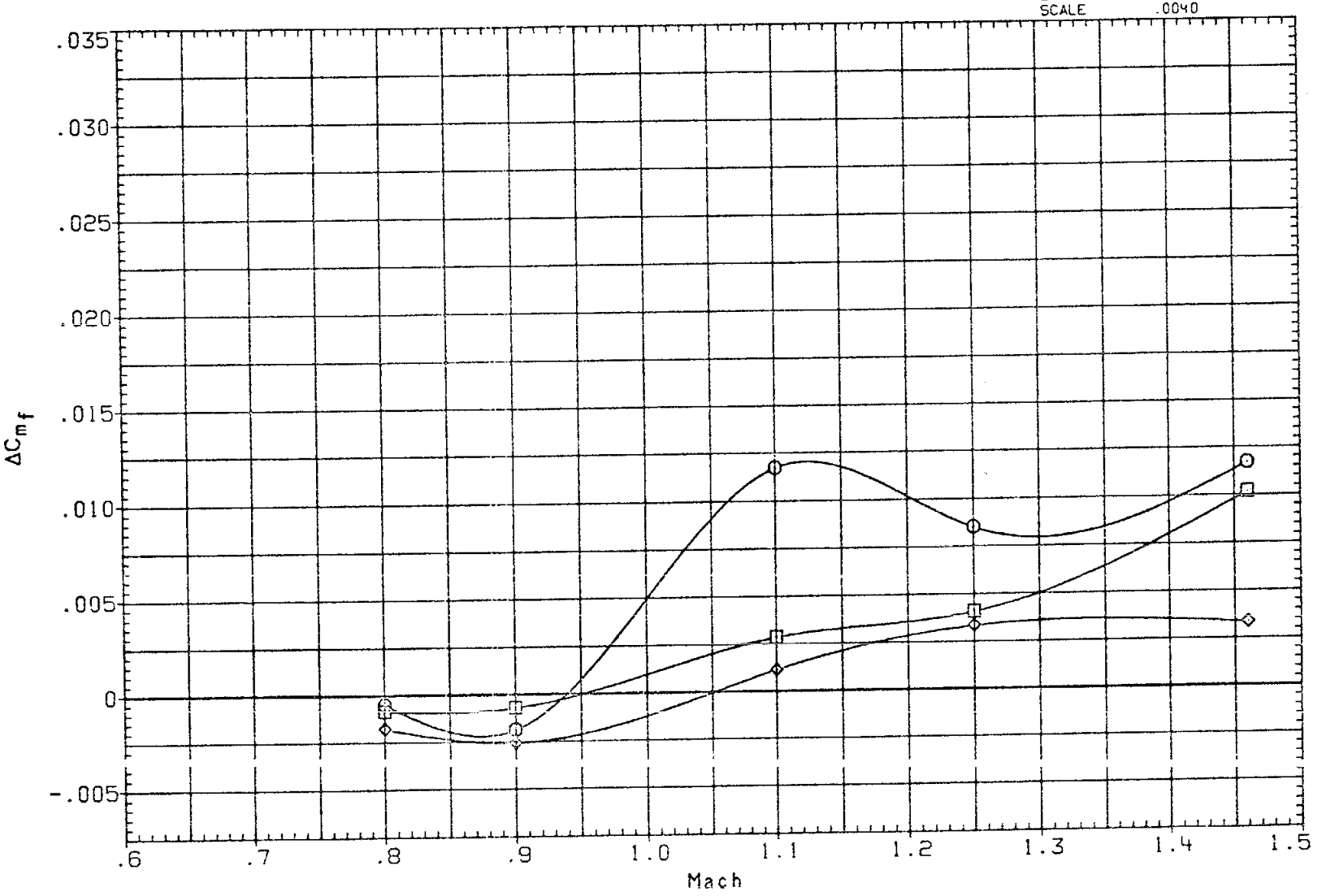

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6001	○	MSFC TWT 692. O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
AA6002	□	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
AA6003	◇	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
AA6004	△	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

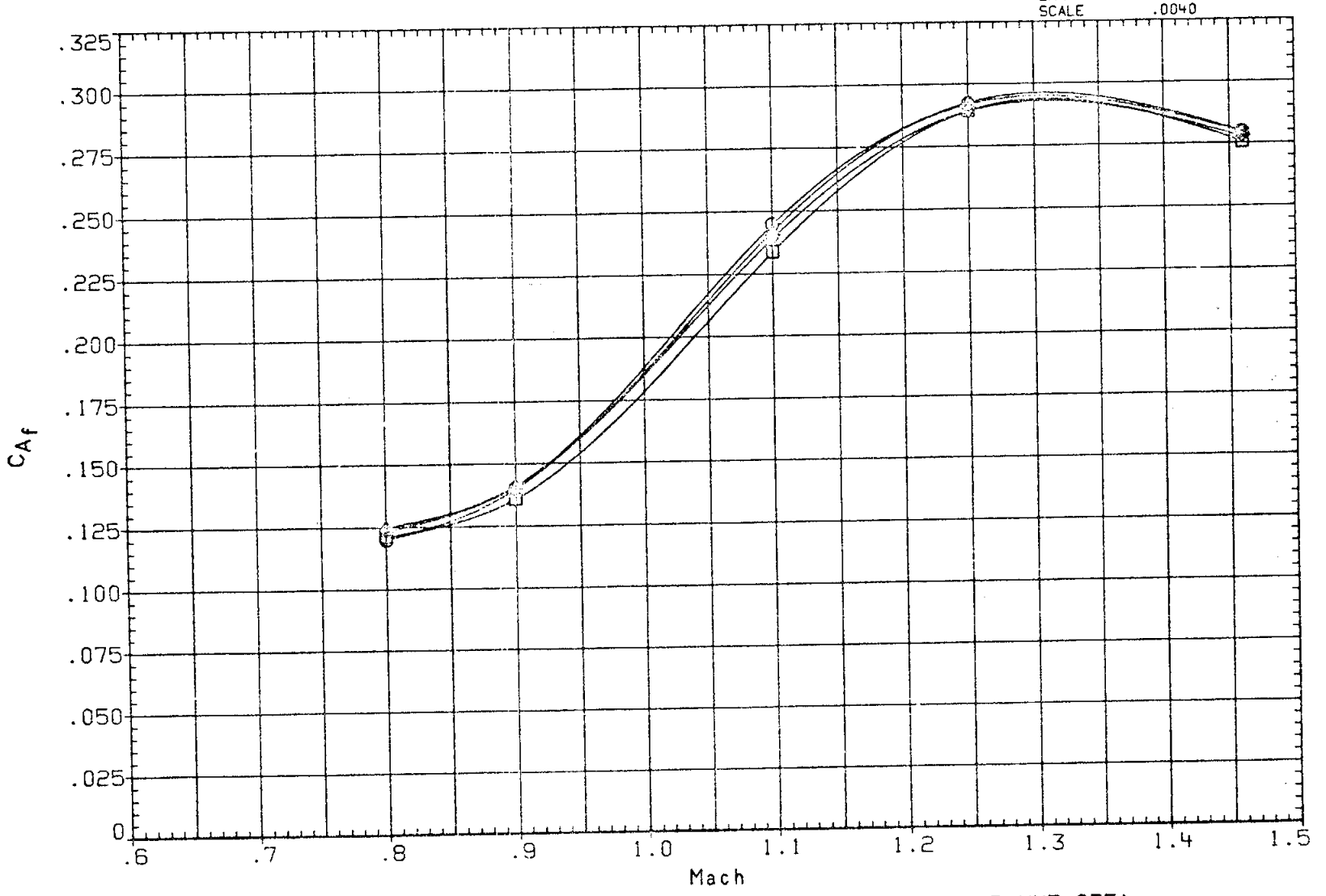

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

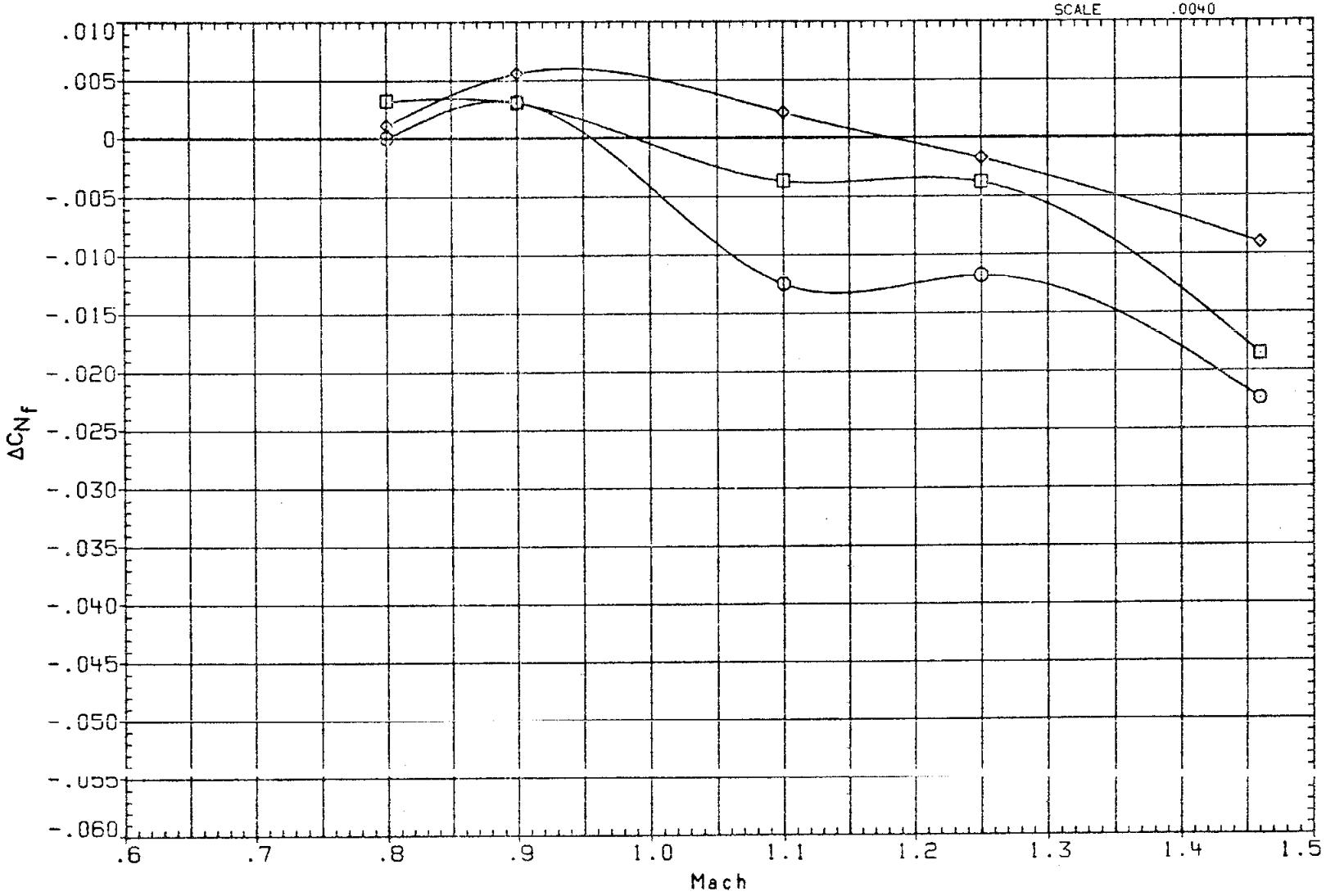

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

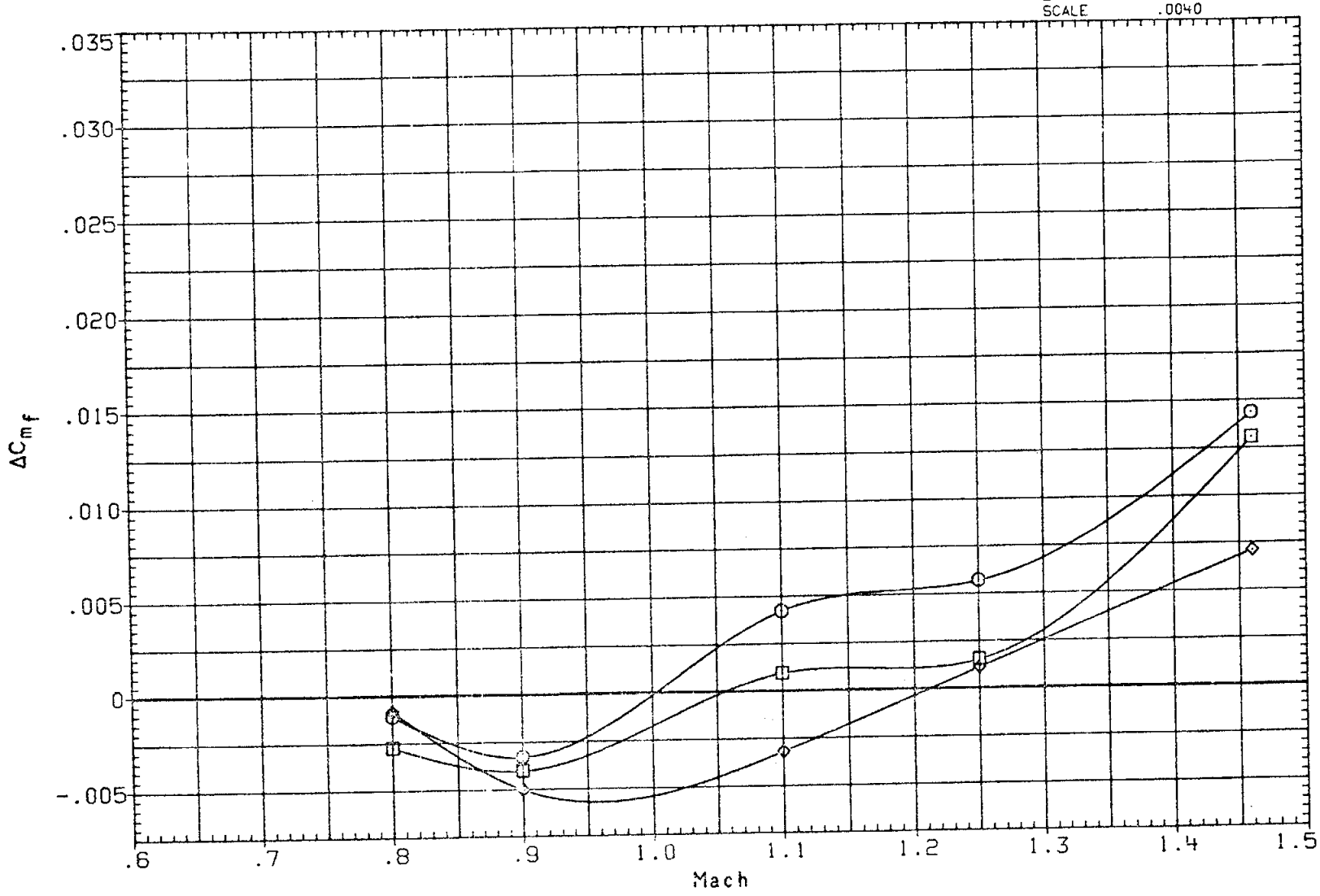

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

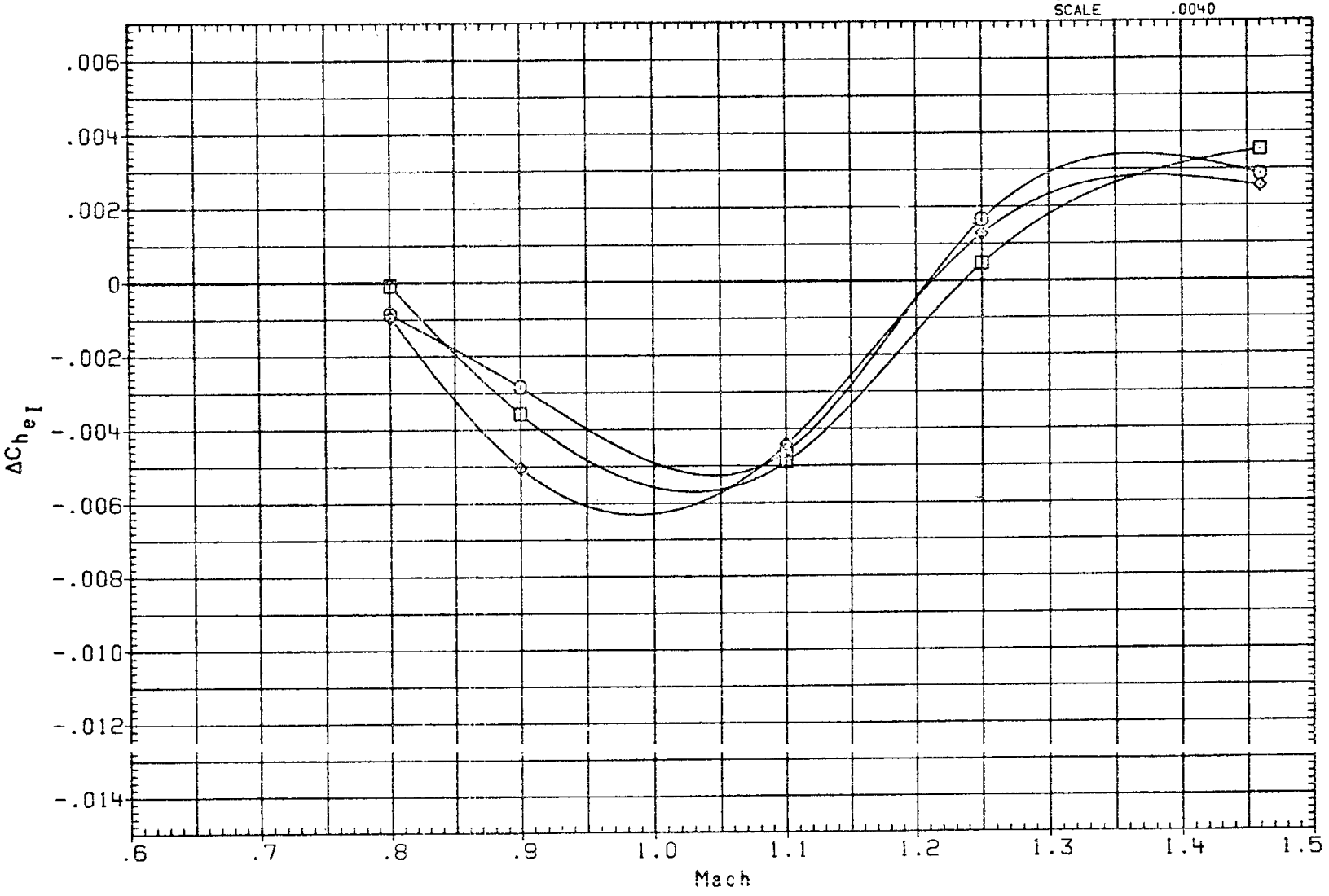

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A) ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

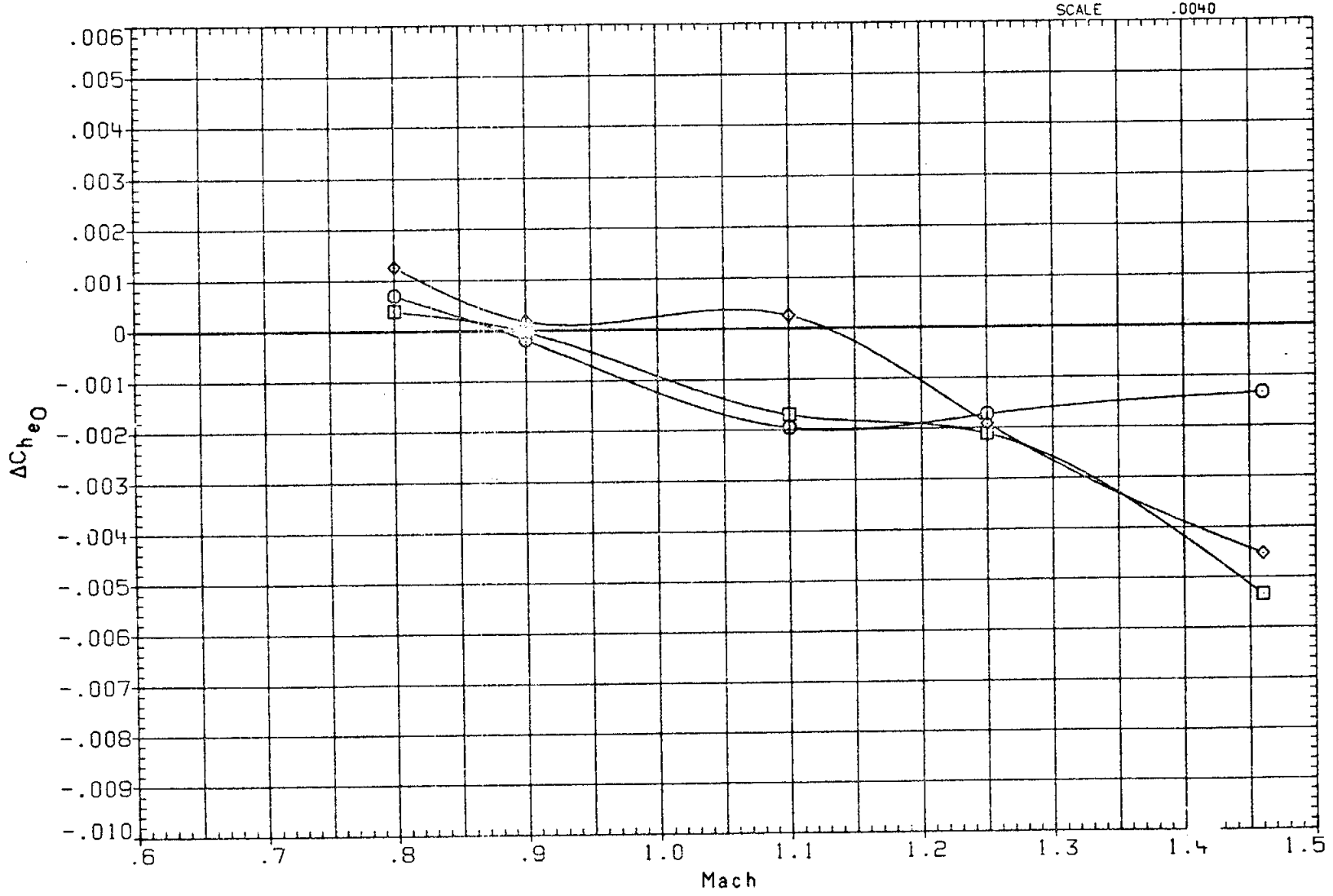

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

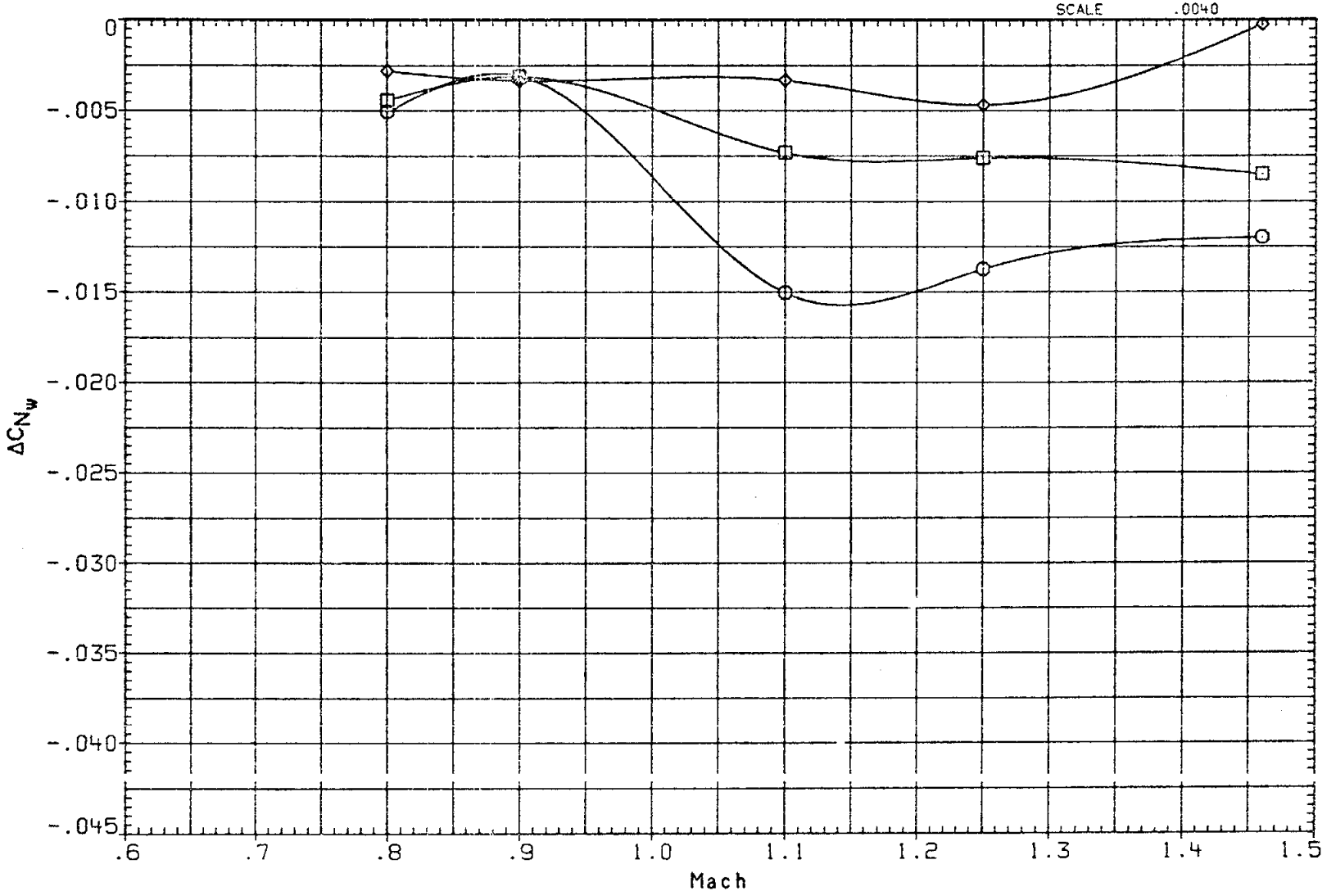

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

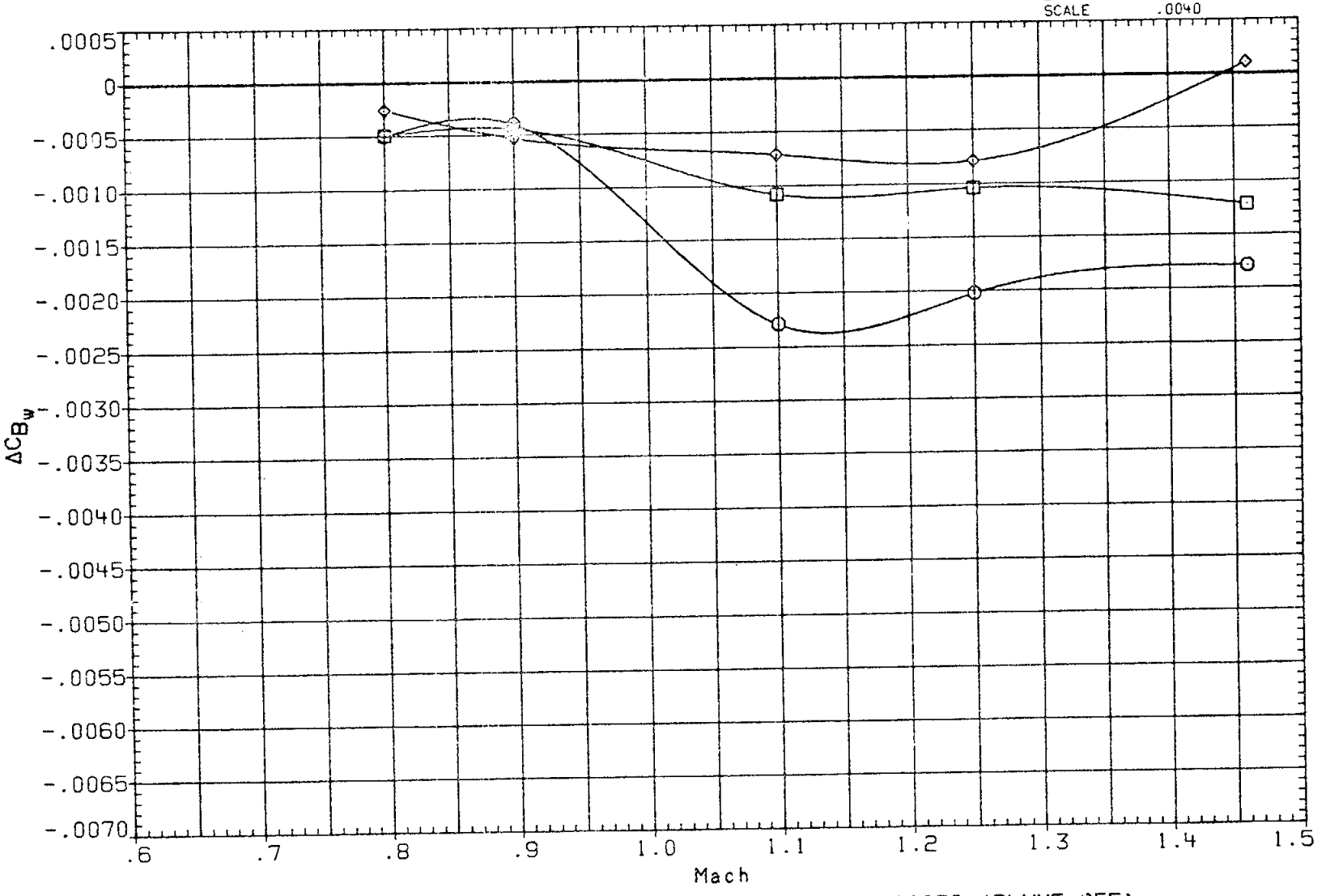

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

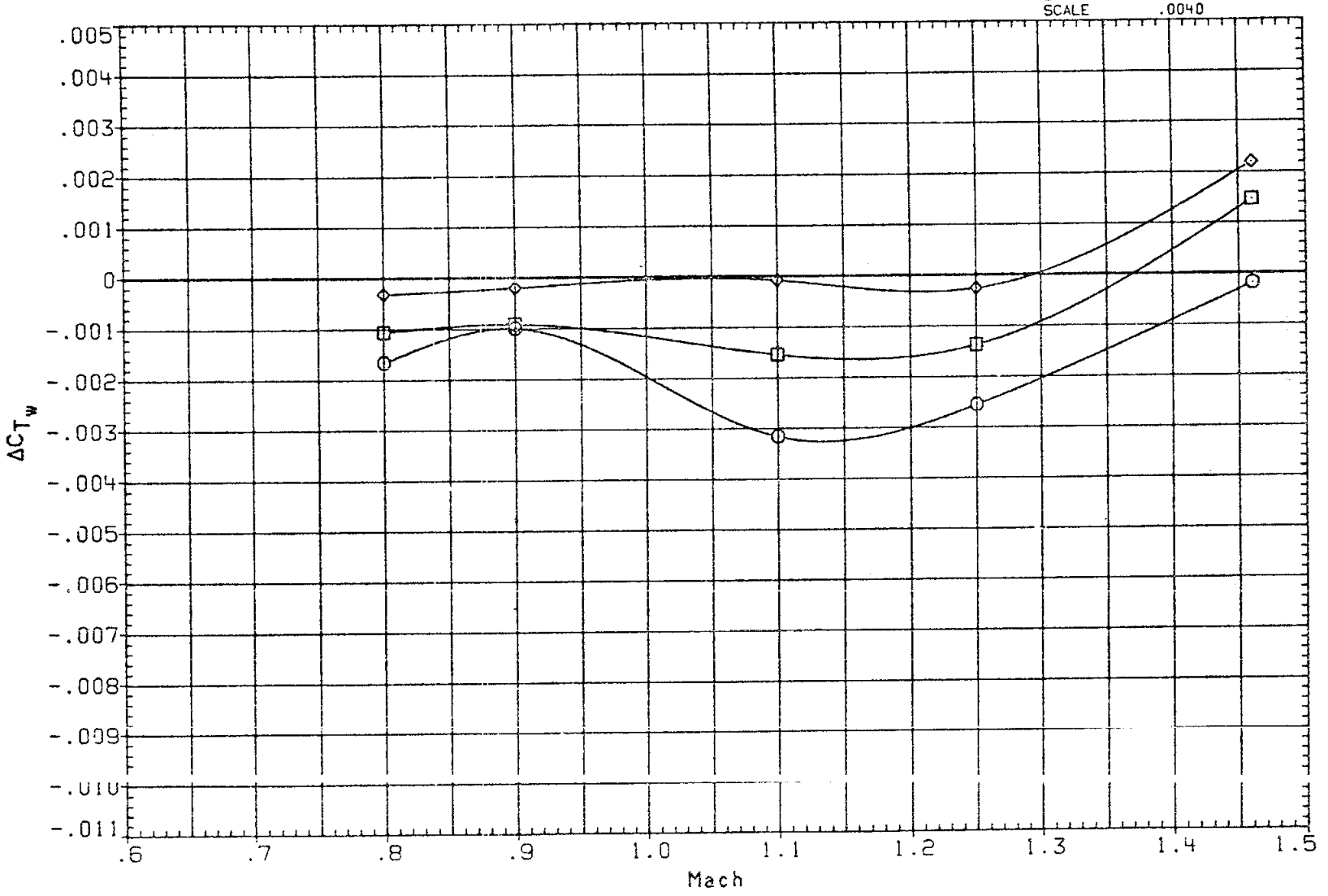

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

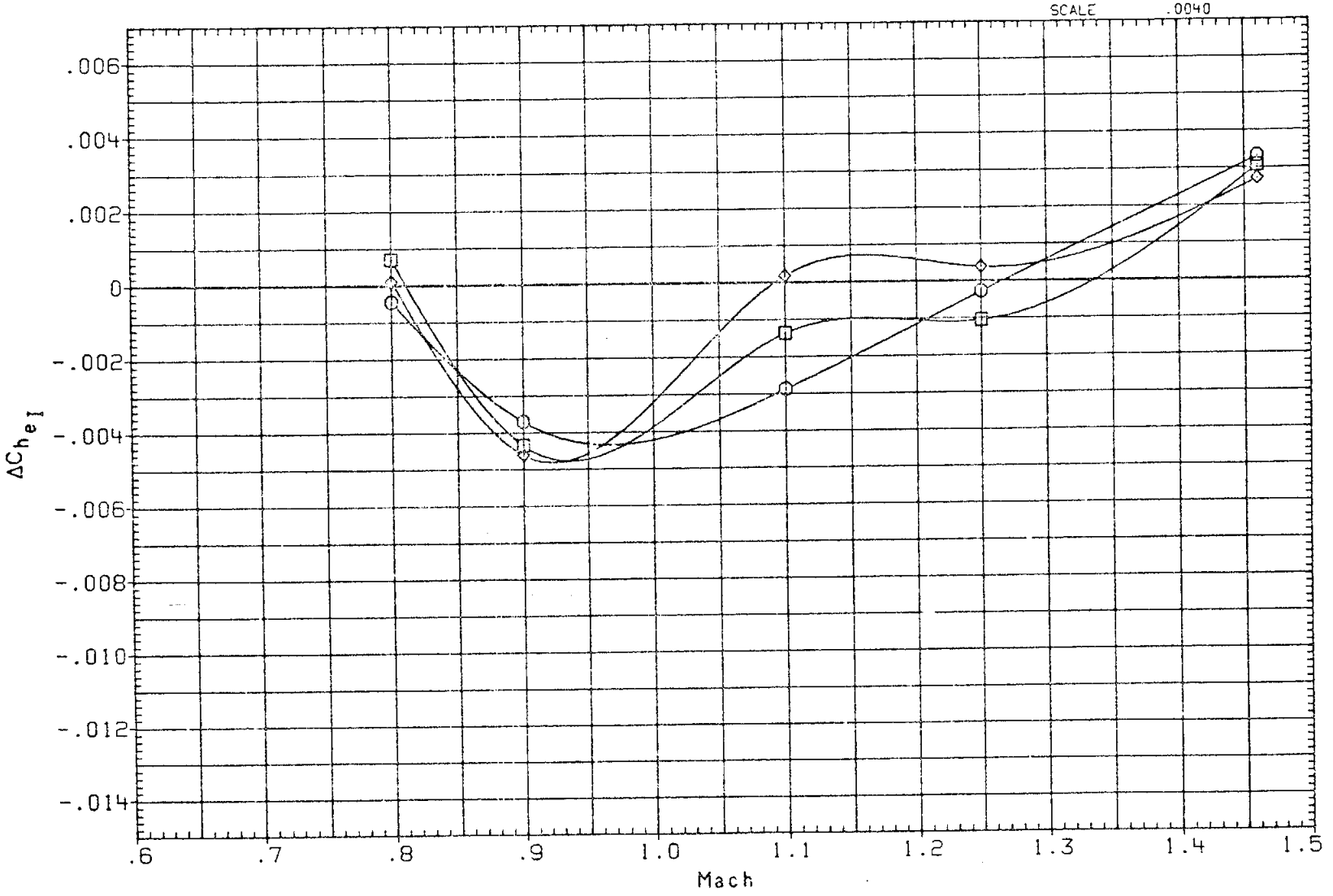

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

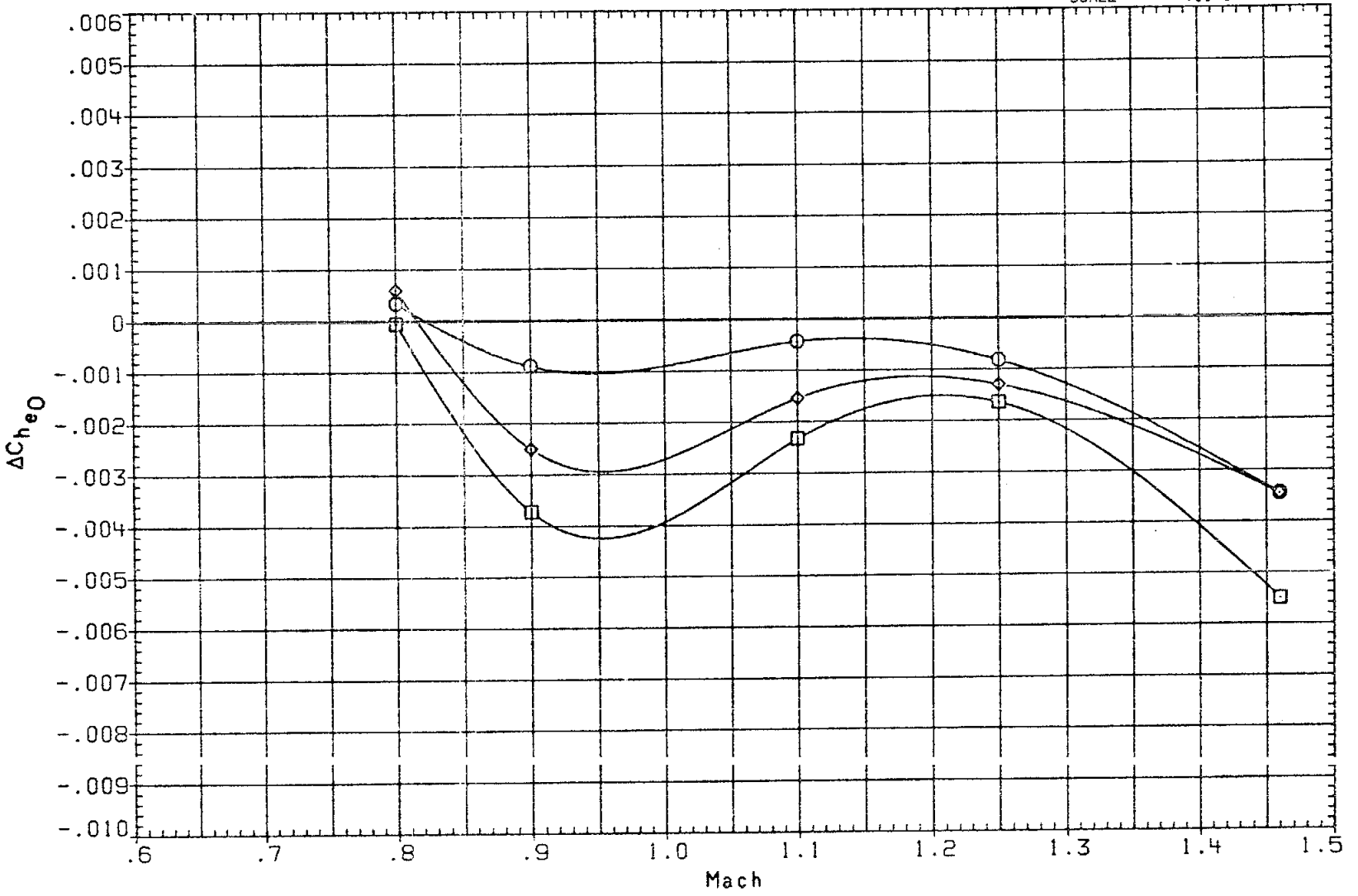

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

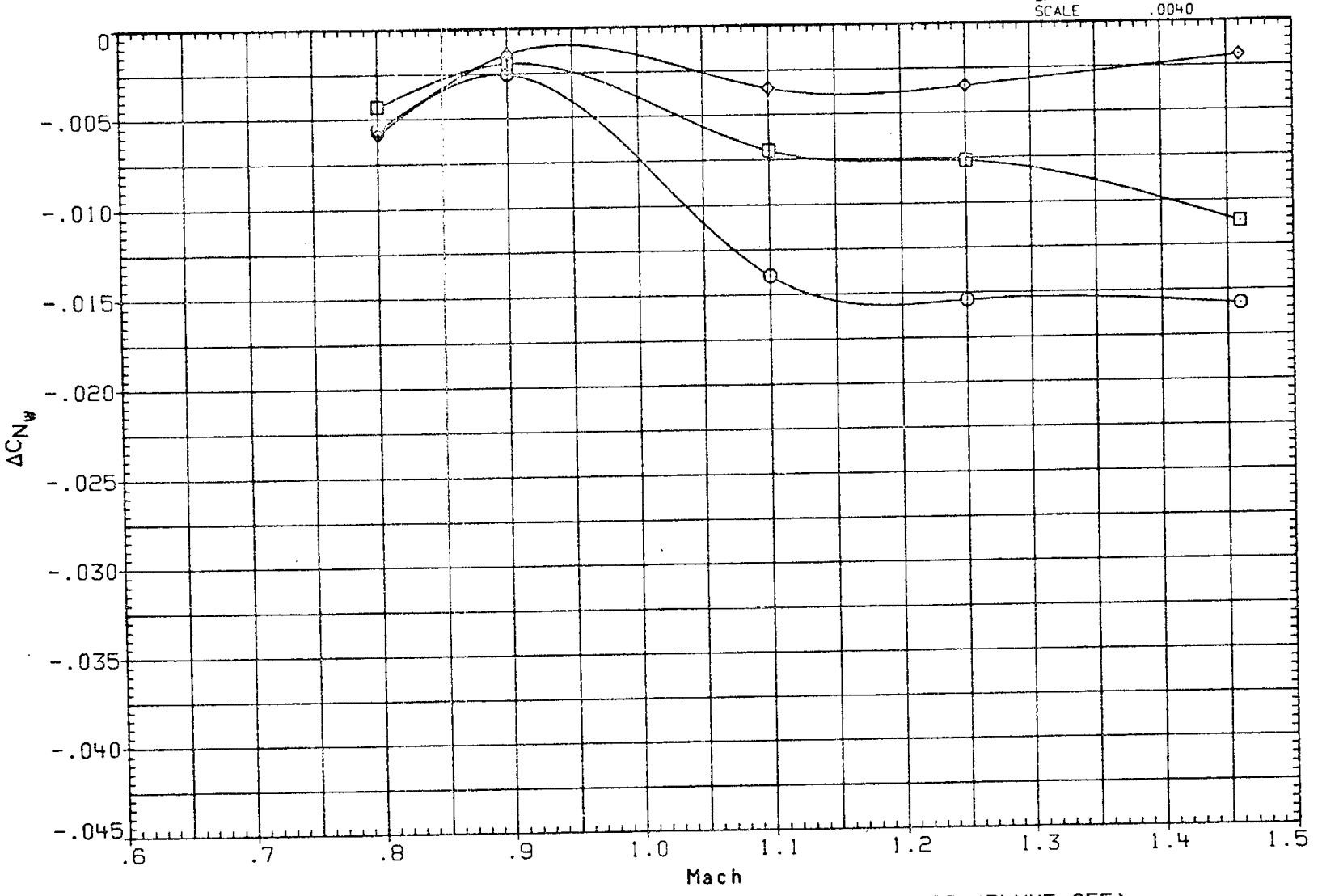

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

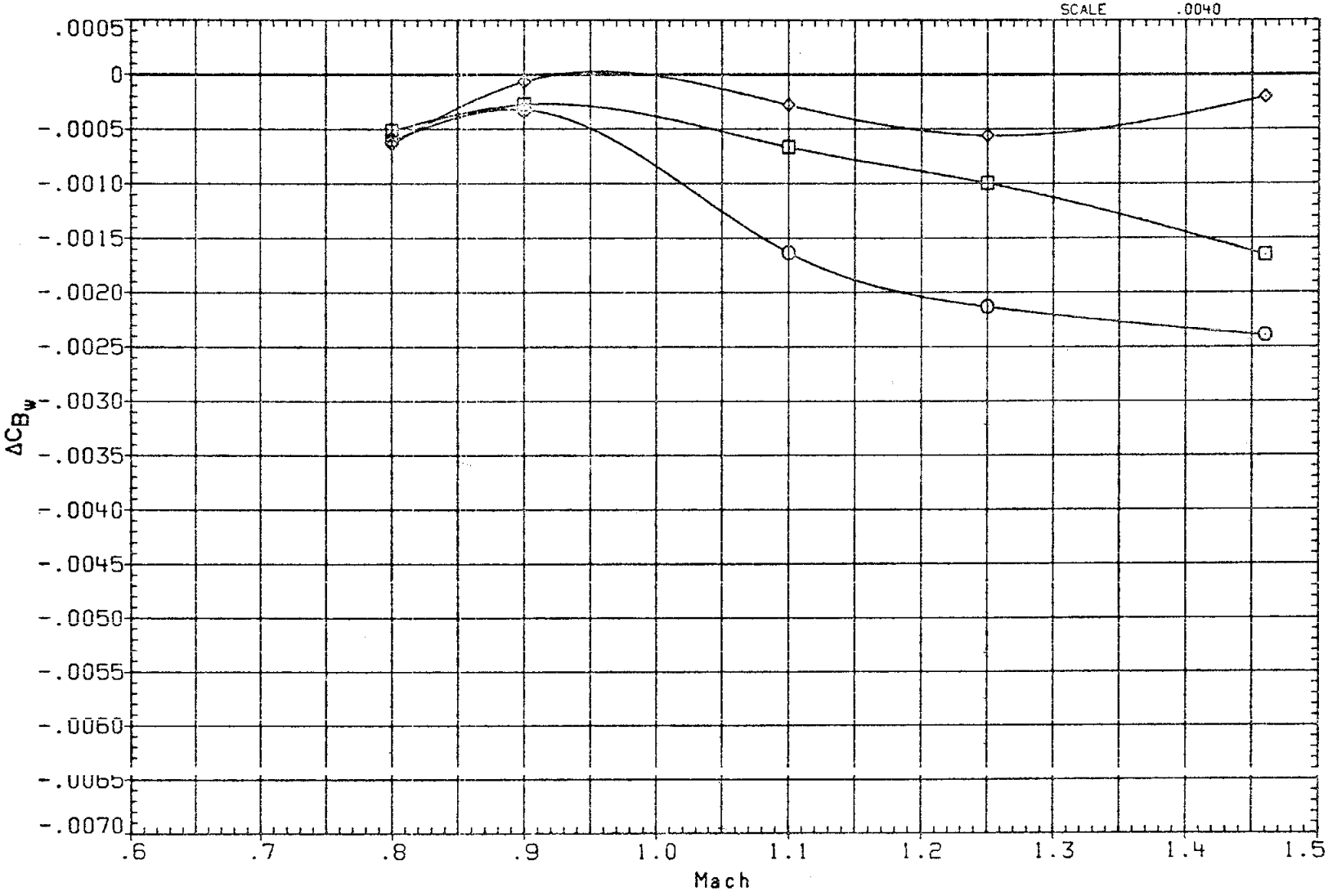

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA5002	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA5003	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6004	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

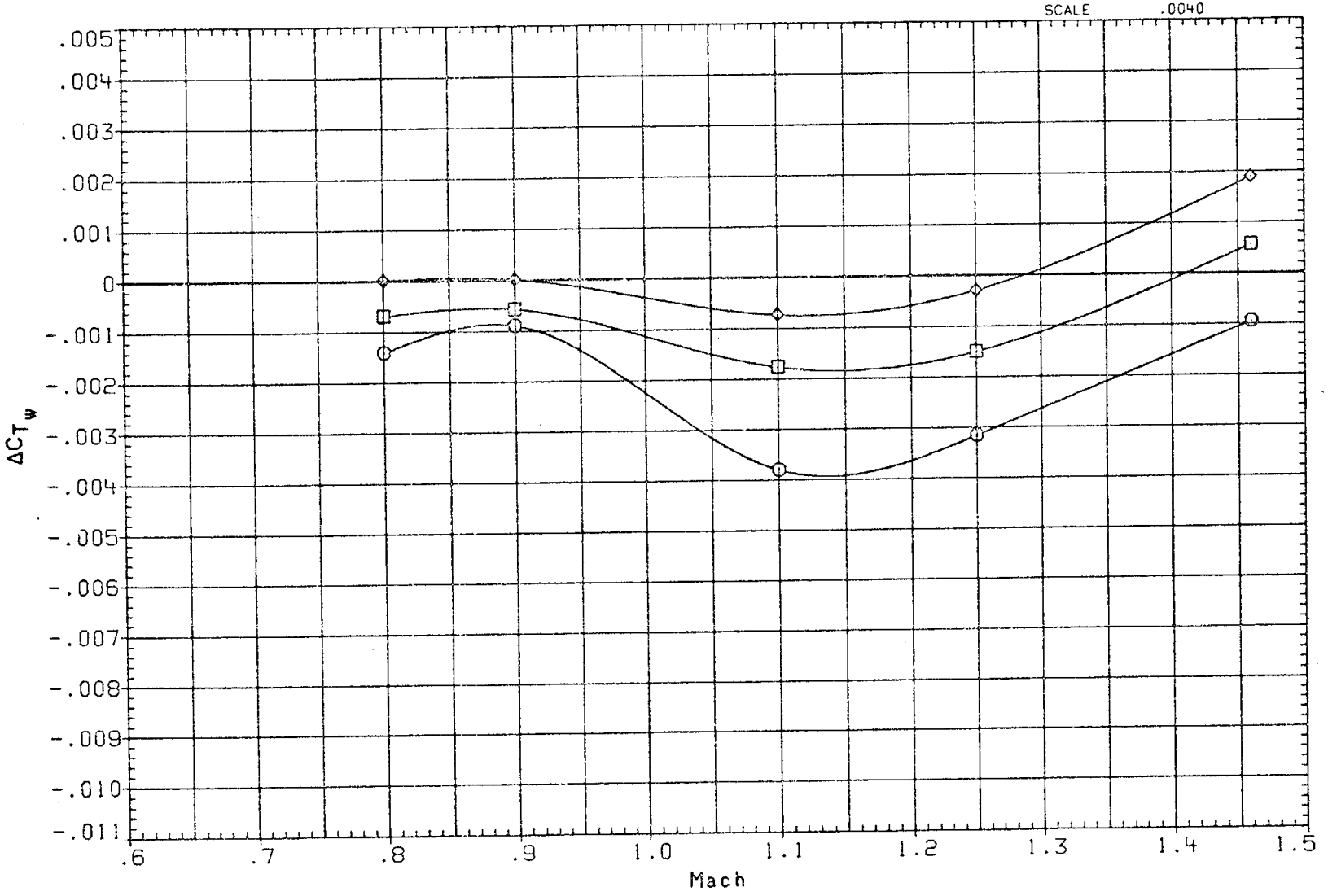

FIG. 14 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME OFF)

(B) ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
AA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
AA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
AA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

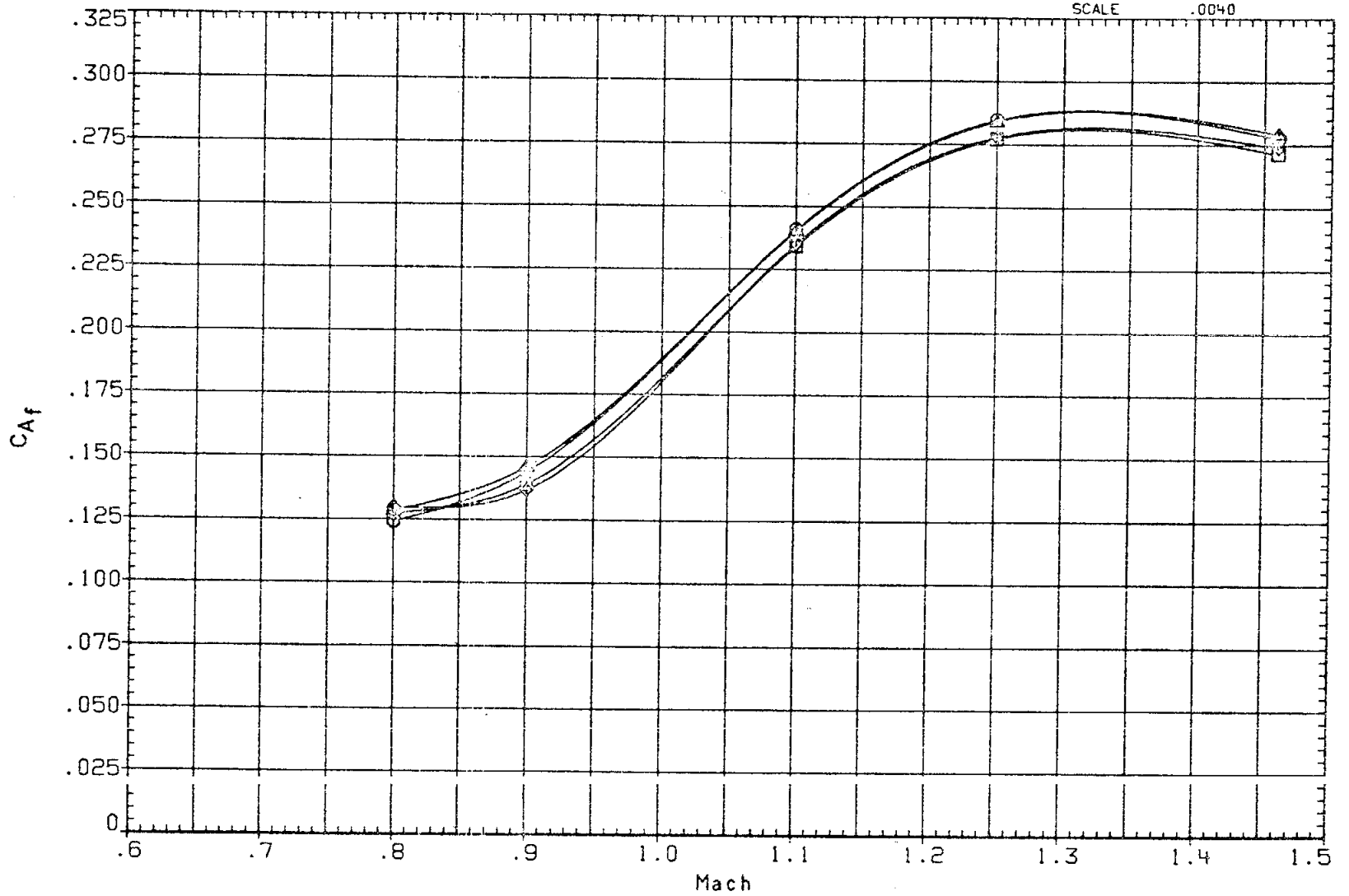

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A) ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

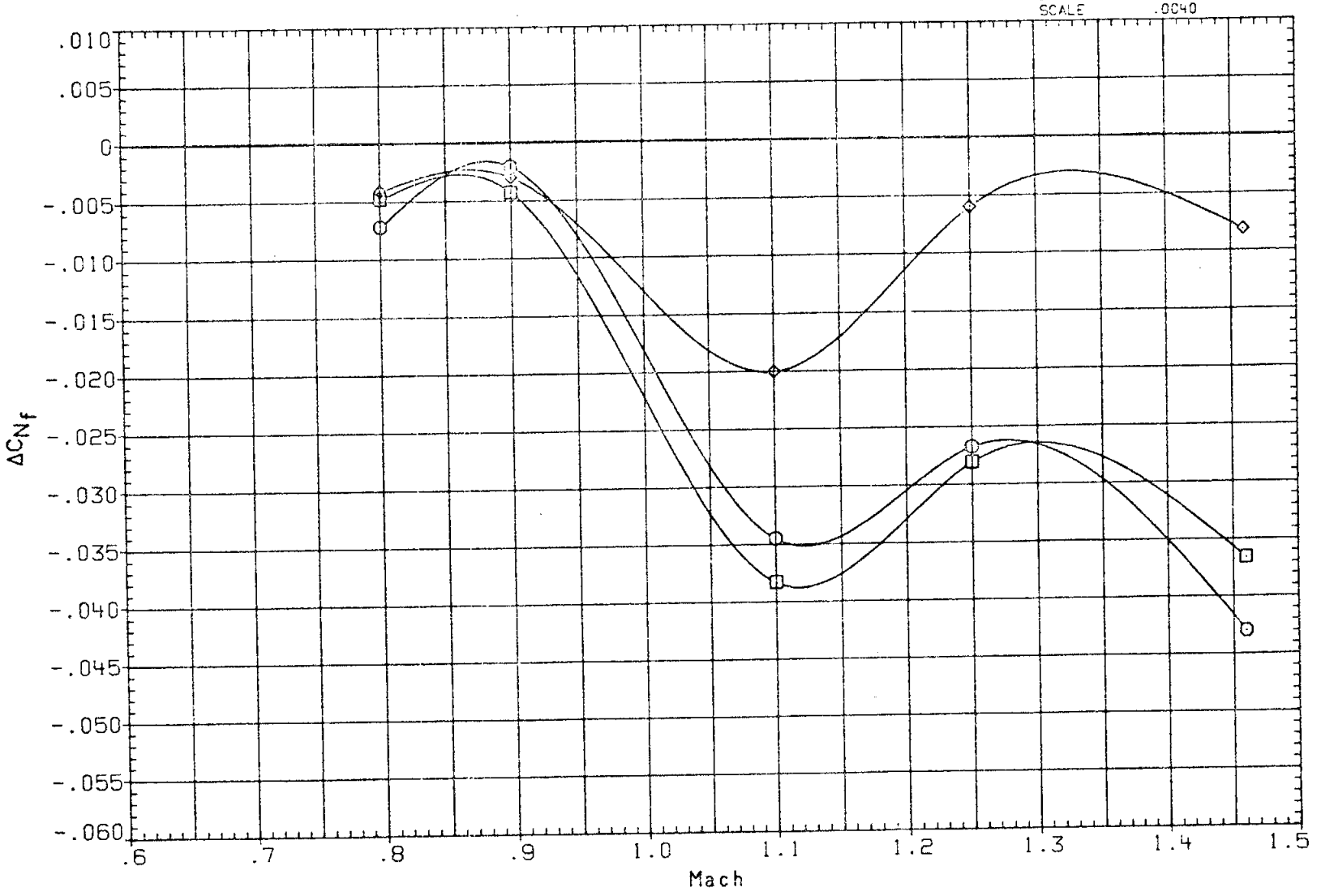

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A) ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

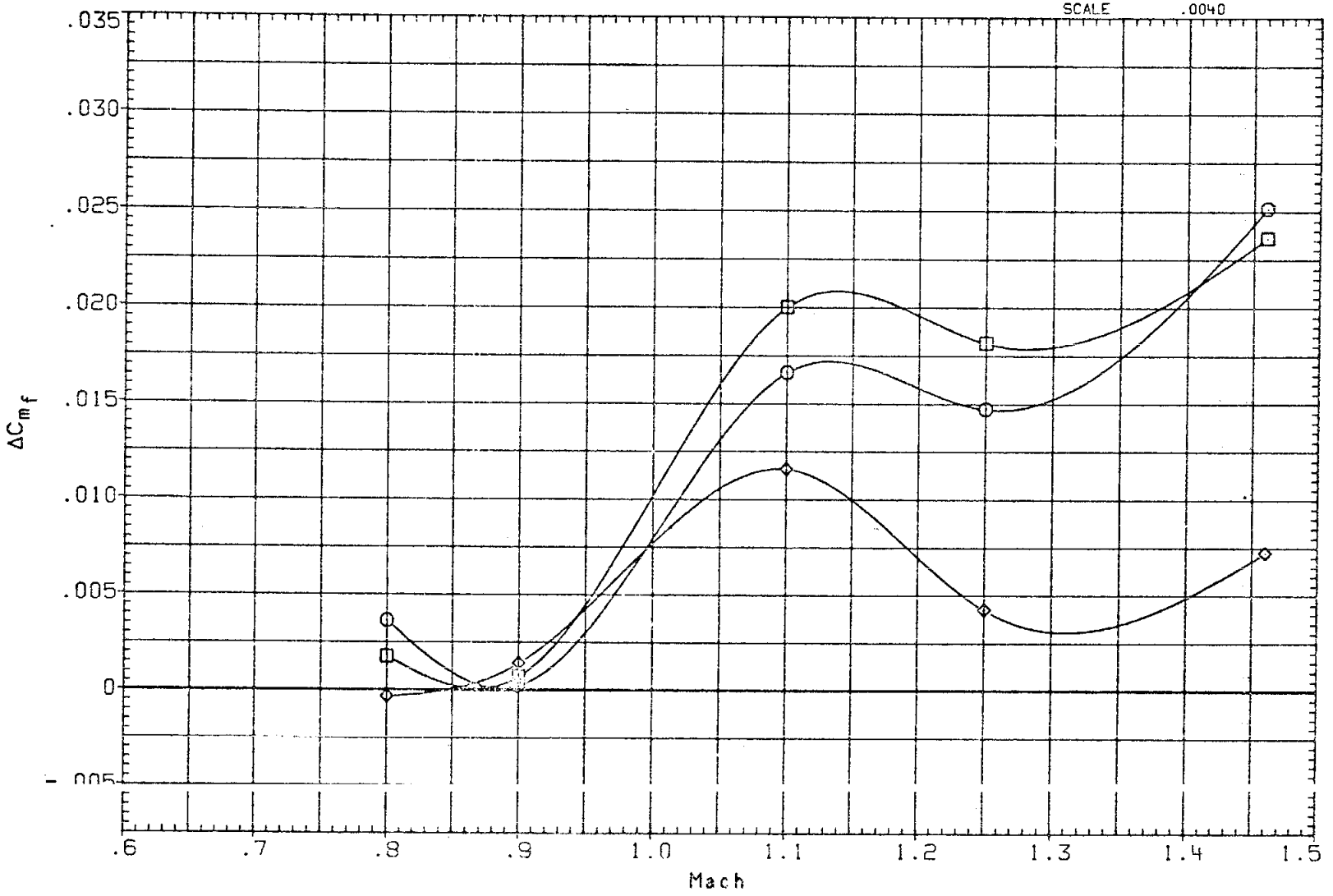

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6001	○	MSFC TWT 692, O T S (BASELINE) - PLUME OFF	.000	10.000	5.000	OFF
AA6005	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF	.000	10.000	5.000	OFF
AA6006	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF	.000	10.000	5.000	OFF
AA6007	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

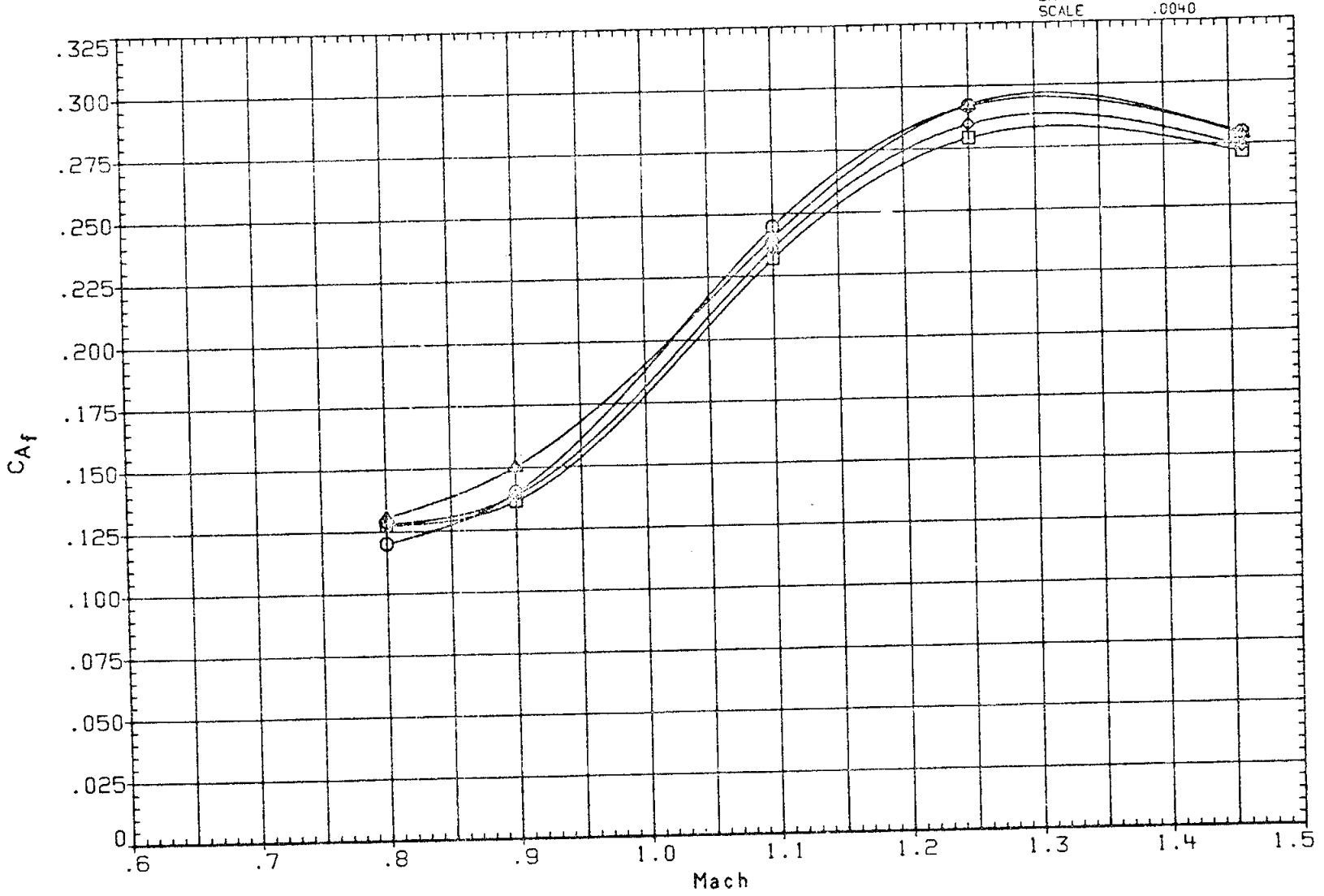

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	975.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

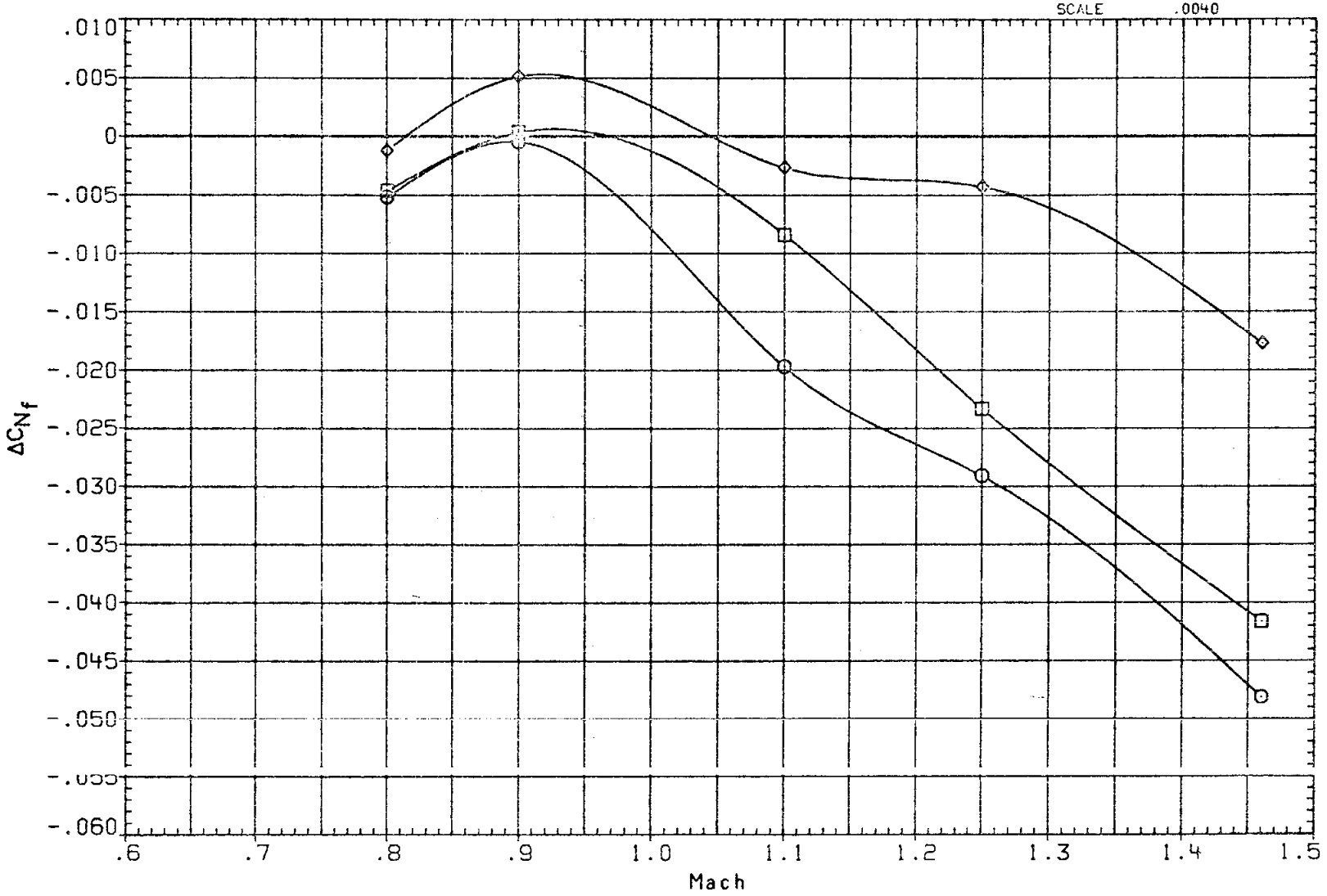

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
JA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

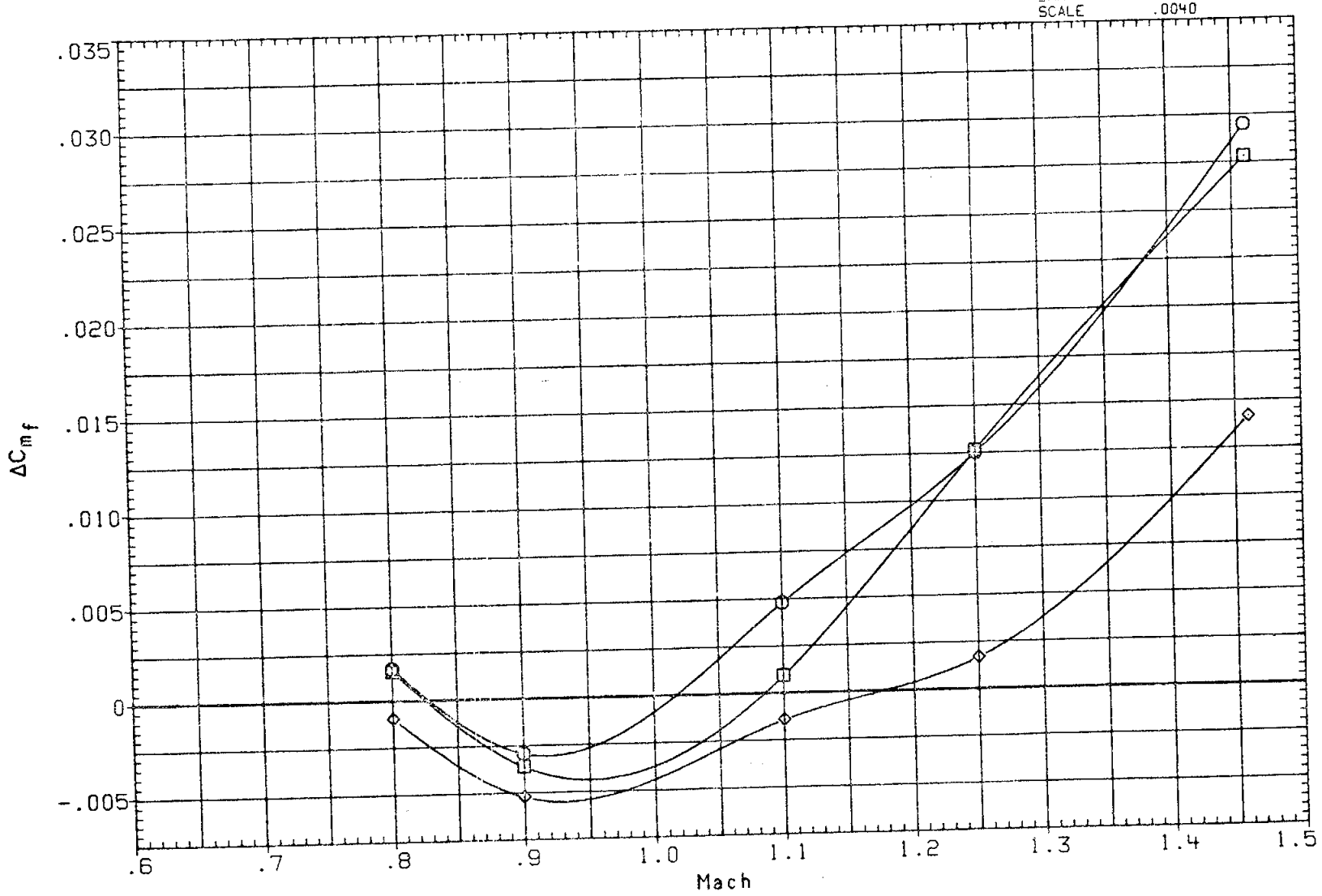

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A) ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

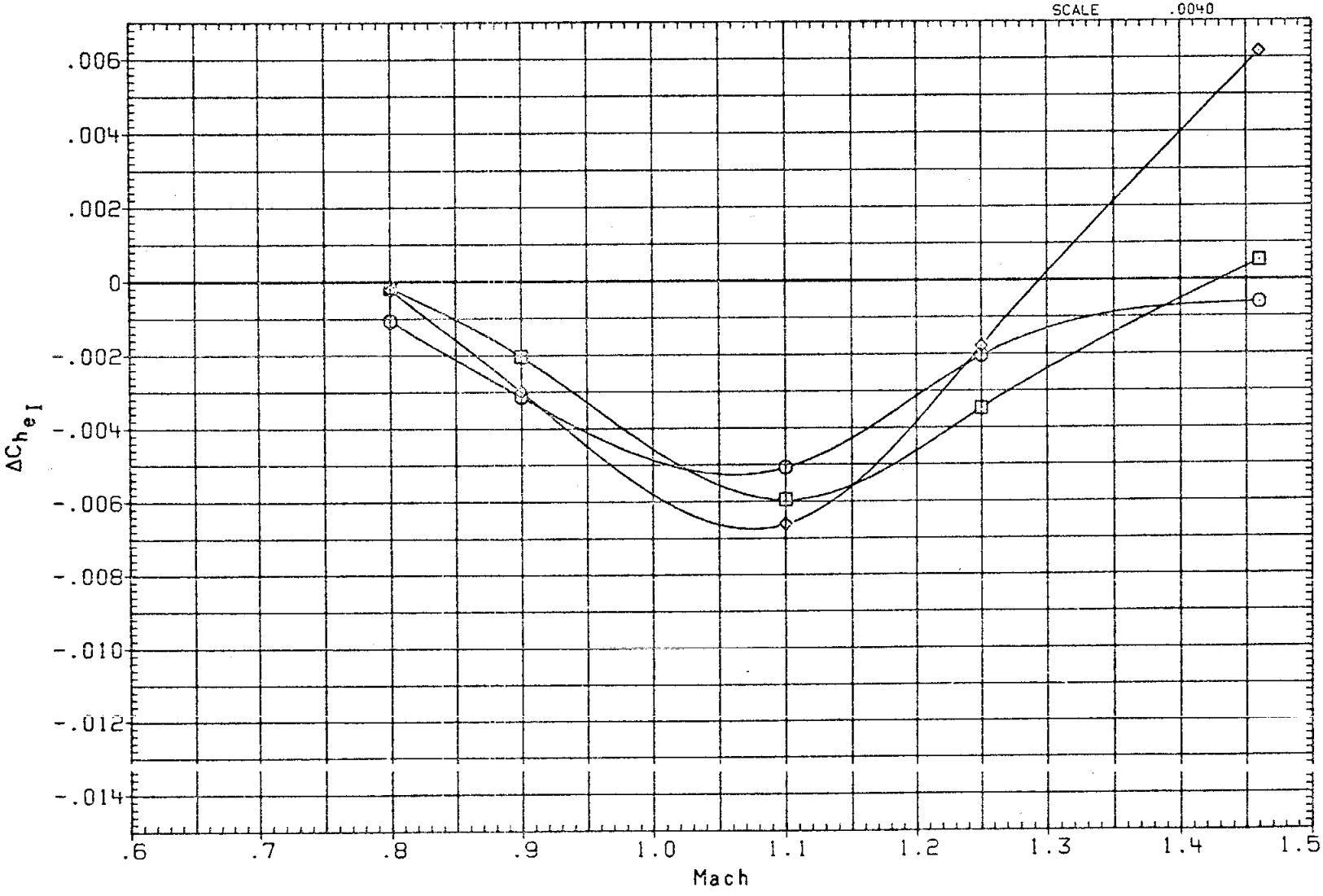

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

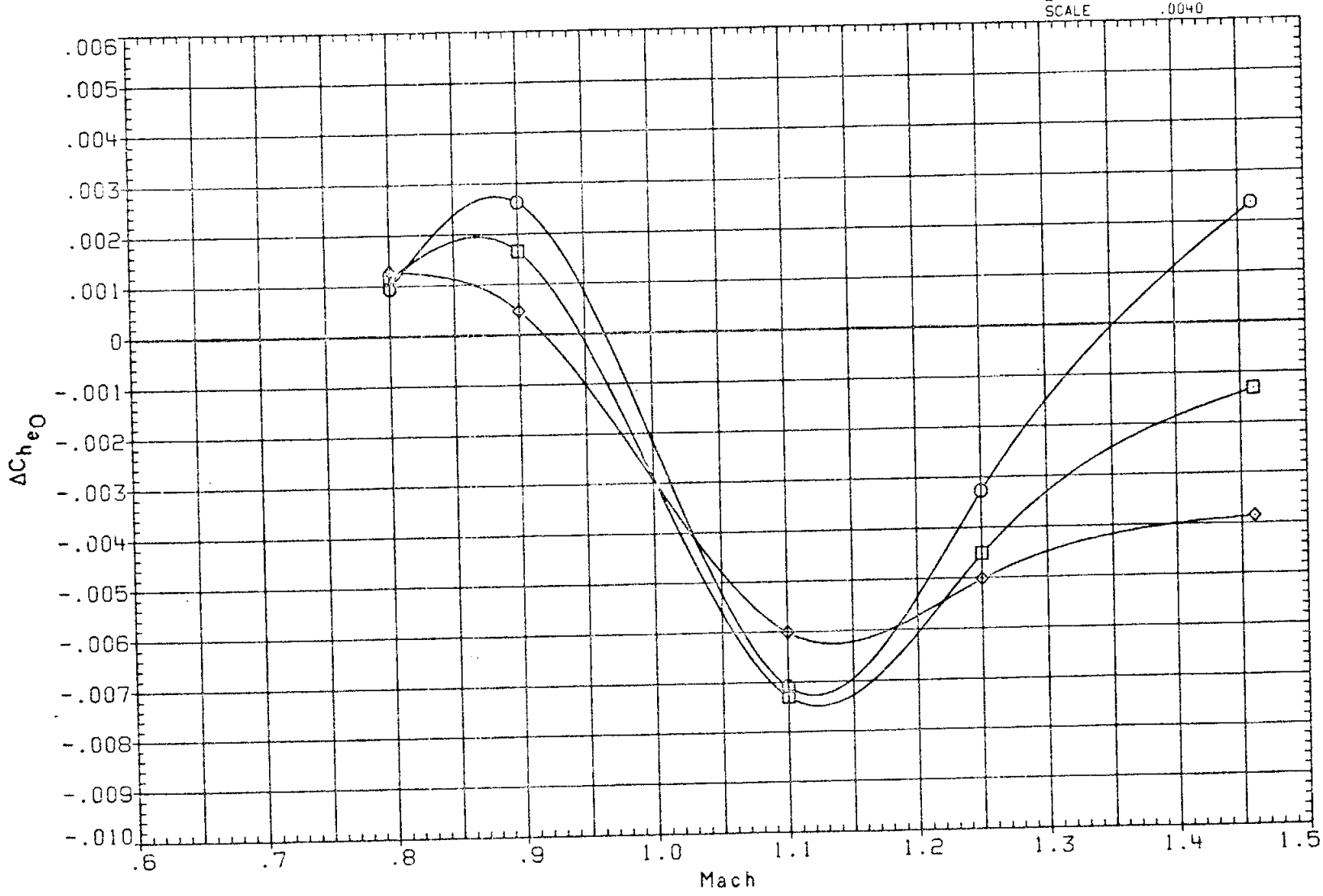

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

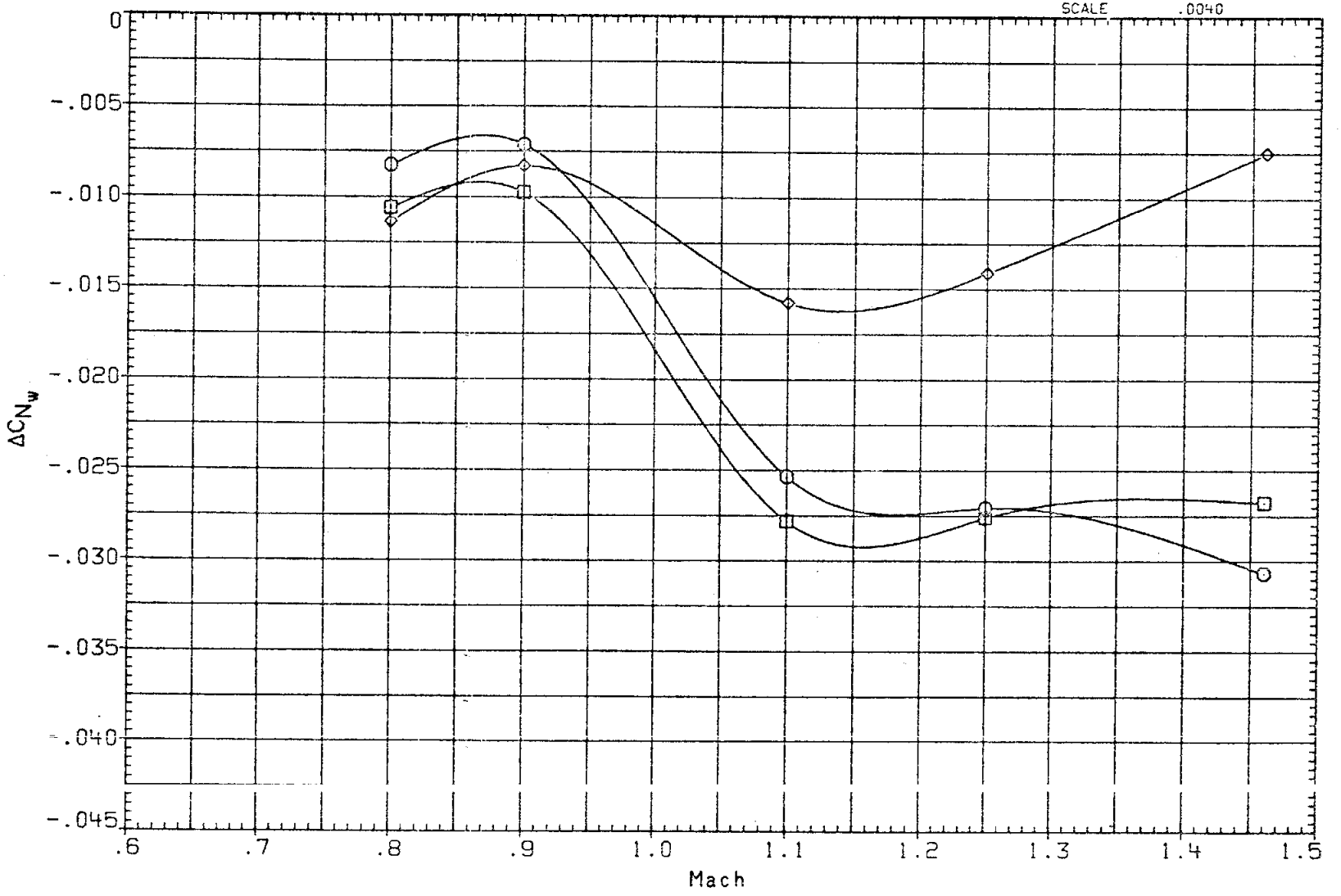

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2590.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

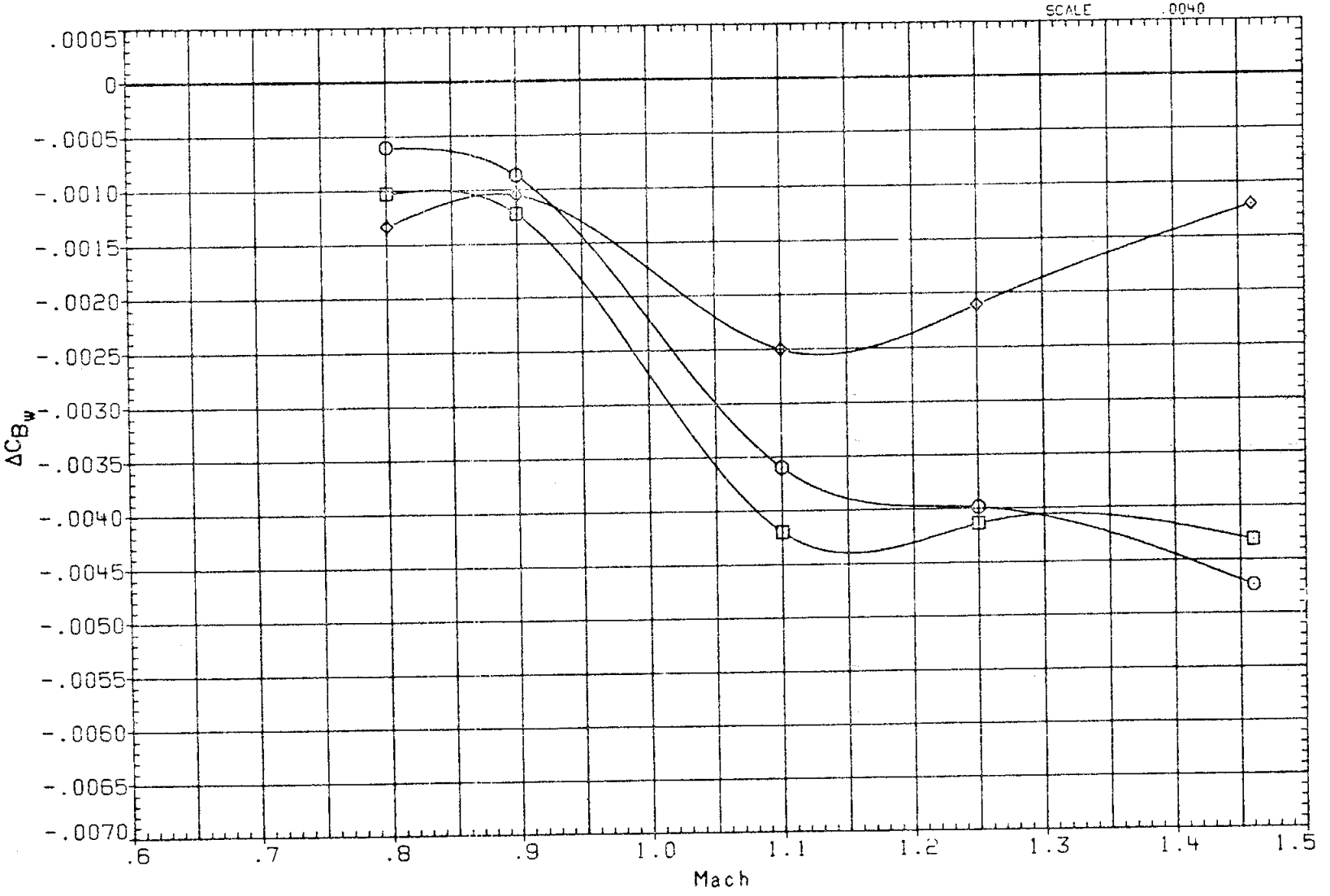

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

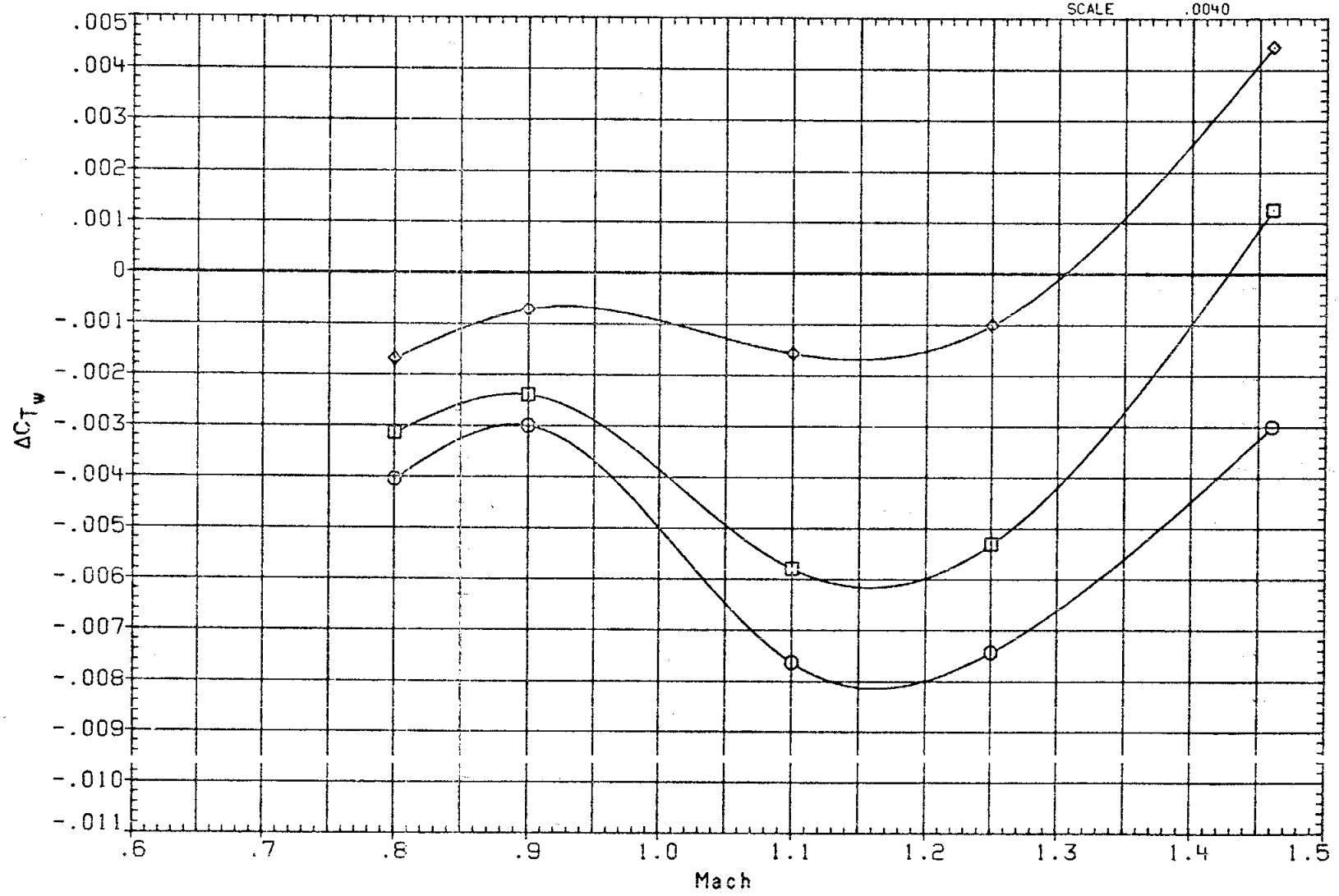

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

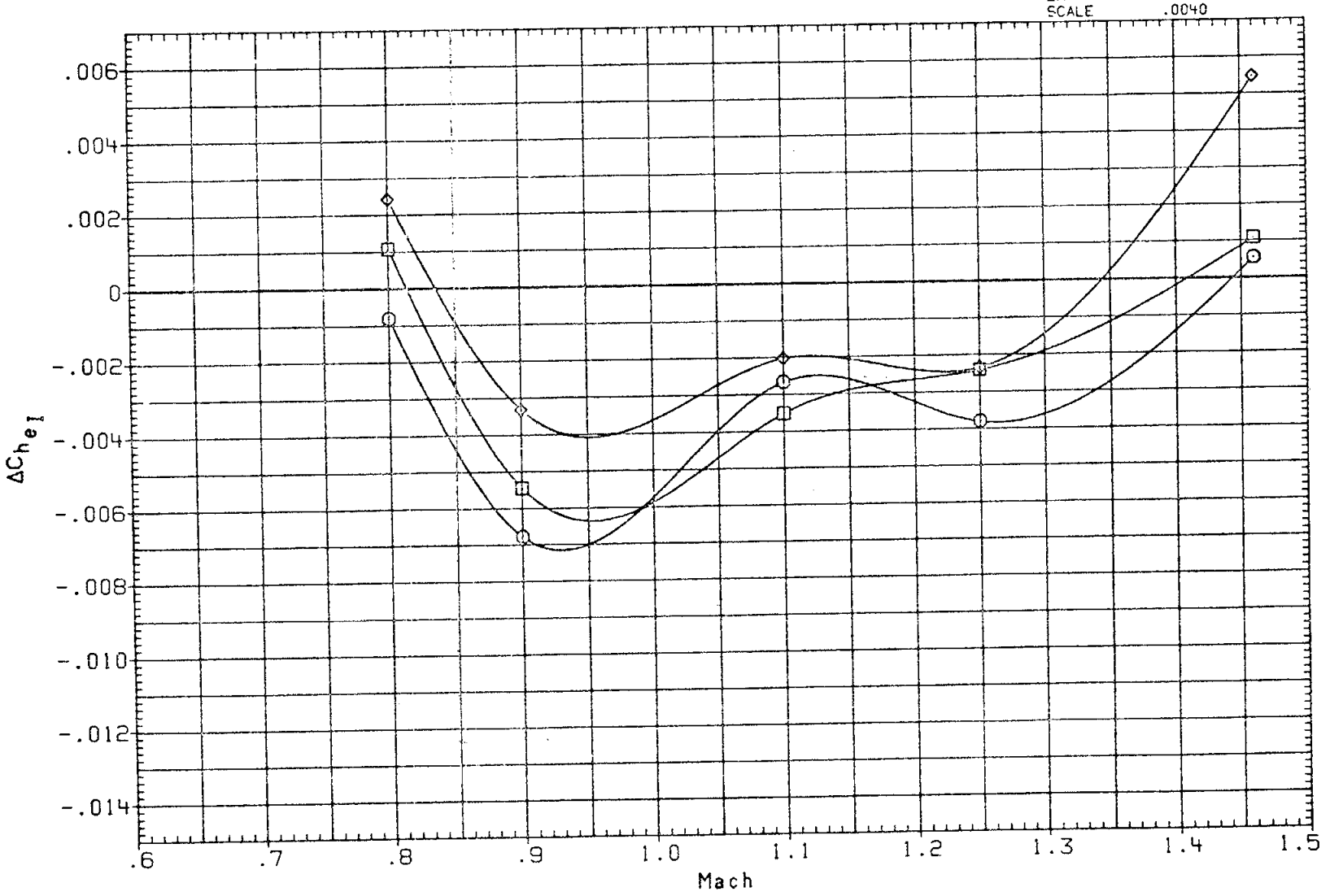

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

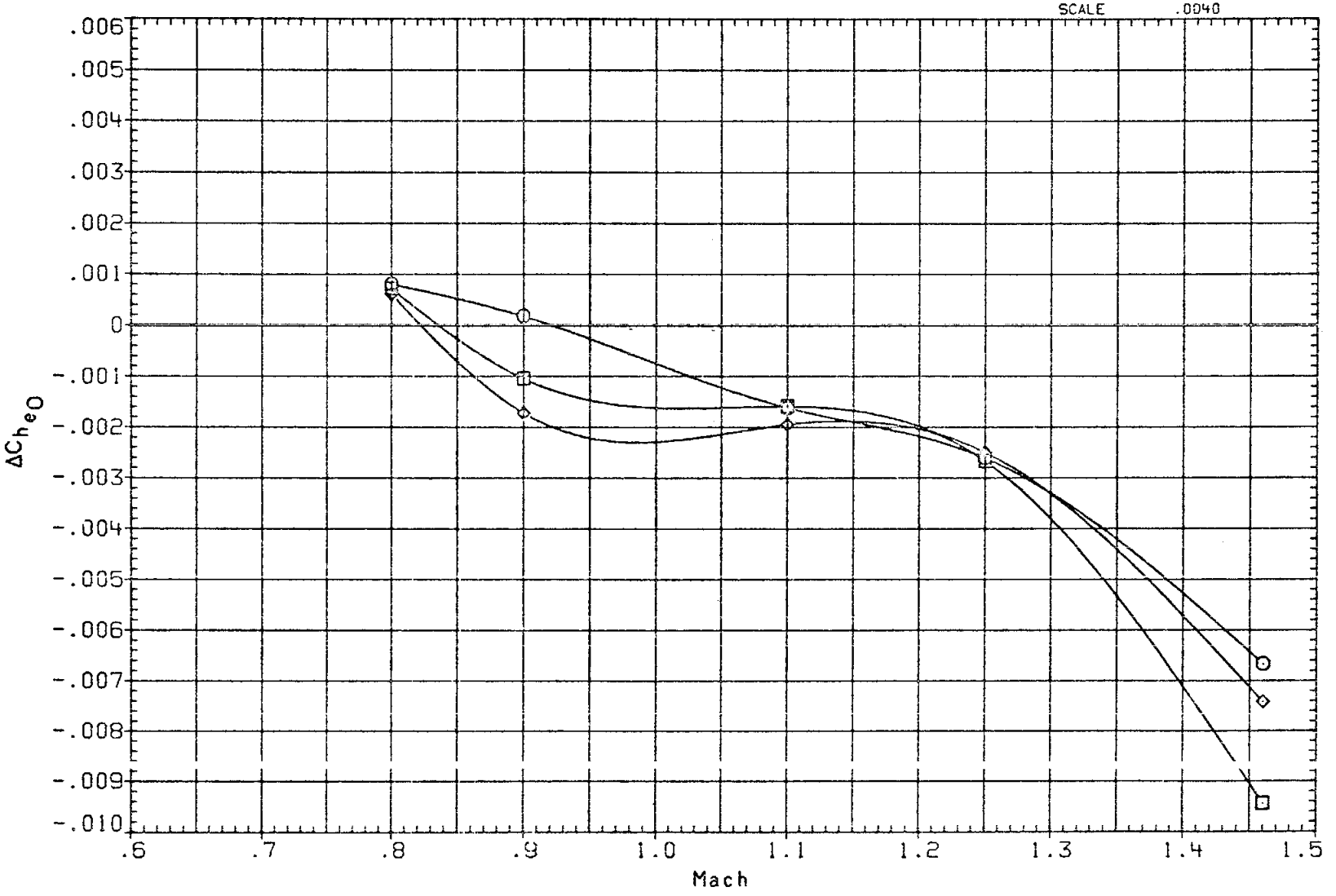

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

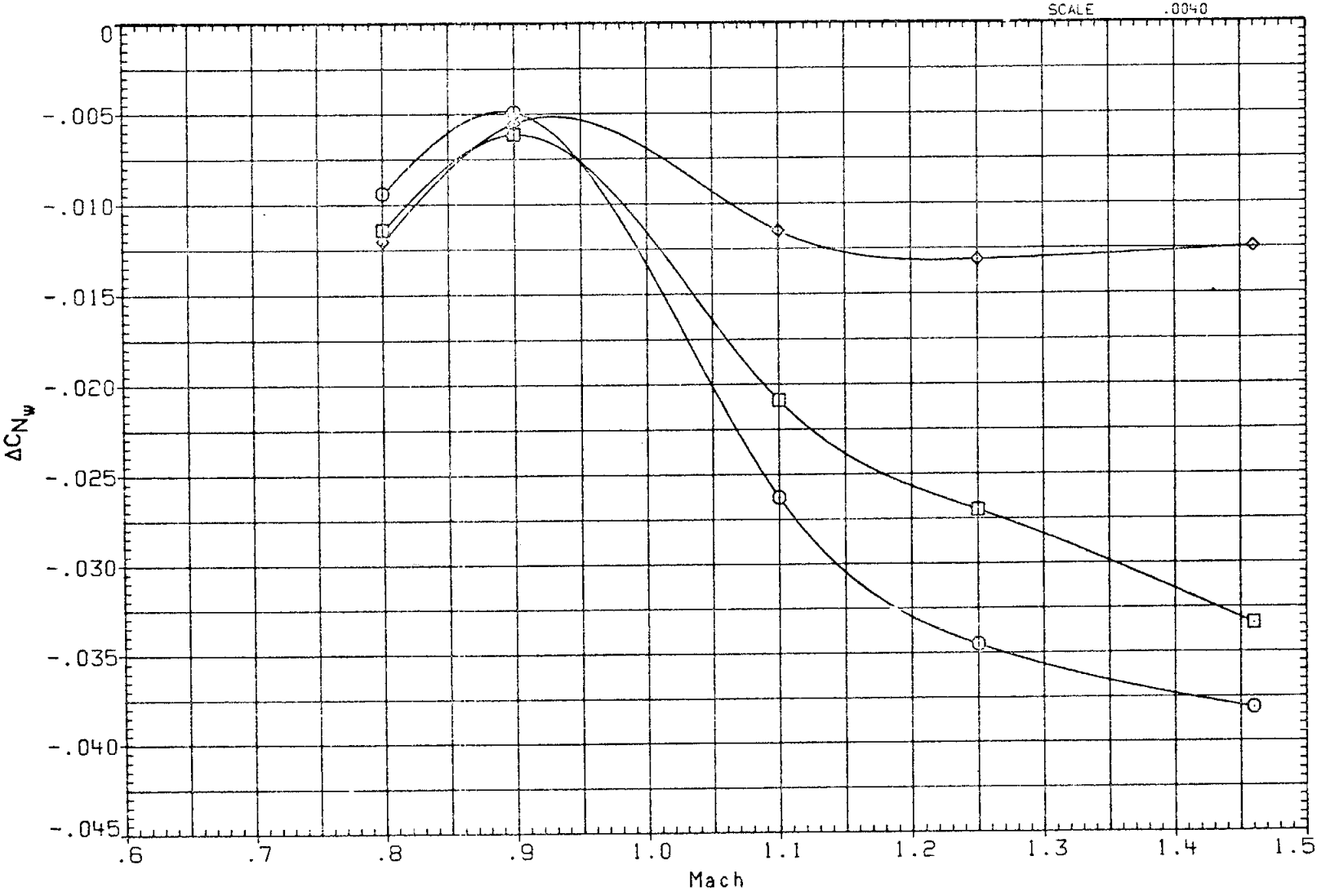

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

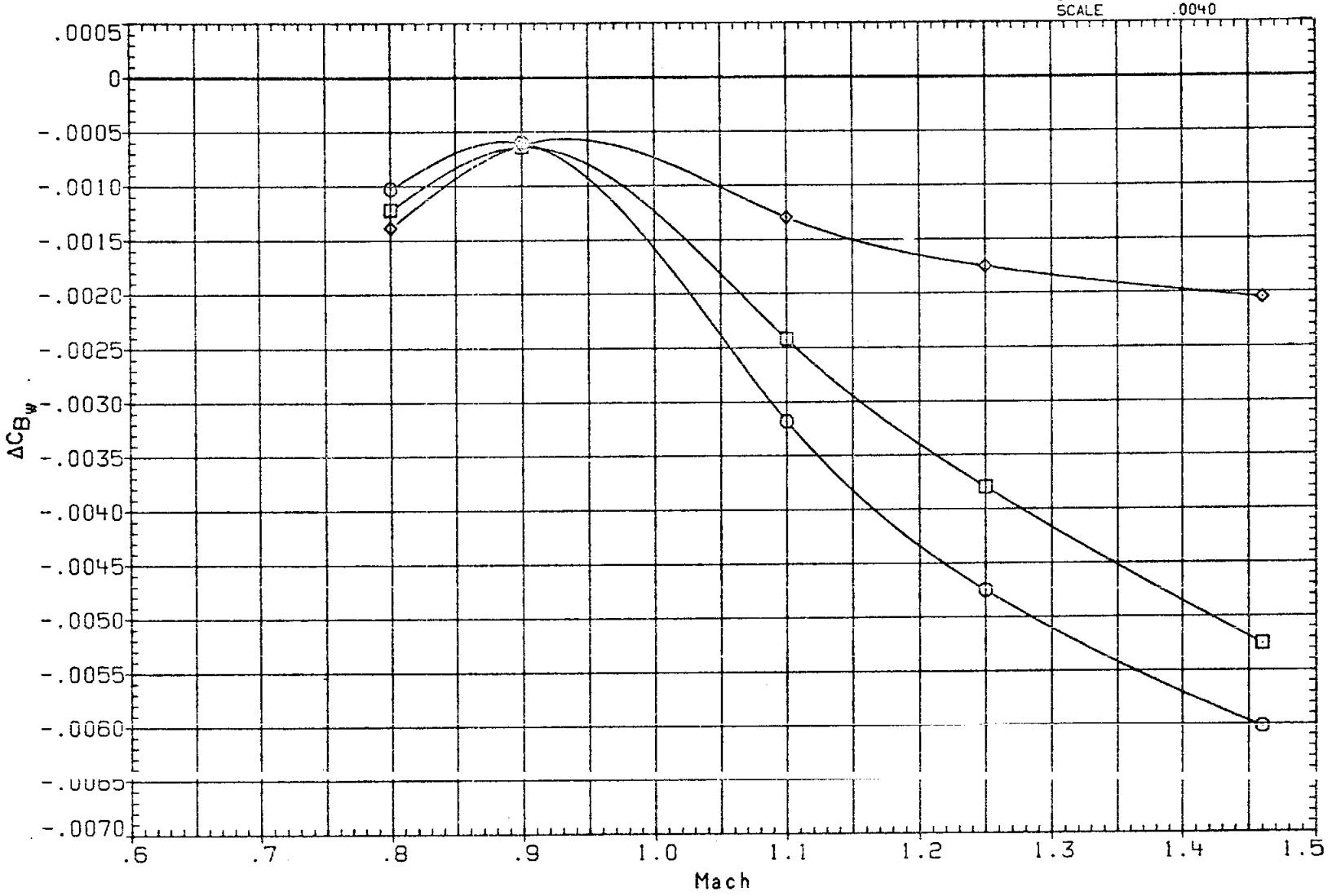

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6005	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6006	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF
IA6007	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF	.000	10.000	5.000	OFF

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

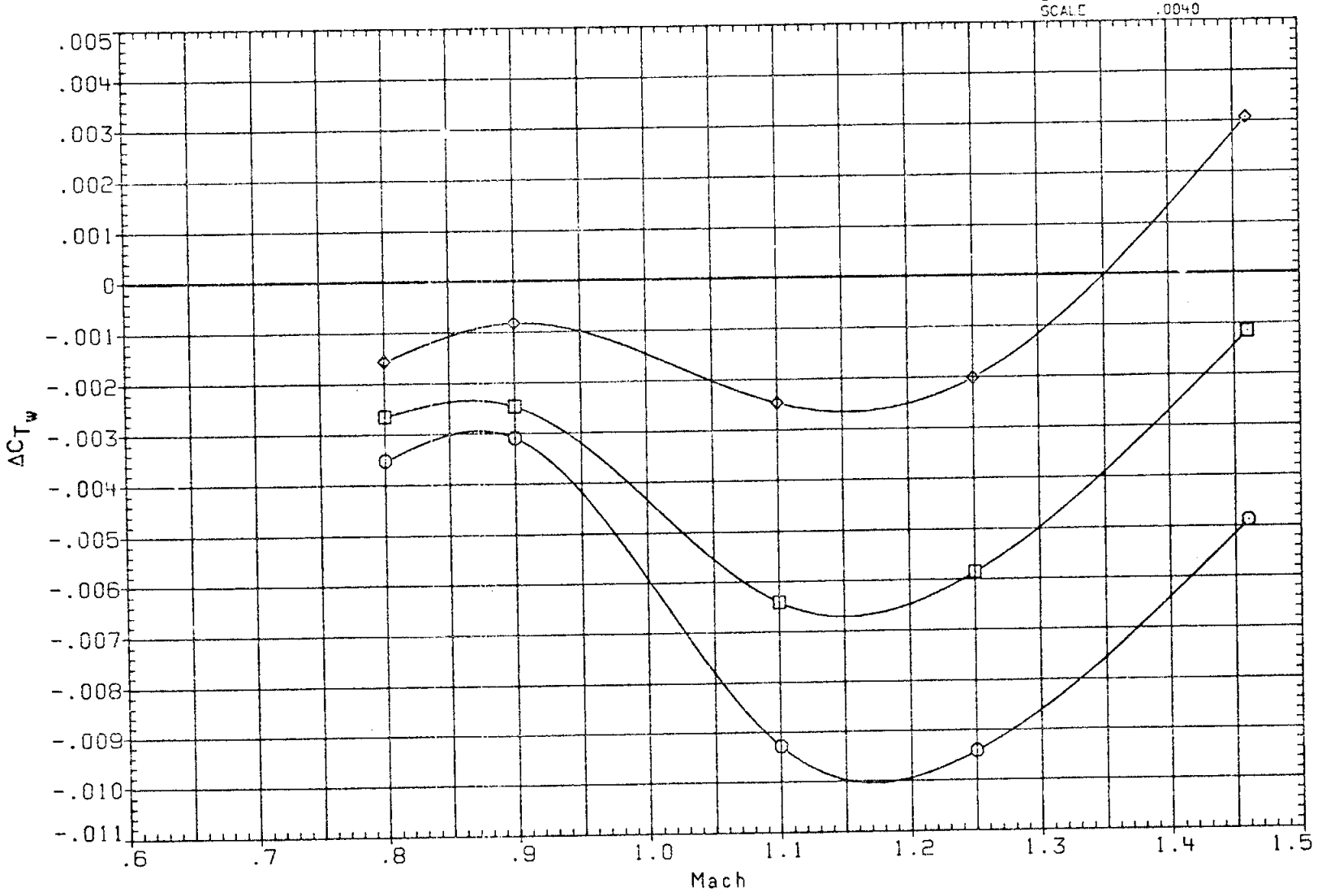

FIG. 15 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME OFF)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
AA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
AA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
AA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

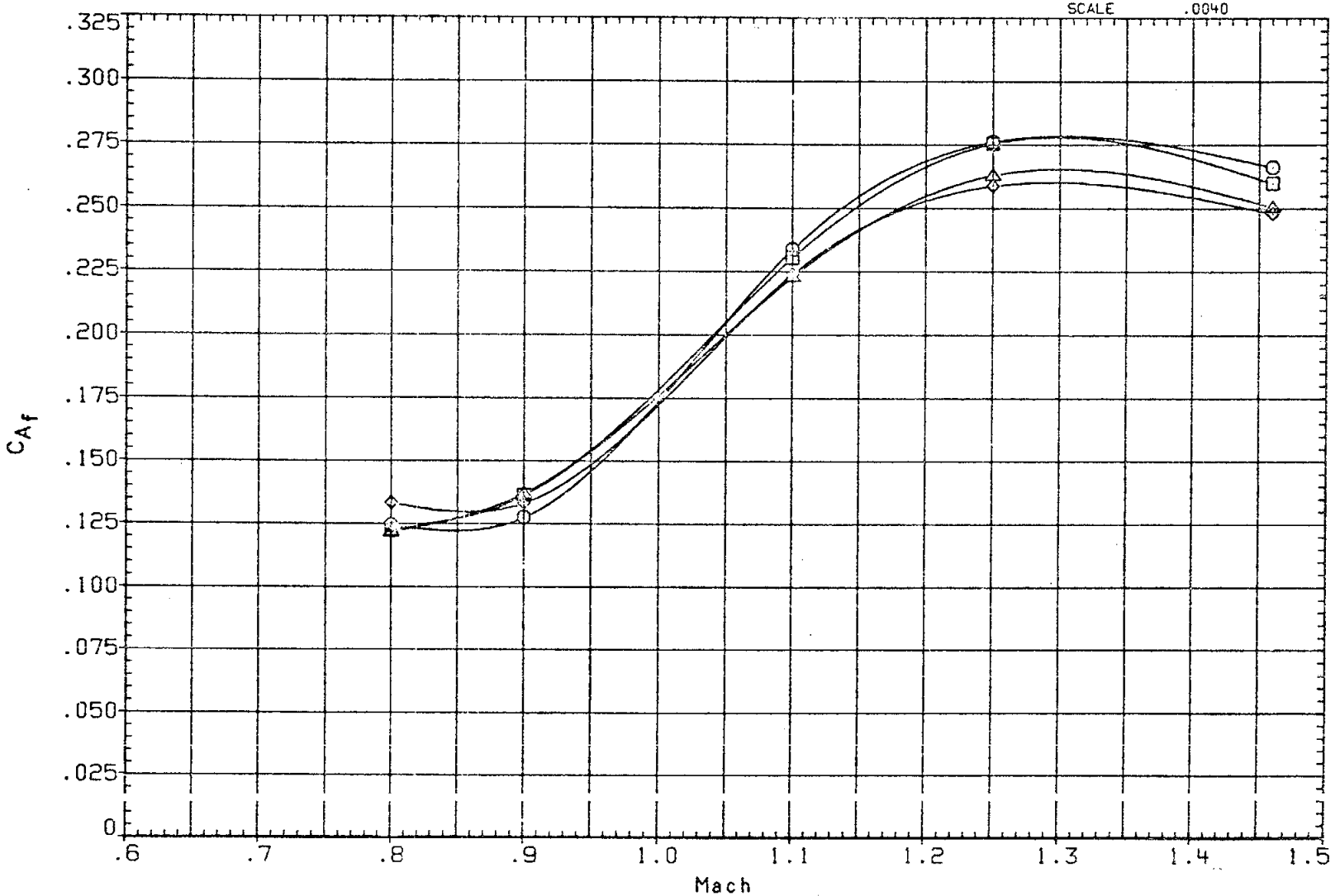

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

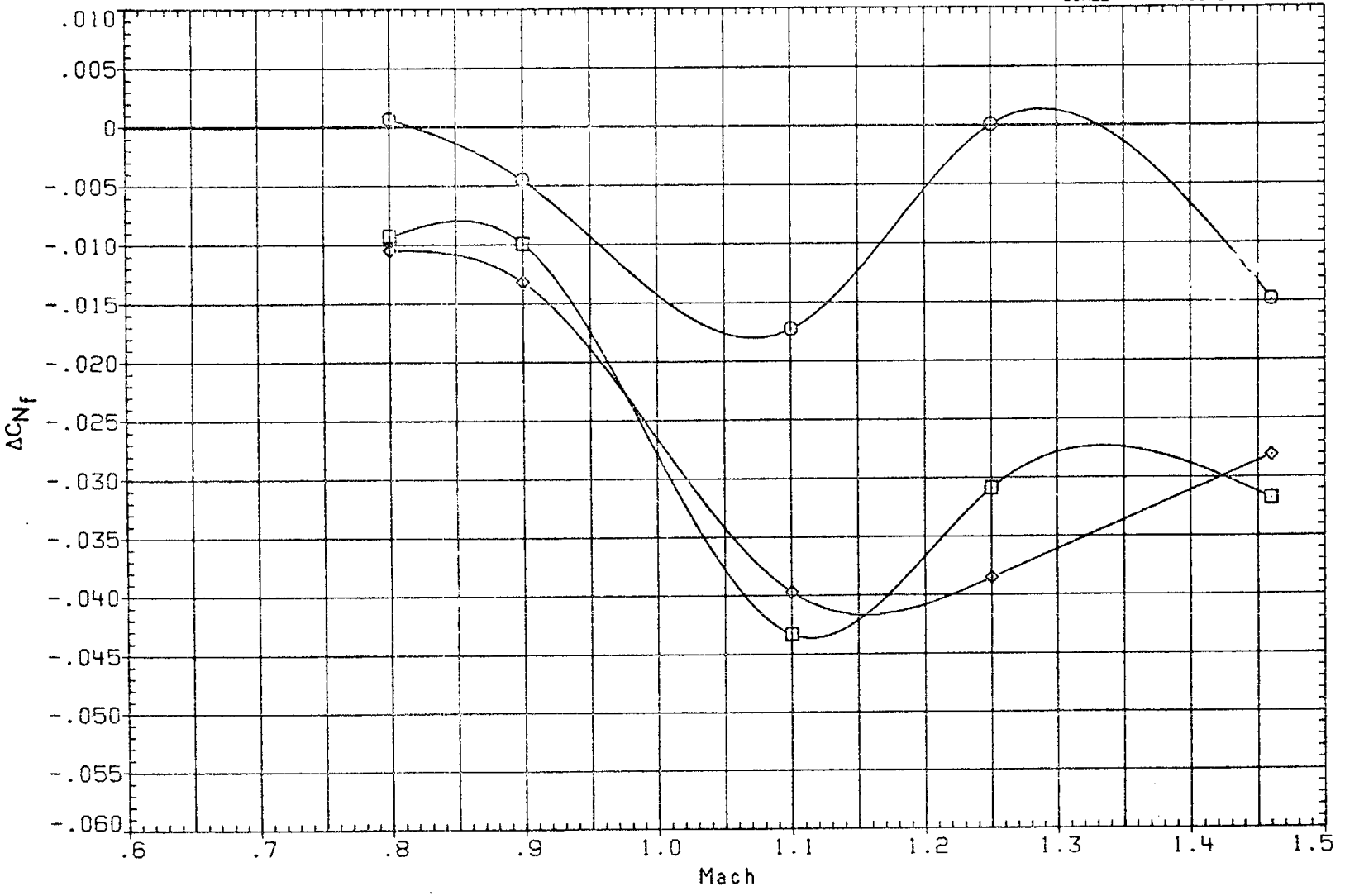

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

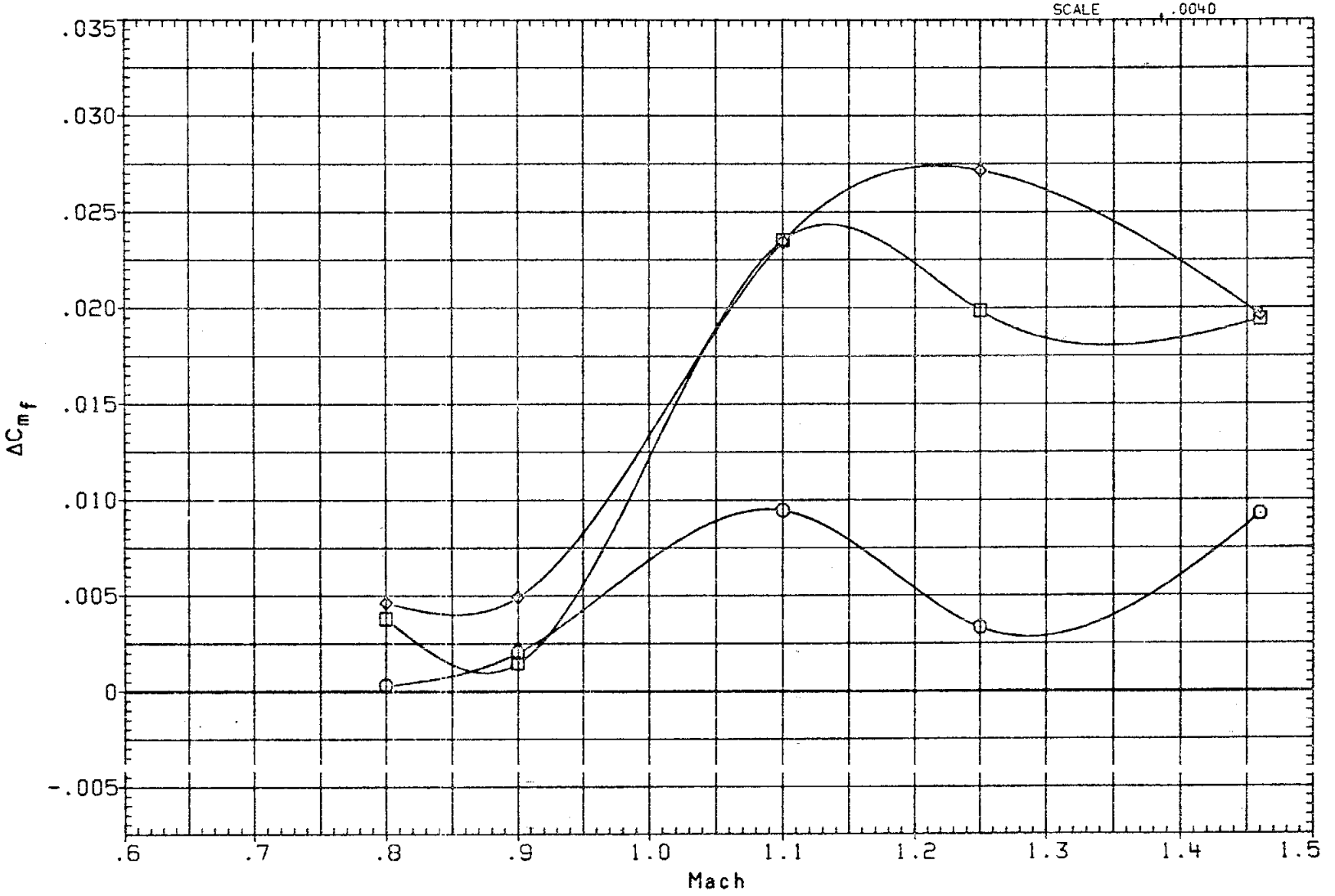

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA5011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
AA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
AA6015	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
AA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

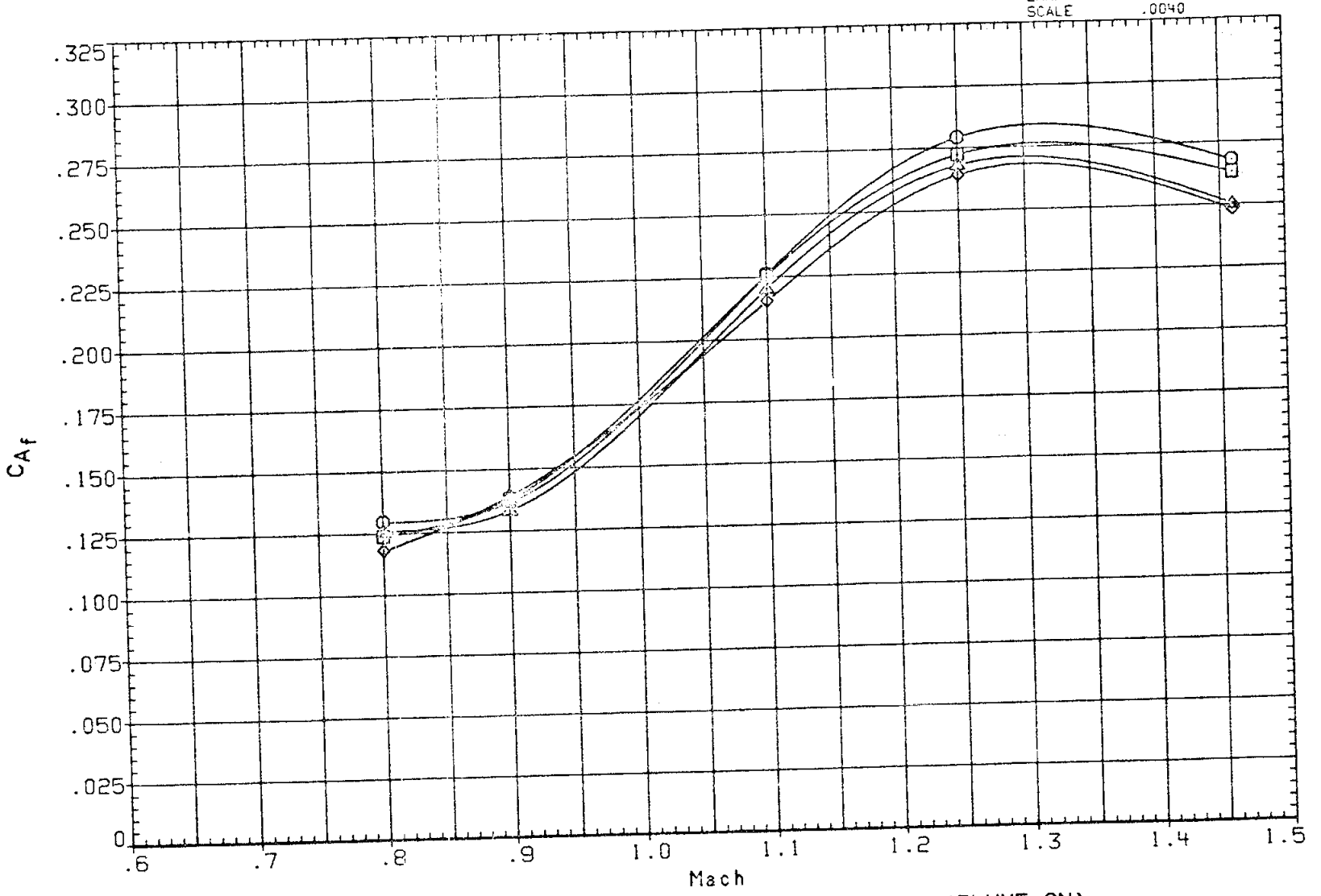

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A) ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

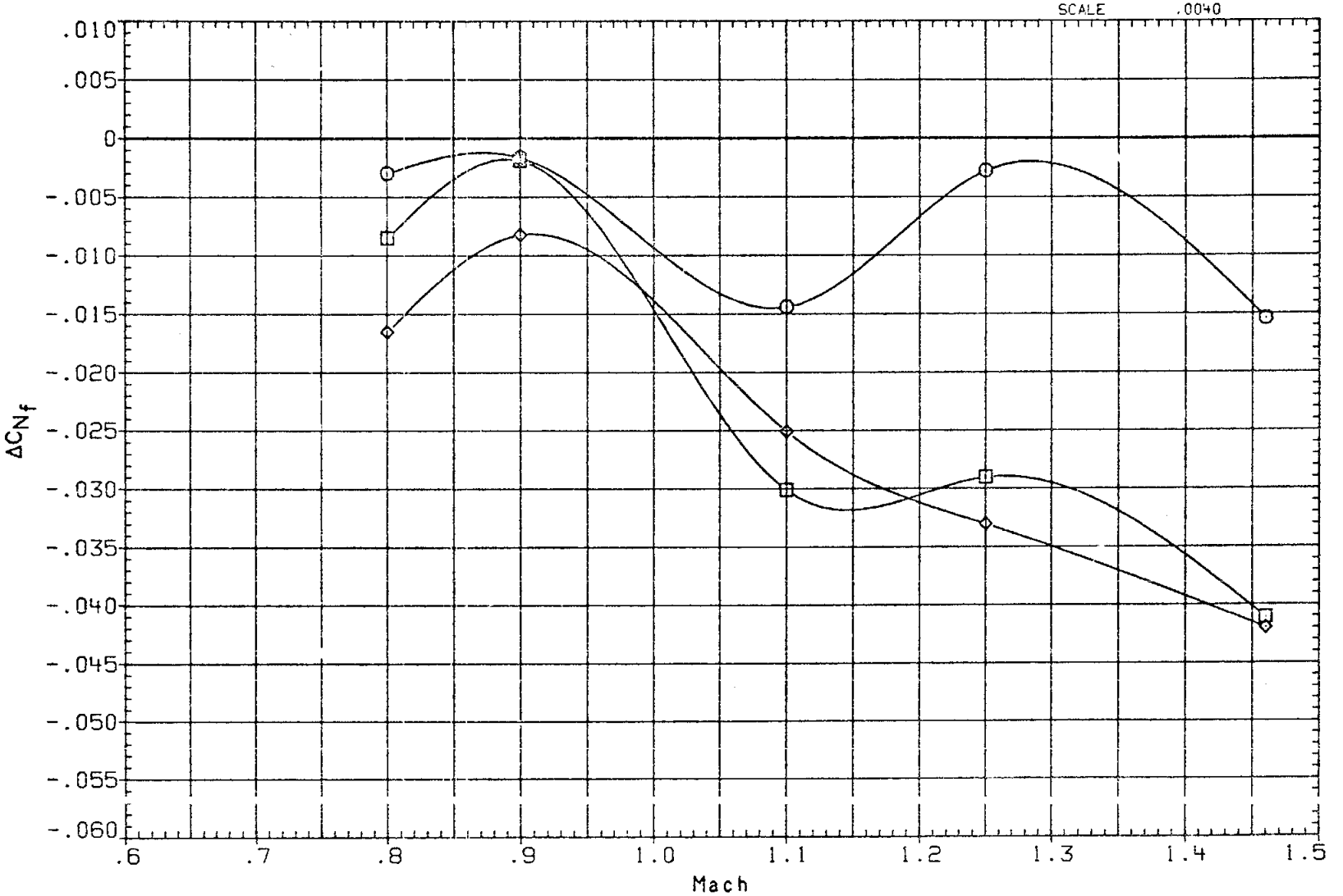

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

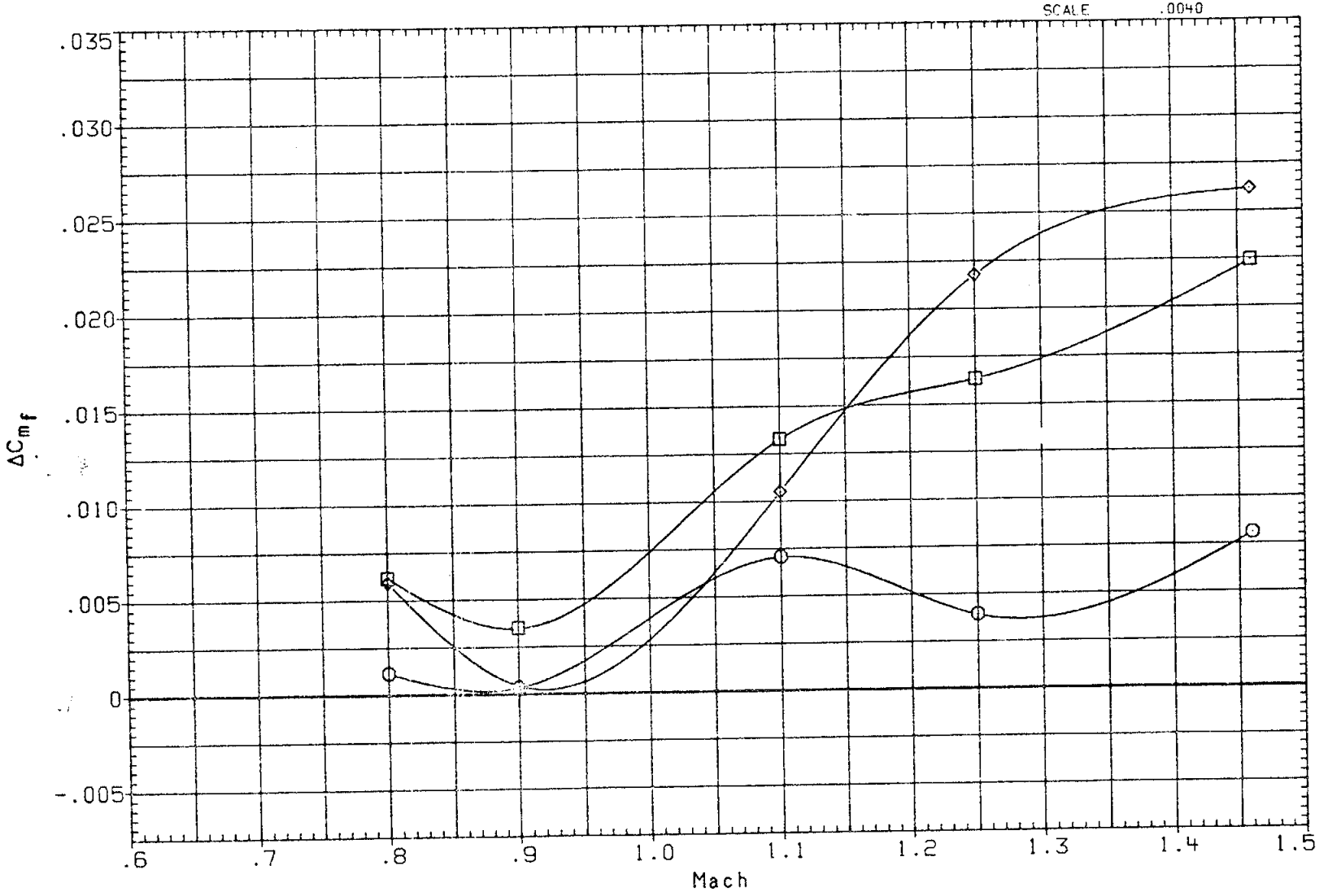

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0010	

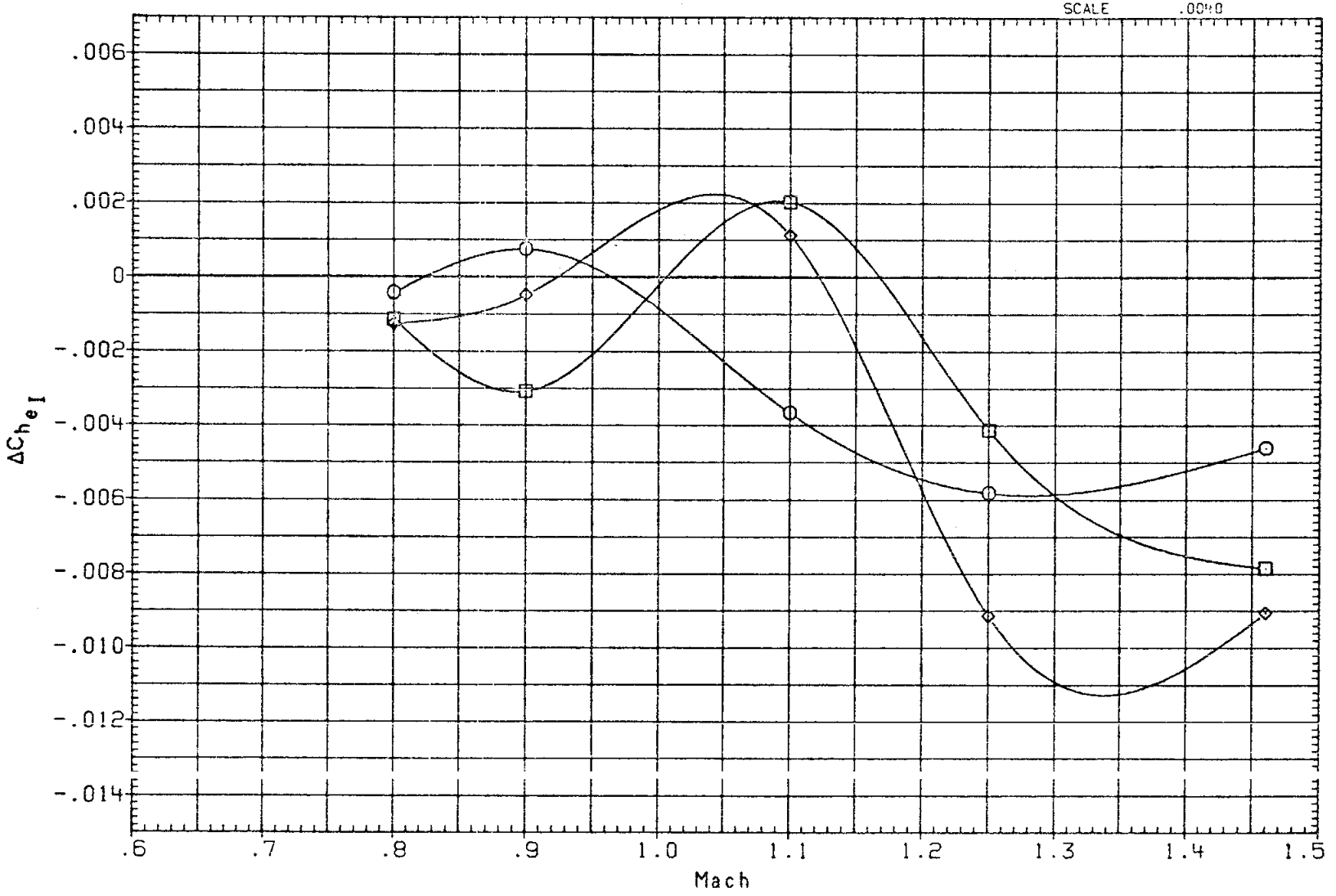

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

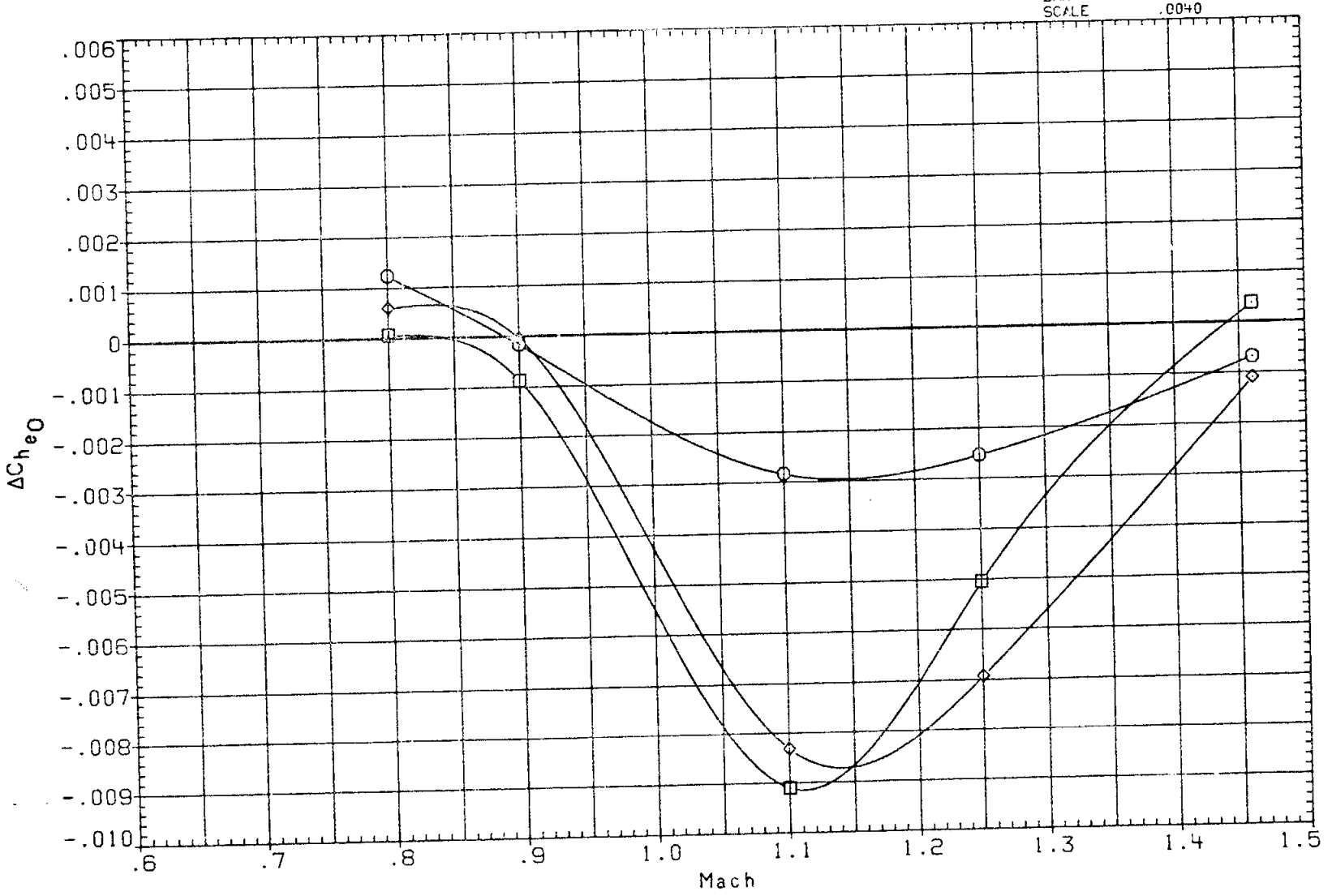

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

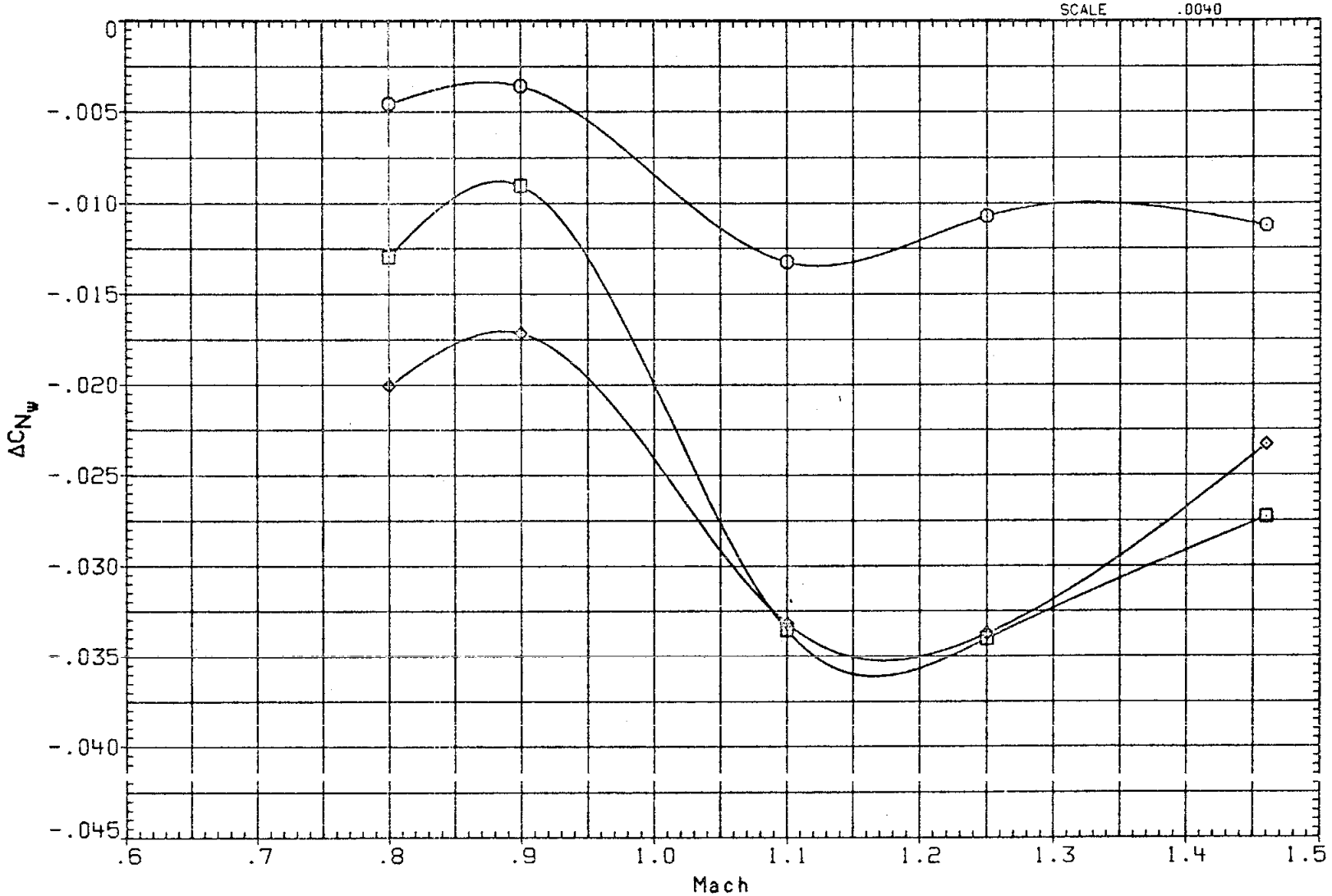

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

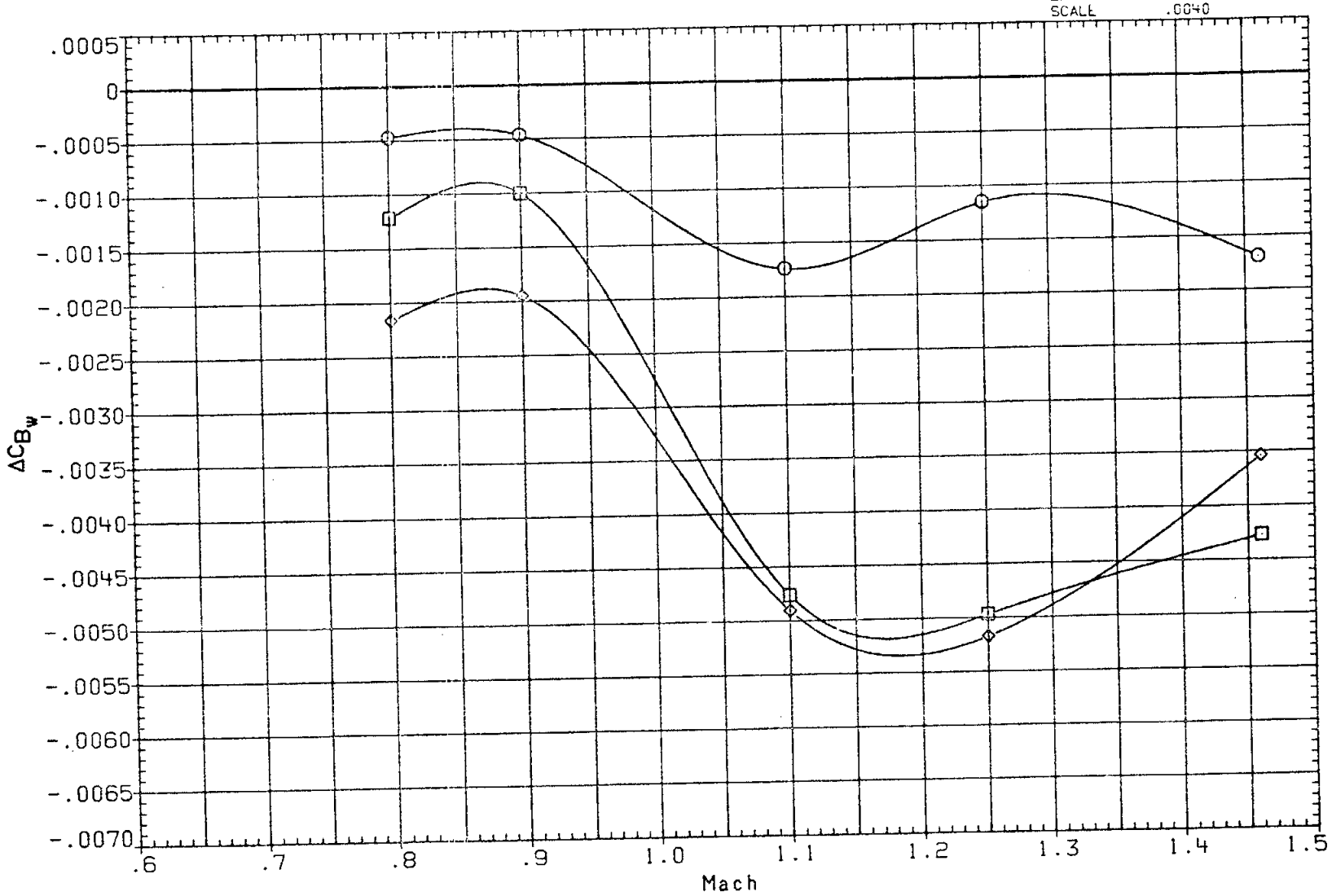

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	876.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

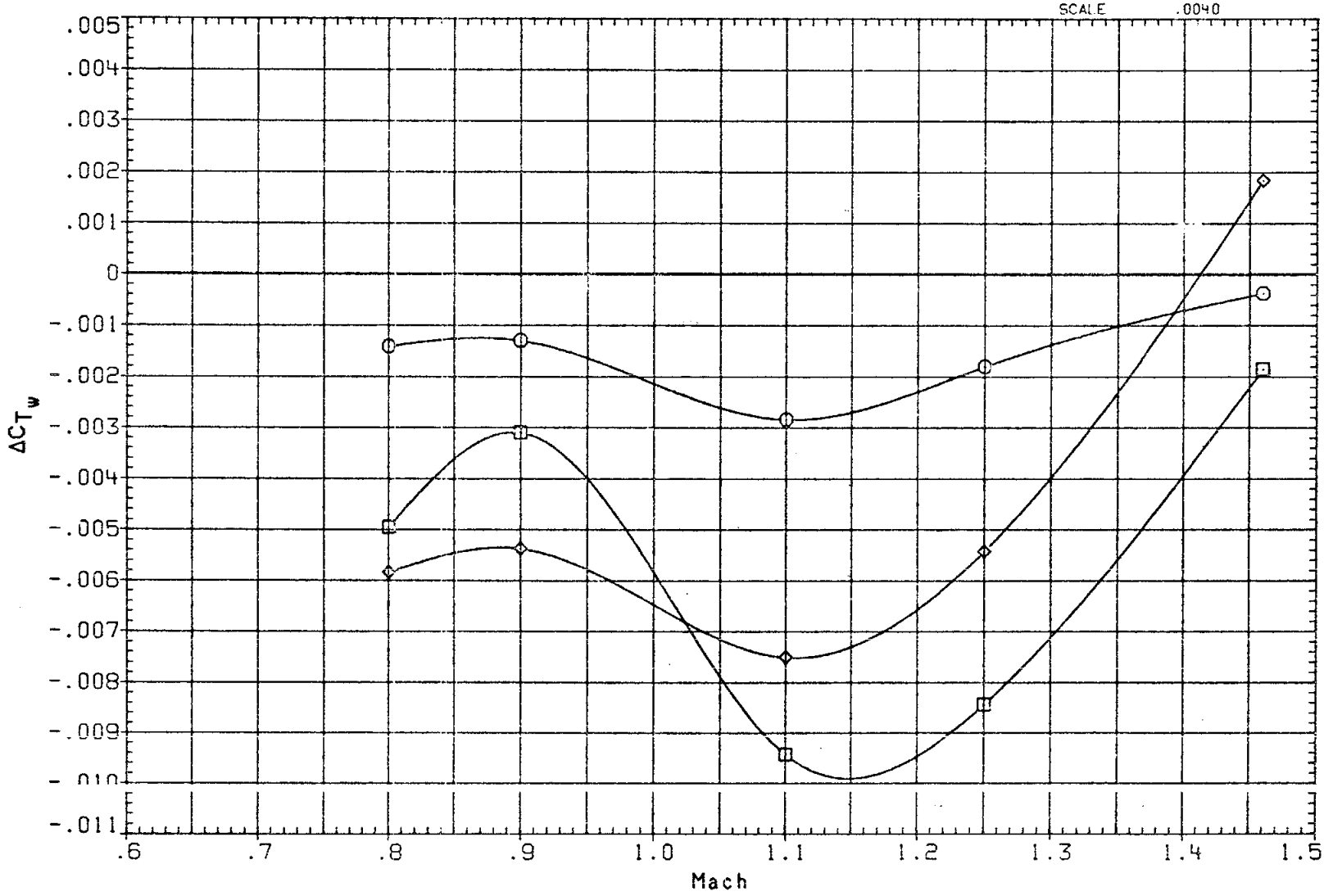

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

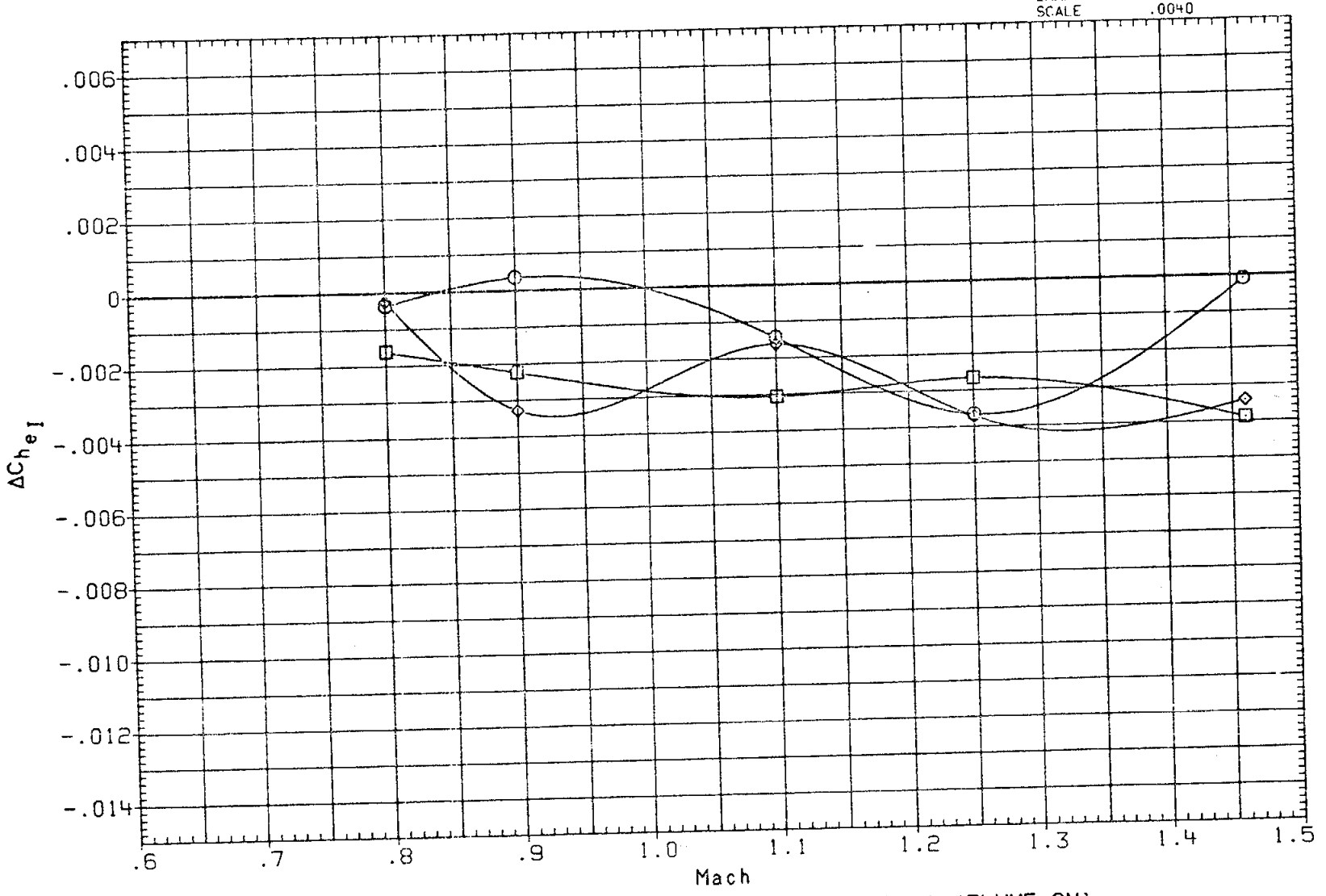

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

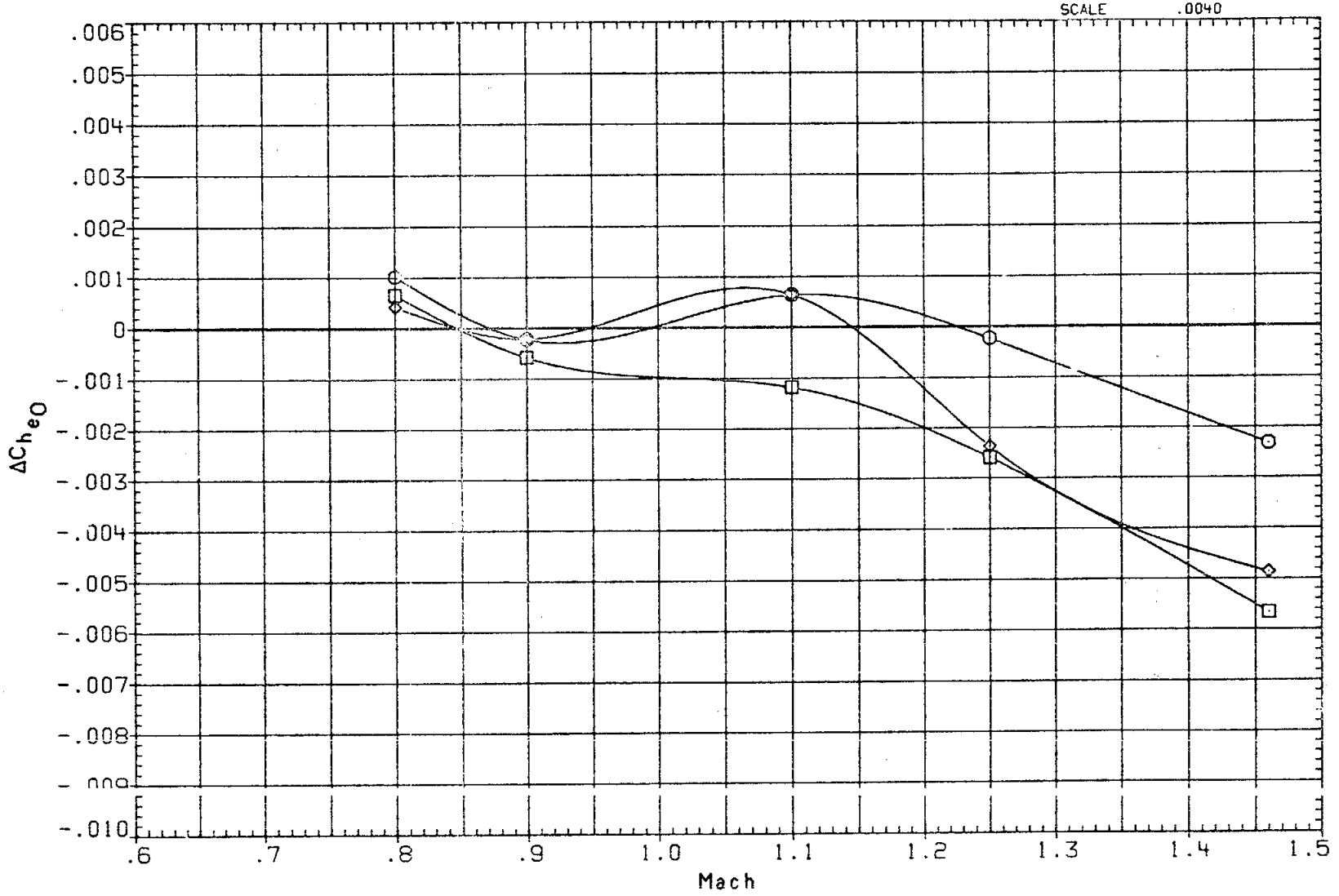

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

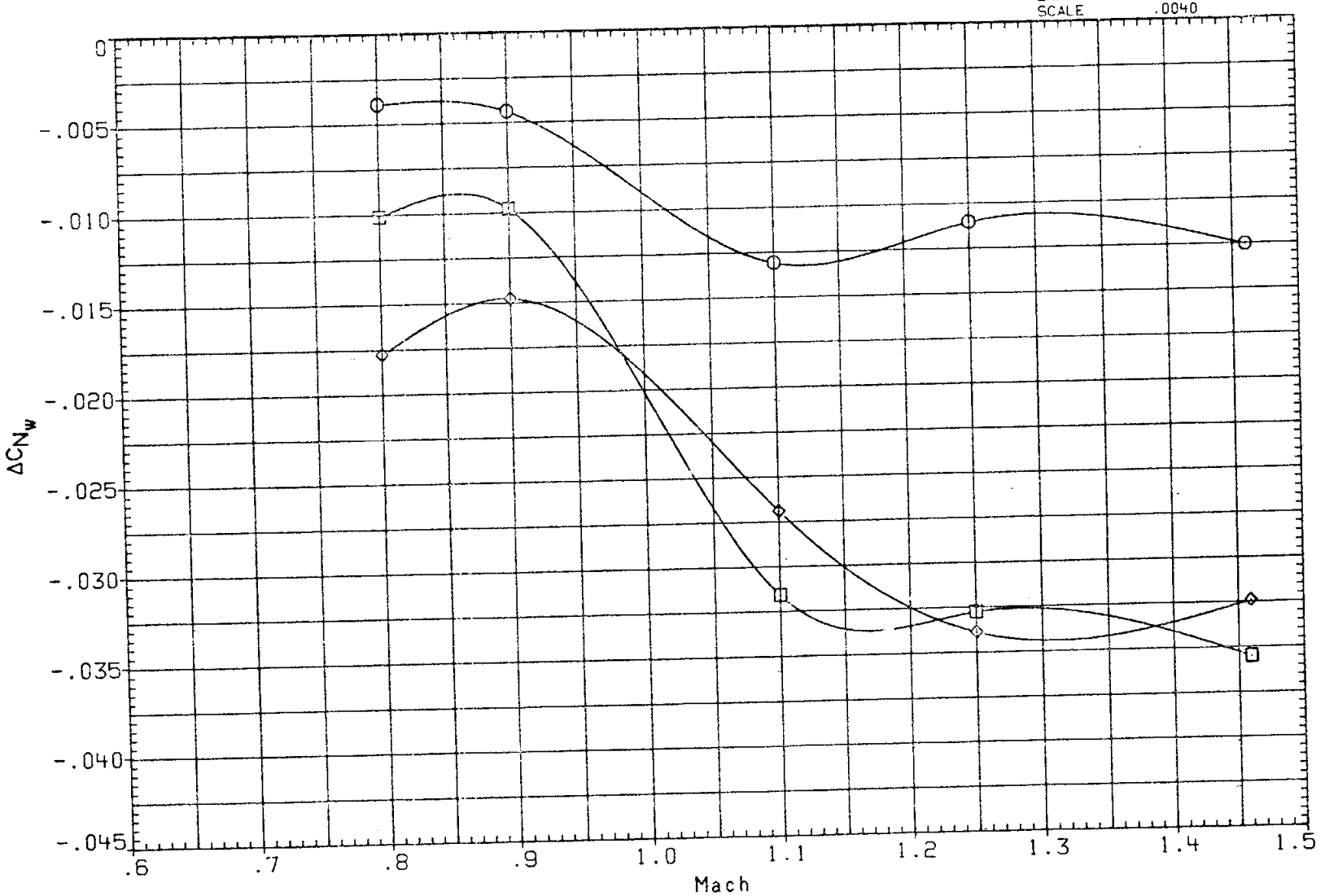

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

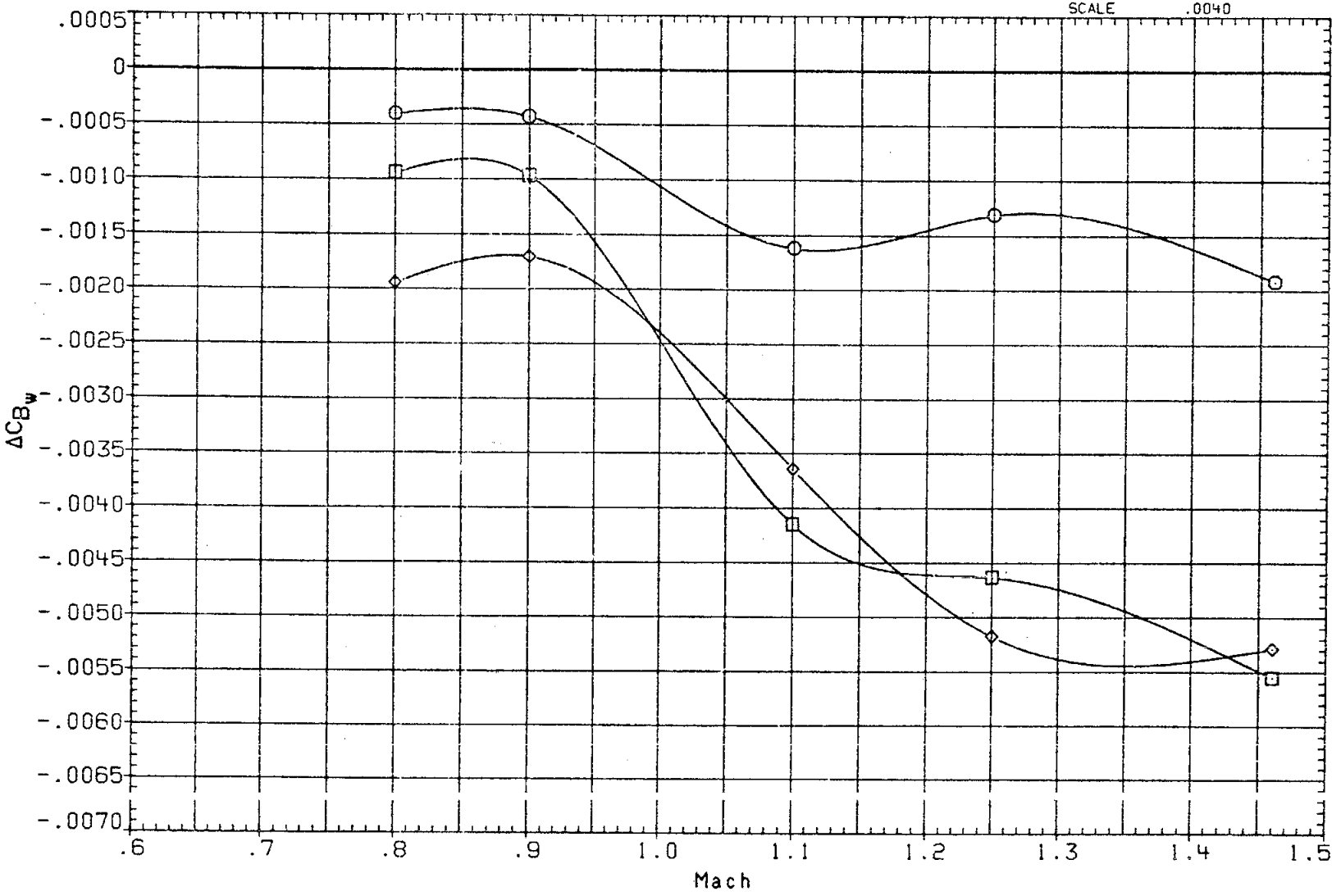

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6015	□	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

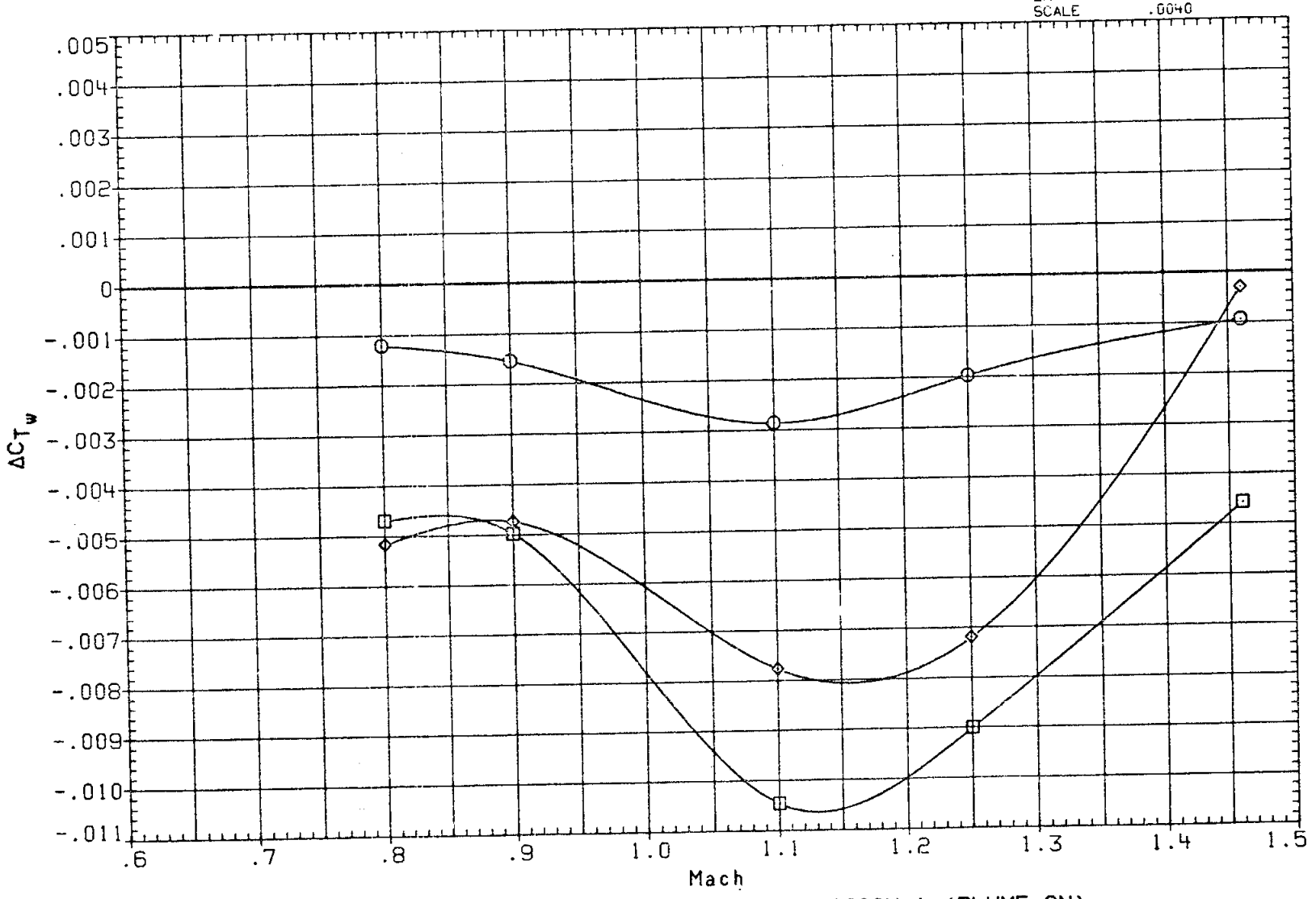

FIG. 16 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 1 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
AA6013	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
AA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
AA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

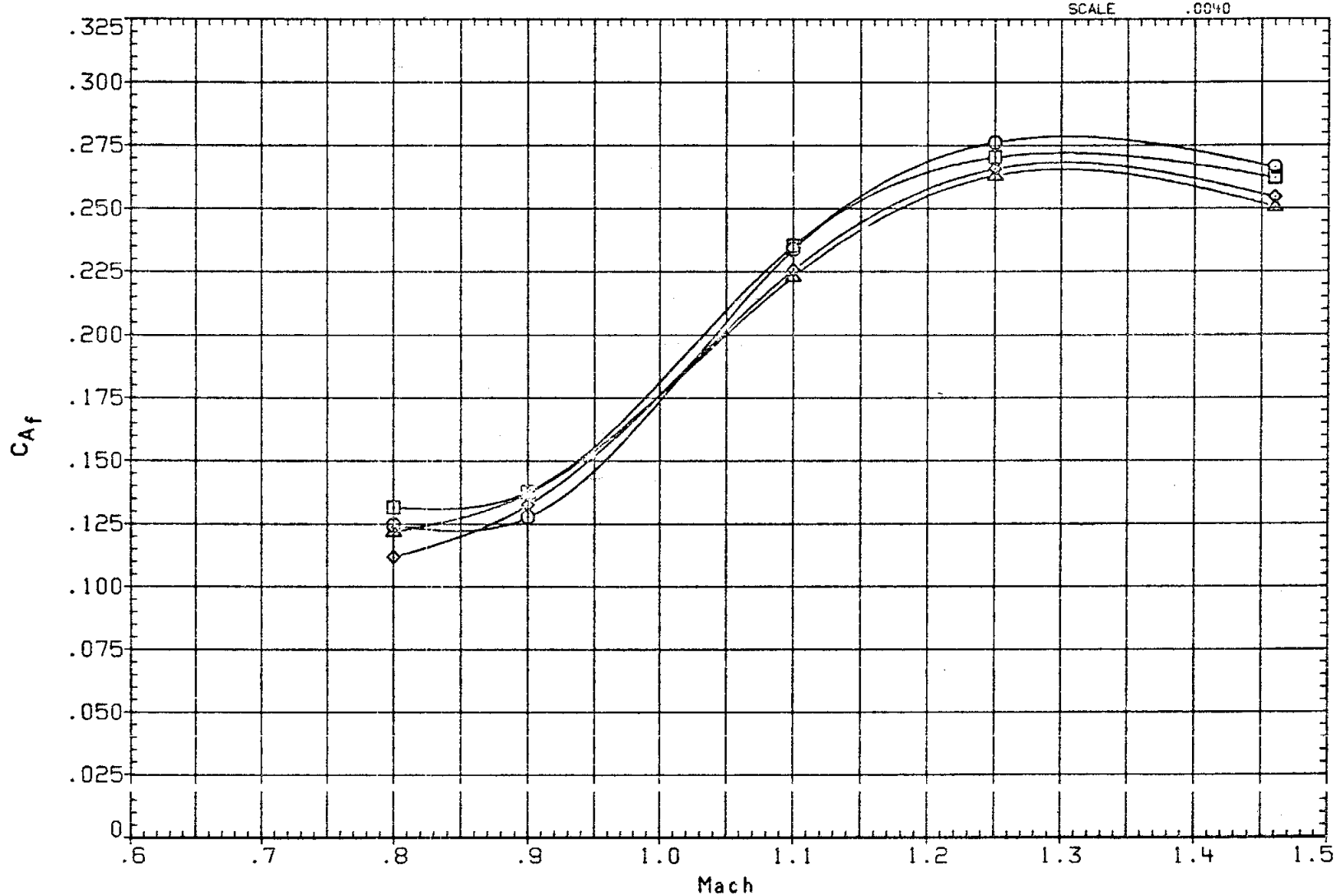

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

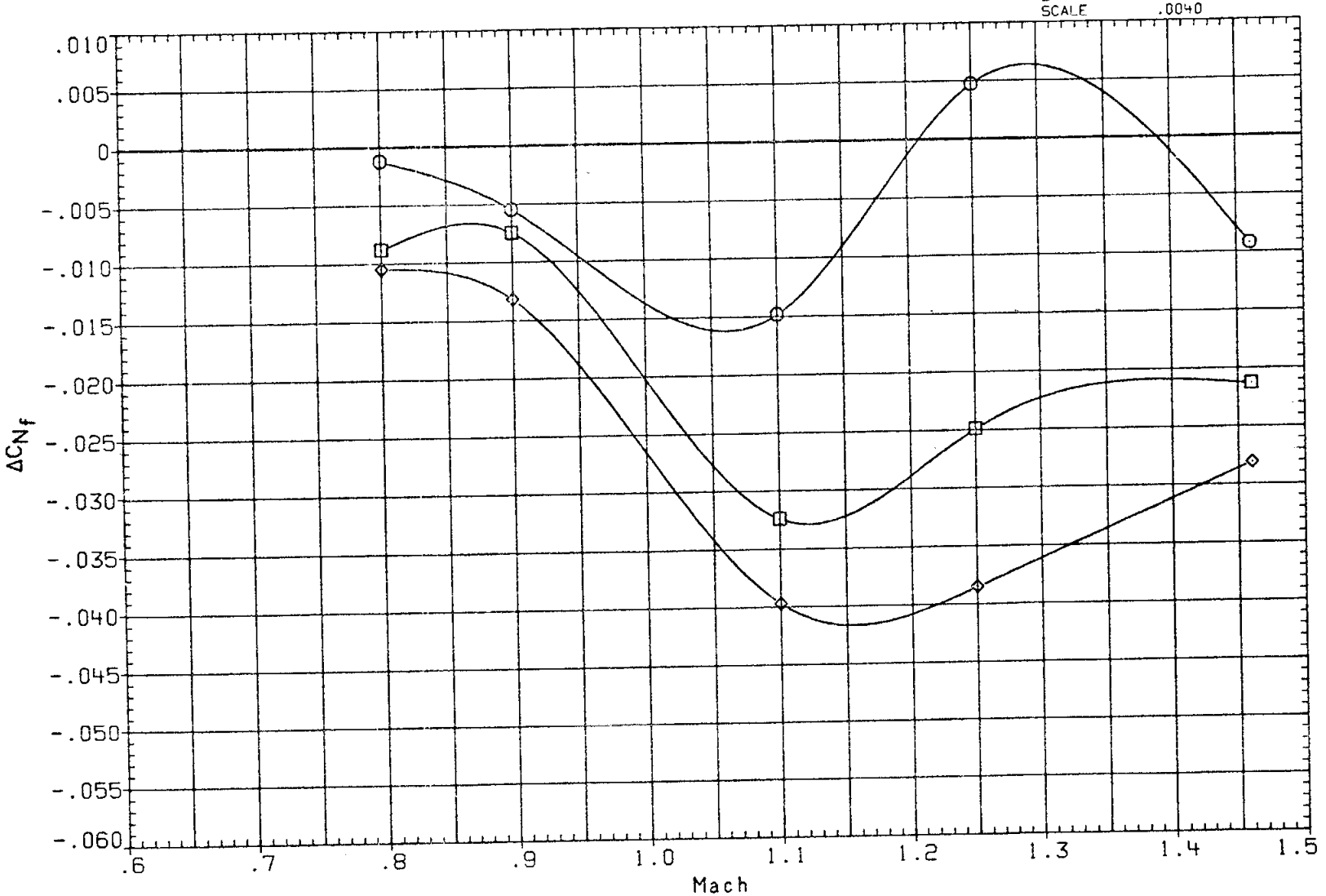

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

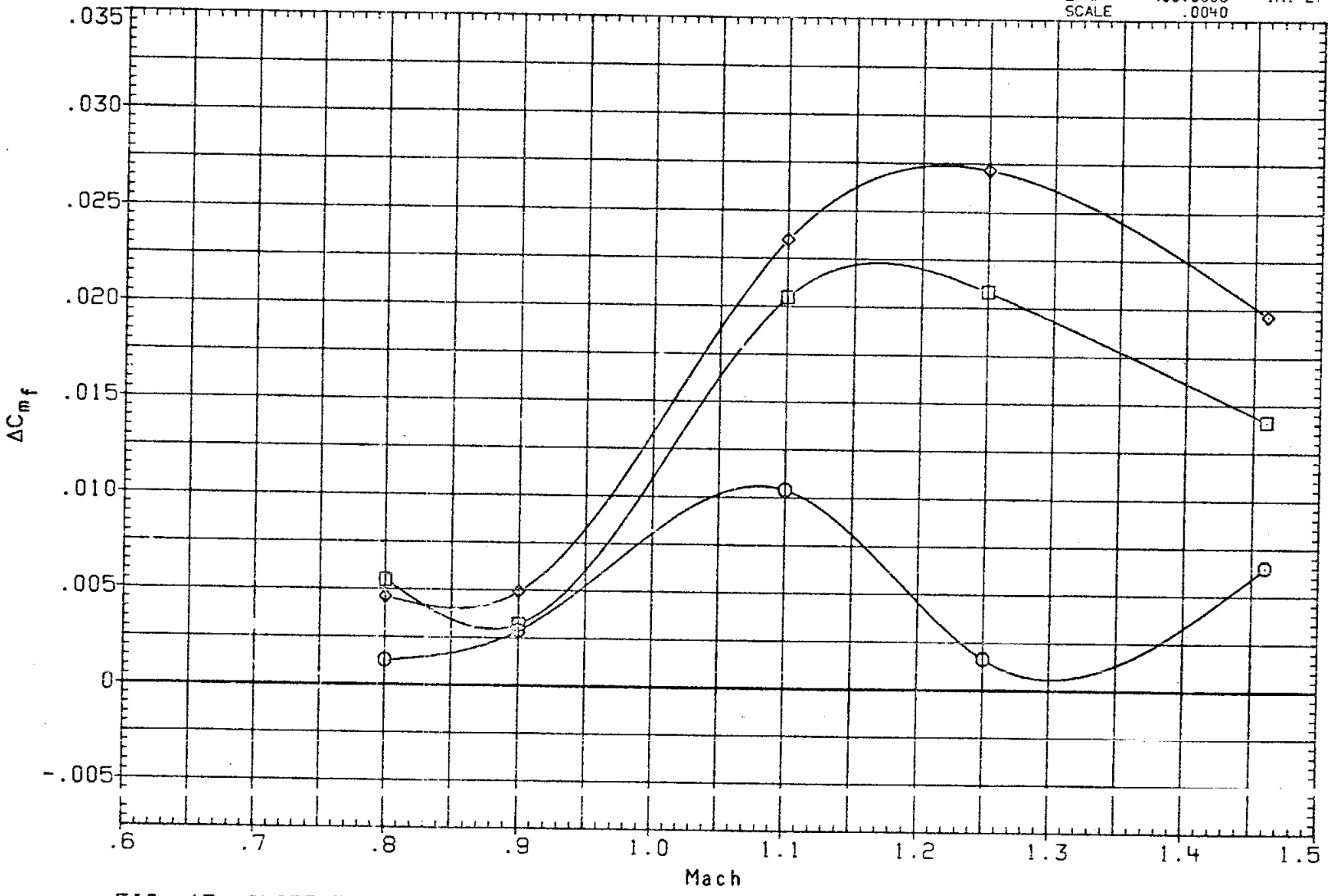

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A) ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6011	○	MSFC TWT 692. O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
AA6013	□	MSFC TWT 692.OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
AA6016	◇	MSFC TWT 692.OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
AA6018	△	MSFC TWT 692.OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

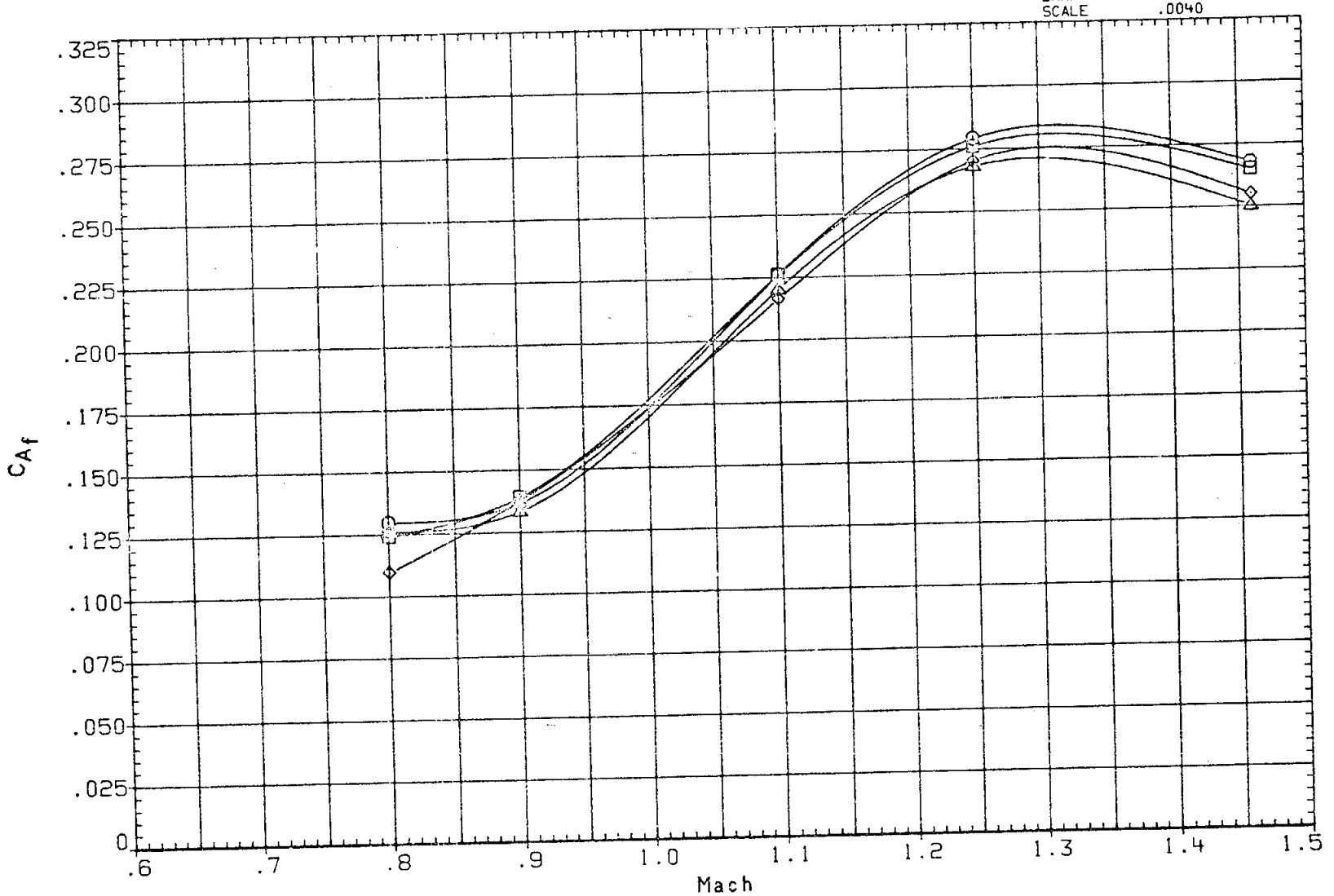

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

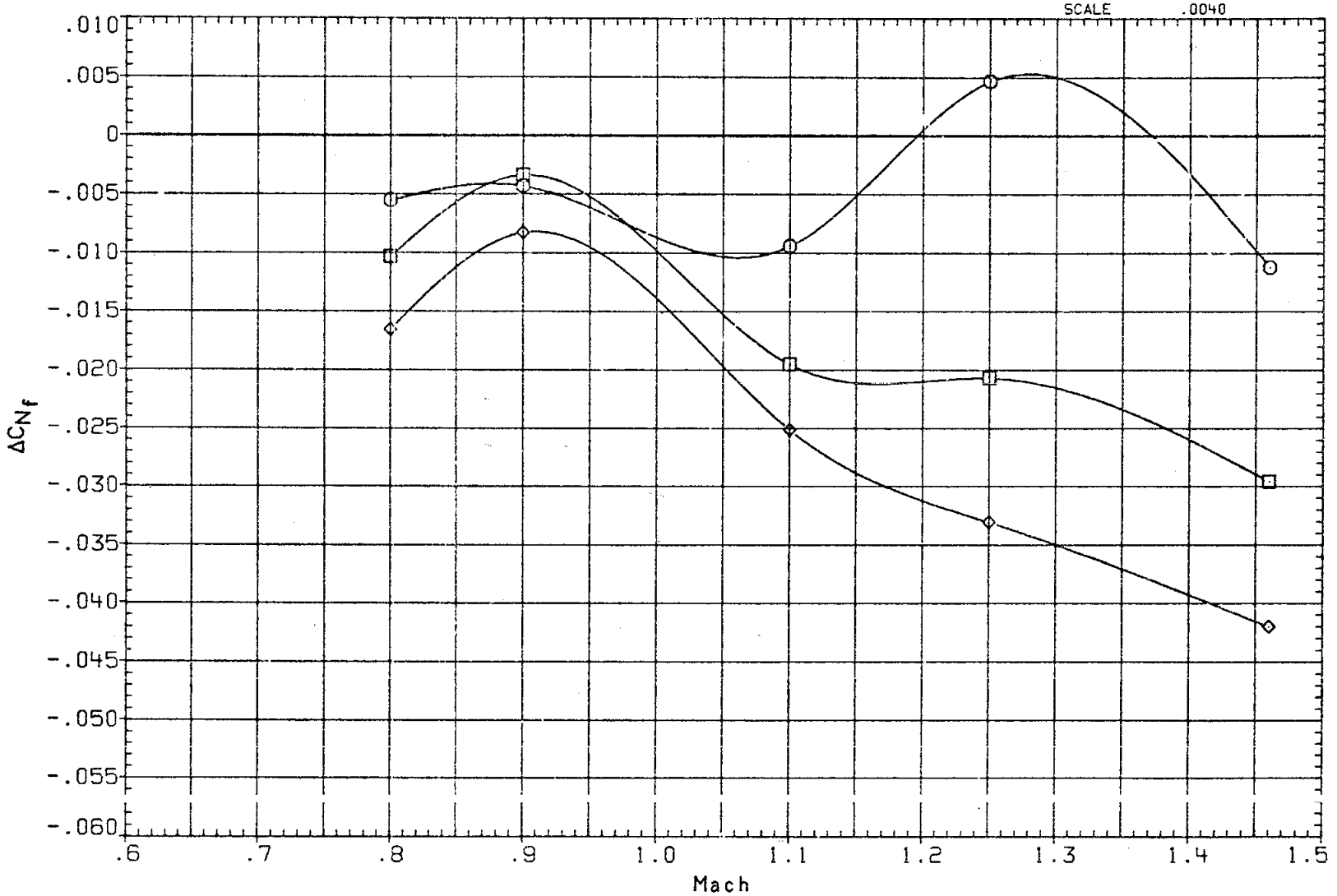

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

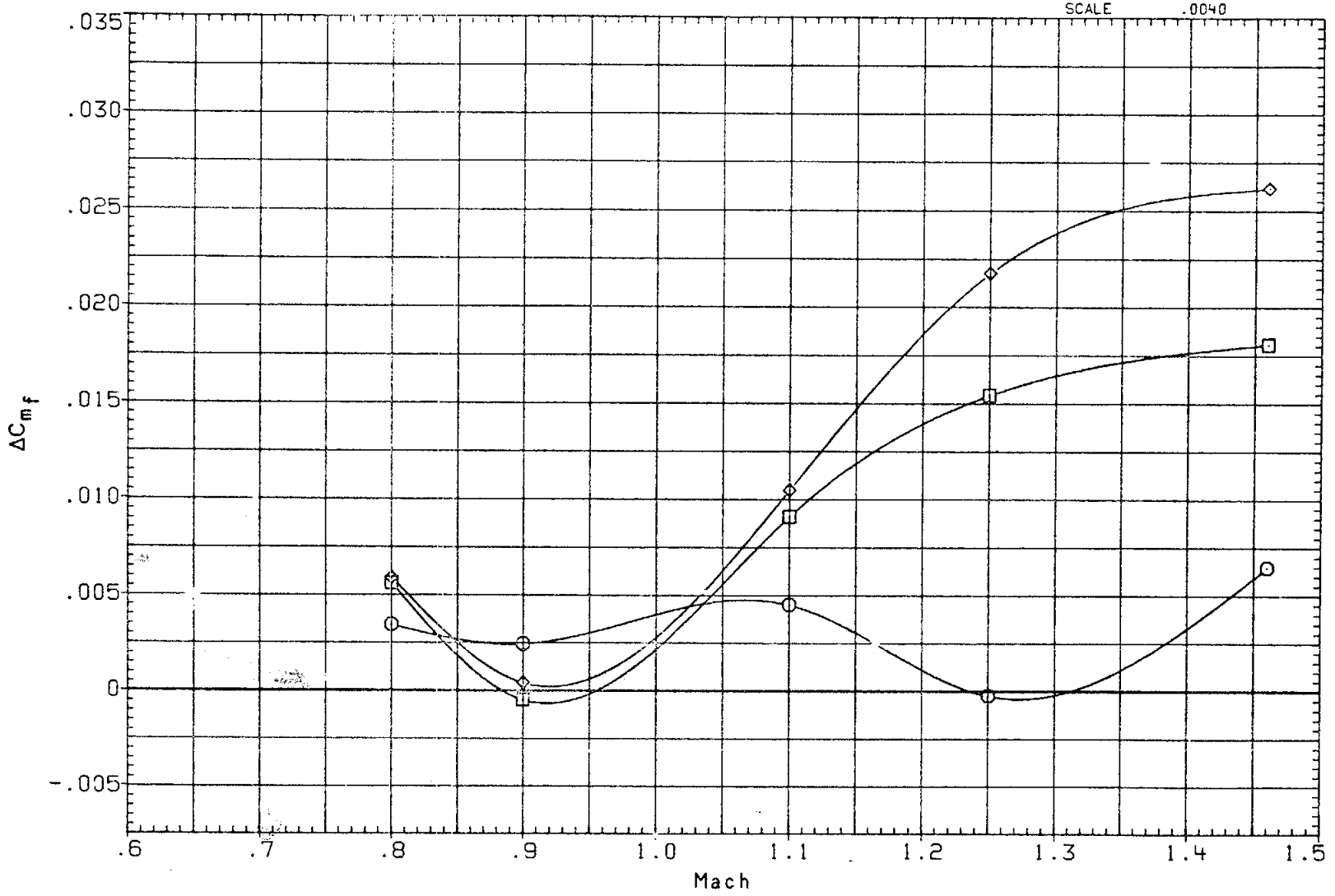

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

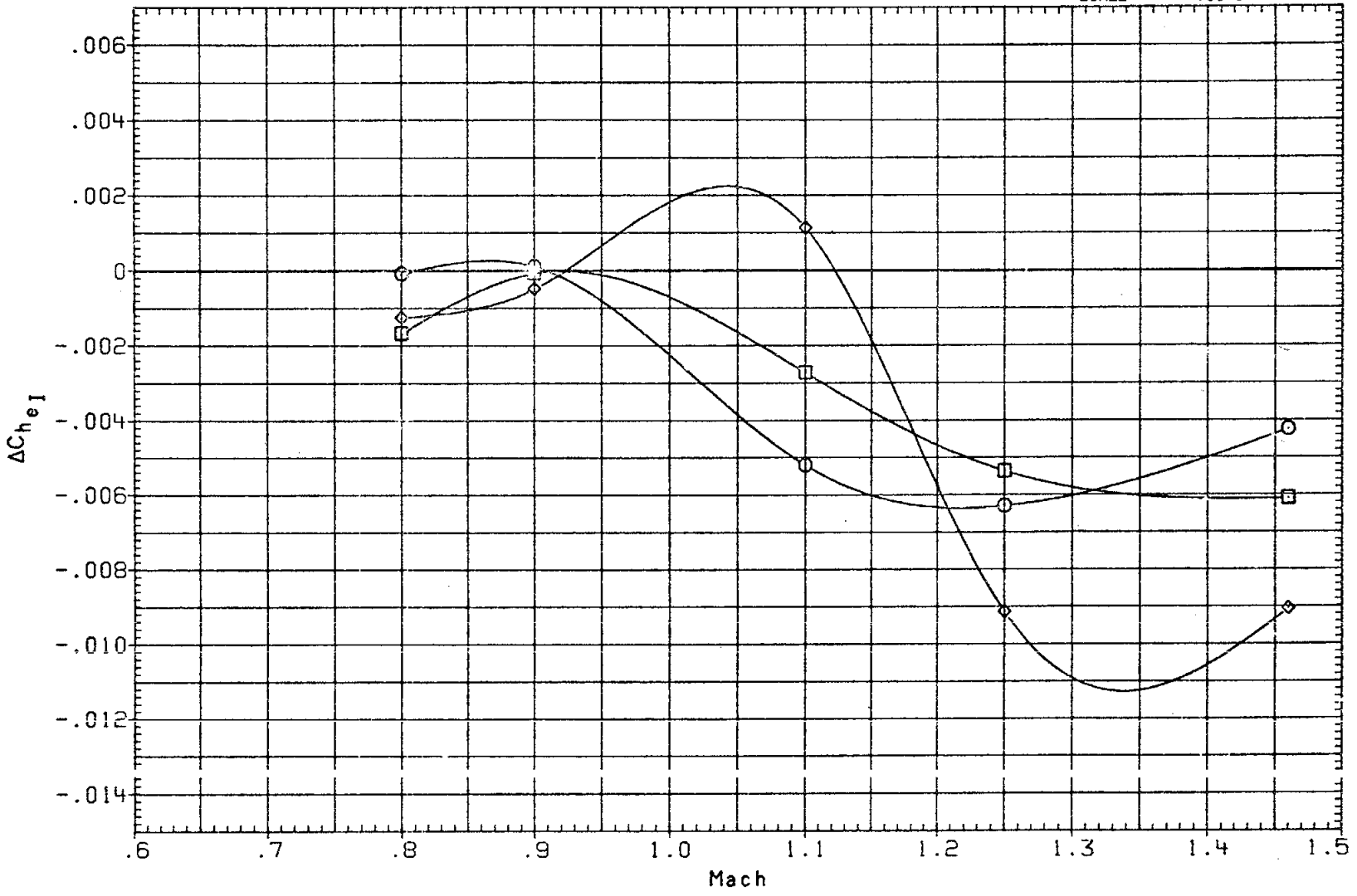

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A) ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

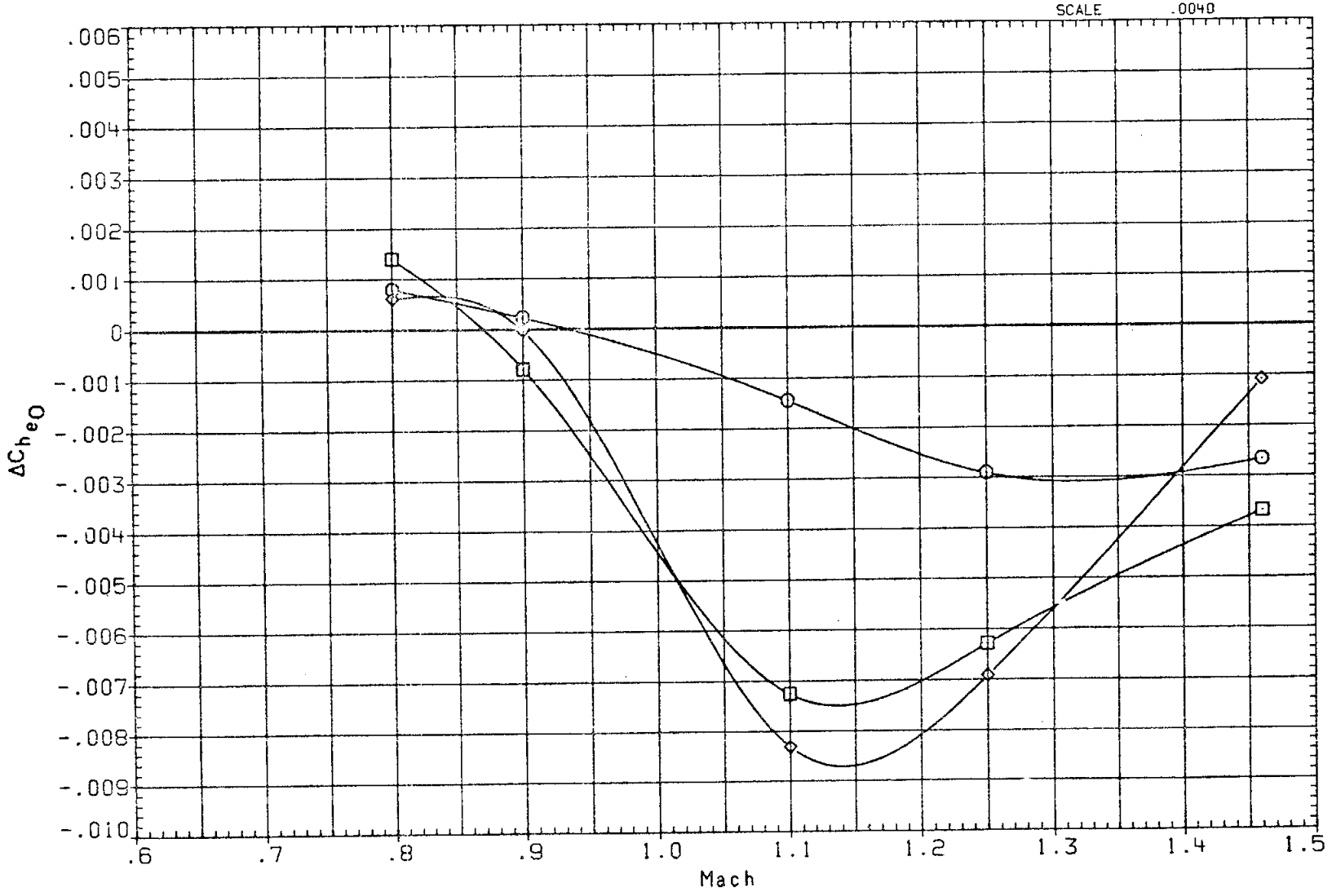

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

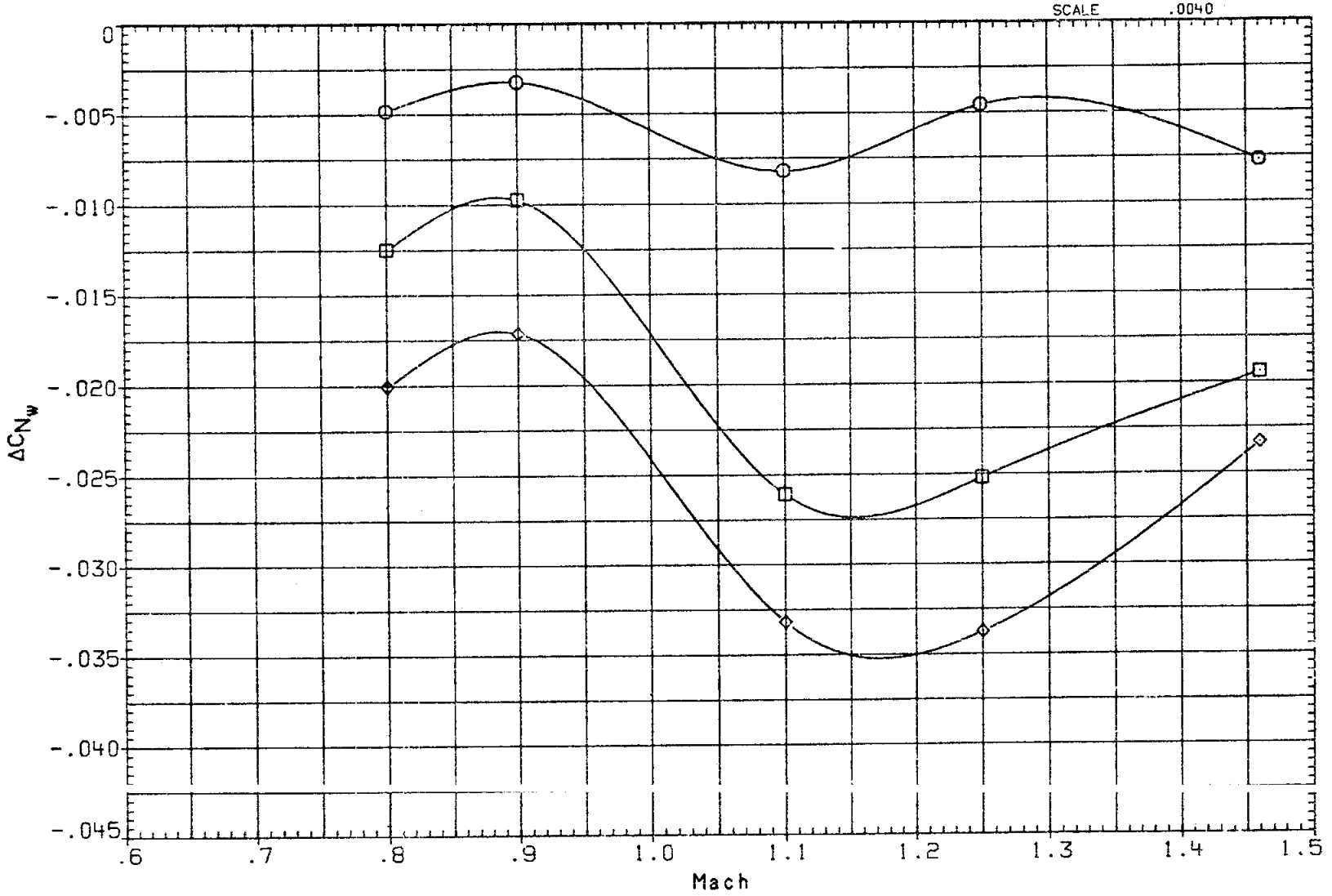

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

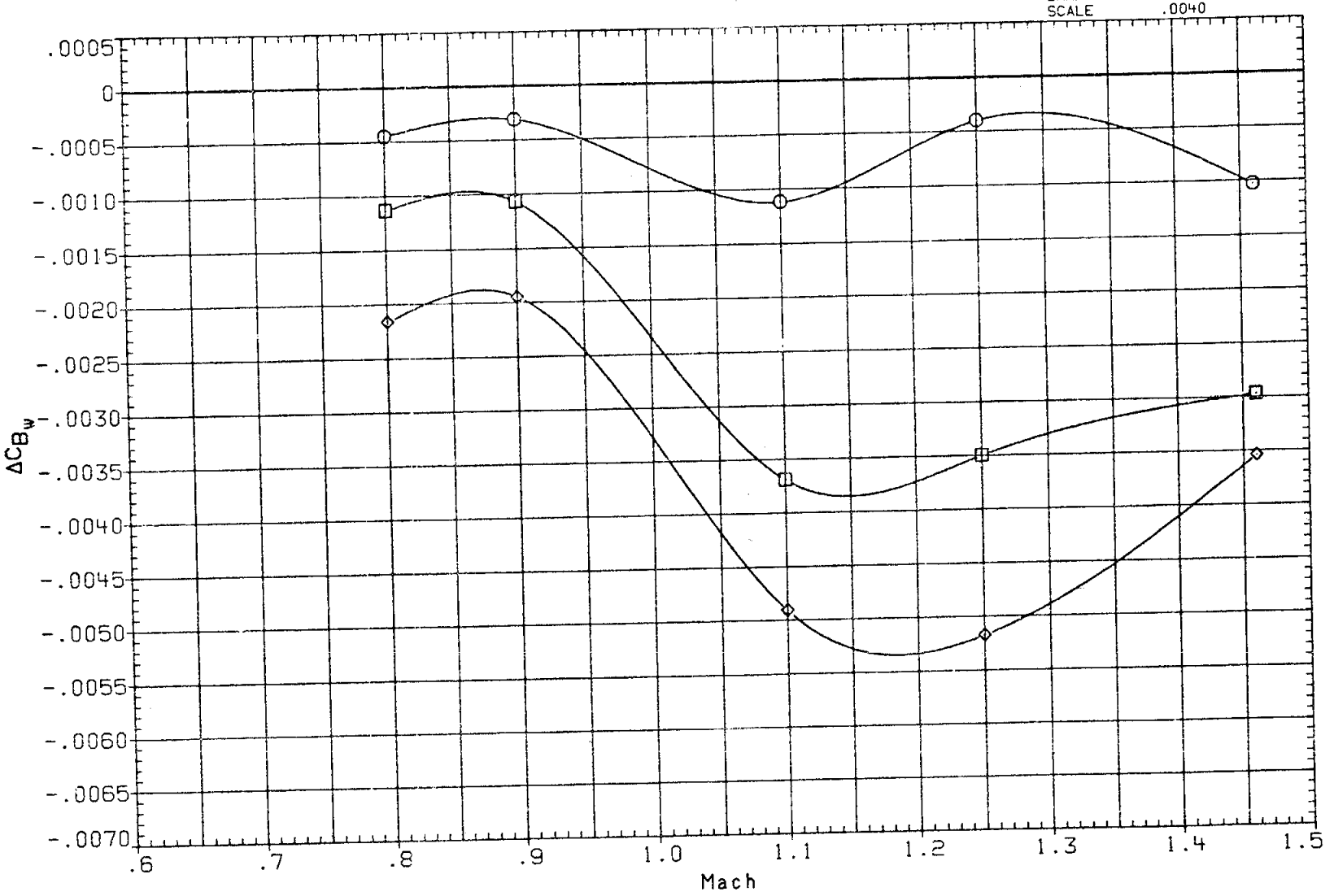

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

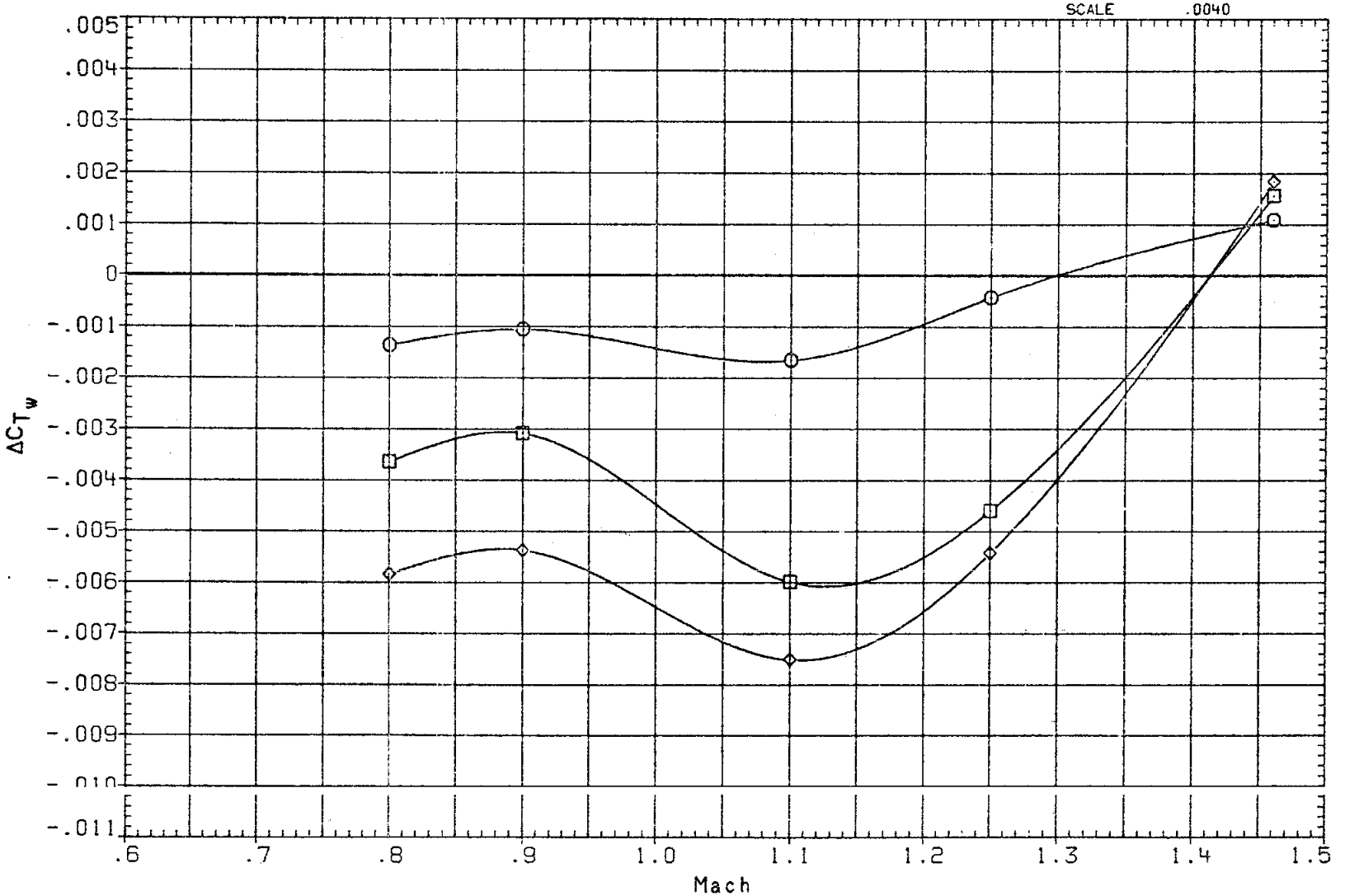

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6019	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

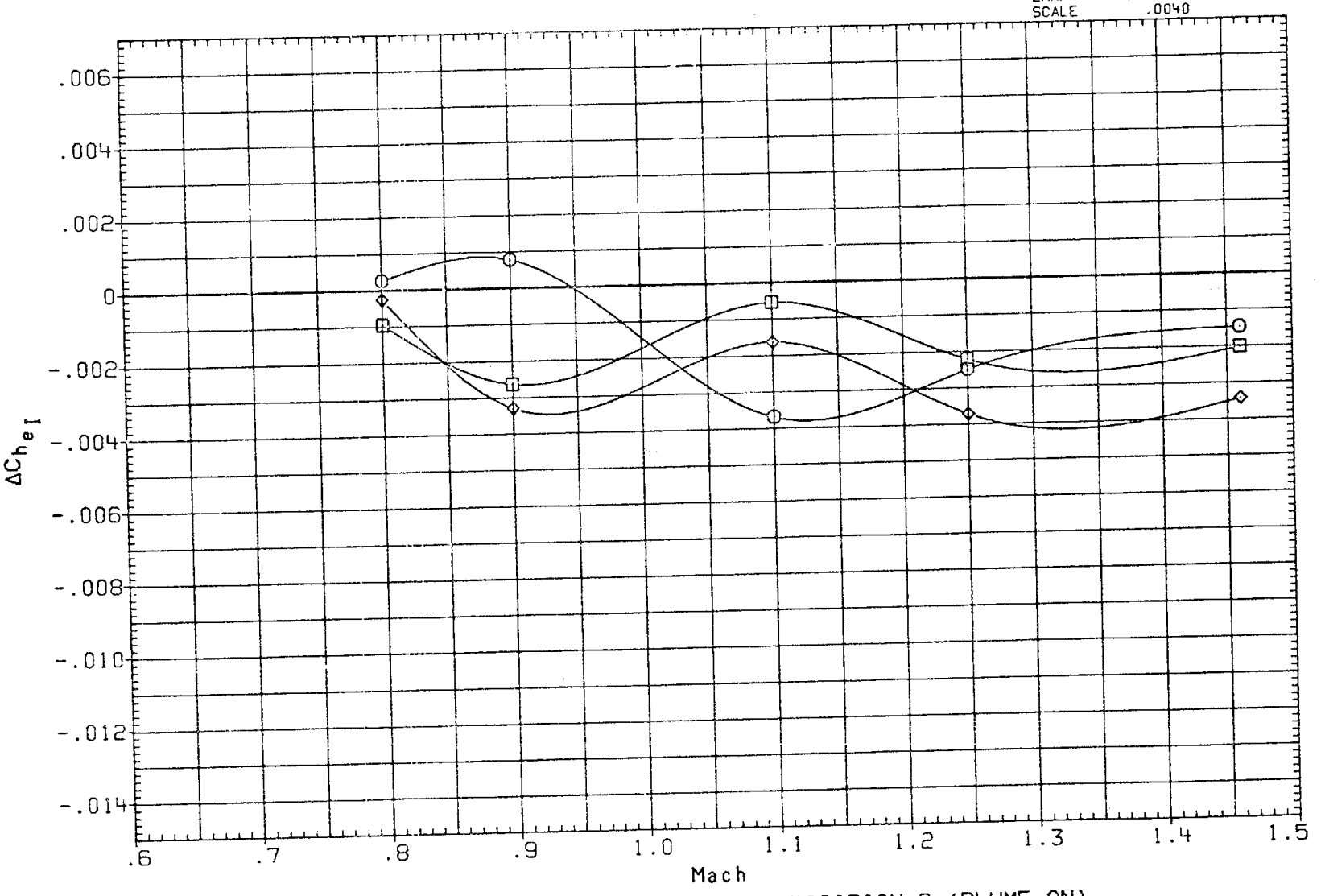

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

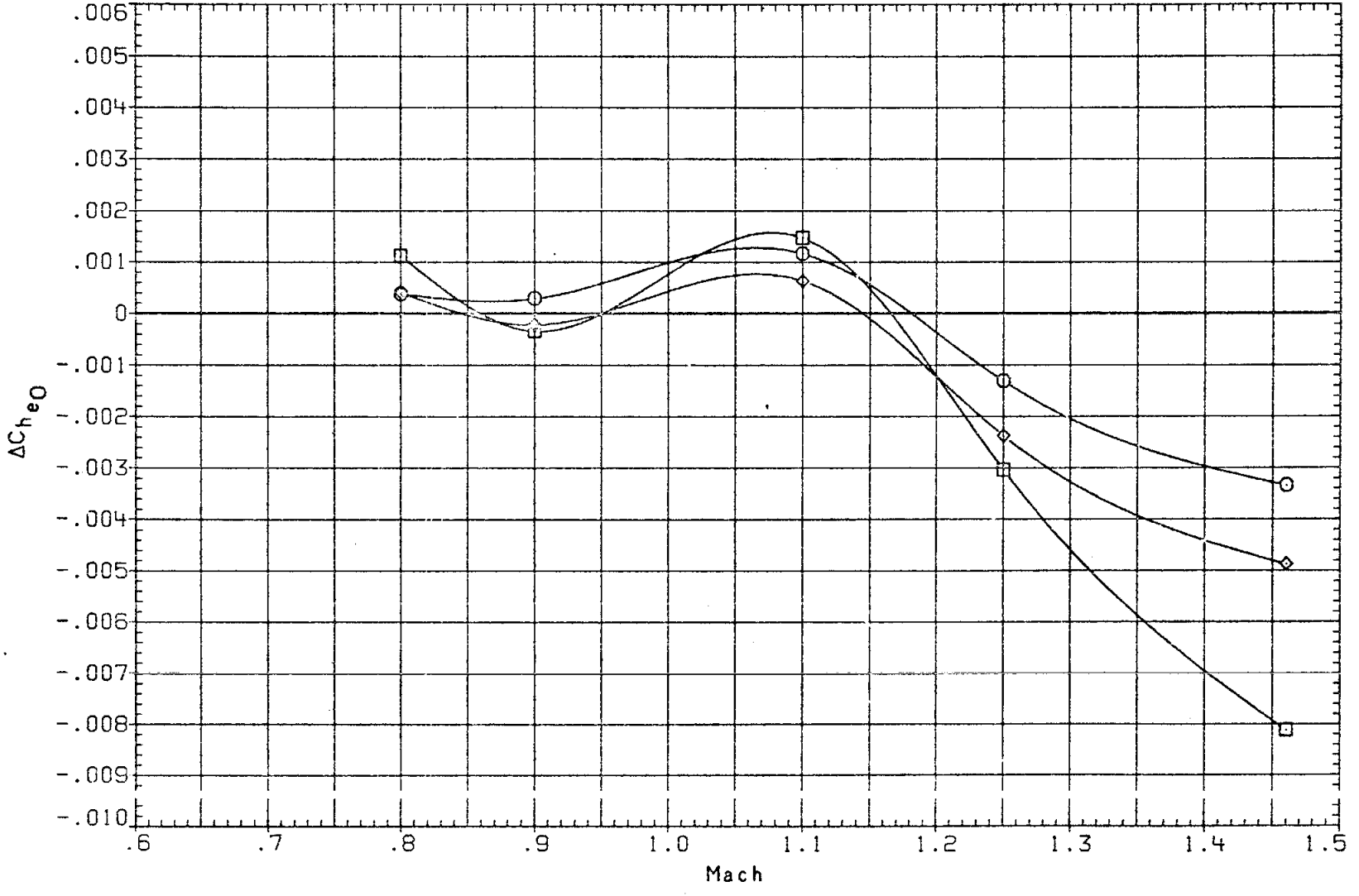

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

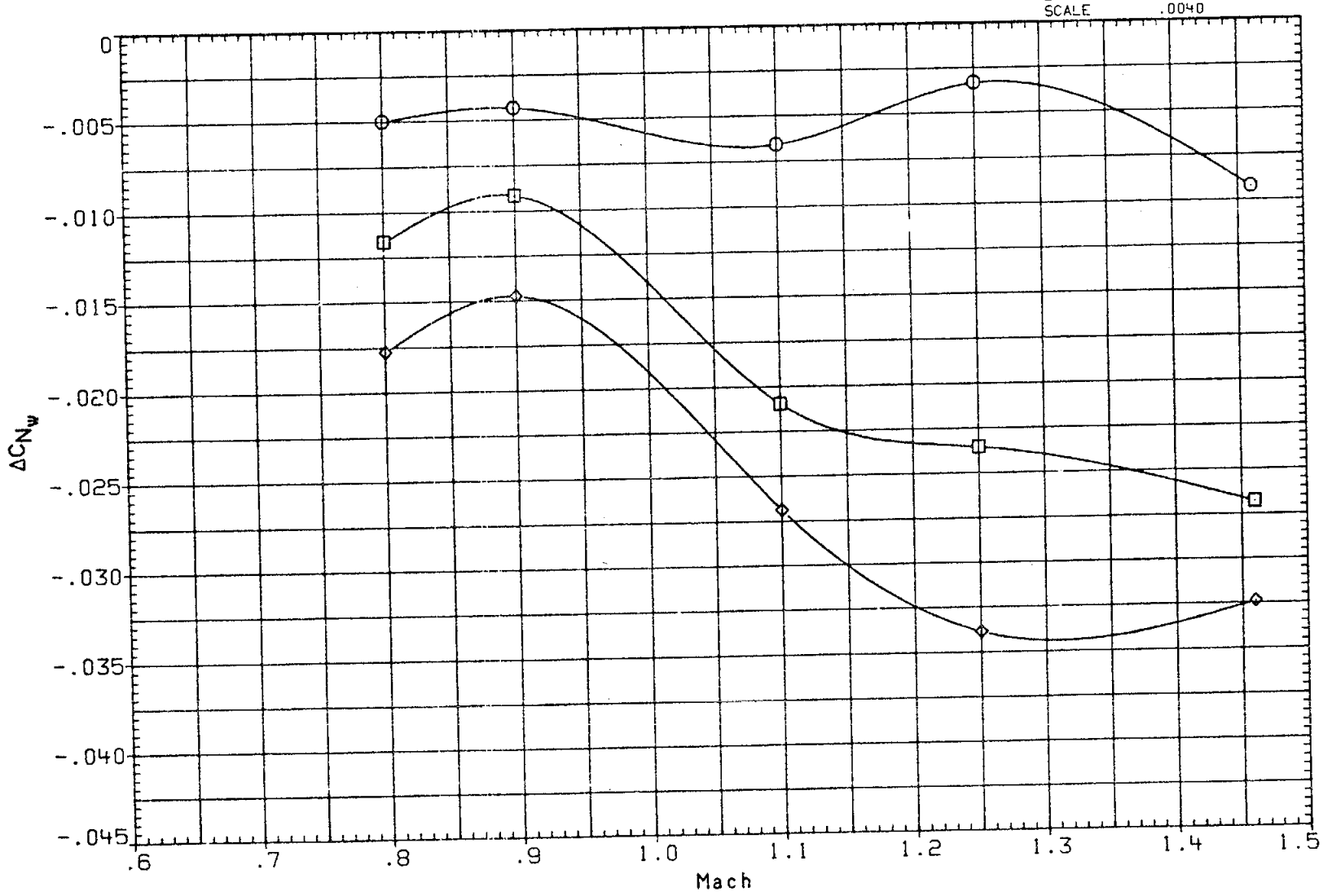

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

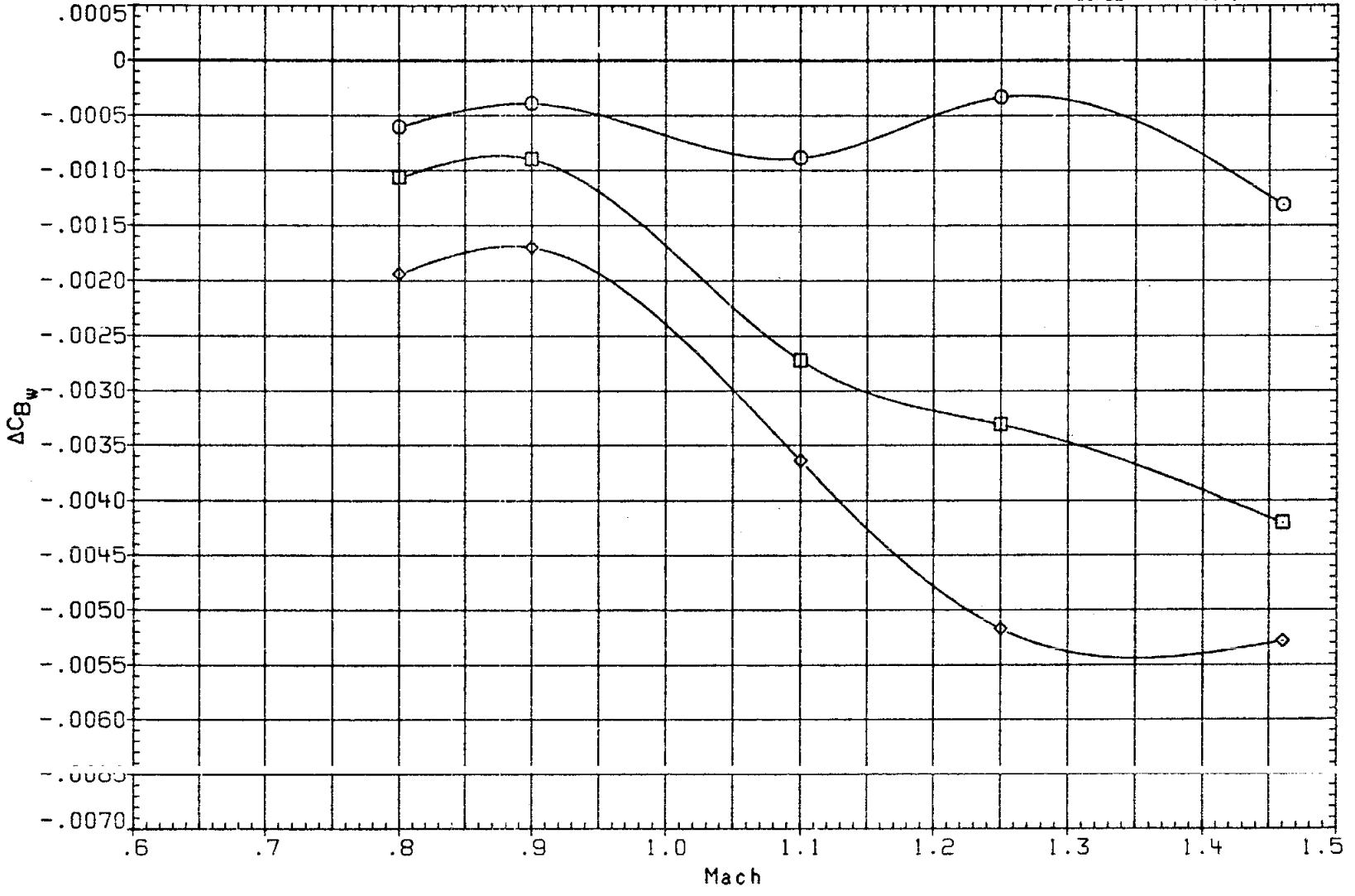

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6013	○	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

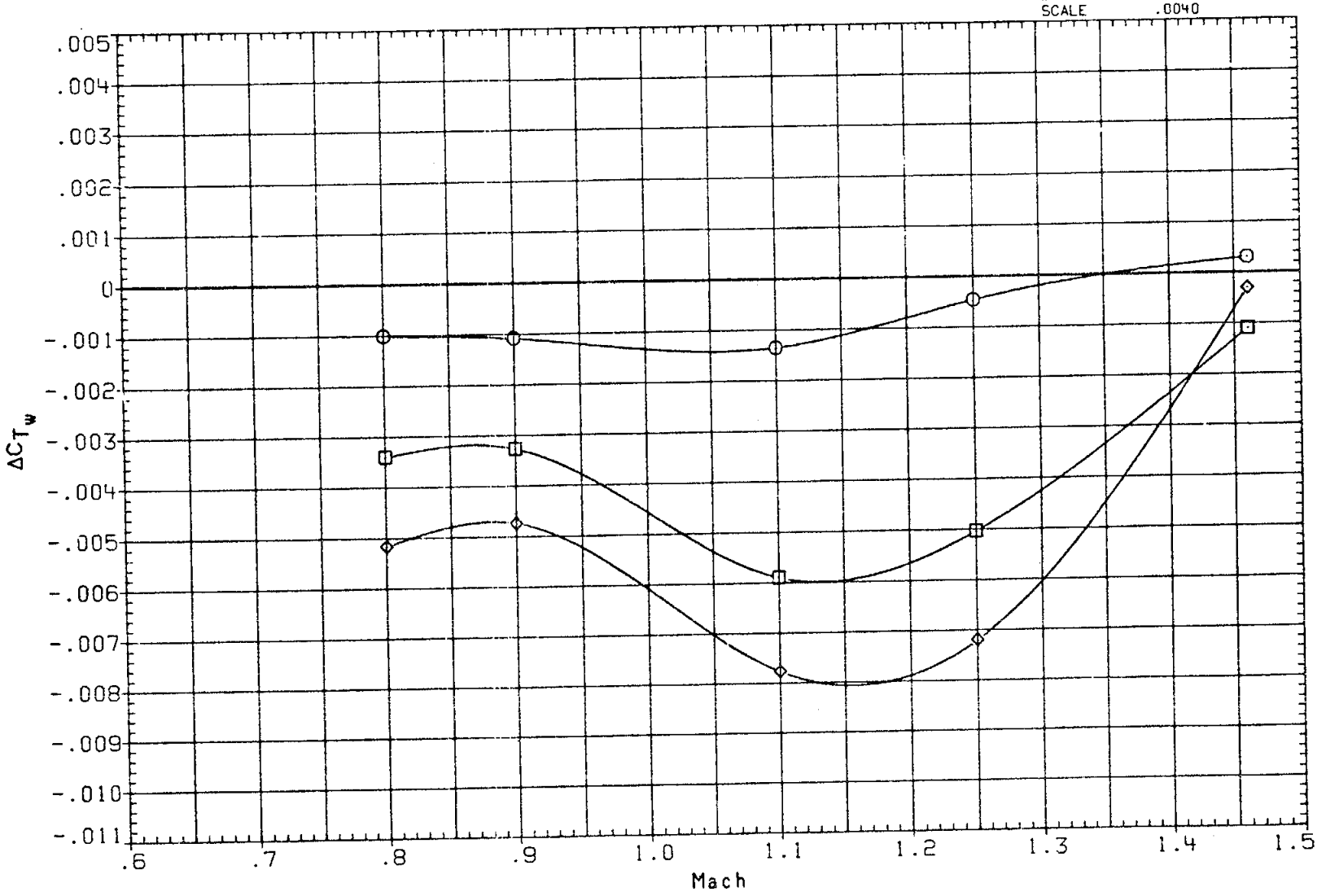

FIG. 17 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 2 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
AA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
AA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
AA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

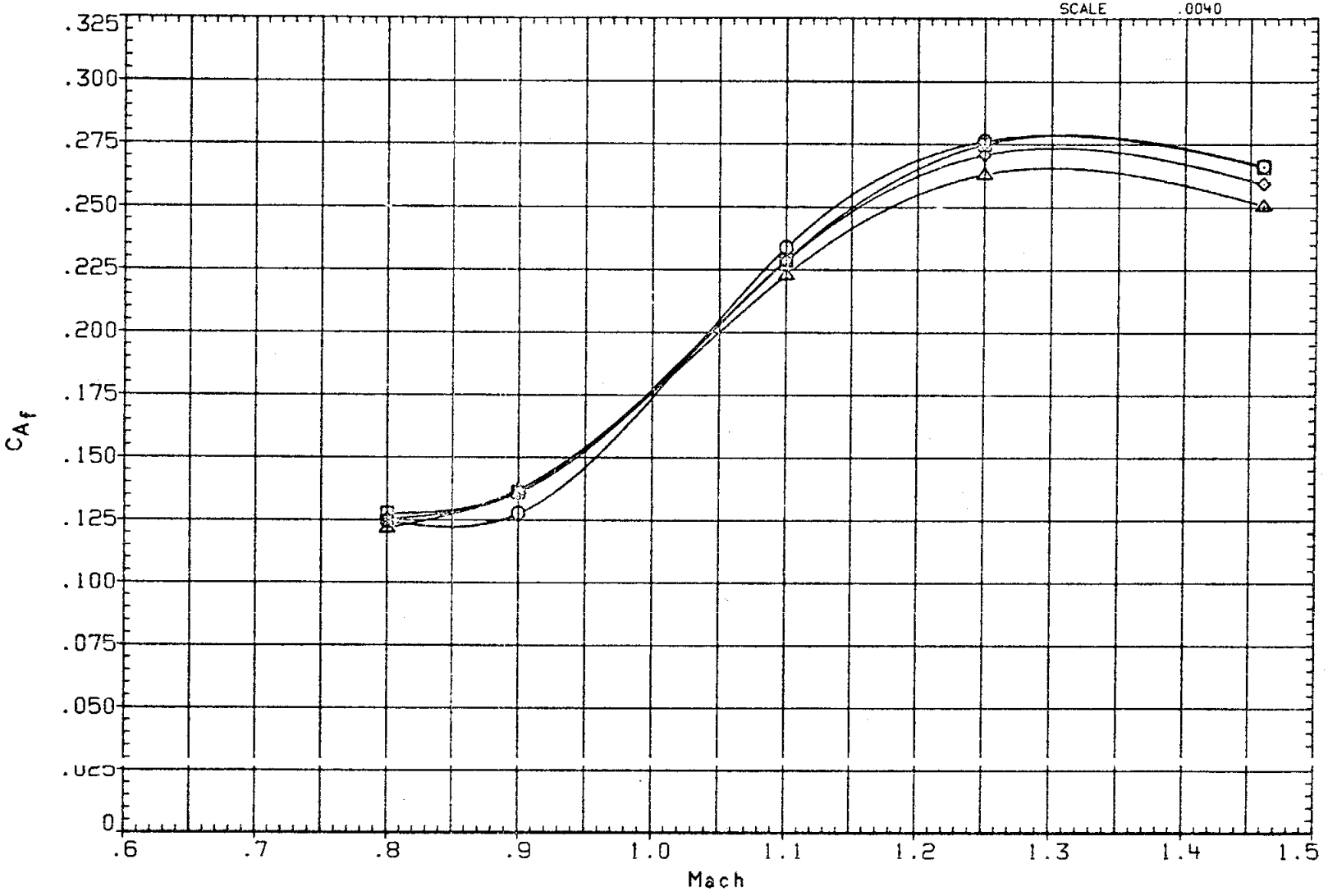

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

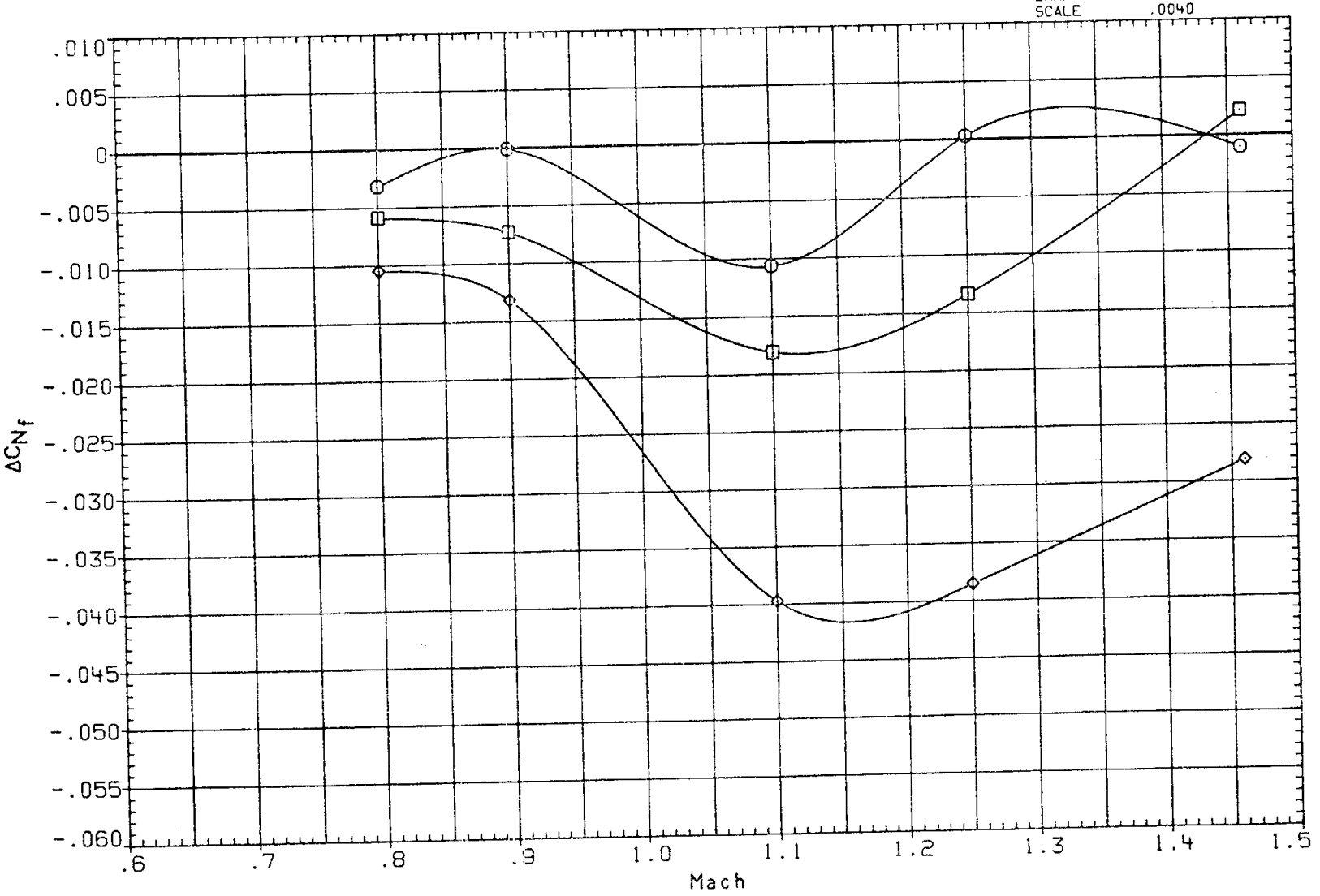

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

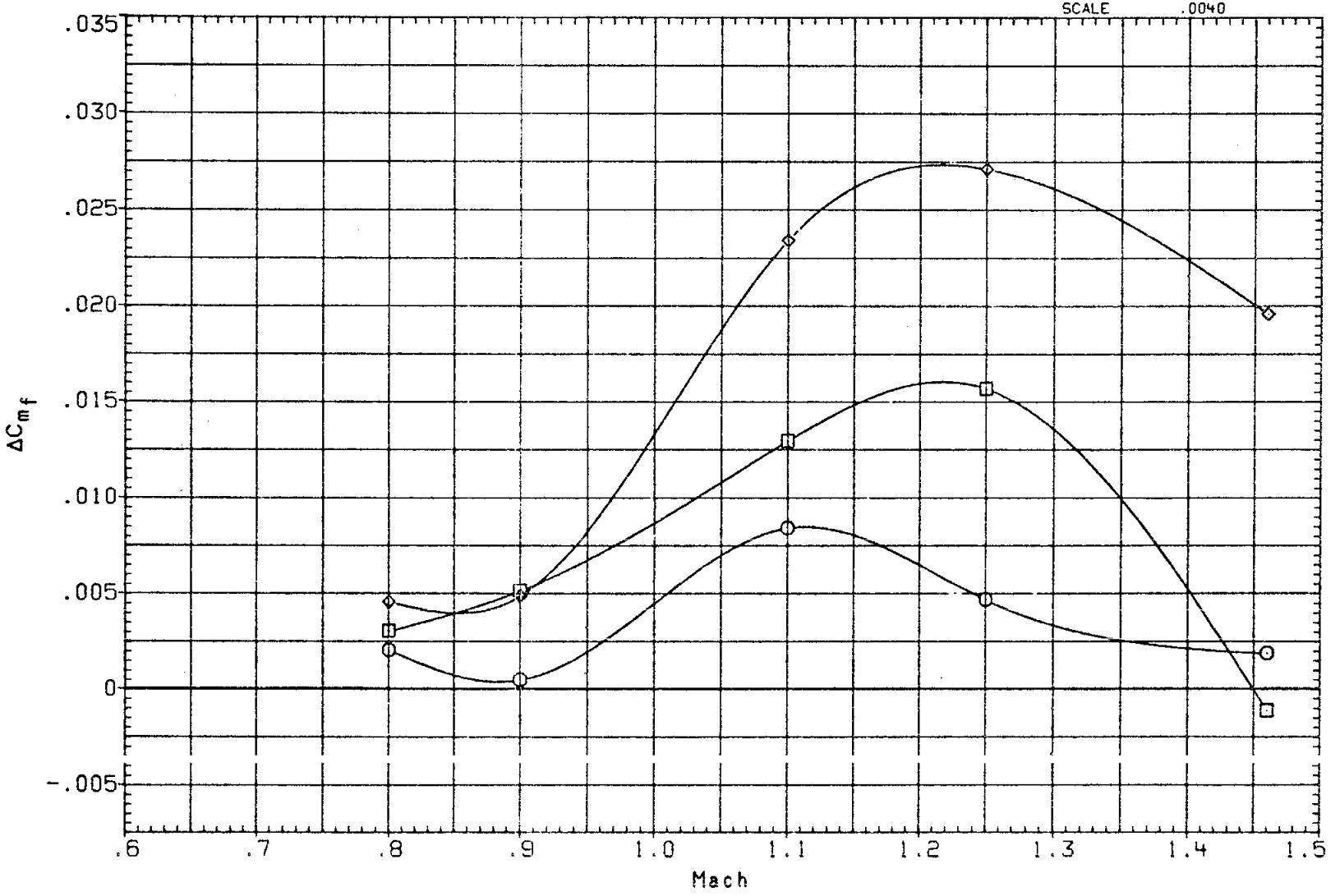

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
AA6014	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON
AA6017	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON
AA6018	△	MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

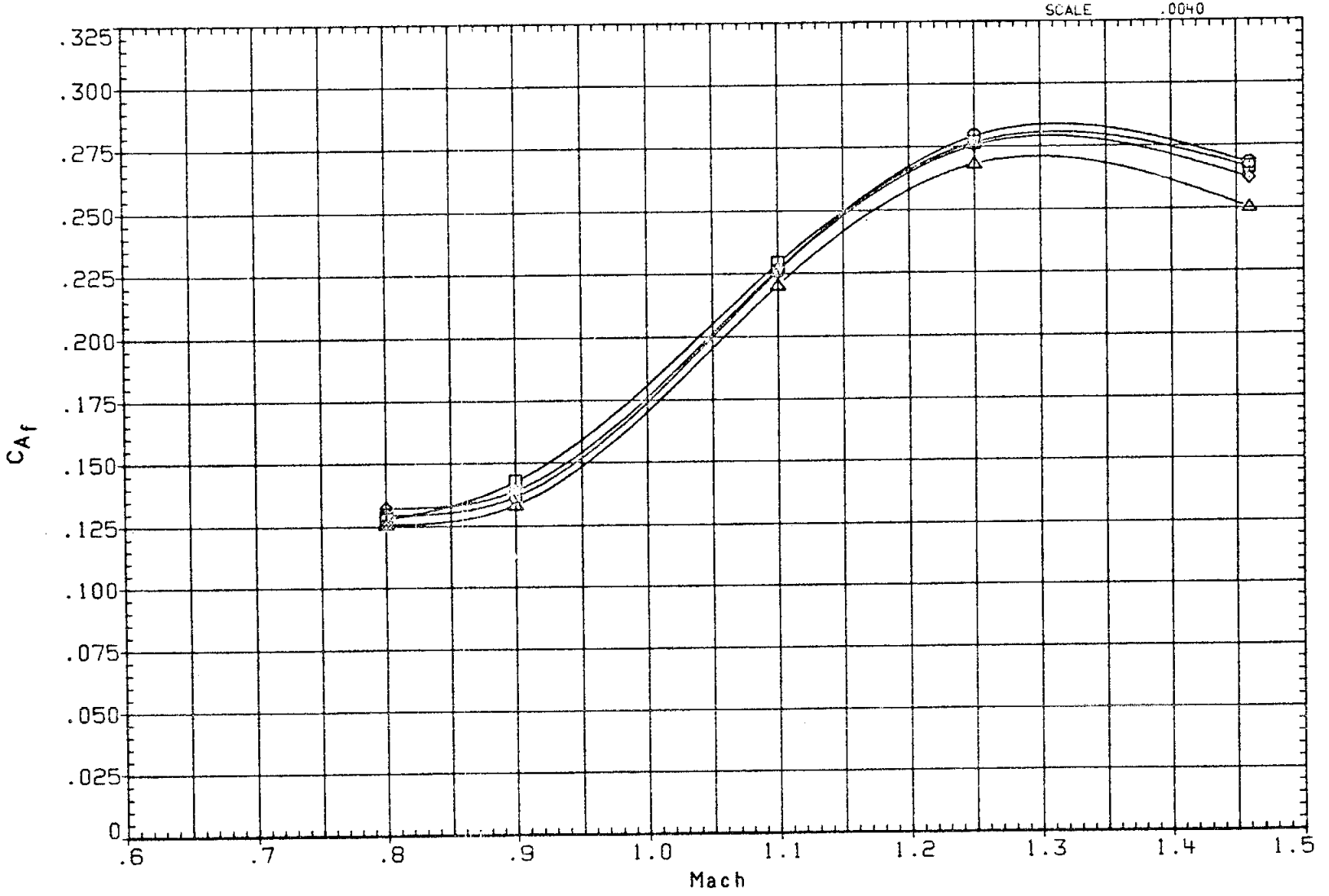

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

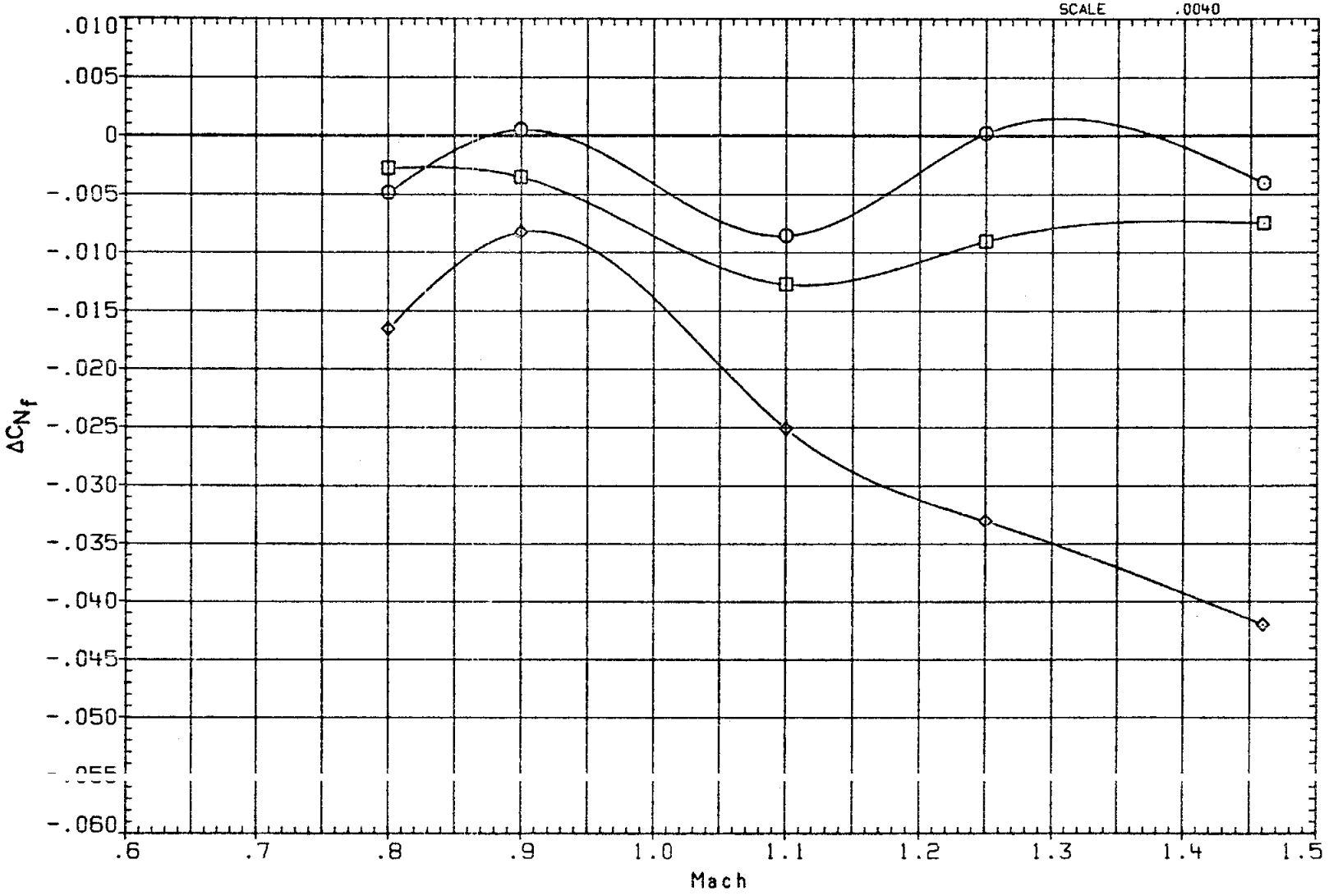

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

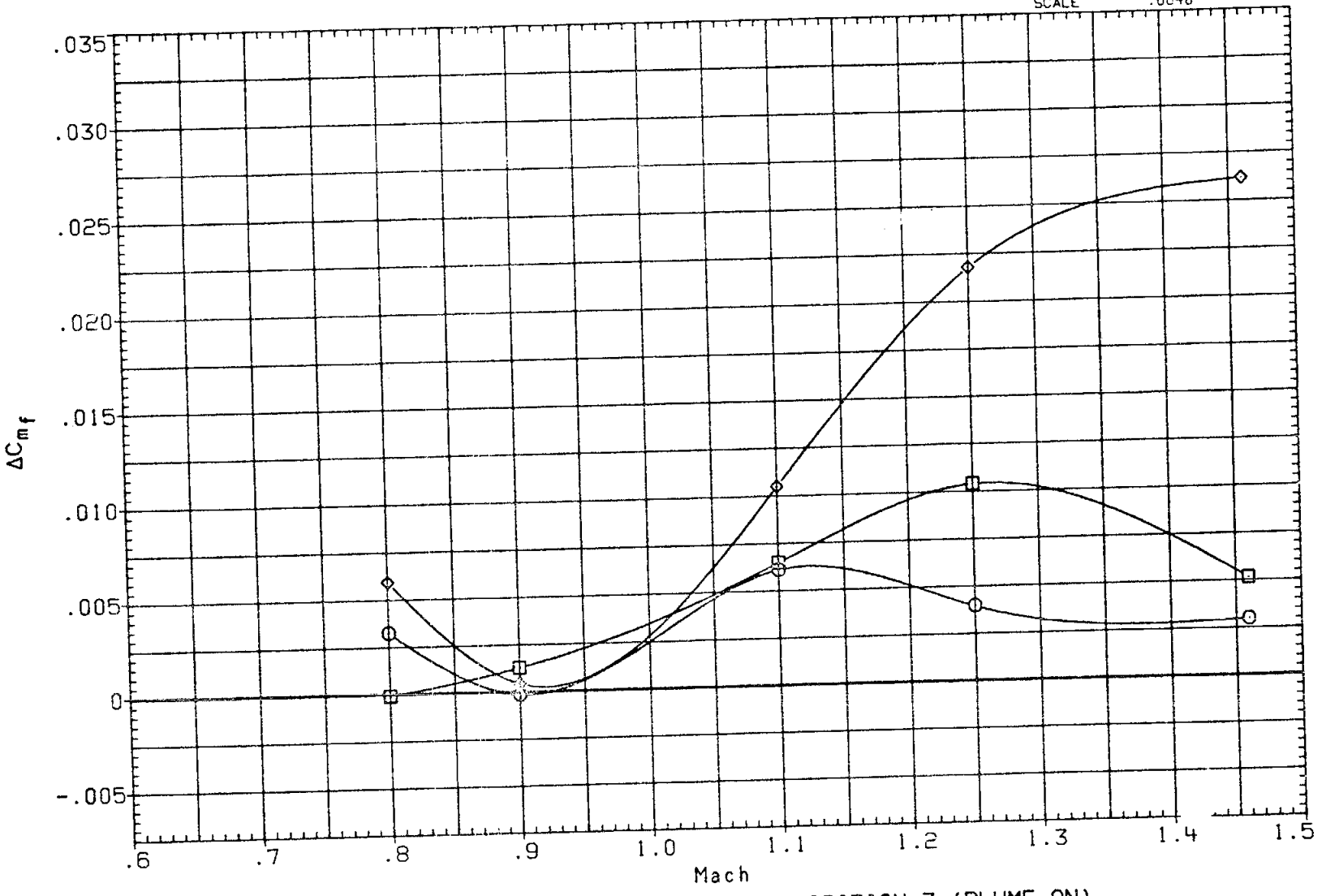

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A) ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

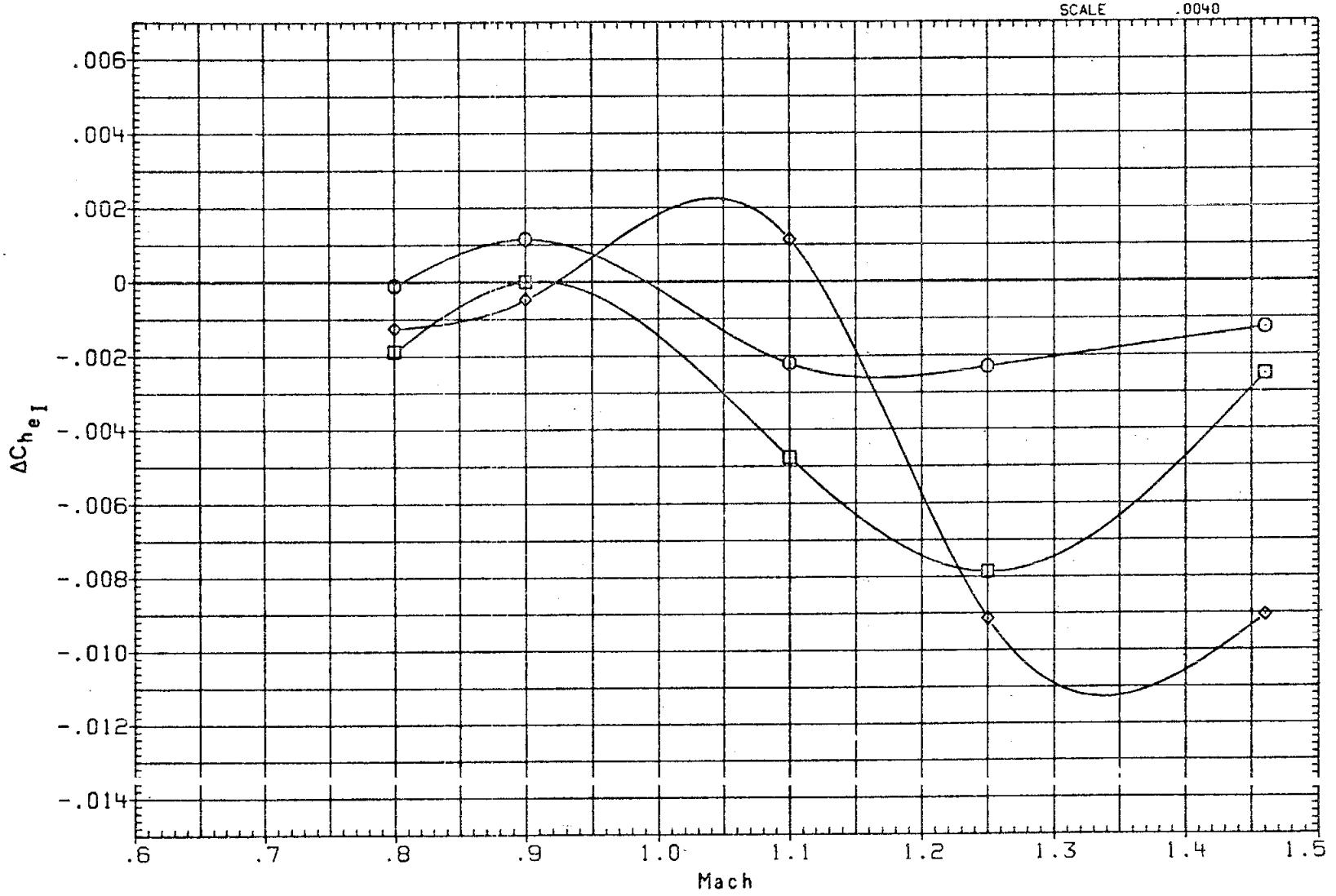

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

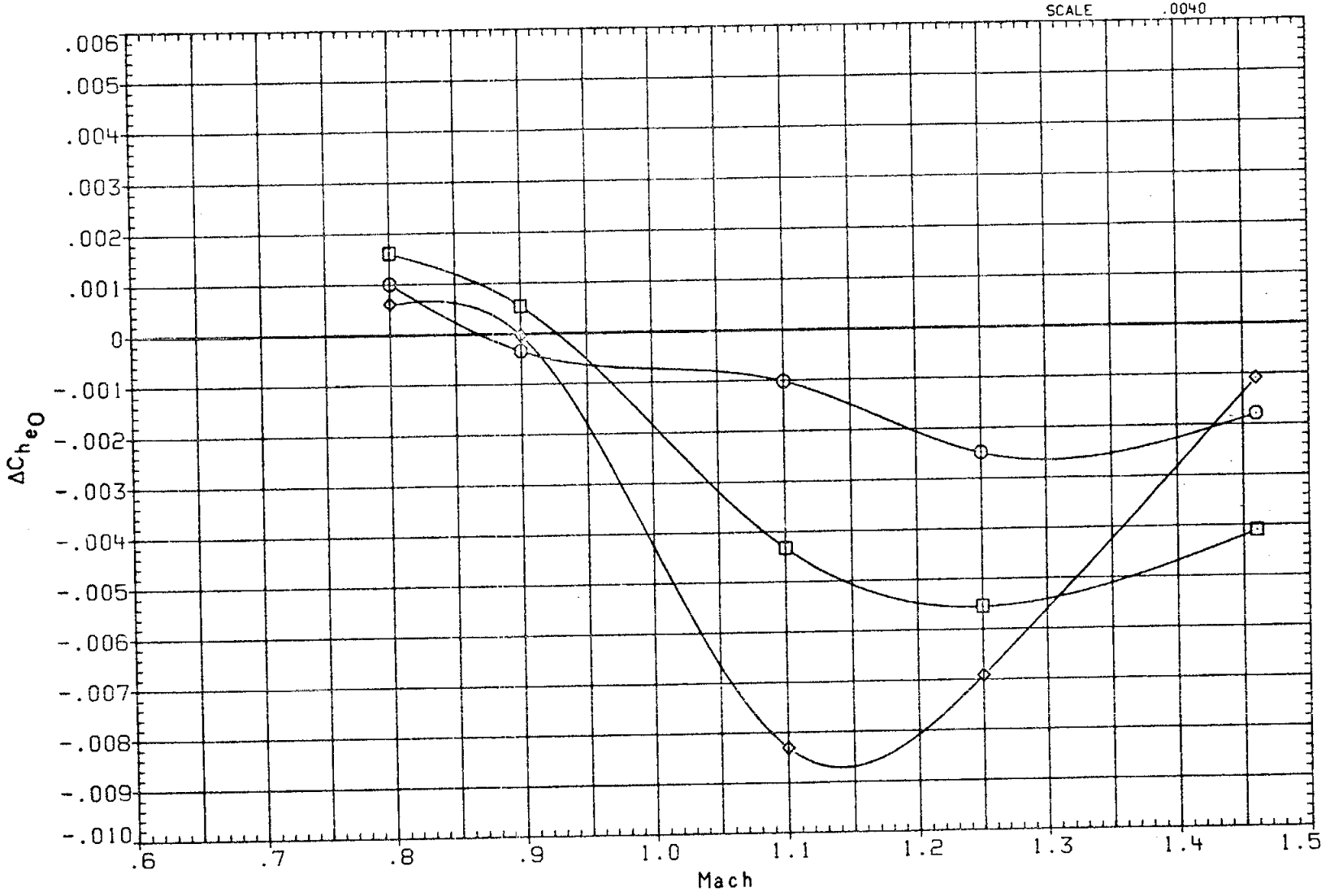

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

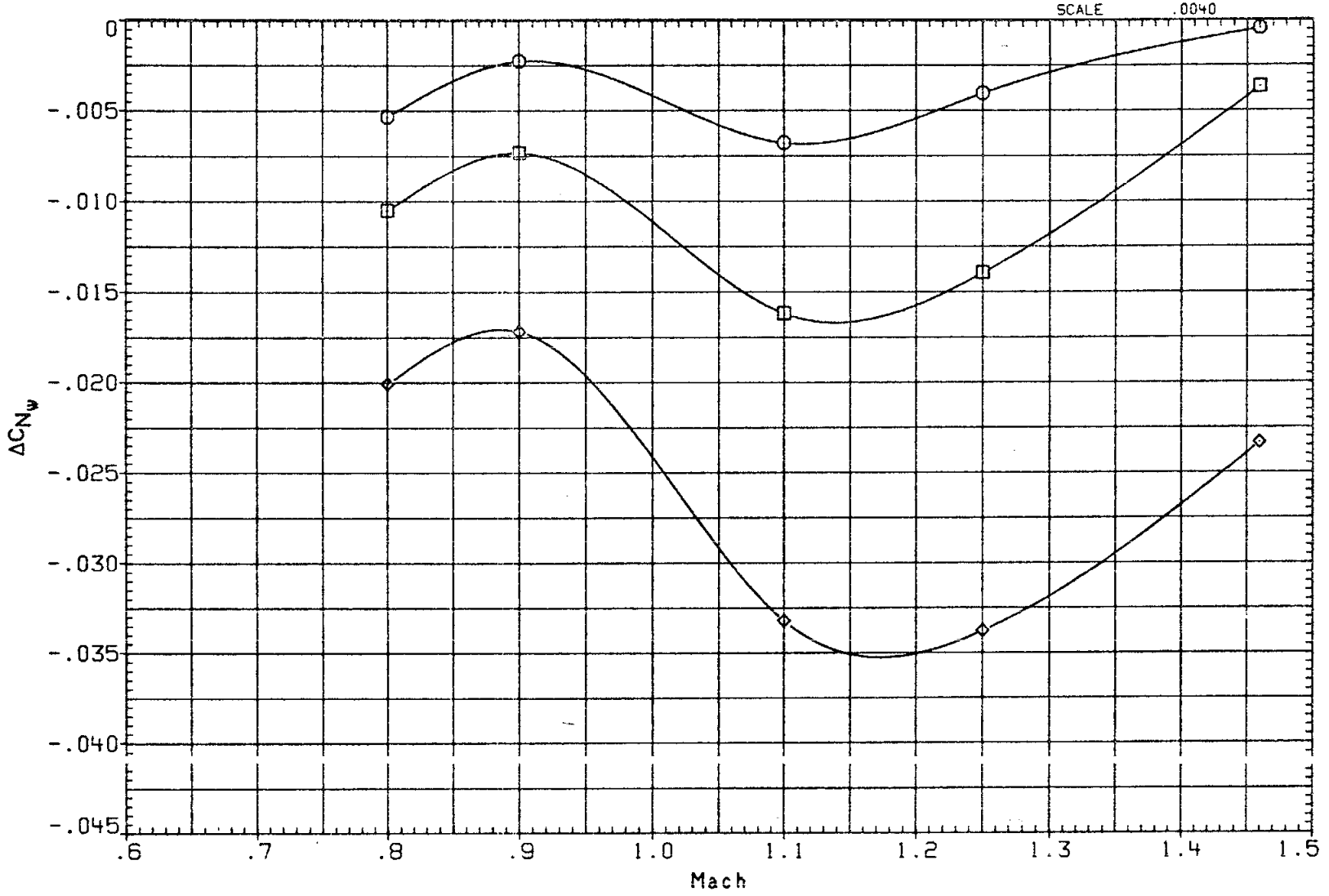

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

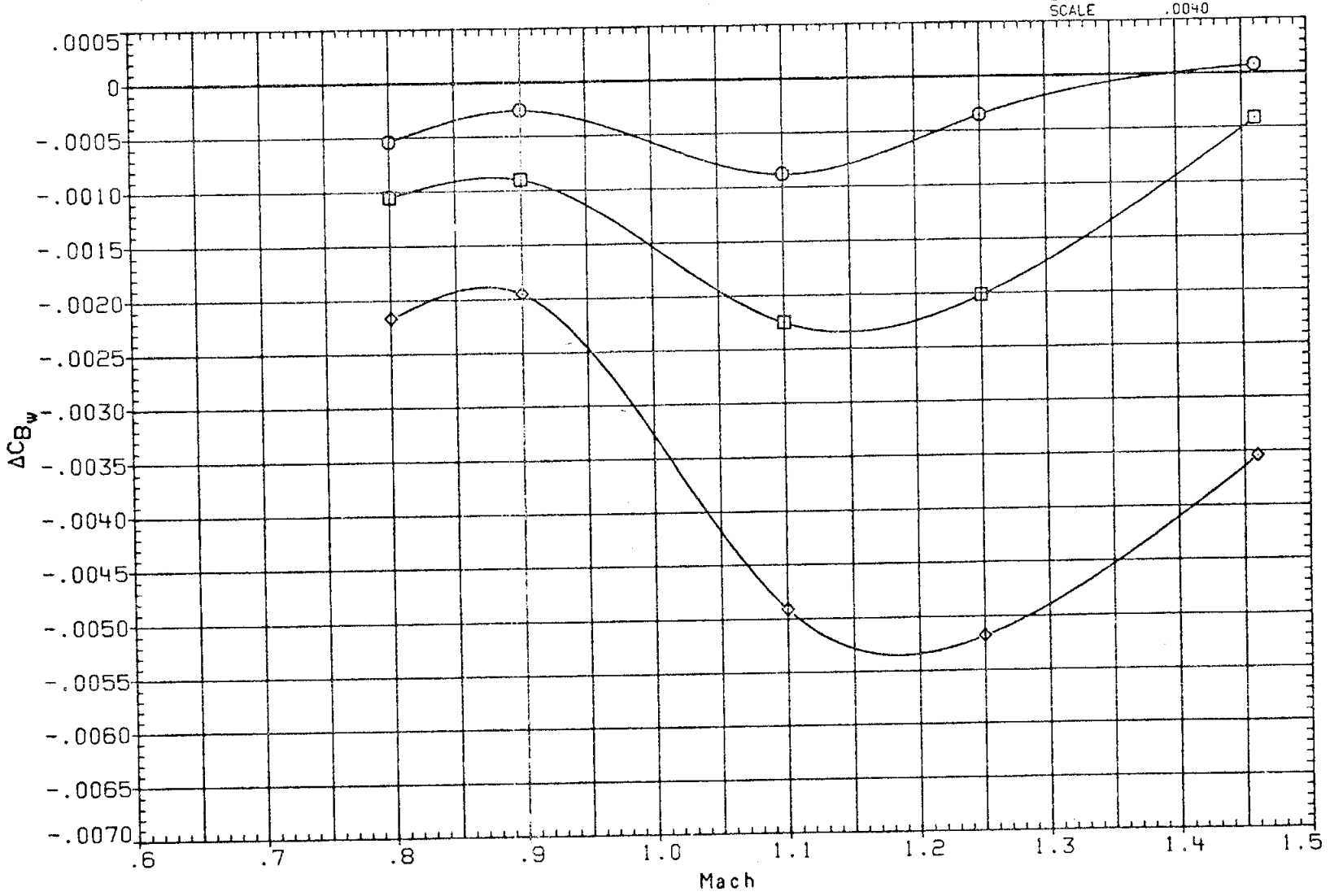

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

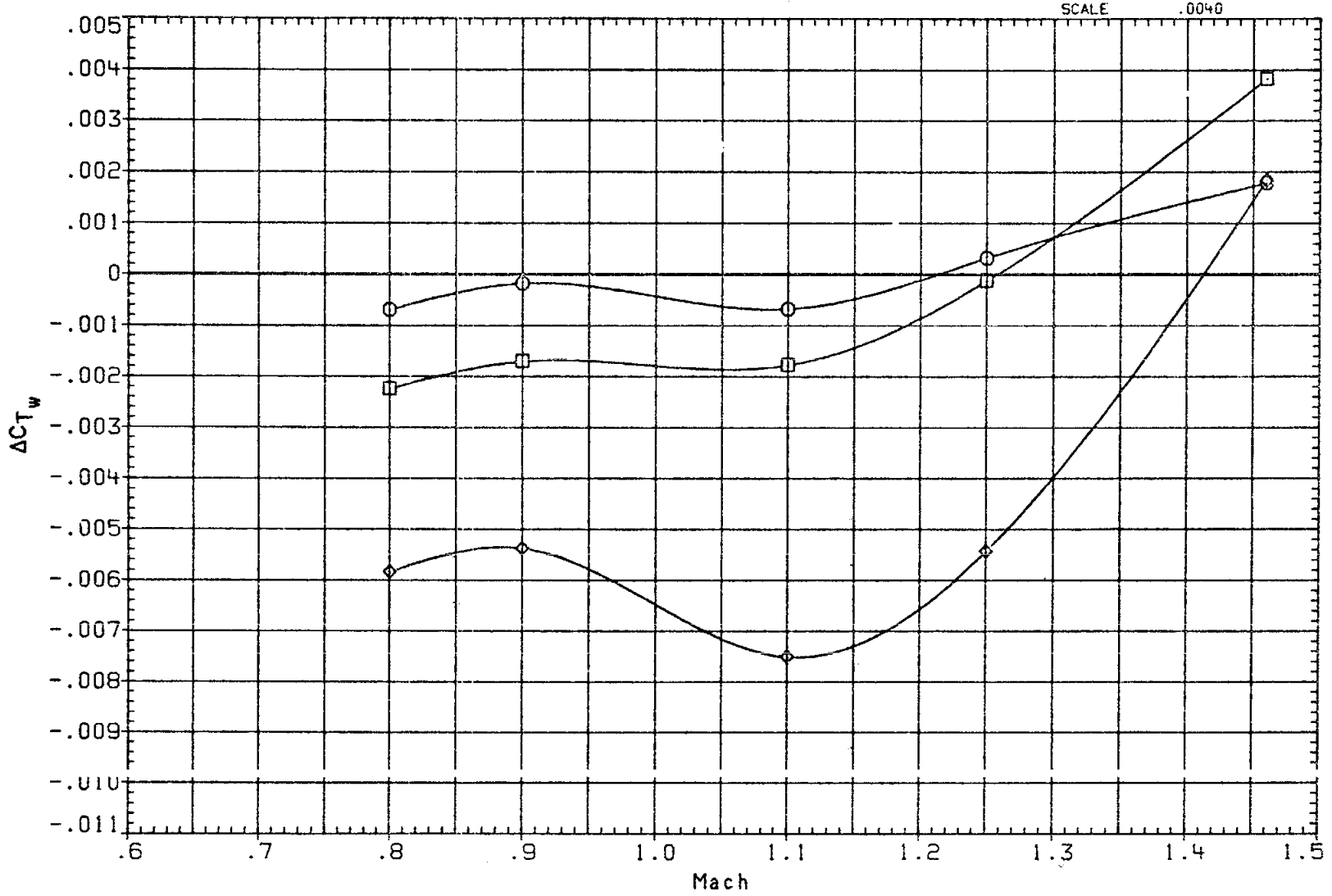

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

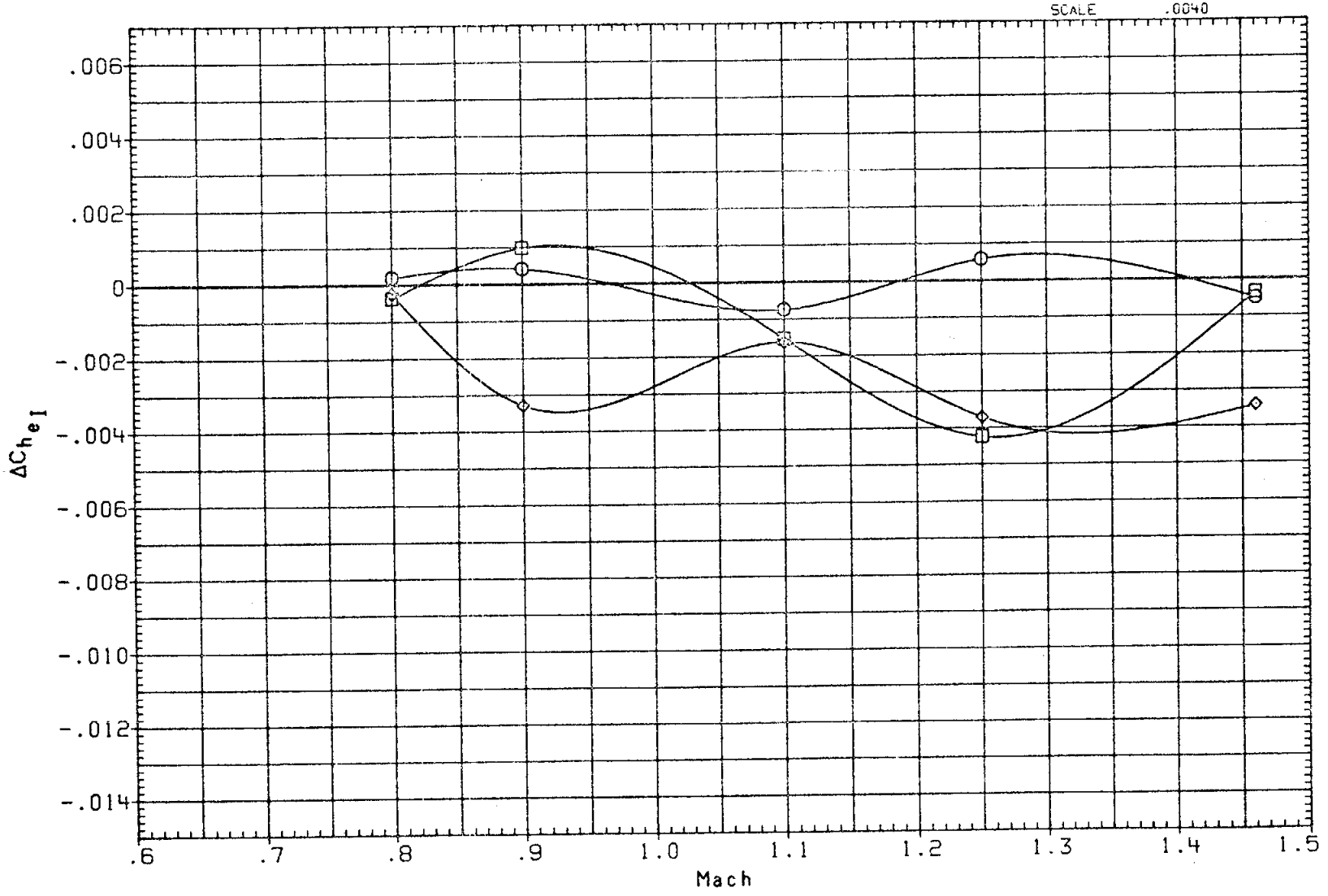

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

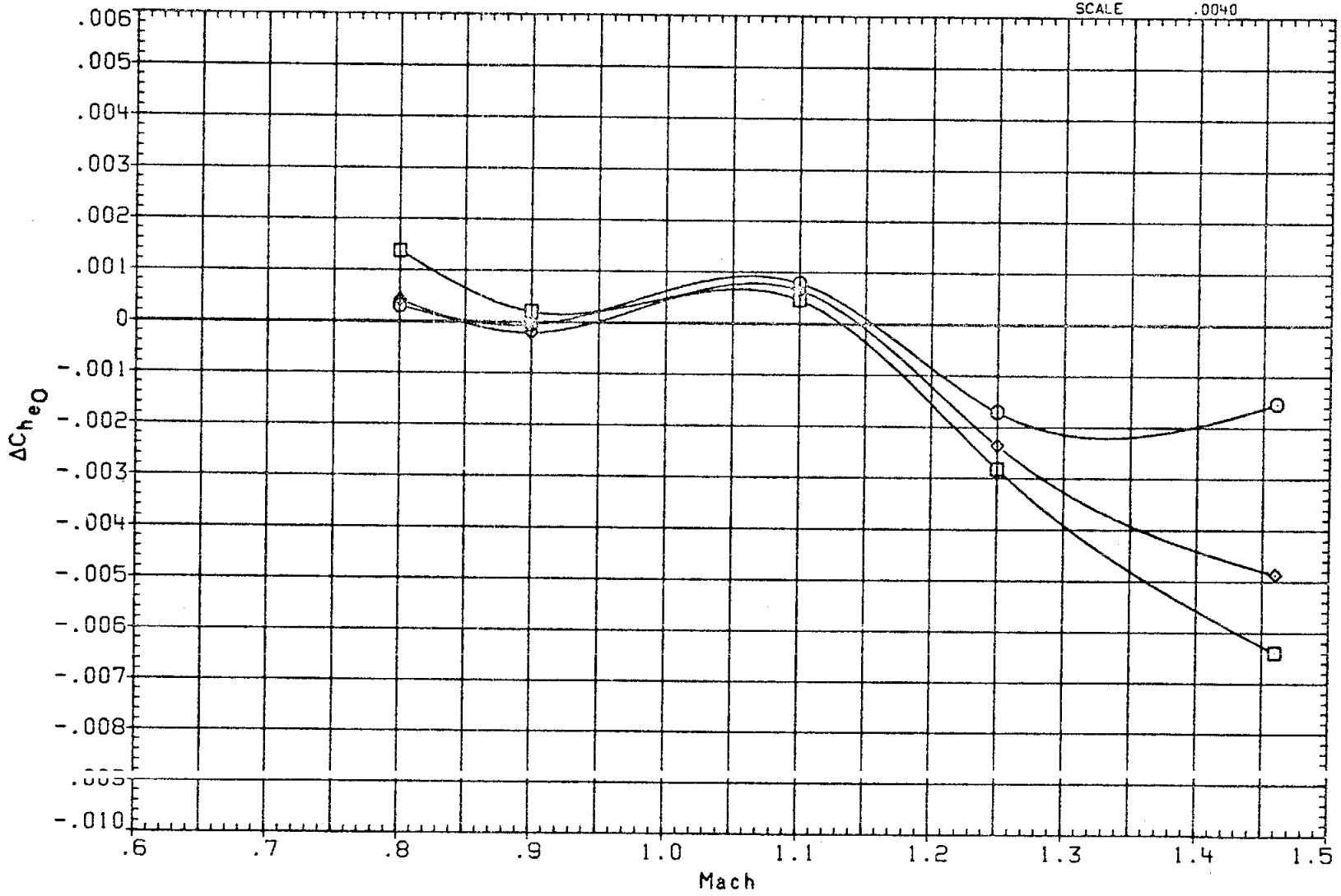

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

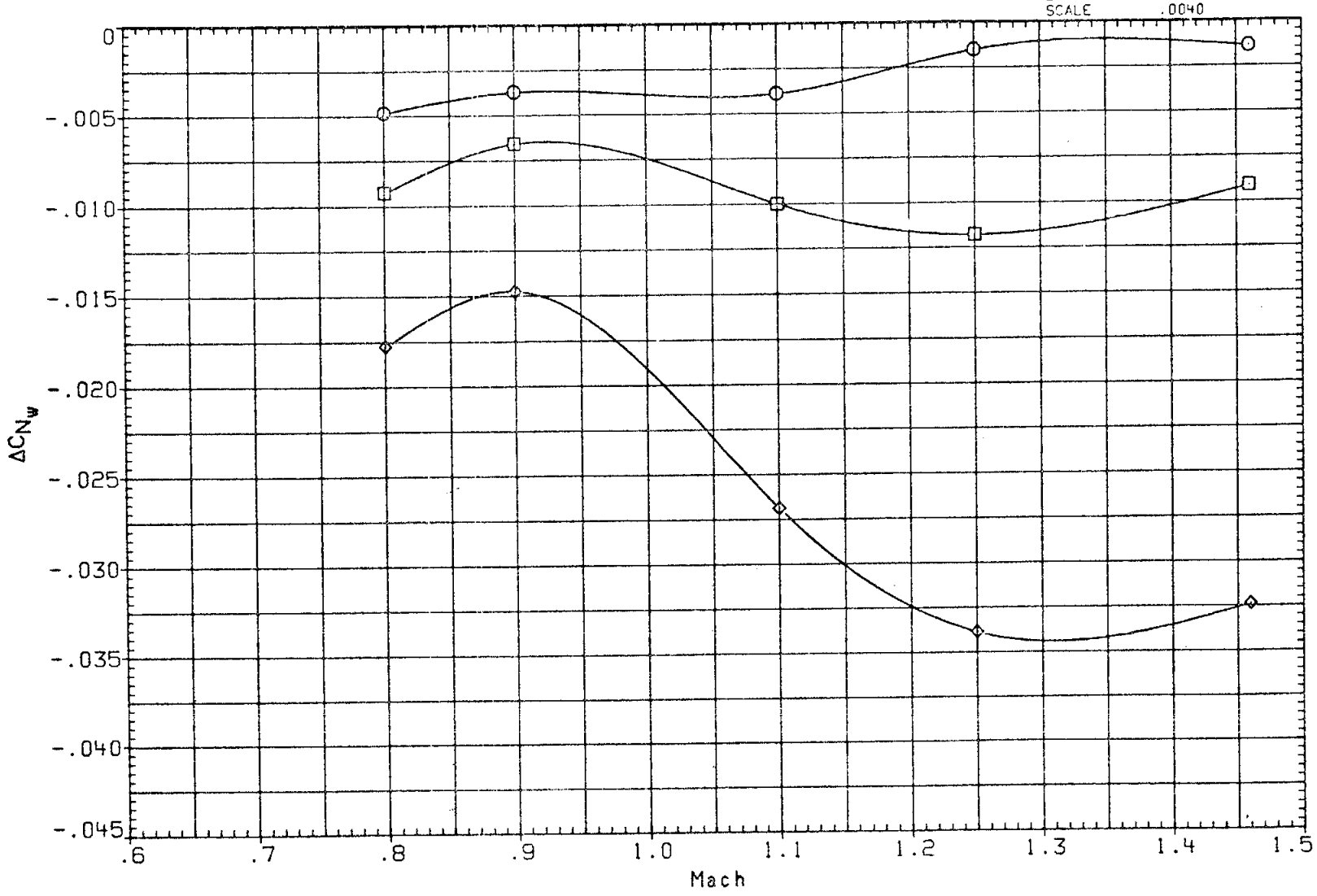

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

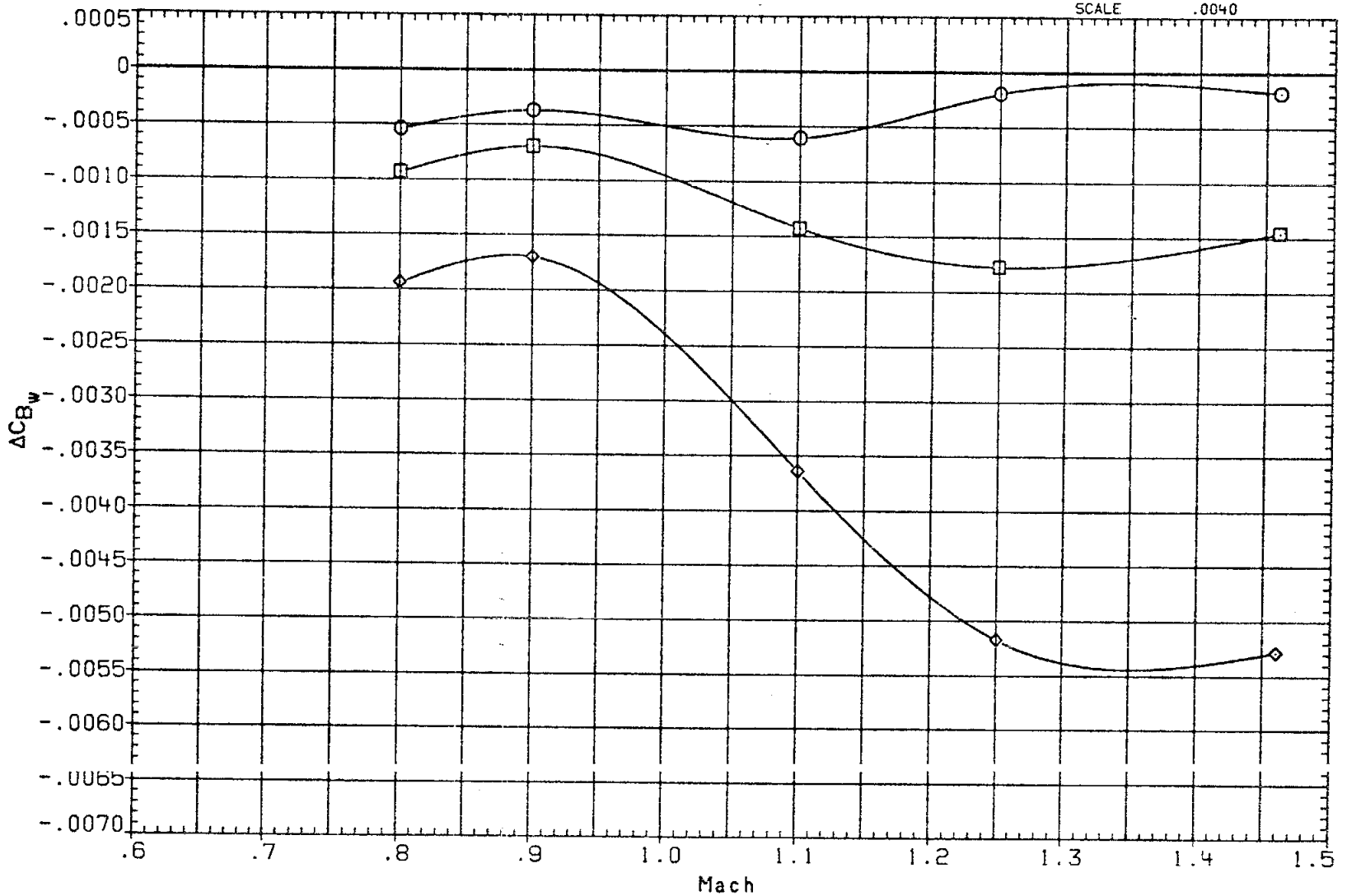

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6014	○	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	□	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6018	◇	OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

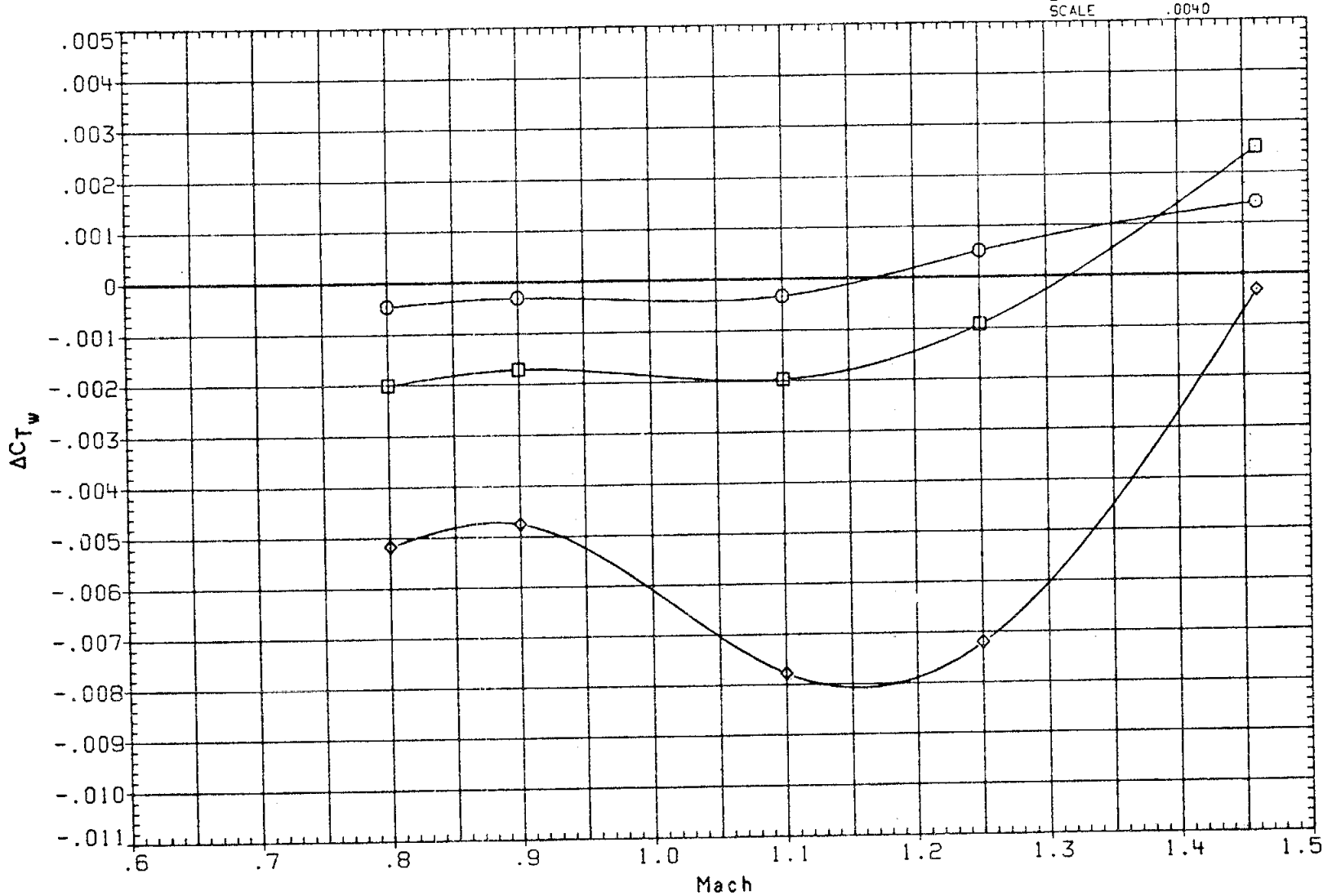

FIG. 18 INCREMENTAL ET/ORB FAIRING EFFECTS - POSITION 3 (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
AA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
AA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
AA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

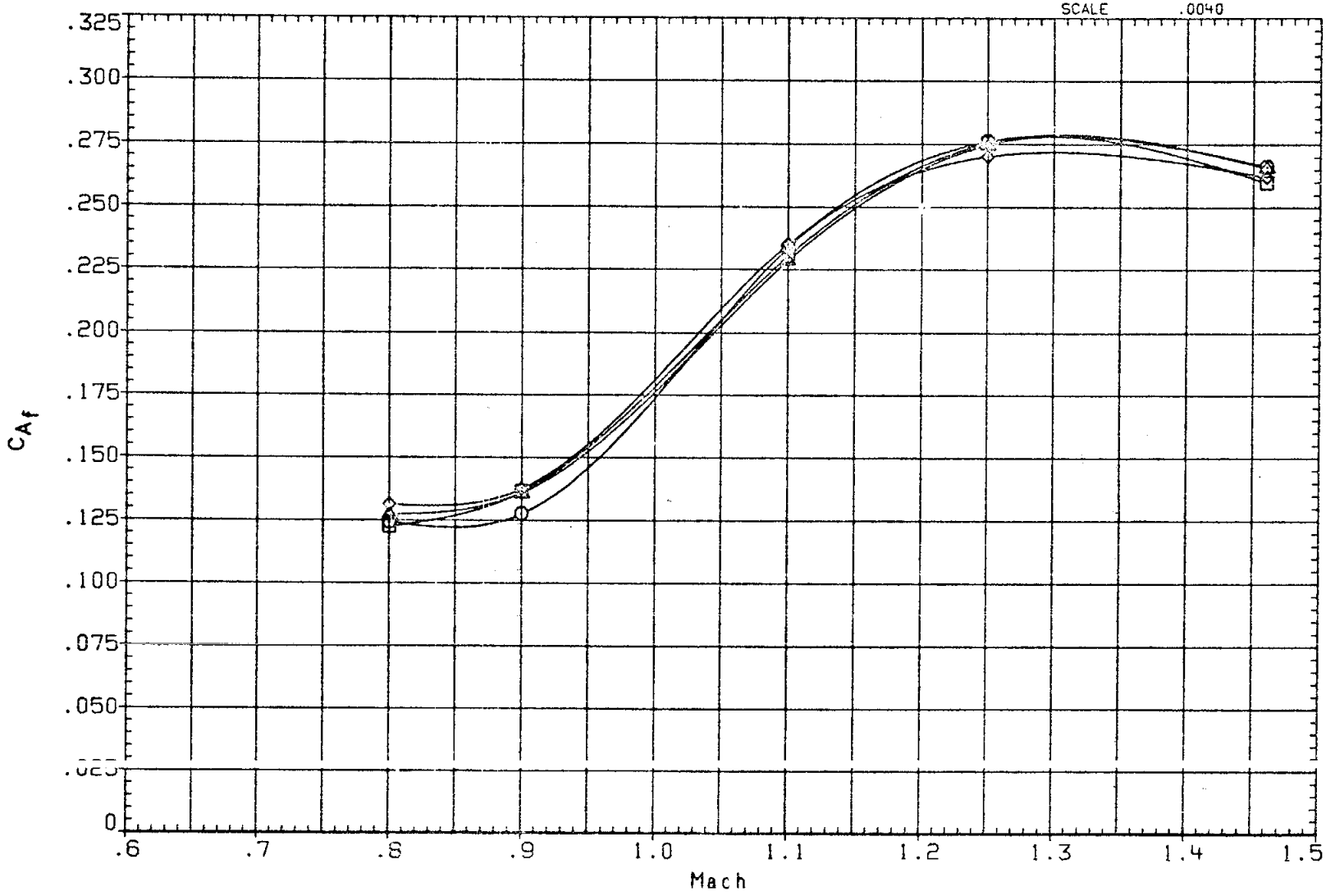

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

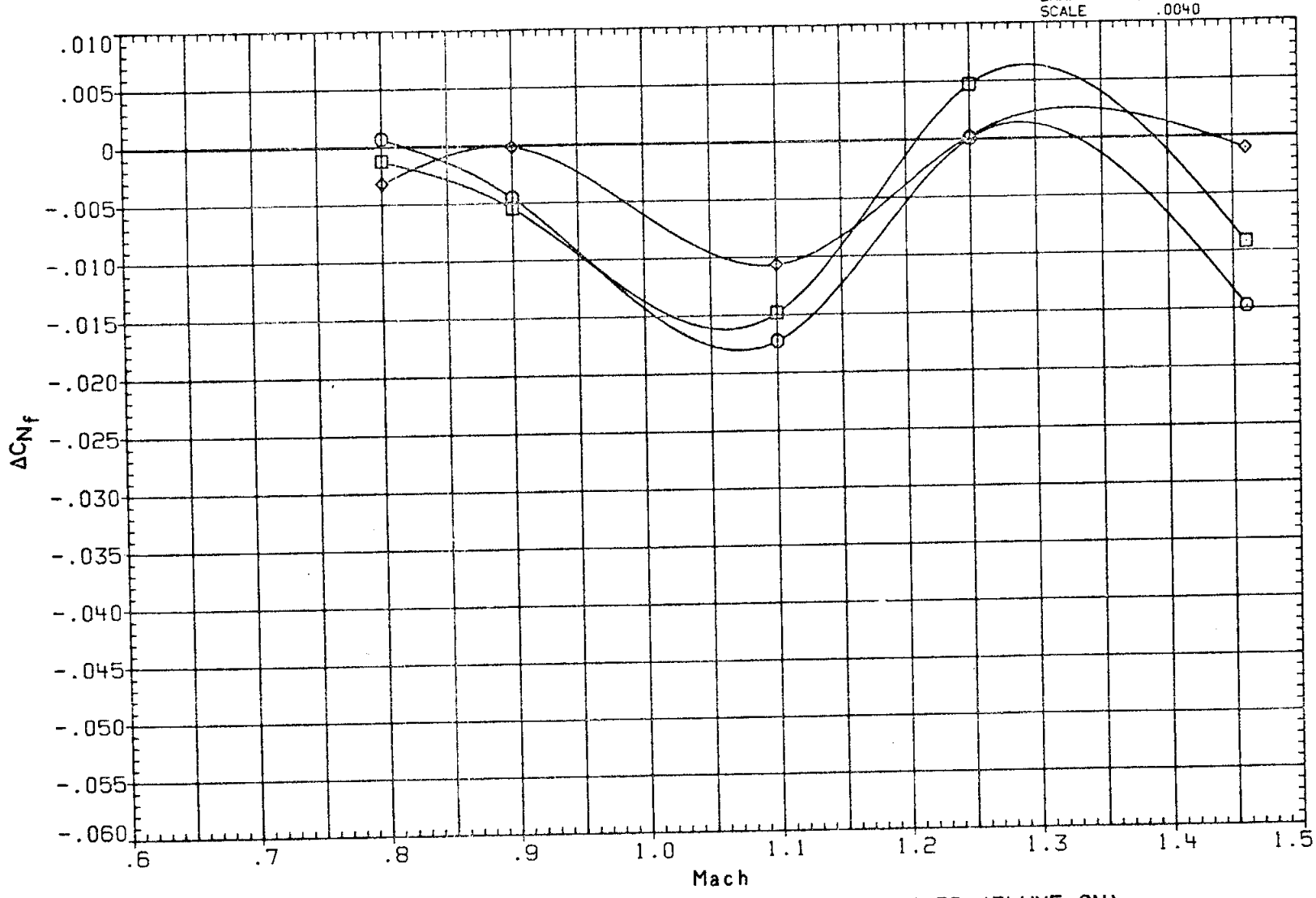

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

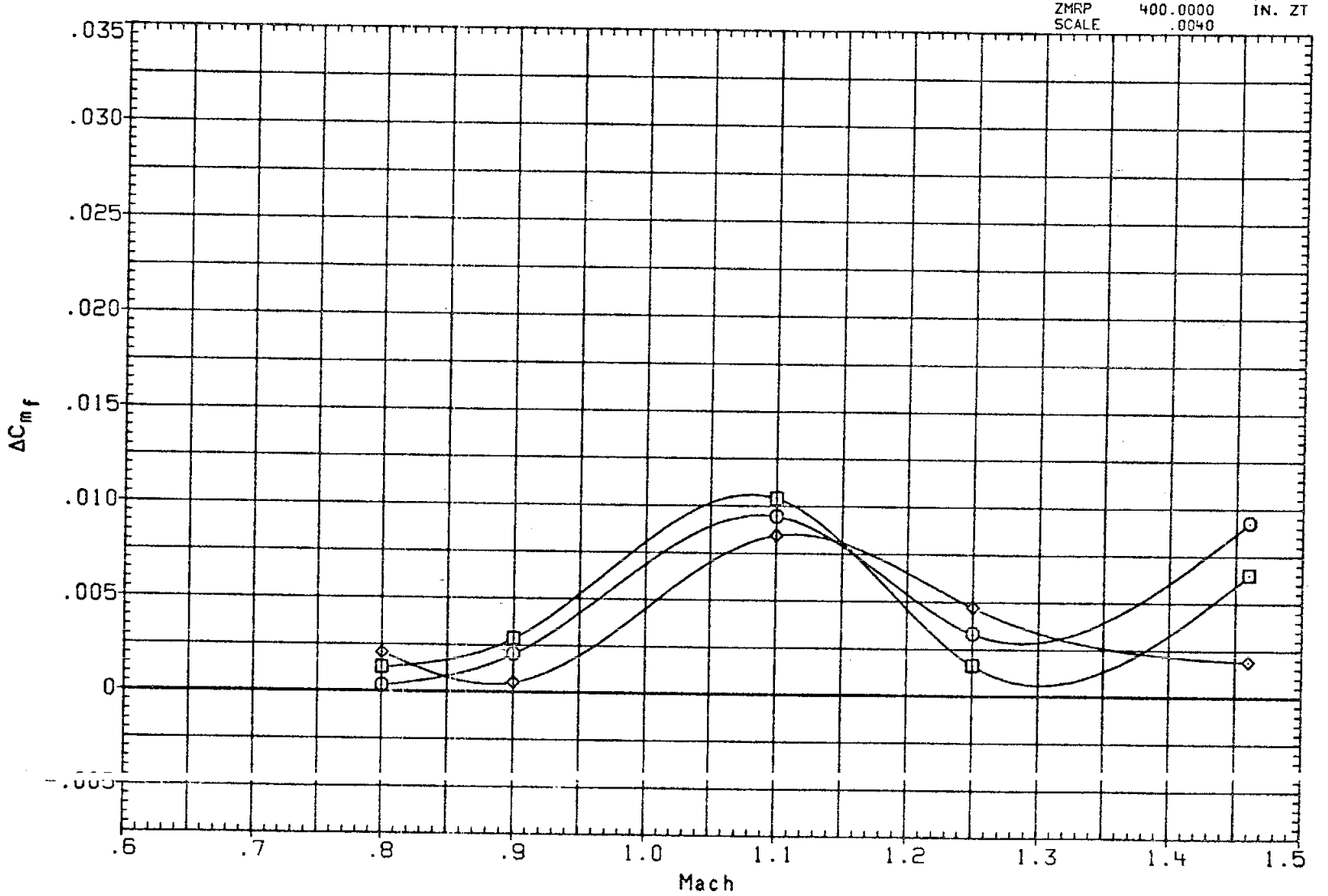

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
AA6012	□	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON	.000	10.000	5.000	ON
AA6013	◇	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON	.000	10.000	5.000	ON
AA6014	△	MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

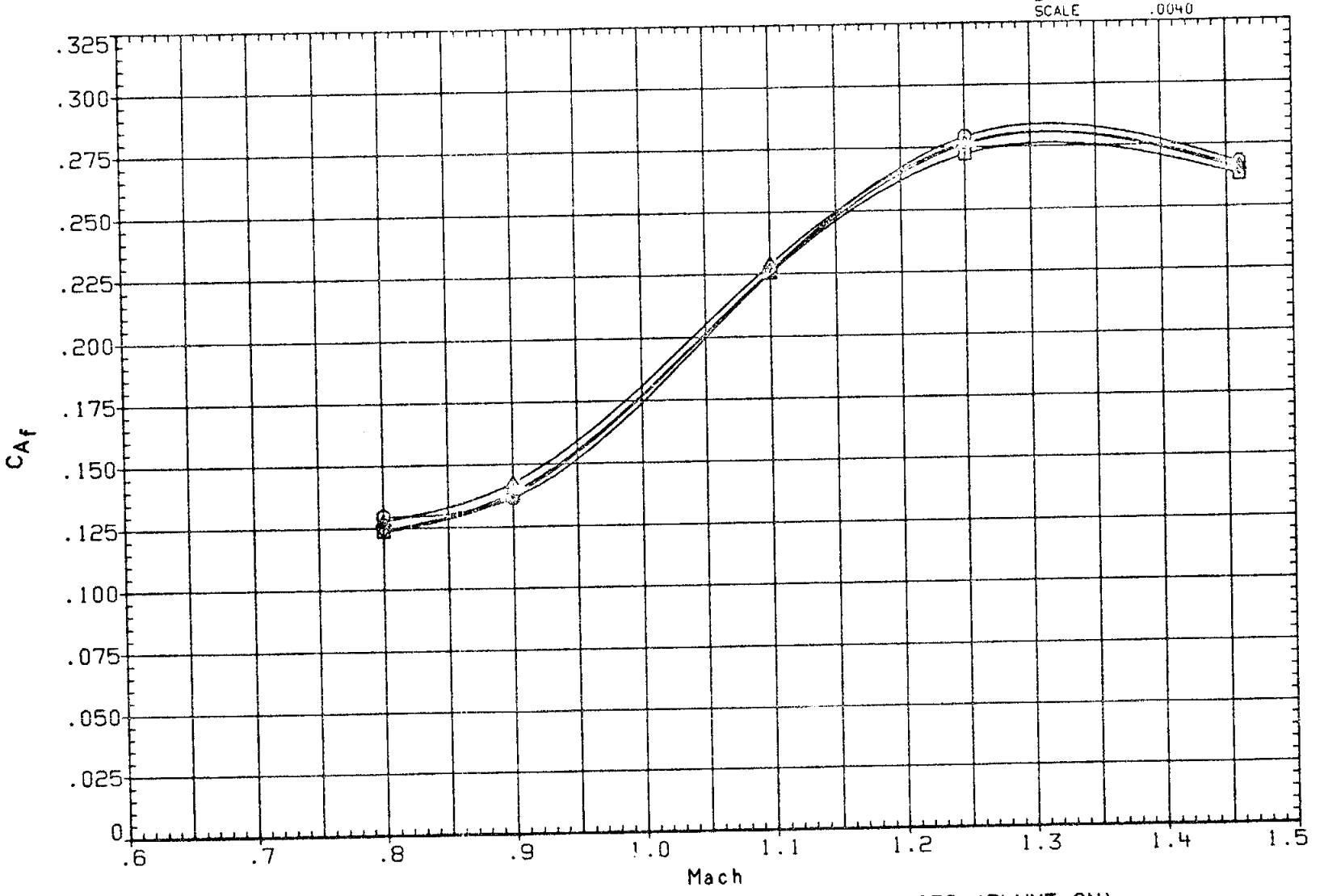

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

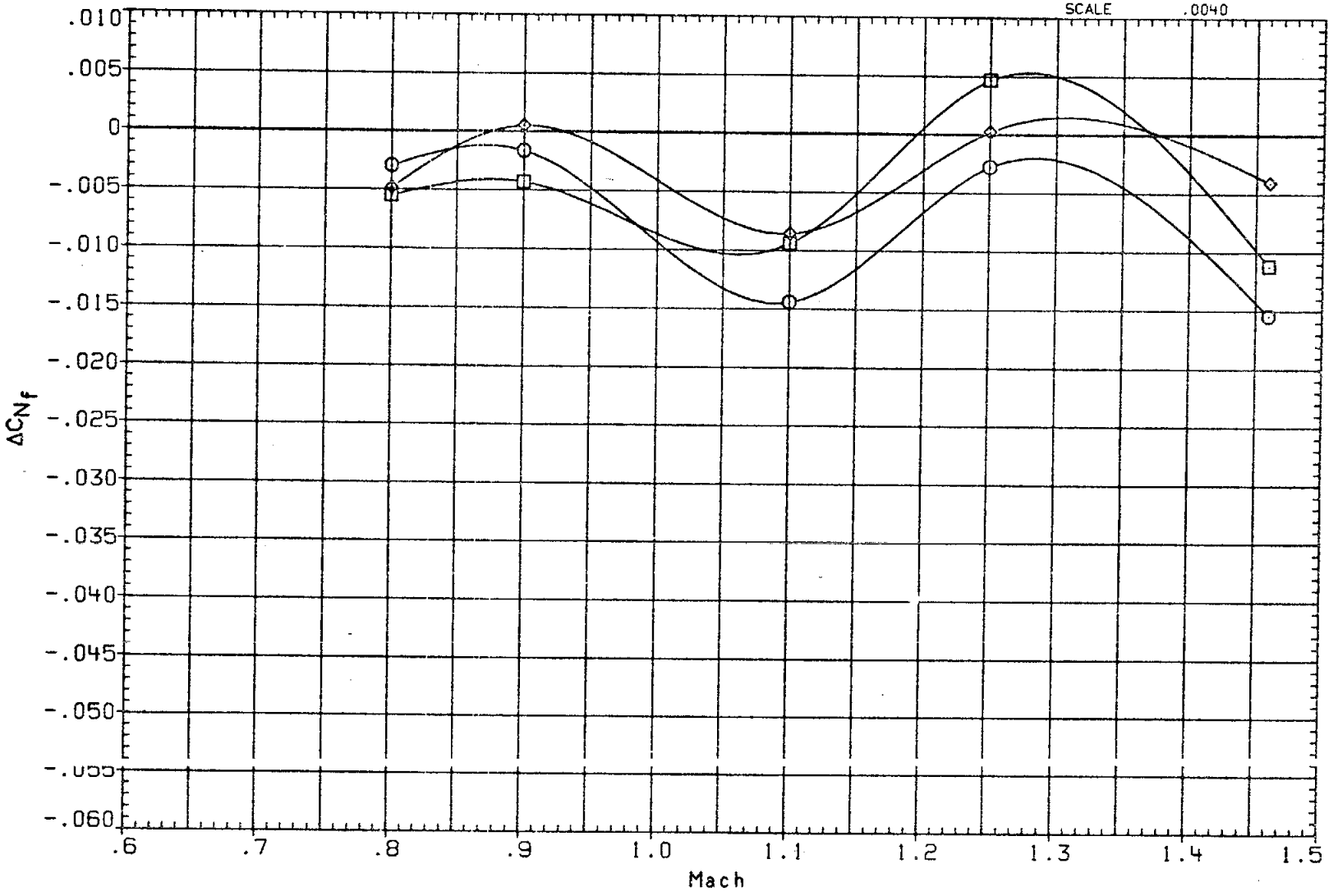

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

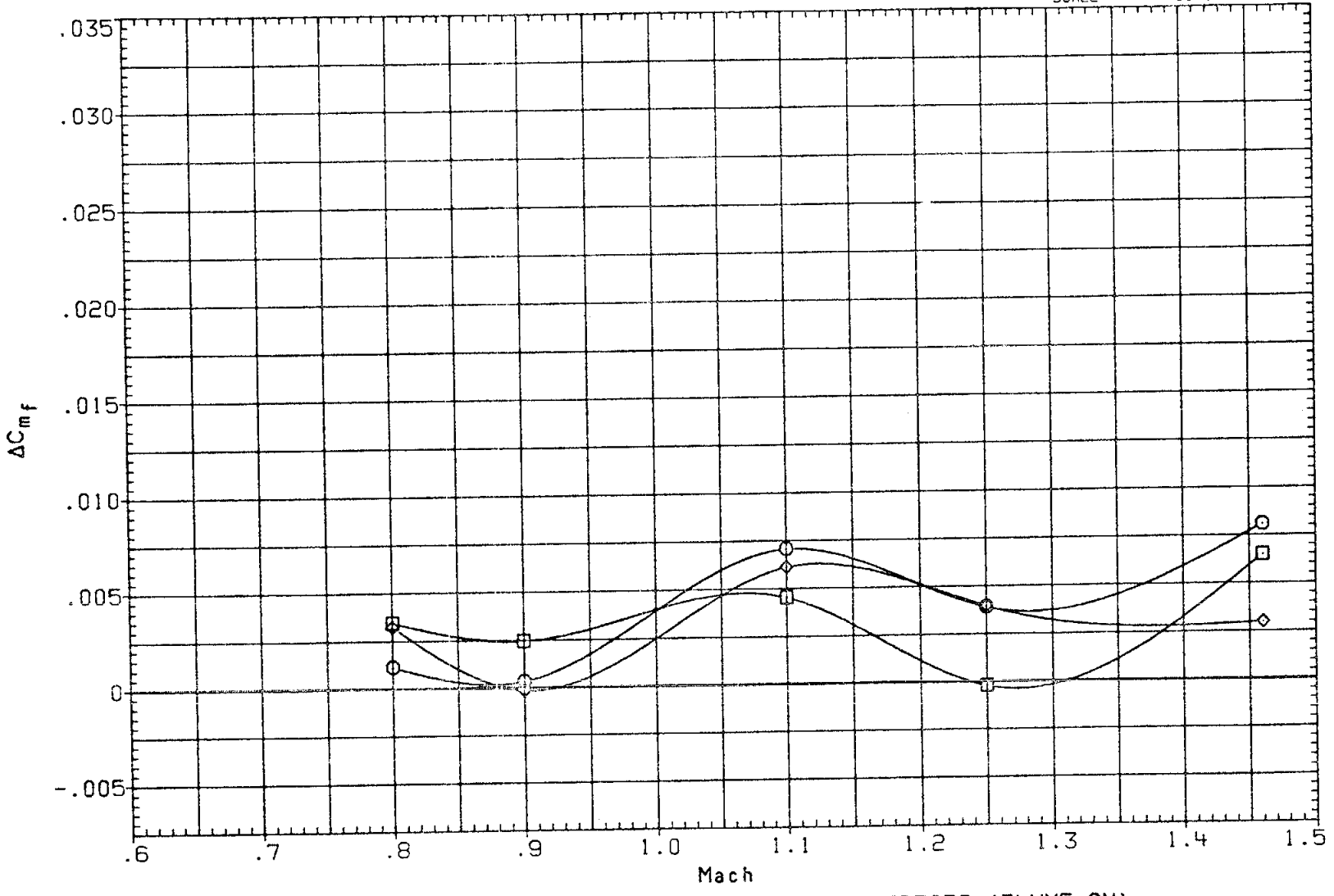

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

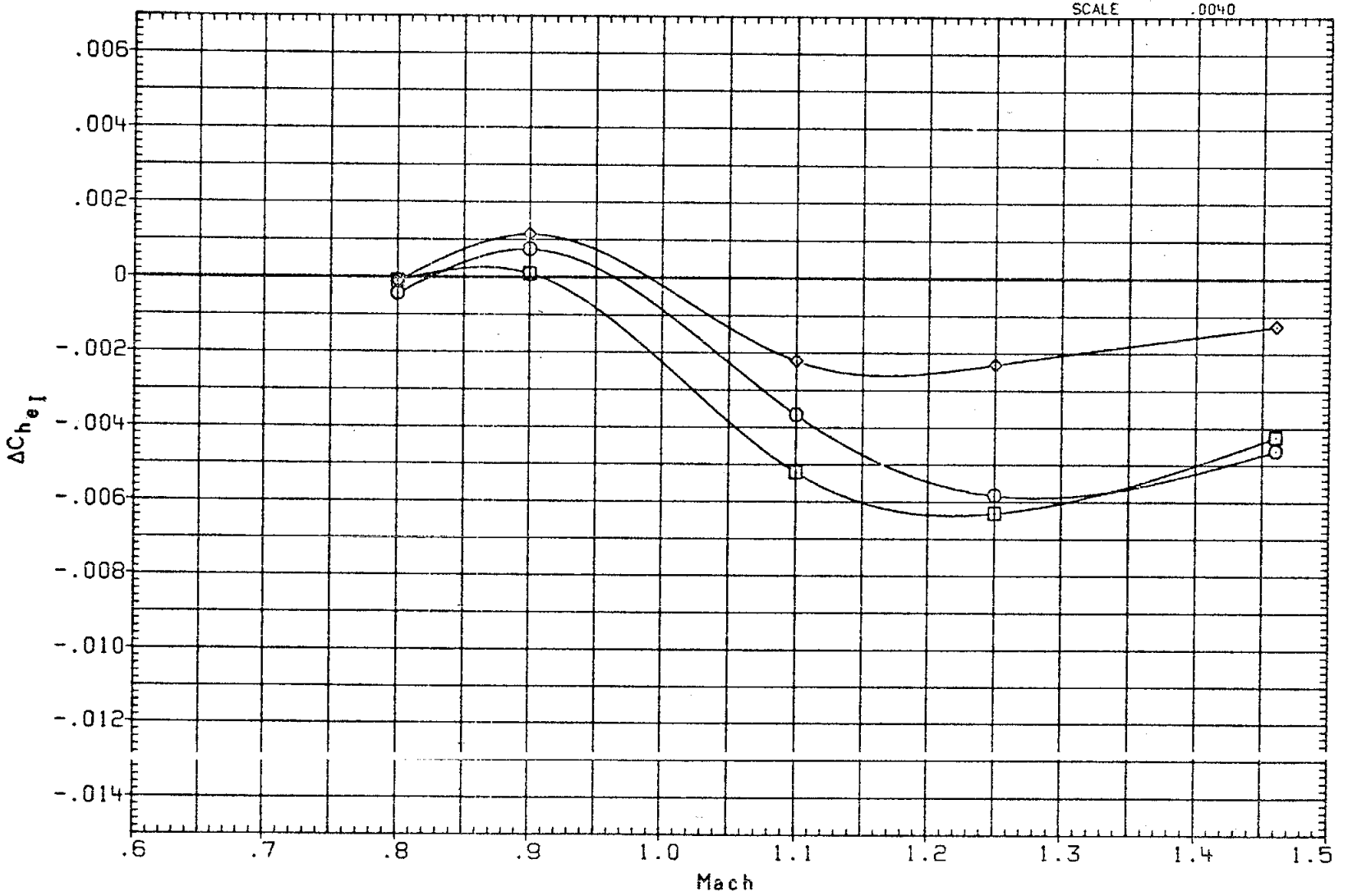

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

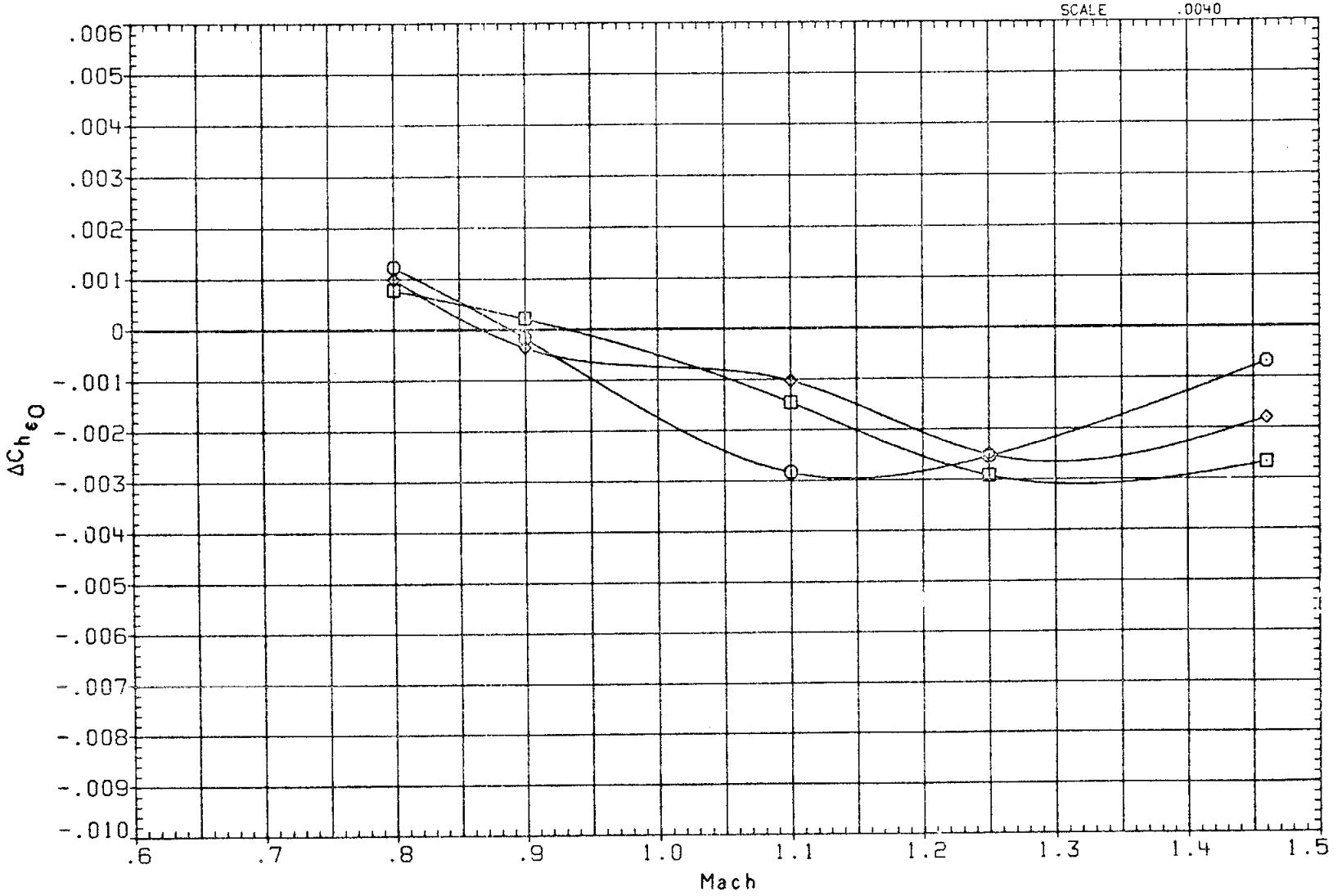

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

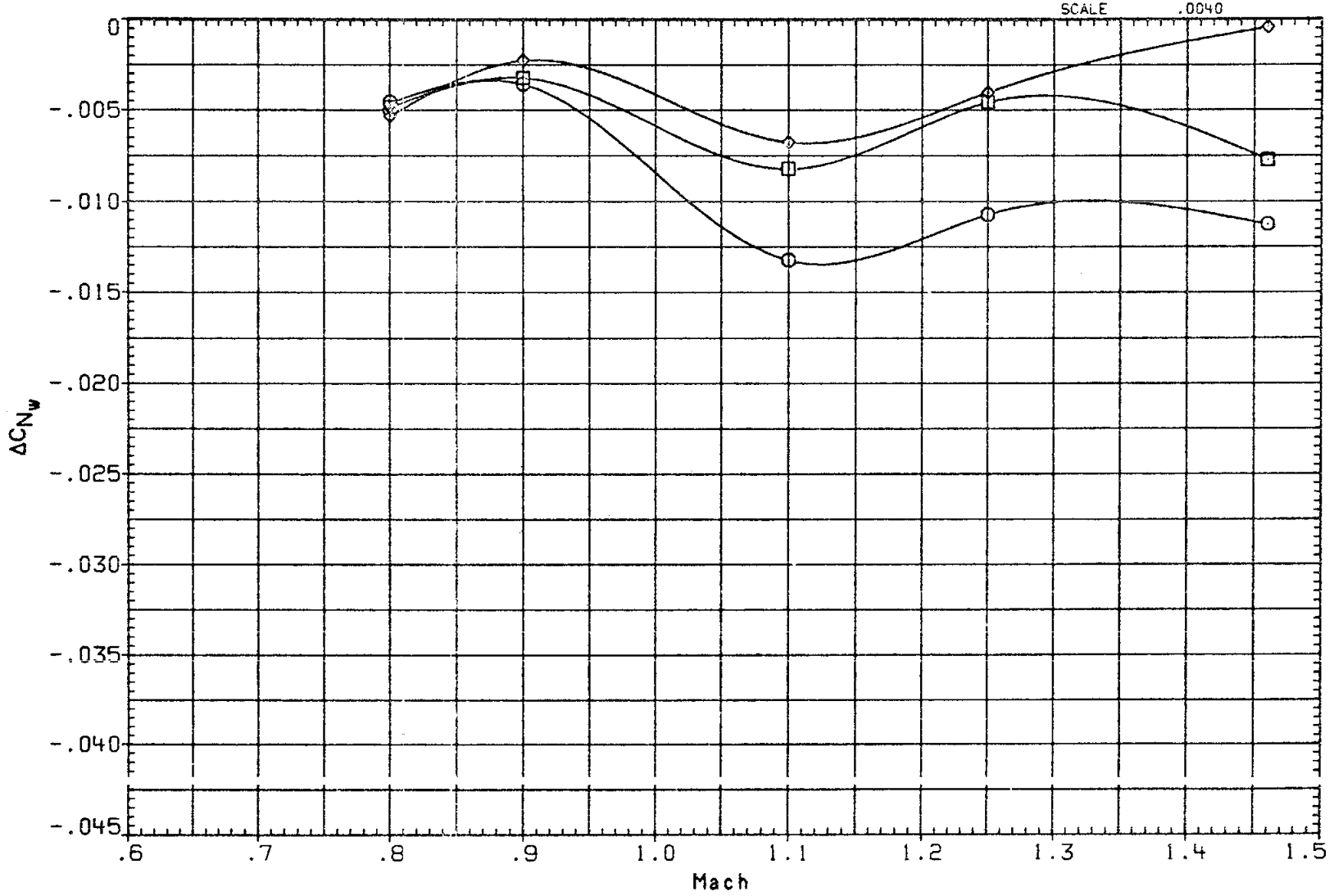

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

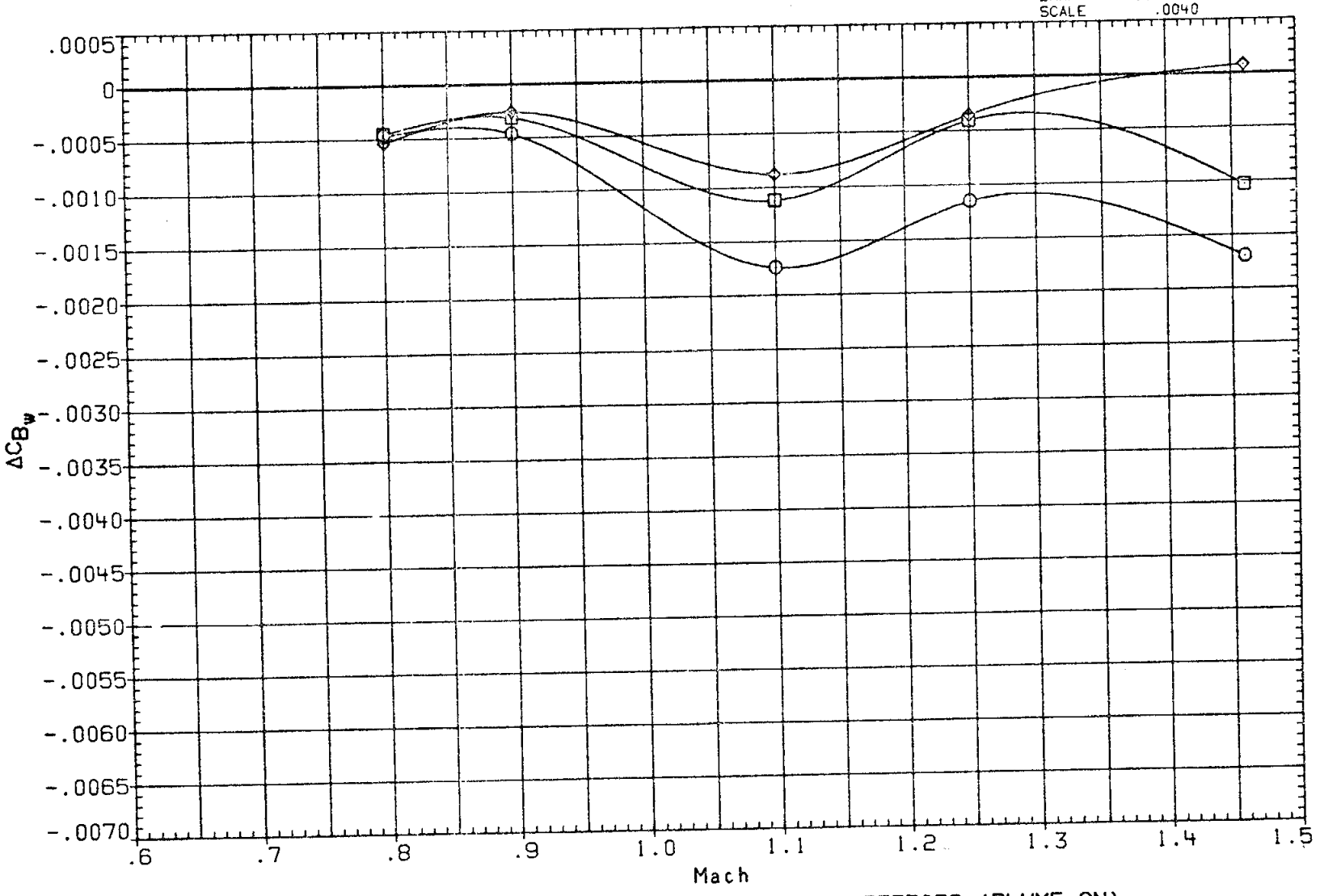

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

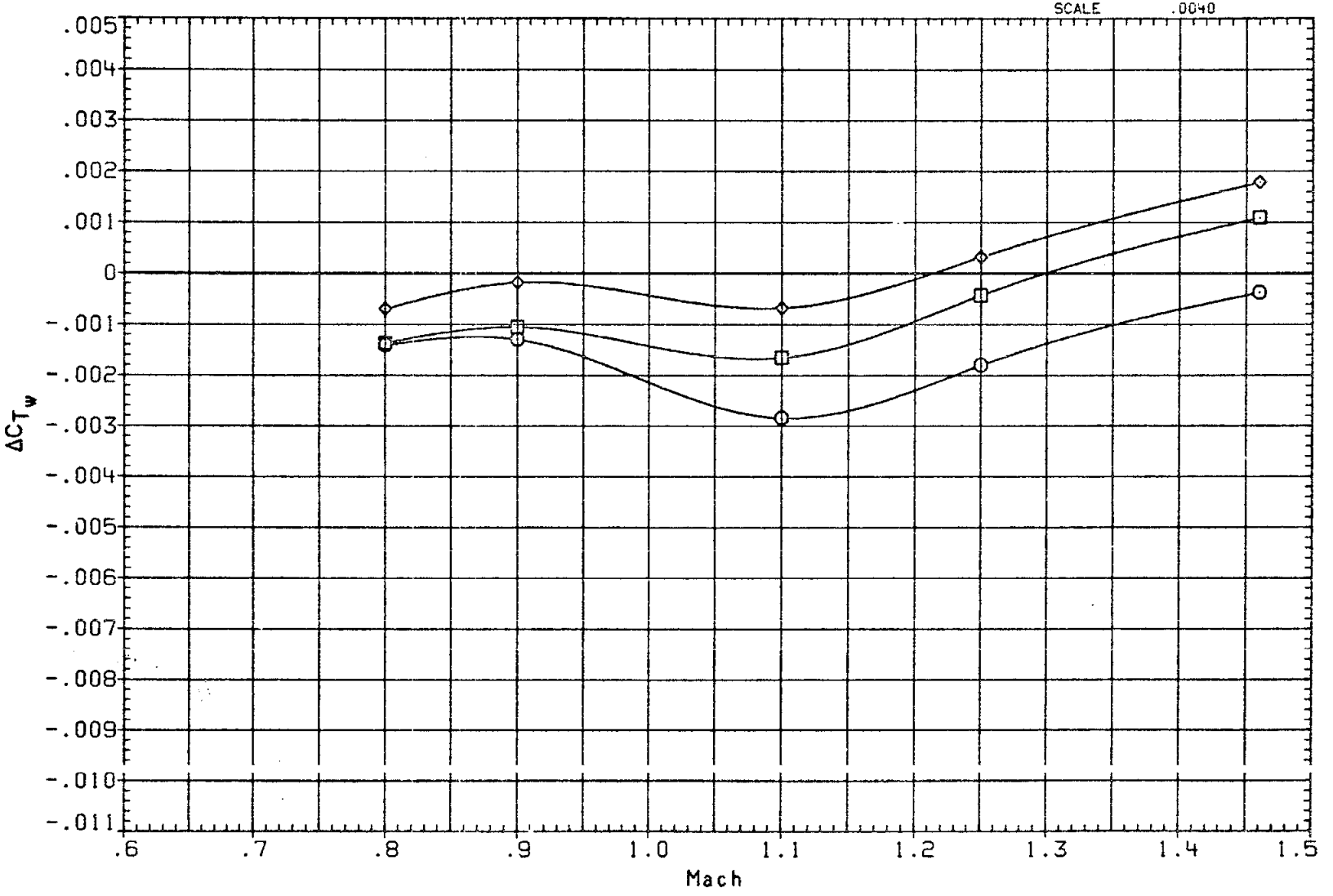

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

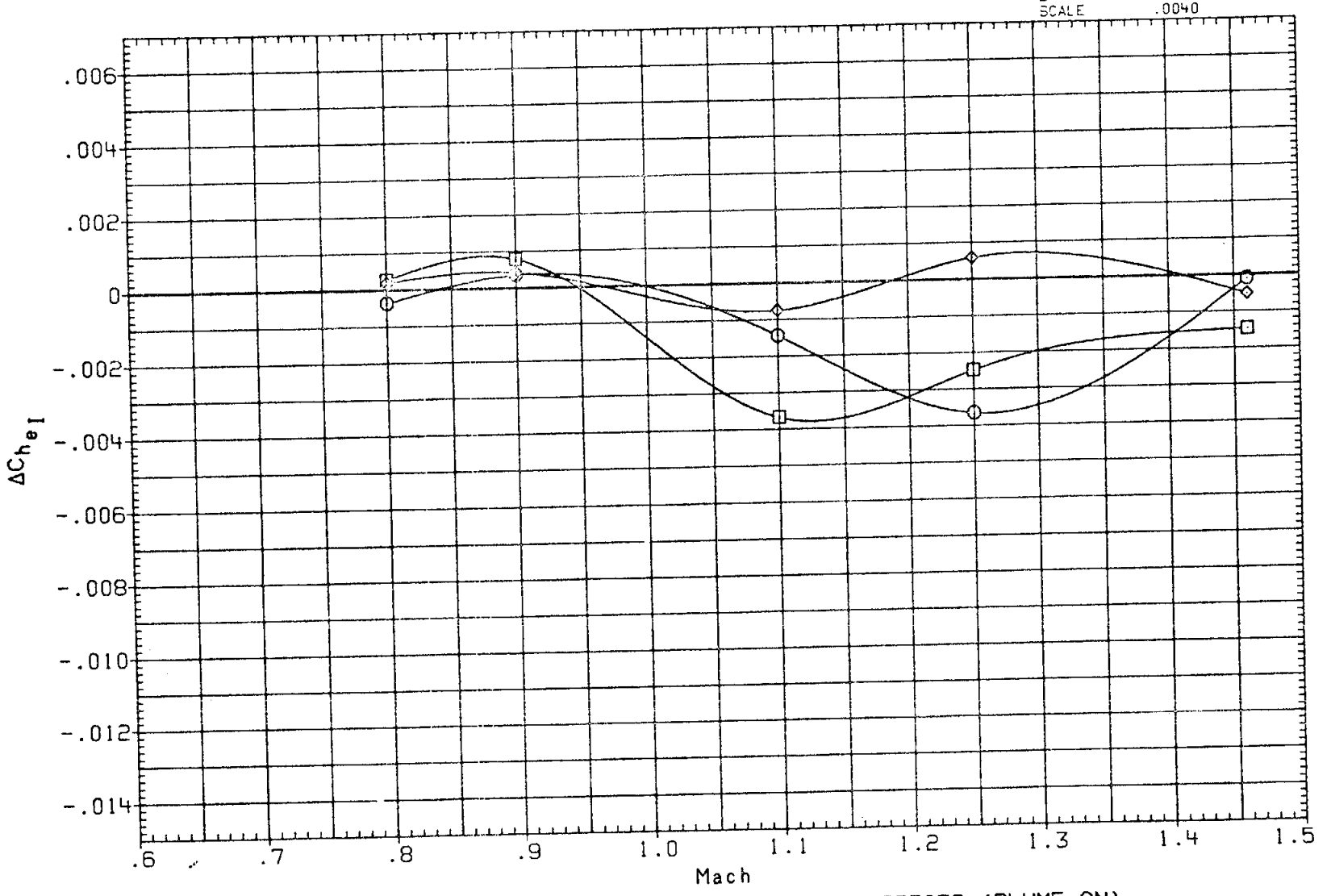

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

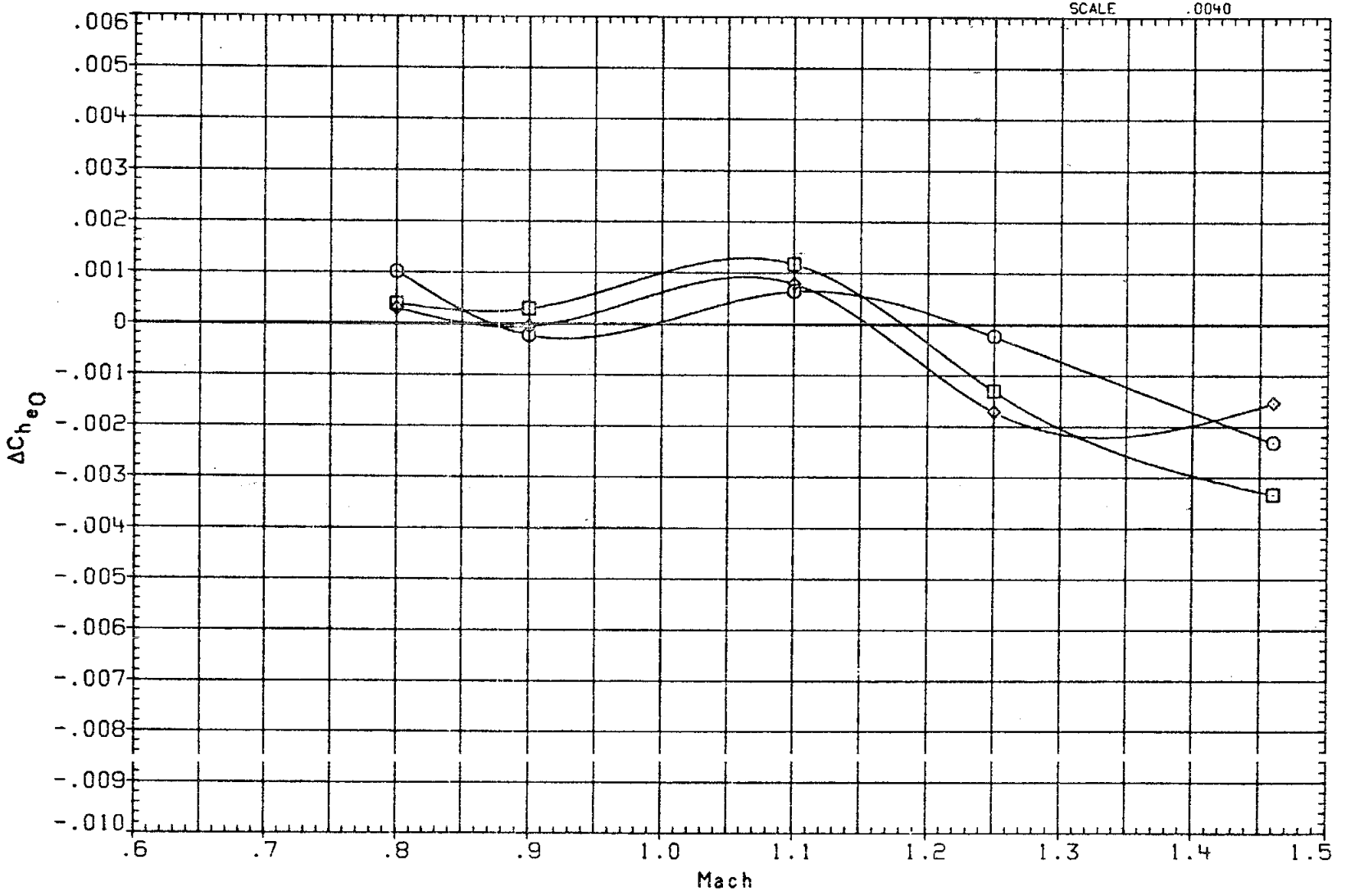

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(B) ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

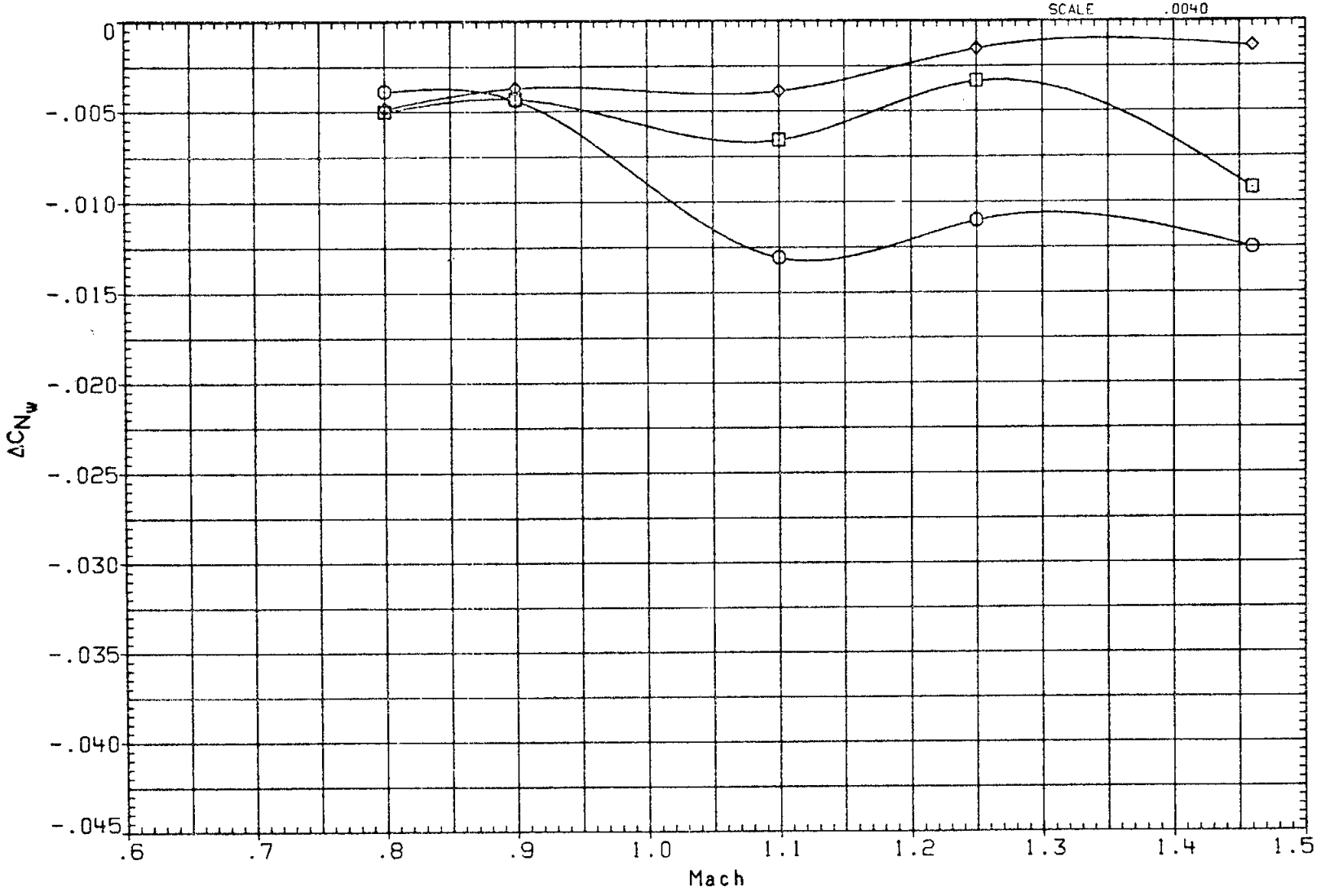

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

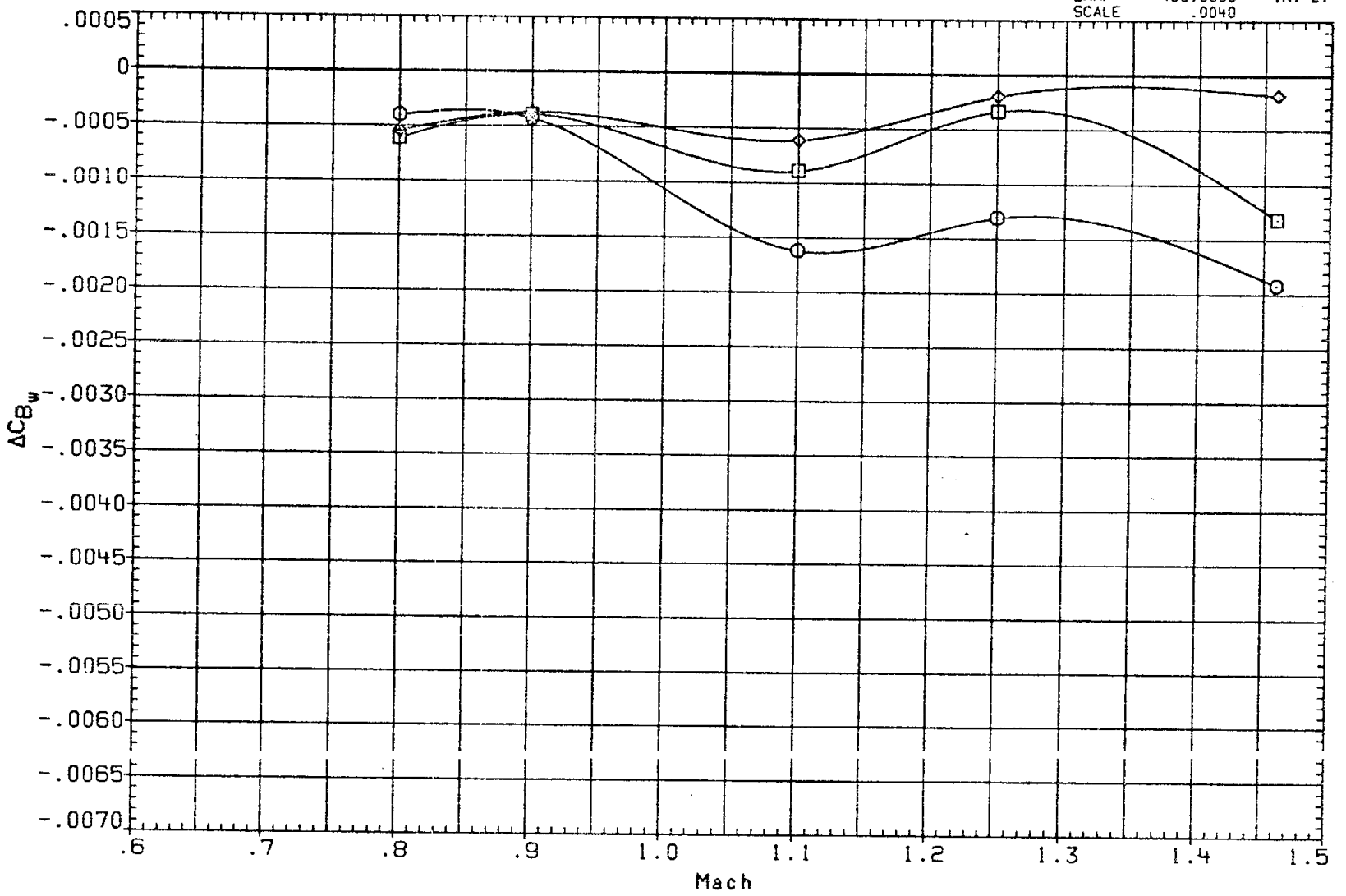

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6012	○	OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6013	□	OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6014	◇	OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

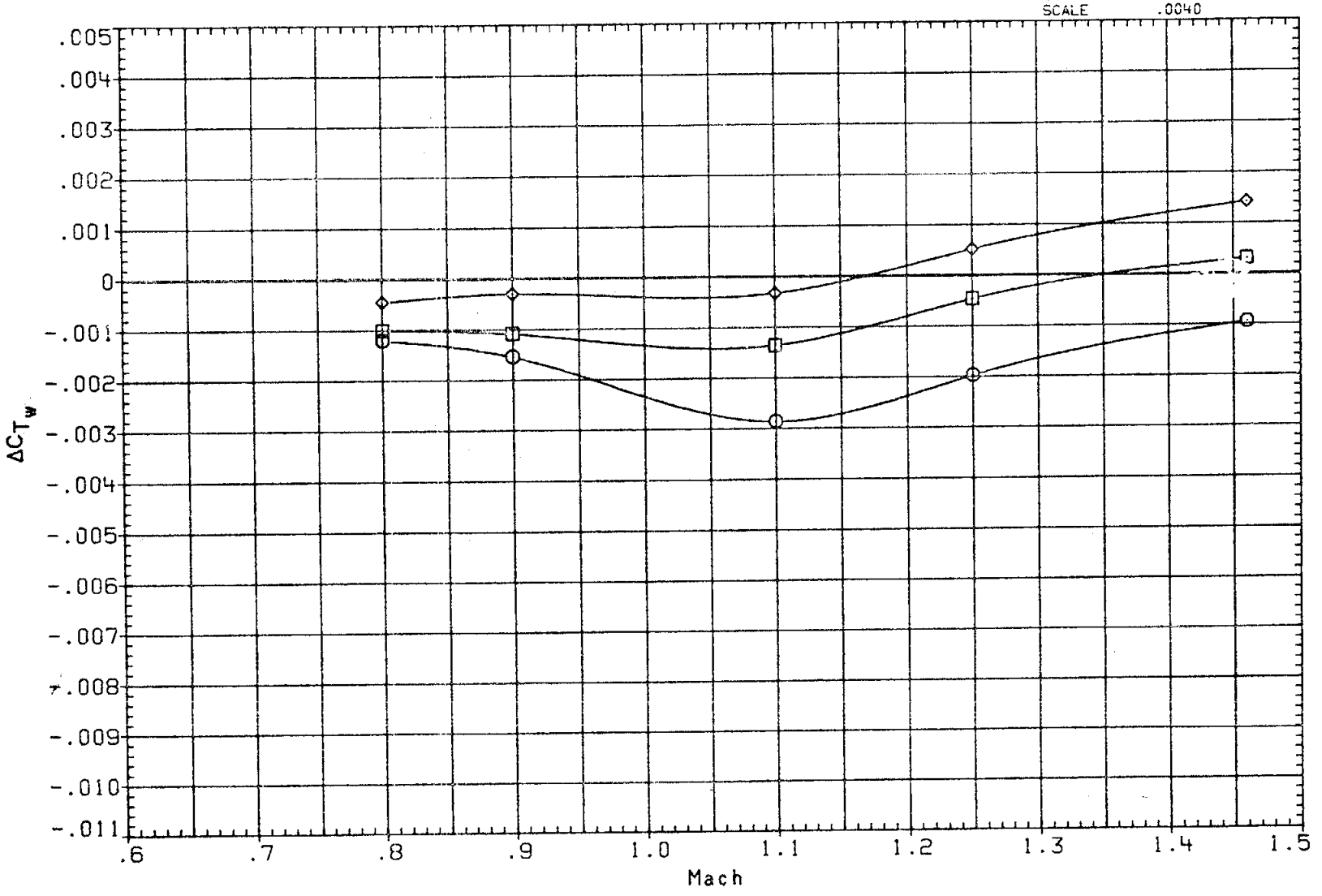

FIG. 19 INCREMENTAL 10 DEG. RAMP FAIRING POSITION EFFECTS (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
AA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
AA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
AA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

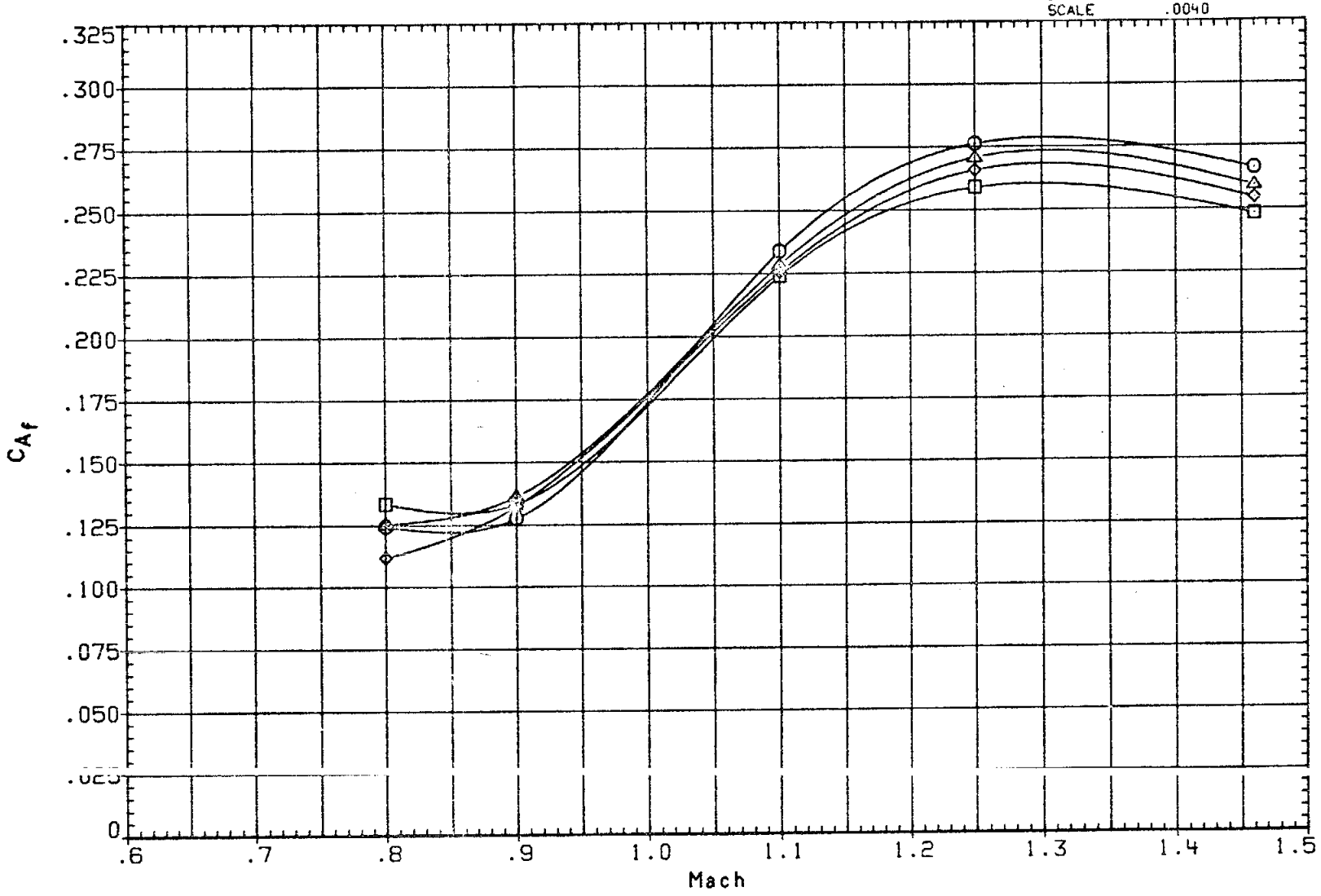

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

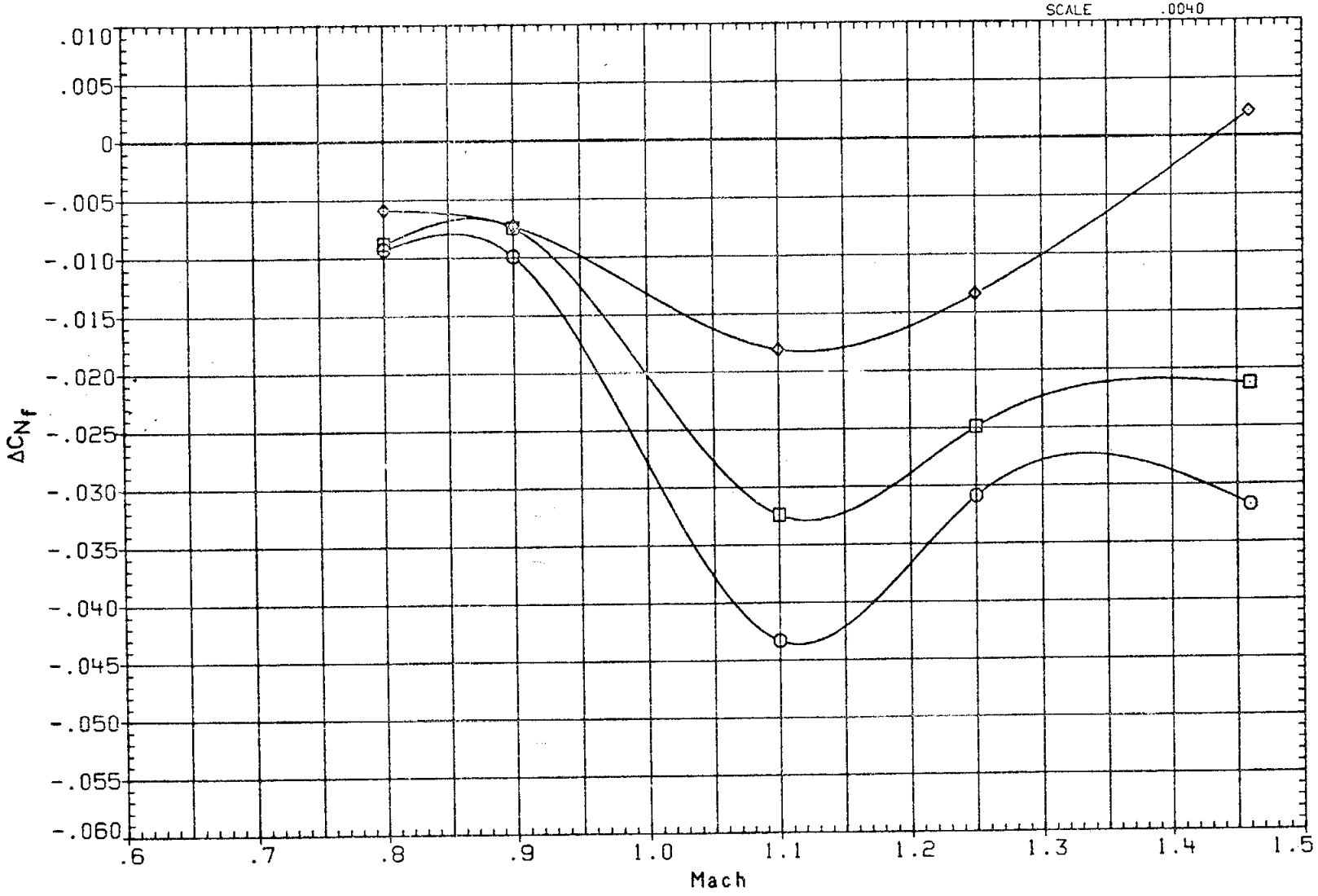

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

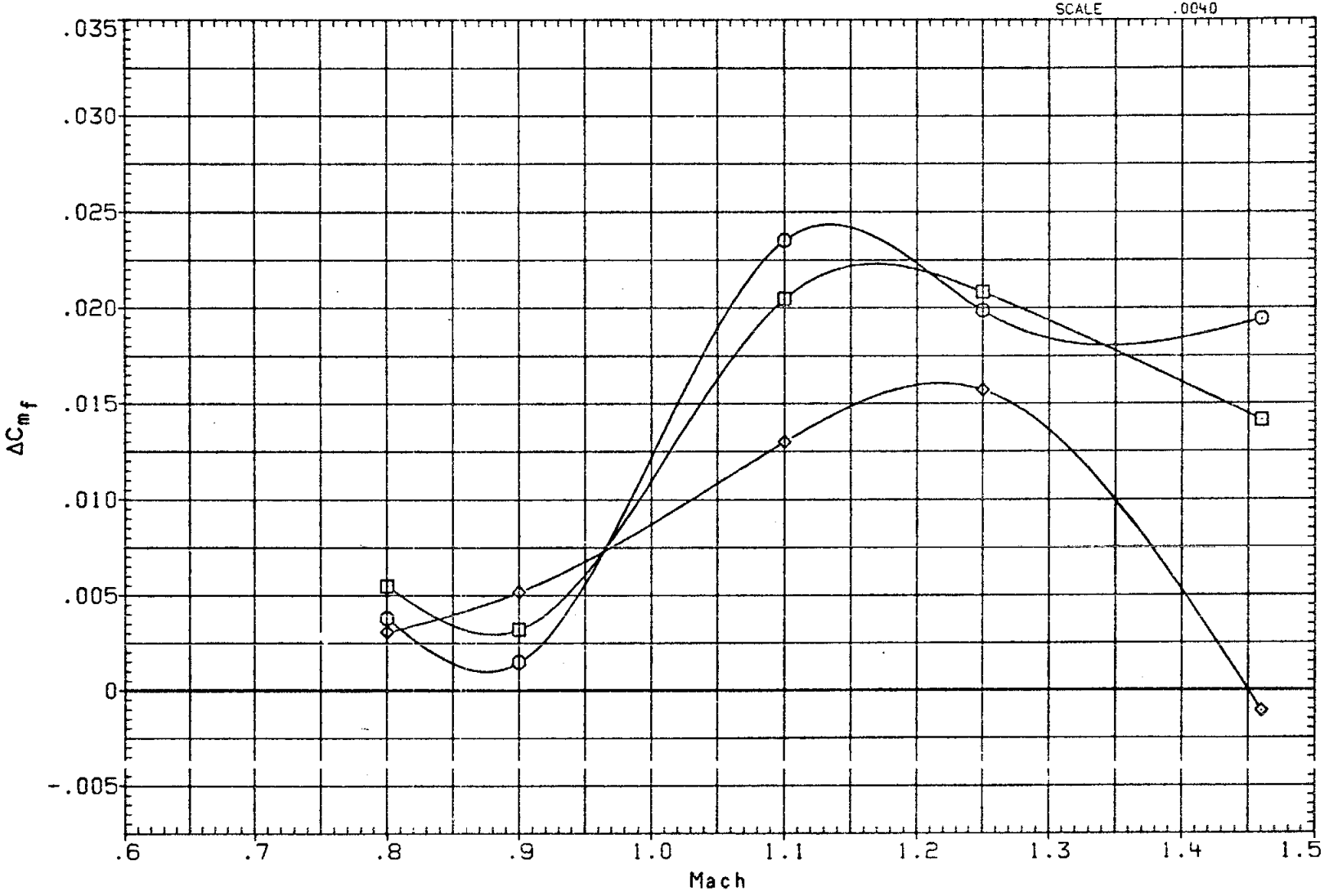

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
AA6011	○	MSFC TWT 692, O T S (BASELINE) - PLUME ON	.000	10.000	5.000	ON
AA6015	□	MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON	.000	10.000	5.000	ON
AA6016	◇	MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON	.000	10.000	5.000	ON
AA6017	△	MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

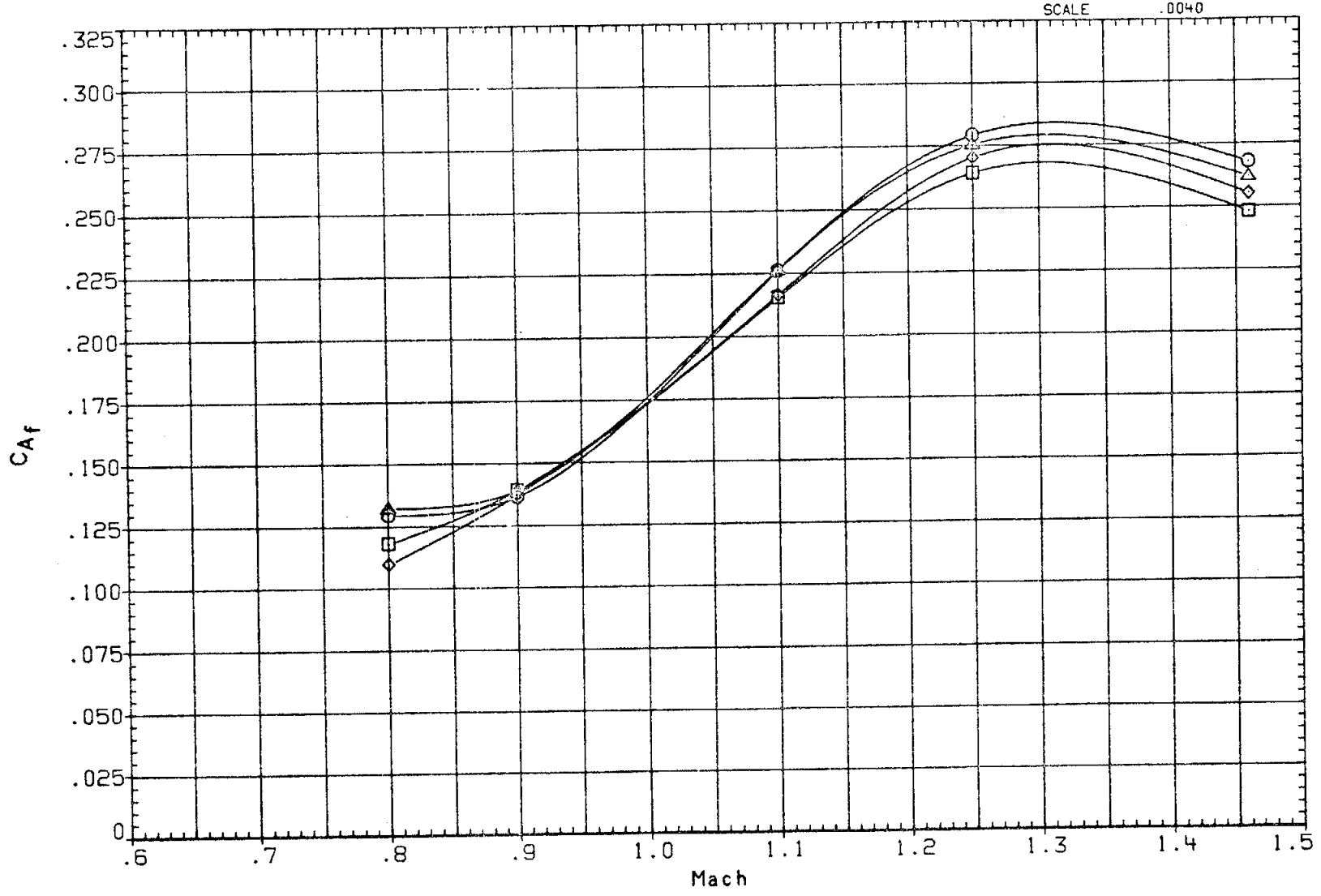

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

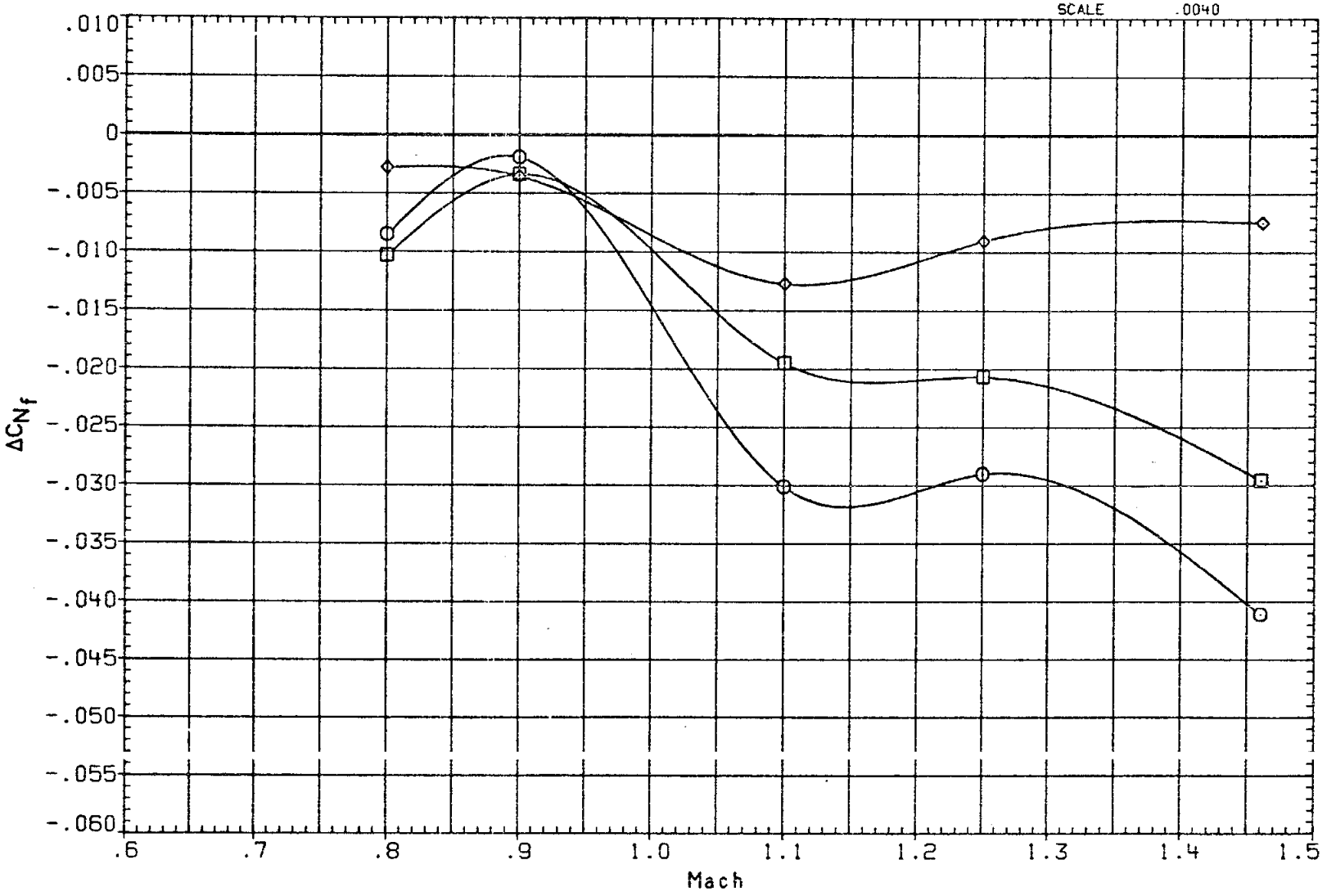

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
JA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
JA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

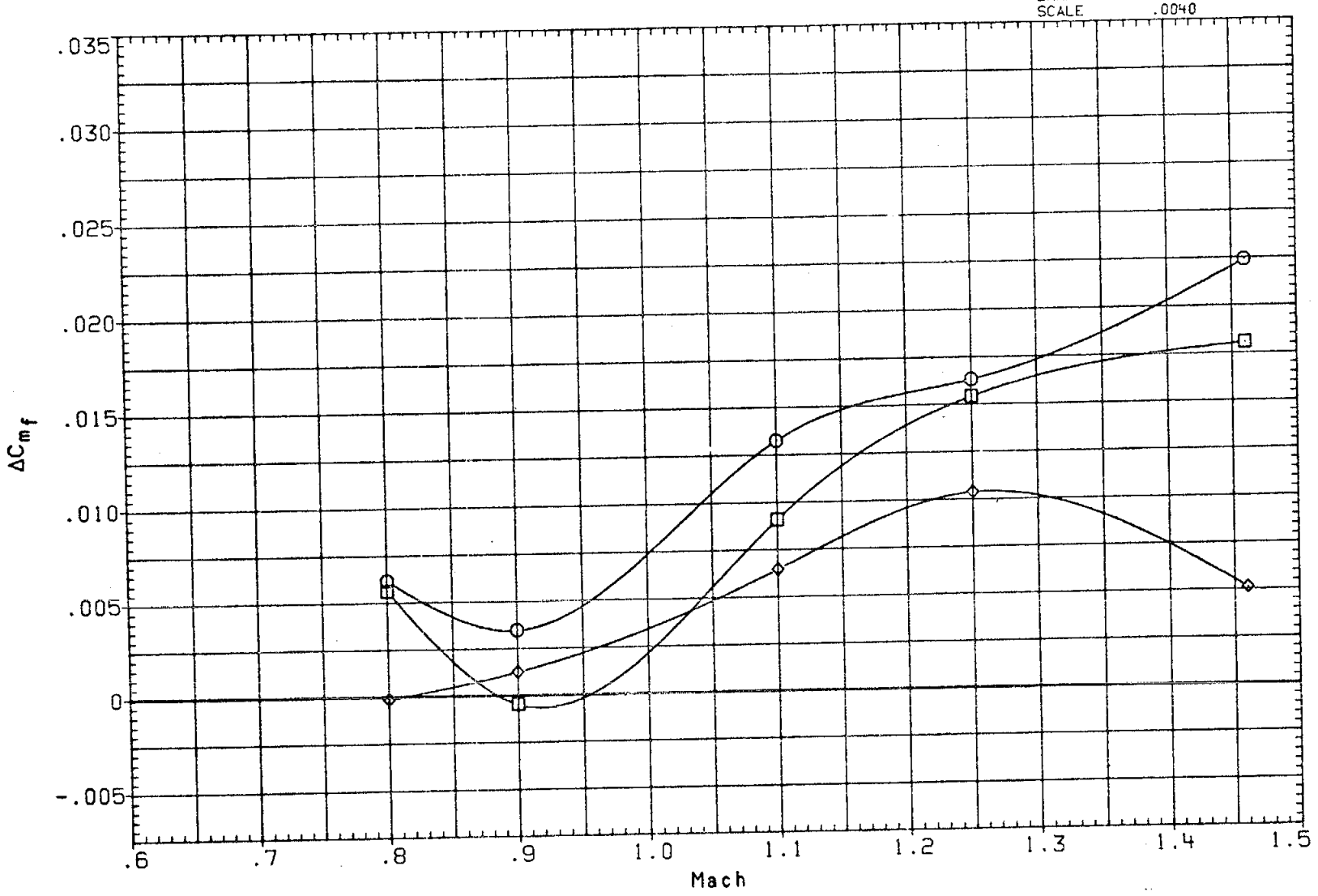

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

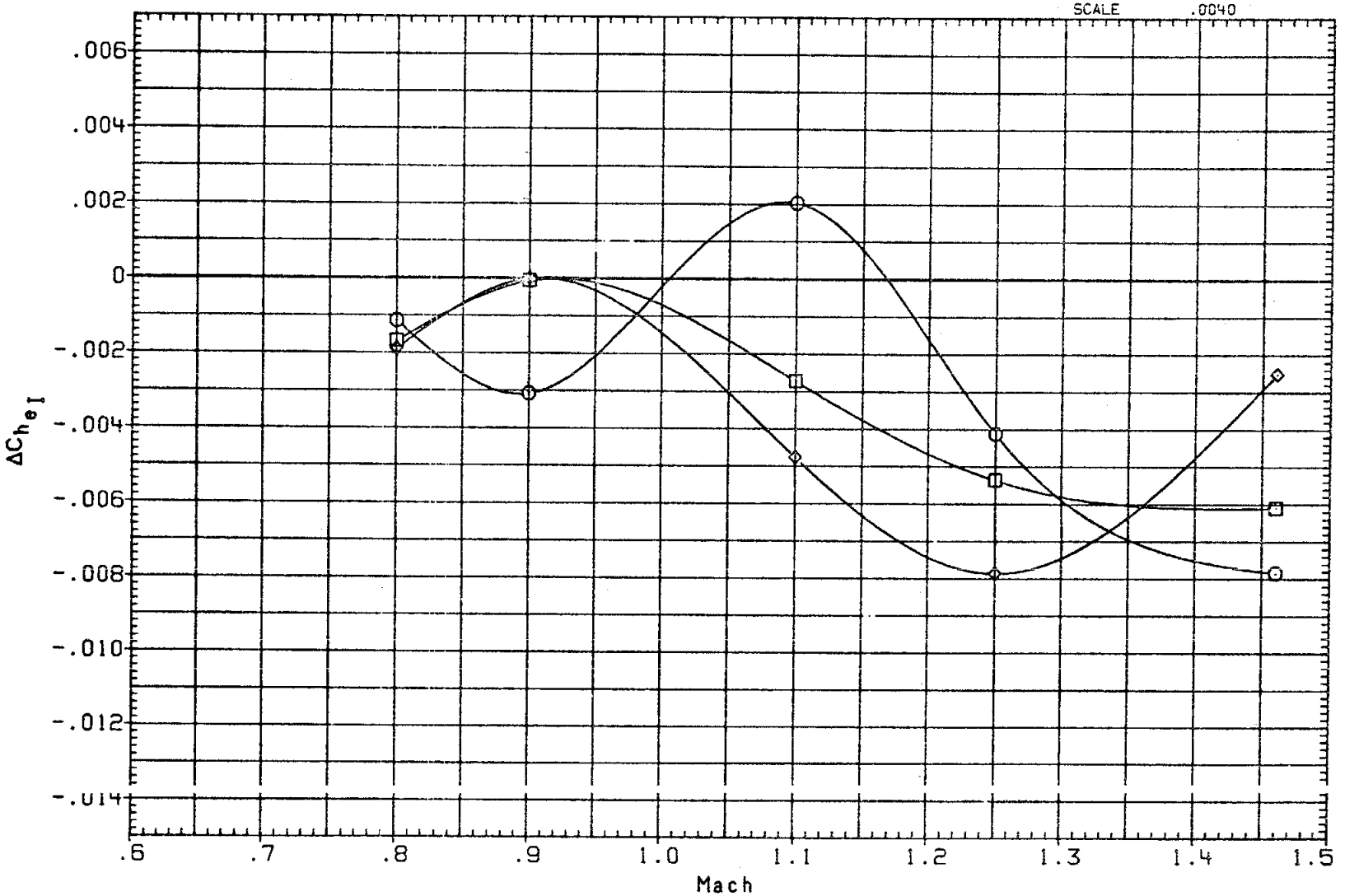

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A) ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

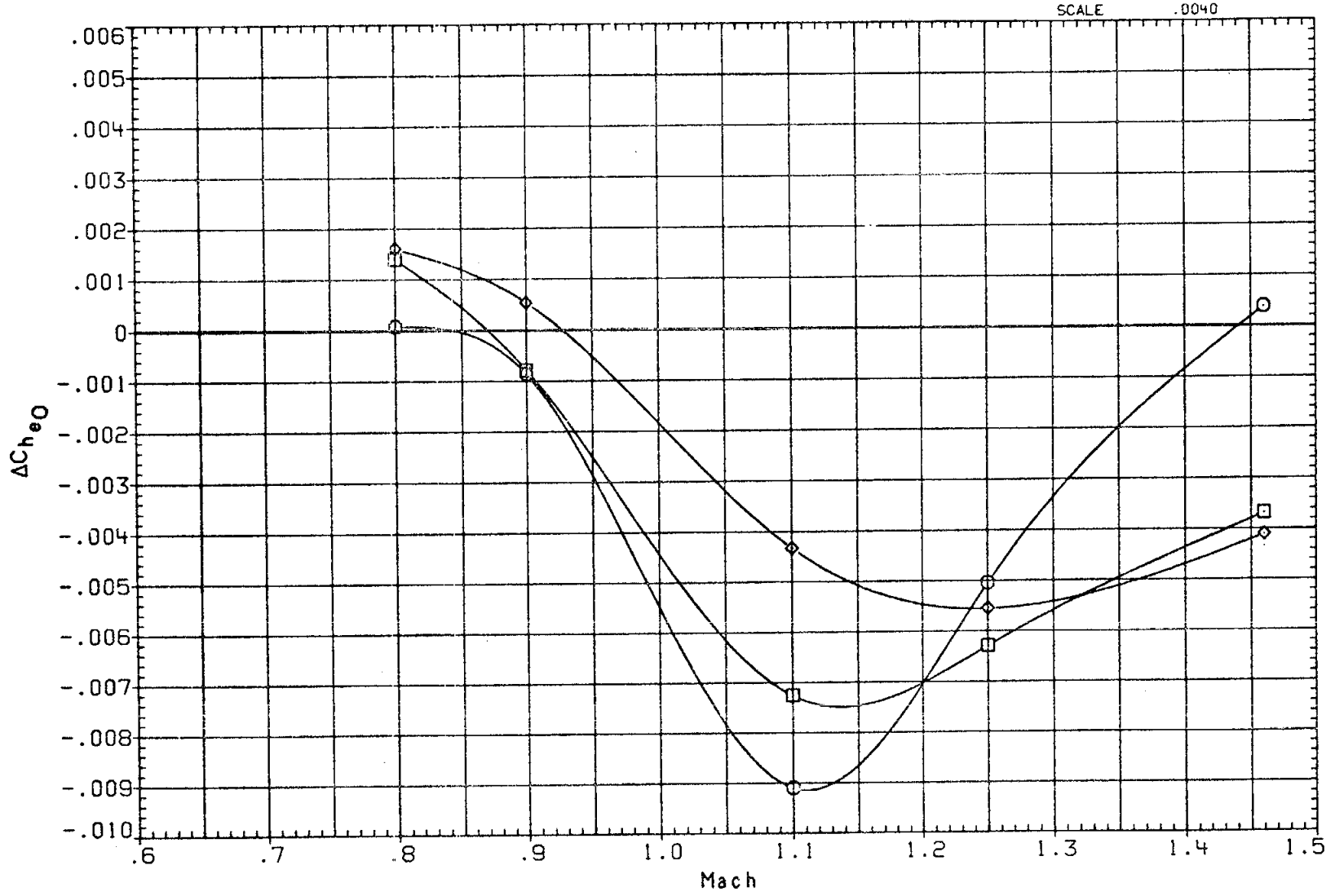

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A) ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

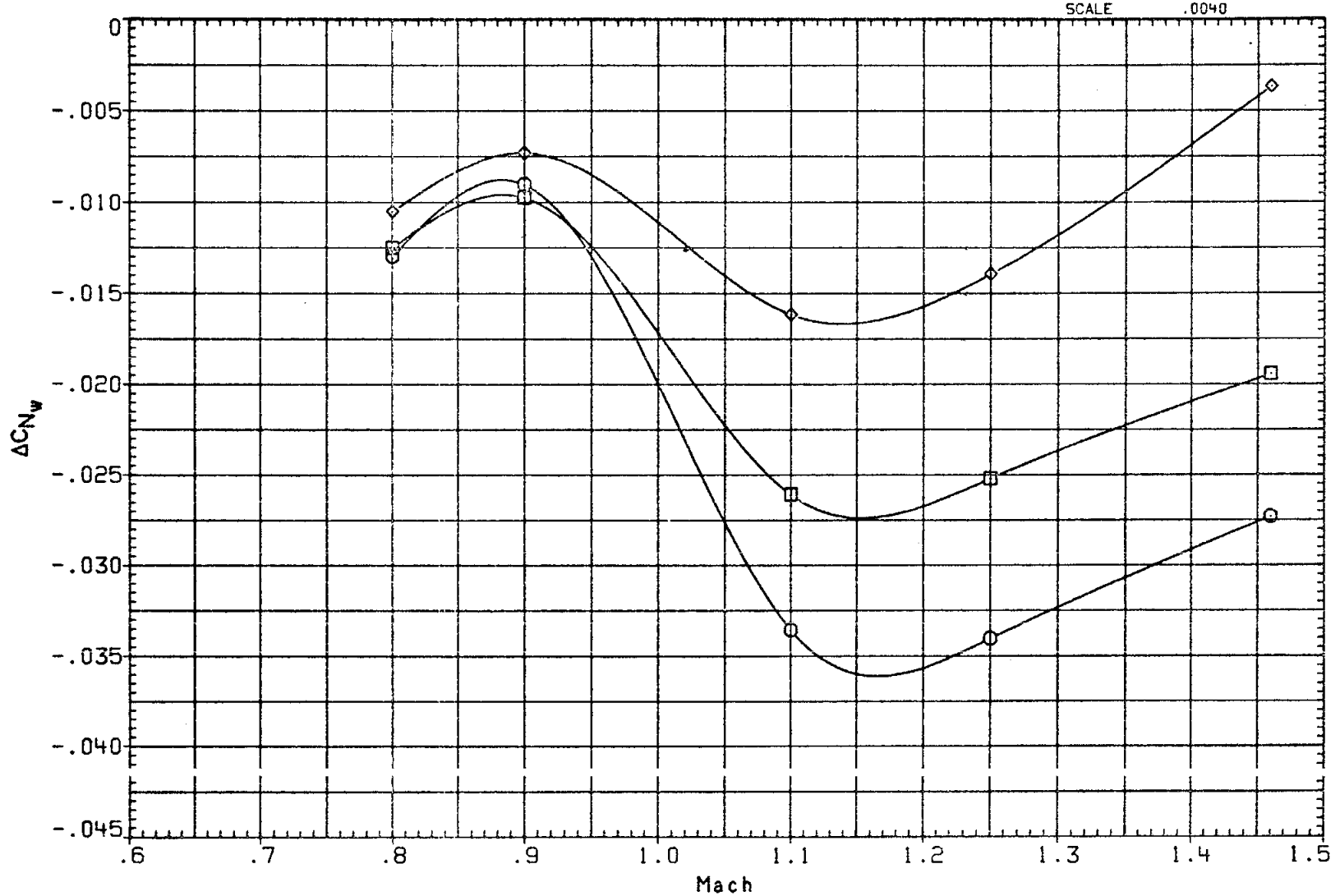

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

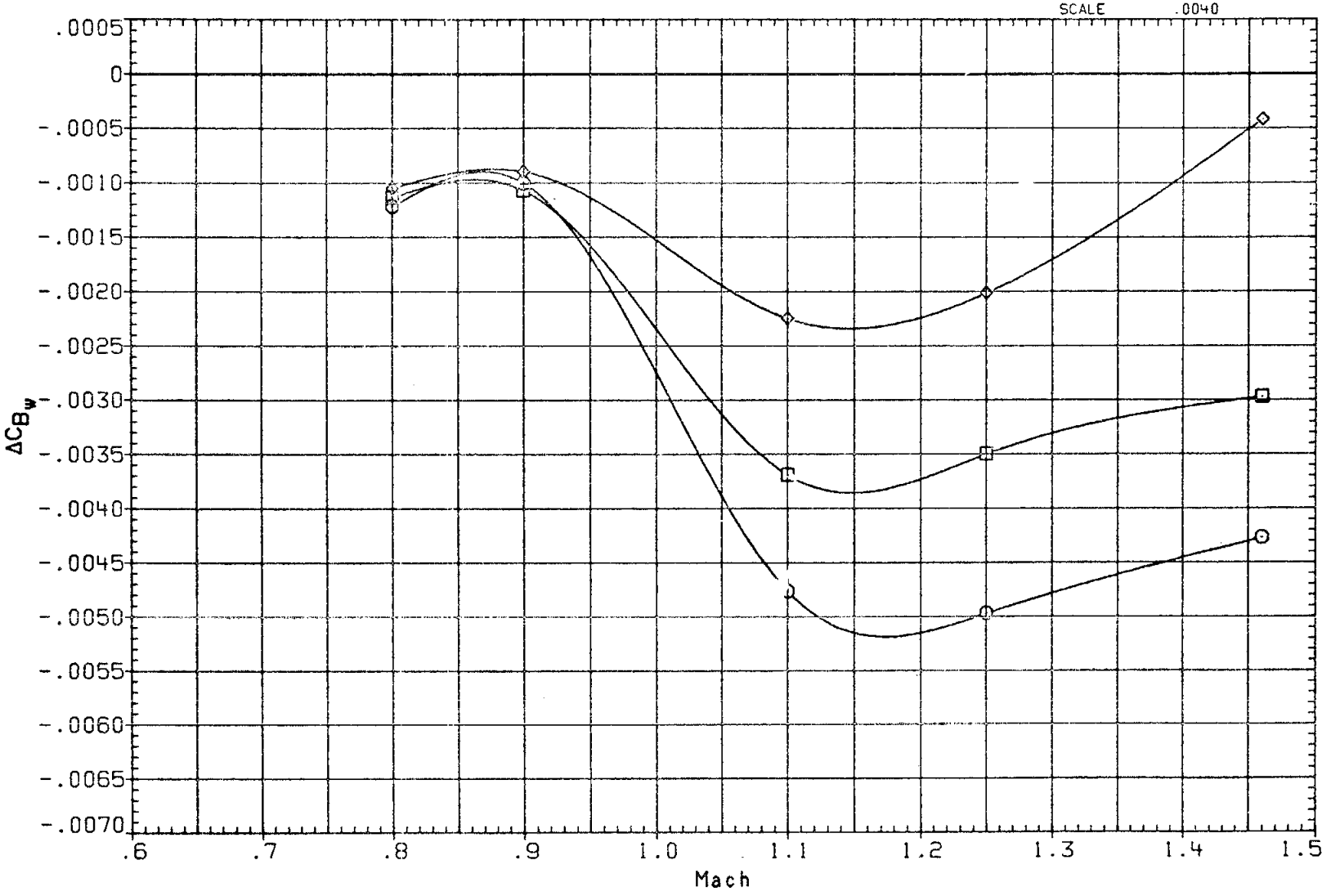

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

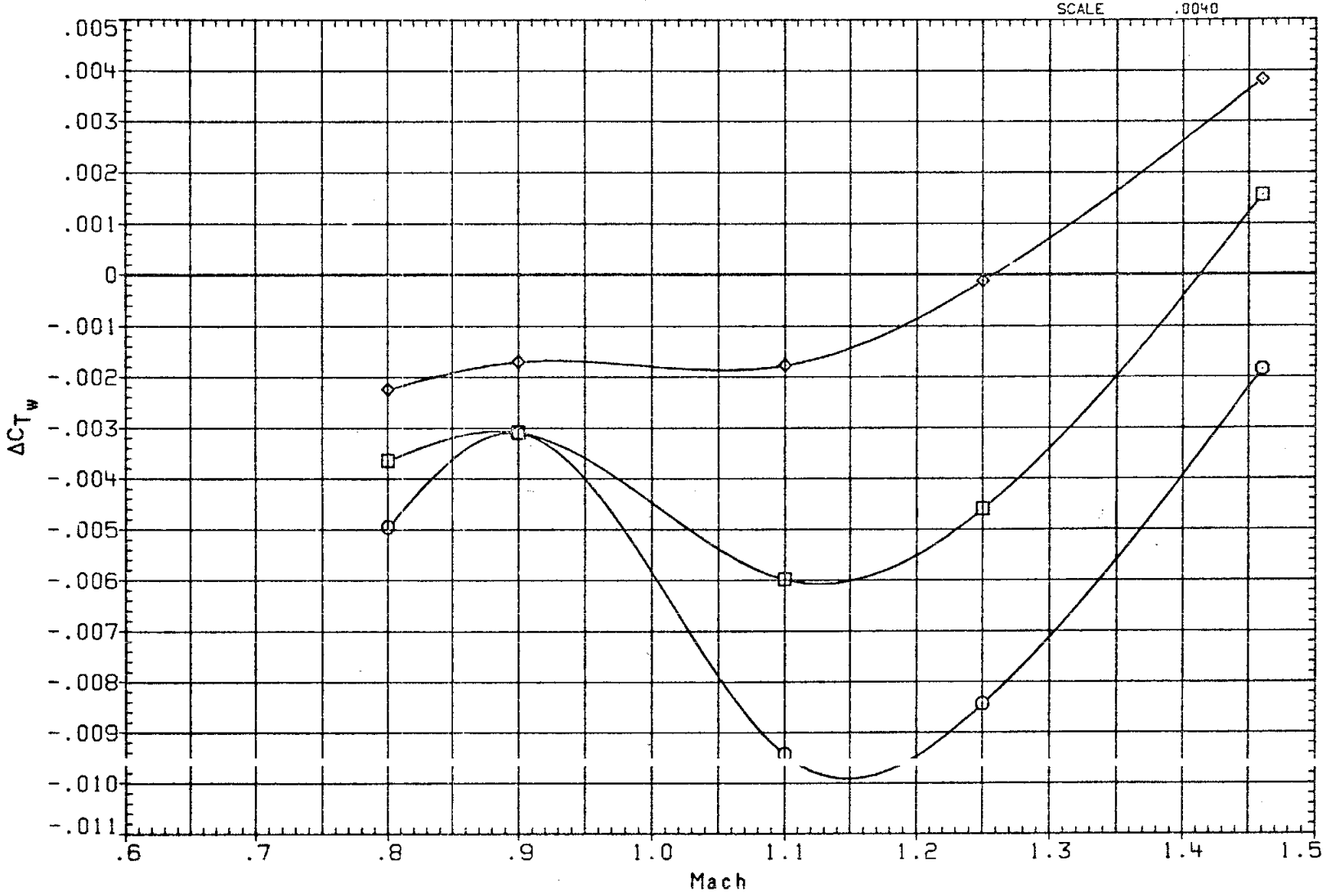

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(A)ALPHA = -4.00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

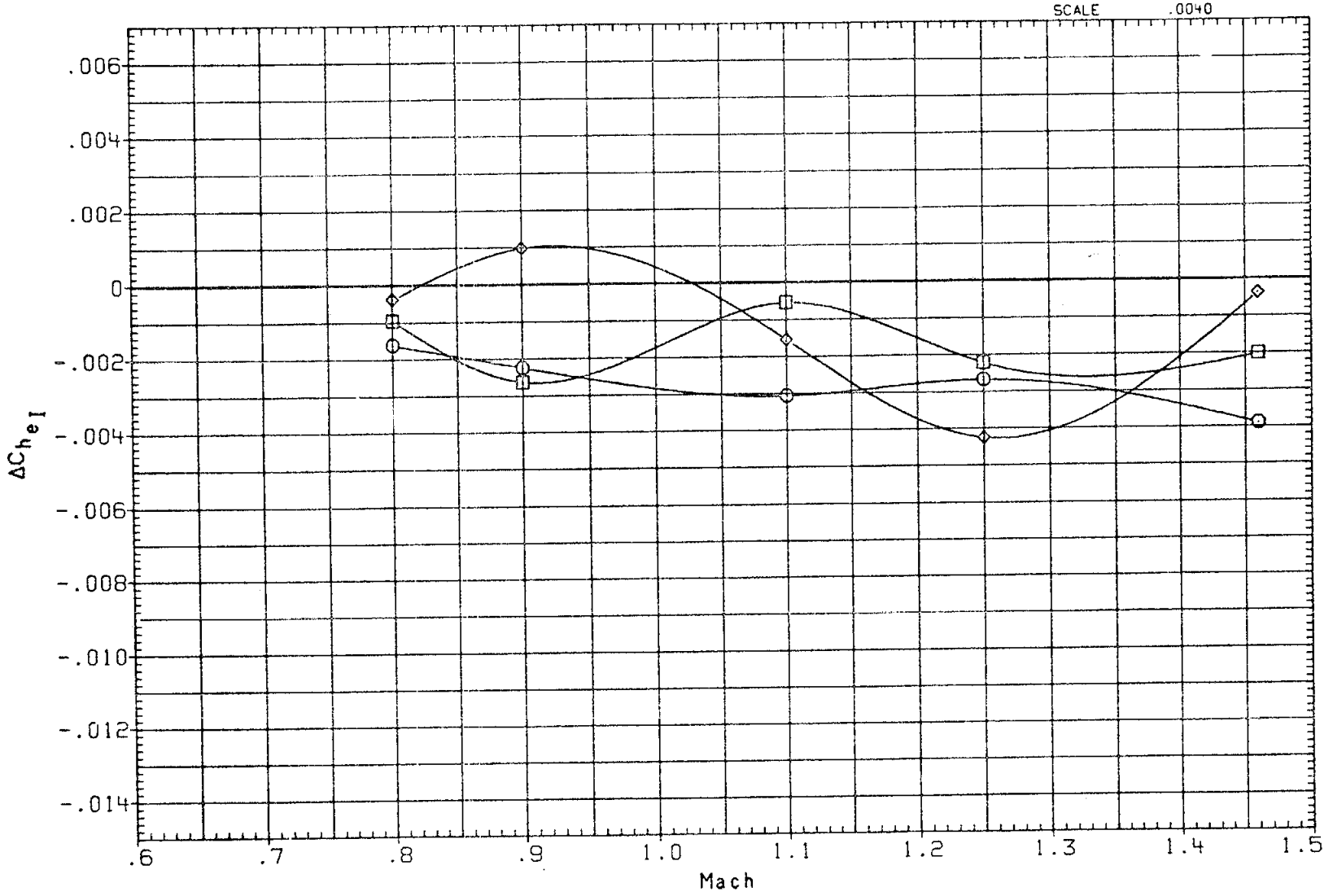

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

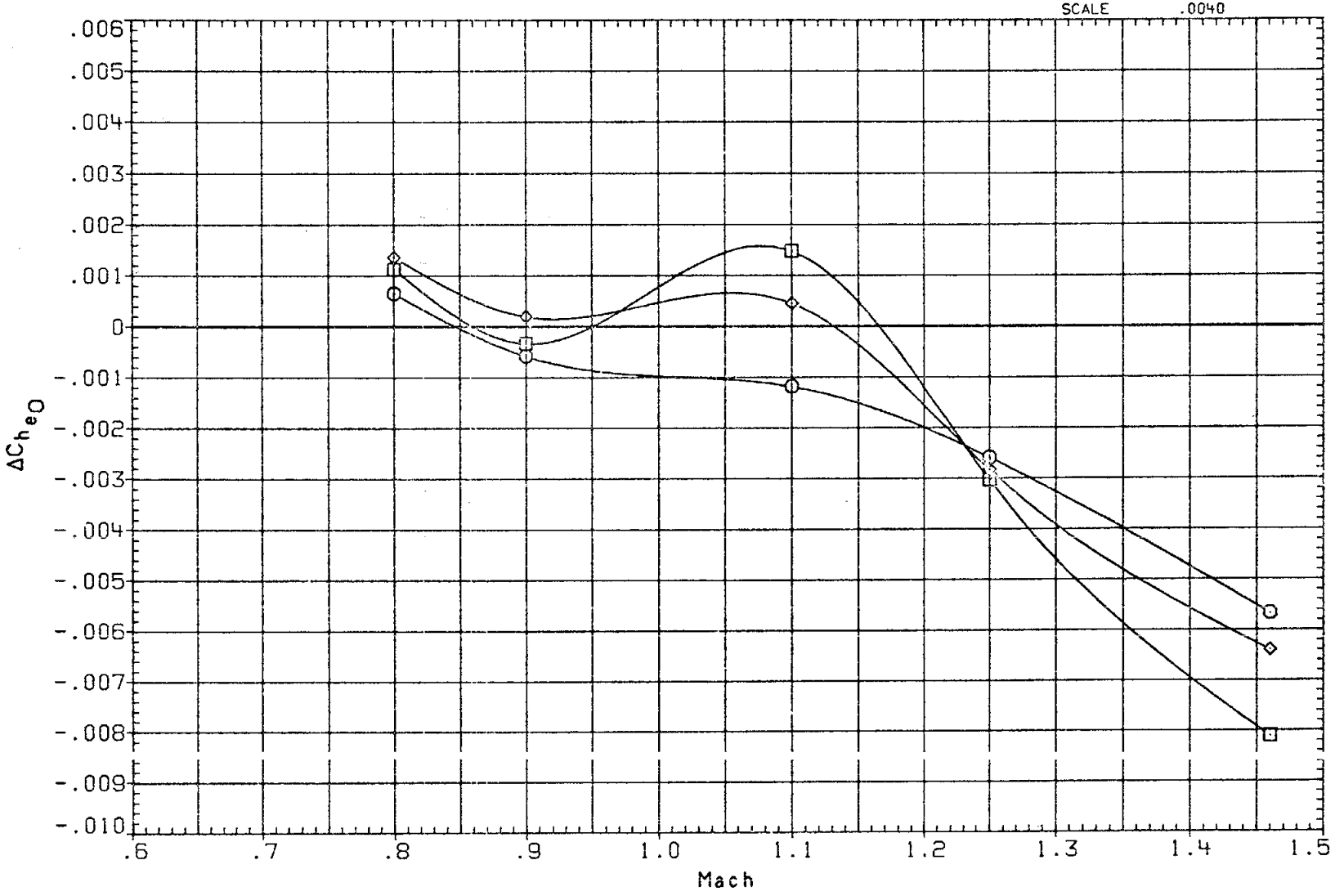

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

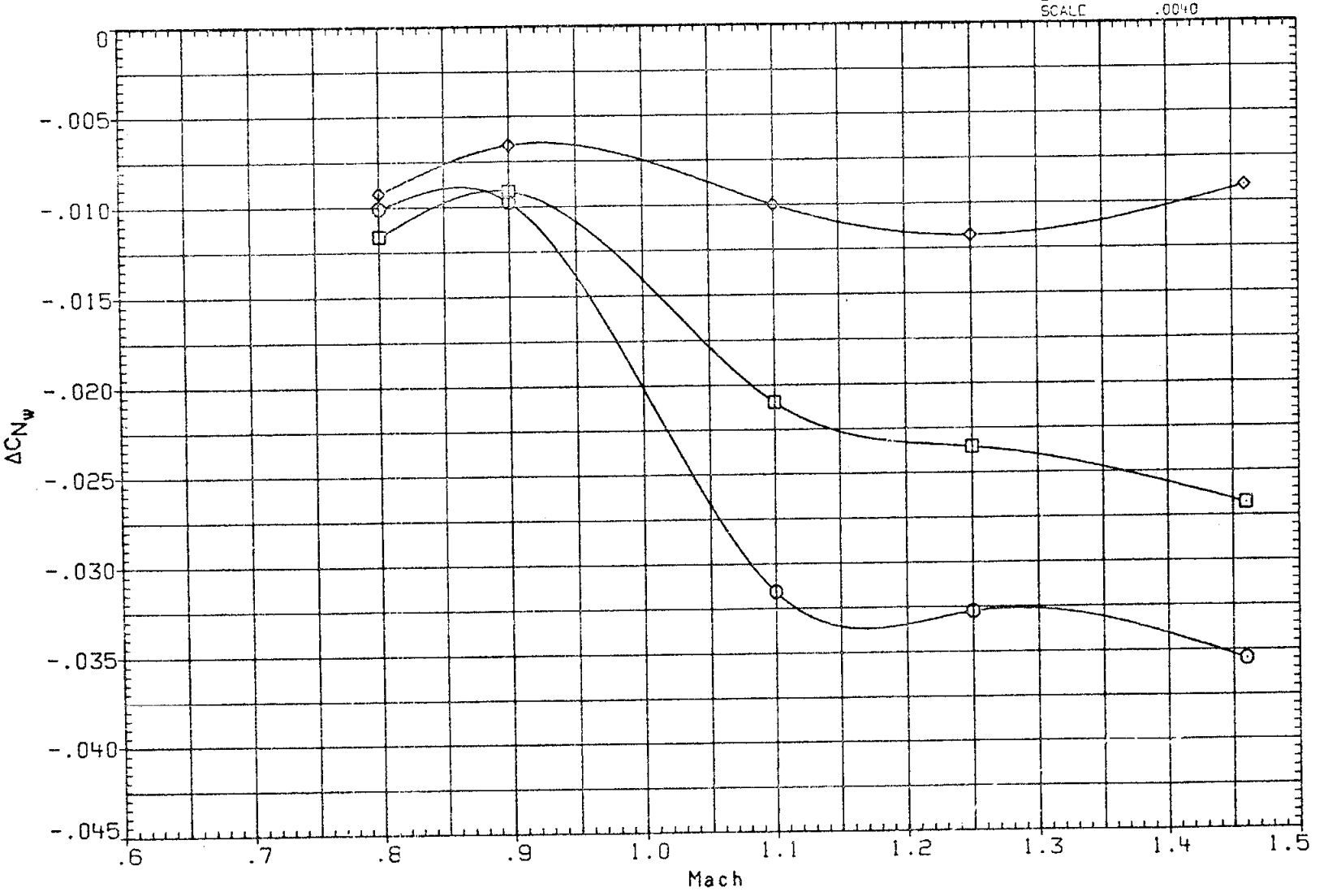

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

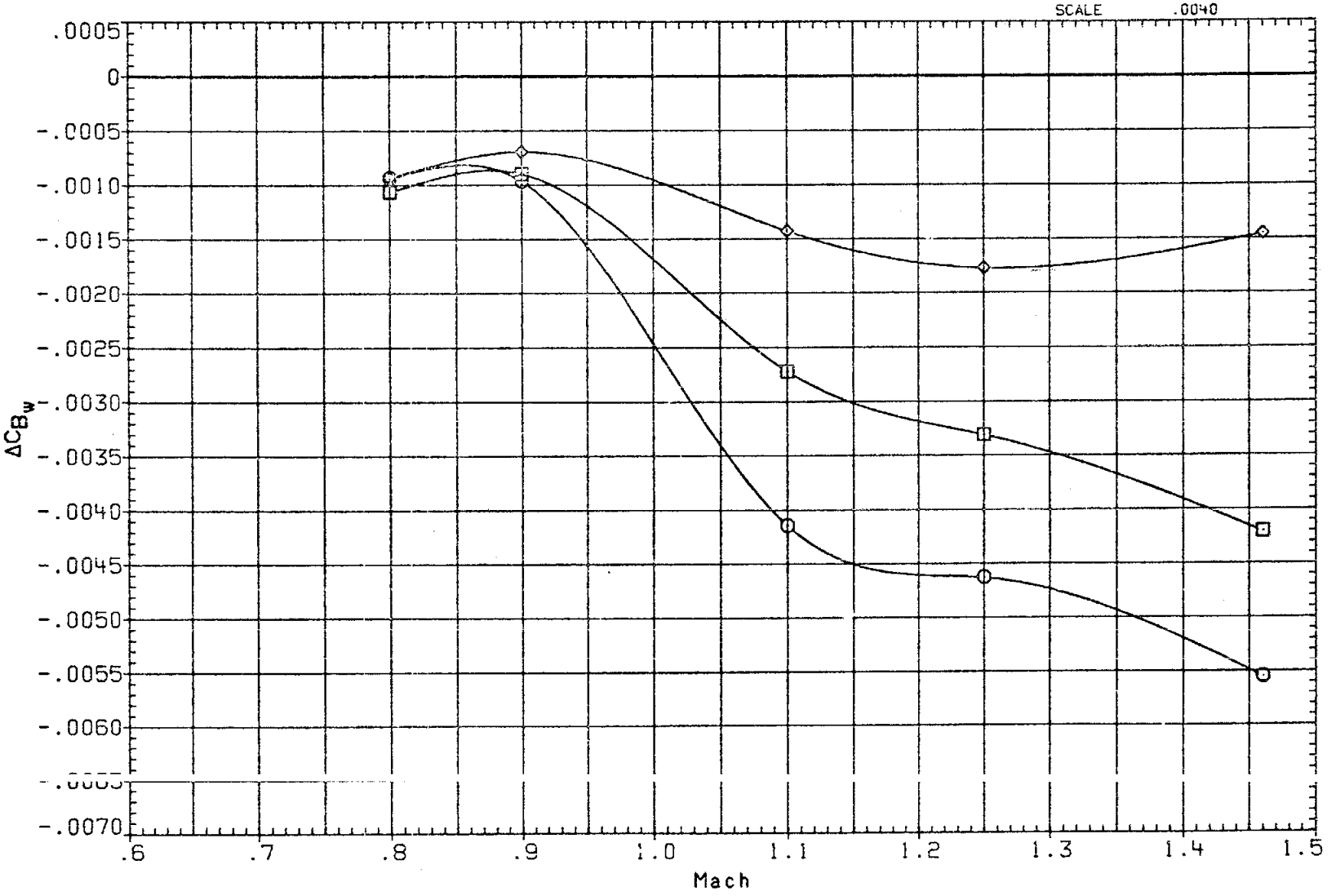

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(B)ALPHA = .00

DATA SET	SYMBOL	CONFIGURATION	BETA	ELV-IB	ELV-OB	PLUME
IA6015	○	OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6016	□	OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON
IA6017	◇	OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON	.000	10.000	5.000	ON

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0040	

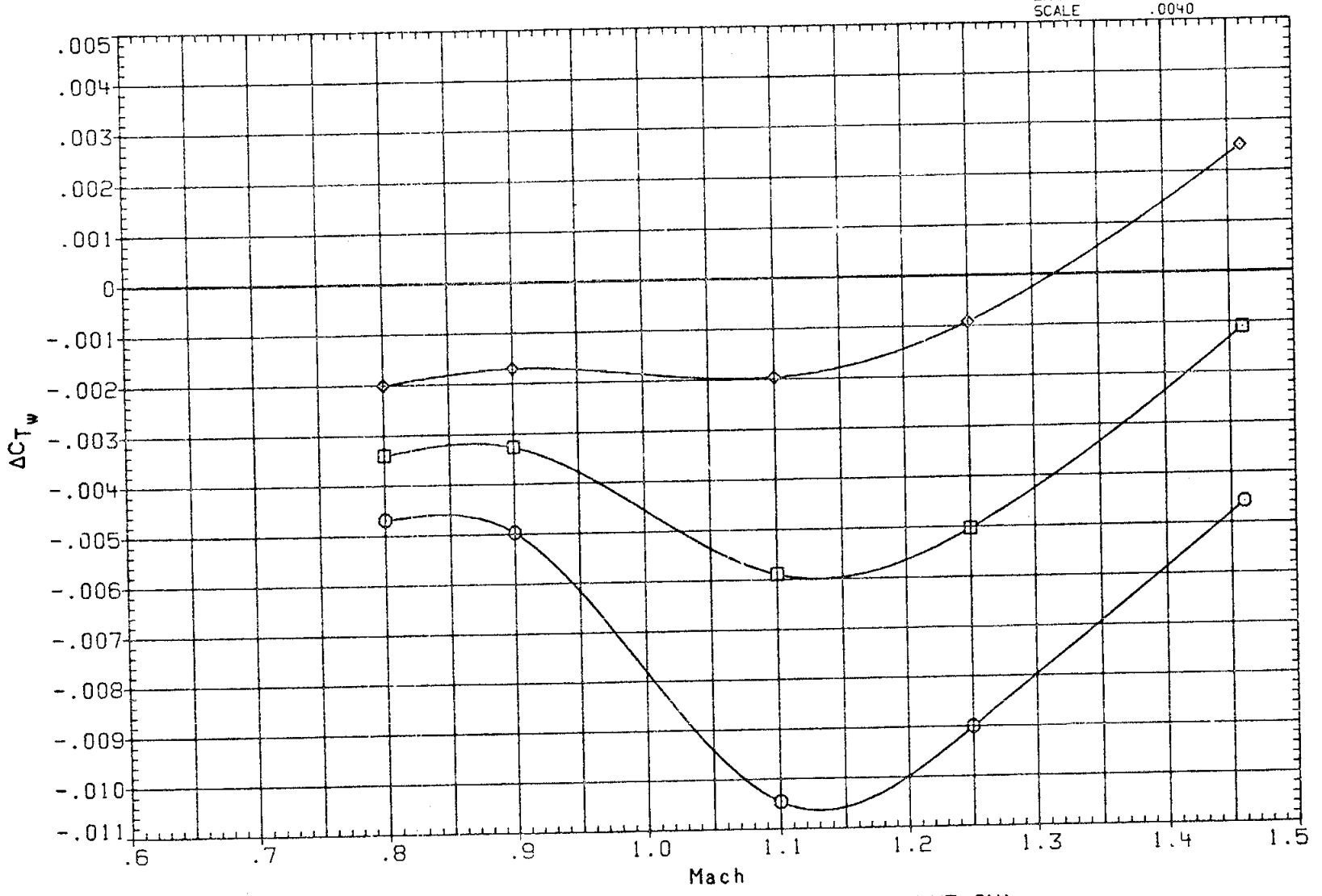

FIG. 20 INCREMENTAL OGIVE FAIRING POSITION EFFECTS (PLUME ON)

(B)ALPHA = .00

APPENDIX

Tabulated Source and Incremental Data

DATASETS	PAGES
Source Data	
RA60$$	1 - 43
SA60$$	44 - 86
TA60$$	87 - 129
UA60$$	130 - 172
Incremental Data	
IA60$$	173 - 194
JA60$$	195 - 216

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (RA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 81/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.601	-10.880	-.01000	.08697	-.62448	.18596	.01062	-.00263	.00082
.601	-8.950	-.01000	.10900	-.50157	.13801	.01233	-.00430	.00106
.601	-6.860	-.01000	.11740	-.37659	.09020	.01214	-.00512	.00105
.601	-4.760	-.01000	.12129	-.26313	.04774	.01175	-.00507	.00129
.601	-2.680	.00000	.12455	-.14595	.00226	.01178	-.00569	.00142
.601	-.570	.00000	.11928	-.03617	-.03614	.01060	-.00506	.00122
.601	1.540	.00000	.12540	.07793	-.07533	.01555	-.00835	.00270
.601	3.650	.00000	.11449	.19421	-.11128	.01161	-.00634	.00276
.601	5.780	.00000	.11546	.31632	-.15288	.01031	-.00667	.00320
.601	7.870	.00000	.10382	.43503	-.19495	.01198	-.00815	.00379
.601	9.900	.00000	.09233	.55120	-.24297	.01135	-.00913	.00339
	GRADIENT	.00095	-.00061	.05411	-.01880	.00017	-.00025	.00020

RUN NO. 1/ 0 RN/L = 5.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.801	-11.230	-.02000	.09970	-.70380	.21178	.01912	-.00917	.00188
.801	-9.320	-.02000	.11690	-.56813	.15883	.01915	-.00996	.00238
.801	-7.160	-.02000	.11818	-.42692	.10523	.01751	-.00892	.00244
.801	-5.020	-.01000	.12145	-.29753	.05471	.01795	-.00959	.00266
.801	-2.840	-.01000	.12465	-.16462	.00188	.01761	-.00972	.00227
.801	-.700	-.01000	.11867	-.04190	-.04329	.01435	-.00800	.00189
.801	1.520	-.01000	.12452	.08810	-.09119	.01310	-.00784	.00206
.801	3.710	.00000	.11902	.21741	-.13176	.01355	-.00887	.00269
.801	5.910	.00000	.11370	.35257	-.17543	.01460	-.01067	.00263
.801	8.060	.00000	.10457	.47451	-.21554	.01058	-.00812	.00194
.801	9.980	.00000	.10250	.56137	-.23374	.00733	-.00592	.00235
	GRADIENT	.00137	-.00050	.05835	-.02052	-.00061	.00012	.00007

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (RA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 2/ 0 RN/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.901	-11.630	-.03000	.13162	-.81491	.26746	.01251	-.00229	-.00146
.901	-9.600	-.03000	.14024	-.66634	.21054	.01072	-.00111	-.00186
.901	-7.380	-.02000	.13742	-.50155	.14739	.01180	-.00352	.00037
.901	-5.140	-.02000	.14292	-.34567	.08680	.01134	-.00464	.00076
.901	-2.940	-.01000	.14406	-.19905	.02707	.01238	-.00588	.00111
.901	-.770	-.01000	.14184	-.06223	-.03139	.01125	-.00476	-.00012
.901	1.430	-.01000	.13817	.06623	-.08092	.01243	-.00600	.00097
.901	3.610	-.01000	.13879	.19520	-.12452	.01090	-.00567	.00115
.901	5.820	.00000	.13491	.32929	-.16531	.00882	-.00566	.00190
.901	8.040	.00000	.12692	.47177	-.21831	.00884	-.00597	.00118
.901	10.140	.00000	.12159	.58687	-.25414	.00494	-.00492	.00173
	GRADIENT	.00000	-.00089	.06001	-.02308	-.00015	-.00003	.00006

RUN NO. 82/ 0 RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.950	-11.770	-.03000	.14251	-.85177	.29188	.01293	-.00308	-.00030
.950	-9.770	-.02000	.17887	-.69483	.22456	.01303	-.00456	.00029
.950	-7.500	-.02000	.16476	-.52070	.15877	.01051	-.00286	-.00040
.950	-5.270	-.02000	.16969	-.36922	.10112	.00931	-.00232	-.00034
.950	-3.050	-.02000	.17133	-.21976	.04446	.01033	-.00346	-.00001
.950	-.810	-.01000	.17168	-.08031	-.00734	.01030	-.00435	.00030
.950	1.370	-.01000	.16571	.05562	-.06678	.00966	-.00406	.00101
.950	3.570	-.01000	.15981	.18701	-.11454	.00678	-.00309	.00087
.950	5.780	-.01000	.15063	.32824	-.17022	.00934	-.00540	.00096
.950	8.010	.00000	.14840	.47177	-.21839	.01260	-.00890	.00138
.950	10.170	.00000	.13837	.60136	-.26080	.00827	-.00725	.00141
	GRADIENT	.00137	-.00184	.06154	-.02434	-.00051	.00006	.00015

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (RA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 83/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.050	-12.030	.00000	.18645	-.86639	.27915	-.00239	.00408	-.00084
1.050	-9.940	.00000	.21774	-.69997	.21446	-.00081	.00216	-.00048
1.050	-7.620	.00000	.22133	-.50566	.14113	.00024	.00163	-.00013
1.050	-5.320	.00000	.22135	-.33579	.08150	-.00005	.00183	-.00002
1.050	-3.070	.00000	.22693	-.18414	.02928	-.00096	.00242	-.00006
1.050	.780	.00000	.22499	-.04018	-.01672	-.00110	.00198	-.00022
1.050	1.430	.00000	.21961	.09125	-.06576	-.00270	.00261	-.00084
1.050	3.650	.00000	.21724	.22129	-.11311	-.00684	.00417	-.00148
1.050	5.910	.00000	.21425	.36417	-.15882	-.00583	.00290	-.00190
1.050	8.140	.00000	.20236	.50334	-.21100	-.00250	-.00002	-.00125
1.050	10.310	.01000	.18818	.63080	-.25550	-.00546	.00168	-.00056
	GRADIENT	.00000	-.00154	.06025	-.02128	-.00086	.00026	-.00022

RUN NO. 3/ 0 RN/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.100	-12.250	-.02000	.21031	-.99339	.35547	.00241	.00237	.00010
1.100	-10.110	-.01000	.23145	-.80197	.28098	.00399	.00065	.00004
1.100	-7.800	-.01000	.23825	-.60406	.20621	.00494	-.00037	.00073
1.100	-5.480	-.01000	.24185	-.41185	.13257	.00451	.00022	.00085
1.100	-3.170	-.01000	.24038	-.23090	.06046	.00371	.00025	.00086
1.100	-.910	.00000	.24534	-.06826	-.00016	.00229	.00022	.00077
1.100	1.370	.00000	.24187	.08429	-.06270	.00105	.00039	.00065
1.100	3.580	.00000	.24044	.22341	-.11468	-.00020	.00126	-.00023
1.100	5.830	.00000	.23398	.37521	-.16929	-.00195	.00095	-.00040
1.100	8.110	.00000	.22791	.52435	-.23065	-.00268	.00070	-.00023
1.100	10.260	.01000	.22151	.65969	-.27585	-.00488	.00020	.00088
	GRADIENT	.00133	-.00014	.06727	-.02610	-.00058	.00014	-.00015

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (RA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 84/ 0 RN/L = 6.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.153	-12.360	-.02000	.23492	.00000	.37236	-.00149	.00783	-.00037
1.153	-10.180	-.03000	.24176	-.82269	.29246	.00073	.00646	-.00038
1.153	-7.840	-.03000	.24909	-.59775	.20064	.00365	.00379	.00058
1.153	-5.520	-.03000	.26043	-.40528	.12549	.00675	.00223	.00184
1.153	-3.250	-.03000	.25645	-.23029	.05559	.00383	.00343	.00182
1.153	-.930	-.02000	.26418	-.06372	-.00926	.00166	.00406	.00135
1.153	1.330	-.02000	.26203	.07922	-.06166	-.00020	.00513	.00100
1.153	3.560	-.01000	.25902	.21724	-.11476	-.00266	.00595	.00049
1.153	5.850	-.01000	.25512	.37057	-.17136	-.00257	.00444	.00018
1.153	8.060	-.01000	.25173	.52107	-.23741	-.00208	.00361	.00016
1.153	10.280	-.01000	.23996	.66585	-.28733	-.00314	.00451	-.00004
	GRADIENT	.00265	.00025	.06549	-.02484	-.00094	.00038	-.00019

RUN NO. 4/ 0 RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.251	-12.250	-.02000	.26072	-.95687	.34749	.00481	.00190	.00060
1.251	-10.170	-.02000	.26492	-.75426	.26089	.00424	.00148	.00060
1.251	-7.830	-.02000	.27291	-.55823	.18561	.00579	-.00011	.00110
1.251	-5.510	-.02000	.28166	-.37776	.11889	.00650	-.00026	.00152
1.251	-3.220	-.01000	.28571	-.21505	.05925	.00641	-.00150	.00179
1.251	-.940	-.01000	.28982	-.06171	.00275	.00503	-.00129	.00147
1.251	1.360	-.01000	.29386	.08251	-.04557	.00487	-.00202	.00151
1.251	3.580	.00000	.29019	.20935	-.09642	.00390	-.00206	.00154
1.251	5.830	.00000	.28491	.35125	-.15065	.00096	-.00056	.00134
1.251	8.100	.00000	.27734	.49589	-.21173	.00092	-.00171	.00113
1.251	10.230	.01000	.26690	.62742	-.25714	.00150	-.00394	.00172
	GRADIENT	.00131	.00078	.06246	-.02270	-.00034	-.00011	-.00003

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (RA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 34/ O RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.460	-12.360	.00000	.26427	-.98100	.36360	.00323	-.00149	.00104
1.460	-10.240	.00000	.27213	-.79312	.28583	.00150	-.00021	.00101
1.460	-7.900	.00000	.27416	-.59760	.20857	.00009	-.00012	.00136
1.460	-5.570	.00000	.27688	-.41909	.14068	.00270	-.00120	.00161
1.460	-3.240	.00000	.27736	-.24881	.07581	.00492	-.00321	.00217
1.460	-.960	.00000	.27774	-.09211	.01731	.00424	-.00329	.00214
1.460	1.350	.00000	.28147	.05739	-.03615	.00417	-.00278	.00223
1.460	3.600	.00000	.27876	.19047	-.08235	.00405	-.00367	.00190
1.460	5.850	.00000	.27644	.32178	-.12970	.00338	-.00294	.00156
1.460	8.120	.00000	.26901	.46258	-.18169	.00231	-.00196	.00171
1.460	10.290	.00000	.26263	.59644	-.22910	.00403	-.00332	.00218
	GRADIENT	.00000	.00035	.06428	-.02313	-.00012	-.00004	-.00003

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF (RA6002) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 8/ O RN/L = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.801	-11.310	-.01000	.10042	-.70597	.21173	.01475	-.00729	.00130
.801	-9.340	-.01000	.11354	-.56815	.15760	.01732	-.00907	.00188
.801	-7.180	-.02000	.11848	-.42521	.10364	.01847	-.00950	.00254
.801	-4.990	-.01000	.12348	-.29450	.05239	.01815	-.00995	.00264
.801	-2.840	-.01000	.12384	-.16749	.00213	.01765	-.00975	.00234
.801	-.680	-.01000	.12222	-.04016	-.04527	.01717	-.00965	.00232
.801	1.500	-.01000	.11972	.08350	-.08985	.01807	-.01066	.00291
.801	3.680	-.01000	.11999	.21141	-.13075	.01718	-.01104	.00326
.801	5.880	.00000	.11407	.34503	-.17422	.01706	[illegible]	[illegible]
.801	8.030	.00000	.10533	.47342	-.21950	.01650	-.01198	.00193
.801	10.090	.00000	.10379	.56633	-.23863	.01190	-.00885	.00375
	GRADIENT	.00000	-.00051	.05825	-.02113	-.00007	-.00014	.00008

MSFC TWT 692.OTS + 10 DEG.RAMP(POS.1)- PLUME OFF (RA6002) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 7/ 0 RN/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.900	-11.600	-.02000	.12127	-.80428	.25977	.01015	-.00271	-.00115
.900	-9.610	-.02000	.14305	-.66587	.21073	.00983	-.00241	-.00168
.900	-7.350	-.01000	.14116	-.49780	.14497	.01047	-.00440	.00075
.900	-5.150	-.01000	.14027	-.34252	.08480	.01112	-.00499	.00116
.900	-2.960	-.01000	.14226	-.19665	.02498	.01258	-.00633	.00155
.900	-.760	-.01000	.13731	-.05760	-.03579	.01204	-.00599	.00062
.900	1.460	-.01000	.13484	.07040	-.08396	.01296	-.00681	.00163
.900	3.640	-.01000	.13571	.20053	-.12799	.01174	-.00663	.00154
.900	5.870	-.01000	.13586	.33361	-.16803	.01160	-.00702	.00235
.900	8.040	.00000	.12767	.47337	-.22129	.01259	-.00849	.00220
.900	10.140	.00000	.10716	.58867	-.25476	.00861	-.00719	.00272
	GRADIENT	-.00000	-.00101	.05992	-.02303	-.00007	-.00008	.00004

RUN NO. 6/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.101	-12.210	-.01000	.20910	-.99999	.36564	-.00354	.00536	-.00104
1.101	-10.110	-.01000	.22450	-.81925	.29463	-.00061	.00316	-.00088
1.101	-7.790	-.01000	.23552	-.61751	.21610	-.00021	.00272	-.00031
1.101	-5.460	-.01000	.23354	-.42605	.14140	-.00019	.00239	-.00004
1.101	-3.180	-.01000	.23761	-.24951	.07219	.00040	.00218	.00032
1.101	-.900	.00000	.23662	-.07952	.00335	.00107	.00107	.00053
1.101	1.350	.00000	.23114	.06882	-.05541	.00228	.00008	.00076
1.101	3.590	.00000	.23188	.21250	-.11105	.00130	.00062	.00001
1.101	5.860	.00000	.23107	.36450	-.16520	.00078	.00068	.00005
1.101	8.060	.00000	.22228	.51153	-.22339	.00027	.00089	.00009
1.101	10.230	.00000	.22246	.64936	-.27231	-.00073	.00092	.00090
	GRADIENT	.00133	-.00101	.06802	-.02698	.00017	-.00025	-.00003

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF (RA6002) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 5/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.251	-12.320	-.01000	.25685	-.98058	.36369	.00022	.00335	-.00071
1.251	-10.180	-.02000	.26641	-.77768	.27728	.00090	.00324	-.00027
1.251	-7.840	-.02000	.27157	-.57759	.19914	.00114	.00299	.00020
1.251	-5.540	-.02000	.28051	-.39647	.13043	.00181	.00284	.00039
1.251	-3.250	-.01000	.28313	-.22995	.06765	.00254	.00138	.00074
1.251	-.950	-.01000	.28751	-.07599	.01050	.00364	.00003	.00104
1.251	1.320	-.01000	.29013	.07228	-.04319	.00289	.00049	.00119
1.251	3.560	-.01000	.28527	.20379	-.09799	.00457	-.00160	.00146
1.251	5.820	-.01000	.28090	.34711	-.15204	.00367	-.00075	.00167
1.251	8.020	.00000	.27432	.48823	-.21144	.00350	-.00133	.00106
1.251	10.200	-.01000	.26531	.61939	-.25582	.00491	-.00196	.00102
	GRADIENT	-.00000	.00040	.06387	-.02426	.00023	-.00037	.00010

RUN NO. 35/ 0 RN/L = 6.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.461	-12.360	.00000	.26474	-.99999	.37856	-.00185	.00289	-.00004
1.461	-10.250	.00000	.27104	-.81587	.30090	-.00219	.00299	.00015
1.461	-7.910	.00000	.27278	-.61854	.22182	-.00274	.00238	.00047
1.461	-5.590	.00000	.27542	-.43888	.15293	-.00065	.00141	.00060
1.461	-3.260	.00000	.27633	-.26991	.08868	.00108	-.00039	.00081
1.461	-.970	.00000	.27527	-.11538	.03193	-.00005	.00006	.00076
1.461	1.310	.00000	.27541	.03294	-.02159	-.00031	.00086	.00111
1.461	3.580	.00000	.27142	.16857	-.07058	.00009	-.00074	.00111
1.461	5.830	.00000	.26972	.30150	-.11898	.00067	-.00056	.00088
1.461	8.100	.00000	.26399	.44199	-.17103	-.00073	-.00012	.00099
1.461	10.270	.00000	.25981	.57649	-.22037	.00192	-.00120	.00103
	GRADIENT	.00000	-.00064	.06420	-.02330	-.00014	-.00001	.00005

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF (RA6003) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 9/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.801	-11.310	-.02000	.09918	-.70550	.21139	.01593	-.00732	.00142
.801	-9.330	-.02000	.10601	-.56682	.15735	.01737	-.00852	.00194
.801	-7.170	-.01000	.11740	-.42680	.10403	.01648	-.00830	.00232
.801	-5.000	-.01000	.12054	-.29646	.05321	.01722	-.00883	.00228
.801	-2.860	-.01000	.12686	-.16592	.00113	.01836	-.01013	.00229
.801	-.680	-.01000	.12525	-.03621	-.04724	.01613	-.00886	.00203
.801	1.520	-.01000	.11939	.08651	-.09104	.01734	-.01010	.00287
.801	3.680	-.01000	.11447	.21634	-.13196	.01893	-.01160	.00364
.801	5.880	-.01000	.11568	.34727	-.17440	.01911	-.01256	.00348
.801	8.030	.00000	.10711	.46995	-.21542	.01364	-.00962	.00241
.801	10.090	.00000	.10789	.56949	-.23996	.01303	-.00920	.00396
	GRADIENT	.00000	-.00091	.05878	-.02127	.00011	-.00025	.00015

RUN NO. 10/ 0 RN/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.901	-11.610	-.02000	.12495	-.80644	.26157	.01008	-.00194	-.00112
.901	-9.600	-.02000	.13978	-.66181	.20794	.01106	-.00239	-.00146
.901	-7.370	-.02000	.13473	-.49631	.14440	.01243	-.00463	.00103
.901	-5.140	-.02000	.14058	-.34401	.08521	.01271	-.00585	.00117
.901	-2.940	-.02000	.14193	-.19906	.02590	.01516	-.00757	.00188
.901	-.750	-.02000	.14149	-.05792	-.03651	.01496	-.00734	.00110
.901	1.460	-.01000	.14108	.07058	-.08426	.01604	-.00862	.00197
.901	3.630	-.01000	.14074	.19877	-.12844	.01465	-.00824	.00189
.901	5.870	-.01000	.13741	.33289	-.16834	.01483	-.00860	.00278
.901	8.040	-.01000	.12930	.47451	-.22216	.01449	-.00948	.00257
.901	10.140	.00000	.11500	.58970	-.25563	.01182	-.00841	.00314
	GRADIENT	.00183	-.00018	.06031	-.02330	-.00002	-.00015	.00004

MSFC TWT 692.OTS + 10 DEG.RAMP(POS.2)- PLUME OFF (RA6003) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 11/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.100	-12.230	-.01000	.21425	-.99999	.36333	-.00359	.00512	-.00067
1.100	-10.110	-.01000	.22717	-.81158	.28888	-.00144	.00361	-.00043
1.100	-7.800	-.01000	.23535	-.60982	.20904	-.00098	.00364	-.00013
1.100	-5.440	-.01000	.23415	-.41629	.13503	.00067	.00196	.00038
1.100	-3.170	-.01000	.23690	-.23530	.06192	.00078	.00174	.00066
1.100	-.890	.00000	.24036	-.06948	-.00160	.00047	.00104	.00070
1.100	1.370	.00000	.23594	.07967	-.05978	.00100	.00024	.00089
1.100	3.600	.00000	.23359	.22241	-.11699	.00050	.00098	.00004
1.100	5.890	.00000	.23299	.37029	-.16643	-.00133	.00264	-.00019
1.100	8.110	.00000	.22881	.51767	-.22636	-.00042	.00170	.00006
1.100	10.260	.00000	.21298	.65716	-.27621	-.00306	.00327	.00045
	GRADIENT	.00133	-.00063	.06746	-.02636	-.00001	-.00014	-.00007

RUN NO. 12/ 0 RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.250	-12.280	-.01000	.26236	-.97576	.36014	-.00180	.00442	-.00044
1.250	-10.150	-.01000	.26613	-.77169	.27360	.00129	.00222	.00007
1.250	-7.830	-.01000	.27242	-.57021	.19389	.00275	.00117	.00047
1.250	-5.490	-.02000	.27895	-.38600	.12457	.00436	.00102	.00078
1.250	-3.110	-.01000	.28328	-.21372	.05932	.00495	-.00073	.00135
1.250	-.920	-.01000	.28669	-.06539	.00477	.00511	-.00177	.00140
1.250	1.380	.00000	.29112	.08254	-.04751	.00421	-.00152	.00142
1.250	3.590	.00000	.28584	.21114	-.10153	.00508	-.00261	.00159
1.250	5.880	.00000	.28099	.35511	-.15504	.00413	-.00146	.00144
1.250	8.090	.00000	.27272	.49651	-.21548	.00410	-.00180	.00102
1.250	10.260	.00000	.26388	.62853	-.25894	.00481	-.00235	.00116
	GRADIENT	.00179	.00054	.06350	-.02387	-.00002	-.00024	.00003

MSFC TWT 692.0TS + 10 DEG.RAMP(POS.2)- PLUME OFF (RA6003) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 36/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.459	-12.390	-.01000	.26398	-.99951	.37767	.00131	.00126	.00007
1.459	-10.240	-.01000	.26954	-.80887	.29801	-.00053	.00257	.00035
1.459	-7.910	.00000	.27373	-.61445	.21995	-.00152	.00200	.00068
1.459	-5.580	.00000	.27474	-.43477	.15154	.00166	-.00011	.00096
1.459	-3.270	.00000	.27556	-.26494	.08656	.00253	-.00110	.00114
1.459	-.970	.00000	.27775	-.10933	.02920	.00213	-.00097	.00101
1.459	1.310	.00000	.27746	.03528	-.02142	.00077	.00003	.00115
1.459	3.570	.00000	.27685	.17114	-.07021	.00068	-.00124	.00102
1.459	5.840	.00000	.27002	.30542	-.12059	.00005	-.00068	.00069
1.459	8.100	.00000	.26634	.44768	-.17424	-.00166	.00067	.00061
1.459	10.280	.00000	.25742	.58175	-.22308	.00117	-.00068	.00072
	GRADIENT	.00000	.00016	.06373	-.02285	-.00030	.00003	-.00001

MSFC TWT 692.0TS + 10 DEG.RAMP(POS.3)- PLUME OFF (RA6004) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 16/ 0 RN/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.800	-11.320	-.01000	.09991	-.70015	.20887	.01288	-.00643	.00112
.800	-9.340	-.01000	.11284	-.56558	.15668	.01486	-.00759	.00130
.800	-7.150	-.01000	.11734	-.41971	.10086	.01453	-.00741	.00156
.800	-4.990	-.01000	.11920	-.29085	.05022	.01290	-.00670	.00128
.800	-2.840	-.01000	.12726	-.16427	.00123	.01444	-.00780	.00154
.800	-.680	-.01000	.12747	-.03750	-.04592	.01617	-.00872	.00217
.800	1.500	-.01000	.12003	.08300	-.08789	.01479	-.00866	.00242
.800	3.670	-.01000	.12062	.21646	-.13124	.01596	-.01033	.00302
.800	5.870	.00000	.11477	.34752	-.17415	.01440	-.01007	.00245
.800	8.020	.00000	.11009	.47404	-.21622	.01393	-.00967	.00249
.800	10.120	.00000	.10807	.57334	-.24031	.01140	-.00836	.00370
	GRADIENT	.00000	-.00021	.05826	-.02087	.00030	-.00037	.00020

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF (RA6004) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 15/ 0 RN/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.900	-11.600	-.02000	.11830	-.79563	.25490	.01173	-.00457	-.00002
.900	-9.600	-.02000	.13753	-.66011	.20699	.01128	-.00324	-.00094
.900	-7.350	-.02000	.14254	-.49286	.14209	.01298	-.00567	.00114
.900	-5.160	-.02000	.14090	-.34159	.08441	.01389	-.00674	.00179
.900	-2.940	-.01000	.13726	-.19528	.02324	.01413	-.00748	.00183
.900	-.760	-.01000	.14010	-.05618	-.03732	.01303	-.00671	.00074
.900	1.440	-.01000	.14184	.07312	-.08562	.01351	-.00763	.00165
.900	3.610	-.01000	.14331	.19998	-.12864	.01121	-.00630	.00146
.900	5.840	-.01000	.13745	.33025	-.16676	.01146	-.00660	.00206
.900	8.030	-.01000	.12906	.47075	-.22013	.01481	-.00980	.00224
.900	10.160	.00000	.09749	.58625	-.25254	.01114	-.00849	.00326
	GRADIENT	-.00000	.00091	.06019	-.02306	-.00038	.00012	-.00001

RUN NO. 14/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.098	-12.220	-.01000	.21141	-.99999	.36272	-.00398	.00533	-.00096
1.098	-10.120	-.01000	.22384	-.80812	.28712	-.00122	.00344	-.00044
1.098	-7.790	-.01000	.23191	-.60293	.20575	-.00002	.00285	-.00005
1.098	-5.480	-.01000	.23395	-.41289	.13279	.00120	.00162	.00033
1.098	-3.210	-.01000	.24358	-.23512	.06183	.00159	.00129	.00076
1.098	-.890	.00000	.23953	-.06349	-.00588	.00234	-.00020	.00096
1.098	1.340	.00000	.24356	.08144	-.06159	.00170	.00011	.00086
1.098	3.580	.00000	.23695	.22209	-.11534	-.00060	.00139	-.00019
1.098	5.840	-.01000	.23696	.36907	-.16662	-.00109	.00275	-.00034
1.098	8.100	.00000	.23045	.52187	-.22983	-.00132	.00217	-.00002
1.098	10.280	.00000	.21038	.65996	-.27829	-.00334	.00280	.00064
	GRADIENT	.00134	-.00070	.06713	-.02599	-.00032	.00002	-.00013

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF (RA6004) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 13/ 0 RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.250	-12.300	-.01000	.25568	-.96912	.35827	-.00131	.00420	-.00054
1.250	-10.170	-.01000	.26985	-.76930	.27234	.00109	.00258	.00018
1.250	-7.830	-.02000	.27341	-.56904	.19543	.00330	.00164	.00087
1.250	-5.510	-.02000	.28016	-.38475	.12467	.00438	.00093	.00102
1.250	-3.220	-.01000	.28498	-.21874	.06165	.00416	-.00018	.00145
1.250	-.920	-.01000	.29061	-.06298	.00418	.00493	-.00156	.00162
1.250	1.380	-.01000	.29305	.08363	-.04727	.00479	-.00155	.00155
1.250	3.590	.00000	.28746	.21091	-.09989	.00511	-.00261	.00177
1.250	5.830	-.01000	.28508	.35210	-.15222	.00349	-.00092	.00142
1.250	8.090	-.01000	.27514	.49597	-.21400	.00444	-.00204	.00138
1.250	10.280	.00000	.26456	.63081	-.25916	.00451	-.00250	.00131
	GRADIENT	.00131	.00045	.06318	-.02359	.00012	-.00032	.00004

RUN NO. 37/ 0 RN/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.462	-12.380	-.01000	.26597	-.99364	.37312	.00045	.00198	.00004
1.462	-10.260	.00000	.27079	-.80164	.29222	-.00038	.00222	.00057
1.462	-7.920	.00000	.27159	-.60517	.21386	-.00190	.00215	.00074
1.462	-5.580	.00000	.27487	-.42570	.14523	.00111	.00029	.00102
1.462	-3.270	.00000	.27755	-.25581	.08021	.00188	-.00092	.00115
1.462	-.960	.00000	.27894	-.09992	.02315	.00145	-.00072	.00117
1.462	1.320	.00000	.27971	.04454	-.02676	.00104	-.00017	.00128
1.462	3.580	.00000	.27819	.17899	-.07398	.00116	-.00141	.00114
1.462	5.830	.00000	.27468	.31316	-.12422	.00121	-.00138	.00073
1.462	8.110	.00000	.26795	.45617	-.17808	.00034	-.00099	.00069
1.462	10.260	.00000	.26177	.58846	-.22604	.00007	-.00065	.00096
	GRADIENT	.00000	.00012	.06347	-.02245	-.00011	-.00004	.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF (RA6005) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 17/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.802	-11.350	-.01000	.10600	-.70819	.21216	.00324	.00110	-.00046
.802	-9.350	-.01000	.11144	-.57360	.16133	.00467	-.00020	-.00019
.802	-7.200	.00000	.12113	-.43945	.11134	.00395	-.00024	-.00008
.802	-5.030	-.01000	.12574	-.30458	.05866	.00731	-.00274	.00030
.802	-2.850	-.01000	.12884	-.17414	.00623	.00685	-.00241	.00063
.802	-.690	-.01000	.12834	-.04655	-.04153	.00678	-.00256	.00070
.802	1.490	-.01000	.12528	.07861	-.08849	.00914	-.00429	.00151
.802	3.640	.00000	.12156	.20354	-.12778	.00724	-.00362	.00156
.802	5.830	.00000	.11529	.33462	-.16956	.00880	-.00506	.00158
.802	7.980	.00000	.10726	.46224	-.21471	.00598	-.00328	.00114
.802	10.080	.00000	.10580	.55876	-.23489	.00399	-.00233	.00235
	GRADIENT	.00138	-.00115	.05812	-.02074	.00016	-.00025	.00017

RUN NO. 18/ 0 RN/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.901	-11.660	-.02000	.12145	-.81517	.26402	.00165	.00394	-.00161
.901	-9.620	-.01000	.14124	-.66832	.20913	.00285	.00265	-.00187
.901	-7.390	-.01000	.13643	-.50165	.14582	.00447	.00082	.00003
.901	-5.170	-.01000	.13462	-.34955	.08771	.00366	.00005	.00031
.901	-2.980	-.01000	.14321	-.20292	.02749	.00574	-.00132	.00034
.901	-.780	-.01000	.14077	-.06282	-.03436	.00532	-.00071	-.00046
.901	1.430	-.01000	.13235	.06552	-.08371	.00805	-.00253	.00060
.901	3.600	-.01000	.14235	.19476	-.12782	.00688	-.00225	.00073
.901	5.810	-.01000	.13659	.32593	-.16688	.00748	-.00254	.00169
.901	8.000	-.01000	.12523	.46478	-.21684	.00609	-.00238	.00098
.901	10.120	.00000	.12152	.58245	-.25418	.00125	-.00095	.00162
	GRADIENT	-.00000	-.00051	.06020	-.02348	.00028	-.00021	.00010

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF (RA6005) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 19/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.099	-12.300	.00000	.20317	.00000	.38359	-.01032	.01027	-.00176
1.099	-10.160	.00000	.21992	-.84622	.31014	-.00892	.00915	-.00172
1.099	-7.840	.00000	.23197	-.64010	.22836	-.00795	.00842	-.00120
1.099	-5.520	.00000	.23326	-.44703	.15197	-.00682	.00767	-.00090
1.099	-3.220	.00000	.23428	-.26306	.07702	-.00586	.00645	-.00060
1.099	.950	.00000	.23462	-.09319	.00875	-.00541	.00603	-.00024
1.099	1.320	-.01000	.22738	.06543	-.06035	-.00348	.00516	.00045
1.099	3.530	-.01000	.22793	.20716	-.11536	-.00336	.00469	.00008
1.099	5.800	-.01000	.21996	.35597	-.16716	-.00353	.00539	-.00025
1.099	8.030	.00000	.22820	.50422	-.22165	-.00415	.00494	-.00052
1.099	10.240	.00000	.21116	.64710	-.27447	-.00821	.00709	-.00010
	GRADIENT	-.00178	-.00117	.06970	-.02870	.00042	-.00027	.00012

RUN NO. 20/ 0 RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.250	-12.330	-.02000	.25724	-.99999	.37987	-.00290	.00680	-.00061
1.250	-10.180	-.01000	.26177	-.79549	.28689	-.00286	.00652	-.00048
1.250	-7.840	-.02000	.26857	-.59045	.20530	-.00182	.00612	-.00001
1.250	-5.530	-.02000	.27475	-.40859	.13632	-.00146	.00615	.00015
1.250	-3.220	-.02000	.27807	-.24140	.07325	.00033	.00392	.00029
1.250	-.940	-.02000	.27996	-.09162	.01729	.00134	.00303	.00087
1.250	1.350	-.02000	.27757	.05776	-.03886	.00307	.00158	.00146
1.250	3.550	-.01000	.27817	.19444	-.09783	.00160	.00185	.00122
1.250	5.800	-.01000	.27423	.33682	-.15109	.00272	.00078	.00146
1.250	8.030	-.01000	.27028	.48040	-.20909	.00007	.00231	.00044
1.250	10.200	.00000	.26323	.61470	-.25544	-.00083	.00237	.00061
	GRADIENT	.00132	-.00009	.06447	-.02519	.00025	-.00034	.00015

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF (RA6005) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 38/ 0 RN/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.460	-12.430	-.01000	.26777	.00000	.39521	.00168	.00177	.00018
1.460	-10.320	-.01000	.26816	-.84216	.31824	.00032	.00259	.00049
1.460	-7.900	.00000	.27007	-.64619	.23886	-.00143	.00268	.00060
1.460	-5.630	-.01000	.27172	-.46266	.16797	.00068	.00171	.00072
1.460	-3.320	.00000	.27115	-.29515	.10378	.00070	.00083	.00059
1.460	-1.000	.00000	.27171	-.14058	.04704	.00055	.00083	.00057
1.460	1.260	.00000	.27056	.00307	-.00533	.00188	.00016	.00094
1.460	3.540	.00000	.26649	.14257	-.05814	-.00111	.00124	.00064
1.460	5.780	.00000	.26442	.27969	-.11056	-.00076	.00051	.00077
1.460	8.040	.00000	.26108	.42362	-.16325	.00001	.00016	.00107
1.460	10.230	.00000	.25625	.55614	-.21062	.00189	-.00042	.00108
	GRADIENT	.00000	-.00066	.06379	-.02356	-.00018	.00002	.00002

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF (RA6006) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 24/ 0 RN/L = 6.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.800	-11.280	-.01000	.10293	-.70783	.21208	.00646	-.00142	.00005
.800	-9.370	-.01000	.11112	-.57846	.16183	.00677	-.00120	.00011
.800	-7.190	-.01000	.11455	-.43537	.10879	.00467	-.00039	.00010
.800	-5.030	-.01000	.12738	-.30176	.05579	.00637	-.00226	.00044
.800	-2.870	-.01000	.12963	-.17231	.00535	.00551	-.00110	.00056
.800	-.690	-.01000	.12872	-.04600	-.04167	.00813	-.00341	.00107
.800	1.470	-.01000	.12580	.08055	-.08872	.00972	-.00487	.00177
.800	3.650	.00000	.12194	.21139	-.13007	.00586	-.00352	.00157
.800	5.860	.00000	.11688	.34555	-.17400	.00750	-.00456	.00142
.800	8.030	.00000	.10982	.47014	-.21586	.00419	-.00252	.00086
.800	10.100	.00000	.11124	.56641	-.23824	.00409	-.00321	.00267
	GRADIENT	.00138	-.00120	.05882	-.02087	.00012	-.00040	.00017

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF (RA6006) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 23/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.900	-11.570	-.01000	.11880	-.81011	.26275	.00247	.00212	-.00107
.900	-9.600	-.01000	.13200	-.66495	.20851	.00355	.00141	-.00141
.900	-7.370	-.01000	.13575	-.50421	.14731	.00302	.00108	-.00033
.900	-5.170	-.01000	.13504	-.35132	.08811	.00386	-.00022	.00058
.900	-2.980	-.01000	.13890	-.20515	.02779	.00466	-.00123	.00028
.900	-.780	-.01000	.14090	-.06268	-.03492	.00601	-.00216	-.00014
.900	1.410	-.01000	.13547	.06517	-.08371	.00717	-.00327	.00057
.900	3.600	.00000	.13984	.19204	-.12577	.00691	-.00345	.00102
.900	5.840	-.01000	.13566	.32545	-.16545	.00775	-.00365	.00198
.900	8.040	-.01000	.12447	.46870	-.21919	.00865	-.00487	.00138
.900	10.120	.00000	.11817	.58439	-.25489	.00577	-.00409	.00225
	GRADIENT	.00137	-.00012	.06017	-.02323	.00036	-.00035	.00013

RUN NO. 22/ 0 RN/L = 6.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.098	-12.170	-.01000	.20313	.00000	.37810	-.00537	.00649	-.00096
1.098	-10.110	-.01000	.21850	-.83435	.30594	-.00411	.00569	-.00067
1.098	-7.790	-.01000	.23138	-.63128	.22525	-.00329	.00489	-.00007
1.098	-5.490	-.01000	.23658	-.44067	.15122	-.00114	.00340	.00033
1.098	-3.080	-.01000	.23284	-.25571	.07550	-.00058	.00288	.00074
1.098	-.900	-.01000	.23585	-.07822	.00172	-.00063	.00228	.00068
1.098	1.330	-.01000	.23284	.07241	-.06005	.00125	.00096	.00102
1.098	3.590	.00000	.23204	.21673	-.11704	-.00114	.00265	-.00001
1.098	5.860	-.01000	.22660	.36727	-.16956	-.00080	.00312	-.00003
1.098	8.100	-.01000	.23068	.51566	-.22770	-.00030	.00274	.00010
1.098	10.270	.00000	.20513	.65711	-.28065	-.00335	.00422	.00020
	GRADIENT	.00136	-.00025	.07047	-.02873	.00001	-.00009	-.00009

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF (RA6006) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 21/ 0 RN/L = 6.81 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.250	-12.280	-.02000	.24938	-.99808	.38104	-.00153	.00549	-.00065
1.250	-10.170	-.01000	.25995	-.79580	.29048	-.00113	.00444	.00036
1.250	-7.830	-.01000	.26862	-.59186	.20799	.00048	.00349	.00071
1.250	-5.530	-.02000	.27598	-.40993	.13958	.00268	.00215	.00080
1.250	-3.230	-.02000	.27834	-.24282	.07661	.00439	.00070	.00122
1.250	-.930	-.02000	.28284	-.08647	.01762	.00323	.00120	.00116
1.250	1.360	-.01000	.28519	.06369	-.03841	.00499	-.00030	.00195
1.250	3.580	-.01000	.28129	.19695	-.09551	.00442	-.00070	.00162
1.250	5.840	-.01000	.27816	.34158	-.14951	.00511	-.00096	.00166
1.250	8.080	-.01000	.27127	.48370	-.20863	.00531	-.00089	.00116
1.250	10.260	-.01000	.26230	.61846	-.25444	.00600	-.00176	.00137
	GRADIENT	.00176	.00050	.06469	-.02519	.00008	-.00025	.00009

RUN NO. 39/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.463	-12.420	-.01000	.26935	.00000	.39438	.00210	.00107	.00056
1.463	-10.250	-.01000	.27028	-.82639	.31231	.00186	.00141	.00083
1.463	-7.910	.00000	.27130	-.63160	.23299	-.00052	.00211	.00081
1.463	-5.590	-.01000	.27006	-.45353	.16495	.00061	.00137	.00068
1.463	-3.280	.00000	.27487	-.28651	.10162	.00159	.00012	.00069
1.463	-1.000	.00000	.27367	-.13498	.04576	.00167	-.00037	.00088
1.463	1.320	.00000	.27339	.01288	-.00785	.00181	-.00025	.00115
1.463	3.550	.00000	.26981	.14823	-.05838	-.00072	.00020	.00076
1.463	5.820	.00000	.26577	.28425	-.10947	-.00027	.00048	.00048
1.463	8.040	.00000	.26113	.42537	-.16171	.00022	.00057	.00050
1.463	10.240	.00000	.26054	.56157	-.21045	-.00026	.00079	.00052
	GRADIENT	.00000	-.00068	.06367	-.02340	-.00030	.00002	.00002

MSFC TWT 692.OTS+OGIVE FAIRING(POS.3)- PLUME OFF (RA6007) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 25/ 0 RN/L = 6.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.800	-11.310	-.01000	.11748	-.71018	.21250	.00721	-.00178	.00065
.800	-9.350	-.01000	.10846	-.57041	.15849	.00905	-.00361	.00119
.800	-7.180	-.01000	.11591	-.43103	.10628	.00876	-.00371	.00149
.800	-5.020	.00000	.12648	-.30097	.05390	.00746	-.00365	.00108
.800	-2.860	-.01000	.12962	-.16957	.00235	.01256	-.00588	.00163
.800	-.680	-.01000	.13206	-.04181	-.04488	.01173	-.00582	.00175
.800	1.480	.00000	.12667	.08367	-.09025	.00872	-.00459	.00169
.800	3.660	.00000	.12764	.21321	-.13118	.00858	-.00473	.00189
.800	5.860	.00000	.12206	.34519	-.17401	.00602	-.00332	.00133
.800	8.030	.00000	.11163	.47050	-.21585	.00409	-.00226	.00115
.800	10.090	.00000	.10709	.56815	-.23842	.00372	-.00227	.00270
	GRADIENT	.00184	-.00052	.05865	-.02053	-.00069	.00022	.00003

RUN NO. 26/ 0 RN/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.905	-11.590	-.01000	.12761	-.79522	.25684	.00610	-.00176	-.00056
.905	-9.620	-.01000	.14362	-.65895	.20611	.00436	-.00096	-.00115
.905	-7.380	.00000	.14229	-.49734	.14558	.00453	-.00203	.00035
.905	-5.170	.00000	.14681	-.35999	.09611	.00391	-.00136	.00046
.905	-2.960	.00000	.14821	-.19465	.02279	.00363	-.00144	.00027
.905	-.770	.00000	.15339	-.05610	-.03751	.00413	-.00123	-.00011
.905	1.420	.00000	.14654	.07069	-.08503	.00473	-.00166	.00049
.905	3.610	.00000	.14696	.19901	-.12818	.00321	-.00126	.00068
.905	5.840	.00000	.14294	.32943	-.16604	.00246	-.00119	.00130
.905	8.040	.00000	.13615	.46902	-.21967	.00687	-.00463	.00123
.905	10.160	.00000	.12946	.58637	-.25574	.00397	-.00361	.00201
	GRADIENT	.00000	-.00048	.05972	-.02285	-.00003	.00001	.00008

MSFC TWT 692.OTS+OGIVE FAIRING(POS.3)- PLUME OFF (RA6007) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 27/ 0 RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.100	-12.240	.00000	.20625	.00000	.37646	-.00601	.00657	-.00123
1.100	-10.120	-.01000	.22386	-.82399	.30004	-.00295	.00435	-.00058
1.100	-7.810	-.01000	.23238	-.61978	.21863	-.00196	.00368	-.00005
1.100	-5.490	-.01000	.23987	-.42879	.14487	-.00037	.00239	.00034
1.100	-3.200	-.01000	.24012	-.24644	.07078	.00073	.00162	.00077
1.100	-.900	.00000	.24176	-.07072	-.00174	.00093	.00097	.00084
1.100	1.320	.00000	.23826	.07836	-.06120	.00185	-.00018	.00113
1.100	3.570	.00000	.23980	.22098	-.11701	-.00005	.00150	.00009
1.100	5.860	-.01000	.23356	.37067	-.16885	-.00127	.00292	-.00016
1.100	8.100	.00000	.22662	.51975	-.22987	.00005	.00132	.00016
1.100	10.250	.00000	.21632	.65521	-.27662	-.00126	.00178	.00069
	GRADIENT	.00134	-.00020	.06887	-.02765	-.00006	-.00007	-.00008

RUN NO. 28/ 0 RN/L = 6.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.251	-12.290	-.01000	.26188	-.97415	.36226	-.00160	.00436	-.00044
1.251	-10.170	-.01000	.26755	-.76955	.27401	.00157	.00248	.00071
1.251	-7.830	-.02000	.27627	-.56753	.19400	.00314	.00165	.00116
1.251	-5.530	-.02000	.28243	-.38607	.12499	.00569	-.00005	.00148
1.251	-3.220	-.02000	.28514	-.22086	.06297	.00673	-.00109	.00159
1.251	-.920	-.01000	.29096	-.06653	.00568	.00641	-.00159	.00162
1.251	1.350	-.01000	.29314	.08140	-.04778	.00731	-.00265	.00202
1.251	3.570	-.01000	.28959	.21231	-.10318	.00770	-.00362	.00207
1.251	5.850	-.01000	.28304	.35763	-.15762	.00724	-.00266	.00159
1.251	8.090	-.01000	.27525	.49989	-.21973	.00771	-.00346	.00131
1.251	10.250	-.01000	.26777	.63497	-.26568	.00784	-.00426	.00161
	GRADIENT	.00133	.00069	.06395	-.02438	.00017	-.00038	.00008

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF (RA6007) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 40/ 0 RN/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.459	-12.390	-.01000	.26865	-.99505	.37824	.00532	-.00138	.00091
1.459	-10.230	-.01000	.27274	-.80316	.29676	.00453	-.00074	.00124
1.459	-7.890	-.01000	.27203	-.60385	.21562	.00204	.00049	.00122
1.459	-5.570	-.01000	.27671	-.42664	.14774	.00408	-.00115	.00154
1.459	-3.260	.00000	.27975	-.25865	.08386	.00441	-.00213	.00160
1.459	-.980	.00000	.27873	-.10782	.02954	.00347	-.00183	.00144
1.459	1.340	.00000	.27902	.03625	-.01982	.00203	-.00062	.00128
1.459	3.570	.00000	.27670	.16810	-.06652	-.00036	-.00024	.00100
1.459	5.840	.00000	.27195	.30183	-.11632	-.00008	-.00048	.00066
1.459	8.060	.00000	.26671	.44078	-.16712	-.00095	-.00003	.00040
1.459	10.260	.00000	.26427	.57422	-.21594	-.00108	-.00019	.00034
	GRADIENT	.00000	-.00039	.06245	-.02194	-.00069	.00030	-.00009

MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF (RA6008) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 32/ 0 RN/L = 6.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.801	-11.340	-.01000	.09897	-.71363	.21417	.00712	-.00251	.00026
.801	-9.390	-.01000	.10103	-.58603	.16577	.00916	-.00326	.00064
.801	-7.220	-.01000	.12214	-.44156	.11136	.00927	-.00339	.00119
.801	-5.070	-.01000	.12424	-.30827	.05763	.00992	-.00471	.00140
.801	-2.890	-.01000	.12736	-.17579	.00425	.00910	-.00421	.00139
.801	-.710	-.01000	.12691	-.05051	-.04071	.01088	-.00582	.00161
.801	1.450	-.01000	.12622	.07629	-.08885	.01057	-.00603	.00194
.801	3.630	.00000	.11781	.20697	-.12976	.00922	-.00582	.00216
.801	5.810	.00000	.11738	.33475	-.17149	.01376	-.00898	.00243
.801	7.980	-.01000	.11126	.46242	-.21488	.01439	-.00906	.00244
.801	10.080	.00000	.10630	.55997	-.23770	.01186	-.00818	.00335
	GRADIENT	.00138	-.00135	.05871	-.02073	.00000	-.00023	.00012

MSFC TWT 692.OTS + LARGE FAIRING - PLUME OFF (RA6008) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 31/ O RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.901	-11.650	-.01000	.12283	-.82567	.26844	.00553	-.00047	-.00068
.901	-9.670	-.01000	.14071	-.68029	.21375	.00461	-.00009	-.00076
.901	-7.410	-.01000	.13946	-.51065	.14811	.00800	-.00272	.00032
.901	-5.190	-.01000	.13895	-.35708	.08835	.00676	-.00149	.00208
.901	-3.000	-.01000	.13918	-.20651	.02547	.00750	-.00309	.00181
.901	-.800	-.01000	.14173	-.06827	-.03361	.00712	-.00312	.00060
.901	1.380	-.01000	.13821	.05776	-.08232	.01057	-.00513	.00156
.901	3.580	-.01000	.13672	.18547	-.12436	.00780	-.00390	.00139
.901	5.810	-.01000	.13559	.31770	-.16405	.00916	-.00442	.00219
.901	8.020	.00000	.12264	.46196	-.21870	.00997	-.00600	.00188
.901	10.120	.00000	.12163	.58109	-.25657	.00961	-.00652	.00272
	GRADIENT	.00000	-.00050	.05940	-.02273	.00020	-.00020	-.00001

RUN NO. 30/ O RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.100	-12.280	.00000	.20928	-.93549	.39849	-.01049	.01011	-.00195
1.100	-10.170	.00000	.21718	-.85382	.31691	-.00729	.00782	-.00133
1.100	-7.850	-.01000	.23064	-.64800	.23403	-.00425	.00548	-.00071
1.100	-5.530	-.01000	.22714	-.45090	.15354	-.00179	.00366	-.00028
1.100	-3.230	-.01000	.23018	-.26587	.07808	-.00074	.00288	.00021
1.100	-.930	.00000	.23320	-.08861	.00490	-.00236	.00322	.00039
1.100	1.300	-.01000	.23297	.06637	-.05957	-.00053	.00238	.00103
1.100	3.540	.00000	.23182	.21260	-.11742	-.00049	.00189	.00058
1.100	5.820	.00000	.22820	.36208	-.16933	.00026	.00131	.00067
1.100	8.070	.00000	.21982	.51129	-.22854	.00061	.00018	.00057
1.100	10.240	.00000	.21124	.64782	-.27521	.00007	.00000	.00114
	GRADIENT	.00089	.00021	.07058	-.02889	.00011	-.00017	.00008

MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF (RA6008) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 29/ 0 RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.251	-12.310	-.01000	.25854	-.99999	.37937	-.00508	.00798	-.00120
1.251	-10.190	-.02000	.26271	-.79397	.28652	-.00225	.00593	-.00002
1.251	-7.850	-.02000	.26863	-.59031	.20548	.00135	.00349	.00043
1.251	-5.550	-.02000	.27407	-.40800	.13460	.00368	.00181	.00086
1.251	-3.260	-.02000	.27574	-.24255	.07277	.00368	.00153	.00093
1.251	-.960	-.02000	.28082	-.08504	.01226	.00539	-.00025	.00132
1.251	1.310	-.02000	.28239	.06449	-.04373	.00519	-.00021	.00156
1.251	3.550	-.01000	.27971	.20085	-.10264	.00569	-.00148	.00205
1.251	5.810	-.01000	.27687	.34558	-.15724	.00586	-.00212	.00232
1.251	8.080	-.01000	.27096	.48982	-.21633	.00701	-.00330	.00196
1.251	10.240	-.01000	.26354	.62246	-.26129	.00709	-.00328	.00179
	GRADIENT	.00132	.00060	.06520	-.02565	.00026	-.00040	.00016

RUN NO. 33/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.459	-12.370	-.01000	.26086	.00000	.39252	-.00022	.00189	.00008
1.459	-10.240	.00000	.26602	-.82683	.31289	-.00079	.00231	.00016
1.459	-7.910	.00000	.26795	-.63002	.23275	-.00164	.00251	.00035
1.459	-5.560	-.01000	.26844	-.45109	.16427	.00022	.00162	.00041
1.459	-3.260	-.01000	.26790	-.28780	.10256	.00226	-.00011	.00064
1.459	-.980	.00000	.26988	-.14047	.04996	.00251	-.00075	.00059
1.459	1.310	.00000	.26929	.00087	.00049	.00266	-.00056	.00075
1.459	3.560	.00000	.26565	.13518	-.05010	.00231	-.00133	.00069
1.459	5.830	.00000	.26183	.27243	-.10351	.00315	-.00139	.00072
1.459	8.070	.00000	.25551	.41652	-.15712	.00264	-.00076	.00082
1.459	10.250	.00000	.25436	.54970	-.20492	.00384	-.00184	.00081
	GRADIENT	.00132	-.00032	.06199	-.02231	.00001	-.00015	.00001

MSFC TWT 692,OTS+WING FAIRING(POS.1) - PLUME OFF (RA6009) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 85/ 0 RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.251	-12.380	-.03000	.27299	-.94509	.32414	.00821	.00102	.00141
1.251	-10.200	-.03000	.27741	-.73399	.23431	.01092	-.00266	.00170
1.251	-7.870	-.03000	.29193	-.54442	.16174	.01294	-.00393	.00254
1.251	-5.550	-.03000	.30146	-.36666	.09801	.01408	-.00479	.00307
1.251	-3.260	-.03000	.29874	-.20840	.04191	.01417	-.00498	.00352
1.251	-.960	-.03000	.30416	-.05830	-.01067	.01480	-.00618	.00344
1.251	1.310	-.02000	.30771	.07675	-.05196	.01456	-.00665	.00357
1.251	3.540	-.02000	.30033	.19903	-.09813	.01102	-.00465	.00294
1.251	5.820	-.01000	.29448	.34313	-.15265	.00964	-.00437	.00303
1.251	8.060	-.02000	.28301	.48457	-.21182	.00821	-.00321	.00241
1.251	10.250	-.02000	.27366	.62147	-.25932	.00993	-.00331	.00207
	GRADIENT	.00176	.00038	.05989	-.02036	-.00042	.00002	-.00007

MSFC TWT 692,OTS+WING FAIRING(POS.2) - PLUME OFF (RA6010) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 86/ 0 RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.250	-12.370	-.03000	.27097	-.94261	.32440	.00726	.00129	.00159
1.250	-10.200	-.03000	.28059	-.73598	.23727	.01011	-.00194	.00213
1.250	-7.870	-.02000	.28447	-.53558	.15904	.01299	-.00472	.00290
1.250	-5.550	-.03000	.29162	-.35748	.09432	.01426	-.00549	.00339
1.250	-3.260	-.03000	.29597	-.19429	.03477	.01392	-.00523	.00373
1.250	-.940	-.02000	.30449	-.04385	-.01839	.01365	-.00606	.00363
1.250	1.330	-.02000	.30891	.09311	-.06125	.01425	-.00673	.00340
1.250	3.550	-.01000	.30709	.21446	-.10660	.01230	-.00659	.00281
1.250	5.800	-.01000	.30140	.35079	-.15663	.01024	-.00517	.00243
1.250	8.040	-.01000	.29316	.48647	-.21174	.00852	-.00379	.00196
1.250	10.240	-.02000	.28179	.61676	-.25425	.01040	-.00415	.00186
	GRADIENT	.00264	.00167	.06008	-.02058	-.00019	-.00021	-.00013

MSFC TWT 692, O T S (BASELINE) - PLUME ON (RA6011) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 67/ O RN/L = 6.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.801	-11.260	-.01000	.09961	-.65565	.17409	.00725	-.00163	.00022
.801	-9.290	-.01000	.10678	-.52046	.12091	.01154	-.00459	.00133
.801	-7.110	-.01000	.11653	-.38034	.06734	.01051	-.00370	.00169
.801	-4.960	-.01000	.12960	-.25575	.01798	.00978	-.00416	.00145
.801	-2.800	-.01000	.11731	-.12412	-.03000	.01087	-.00479	.00115
.801	-.640	-.01000	.12853	-.00341	-.07330	.01308	-.00678	.00172
.801	1.540	.00000	.12475	.11617	-.11421	.01088	-.00639	.00191
.801	3.720	.00000	.11861	.24724	-.15475	.01056	-.00669	.00241
.801	5.930	.00000	.11020	.37789	-.19609	.01382	-.00920	.00282
.801	8.080	.00000	.10426	.50243	-.23866	.01576	-.01053	.00154
.801	10.120	.00000	.10416	.58131	-.24782	.00829	-.00620	.00348
	GRADIENT	.00138	-.00067	.05743	-.01980	.00007	-.00031	.00012

RUN NO. 68/ O RN/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.901	-11.540	-.01000	.12097	-.74227	.21274	.00916	-.00347	.00043
.901	-9.540	-.02000	.13249	-.60546	.16114	.01057	-.00333	.00055
.901	-7.330	-.02000	.14094	-.43967	.09628	.01002	-.00295	.00140
.901	-5.120	-.01000	.12564	-.29197	.04096	.00923	-.00335	.00174
.901	-2.920	-.01000	.13399	-.14927	-.01609	.01267	-.00591	.00197
.901	-.720	-.01000	.13769	-.02078	-.06705	.01299	-.00649	.00106
.901	1.480	-.01000	.13577	.10036	-.10946	.01513	-.00870	.00201
.901	3.680	-.01000	.13938	.22390	-.14770	.01280	-.00782	.00234
.901	5.900	-.01000	.13220	.35539	-.18395	.01427	-.00887	.00352
.901	8.090	-.01000	.12413	.49143	-.23663	.01603	-.01044	.00334
.901	10.160	.00000	.11330	.59448	-.26106	.01200	-.00953	.00418
	GRADIENT	-.00000	.00065	.05639	-.01987	.00012	-.00036	.00009

MSFC TWT 692, O T S (BASELINE) - PLUME ON (RA6011) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 50/ 0 RN/L = 6.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.099	-12.140	.00000	.21083	-.91713	.29196	-.00094	.00195	-.00028
1.099	-10.010	.00000	.21599	-.71861	.21135	-.00192	.00366	-.00068
1.099	-7.710	-.01000	.22164	-.52346	.13675	.00100	.00151	.00021
1.099	-5.370	-.01000	.23293	-.33291	.06414	.00203	.00069	.00045
1.099	-3.090	.00000	.23152	-.15889	-.00351	.00221	-.00040	.00069
1.099	-.810	.00000	.22723	.00511	-.06556	.00103	-.00028	.00065
1.099	1.470	.00000	.22109	.13820	-.11235	-.00069	.00108	-.00005
1.099	3.710	.00000	.21386	.26929	-.15704	-.00204	.00166	-.00060
1.099	6.000	.00000	.21286	.41881	-.20569	-.00018	.00042	-.00030
1.099	8.210	.00000	.20376	.55890	-.26146	-.00032	.00112	-.00003
1.099	10.410	.00000	.19276	.68078	-.29458	-.00246	.00302	-.00033
	GRADIENT	.00000	-.00261	.06252	-.02238	-.00064	.00033	-.00020

RUN NO. 49/ 0 RN/L = 6.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.249	-12.230	-.04000	.25557	-.91656	.29958	.00995	-.00038	.00101
1.249	-10.080	-.03000	.26535	-.70173	.20535	.01527	-.00588	.00250
1.249	-7.740	-.03000	.27017	-.50253	.12734	.01887	-.00867	.00315
1.249	-5.400	-.03000	.27327	-.31333	.05472	.01884	-.00902	.00348
1.249	-3.120	-.02000	.27717	-.15171	-.00396	.01660	-.00828	.00370
1.249	-.820	-.02000	.27754	-.00245	-.05541	.01456	-.00736	.00325
1.249	1.470	-.02000	.28085	.13111	-.09554	.01523	-.00762	.00347
1.249	3.700	-.02000	.27519	.25217	-.13905	.01271	-.00622	.00253
1.249	6.000	-.02000	.26631	.38757	-.18462	.01170	-.00509	.00189
1.249	8.200	-.02000	.25588	.52106	-.23896	.01000	-.00380	.00140
1.249	10.420	-.02000	.24458	.64772	-.27545	.00926	-.00334	.00184
	GRADIENT	.00000	-.00011	.05915	-.01958	-.00048	.00026	-.00014

MSFC TWT 692, O T S (BASELINE) PLUME ON (RA6011) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 48/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.460	-12.230	.00000	.25377	-.91230	.30532	.00378	-.00174	.00074
1.460	-10.090	.00000	.25746	-.72265	.22426	.00030	.00099	.00030
1.460	-7.750	.00000	.25954	-.51865	.13764	.00052	-.00019	.00065
1.460	-5.430	.00000	.26277	-.34253	.06949	.00301	-.00174	.00110
1.460	-3.120	.00000	.26747	-.17565	.00760	.00368	-.00293	.00131
1.460	-.850	.00000	.26686	-.02788	-.04267	.00351	-.00305	.00137
1.460	1.450	.00000	.26826	.11354	-.08838	.00262	-.00271	.00134
1.460	3.710	.00000	.26148	.24121	-.12838	.00266	-.00419	.00134
1.460	5.960	.00000	.25796	.36487	-.16655	.00151	-.00242	.00063
1.460	8.230	.00000	.24853	.49734	-.21163	.00194	-.00309	.00055
1.460	10.420	.00000	.24830	.62448	-.25260	.00549	-.00560	.00087
	GRADIENT	.00000	-.00073	.06108	-.01991	-.00017	-.00015	.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON (RA6012) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 70/ 0 RN/L = 6.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.802	-11.280	-.02000	.09592	-.65950	.17525	.00854	-.00123	.00023
.802	-9.330	-.02000	.11219	-.52348	.12234	.01148	-.00336	.00098
.802	-7.130	-.01000	.11963	-.38479	.06787	.01124	-.00400	.00138
.802	-4.960	-.02000	.11816	-.25340	.01838	.01350	-.00546	.00146
.802	-2.810	-.01000	.12829	-.12856	-.02918	.01066	-.00458	.00090
.802	-.650	-.01000	.12457	-.00761	-.07196	.01213	-.00602	.00143
.802	1.510	-.01000	.12406	.11201	-.11286	.01214	-.00651	.00188
.802	3.700	.00000	.12343	.24393	-.15403	.01244	-.00751	.00257
.802	5.900	.00000	.11551	.37409	-.19498	.01388	-.00963	.00252
.802	8.040	.00000	.10302	.49713	-.23704	.01708	-.01266	.00163
.802	10.120	.00000	.10671	.57759	-.24734	.01251	-.00928	.00369
	GRADIENT	.00185	.00029	.05708	-.01980	-.00003	-.00028	.00015

MSFC TWT 692.DTS + 10 DEG.RAMP(POS.1)- PLUME ON (RA6012) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE - .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 69/ 0 RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.901	-11.560	-.02000	.12554	-.75200	.21662	.01105	-.00374	.00073
.901	-9.560	-.02000	.13671	-.61174	.16311	.01001	-.00205	.00018
.901	-7.320	-.02000	.13114	-.44541	.09864	.00948	-.00204	.00121
.901	-5.090	-.02000	.13911	-.29503	.04141	.01004	-.00245	.00146
.901	-2.920	-.01000	.13340	-.15329	-.01341	.01113	-.00448	.00154
.901	-.720	-.01000	.13796	-.02220	-.06676	.01156	-.00511	.00083
.901	1.480	-.01000	.13567	.09718	-.10810	.01246	-.00663	.00146
.901	3.670	-.01000	.13467	.22084	-.14688	.01201	-.00699	.00209
.901	5.900	-.01000	.12678	.35301	-.18273	.01227	-.00733	.00308
.901	8.090	.00000	.12320	.48655	-.23381	.01416	-.00921	.00289
.901	10.180	.00000	.11598	.59314	-.26119	.01212	-.00918	.00389
	GRADIENT	-.00000	.00007	.05652	-.02011	.00016	-.00041	.00010

RUN NO. 51/ 0 RN/L = 6.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.099	-12.150	-.01000	.20568	-.93297	.30079	-.00117	.00328	-.00104
1.099	-10.020	-.01000	.21423	-.73693	.22141	.00309	-.00017	-.00080
1.099	-7.740	-.01000	.22314	-.53862	.14427	.00257	-.00019	-.00054
1.099	-5.410	-.01000	.22987	-.35482	.07465	.00231	.00039	-.00046
1.099	-3.120	.00000	.22903	-.17706	.00658	.00082	.00004	-.00004
1.099	-.820	.00000	.22611	-.01204	-.05654	.00071	-.00055	.00027
1.099	1.440	.00000	.22186	.12820	-.10914	.00008	.00019	-.00050
1.099	3.680	.00000	.21339	.26555	-.15836	-.00156	.00046	-.00098
1.099	5.970	.00000	.20744	.41287	-.20595	-.00111	-.00072	-.00041
1.099	8.190	.00000	.20215	.55038	-.25791	-.00123	-.00103	.00022
1.099	10.380	.00000	.18945	.67558	-.29435	-.00250	.00014	.00032
	GRADIENT	.00000	-.00225	.06480	-.02417	-.00034	.00009	-.00016

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON (RA6012) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 52/ 0 RN/L = 6.85 GRADIENT INTERVAL - -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.250	-12.220	-.01000	.25070	-.90654	.29919	.00251	.00152	-.00062
1.250	-10.080	-.01000	.25664	-.69829	.20726	.00561	-.00159	.00011
1.250	-7.760	-.01000	.26204	-.49544	.12735	.00645	-.00216	.00061
1.250	-5.410	-.01000	.27334	-.31436	.05938	.00569	-.00111	.00084
1.250	-3.130	-.01000	.27491	-.15166	-.00118	.00444	-.00137	.00110
1.250	-.830	.00000	.27204	-.00669	-.05032	.00342	-.00152	.00113
1.250	1.440	.00000	.27270	.13000	-.09453	.00333	-.00200	.00100
1.250	3.680	.00000	.26953	.25493	-.14221	.00413	-.00328	.00122
1.250	5.960	.00000	.26291	.39332	-.19018	.00388	-.00385	.00108
1.250	8.190	.00000	.25189	.52751	-.24226	.00293	-.00448	.00122
1.250	10.400	.01000	.24065	.65693	-.28313	.00393	-.00625	.00250
	GRADIENT	.00133	-.00068	.05977	-.02059	-.00005	-.00027	.00001

RUN NO. 44/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.459	-12.270	.00000	.25091	-.93264	.31626	-.00087	.00075	-.00060
1.459	-10.020	.00000	.25424	-.73492	.23071	-.00116	.00116	-.00037
1.459	-7.780	.00000	.25393	-.53154	.14465	-.00137	.00009	-.00007
1.459	-5.460	.00000	.25817	-.35600	.07710	.00112	-.00137	.00027
1.459	-3.160	.00000	.26103	-.19409	.01851	.00175	-.00143	.00048
1.459	-.870	.00000	.26334	-.04406	-.03389	.00038	-.00087	.00027
1.459	1.430	.00000	.26156	.09531	-.07967	.00084	-.00121	.00047
1.459	3.690	.00000	.25882	.22137	-.11921	.00026	-.00208	.00045
1.459	5.940	.00000	.25215	.34925	-.16047	.00116	-.00213	.00046
1.459	8.200	.00000	.24236	.48310	-.20655	.00252	-.00358	.00049
1.459	10.400	.00000	.24183	.61140	-.24773	.00544	-.00565	.00089
	GRADIENT	.00000	-.00037	.06065	-.02009	-.00018	-.00010	.00000

MSFC TWT 692.01S + 10 DEG.RAMP(POS.2)- PLUME ON (RA6013) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 71/ 0 RN/L = 6.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.803	-11.240	-.02000	.09723	-.66201	.17645	.00754	-.00026	.00017
.803	-9.310	-.02000	.11505	-.52658	.12340	.01023	-.00201	.00085
.803	-7.130	-.01000	.11650	-.38485	.07031	.01046	-.00311	.00141
.803	-4.970	-.01000	.12940	-.25641	.02007	.01151	-.00410	.00122
.803	-2.810	-.01000	.12905	-.12991	-.02785	.01003	-.00364	.00078
.803	-.650	-.01000	.12320	-.01030	-.06948	.01036	-.00457	.00111
.803	1.510	-.01000	.12705	.10941	-.11099	.01139	-.00617	.00176
.803	3.700	.00000	.11976	.24024	-.15153	.01073	-.00635	.00225
.803	5.910	.00000	.11615	.37499	-.19450	.01451	-.00958	.00260
.803	8.070	.00000	.10203	.49761	-.23661	.01650	-.01134	.00159
.803	10.140	.00000	.10732	.57940	-.24689	.01069	-.00809	.00352
	GRADIENT	.00093	-.00098	.05691	-.01968	-.00001	-.00032	.00014

RUN NO. 72/ 0 RN/L = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.903	-11.570	-.02000	.13062	-.75428	.21988	.01002	-.00250	.00034
.903	-9.570	-.02000	.14437	-.61200	.16354	.00908	-.00114	.00011
.903	-7.310	-.02000	.12673	-.44362	.09775	.00857	-.00121	.00131
.903	-5.100	-.02000	.13452	-.29721	.04367	.00938	-.00263	.00131
.903	-2.900	-.01000	.13961	-.15333	-.01354	.00915	-.00268	.00123
.903	-.730	-.01000	.14005	-.02608	-.06407	.01032	-.00432	.00043
.903	1.480	-.01000	.13814	.09681	-.10756	.01032	-.00508	.00108
.903	3.650	.00000	.13657	.21835	-.14533	.00708	-.00411	.00117
.903	5.890	.00000	.13283	.35035	-.18196	.00949	-.00584	.00254
.903	8.070	.00000	.12339	.48533	-.23200	.01014	-.00674	.00213
.903	10.180	.00000	.12027	.59324	-.26040	.00801	-.00689	.00313
	GRADIENT	.00137	-.00051	.05663	-.02008	-.00028	-.00023	.00002

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON (RA6013) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 54/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.100	-12.170	.00000	.20552	-.93091	.29919	-.00096	.00234	-.00069
1.100	-10.000	-.01000	.21530	-.73341	.22167	.00132	.00076	-.00036
1.100	-7.700	.00000	.22768	-.53896	.14769	.00317	-.00123	.00017
1.100	-5.380	-.01000	.23336	-.35061	.07745	.00303	-.00070	.00024
1.100	-3.070	.00000	.23495	-.17067	.00418	.00203	-.00048	.00053
1.100	-.800	.00000	.22885	-.00549	-.05969	.00102	-.00021	.00070
1.100	1.460	.00000	.22185	.13221	-.11035	.00078	-.00049	.00001
1.100	3.700	.00000	.21913	.26426	-.15480	-.00139	.00039	-.00063
1.100	5.950	.00000	.21166	.41077	-.20388	-.00175	.00015	-.00044
1.100	8.210	.00000	.19425	.55646	-.26156	-.00226	.00022	-.00016
1.100	10.390	.00000	.19732	.67720	-.29493	-.00513	.00208	-.00024
	GRADIENT	.00000	-.00241	.06392	-.02338	-.00046	.00010	-.00018

RUN NO. 53/ 0 RN/L = 6.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.251	-12.220	-.01000	.25199	-.89918	.29594	.00177	.00126	-.00032
1.251	-10.030	-.01000	.25552	-.68955	.20406	.00468	-.00103	.00055
1.251	-7.740	-.01000	.26592	-.49303	.12613	.00662	-.00310	.00099
1.251	-5.390	-.01000	.27017	-.30853	.05663	.00586	-.00184	.00111
1.251	-3.100	-.01000	.27074	-.14459	-.00374	.00555	-.00236	.00144
1.251	-.800	.00000	.27488	.00294	-.05539	.00336	-.00176	.00103
1.251	1.490	.00000	.27608	.13797	-.09725	.00369	-.00260	.00113
1.251	3.710	.00000	.27041	.25978	-.14296	.00317	-.00317	.00099
1.251	5.930	.00000	.26534	.39669	-.19096	.00235	-.00303	.00072
1.251	8.190	.00000	.25372	.53181	-.24463	.00184	-.00318	.00049
1.251	10.390	.00000	.24089	.66002	-.28405	.00227	-.00311	.00133
	GRADIENT	.00133	.00002	.05935	-.02023	-.00030	-.00014	-.00006

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON (RA6013) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 45/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.459	-12.290	-.01000	.25001	-.92803	.31318	.00425	-.00156	-.00004
1.459	-10.120	-.01000	.25245	-.72966	.22851	.00344	-.00108	.00024
1.459	-7.790	.00000	.25834	-.52907	.14270	.00177	-.00158	.00033
1.459	-5.480	.00000	.26071	-.35268	.07546	.00405	-.00272	.00089
1.459	-3.150	.00000	.26322	-.18803	.01529	.00350	-.00227	.00095
1.459	-.870	.00000	.26491	-.03920	-.03641	.00188	-.00172	.00068
1.459	1.410	.00000	.26431	.09756	-.07959	.00148	-.00165	.00061
1.459	3.670	.00000	.26008	.22386	-.11966	.00108	-.00299	.00060
1.459	5.930	.00000	.25374	.35145	-.16080	.00127	-.00252	.00041
1.459	8.200	.00000	.24213	.48584	-.20720	.00127	-.00272	.00020
1.459	10.380	.00000	.24103	.61231	-.24731	.00338	-.00450	.00036
	GRADIENT	.00000	-.00044	.06036	-.01970	-.00034	-.00009	-.00005

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON (RA6014) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 74/ 0 RN/L = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.801	-11.270	-.01000	.10195	-.65730	.17512	.00624	.00012	-.00032
.801	-9.320	-.02000	.10675	-.52400	.12363	.00924	-.00188	.00053
.801	-7.150	-.02000	.11915	-.38517	.06986	.01123	-.00347	.00119
.801	-4.990	-.01000	.12473	-.26097	.02133	.01049	-.00389	.00103
.801	-2.830	-.01000	.12977	-.12909	-.02799	.01136	-.00452	.00090
.801	-.670	-.01000	.12794	-.01005	-.06959	.01181	-.00545	.00131
.801	1.510	-.01000	.12705	.11046	-.11093	.01347	-.00730	.00200
.801	3.700	-.01000	.12164	.24087	-.15114	.01421	-.00837	.00272
.801	5.890	.00000	.11900	.37493	-.19425	.01591	-.01079	.00276
.801	8.030	.00000	.10636	.49645	-.23549	.01785	-.01252	.00181
.801	10.120	.00000	.10851	.57868	-.24675	.01392	-.00971	.00406
	GRADIENT	.00000	-.00041	.05724	-.01970	.00044	-.00054	.00021

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON (RA6014) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 73/ 0 RN/L - 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.904	-11.500	-.02000	.11302	-.73064	.20673	.00754	-.00151	.00035
.904	-9.540	-.02000	.14029	-.59956	.15889	.00808	-.00062	.00013
.904	-7.310	-.02000	.12625	-.43816	.09746	.00624	.00031	.00076
.904	-5.100	-.02000	.13485	-.28968	.04049	.00954	-.00260	.00135
.904	-2.920	-.01000	.13780	-.15148	-.01424	.00862	-.00318	.00107
.904	-.750	-.01000	.14434	-.02206	-.06660	.00838	-.00347	.00020
.904	1.460	-.01000	.14007	.09847	-.10801	.01109	-.00602	.00117
.904	3.660	-.01000	.14187	.22087	-.14578	.01065	-.00601	.00172
.904	5.900	.00000	.13688	.35393	-.18286	.01057	-.00628	.00283
.904	8.080	.00000	.12569	.48623	-.23189	.01397	-.00927	.00279
.904	10.180	.00000	.12489	.59089	-.25892	.01058	-.00920	.00374
	GRADIENT	-.00000	.00036	.05638	-.01986	.00040	-.00050	.00013

RUN NO. 55/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.100	-12.210	-.01000	.21494	-.94665	.31127	-.00114	.00280	-.00075
1.100	-10.020	-.01000	.21972	-.73654	.22530	.00102	.00094	-.00067
1.100	-7.690	-.01000	.22378	-.53635	.14636	.00243	.00002	-.00026
1.100	-5.380	-.01000	.22489	-.34662	.07491	.00305	-.00047	.00016
1.100	-3.090	.00000	.23105	-.16847	.00359	.00181	.00018	.00039
1.100	-.810	.00000	.23038	-.00467	-.05874	.00027	.00043	.00061
1.100	1.440	.00000	.22542	.13143	-.10770	-.00026	.00045	-.00016
1.100	3.700	.00000	.21921	.26563	-.15512	-.00258	.00169	-.00075
1.100	5.960	.00000	.21531	.41256	-.20308	-.00229	.00099	-.00054
1.100	8.210	.00000	.20341	.55431	-.25829	-.00276	.00061	-.00005
1.100	10.370	.00000	.19229	.67788	-.29379	-.00527	.00321	-.00038
	GRADIENT	.00000	-.00179	.06360	-.02322	-.00061	.00020	-.00018

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON (RA6014) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 56/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.251	-12.250	-.01000	.25358	-.90727	.30135	.00014	.00232	-.00060
1.251	-10.080	-.01000	.25670	-.69908	.21029	.00143	.00150	.00020
1.251	-7.760	-.01000	.26242	-.50101	.13268	.00496	-.00165	.00086
1.251	-5.440	-.01000	.27083	-.31778	.06240	.00545	-.00158	.00116
1.251	-3.130	-.01000	.27619	-.15094	-.00007	.00446	-.00161	.00136
1.251	-.830	.00000	.27604	-.00405	-.05035	.00369	-.00170	.00127
1.251	1.460	.00000	.27752	.13329	-.09368	.00400	-.00240	.00132
1.251	3.680	.00000	.27357	.25425	-.13881	.00303	-.00254	.00121
1.251	5.900	.00000	.26815	.39028	-.18557	.00345	-.00282	.00087
1.251	8.150	.00000	.25669	.52564	-.24030	.00255	-.00263	.00046
1.251	10.360	.00000	.24272	.65277	-.27995	.00247	-.00287	.00158
	GRADIENT	.00133	-.00028	.05956	-.02023	-.00017	-.00015	-.00002

RUN NO. 46/ 0 RN/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.460	-12.230	.00000	.25277	-.91414	.30565	.00323	-.00105	-.00002
1.460	-10.110	.00000	.25353	-.72166	.22357	.00161	.00011	.00019
1.460	-7.760	.00000	.25714	-.51852	.13684	-.00035	-.00026	.00014
1.460	-5.430	.00000	.26385	-.34086	.06965	.00190	-.00126	.00058
1.460	-3.100	.00000	.26620	-.17703	.00972	.00294	-.00223	.00094
1.460	-.840	.00000	.26570	-.03045	-.04049	.00109	-.00144	.00071
1.460	1.470	.00000	.26622	.10889	-.08455	.00042	-.00108	.00061
1.460	3.710	.00000	.26097	.23569	-.12500	.00052	-.00258	.00079
1.460	5.960	.00000	.25247	.35950	-.16416	.00002	-.00179	.00035
1.460	8.230	.00000	.24366	.49423	-.21075	.00066	-.00252	.00038
1.460	10.410	.00000	.24635	.61868	-.24948	.00284	-.00383	.00053
	GRADIENT	.00000	-.00066	.06058	-.01971	-.00035	-.00003	-.00002

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON (RA6015) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 75/ 0 RN/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.802	-11.300	.00000	.10214	-.67353	.17930	-.00209	.00366	-.00130
.802	-9.340	.00000	.12872	-.55195	.13008	.00201	.00122	-.00078
.802	-7.180	-.01000	.12758	-.40973	.07624	.00523	-.00088	-.00010
.802	-4.970	-.01000	.13480	-.26649	.02289	.00884	-.00235	.00054
.802	-2.800	-.01000	.12643	-.13607	-.02603	.00186	.00183	-.00031
.802	-.660	-.01000	.11690	-.01525	-.06634	.00388	.00088	.00019
.802	1.530	-.01000	.12431	.11029	-.10979	.00523	-.00005	.00098
.802	3.700	.00000	.12337	.23422	-.15009	.00392	-.00139	.00119
.802	5.880	.00000	.12155	.36667	-.19656	.00477	-.00372	.00099
.802	8.040	.00000	.10874	.48826	-.23868	.00739	-.00592	.00025
.802	10.120	.00000	.10632	.57084	-.24964	-.00043	-.00108	.00207
	GRADIENT	.00092	-.00115	.05758	-.01983	-.00030	.00000	.00012

RUN NO. 76/ 0 RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.902	-11.600	.00000	.12230	-.76232	.21590	.00152	.00020	-.00136
.902	-9.610	.00000	.11925	-.62001	.16281	.00219	-.00046	-.00136
.902	-7.380	.00000	.13601	-.46164	.10273	-.00064	.00086	-.00068
.902	-5.150	.00000	.13180	-.30583	.04351	.00154	.00014	-.00018
.902	-2.920	.00000	.13748	-.15889	-.01321	.00201	.00027	-.00016
.902	-.730	-.01000	.13953	-.02488	-.06285	.00360	.00124	-.00001
.902	1.480	-.01000	.13834	.09906	-.10729	.00558	-.00118	.00071
.902	3.670	.00000	.13252	.21938	-.14732	.00526	-.00236	.00096
.902	5.870	.00000	.13190	.35017	-.18997	.00112	-.00146	.00135
.902	8.070	.00000	.12483	.48367	-.23906	-.00254	.00046	.00034
.902	10.180	.01000	.12150	.59021	-.26610	-.00559	.00209	.00128
	GRADIENT	-.00000	.00073	.05727	-.02033	.00053	-.00047	.00019

MSFC TWT 692.OTS+OGIVE FAIRING(POS.1)- PLUME ON (RA6015) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 58/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.099	-12.180	-.01000	.19142	-.94767	.30901	-.00875	.01011	-.00226
1.099	-10.060	-.01000	.20972	-.76441	.24054	-.00987	.01072	-.00214
1.099	-7.730	-.01000	.21437	-.55815	.15730	-.00789	.00958	-.00146
1.099	-5.410	-.01000	.23010	-.37696	.08937	-.00758	.00925	-.00123
1.099	-3.100	-.01000	.21842	-.20192	.01853	-.00590	.00741	-.00029
1.099	-.820	.00000	.21941	-.02970	-.04860	-.00569	.00662	.00004
1.099	1.420	.00000	.20634	.11258	-.10485	-.00625	.00657	-.00051
1.099	3.680	.00000	.21145	.25308	-.15570	-.00650	.00629	-.00101
1.099	5.960	.00000	.20115	.40542	-.20591	-.00618	.00614	-.00107
1.099	8.200	.00000	.19582	.54762	-.25774	-.00476	.00399	-.00055
1.099	10.420	.00000	.19658	.67689	-.29656	-.00885	.00634	-.00039
	GRADIENT	.00133	-.00150	.06676	-.02564	-.00010	-.00015	-.00012

RUN NO. 57/ 0 RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.251	-12.300	-.02000	.24853	-.94860	.32493	-.00076	.00536	-.00049
1.251	-10.100	-.01000	.25117	-.72897	.22683	-.00184	.00527	-.00035
1.251	-7.730	-.01000	.25599	-.52533	.14443	-.00087	.00498	-.00007
1.251	-5.430	-.02000	.25546	-.34571	.07574	-.00058	.00517	.00037
1.251	-3.160	-.01000	.26122	-.18490	.01604	-.00090	.00433	.00044
1.251	-.880	-.01000	.26364	-.03704	-.03643	-.00086	.00331	.00064
1.251	1.410	-.01000	.26454	.10255	-.08145	.00252	.00017	.00076
1.251	3.630	.00000	.26131	.22978	-.13149	.00296	-.00098	.00092
1.251	5.940	.00000	.25690	.37426	-.18243	.00196	.00003	.00056
1.251	8.190	.00000	.24874	.51247	-.23731	-.00006	.00045	.00038
1.251	10.280	.00000	.24170	.64029	-.27858	-.00235	.00207	.00073
	GRADIENT	.00132	.00006	.06107	-.02152	.00066	-.00084	.00007

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON (RA6015) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 43/ 0 RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.459	-12.290	-.01000	.24558	-.95349	.33003	.00339	.00046	-.00002
1.459	-10.140	-.01000	.25274	-.75769	.24695	.00108	.00197	.00008
1.459	-7.800	.00000	.25173	-.55876	.16273	-.00287	.00357	-.00028
1.459	-5.470	.00000	.24520	-.37808	.09172	-.00167	.00336	.00018
1.459	-3.170	.00000	.24994	-.21156	.02770	-.00033	.00118	.00016
1.459	-.860	.00000	.24781	-.06703	-.02182	-.00172	.00164	-.00006
1.459	1.410	.00000	.24985	.06716	-.06297	-.00207	.00213	.00021
1.459	3.670	.00000	.24725	.19578	-.10546	-.00463	.00260	-.00022
1.459	5.930	.00000	.23602	.32859	-.15139	-.00259	.00187	-.00007
1.459	8.210	.00000	.23072	.46418	-.19769	-.00269	.00158	-.00041
1.459	10.380	.00000	.23024	.59032	-.23881	-.00227	.00146	-.00043
	GRADIENT	.00000	-.00026	.05952	-.01934	-.00058	.00021	-.00004

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON (RA6016) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 78/ 0 RN/L = 6.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.804	-11.290	-.01000	.10627	-.66496	.17751	.00435	.00206	-.00071
.804	-9.340	-.01000	.11674	-.53098	.12545	.00628	.00067	-.00023
.804	-7.160	-.01000	.12042	-.39507	.07570	.00623	.00026	.00029
.804	-5.000	-.01000	.11183	-.26687	.02521	.00580	-.00079	.00032
.804	-2.820	-.01000	.11311	-.13700	-.02349	.00747	-.00141	.00053
.804	-.680	-.01000	.10747	-.01799	-.06554	.00826	-.00264	.00089
.804	1.520	-.01000	.12312	.10891	-.11251	.00951	-.00390	.00156
.804	3.690	.00000	.12699	.23706	-.15191	.00767	-.00380	.00158
.804	5.890	.00000	.11647	.36813	-.19225	.01038	-.00679	.00182
.804	8.040	.00000	.10900	.49261	-.23497	.01112	-.00795	.00065
.804	10.110	.00000	.10914	.57820	-.24796	.00687	-.00497	.00304
	GRADIENT	.00092	.00186	.05773	-.02041	.00027	-.00039	.00016

MSFC TWT 692.OTS+OGIVE FAIRING(POS.2)- PLUME ON (RA6016) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 77/ 0 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.901	-11.550	-.02000	.11894	-.74659	.21370	.00529	.00072	-.00045
.901	-9.570	-.01000	.11844	-.61177	.16336	.00578	-.00002	-.00073
.901	-7.340	-.01000	.12192	-.44764	.09957	.00427	.00064	-.00018
.901	-5.100	-.01000	.12156	-.29798	.04427	.00442	.00074	.00036
.901	-2.910	-.01000	.14326	-.15584	-.01425	.00472	-.00017	.00037
.901	-.760	-.01000	.13943	-.02687	-.06645	.00554	-.00106	-.00007
.901	1.470	-.01000	.13687	.09614	-.10972	.00729	-.00302	.00076
.901	3.670	-.01000	.13393	.21912	-.14835	.00898	-.00472	.00148
.901	5.890	.00000	.13195	.35022	-.18409	.00731	-.00415	.00245
.901	8.070	.00000	.12480	.48461	-.23459	.00857	-.00550	.00209
.901	10.200	.00000	.12021	.59191	-.26133	.00523	-.00473	.00282
	GRADIENT	.00000	-.00139	.05679	-.02027	.00066	-.00071	.00019

RUN NO. 59/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.099	-12.160	.00000	.20420	-.96667	.32772	-.00911	.00944	-.00238
1.099	-10.040	.00000	.20855	-.76317	.24315	-.00958	.00988	-.00175
1.099	-7.710	-.01000	.21546	-.55992	.16121	-.00843	.00936	-.00102
1.099	-5.400	-.01000	.22280	-.37221	.08839	-.00649	.00778	-.00037
1.099	-3.100	-.01000	.22425	-.18908	.01532	-.00562	.00678	.00020
1.099	-.810	-.01000	.21627	-.01991	-.05132	-.00446	.00547	.00034
1.099	1.440	.00000	.21727	.12770	-.11214	-.00543	.00577	-.00049
1.099	3.690	.00000	.21460	.26139	-.15756	-.00560	.00571	-.00086
1.099	5.970	.00000	.20546	.41193	-.20618	-.00607	.00618	-.00120
1.099	8.210	.00000	.19798	.55491	-.26237	-.00584	.00612	-.00104
1.099	10.410	.00000	.19179	.67888	-.29719	-.00656	.00699	-.00084
	GRADIENT	.00177	-.00124	.06628	-.02562	-.00004	-.00013	-.00018

MSFC TWT 692.OTS+OGIVE FAIRING(POS.2)- PLUME ON (RA6016) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 60/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.250	-12.220	-.01000	.24940	-.93887	.32511	-.00396	.00723	-.00119
1.250	-10.080	-.01000	.25332	-.72463	.22798	-.00366	.00623	-.00024
1.250	-7.730	-.01000	.25608	-.52680	.14842	-.00255	.00575	.00025
1.250	-5.440	-.01000	.26351	-.34217	.07784	-.00151	.00539	.00103
1.250	-3.120	-.01000	.26645	-.17594	.01576	-.00002	.00337	.00108
1.250	-.820	-.01000	.26961	-.02477	-.03843	.00009	.00199	.00104
1.250	1.430	-.01000	.26960	.11076	-.08216	.00159	.00084	.00120
1.250	3.690	-.01000	.26562	.23701	-.13055	.00274	-.00032	.00131
1.250	5.960	-.01000	.25999	.37928	-.18056	.00219	.00044	.00091
1.250	8.200	.00000	.24928	.51539	-.23484	-.00019	.00175	.00025
1.250	10.420	-.01000	.23912	.64574	-.27538	.00062	.00141	.00062
	GRADIENT	.00000	-.00011	.06061	-.02128	.00043	-.00054	.00004

RUN NO. 42/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.460	-12.260	-.01000	.24385	-.93277	.31860	.00683	-.00262	.00016
1.460	-10.110	-.01000	.25020	-.73957	.23625	.00256	.00032	-.00014
1.460	-7.650	.00000	.24590	-.53464	.14992	-.00150	.00239	-.00016
1.460	-5.440	.00000	.25551	-.36319	.08364	.00039	.00152	.00044
1.460	-3.140	.00000	.25288	-.20019	.02275	.00128	-.00002	.00062
1.460	-.850	.00000	.25526	-.05463	-.02636	-.00042	.00075	.00033
1.460	1.450	.00000	.25398	.07884	-.06705	-.00132	.00138	.00029
1.460	3.680	.00000	.25328	.20420	-.10689	-.00339	.00184	.00004
1.460	5.960	.00000	.24245	.33573	-.15247	-.00220	.00099	-.00001
1.460	8.240	.00000	.23672	.47389	-.19978	-.00215	.00042	.00015
1.460	10.420	.00000	.23327	.60264	-.24268	-.00132	.00006	.00009
	GRADIENT	.00000	-.00000	.05918	-.01888	-.00065	.00027	-.00008

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON (RA6017) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 79/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.802	-11.270	-.01000	.10707	-.66064	.17573	.00454	.00265	.00058
.802	-9.320	-.01000	.11614	-.52692	.12411	.00535	.00177	.00095
.802	-7.150	-.01000	.12329	-.38947	.07226	.00472	.00155	.00107
.802	-4.990	-.01000	.12404	-.26033	.02137	.00595	-.00053	.00107
.802	-2.840	-.01000	.12818	-.13668	-.02558	.01058	-.00327	.00129
.802	-.650	-.01000	.13238	-.00806	-.07295	.00850	-.00295	.00118
.802	1.510	-.01000	.12968	.11129	-.11270	-.00872	-.00362	.00146
.802	3.680	.00000	.12209	.24093	-.15236	.00726	-.00383	.00191
.802	5.880	.00000	.11337	.37043	-.19259	.00730	-.00456	.00163
.802	8.040	.00000	.10644	.49635	-.23632	.01135	-.00750	.00085
.802	10.140	.00000	.10832	.57878	-.24743	.00672	-.00464	.00301
	GRADIENT	.00092	-.00011	.05765	-.02004	.00003	-.00032	.00009

RUN NO. 80/ 0 RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.902	-11.590	-.02000	.11873	-.76427	.22270	.00571	.00065	.00015
.902	-9.580	-.02000	.13257	-.61744	.16726	.00438	.00284	.00034
.902	-7.340	-.02000	.14159	-.45331	.10432	.00607	.00032	.00099
.902	-5.120	-.02000	.13422	-.30076	.04688	.00839	-.00166	.00145
.902	-2.940	-.01000	.14077	-.15773	-.01075	.00550	-.00001	.00113
.902	-.730	-.01000	.14042	-.02619	-.06492	.00706	-.00184	.00035
.902	1.440	-.01000	.13875	.09662	-.10792	.01035	-.00501	.00150
.902	3.630	.00000	.13972	.21972	-.14659	.00718	-.00349	.00158
.902	5.880	.00000	.13211	.35284	-.18343	.00951	-.00566	.00288
.902	8.040	.00000	.12690	.48533	-.23369	.01169	-.00809	.00258
.902	10.180	.00000	.12317	.59237	-.25981	.00524	-.00518	.00266
	GRADIENT	.00137	-.00022	.05737	-.02059	.00038	-.00062	.00011

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON (RA6017) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 62/ 0 RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.101	-12.200	.00000	.21106	-.94737	.31533	-.00661	.00717	-.00216
1.101	-10.090	-.01000	.21495	-.75015	.23395	-.00690	.00761	-.00149
1.101	-7.770	-.01000	.22443	-.55278	.15604	-.00654	.00768	-.00041
1.101	-5.460	.00000	.23089	-.36167	.08180	-.00324	.00455	.00018
1.101	-3.160	.00000	.22751	-.18037	.01033	.00084	.00064	.00073
1.101	-.870	.00000	.22781	-.04364	-.05557	-.00078	.00159	.00080
1.101	1.350	.00000	.22294	.12400	-.10686	-.00229	.00324	.00024
1.101	3.610	.00000	.21423	.25947	-.15441	-.00365	.00371	-.00044
1.101	5.910	.00000	.21245	.40786	-.20197	-.00518	.00458	-.00081
1.101	8.150	.00000	.20301	.55066	-.25987	-.00423	.00340	-.00036
1.101	10.360	.00000	.19316	.67364	-.29373	-.00773	.00557	-.00061
	GRADIENT	.00000	-.00198	.06469	-.02422	-.00066	.00048	-.00018

RUN NO. 61/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.251	-12.210	-.01000	.25111	-.91510	.30811	.00100	.00241	.00025
1.251	-10.080	-.01000	.25818	-.71047	.21807	-.00063	.00397	.00038
1.251	-7.760	-.01000	.26296	-.50826	.13866	-.00024	.00396	.00096
1.251	-5.450	-.01000	.26698	-.33198	.07390	.00555	-.00107	.00163
1.251	-3.130	-.01000	.27255	-.16351	.00972	.00600	-.00219	.00184
1.251	-.830	-.01000	.27440	-.01419	-.04328	.00505	-.00220	.00175
1.251	1.410	.00000	.27636	.12210	-.08680	.00619	-.00334	.00172
1.251	3.660	.00000	.27138	.24444	-.13295	.00587	-.00339	.00176
1.251	5.920	.00000	.26499	.38411	-.18161	.00501	-.00288	.00136
1.251	8.170	.00000	.25373	.51790	-.23490	.00627	-.00414	.00115
1.251	10.400	.00000	.24269	.64846	-.27637	.00360	-.00245	.00148
	GRADIENT	.00177	-.00007	.06017	-.02086	.00003	-.00021	-.00001

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON (RA6017) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 41/ O RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.459	-12.220	-.01000	.25079	-.91297	.30506	.00716	-.00354	.00051
1.459	-10.070	.00000	.25132	-.71570	.22157	.00442	-.00191	.00038
1.459	-7.740	.00000	.24549	-.50860	.13473	.00146	-.00074	.00022
1.459	-5.410	.00000	.25867	-.33800	.06803	.00264	-.00077	.00062
1.459	-3.110	.00000	.25858	-.17282	.00612	.00207	-.00092	.00063
1.459	-.830	.00000	.26172	-.03005	-.04101	.00104	-.00098	.00055
1.459	1.470	.00000	.26066	.10078	-.07840	.00005	.00005	.00032
1.459	3.730	.00000	.25668	.22563	-.11780	-.00119	-.00038	.00038
1.459	5.980	.00000	.24815	.35199	-.15978	-.00061	-.00101	.00012
1.459	8.250	.01000	.24058	.48849	-.20703	-.00239	-.00044	.00010
1.459	10.430	.00000	.23927	.61234	-.24647	-.00088	-.00124	.00022
	GRADIENT	.00000	-.00030	.05812	-.01793	-.00047	.00012	-.00004

MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON (RA6018) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 66/ O RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.802	-11.300	-.01000	.10456	-.67467	.18026	.00125	.00402	-.00003
.802	-9.370	-.01000	.11098	-.54284	.13015	.00412	.00196	.00050
.802	-7.200	-.01000	.12555	-.40101	.07619	.00682	-.00026	.00122
.802	-5.030	-.02000	.12172	-.26866	.02521	.01122	-.00328	.00165
.802	-2.880	-.02000	.12485	-.14373	-.02405	.01245	-.00425	.00158
.802	-.720	-.01000	.12753	-.02438	-.06608	.01428	-.00640	.00199
.802	1.460	-.01000	.12068	.09495	-.10695	.01555	-.00832	.00250
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
.802	5.910	-.01000	.11660	.36078	-.18992	.02002	-.01246	.00325
.802	8.000	-.01000	.10895	.48080	-.23020	.01781	-.01128	.00251
.802	10.070	-.01000	.10508	.56950	-.24619	.01750	-.01104	.00439
	GRADIENT	.00138	-.00113	.05630	-.01880	.00083	-.00089	.00027

MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON (RA6018) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 65/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
.901	-11.600	-.02000	.12770	-.77139	.22372	.00758	-.00117	-.00027
.901	-9.620	-.01000	.13939	-.62768	.17018	.00007	.00485	.00049
.901	-7.370	-.01000	.13284	-.46407	.10672	.00179	.00360	.00123
.901	-5.150	-.02000	.13390	-.30896	.04747	.00535	.00075	.00204
.901	-2.950	-.01000	.13870	-.16414	-.01057	.00713	-.00161	.00178
.901	-.780	-.01000	.13357	-.03409	-.06371	.01134	-.00550	.00112
.901	1.400	-.01000	.13482	.08958	-.10957	.01340	-.00725	.00167
.901	3.600	-.01000	.13328	.21060	-.14633	.01100	-.00548	.00214
.901	5.840	-.01000	.12986	.34364	-.18415	.01562	-.00832	.00366
.901	8.030	-.01000	.12169	.48116	-.23278	.01467	-.00888	.00283
.901	10.160	.00000	.11587	.58957	-.26203	.01050	-.00777	.00340
	GRADIENT	-.00000	-.00069	.05716	-.02075	.00062	-.00061	.00007

RUN NO. 63/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.101	-12.150	.00000	.20164	-.96936	.32990	-.01186	.01128	-.00308
1.101	-10.070	.00000	.20700	-.77944	.25135	-.01029	.01022	-.00254
1.101	-7.720	.00000	.21271	-.56997	.16541	-.00713	.00802	-.00161
1.101	-5.410	-.01000	.22348	-.37948	.09203	-.00549	.00716	-.00076
1.101	-3.110	.00000	.22251	-.19690	.01771	-.00565	.00626	.00009
1.101	-.830	.00000	.22333	-.02519	-.05142	-.00530	.00570	.00025
1.101	1.430	-.01000	.21513	.11806	-.10603	-.00400	.00511	-.00018
1.101	3.640	.00000	.21317	.25274	-.15466	-.00369	.00406	-.00056
1.101	5.940	.00000	.20667	.40499	-.20465	-.00288	.00347	-.00066
1.101	8.170	.00000	.19615	.54801	-.26052	-.00179	.00247	-.00046
1.101	10.360	.00000	.19223	.67332	-.29761	-.00357	.00347	-.00010
	GRADIENT	-.00045	-.00161	.06631	-.02541	.00032	-.00032	-.00011

MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON (RA6018) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 64/ 0 RN/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.252	-12.200	-.01000	.24452	-.93904	.32345	-.00926	.00977	-.00221
1.252	-10.090	-.01000	.24937	-.73944	.23500	-.00651	.00815	-.00122
1.252	-7.740	-.01000	.25405	-.53454	.15350	-.00458	.00674	-.00069
1.252	-5.430	-.01000	.26154	-.35371	.08348	-.00283	.00592	.00011
1.252	-3.130	-.01000	.26386	-.18986	.02237	-.00175	.00421	.00051
1.252	-.860	.00000	.26743	-.04067	-.03077	-.00126	.00294	.00089
1.252	1.410	.00000	.26786	.09921	-.07668	.00010	.00148	.00109
1.252	3.630	.00000	.26346	.22756	-.12832	.00146	.00040	.00100
1.252	5.920	.00000	.25803	.37151	-.17909	.00270	-.00099	.00109
1.252	8.170	.00000	.24837	.50616	-.23203	.00318	-.00187	.00092
1.252	10.360	.00000	.23696	.63778	-.27467	.00257	-.00097	.00111
	GRADIENT	.00133	-.00003	.06174	-.02208	.00049	-.00057	.00007

RUN NO. 47/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAF	CNF	CLMF	CY	CYNF	CBL
1.460	-12.240	-.01000	.24141	-.93111	.31540	.00178	.00047	-.00058
1.460	-10.120	.00000	.24655	-.74536	.23888	.00246	-.00038	.00004
1.460	-7.780	.00000	.24569	-.54326	.15372	.00042	.00017	.00009
1.460	-5.460	.00000	.25074	-.37141	.08892	.00257	-.00052	.00075
1.460	-3.160	.00000	.24995	-.20806	.02884	.00250	-.00120	.00065
1.460	-.880	.00000	.25010	-.06836	-.01787	.00139	-.00056	.00056
1.460	1.420	.00000	.24993	.06530	-.05891	-.00098	.00094	-.00005
1.460	3.670	.00000	.24794	.19049	-.09907	-.00440	.00256	-.00057
1.460	5.910	.00000	.24178	.32147	-.14432	-.00162	.00102	-.00022
1.460	8.180	.00000	.23150	.45875	-.19276	-.00236	.00116	-.00029
1.460	10.360	.00000	.23032	.58732	-.23478	-.00165	.00113	-.00009
	GRADIENT	.00000	-.00027	.05833	-.01864	-.00101	.00056	-.00019

DATE 08 MAY 84 TABULATED SOURCE AND INCREMENTAL DATA - FA301 (MSFC 14TWT-692)

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (SA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 81/ O RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.601	-10.880	-.01000	.24341	-.60086	.17175	.01062	-.00308	.00082
.601	-8.950	-.01000	.24770	-.48083	.12557	.01233	-.00456	.00106
.601	-6.860	-.01000	.24942	-.35584	.07781	.01214	-.00528	.00105
.601	-4.760	-.01000	.24993	-.24250	.03530	.01175	-.00525	.00129
.601	-2.680	.00000	.24827	-.12720	-.00891	.01178	-.00590	.00142
.601	-.570	.00000	.24583	-.01635	-.04799	.01060	-.00541	.00122
.601	1.540	.00000	.24330	.09609	-.08634	.01555	-.00858	.00270
.601	3.650	.00000	.23860	.21307	-.12263	.01161	-.00665	.00276
.601	5.780	.00000	.23299	.33280	-.16257	.01031	-.00698	.00320
.601	7.870	.00000	.22420	.45146	-.20470	.01198	-.00827	.00379
.601	9.900	.00000	.21210	.56620	-.25183	.01135	-.00907	.00339
	GRADIENT	.00095	-.00131	.05392	-.01869	.00017	-.00026	.00020

RUN NO. 1/ O RN/L = 5.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.801	-11.230	-.02000	.26994	-.67502	.19426	.01912	-.00863	.00188
.801	-9.320	-.02000	.27122	-.54167	.14274	.01915	-.00962	.00238
.801	-7.160	-.02000	.26958	-.39977	.08875	.01751	-.00867	.00244
.801	-5.020	-.01000	.26927	-.27226	.03950	.01795	-.00930	.00266
.801	-2.840	-.01000	.26668	-.14024	-.01288	.01761	-.00966	.00227
.801	-.700	-.01000	.26238	-.01793	-.05784	.01435	-.00811	.00189
.801	1.520	-.01000	.26150	.10963	-.10425	.01310	-.00793	.00206
.801	3.710	.00000	.25755	.23915	-.14487	.01355	-.00899	.00269
.801	5.910	.00000	.25542	.37349	-.18805	.01460	-.01079	.00263
.801	8.060	.00000	.24925	.49507	-.22788	.01058	-.00809	.00194
.801	9.980	.00000	.24765	.58113	-.24569	.00733	-.00603	.00235
	GRADIENT	.00137	-.00129	.05788	-.02023	-.00061	.00010	.00007

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (SA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALF = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 2/ O RN/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.901	-11.630	-.03000	.31079	-.78091	.24721	.01251	-.00137	-.00146
.901	-9.600	-.03000	.31272	-.63329	.19079	.01072	-.00035	-.00186
.901	-7.380	-.02000	.30568	-.46890	.12797	.01180	-.00289	.00037
.901	-5.140	-.02000	.29986	-.31514	.06876	.01134	-.00395	.00076
.901	-2.940	-.01000	.29583	-.17095	.01042	.01238	-.00522	.00111
.901	-.770	-.01000	.29482	-.03612	-.04700	.01125	-.00458	-.00012
.901	1.430	-.01000	.29183	.09080	-.09553	.01243	-.00597	.00097
.901	3.610	-.01000	.29087	.21920	-.13880	.01090	-.00576	.00115
.901	5.820	.00000	.29498	.35307	-.17937	.00882	-.00575	.00190
.901	8.040	.00000	.28691	.49441	-.23171	.00884	-.00594	.00118
.901	10.140	.00000	.28235	.60877	-.26710	.00494	-.00498	.00173
	GRADIENT	.00000	-.00082	.05937	-.02271	-.00015	-.00014	.00006

RUN NO. 82/ O RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.950	-11.770	-.03000	.33690	-.81278	.26929	.01293	-.00256	-.00030
.950	-9.770	-.02000	.34942	-.66028	.20457	.01303	-.00402	.00029
.950	-7.500	-.02000	.34248	-.48488	.13801	.01051	-.00242	-.00040
.950	-5.270	-.02000	.34098	-.33546	.08184	.00931	-.00192	-.00034
.950	-3.050	-.02000	.33887	-.18715	.02579	.01033	-.00312	-.00001
.950	-.810	-.01000	.33699	-.04938	-.02491	.01030	-.00388	.00030
.950	1.370	-.01000	.32805	.08453	-.08330	.00966	-.00391	.00101
.950	3.570	-.01000	.32768	.21551	-.13067	.00678	-.00304	.00087
.950	5.780	-.01000	.32493	.35548	-.18574	.00934	-.00523	.00096
.950	8.010	.00000	.31937	.49800	-.23352	.01260	-.00882	.00138
.950	10.170	.00000	.31380	.62729	-.27576	.00827	-.00719	.00141
	GRADIENT	.00137	-.00193	.06089	-.02394	-.00051	.00001	.00015

DATE 08 MAY 84 TABULATED SOURCE AND INCREMENTAL DATA - FA301 (MSFC 14TWT-692)

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (SA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 83/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.050	-12.030	.00000	.40271	-.82423	.25473	-.00239	.00414	-.00084
1.050	-9.940	.00000	.41100	-.66216	.19248	-.00081	.00230	-.00048
1.050	-7.620	.00000	.40254	-.46994	.12021	.00024	.00184	-.00013
1.050	-5.320	.00000	.40119	-.29928	.06008	-.00005	.00224	-.00002
1.050	-3.070	.00000	.40018	-.14849	.00825	-.00096	.00275	-.00006
1.050	-.780	.00000	.40038	-.00558	-.03699	-.00110	.00216	-.00022
1.050	1.430	.00000	.40321	.12549	-.08581	-.00270	.00297	-.00084
1.050	3.650	.00000	.40372	.25476	-.13255	-.00684	.00443	-.00148
1.050	5.910	.00000	.40095	.39651	-.17771	-.00583	.00320	-.00190
1.050	8.140	.00000	.39102	.53341	-.22840	-.00250	.00044	-.00125
1.050	10.310	.01000	.37863	.65985	-.27218	-.00546	.00189	-.00056
	GRADIENT	.00000	.00060	.05995	-.02106	-.00086	.00026	-.00022

RUN NO. 3/ 0 RN/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.100	-12.250	-.02000	.46168	-.94785	.32922	.00241	.00268	.00010
1.100	-10.110	-.01000	.46612	-.75979	.25651	.00399	.00081	.00004
1.100	-7.800	-.01000	.46604	-.56494	.18345	.00494	-.00024	.00073
1.100	-5.480	-.01000	.46391	-.37380	.11032	.00451	.00026	.00085
1.100	-3.170	-.01000	.46124	-.19426	.03893	.00371	.00027	.00086
1.100	-.910	.00000	.46011	-.03323	-.02081	.00229	.00024	.00077
1.100	1.370	.00000	.45572	.11755	-.08214	.00105	.00055	.00065
1.100	3.580	.00000	.45470	.25632	-.13401	-.00020	.00140	-.00023
1.100	5.830	.00000	.45380	.40808	-.18851	-.00195	.00111	-.00040
1.100	8.110	.00000	.44388	.55571	-.24898	-.00268	.00105	-.00023
1.100	10.260	.01000	.43892	.69120	-.29424	-.00488	.00039	.00088
	GRADIENT	.00133	-.00107	.06670	-.02575	-.00058	.00016	-.00015

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (SA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 84/ O RN/L = 6.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.153	-12.360	-.02000	.48666	-.97766	.34534	-.00149	.00743	-.00037
1.153	-10.180	-.03000	.49207	-.77711	.26594	.00073	.00607	-.00038
1.153	-7.840	-.03000	.48948	-.55529	.17600	.00365	.00397	.00058
1.153	-5.520	-.03000	.49535	-.36537	.10240	.00675	.00220	.00184
1.153	-3.250	-.03000	.49030	-.19113	.03294	.00383	.00390	.00182
1.153	-.930	-.02000	.48888	-.02856	-.02986	.00166	.00425	.00135
1.153	1.330	-.02000	.48500	.11415	-.08199	-.00020	.00553	.00100
1.153	3.560	-.01000	.47844	.25000	-.13376	-.00266	.00626	.00049
1.153	5.850	-.01000	.47802	.40377	-.19074	-.00257	.00482	.00018
1.153	8.060	-.01000	.47445	.55370	-.25646	-.00208	.00411	.00016
1.153	10.280	-.01000	.46262	.69803	-.30605	-.00314	.00501	-.00004
	GRADIENT	.00265	-.00173	.06463	-.02435	-.00094	.00037	-.00019

RUN NO. 4/ O RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.251	-12.250	-.02000	.45770	-.92368	.32865	.00481	.00167	.00060
1.251	-10.170	-.02000	.45456	-.72284	.24300	.00424	.00125	.00060
1.251	-7.830	-.02000	.46063	-.52736	.16783	.00579	-.00027	.00110
1.251	-5.510	-.02000	.46953	-.34648	.10062	.00650	-.00027	.00152
1.251	-3.220	-.01000	.47492	-.18441	.04137	.00641	-.00135	.00179
1.251	-.940	-.01000	.47456	-.03327	-.01386	.00503	-.00126	.00147
1.251	1.360	-.01000	.47513	.10976	-.06152	.00487	-.00194	.00151
1.251	3.580	.00000	.47055	.23640	-.11226	.00390	-.00195	.00154
1.251	5.830	.00000	.46595	.37859	-.16666	.00096	-.00048	.00134
1.251	8.100	.00000	.45663	.52232	-.22718	.00092	-.00151	.00113
1.251	10.230	.01000	.44796	.65389	-.27265	.00150	-.00372	.00172
	GRADIENT	.00131	-.00055	.06193	-.02240	-.00034	-.00011	-.00003

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (SA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 34/ O RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.460	-12.360	.00000	.45837	-.94860	.34521	.00323	-.00161	.00104
1.460	-10.240	.00000	.45963	-.76149	.26788	.00150	-.00042	.00101
1.460	-7.900	.00000	.46131	-.56597	.19062	.00009	-.00011	.00136
1.460	-5.570	.00000	.45944	-.38787	.12290	.00270	-.00126	.00161
1.460	-3.240	.00000	.45549	-.21823	.05831	.00492	-.00292	.00217
1.460	-.960	.00000	.45395	-.06237	.00014	.00424	-.00295	.00214
1.460	1.350	.00000	.45548	.08652	-.05299	.00417	-.00249	.00223
1.460	3.600	.00000	.45347	.21935	-.09908	.00405	-.00328	.00190
1.460	5.850	.00000	.45068	.34945	-.14582	.00338	-.00255	.00156
1.460	8.120	.00000	.44486	.48969	-.19748	.00231	-.00152	.00171
1.460	10.290	.00000	.44243	.62337	-.24478	.00403	-.00292	.00218
	GRADIENT	.00000	-.00020	.06403	-.02301	-.00012	-.00003	-.00003

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF (SA6002) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 8/ O RN/L = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.801	-11.310	-.01000	.26508	-.67717	.19447	.01475	-.00678	.00130
.801	-9.340	-.01000	.26595	-.54205	.14195	.01732	-.00865	.00188
.801	-7.180	-.02000	.26429	-.39932	.08815	.01847	-.00916	.00254
.801	-4.990	-.01000	.26387	-.26924	.03718	.01815	-.00973	.00264
.801	-2.840	-.01000	.26171	-.14329	-.01258	.01765	-.00964	.00234
.801	-.680	-.01000	.25940	-.01712	-.05911	.01717	-.00969	.00232
.801	1.500	-.01000	.25676	.10536	-.10297	.01807	-.01075	.00291
.801	3.680	-.01000	.25380	.23247	-.14342	.01718	-.01110	.00326
.801	5.880	.00000	.25095	.36580	-.18667	.01706	-.01145	.00315
.801	8.030	.00000	.24311	.49363	-.23162	.01650	-.01185	.00193
.801	10.090	.00000	.24162	.58516	-.24992	.01190	-.00891	.00375
	GRADIENT	.00000	-.00116	.05775	-.02083	-.00007	-.00018	.00008

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF (SA6002) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 7/ 0 RN/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.900	-11.600	-.02000	.30343	-.76992	.23952	.01015	-.00181	-.00115
.900	-9.610	-.02000	.31268	-.63334	.19158	.00983	-.00165	-.00168
.900	-7.350	-.01000	.29931	-.46693	.12676	.01047	-.00377	.00075
.900	-5.150	-.01000	.29454	-.31236	.06714	.01112	-.00438	.00116
.900	-2.960	-.01000	.29133	-.16858	.00849	.01258	-.00575	.00155
.900	-.760	-.01000	.28849	-.03133	-.05140	.01204	-.00579	.00062
.900	1.460	-.01000	.28823	.09572	-.09907	.01296	-.00668	.00163
.900	3.640	-.01000	.28919	.22507	-.14244	.01174	-.00662	.00154
.900	5.870	-.01000	.29180	.35702	-.18182	.01160	-.00706	.00235
.900	8.040	.00000	.28241	.49628	-.23486	.01259	-.00829	.00220
.900	10.140	.00000	.27631	.61177	-.26849	.00861	-.00704	.00272
	GRADIENT	-.00000	-.00030	.05940	-.02273	-.00007	-.00016	.00004

RUN NO. 6/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.101	-12.210	-.01000	.45328	-.95876	.33923	-.00354	.00564	-.00104
1.101	-10.110	-.01000	.45709	-.77539	.26884	-.00061	.00335	-.00088
1.101	-7.790	-.01000	.45897	-.57611	.19159	-.00021	.00295	-.00031
1.101	-5.460	-.01000	.45464	-.38559	.11744	-.00019	.00265	-.00004
1.101	-3.180	-.01000	.45429	-.21042	.04917	.00040	.00230	.00032
1.101	-.900	.00000	.45109	-.04159	-.01890	.00107	.00121	.00053
1.101	1.350	.00000	.45265	.10619	-.07728	.00228	.00024	.00076
1.101	3.590	.00000	.44934	.24861	-.13226	.00130	.00086	.00001
1.101	5.860	.00000	.44813	.39954	-.18580	.00078	.00098	.00005
1.101	8.060	.00000	.44076	.54513	-.24316	.00027	.00117	.00009
1.101	10.230	.00000	.43387	.68134	-.29103	-.00073	.00104	.00090
	GRADIENT	.00133	-.00059	.06760	-.02672	.00017	-.00024	-.00003

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF (SA6002) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 5/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.251	-12.320	-.01000	.45240	-.94555	.34364	.00022	.00376	-.00071
1.251	-10.180	-.02000	.45447	-.74340	.25730	.00090	.00374	-.00027
1.251	-7.840	-.02000	.45996	-.54337	.17910	.00114	.00325	.00020
1.251	-5.540	-.02000	.46599	-.36342	.11100	.00181	.00291	.00039
1.251	-3.250	-.01000	.46914	-.19733	.04845	.00254	.00156	.00074
1.251	-.950	-.01000	.46973	-.04491	-.00776	.00364	.00019	.00104
1.251	1.320	-.01000	.46911	.10194	-.06058	.00289	.00055	.00119
1.251	3.560	-.01000	.46258	.23201	-.11455	.00457	-.00149	.00146
1.251	5.820	-.01000	.46033	.37513	-.16843	.00367	-.00062	.00167
1.251	8.020	.00000	.45016	.51495	-.22711	.00350	-.00120	.00106
1.251	10.200	-.01000	.44149	.64593	-.27133	.00491	-.00181	.00102
	GRADIENT	-.00000	-.00089	.06322	-.02387	.00023	-.00039	.00010

RUN NO. 35/ 0 RN/L = 6.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.461	-12.360	.00000	.45447	-.96804	.36022	-.00185	.00310	-.00004
1.461	-10.250	.00000	.45915	-.78343	.28229	-.00219	.00320	.00015
1.461	-7.910	.00000	.46088	-.58568	.20299	-.00274	.00273	.00047
1.461	-5.590	.00000	.45777	-.40659	.13438	-.00065	.00155	.00060
1.461	-3.260	.00000	.45557	-.23815	.07040	.00108	-.00014	.00081
1.461	-.970	.00000	.45379	-.08388	.01377	-.00005	.00042	.00076
1.461	1.310	.00000	.45054	.06416	-.03965	-.00031	.00105	.00111
1.461	3.580	.00000	.44791	.19954	-.08853	.00009	-.00034	.00111
1.461	5.830	.00000	.44656	.33254	-.13704	.00067	-.00021	.00088
1.461	8.100	.00000	.44157	.47200	-.18853	-.00073	.00030	.00099
1.461	10.270	.00000	.43538	.60497	-.23693	.00192	-.00081	.00103
	GRADIENT	.00000	-.00115	.06409	-.02326	-.00014	.00000	.00005

MSFC TWT 692.OTS + 10 DEG.RAMP(POS.2)- PLUME OFF (SA6003) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 9/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.801	-11.310	-.02000	.26482	-.67829	.19497	.01593	-.00690	.00142
.801	-9.330	-.02000	.26623	-.53970	.14104	.01737	-.00815	.00194
.801	-7.170	-.01000	.26489	-.40076	.08827	.01648	-.00810	.00232
.801	-5.000	-.01000	.26444	-.27092	.03794	.01722	-.00866	.00228
.801	-2.860	-.01000	.26244	-.14219	-.01319	.01836	-.01000	.00229
.801	-.680	-.01000	.26052	-.01340	-.06091	.01613	-.00890	.00203
.801	1.520	-.01000	.25647	.10865	-.10432	.01734	-.01017	.00287
.801	3.680	-.01000	.25470	.23859	-.14519	.01893	-.01172	.00364
.801	5.880	-.01000	.25335	.36831	-.18697	.01911	-.01267	.00348
.801	8.030	.00000	.24574	.49024	-.22749	.01364	-.00954	.00241
.801	10.090	.00000	.24282	.58788	-.25092	.01303	-.00924	.00396
	GRADIENT	.00000	-.00117	.05841	-.02104	.00011	-.00029	.00015

RUN NO. 10/ 0 RN/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.901	-11.610	-.02000	.30670	-.77228	.24153	.01008	-.00119	-.00112
.901	-9.600	-.02000	.30899	-.62996	.18929	.01106	-.00171	-.00146
.901	-7.370	-.02000	.29997	-.46478	.12586	.01243	-.00419	.00103
.901	-5.140	-.02000	.29588	-.31389	.06761	.01271	-.00529	.00117
.901	-2.940	-.02000	.29324	-.17062	.00929	.01516	-.00706	.00188
.901	-.750	-.02000	.28804	-.03175	-.05212	.01496	-.00716	.00110
.901	1.460	-.01000	.28796	.09533	-.09899	.01604	-.00854	.00197
.901	3.630	-.01000	.28784	.22274	-.14256	.01465	-.00821	.00189
.901	5.870	-.01000	.29261	.35692	-.18257	.01483	-.00859	.00278
.901	8.040	-.01000	.28327	.49733	-.23556	.01449	-.00928	.00257
.901	10.140	.00000	.27951	.61303	-.26931	.01182	-.00836	.00314
	GRADIENT	.00183	-.00074	.05963	-.02292	-.00002	-.00022	.00004

MSFC TWT 692.OTS + 10 DEG.RAMP(POS.2)- PLUME OFF (SA6003) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 11/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.100	-12.230	-.01000	.46093	-.95511	.33686	-.00359	.00545	-.00067
1.100	-10.110	-.01000	.46203	-.76799	.26325	-.00144	.00373	-.00043
1.100	-7.800	-.01000	.45846	-.56875	.18469	-.00098	.00382	-.00013
1.100	-5.440	-.01000	.45521	-.37641	.11140	.00067	.00200	.00038
1.100	-3.170	-.01000	.45449	-.19701	.03934	.00078	.00190	.00066
1.100	-.890	.00000	.45303	-.03285	-.02314	.00047	.00116	.00070
1.100	1.370	.00000	.45584	.11593	-.08099	.00100	.00045	.00089
1.100	3.600	.00000	.45051	.25716	-.13732	.00050	.00128	.00004
1.100	5.890	.00000	.44976	.40449	-.18648	-.00133	.00299	-.00019
1.100	8.110	.00000	.44382	.54991	-.24524	-.00042	.00203	.00006
1.100	10.260	.00000	.43145	.68950	-.29499	-.00306	.00338	.00045
	GRADIENT	.00133	-.00040	.06697	-.02605	-.00001	-.00011	-.00007

RUN NO. 12/ 0 RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.250	-12.280	-.01000	.45451	-.94125	.34037	-.00180	.00472	-.00044
1.250	-10.150	-.01000	.45658	-.73733	.25372	.00129	.00255	.00007
1.250	-7.830	-.01000	.46118	-.53652	.17413	.00275	.00128	.00047
1.250	-5.490	-.02000	.46621	-.35309	.10515	.00436	.00091	.00078
1.250	-3.110	-.01000	.46956	-.18173	.04045	.00495	-.00062	.00135
1.250	-.920	-.01000	.47081	-.03498	-.01305	.00511	-.00166	.00140
1.250	1.380	.00000	.47071	.11147	-.06451	.00421	-.00154	.00142
1.250	3.590	.00000	.46254	.23845	-.11754	.00508	-.00253	.00159
1.250	5.880	.00000	.46004	.38277	-.17127	.00413	-.00140	.00144
1.250	8.090	.00000	.44992	.52297	-.23093	.00410	-.00169	.00102
1.250	10.260	.00000	.44111	.65510	-.27450	.00481	-.00230	.00116
	GRADIENT	.00179	-.00094	.06281	-.02345	-.00002	-.00025	.00003

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF (SA6003) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 36/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.459	-12.390	-.01000	.45775	-.96710	.35922	.00131	.00149	.00007
1.459	-10.240	-.01000	.45807	-.77670	.27967	-.00053	.00273	.00035
1.459	-7.910	.00000	.46084	-.58201	.20139	-.00152	.00231	.00068
1.459	-5.580	.00000	.45881	-.40248	.13304	.00166	.00007	.00096
1.459	-3.270	.00000	.45665	-.23290	.06817	.00253	-.00083	.00114
1.459	-.970	.00000	.45681	-.07778	.01098	.00213	-.00062	.00101
1.459	1.310	.00000	.45357	.06640	-.03943	.00077	.00027	.00115
1.459	3.570	.00000	.45177	.20200	-.08810	.00068	-.00077	.00102
1.459	5.840	.00000	.44762	.33561	-.13815	.00005	-.00033	.00069
1.459	8.100	.00000	.44234	.47631	-.19091	-.00166	.00108	.00061
1.459	10.280	.00000	.43549	.60971	-.23937	.00117	-.00028	.00072
	GRADIENT	.00000	-.00078	.06355	-.02278	-.00030	.00005	-.00001

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF (SA6004) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 16/ 0 RN/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.800	-11.320	-.01000	.26424	-.67310	.19256	.01288	-.00575	.00112
.800	-9.340	-.01000	.26643	-.53982	.14125	.01486	-.00720	.00130
.800	-7.150	-.01000	.26467	-.39435	.08565	.01453	-.00695	.00156
.800	-4.990	-.01000	.26403	-.26558	.03501	.01290	-.00641	.00128
.800	-2.840	-.01000	.26275	-.14105	-.01276	.01444	-.00751	.00154
.800	-.680	-.01000	.25972	-.01522	-.05937	.01617	-.00852	.00217
.800	1.500	-.01000	.25654	.10465	-.10079	.01479	-.00851	.00242
.800	3.670	-.01000	.25459	.23726	-.14364	.01596	-.01022	.00302
.800	5.870	.00000	.25203	.36839	-.18661	.01440	-.01009	.00245
.800	8.020	.00000	.24738	.49407	-.22823	[illegible]	[illegible]	[illegible]
.800	10.120	.00000	.24344	.59159	-.25116	.01140	-.00828	.00370
	GRADIENT	.00000	-.00116	.05777	-.02056	.00030	-.00040	.00020

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF (SA6004) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 15/ 0 RN/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.900	-11.600	-.02000	.30158	-.76134	.23470	.01173	-.00359	-.00002
.900	-9.600	-.02000	.30844	-.62777	.18795	.01128	-.00244	-.00094
.900	-7.350	-.02000	.29920	-.46292	.12444	.01298	-.00498	.00114
.900	-5.160	-.02000	.29577	-.31154	.06686	.01389	-.00616	.00179
.900	-2.940	-.01000	.29069	-.16670	.00652	.01413	-.00689	.00183
.900	-.760	-.01000	.28848	-.03078	-.05238	.01303	-.00632	.00074
.900	1.440	-.01000	.28832	.09728	-.09985	.01351	-.00728	.00165
.900	3.610	-.01000	.28877	.22351	-.14254	.01121	-.00622	.00146
.900	5.840	-.01000	.29202	.35381	-.18061	.01146	-.00652	.00206
.900	8.030	-.01000	.28319	.49349	-.23348	.01481	-.00950	.00224
.900	10.160	.00000	.27981	.61250	-.26794	.01114	-.00834	.00326
	GRADIENT	-.00000	-.00027	.05944	-.02264	-.00038	.00005	-.00001

RUN NO. 14/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.098	-12.220	-.01000	.45910	-.95489	.33614	-.00398	.00578	-.00096
1.098	-10.120	-.01000	.46162	-.76488	.26166	-.00122	.00382	-.00044
1.098	-7.790	-.01000	.46043	-.56168	.18129	-.00002	.00330	-.00005
1.098	-5.480	-.01000	.45562	-.37337	.10938	.00120	.00192	.00033
1.098	-3.210	-.01000	.45633	-.19737	.03947	.00159	.00152	.00076
1.098	-.890	.00000	.45403	-.02776	-.02692	.00234	.00010	.00096
1.098	1.340	.00000	.45556	.11581	-.08180	.00170	.00047	.00086
1.098	3.580	.00000	.45333	.25588	-.13516	-.00060	.00182	-.00019
1.098	5.840	-.01000	.45257	.40268	-.18633	-.00109	.00323	-.00034
1.098	8.100	.00000	.44624	.55348	-.24822	-.00132	.00264	-.00002
1.098	10.280	.00000	.43247	.69252	-.29729	-.00334	.00313	.00064
	GRADIENT	.00134	-.00033	.06654	-.02562	-.00032	.00005	-.00013

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF (SA6004) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN.. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 13/ 0 RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.250	-12.300	-.01000	.45232	-.93495	.33882	-.00131	.00456	-.00054
1.250	-10.170	-.01000	.45856	-.73599	.25312	.00109	.00289	.00018
1.250	-7.830	-.02000	.46370	-.53560	.17589	.00330	.00185	.00087
1.250	-5.510	-.02000	.46765	-.35240	.10558	.00438	.00090	.00102
1.250	-3.220	-.01000	.47122	-.18729	.04311	.00416	.00004	.00145
1.250	-.920	-.01000	.47409	-.03334	-.01325	.00493	-.00126	.00162
1.250	1.380	-.01000	.47260	.11182	-.06383	.00479	-.00128	.00155
1.250	3.590	.00000	.46743	.23831	-.11595	.00511	-.00232	.00177
1.250	5.830	-.01000	.46449	.37923	-.16811	.00349	-.00060	.00142
1.250	8.090	-.01000	.45539	.52256	-.22951	.00444	-.00157	.00138
1.250	10.280	.00000	.44370	.65723	-.27461	.00451	-.00213	.00131
	GRADIENT	.00131	-.00056	.06258	-.02322	.00012	-.00031	.00004

RUN NO. 37/ 0 RN/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.462	-12.380	-.01000	.45849	-.96148	.35484	.00045	.00224	.00004
1.462	-10.260	.00000	.45933	-.77007	.27427	-.00038	.00236	.00057
1.462	-7.920	.00000	.46137	-.57277	.19536	-.00190	.00236	.00074
1.462	-5.580	.00000	.46038	-.39359	.12684	.00111	.00045	.00102
1.462	-3.270	.00000	.45869	-.22434	.06215	.00188	-.00069	.00115
1.462	-.960	.00000	.45789	-.06891	.00526	.00145	-.00049	.00117
1.462	1.320	.00000	.45558	.07486	-.04432	.00104	-.00008	.00128
1.462	3.580	.00000	.45421	.20917	-.09149	.00116	-.00092	.00114
1.462	5.830	.00000	.44963	.34188	-.14095	.00121	-.00099	.00073
1.462	8.110	.00000	.44436	.48383	-.19420	.00034	-.00059	.00069
1.462	10.260	.00000	.43933	.61564	-.24188	.00007	-.00030	.00096
	GRADIENT	.00000	-.00069	.06327	-.02237	-.00011	-.00000	.00000

DATE 08 MAY 84

TABULATED SOURCE AND INCREMENTAL DATA - FA301 (MSFC 14TWT-692)

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF

(SA6005) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 1290.3000 INCHES
BREF = 1290.3000 INCHES
SCALE = .0040

XMRP = 976.0000 IN XT
YMRP = .0000 IN. YT
ZMRP = 400.0000 IN. ZT

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 17/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.802	-11.350	-.01000	.27736	-.68170	.19623	.00324	.00109	-.00046
.802	-9.350	-.01000	.27788	-.54759	.14563	.00467	-.00015	-.00019
.802	-7.200	.00000	.27906	-.41449	.09641	.00395	-.00042	-.00008
.802	-5.030	-.01000	.27565	-.28046	.04412	.00731	-.00271	.00030
.802	-2.850	-.01000	.27134	-.15044	-.00809	.00685	-.00236	.00063
.802	-.690	-.01000	.26869	-.02343	-.05542	.00678	-.00246	.00070
.802	1.490	-.01000	.26435	.10110	-.10194	.00914	-.00423	.00151
.802	3.640	.00000	.25873	.22562	-.14101	.00724	-.00363	.00156
.802	5.830	.00000	.25500	.35657	-.18279	.00880	-.00496	.00158
.802	7.980	.00000	.24833	.48322	-.22722	.00598	-.00318	.00114
.802	10.080	.00000	.24704	.57900	-.24690	.00399	-.00235	.00235
	GRADIENT	.00138	-.00195	.05786	-.02057	.00016	-.00026	.00017

RUN NO. 18/ 0 RN/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.901	-11.660	-.02000	.32020	-.78116	.24393	.00165	.00405	-.00161
.901	-9.620	-.01000	.32081	-.63740	.19082	.00285	.00281	-.00187
.901	-7.390	-.01000	.31395	-.47134	.12795	.00447	.00083	.00003
.901	-5.170	-.01000	.30666	-.31927	.06978	.00366	.00024	.00031
.901	-2.980	-.01000	.30295	-.17497	.01089	.00574	-.00119	.00034
.901	-.780	-.01000	.29854	-.03574	-.05047	.00532	-.00053	-.00046
.901	1.430	-.01000	.29384	.09277	-.09977	.00805	-.00233	.00060
.901	3.600	-.01000	.29278	.21994	-.14271	.00688	-.00222	.00073
.901	5.810	-.01000	.29357	.35036	-.18133	.00748	-.00234	.00169
.901	8.000	-.01000	.28563	.48876	-.23096	.00609	-.00211	.00098
.901	10.120	.00000	.28143	.60502	-.26747	.00125	-.00073	.00162
	GRADIENT	-.00000	-.00161	.05983	-.02324	.00028	-.00022	.00010

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF (SA6005) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 19/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.099	-12.300	.00000	.46605	-.99141	.35630	-.01032	.01036	-.00176
1.099	-10.160	.00000	.46887	-.80135	.28374	-.00892	.00900	-.00172
1.099	-7.840	.00000	.46608	-.59782	.20335	-.00795	.00839	-.00120
1.099	-5.520	.00000	.46164	-.40529	.12734	-.00682	.00762	-.00090
1.099	-3.220	.00000	.45767	-.22278	.05339	-.00586	.00654	-.00060
1.099	-.950	.00000	.45222	-.05404	-.01417	-.00541	.00610	-.00024
1.099	1.320	-.01000	.44164	.10502	-.08345	-.00348	.00581	.00045
1.099	3.530	-.01000	.44028	.24591	-.13801	-.00336	.00529	.00008
1.099	5.800	-.01000	.43922	.39444	-.18964	-.00353	.00608	-.00025
1.099	8.030	.00000	.43895	.53875	-.24186	-.00415	.00556	-.00052
1.099	10.240	.00000	.43087	.68187	-.29485	-.00821	.00749	-.00010
	GRADIENT	-.00178	-.00279	.06951	-.02858	.00042	-.00018	.00012

RUN NO. 20/ 0 RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.250	-12.330	-.02000	.45983	-.97241	.35993	-.00290	.00694	-.00061
1.250	-10.180	-.01000	.45589	-.76114	.26690	-.00286	.00658	-.00048
1.250	-7.840	-.02000	.45965	-.55581	.18499	-.00182	.00624	-.00001
1.250	-5.530	-.02000	.46364	-.37409	.11612	-.00146	.00624	.00015
1.250	-3.220	-.02000	.46491	-.20718	.05321	.00033	.00401	.00029
1.250	-.940	-.02000	.46293	-.05795	-.00242	.00134	.00319	.00087
1.250	1.350	-.02000	.45860	.09121	-.05836	.00307	.00184	.00146
1.250	3.550	-.01000	.45536	.22689	-.11683	.00160	.00216	.00122
1.250	5.800	-.01000	.45173	.36869	-.16975	.00272	.00118	.00146
1.250	8.030	-.01000	.44570	.50976	-.22647	.00007	.00283	.00044
1.250	10.200	.00000	.43957	.64320	-.27227	-.00083	.00273	.00061
	GRADIENT	.00132	-.00146	.06423	-.02504	.00025	-.00031	.00015

MSFC TWT 692.OTS+OGIVE FAIRING(POS.1)- PLUME OFF (SA6005) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 38/ 0 RN/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.460	-12.430	-.01000	.45977	-.99537	.37710	.00168	.00196	.00018
1.460	-10.320	-.01000	.45970	-.80990	.29974	.00032	.00273	.00049
1.460	-7.900	.00000	.45901	-.61357	.22014	-.00143	.00289	.00060
1.460	-5.630	-.01000	.45516	-.43029	.14941	.00068	.00182	.00072
1.460	-3.320	.00000	.45234	-.26281	.08523	.00070	.00099	.00059
1.460	-1.000	.00000	.44920	-.10856	.02854	.00055	.00111	.00057
1.460	1.260	.00000	.44184	.03480	-.02362	.00188	.00037	.00094
1.460	3.540	.00000	.43846	.17447	-.07659	-.00111	.00142	.00064
1.460	5.780	.00000	.43716	.31166	-.12912	-.00076	.00082	.00077
1.460	8.040	.00000	.43475	.45501	-.18148	.00001	.00049	.00107
1.460	10.230	.00000	.42874	.58701	-.22857	.00189	-.00008	.00108
	GRADIENT	.00000	-.00214	.06372	-.02354	-.00018	.00002	.00002

MSFC TWT 692.OTS+OGIVE FAIRING(POS.2)- PLUME OFF (SA6006) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 24/ 0 RN/L = 6.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.800	-11.280	-.01000	.27490	-.68091	.19604	.00646	-.00132	.00005
.800	-9.370	-.01000	.27647	-.55277	.14645	.00677	-.00114	.00011
.800	-7.190	-.01000	.27500	-.40964	.09341	.00467	-.00043	.00010
.800	-5.030	-.01000	.27364	-.27791	.04141	.00637	-.00220	.00044
.800	-2.870	-.01000	.27028	-.14913	-.00864	.00551	-.00105	.00056
.800	-.690	-.01000	.26792	-.02339	-.05528	.00813	-.00333	.00107
.800	1.470	-.01000	.26420	.10294	-.10217	.00972	-.00482	.00177
.800	3.650	.00000	.26015	.23311	-.14308	.00586	-.00353	.00157
.800	5.860	.00000	.25553	.36724	-.18701	.00750	-.00448	.00142
.800	8.030	.00000	.24929	.49091	-.22831	.00419	-.00241	.00086
.800	10.100	.00000	.24728	.58548	-.24964	.00409	-.00318	.00267
	GRADIENT	.00138	-.00157	.05861	-.02073	.00012	-.00041	.00017

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF (SA6006) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 23/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.900	-11.570	-.01000	.31399	-.77627	.24283	.00247	.00235	-.00107
.900	-9.600	-.01000	.31532	-.63310	.18964	.00355	.00164	-.00141
.900	-7.370	-.01000	.30742	-.47402	.12938	.00302	.00117	-.00033
.900	-5.170	-.01000	.30042	-.32143	.07035	.00386	-.00011	.00058
.900	-2.980	-.01000	.29678	-.17710	.01114	.00466	-.00098	.00028
.900	-.780	-.01000	.29438	-.03630	-.05064	.00601	-.00196	-.00014
.900	1.410	-.01000	.29080	.09160	-.09938	.00717	-.00295	.00057
.900	3.600	.00000	.29078	.21686	-.14034	.00691	-.00325	.00102
.900	5.840	-.01000	.29136	.34956	-.17968	.00775	-.00352	.00198
.900	8.040	-.01000	.28349	.49260	-.23326	.00865	-.00455	.00138
.900	10.120	.00000	.28090	.60719	-.26835	.00577	-.00386	.00225
	GRADIENT	.00137	-.00098	.05973	-.02295	.00036	-.00036	.00013

RUN NO. 22/ 0 RN/L = 6.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.098	-12.170	-.01000	.44826	-.97560	.35114	-.00537	.00709	-.00096
1.098	-10.110	-.01000	.45624	-.79026	.28020	-.00411	.00593	-.00067
1.098	-7.790	-.01000	.45701	-.58928	.20073	-.00329	.00534	-.00007
1.098	-5.490	-.01000	.45464	-.39882	.12664	-.00114	.00400	.00033
1.098	-3.080	-.01000	.44862	-.21503	.05170	-.00058	.00352	.00074
1.098	-.900	-.01000	.44682	-.03928	-.02103	-.00063	.00287	.00068
1.098	1.330	-.01000	.44825	.11081	.08248	.00125	.00156	.00102
1.098	3.590	.00000	.44745	.25457	-.13914	-.00114	.00318	-.00001
1.098	5.860	-.01000	.44556	.40491	-.19149	-.00080	.00371	-.00003
1.098	8.100	-.01000	.43873	.55071	-.24814	-.00030	.00344	.00010
1.098	10.270	.00000	.42532	.69149	-.30054	-.00335	.00487	.00020
	GRADIENT	.00136	-.00009	.07006	-.02849	.00001	-.00010	-.00009

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF (SA6006) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 21/ 0 RN/L = 6.81 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.250	-12.280	-.02000	.44606	-.96334	.36115	-.00153	.00582	-.00065
1.250	-10.170	-.01000	.45168	-.76185	.27093	-.00113	.00468	.00036
1.250	-7.830	-.01000	.45920	-.55799	.18844	.00048	.00377	.00071
1.250	-5.530	-.02000	.46334	-.37568	.11976	.00268	.00253	.00080
1.250	-3.230	-.02000	.46426	-.20875	.05679	.00439	.00103	.00122
1.250	-.930	-.02000	.46712	-.05340	-.00165	.00323	.00155	.00116
1.250	1.360	-.01000	.46775	.09607	-.05724	.00499	.00002	.00195
1.250	3.580	-.01000	.46157	.22853	-.11395	.00442	-.00033	.00162
1.250	5.840	-.01000	.45853	.37296	-.16790	.00511	-.00052	.00166
1.250	8.080	-.01000	.44922	.51299	-.22580	.00531	-.00033	.00116
1.250	10.260	-.01000	.43969	.64682	-.27111	.00600	-.00132	.00137
	GRADIENT	.00176	-.00032	.06433	-.02499	.00008	-.00025	.00009

RUN NO. 39/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.463	-12.420	-.01000	.45896	-.99088	.37604	.00210	.00143	.00056
1.463	-10.250	-.01000	.45676	-.79437	.29408	.00186	.00174	.00083
1.463	-7.910	.00000	.45807	-.59897	.21443	-.00052	.00247	.00081
1.463	-5.590	-.01000	.45360	-.42101	.14645	.00061	.00160	.00068
1.463	-3.280	.00000	.45179	-.25434	.08323	.00159	.00045	.00069
1.463	-1.000	.00000	.44932	-.10301	.02743	.00167	-.00007	.00088
1.463	1.320	.00000	.44569	.04456	-.02608	.00181	-.00010	.00115
1.463	3.550	.00000	.44179	.17982	-.07666	-.00072	.00044	.00076
1.463	5.820	.00000	.44047	.31634	-.12808	-.00027	.00083	.00048
1.463	8.040	.00000	.43844	.45723	-.18021	.00022	.00100	.00050
1.463	10.240	.00000	.43362	.59260	-.22851	-.00026	.00110	.00052
	GRADIENT	.00000	-.00147	.06358	-.02338	-.00030	-.00000	.00002

DATE 08 MAY 84 TABULATED SOURCE AND INCREMENTAL DATA - FA301 (MSFC 14TWT-692)

MSFC TWT 692.OTS+OGIVE FAIRING(POS.3)- PLUME OFF (SA6007) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 25/ 0 RN/L = 6.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.800	-11.310	-.01000	.26131	-.68345	.19651	.00721	-.00151	.00065
.800	-9.350	-.01000	.26212	-.54404	.14267	.00905	-.00319	.00119
.800	-7.180	-.01000	.26070	-.40548	.09101	.00876	-.00342	.00149
.800	-5.020	.00000	.26074	-.27695	.03947	.00746	-.00338	.00108
.800	-2.860	-.01000	.25989	-.14670	-.01142	.01256	-.00595	.00163
.800	-.680	-.01000	.25832	-.02055	-.05761	.01173	-.00589	.00175
.800	1.480	.00000	.25667	.10500	-.10298	.00872	-.00456	.00169
.800	3.660	.00000	.25409	.23345	-.14319	.00858	-.00484	.00189
.800	5.860	.00000	.25134	.36510	-.18570	.00602	-.00339	.00133
.800	8.030	.00000	.24629	.49051	-.22759	.00409	-.00227	.00115
.800	10.090	.00000	.24459	.58712	-.24950	.00372	-.00233	.00270
	GRADIENT	.00184	-.00088	.05829	-.02029	-.00069	.00021	.00003

RUN NO. 26/ 0 RN/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.905	-11.590	-.01000	.30065	-.76334	.23835	.00610	-.00086	-.00056
.905	-9.620	-.01000	.30639	-.62842	.18818	.00436	-.00023	-.00115
.905	-7.380	.00000	.29857	-.46777	.12815	.00453	-.00152	.00035
.905	-5.170	.00000	.29086	-.33203	.07962	.00391	-.00092	.00046
.905	-2.960	.00000	.28793	-.16858	.00751	.00363	-.00097	.00027
.905	-.770	.00000	.28663	-.03282	-.05119	.00413	-.00125	-.00011
.905	1.420	.00000	.28602	.09442	-.09893	.00473	-.00151	.00049
.905	3.610	.00000	.28645	.22228	-.14170	.00321	-.00132	.00068
.905	5.840	.00000	.29051	.35155	-.17884	.00246	-.00111	.00130
.905	8.040	.00000	.28193	.49070	-.23230	.00687	-.00433	.00123
.905	10.160	.00000	.27977	.60748	-.26793	.00397	-.00338	.00201
	GRADIENT	.00000	-.00023	.05935	-.02262	-.00003	-.00006	.00008

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF (SA6007) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 27/ 0 RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.100	-12.240	.00000	.45524	-.97019	.34949	-.00601	.00702	-.00123
1.100	-10.120	-.01000	.46170	-.77947	.27397	-.00295	.00476	-.00058
1.100	-7.810	-.01000	.46335	-.57738	.19378	-.00196	.00421	-.00005
1.100	-5.490	-.01000	.45874	-.38806	.12096	-.00037	.00298	.00034
1.100	-3.200	-.01000	.45602	-.20729	.04786	.00073	.00217	.00077
1.100	-.900	.00000	.45455	-.03288	-.02389	.00093	.00145	.00084
1.100	1.320	.00000	.45627	.11580	-.08308	.00185	.00045	.00113
1.100	3.570	.00000	.45241	.25660	-.13773	-.00005	.00202	.00009
1.100	5.860	-.01000	.45115	.40675	-.18984	-.00127	.00345	-.00016
1.100	8.100	.00000	.44374	.55382	-.24965	.00005	.00192	.00016
1.100	10.250	.00000	.43526	.68844	-.29590	-.00126	.00221	.00069
	GRADIENT	.00134	-.00041	.06839	-.02735	-.00006	-.00006	-.00008

RUN NO. 28/ 0 RN/L = 6.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.251	-12.290	-.01000	.45205	-.93997	.34271	-.00160	.00493	-.00044
1.251	-10.170	-.01000	.45637	-.73558	.25446	.00157	.00284	.00071
1.251	-7.830	-.02000	.46382	-.53369	.17445	.00314	.00206	.00116
1.251	-5.530	-.02000	.46910	-.35278	.10561	.00569	.00030	.00148
1.251	-3.220	-.02000	.47224	-.18816	.04387	.00673	-.00074	.00159
1.251	-.920	-.01000	.47477	-.03526	-.01259	.00641	-.00124	.00162
1.251	1.350	-.01000	.47498	.11197	-.06561	.00731	-.00225	.00202
1.251	3.570	-.01000	.46893	.24215	-.12063	.00770	-.00313	.00207
1.251	5.850	-.01000	.46460	.38779	-.17534	.00724	-.00215	.00159
1.251	8.090	-.01000	.45142	.52699	-.23568	.00771	-.00297	.00131
1.251	10.250	-.01000	.44155	.66094	-.28086	.00784	-.00384	.00161
	GRADIENT	.00133	-.00042	.06354	-.02414	.00017	-.00036	.00008

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF (SA6007) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 40/ 0 RN/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.459	-12.390	-.01000	.46024	-.96308	.36001	.00532	-.00092	.00091
1.459	-10.230	-.01000	.46048	-.77135	.27870	.00453	-.00039	.00124
1.459	-7.890	-.01000	.46052	-.57141	.19722	.00204	.00092	.00122
1.459	-5.570	-.01000	.46001	-.39482	.12968	.00408	-.00090	.00154
1.459	-3.260	.00000	.45971	-.22690	.06580	.00441	-.00178	.00160
1.459	-.980	.00000	.45640	-.07615	.01148	.00347	-.00141	.00144
1.459	1.340	.00000	.45451	.06754	-.03778	.00203	-.00032	.00128
1.459	3.570	.00000	.45187	.19909	-.08442	-.00036	.00027	.00100
1.459	5.840	.00000	.44926	.33263	-.13421	-.00008	-.00009	.00066
1.459	8.060	.00000	.44538	.47128	-.18485	-.00095	.00041	.00040
1.459	10.260	.00000	.43912	.60355	-.23300	-.00108	.00021	.00034
	GRADIENT	.00000	-.00111	.06233	-.02192	-.00069	.00032	-.00009

MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF (SA6008) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 32/ 0 RN/L = 6.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.801	-11.340	-.01000	.25559	-.68596	.19779	.00712	-.00229	.00026
.801	-9.390	-.01000	.25772	-.55833	.14928	.00916	-.00315	.00064
.801	-7.220	-.01000	.25548	-.41640	.09637	.00927	-.00322	.00119
.801	-5.070	-.01000	.25433	-.28332	.04264	.00992	-.00441	.00140
.801	-2.890	-.01000	.25244	-.15253	-.00963	.00910	-.00381	.00139
.801	-.710	-.01000	.25013	-.02862	-.05388	.01088	-.00562	.00161
.801	1.450	-.01000	.24901	.09799	-.10202	.01057	-.00581	.00194
.801	3.630	.00000	.24635	.22860	-.14266	.00922	-.00576	.00216
.801	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
.801	7.980	-.01000	.23800	.48205	-.22662	.01439	-.00889	.00244
.801	10.080	.00000	.23553	.57872	-.24899	.01186	-.00801	.00335
	GRADIENT	.00138	-.00089	.05847	-.02059	.00000	-.00028	.00012

MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF (SA6008) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 31/ 0 RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.901	-11.650	-.01000	.29778	-.79196	.24884	.00553	.00026	-.00068
.901	-9.670	-.01000	.30074	-.64943	.19565	.00461	.00043	-.00076
.901	-7.410	-.01000	.29279	-.48060	.13040	.00800	-.00226	.00032
.901	-5.190	-.01000	.28505	-.32747	.07108	.00676	-.00102	.00208
.901	-3.000	-.01000	.28392	-.17810	.00892	.00750	-.00253	.00181
.901	-.800	-.01000	.28336	-.04155	-.04918	.00712	-.00292	.00060
.901	1.380	-.01000	.28136	.08394	-.09734	.01057	-.00512	.00156
.901	3.580	-.01000	.28161	.21128	-.13921	.00780	-.00389	.00139
.901	5.810	-.01000	.28610	.34283	-.17862	.00916	-.00420	.00219
.901	8.020	.00000	.27732	.48714	-.23333	.00997	-.00573	.00188
.901	10.120	.00000	.27393	.60427	-.27030	.00961	-.00627	.00272
	GRADIENT	.00000	-.00041	.05902	-.02247	.00020	-.00029	-.00001

RUN NO. 30/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.100	-12.280	.00000	.45370	-.88888	.37136	-.01049	.01037	-.00195
1.100	-10.170	.00000	.45538	-.80767	.28984	-.00729	.00813	-.00133
1.100	-7.850	-.01000	.45565	-.60348	.20785	-.00425	.00586	-.00071
1.100	-5.530	-.01000	.44938	-.40700	.12775	-.00179	.00407	-.00028
1.100	-3.230	-.01000	.44388	-.22390	.05350	-.00074	.00321	.00021
1.100	-.930	.00000	.44154	-.04823	-.01863	-.00236	.00352	.00039
1.100	1.300	-.01000	.44561	.10449	-.08178	-.00053	.00290	.00103
1.100	3.540	.00000	.44347	.24958	-.13897	-.00049	.00246	.00058
1.100	5.820	.00000	.44349	.39887	-.19077	.00026	.00190	.00067
1.100	8.070	.00000	.43684	.54738	-.24937	.00061	.00088	.00057
1.100	10.240	.00000	.43116	.68377	-.29604	.00007	.00064	.00114
	GRADIENT	.00089	.00012	.06981	-.02843	.00011	-.00013	.00008

MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF (SA6008) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 29/ 0 RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.251	-12.310	-.01000	.44774	-.96661	.35899	-.00508	.00846	-.00120
1.251	-10.190	-.02000	.45090	-.75812	.26581	-.00225	.00628	-.00002
1.251	-7.850	-.02000	.45606	-.55429	.18455	.00135	.00394	.00043
1.251	-5.550	-.02000	.45964	-.37224	.11384	.00368	.00216	.00086
1.251	-3.260	-.02000	.46045	-.20735	.05229	.00368	.00172	.00093
1.251	-.960	-.02000	.46070	-.05116	-.00750	.00539	.00000	.00132
1.251	1.310	-.02000	.45726	.09682	-.06256	.00519	-.00003	.00156
1.251	3.550	-.01000	.45613	.23260	-.12119	.00569	-.00121	.00205
1.251	5.810	-.01000	.45435	.37635	-.17524	.00586	-.00172	.00232
1.251	8.080	-.01000	.44430	.51867	-.23328	.00701	-.00279	.00196
1.251	10.240	-.01000	.43431	.65072	-.27785	.00709	-.00279	.00179
	GRADIENT	.00132	-.00072	.06467	-.02535	.00026	-.00039	.00016

RUN NO. 33/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.459	-12.370	-.01000	.45513	-.98467	.37308	-.00022	.00227	.00008
1.459	-10.240	.00000	.45633	-.79321	.29361	-.00079	.00269	.00016
1.459	-7.910	.00000	.45548	-.59610	.21331	-.00164	.00294	.00035
1.459	-5.560	-.01000	.45104	-.41738	.14494	.00022	.00192	.00041
1.459	-3.260	-.01000	.44864	-.25389	.08301	.00226	.00023	.00064
1.459	-.980	.00000	.44673	-.10704	.03063	.00251	-.00035	.00059
1.459	1.310	.00000	.44332	.03380	-.01856	.00266	-.00021	.00075
1.459	3.560	.00000	.43844	.16785	-.06905	.00231	-.00101	.00069
1.459	5.830	.00000	.43650	.30528	-.12262	.00315	-.00099	.00072
1.459	8.070	.00000	.43504	.44918	-.17612	.00264	-.00034	.00082
1.459	10.250	.00000	.42856	.58120	-.22325	.00384	-.00149	.00081
	GRADIENT	.00132	-.00149	.06181	-.02221	.00001	-.00016	.00001

MSFC TWT 692,OTS+WING FAIRING(POS.1) - PLUME OFF (SA6009) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 85/ 0 RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.251	-12.380	-.03000	.46246	-.91009	.30414	.00821	.00106	.00141
1.251	-10.200	-.03000	.46061	-.70088	.21537	.01092	-.00256	.00170
1.251	-7.870	-.03000	.47407	-.51231	.14335	.01294	-.00395	.00254
1.251	-5.550	-.03000	.47881	-.33579	.08013	.01408	-.00473	.00307
1.251	-3.260	-.03000	.47935	-.17776	.02392	.01417	-.00459	.00352
1.251	-.960	-.03000	.48006	-.02865	-.02817	.01480	-.00578	.00344
1.251	1.310	-.02000	.48089	.10551	-.06890	.01456	-.00630	.00357
1.251	3.540	-.02000	.47396	.22881	-.11579	.01102	-.00419	.00294
1.251	5.820	-.01000	.46913	.37422	-.17108	.00964	-.00397	.00303
1.251	8.060	-.02000	.46047	.51693	-.23103	.00821	-.00265	.00241
1.251	10.250	-.02000	.45021	.65229	-.27743	.00993	-.00275	.00207
	GRADIENT	.00176	-.00067	.05974	-.02029	-.00042	.00003	-.00007

MSFC TWT 692,OTS+WING FAIRING(POS.2) - PLUME OFF (SA6010) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 86/ 0 RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.250	-12.370	-.03000	.45991	-.90725	.30402	.00726	.00135	.00159
1.250	-10.200	-.03000	.46577	-.70259	.21805	.01011	-.00184	.00213
1.250	-7.870	-.02000	.46608	-.50364	.14060	.01299	-.00462	.00290
1.250	-5.550	-.03000	.47405	-.32633	.07622	.01426	-.00539	.00339
1.250	-3.260	-.03000	.47707	-.16414	.01706	.01392	-.00488	.00373
1.250	-.940	-.02000	.48091	-.01575	-.03489	.01365	-.00572	.00363
1.250	1.330	-.02000	.48357	.12062	-.07742	.01425	-.00643	.00340
1.250	3.550	-.01000	.48077	.24215	-.12288	.01230	-.00622	.00281
1.250	5.800	-.01000	.47999	.38033	-.17412	.01024	-.00473	.00243
1.250	8.040	-.01000	.47150	.51610	-.22918	.00852	-.00325	.00196
1.250	10.240	-.02000	.46238	.64649	-.27164	.01040	-.00363	.00186
	GRADIENT	.00264	.00061	.05972	-.02037	-.00019	-.00021	-.00013

MSFC TWT 692, O T S (BASELINE) - PLUME ON (SA6011) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 67/ O RN/L = 6.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.801	-11.260	-.01000	.21867	-.63300	.16049	.00725	-.00143	.00022
.801	-9.290	-.01000	.21892	-.49820	.10737	.01154	-.00439	.00133
.801	-7.110	-.01000	.21983	-.35774	.05374	.01051	-.00357	.00169
.801	-4.960	-.01000	.22137	-.23552	.00571	.00978	-.00401	.00145
.801	-2.800	-.01000	.21404	-.10516	-.04129	.01087	-.00486	.00115
.801	-.640	-.01000	.21094	.01413	-.08392	.01308	-.00696	.00172
.801	1.540	.00000	.20703	.13244	-.12395	.01088	-.00675	.00191
.801	3.720	.00000	.20323	.26328	-.16443	.01056	-.00709	.00241
.801	5.930	.00000	.19845	.39397	-.20594	.01382	-.00960	.00282
.801	8.080	.00000	.18911	.51660	-.24740	.01576	-.01084	.00154
.801	10.120	.00000	.19211	.59491	-.25623	.00829	-.00656	.00348
	GRADIENT	.00138	-.00199	.05692	-.01949	.00007	-.00037	.00012

RUN NO. 68/ O RN/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.901	-11.540	-.01000	.24401	-.71358	.19608	.00916	-.00293	.00043
.901	-9.540	-.02000	.24513	-.57911	.14581	.01057	-.00306	.00055
.901	-7.330	-.02000	.24478	-.41559	.08233	.01002	-.00260	.00140
.901	-5.120	-.01000	.23449	-.26749	.02673	.00923	-.00296	.00174
.901	-2.920	-.01000	.23339	-.12787	-.02866	.01267	-.00562	.00197
.901	-.720	-.01000	.23145	-.00183	-.07824	.01299	-.00653	.00106
.901	1.480	-.01000	.22919	.11843	-.12020	.01513	-.00874	.00201
.901	3.680	-.01000	.22779	.24101	-.15783	.01280	-.00791	.00234
.901	5.900	-.01000	.22889	.37239	-.19430	.01427	-.00922	.00352
.901	8.090	-.01000	.21661	.50732	-.24615	.01603	-.01051	.00334
.901	10.160	.00000	.21117	.61044	-.27080	.01200	-.00988	.00418
	GRADIENT	-.00000	-.00087	.05577	-.01952	.00012	-.00041	.00009

MSFC TWT 692, O T S (BASELINE) - PLUME ON (SA6011) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 50/ O RN/L = 6.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.099	-12.140	.00000	.32875	-.89354	.27850	-.00094	.00238	-.00028
1.099	-10.010	.00000	.32381	-.69718	.19900	-.00192	.00377	-.00068
1.099	-7.710	-.01000	.32418	-.50270	.12468	.00100	.00181	.00021
1.099	-5.370	-.01000	.32218	-.31428	.05324	.00203	.00107	.00045
1.099	-3.090	.00000	.32073	-.14074	-.01420	.00221	-.00011	.00069
1.099	-.810	.00000	.31869	.02208	-.07553	.00103	.00002	.00065
1.099	1.470	.00000	.31249	.15388	-.12160	-.00069	.00134	-.00005
1.099	3.710	.00000	.30914	.28408	-.16584	-.00204	.00185	-.00060
1.099	6.000	.00000	.30260	.43146	-.21327	-.00018	.00056	-.00030
1.099	8.210	.00000	.28848	.56971	-.26799	-.00032	.00107	-.00003
1.099	10.410	.00000	.28081	.69068	-.30040	-.00246	.00289	-.00033
	GRADIENT	.00000	-.00181	.06201	-.02209	-.00064	.00032	-.00020

RUN NO. 49/ O RN/L = 6.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.249	-12.230	-.04000	.32147	-.90276	.29182	.00995	.00009	.00101
1.249	-10.080	-.03000	.31475	-.69051	.19898	.01527	-.00559	.00250
1.249	-7.740	-.03000	.31874	-.49120	.12070	.01887	-.00823	.00315
1.249	-5.400	-.03000	.31994	-.30227	.04809	.01884	-.00875	.00348
1.249	-3.120	-.02000	.32198	-.14090	-.01049	.01660	-.00810	.00370
1.249	-.820	-.02000	.32111	.00736	-.06144	.01456	-.00718	.00325
1.249	1.470	-.02000	.32340	.14024	-.10118	.01523	-.00740	.00347
1.249	3.700	-.02000	.31817	.26022	-.14403	.01271	-.00611	.00253
1.249	6.000	-.02000	.31308	.39518	-.18943	.01170	-.00503	.00189
1.249	8.200	-.02000	.29543	.52709	-.24288	.01000	-.00398	.00140
1.249	10.420	-.02000	.28022	.65243	-.27844	.00926	-.00343	.00184
	GRADIENT	.00000	-.00040	.05875	-.01936	-.00048	.00025	-.00014

MSFC TWT 692, O T S (BASELINE) - PLUME ON (SA6011) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 48/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.460	-12.230	.00000	.31268	-.89810	.29723	.00378	-.00169	.00074
1.460	-10.090	.00000	.30538	-.71114	.21762	.00030	.00094	.00030
1.460	-7.750	.00000	.29815	-.50767	.13133	.00052	-.00050	.00065
1.460	-5.430	.00000	.29560	-.33164	.06313	.00301	-.00176	.00110
1.460	-3.120	.00000	.29265	-.16543	.00157	.00368	-.00288	.00131
1.460	-.850	.00000	.28939	-.01870	-.04815	.00351	-.00294	.00137
1.460	1.450	.00000	.29096	.12226	-.09353	.00262	-.00237	.00134
1.460	3.710	.00000	.29011	.25012	-.13370	.00266	-.00373	.00134
1.460	5.960	.00000	.28778	.37192	-.17081	.00151	-.00184	.00063
1.460	8.230	.00000	.27854	.50294	-.21512	.00194	-.00265	.00055
1.460	10.420	.00000	.26830	.62930	-.25559	.00549	-.00479	.00087
	GRADIENT	.00000	-.00026	.06089	-.01980	-.00017	-.00009	.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON (SA6012) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 70/ 0 RN/L = 6.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.802	-11.280	-.02000	.21611	-.63739	.16219	.00854	-.00094	.00023
.802	-9.330	-.02000	.21682	-.50210	.10972	.01148	-.00296	.00098
.802	-7.130	-.01000	.21729	-.36424	.05570	.01124	-.00373	.00138
.802	-4.960	-.02000	.21432	-.23443	.00742	.01350	-.00526	.00146
.802	-2.810	-.01000	.21293	-.11014	-.04009	.01066	-.00452	.00090
.802	-.650	-.01000	.20879	.00977	-.08221	.01213	-.00606	.00143
.802	1.510	-.01000	.20507	.12812	-.12255	.01214	-.00669	.00188
.802	3.700	.00000	.20080	.25909	-.16327	.01244	-.00784	.00257
.802	5.900	.00000	.19721	.38948	-.20449	.01388	-.00972	.00252
.802	8.040	.00000	.18775	.51205	-.24622	.01708	-.01267	.00163
.802	10.120	.00000	.18921	.59075	-.25563	.01251	-.00949	.00369
	GRADIENT	.00185	-.00161	.05662	-.01958	-.00003	-.00034	.00015

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON (SA6012) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 69/ 0 RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.901	-11.560	-.02000	.24127	-.72493	.20079	.01105	-.00318	.00073
.901	-9.560	-.02000	.24576	-.58590	.14800	.01001	-.00170	.00018
.901	-7.320	-.02000	.23852	-.42111	.08436	.00948	-.00167	.00121
.901	-5.090	-.02000	.23590	-.27184	.02796	.01004	-.00227	.00146
.901	-2.920	-.01000	.23066	-.13118	-.02664	.01113	-.00440	.00154
.901	-.720	-.01000	.22891	-.00288	-.07822	.01156	-.00508	.00083
.901	1.480	-.01000	.22689	.11614	-.11945	.01246	-.00655	.00146
.901	3.670	-.01000	.22567	.23951	-.15795	.01201	-.00703	.00209
.901	5.900	-.01000	.22922	.37147	-.19396	.01227	-.00744	.00308
.901	8.090	.00000	.21476	.50364	-.24421	.01416	-.00932	.00289
.901	10.180	.00000	.20943	.60909	-.27093	.01212	-.00946	.00389
	GRADIENT	-.00000	-.00077	.05604	-.01981	.00016	-.00043	.00010

RUN NO. 51/ 0 RN/L = 6.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.099	-12.150	-.01000	.31859	-.90922	.28722	-.00117	.00366	-.00104
1.099	-10.020	-.01000	.31612	-.71459	.20835	.00309	.00023	-.00080
1.099	-7.740	-.01000	.31869	-.51786	.13193	.00257	.00023	-.00054
1.099	-5.410	-.01000	.32200	-.33464	.06249	.00231	.00084	-.00046
1.099	-3.120	.00000	.31479	-.15946	-.00398	.00082	.00052	-.00004
1.099	-.820	.00000	.31187	.00447	-.06639	.00071	-.00006	.00027
1.099	1.440	.00000	.30468	.14313	-.11811	.00008	.00055	-.00050
1.099	3.680	.00000	.30179	.28028	-.16722	-.00156	.00064	-.00098
1.099	5.970	.00000	.29627	.42627	-.21403	-.00111	-.00069	-.00041
1.099	8.190	.00000	.28611	.56224	-.26516	-.00123	-.00088	.00022
1.099	10.380	.00000	.27664	.68690	-.30105	-.00250	.00047	.00032
	GRADIENT	.00000	-.00204	.06435	-.02390	-.00034	.00004	-.00016

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON (SA6012) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 52/ 0 RN/L = 6.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.250	-12.220	-.01000	.31214	-.89168	.29088	.00251	.00178	-.00062
1.250	-10.080	-.01000	.30770	-.68449	.19918	.00561	-.00125	.00011
1.250	-7.760	-.01000	.31317	-.48204	.11928	.00645	-.00187	.00061
1.250	-5.410	-.01000	.32021	-.30171	.05164	.00569	-.00086	.00084
1.250	-3.130	-.01000	.32011	-.14006	-.00826	.00444	-.00108	.00110
1.250	-.830	.00000	.32117	.00473	-.05729	.00342	-.00129	.00113
1.250	1.440	.00000	.32203	.14053	-.10095	.00333	-.00183	.00100
1.250	3.680	.00000	.32053	.26428	-.14796	.00413	-.00332	.00122
1.250	5.960	.00000	.31509	.40152	-.19532	.00388	-.00399	.00108
1.250	8.190	.00000	.29753	.53384	-.24630	.00293	-.00443	.00122
1.250	10.400	.01000	.28273	.66203	-.28639	.00393	-.00608	.00250
	GRADIENT	.00133	.00009	.05943	-.02039	-.00005	-.00032	.00001

RUN NO. 44/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.459	-12.270	.00000	.30712	-.91776	.30773	-.00087	.00105	-.00060
1.459	-10.020	.00000	.29695	-.72224	.22330	-.00116	.00147	-.00037
1.459	-7.780	.00000	.28957	-.51915	.13713	-.00137	.00023	-.00007
1.459	-5.460	.00000	.28818	-.34493	.07030	.00112	-.00120	.00027
1.459	-3.160	.00000	.28838	-.18403	.01243	.00175	-.00132	.00048
1.459	-.870	.00000	.28398	-.03532	-.03926	.00038	-.00069	.00027
1.459	1.430	.00000	.28350	.10462	-.08537	.00084	-.00084	.00047
1.459	3.690	.00000	.28261	.23003	-.12452	.00026	-.00152	.00045
1.459	5.940	.00000	.28029	.35730	-.16545	.00116	-.00171	.00046
1.459	8.200	.00000	.27114	.48966	-.21070	.00252	-.00331	.00049
1.459	10.400	.00000	.26406	.61768	-.25166	.00544	-.00484	.00089
	GRADIENT	.00000	-.00078	.06049	-.02000	-.00018	-.00003	.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON (SA6013) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 71/ 0 RN/L = 6.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.803	-11.240	-.02000	.21501	-.63956	.16317	.00754	.00004	.00017
.803	-9.310	-.02000	.21630	-.50658	.11156	.01023	-.00176	.00085
.803	-7.130	-.01000	.21675	-.36355	.05775	.01046	-.00288	.00141
.803	-4.970	-.01000	.21579	-.23860	.00950	.01151	-.00385	.00122
.803	-2.810	-.01000	.21253	-.11199	-.03848	.01003	-.00366	.00078
.803	-.650	-.01000	.20754	.00713	-.07989	.01036	-.00473	.00111
.803	1.510	-.01000	.20508	.12483	-.12029	.01139	-.00636	.00176
.803	3.700	.00000	.20206	.25588	-.16099	.01073	-.00671	.00225
.803	5.910	.00000	.19702	.38959	-.20335	.01451	-.00976	.00260
.803	8.070	.00000	.18846	.51246	-.24568	.01650	-.01143	.00159
.803	10.140	.00000	.18989	.59236	-.25502	.01069	-.00835	.00352
	GRADIENT	.00093	-.00161	.05659	-.01952	-.00001	-.00039	.00014

RUN NO. 72/ 0 RN/L = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.903	-11.570	-.02000	.24513	-.72695	.20388	.01002	-.00174	.00034
.903	-9.570	-.02000	.24880	-.58779	.14942	.00908	-.00080	.00011
.903	-7.310	-.02000	.23787	-.41889	.08346	.00857	-.00091	.00131
.903	-5.100	-.02000	.23629	-.27346	.02967	.00938	-.00233	.00131
.903	-2.900	-.01000	.23246	-.13174	-.02649	.00915	-.00255	.00123
.903	-.730	-.01000	.22959	-.00732	-.07531	.01032	-.00434	.00043
.903	1.480	-.01000	.22794	.11473	-.11814	.01032	-.00512	.00108
.903	3.650	.00000	.22705	.23677	-.15629	.00708	-.00417	.00117
.903	5.890	.00000	.22914	.36755	-.19242	.00949	-.00591	.00254
.903	8.070	.00000	.21682	.50234	-.24224	.01014	-.00652	.00213
.903	10.180	.00000	.21178	.60829	-.26958	.00801	-.00715	.00313
	GRADIENT	.00137	-.00082	.05616	-.01977	-.00028	-.00026	.00002

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON (SA6013) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 54/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.100	-12.170	.00000	.31982	-.90693	.28556	-.00096	.00282	-.00069
1.100	-10.000	-.01000	.31710	-.71173	.20921	.00132	.00131	-.00036
1.100	-7.700	.00000	.32332	-.51814	.13557	.00317	-.00071	.00017
1.100	-5.380	-.01000	.32280	-.33064	.06561	.00303	-.00030	.00024
1.100	-3.070	.00000	.31785	-.15313	-.00627	.00203	-.00006	.00053
1.100	-.800	.00000	.31323	.01144	-.06966	.00102	.00016	.00070
1.100	1.460	.00000	.30618	.14707	-.11916	.00078	-.00002	.00001
1.100	3.700	.00000	.30600	.27860	-.16327	-.00139	.00074	-.00063
1.100	5.950	.00000	.29889	.42395	-.21180	-.00175	.00043	-.00044
1.100	8.210	.00000	.28236	.56830	-.26859	-.00226	.00045	-.00016
1.100	10.390	.00000	.27548	.68657	-.30042	-.00513	.00234	-.00024
	GRADIENT	.00000	-.00189	.06340	-.02307	-.00046	.00010	-.00018

RUN NO. 53/ 0 RN/L = 6.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.251	-12.220	-.01000	.31143	-.88411	.28741	.00177	.00169	-.00032
1.251	-10.030	-.01000	.30874	-.67556	.19598	.00468	-.00066	.00055
1.251	-7.740	-.01000	.31689	-.47947	.11822	.00662	-.00273	.00099
1.251	-5.390	-.01000	.32209	-.29504	.04861	.00586	-.00171	.00111
1.251	-3.100	-.01000	.32215	-.13133	-.01166	.00555	-.00216	.00144
1.251	-.800	.00000	.32477	.01465	-.06247	.00336	-.00159	.00103
1.251	1.490	.00000	.32711	.14879	-.10384	.00369	-.00237	.00113
1.251	3.710	.00000	.32250	.26966	-.14910	.00317	-.00312	.00099
1.251	5.930	.00000	.31680	.40500	-.19611	.00235	-.00292	.00072
1.251	8.190	.00000	.29867	.53818	-.24877	.00184	-.00312	.00049
1.251	10.390	.00000	.28321	.66580	-.28770	.00227	-.00320	.00133
	GRADIENT	.00133	.00016	.05887	-.01997	-.00030	-.00016	-.00006

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON (SA6013) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 45/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.459	-12.290	-.01000	.30570	-.91375	.30499	.00425	-.00136	-.00004
1.459	-10.120	-.01000	.29624	-.71688	.22104	.00344	-.00081	.00024
1.459	-7.790	.00000	.29182	-.51713	.13541	.00177	-.00140	.00033
1.459	-5.480	.00000	.29093	-.34162	.06872	.00405	-.00267	.00089
1.459	-3.150	.00000	.29108	-.17780	.00910	.00350	-.00224	.00095
1.459	-.870	.00000	.28788	-.03024	-.04189	.00188	-.00155	.00068
1.459	1.410	.00000	.28695	.10680	-.08524	.00148	-.00136	.00061
1.459	3.670	.00000	.28471	.23223	-.12475	.00108	-.00247	.00060
1.459	5.930	.00000	.28194	.35885	-.16534	.00127	-.00213	.00041
1.459	8.200	.00000	.27235	.49194	-.21107	.00127	-.00247	.00020
1.459	10.380	.00000	.26540	.61850	-.25118	.00338	-.00391	.00036
	GRADIENT	.00000	-.00088	.06012	-.01957	-.00034	-.00002	-.00005

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON (SA6014) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 74/ 0 RN/L = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.801	-11.270	-.01000	.21399	-.63652	.16278	.00624	.00064	-.00032
.801	-9.320	-.02000	.21585	-.50310	.11118	.00924	-.00153	.00053
.801	-7.150	-.02000	.21738	-.36522	.05808	.01123	-.00303	.00119
.801	-4.990	-.01000	.21641	-.24212	.01016	.01049	-.00357	.00103
.801	-2.830	-.01000	.21283	-.11127	-.03846	.01136	-.00442	.00090
.801	-.670	-.01000	.20951	.00684	-.07972	.01181	-.00542	.00131
.801	1.510	-.01000	.20518	.12550	-.11995	.01347	-.00741	.00200
.801	3.700	-.01000	.20215	.25607	-.16033	.01421	-.00861	.00272
.801	5.890	.00000	.19827	.38928	-.20299	.01591	-.01086	.00276
.801	8.030	.00000	.18930	.51109	-.24451	.01785	-.01249	.00181
.801	10.120	.00000	.19039	.59127	-.25455	.01392	-.00995	.00406
	GRADIENT	.00000	-.00167	.05677	-.01945	.00044	-.00060	.00021

MSFC TWT 692.DTS + 10 DEG.RAMP(POS.3)- PLUME ON (SA6014) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 73/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.904	-11.500	-.02000	.23570	-.70332	.19084	.00754	-.00066	.00035
.904	-9.540	-.02000	.23950	-.57599	.14479	.00808	-.00004	.00013
.904	-7.310	-.02000	.23704	-.41367	.08318	.00624	.00042	.00076
.904	-5.100	-.02000	.23308	-.26695	.02699	.00954	-.00220	.00135
.904	-2.920	-.01000	.22941	-.13144	-.02598	.00862	-.00293	.00107
.904	-.750	-.01000	.22734	-.00469	-.07685	.00838	-.00349	.00020
.904	1.460	-.01000	.22626	.11586	-.11831	.01109	-.00587	.00117
.904	3.660	-.01000	.22442	.23761	-.15575	.01065	-.00603	.00172
.904	5.900	.00000	.22715	.36997	-.19249	.01057	-.00642	.00283
.904	8.080	.00000	.21486	.50224	-.24157	.01397	-.00917	.00279
.904	10.180	.00000	.20994	.60479	-.26744	.01058	-.00932	.00374
	GRADIENT	-.00000	-.00073	.05593	-.01962	.00040	-.00053	.00013

RUN NO. 55/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.100	-12.210	-.01000	.32713	-.92348	.29814	-.00114	.00332	-.00075
1.100	-10.020	-.01000	.32232	-.71521	.21295	.00102	.00151	-.00067
1.100	-7.690	-.01000	.32258	-.51585	.13435	.00243	.00052	-.00026
1.100	-5.380	-.01000	.32100	-.32657	.06302	.00305	.00007	.00016
1.100	-3.090	.00000	.32018	-.15014	-.00731	.00181	.00058	.00039
1.100	-.810	.00000	.31741	.01231	-.06876	.00027	.00088	.00061
1.100	1.440	.00000	.31129	.14655	-.11667	-.00026	.00100	-.00016
1.100	3.700	.00000	.30786	.27983	-.16354	-.00258	.00209	-.00075
1.100	5.960	.00000	.30205	.42515	-.21061	-.00229	.00120	-.00054
1.100	8.210	.00000	.28861	.56584	-.26526	-.00276	.00091	-.00005
1.100	10.370	.00000	.27877	.68818	-.29978	-.00527	.00340	-.00038
	GRADIENT	.00000	-.00190	.06297	-.02284	-.00061	.00021	-.00018

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON (SA6014) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 56/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.251	-12.250	-.01000	.31540	-.89254	.29304	.00014	.00279	-.00060
1.251	-10.080	-.01000	.31253	-.68567	.20254	.00143	.00181	.00020
1.251	-7.760	-.01000	.31831	-.48706	.12444	.00496	-.00125	.00086
1.251	-5.440	-.01000	.32429	-.30407	.05416	.00545	-.00133	.00116
1.251	-3.130	-.01000	.32599	-.13837	-.00765	.00446	-.00136	.00136
1.251	-.830	.00000	.32831	.00768	-.05749	.00369	-.00147	.00127
1.251	1.460	.00000	.32974	.14383	-.10015	.00400	-.00227	.00132
1.251	3.680	.00000	.32517	.26338	-.14445	.00303	-.00249	.00121
1.251	5.900	.00000	.32013	.39836	-.19071	.00345	-.00274	.00087
1.251	8.150	.00000	.30274	.53183	-.24417	.00255	-.00255	.00046
1.251	10.360	.00000	.28680	.65825	-.28333	.00247	-.00282	.00158
	GRADIENT	.00133	-.00004	.05906	-.01994	-.00017	-.00018	-.00002

RUN NO. 46/ 0 RN/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.460	-12.230	.00000	.30811	-.89996	.29751	.00323	-.00078	-.00002
1.460	-10.110	.00000	.29828	-.70857	.21588	.00161	.00032	.00019
1.460	-7.760	.00000	.29317	-.50652	.12960	-.00035	-.00004	.00014
1.460	-5.430	.00000	.29306	-.33025	.06313	.00190	-.00125	.00058
1.460	-3.100	.00000	.29339	-.16703	.00370	.00294	-.00218	.00094
1.460	-.840	.00000	.29019	-.02132	-.04603	.00109	-.00129	.00071
1.460	1.470	.00000	.29017	.11768	-.08981	.00042	-.00074	.00061
1.460	3.710	.00000	.28843	.24423	-.13015	.00052	-.00207	.00079
1.460	5.960	.00000	.28500	.36677	-.16859	.00002	-.00125	.00035
1.460	8.230	.00000	.27416	.49977	-.21424	.00066	-.00222	.00038
1.460	10.410	.00000	.26741	.62418	-.25296	.00284	-.00327	.00053
	GRADIENT	.00000	-.00065	.06037	-.01958	-.00035	.00004	-.00002

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON (SA6015) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 75/ 0 RN/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.802	-11.300	.00000	.22504	-.65143	.16635	-.00209	.00361	-.00130
.802	-9.340	.00000	.23156	-.53198	.11787	.00201	.00117	-.00078
.802	-7.180	-.01000	.23193	-.38873	.06379	.00523	-.00106	-.00010
.802	-4.970	-.01000	.22745	-.24737	.01150	.00884	-.00232	.00054
.802	-2.800	-.01000	.22038	-.11778	-.03704	.00186	.00183	-.00031
.802	-.660	-.01000	.21456	.00437	-.07791	.00388	.00068	.00019
.802	1.530	-.01000	.21322	.12835	-.12069	.00523	-.00031	.00098
.802	3.700	.00000	.20824	.25099	-.16038	.00392	-.00163	.00119
.802	5.880	.00000	.20103	.38217	-.20613	.00477	-.00384	.00099
.802	8.040	.00000	.19238	.50330	-.24792	.00739	-.00615	.00025
.802	10.120	.00000	.19482	.58539	-.25855	-.00043	-.00148	.00207
	GRADIENT	.00092	-.00210	.05735	-.01972	-.00030	-.00004	.00012

RUN NO. 76/ 0 RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.902	-11.600	.00000	.25246	-.73542	.20018	.00152	.00022	-.00136
.902	-9.610	.00000	.25236	-.59139	.14599	.00219	-.00053	-.00136
.902	-7.380	.00000	.25194	-.43755	.08867	-.00064	.00090	-.00068
.902	-5.150	.00000	.24538	-.28140	.02928	.00154	.00026	-.00018
.902	-2.920	.00000	.24071	-.13608	-.02667	.00201	.00036	-.00016
.902	-.730	-.01000	.23601	-.00332	-.07575	.00360	.00118	-.00001
.902	1.480	-.01000	.23186	.11971	-.11963	.00558	-.00113	.00071
.902	3.670	.00000	.22837	.24027	-.15988	.00526	-.00219	.00096
.902	5.870	.00000	.22625	.36890	-.20126	.00112	-.00157	.00135
.902	8.070	.00000	.21798	.50165	-.24996	-.00254	.00011	.00034
.902	10.180	.01000	.21509	.60712	-.27644	-.00559	.00162	.00128
	GRADIENT	-.00000	-.00187	.05696	-.02018	.00053	-.00045	.00019

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON (SA6015) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 58/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.099	-12.180	-.01000	.33233	-.92222	.29428	-.00875	.01015	-.00226
1.099	-10.060	-.01000	.33382	-.74192	.22748	-.00987	.01083	-.00214
1.099	-7.730	-.01000	.33083	-.53723	.14501	-.00789	.00945	-.00146
1.099	-5.410	-.01000	.33107	-.35684	.07737	-.00758	.00927	-.00123
1.099	-3.100	-.01000	.30315	-.18269	.00724	-.00590	.00777	-.00029
1.099	-.820	.00000	.29748	-.01160	-.05929	-.00569	.00698	.00004
1.099	1.420	.00000	.29047	.13076	-.11559	-.00625	.00704	-.00051
1.099	3.680	.00000	.28942	.26969	-.16550	-.00650	.00682	-.00101
1.099	5.960	.00000	.28579	.42218	-.21577	-.00618	.00659	-.00107
1.099	8.200	.00000	.28053	.56248	-.26660	-.00476	.00468	-.00055
1.099	10.420	.00000	.28208	.68981	-.30426	-.00885	.00658	-.00039
	GRADIENT	.00133	-.00213	.06642	-.02545	-.00010	-.00012	-.00012

RUN NO. 57/ 0 RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.251	-12.300	-.02000	.32402	-.93315	.31602	-.00076	.00543	-.00049
1.251	-10.100	-.01000	.31547	-.71554	.21892	-.00184	.00524	-.00035
1.251	-7.730	-.01000	.31724	-.51139	.13608	-.00087	.00485	-.00007
1.251	-5.430	-.02000	.30712	-.33081	.06705	-.00058	.00524	.00037
1.251	-3.160	-.01000	.30846	-.17053	.00758	-.00090	.00442	.00044
1.251	-.880	-.01000	.31179	-.02265	-.04485	-.00086	.00352	.00064
1.251	1.410	-.01000	.31218	.11589	-.08926	.00252	.00043	.00076
1.251	3.630	.00000	.31183	.24311	-.13936	.00296	-.00073	.00092
1.251	5.940	.00000	.30912	.38701	-.18991	.00196	.00033	.00056
1.251	8.190	.00000	.29320	.52336	-.24379	-.00006	.00090	.00038
1.251	10.280	.00000	.28811	.64883	-.28394	-.00235	.00240	.00073
	GRADIENT	.00132	.00047	.06089	-.02141	.00066	-.00082	.00007

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON (SA6015) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 43/ 0 RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.459	-12.290	-.01000	.31252	-.93831	.32128	.00339	.00060	-.00002
1.459	-10.140	-.01000	.30119	-.74500	.23937	.00108	.00203	.00008
1.459	-7.800	.00000	.29643	-.54597	.15499	-.00287	.00352	-.00028
1.459	-5.470	.00000	.28108	-.36581	.08437	-.00167	.00326	.00018
1.459	-3.170	.00000	.27451	-.20044	.02096	-.00033	.00125	.00016
1.459	-.860	.00000	.26962	-.05636	-.02835	-.00172	.00173	-.00006
1.459	1.410	.00000	.27040	.07821	-.06967	-.00207	.00224	.00021
1.459	3.670	.00000	.27143	.20792	-.11271	-.00463	.00295	-.00022
1.459	5.930	.00000	.26985	.34182	-.15931	-.00259	.00203	-.00007
1.459	8.210	.00000	.26006	.47655	-.20505	-.00269	.00177	-.00041
1.459	10.380	.00000	.25537	.60250	-.24617	-.00227	.00169	-.00043
	GRADIENT	.00000	-.00037	.05967	-.01941	-.00058	.00025	-.00004

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON (SA6016) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 78/ 0 RN/L = 6.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.804	-11.290	-.01000	.22221	-.64303	.16451	.00435	.00208	-.00071
.804	-9.340	-.01000	.22257	-.51088	.11356	.00628	.00052	-.00023
.804	-7.160	-.01000	.22446	-.37472	.06359	.00623	.00013	.00029
.804	-5.000	-.01000	.22099	-.24563	.01270	.00580	-.00088	.00032
.804	-2.820	-.01000	.21447	-.11655	-.03567	.00747	-.00152	.00053
.804	-.680	-.01000	.21034	.00253	-.07772	.00826	-.00282	.00089
.804	1.520	-.01000	.21195	.12674	-.12325	.00951	-.00408	.00156
.804	3.690	.00000	.20536	.25292	-.16159	.00767	-.00398	.00158
.804	5.890	.00000	.20202	.38435	-.20215	.01038	-.00685	.00182
.804	8.040	.00000	.19237	.50767	-.24415	.01112	-.00797	.00065
.804	10.110	.00000	.19393	.59219	-.25653	.00687	-.00515	.00304
	GRADIENT	.00092	-.00155	.05711	-.02008	.00027	-.00040	.00016

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON (SA6016) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 77/ 0 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.901	-11.550	-.02000	.24907	-.71980	.19793	.00529	.00091	-.00045
.901	-9.570	-.01000	.24671	-.58402	.14698	.00578	.00015	-.00073
.901	-7.340	-.01000	.24035	-.42236	.08468	.00427	.00087	-.00018
.901	-5.100	-.01000	.23507	-.27302	.02971	.00442	.00080	.00036
.901	-2.910	-.01000	.23601	-.13375	-.02716	.00472	-.00009	.00037
.901	-.760	-.01000	.23180	-.00563	-.07907	.00554	-.00117	-.00007
.901	1.470	-.01000	.22825	.11665	-.12201	.00729	-.00287	.00076
.901	3.670	-.01000	.22623	.23942	-.16053	.00898	-.00462	.00148
.901	5.890	.00000	.22747	.36882	-.19538	.00731	-.00409	.00245
.901	8.070	.00000	.21588	.50205	-.24511	.00857	-.00557	.00209
.901	10.200	.00000	.21276	.60834	-.27140	.00523	-.00497	.00282
	GRADIENT	.00000	-.00150	.05651	-.02016	.00066	-.00070	.00019

RUN NO. 59/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.099	-12.160	.00000	.31797	-.94290	.31415	-.00911	.00979	-.00238
1.099	-10.040	.00000	.31559	-.74100	.23041	-.00958	.01012	-.00175
1.099	-7.710	-.01000	.31802	-.53904	.14914	-.00843	.00952	-.00102
1.099	-5.400	-.01000	.31736	-.35233	.07687	-.00649	.00813	-.00037
1.099	-3.100	-.01000	.30966	-.17074	.00458	-.00562	.00728	.00020
1.099	-.810	-.01000	.30305	-.00146	-.06218	-.00446	.00597	.00034
1.099	1.440	.00000	.29464	.14404	-.12178	-.00543	.00622	-.00049
1.099	3.690	.00000	.29629	.27777	-.16725	-.00560	.00623	-.00086
1.099	5.970	.00000	.29256	.42806	-.21571	-.00607	.00659	-.00120
1.099	8.210	.00000	.28027	.56955	-.27101	-.00584	.00653	-.00104
1.099	10.410	.00000	.27490	.69268	-.30528	-.00656	.00744	-.00084
	GRADIENT	.00177	-.00215	.06593	-.02543	-.00004	-.00013	-.00018

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON (SA6016) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 60/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.250	-12.220	-.01000	.30702	-.92423	.31680	-.00396	.00747	-.00119
1.250	-10.080	-.01000	.30272	-.71117	.22023	-.00366	.00634	-.00024
1.250	-7.730	-.01000	.31068	-.51277	.14028	-.00255	.00584	.00025
1.250	-5.440	-.01000	.31589	-.32819	.06965	-.00151	.00548	.00103
1.250	-3.120	-.01000	.31555	-.16210	.00763	-.00002	.00346	.00108
1.250	-.820	-.01000	.31651	-.01168	-.04608	.00009	.00220	.00104
1.250	1.430	-.01000	.31780	.12326	-.08947	.00159	.00117	.00120
1.250	3.690	-.01000	.31776	.24952	-.13792	.00274	.00000	.00131
1.250	5.960	-.01000	.31254	.39123	-.18760	.00219	.00074	.00091
1.250	8.200	.00000	.29633	.52573	-.24093	-.00019	.00201	.00025
1.250	10.420	-.01000	.28325	.65471	-.28070	.00062	.00205	.00062
	GRADIENT	.00000	.00035	.06041	-.02117	.00043	-.00050	.00004

RUN NO. 42/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.460	-12.260	-.01000	.30109	-.91659	.30930	.00683	-.00247	.00016
1.460	-10.110	-.01000	.29270	-.72628	.22850	.00256	.00038	-.00014
1.460	-7.650	.00000	.28415	-.52169	.14229	-.00150	.00243	-.00016
1.460	-5.440	.00000	.28654	-.35166	.07668	.00039	.00161	.00044
1.460	-3.140	.00000	.28136	-.18895	.01590	.00128	.00011	.00062
1.460	-.850	.00000	.27591	-.04438	-.03261	-.00042	.00086	.00033
1.460	1.450	.00000	.27506	.08956	-.07353	-.00132	.00152	.00029
1.460	3.680	.00000	.27704	.21549	-.11365	-.00339	.00217	.00004
1.460	5.960	.00000	.27365	.34729	-.15934	-.00220	.00115	-.00001
1.460	8.240	.00000	.26461	.48444	-.20609	-.00215	.00051	.00015
1.460	10.420	.00000	.25689	.61227	-.24849	-.00132	.00005	.00009
	GRADIENT	.00000	-.00061	.05920	-.01888	-.00065	.00030	-.00008

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON (SA6017) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 79/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.802	-11.270	-.01000	.20890	-.63842	.16240	.00454	.00192	.00058
.802	-9.320	-.01000	.21100	-.50513	.11095	.00535	.00118	.00095
.802	-7.150	-.01000	.21118	-.36844	.05944	.00472	.00121	.00107
.802	-4.990	-.01000	.21104	-.23992	.00904	.00595	-.00074	.00107
.802	-2.840	-.01000	.20792	-.11745	-.03731	.01058	-.00355	.00129
.802	-.650	-.01000	.20485	.00893	-.08324	.00850	-.00323	.00118
.802	1.510	-.01000	.20150	.12769	-.12266	.00872	-.00398	.00146
.802	3.680	.00000	.19881	.25750	-.16232	.00726	-.00416	.00191
.802	5.880	.00000	.19536	.38716	-.20266	.00730	-.00489	.00163
.802	8.040	.00000	.18666	.51188	-.24567	.01135	-.00766	.00085
.802	10.140	.00000	.18974	.59279	-.25574	.00672	-.00497	.00301
	GRADIENT	.00092	-.00142	.05717	-.01974	.00003	-.00033	.00009

RUN NO. 80/ 0 RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.902	-11.590	-.02000	.23730	-.73668	.20665	.00571	.00074	.00015
.902	-9.580	-.02000	.23914	-.59139	.15182	.00438	.00262	.00034
.902	-7.340	-.02000	.23622	-.42978	.09027	.00607	.00038	.00099
.902	-5.120	-.02000	.23295	-.27667	.03261	.00839	-.00146	.00145
.902	-2.940	-.01000	.22954	-.13580	-.02387	.00550	.00012	.00113
.902	-.730	-.01000	.22697	-.00530	-.07743	.00706	-.00195	.00035
.902	1.440	-.01000	.22606	.11701	-.12004	.01035	-.00508	.00150
.902	3.630	.00000	.22495	.23930	-.15816	.00718	-.00368	.00158
.902	5.880	.00000	.22682	.37185	-.19489	.00951	-.00570	.00288
.902	8.040	.00000	.21588	.50326	-.24432	.01169	-.00811	.00258
.902	10.180	.00000	.21250	.60865	-.26950	.00524	-.00546	.00266
	GRADIENT	.00137	-.00067	.05702	-.02036	.00038	-.00066	.00011

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON (SA6017) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 62/ 0 RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.101	-12.200	.00000	.32067	-.92398	.30203	-.00661	.00750	-.00216
1.101	-10.090	-.01000	.31953	-.72814	.22132	-.00690	.00808	-.00149
1.101	-7.770	-.01000	.32278	-.53255	.14436	-.00654	.00777	-.00041
1.101	-5.460	.00000	.32175	-.34257	.07067	-.00324	.00485	.00018
1.101	-3.160	.00000	.31633	-.16155	-.00068	.00084	.00099	.00073
1.101	-.870	.00000	.31235	.00347	-.06560	-.00078	.00216	.00080
1.101	1.350	.00000	.30777	.14039	-.11655	-.00229	.00374	.00024
1.101	3.610	.00000	.30557	.27590	-.16399	-.00365	.00421	-.00044
1.101	5.910	.00000	.30059	.42264	-.21067	-.00518	.00493	-.00081
1.101	8.150	.00000	.28569	.56416	-.26779	-.00423	.00364	-.00036
1.101	10.360	.00000	.27827	.68646	-.30121	-.00773	.00588	-.00061
	GRADIENT	.00000	-.00164	.06434	-.02401	-.00066	.00050	-.00018

RUN NO. 61/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.251	-12.210	-.01000	.31110	-.90037	.29969	.00100	.00271	.00025
1.251	-10.080	-.01000	.31037	-.69633	.20988	-.00063	.00423	.00038
1.251	-7.760	-.01000	.31667	-.49403	.13041	-.00024	.00417	.00096
1.251	-5.450	-.01000	.32233	-.31728	.06527	.00555	-.00089	.00163
1.251	-3.130	-.01000	.32428	-.15024	.00197	.00600	-.00206	.00184
1.251	-.830	-.01000	.32504	-.00169	-.05065	.00505	-.00200	.00175
1.251	1.410	.00000	.32669	.13319	-.09334	.00619	-.00312	.00172
1.251	3.660	.00000	.32344	.25540	-.13948	.00587	-.00317	.00176
1.251	5.920	.00000	.31887	.39441	-.18765	.00501	-.00275	.00136
1.251	8.170	.00000	.30105	.52628	-.23994	.00627	-.00396	.00115
1.251	10.400	.00000	.28638	.65554	-.28058	.00360	-.00220	.00148
	GRADIENT	.00177	-.00004	.05980	-.02066	.00003	-.00020	-.00001

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON (SA6017) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 41/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.459	-12.220	-.01000	.30667	-.89754	.29620	.00716	-.00337	.00051
1.459	-10.070	.00000	.29676	-.70147	.21322	.00442	-.00178	.00038
1.459	-7.740	.00000	.28607	-.49455	.12627	.00146	-.00069	.00022
1.459	-5.410	.00000	.29123	-.32452	.05985	.00264	-.00069	.00062
1.459	-3.110	.00000	.28636	-.16050	-.00134	.00207	-.00075	.00063
1.459	-.830	.00000	.28482	-.01944	-.04754	.00104	-.00078	.00055
1.459	1.470	.00000	.28490	.11156	-.08493	.00008	.00021	.00032
1.459	3.730	.00000	.28349	.23609	-.12400	-.00119	.00001	.00038
1.459	5.980	.00000	.27852	.36157	-.16548	-.00061	-.00088	.00012
1.459	8.250	.01000	.26857	.49725	-.21229	-.00239	-.00031	.00010
1.459	10.430	.00000	.26053	.61968	-.25090	-.00088	-.00101	.00022
	GRADIENT	.00000	-.00037	.05788	-.01776	-.00047	.00014	-.00004

MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON (SA6018) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 66/ 0 RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.802	-11.300	-.01000	.20226	-.65142	.16638	.00125	.00399	-.00003
.802	-9.370	-.01000	.20216	-.52013	.11660	.00412	.00205	.00050
.802	-7.200	-.01000	.20271	-.38038	.06380	.00682	-.00009	.00122
.802	-5.030	-.02000	.20239	-.24734	.01243	.01122	-.00303	.00165
.802	-2.880	-.02000	.19998	-.12306	-.03656	.01245	-.00407	.00158
.802	-.720	-.01000	.19816	-.00548	-.07759	.01428	-.00618	.00199
.802	1.460	-.01000	.19322	.11364	-.11856	.01555	-.00827	.00250
.802	3.640	-.01000	.19145	.24143	-.15700	.01806	-.01008	.00337
.802	5.910	-.01000	.18725	.37680	-.19982	.02002	-.01255	.00325
.802	8.000	-.01000	.18028	.49564	-.23943	.01781	-.01137	.00251
.802	10.070	-.01000	.18029	.58348	-.25487	.01750	-.01127	.00439
	GRADIENT	.00138	-.00140	.05578	-.01850	.00083	-.00093	.00027

MSFC TWT 692,OTS + LARGE FAIRING · PLUME ON (SA6018) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 65/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
.901	-11.600	-.02000	.23088	-.74468	.20827	.00758	-.00082	-.00027
.901	-9.620	-.01000	.23057	-.60324	.15574	.00007	.00496	.00049
.901	-7.370	-.01000	.22650	-.43922	.09184	.00179	.00374	.00123
.901	-5.150	-.02000	.22338	-.28455	.03292	.00535	.00108	.00204
.901	-2.950	-.01000	.22161	-.14160	-.02402	.00713	-.00119	.00178
.901	-.780	-.01000	.21819	-.01226	-.07683	.01134	-.00530	.00112
.901	1.400	-.01000	.21698	.11119	-.12263	.01340	-.00720	.00167
.901	3.600	-.01000	.21932	.23258	-.15934	.01100	-.00550	.00214
.901	5.840	-.01000	.21850	.36324	-.19599	.01562	-.00833	.00366
.901	8.030	-.01000	.20884	.49922	-.24384	.01467	-.00890	.00283
.901	10.160	.00000	.20397	.60694	-.27276	.01050	-.00808	.00340
	GRADIENT	-.00000	-.00037	.05707	-.02069	.00062	-.00068	.00007

RUN NO. 63/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.101	-12.150	.00000	.31458	-.94495	.31610	-.01186	.01144	-.00308
1.101	-10.070	.00000	.31299	-.75661	.23823	-.01029	.01026	-.00254
1.101	-7.720	.00000	.31317	-.54826	.15290	-.00713	.00816	-.00161
1.101	-5.410	-.01000	.31296	-.35863	.07991	-.00549	.00744	-.00076
1.101	-3.110	.00000	.30331	-.17821	.00686	-.00565	.00661	.00009
1.101	-.830	.00000	.29938	-.00754	-.06172	-.00530	.00620	.00025
1.101	1.430	-.01000	.29611	.13519	-.11611	-.00400	.00563	-.00018
1.101	3.640	.00000	.29490	.26931	-.16441	-.00369	.00458	-.00056
1.101	5.940	.00000	.29074	.42036	-.21363	-.00288	.00387	-.00066
1.101	8.170	.00000	.27674	.56229	-.26889	-.00179	.00271	-.00046
1.101	10.360	.00000	.27142	.68722	-.30565	-.00357	.00358	-.00010
	GRADIENT	-.00045	-.00127	.06600	-.02525	.00032	-.00030	-.00011

MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON (SA6018) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 64/ 0 RN/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.252	-12.200	-.01000	.30466	-.92325	.31442	-.00926	.01000	-.00221
1.252	-10.090	-.01000	.30406	-.72464	.22647	-.00651	.00836	-.00122
1.252	-7.740	-.01000	.30803	-.51977	.14497	-.00458	.00681	-.00069
1.252	-5.430	-.01000	.31262	-.33933	.07512	-.00283	.00601	.00011
1.252	-3.130	-.01000	.31159	-.17589	.01418	-.00175	.00425	.00051
1.252	-.860	.00000	.31351	-.02701	-.03869	-.00126	.00298	.00089
1.252	1.410	.00000	.31460	.11236	-.08433	.00010	.00166	.00109
1.252	3.630	.00000	.31279	.24064	-.13597	.00146	.00073	.00100
1.252	5.920	.00000	.30953	.38351	-.18618	.00270	-.00067	.00109
1.252	8.170	.00000	.29483	.51594	-.23795	.00318	-.00165	.00092
1.252	10.360	.00000	.27969	.64689	-.28026	.00257	-.00082	.00111
	GRADIENT	.00133	.00021	.06160	-.02200	.00049	-.00053	.00007

RUN NO. 47/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAT	CN	CLM	CY	CYN	CBL
1.460	-12.240	-.01000	.29614	-.91682	.30715	.00178	.00068	-.00058
1.460	-10.120	.00000	.29030	-.73321	.23174	.00246	-.00015	.00004
1.460	-7.780	.00000	.28434	-.53106	.14648	.00042	.00026	.00009
1.460	-5.460	.00000	.28481	-.36061	.08245	.00257	-.00034	.00075
1.460	-3.160	.00000	.27870	-.19747	.02238	.00250	-.00100	.00065
1.460	-.880	.00000	.27448	-.05791	-.02423	.00139	-.00050	.00056
1.460	1.420	.00000	.27144	.07605	-.06544	-.00098	.00106	-.00005
1.460	3.670	.00000	.27216	.20205	-.10599	-.00440	.00287	-.00057
1.460	5.910	.00000	.27252	.33420	-.15196	-.00162	.00126	-.00022
1.460	8.180	.00000	.26286	.47129	-.20029	-.00236	.00120	-.00029
1.460	10.360	.00000	.25856	.59878	-.24154	-.00165	.00149	-.00009
	GRADIENT	.00000	-.00100	.05847	-.01871	-.00101	.00058	-.00019

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (TA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 81/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.601	-10.880	-.04364	-.00824	-.02033	.01719	.00723	22.00000	17.23300	4.35800
.601	-8.950	-.02292	-.00470	-.01531	.00926	.00636	22.00000	17.23300	4.35800
.601	-6.860	.00168	-.00038	-.00979	.00978	.00271	22.00000	17.23300	4.35800
.601	-4.760	.02569	.00369	-.00336	.01413	.00459	22.00000	17.23300	4.35800
.601	-2.680	.04982	.00786	.00275	.01720	.00750	22.00000	17.23300	4.35800
.601	-.570	.07417	.01194	.00949	.01842	.00799	22.00000	17.23300	4.35800
.601	1.540	.09644	.01598	.01592	.01798	.00512	22.00000	17.23300	4.35800
.601	3.650	.12277	.02075	.02235	.02004	-.00006	22.00000	17.23300	4.35800
.601	5.780	.14777	.02564	.02837	.01938	-.00657	22.00000	17.23300	4.35800
.601	7.870	.17247	.03046	.03429	.01712	-.01154	22.00000	17.23300	4.35800
.601	9.900	.19123	.03453	.03924	.01260	-.01876	22.00000	17.23300	4.35800
	GRADIENT	.01144	.00201	.00307	.00060	-.00056	.00000	.00000	.00000

RUN NO. 1/ 0 RN/L = 5.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.801	-11.230	-.05129	-.00989	-.02225	.01951	.00803	22.01700	14.41600	6.48800
.801	-9.320	-.02887	-.00605	-.01742	.01363	.00220	22.01700	14.41600	6.48800
.801	-7.160	-.00417	-.00157	-.01178	.01179	-.00069	22.01700	14.41600	6.48800
.801	-5.020	.02256	.00311	-.00519	.01542	.00039	22.01700	14.41600	6.48800
.801	-2.840	.04992	.00802	.00111	.01740	.00765	22.01700	14.41600	6.48800
.801	-.700	.07701	.01274	.00785	.02016	.01061	22.01700	14.41600	6.48800
.801	1.520	.10441	.01766	.01537	.02302	.01154	22.01700	14.41600	6.48800
.801	3.710	.13293	.02293	.02236	.02534	.00258	22.01700	14.41600	6.48800
.801	5.910	.15991	.02785	.02864	.02428	-.01005	22.01700	14.41600	6.48800
.801	8.060	.18159	.03125	.03339	.02278	-.02236	22.01700	14.41600	6.48800
.801	9.980	.18409	.03068	.03553	.01310	-.03287	22.01700	14.41600	6.48800
	GRADIENT	.01264	.00227	.00326	.00122	-.00066	.00000	.00000	.00000

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (TA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 2/ O RN/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.901	-11.630	-.06408	-.01161	-.02554	.00825	-.00080	22.03000	13.00400	7.39700
.901	-9.600	-.04212	-.00788	-.02066	.00473	-.00603	22.03000	13.00400	7.39700
.901	-7.380	-.02400	-.00519	-.01355	.00368	-.00027	22.03000	13.00400	7.39700
.901	-5.140	.00444	.00022	-.00760	.00619	.00267	22.03000	13.00400	7.39700
.901	-2.940	.03470	.00566	-.00084	.00995	.00528	22.03000	13.00400	7.39700
.901	-.770	.06533	.01124	.00599	.01349	.01181	22.03000	13.00400	7.39700
.901	1.430	.09303	.01529	.01469	.01704	.00857	22.03000	13.00400	7.39700
.901	3.610	.12030	.01977	.02080	.01537	-.00547	22.03000	13.00400	7.39700
.901	5.820	.14392	.02360	.02617	.01525	-.01706	22.03000	13.00400	7.39700
.901	8.040	.17140	.02848	.03057	.01205	-.03098	22.03000	13.00400	7.39700
.901	10.140	.18153	.02978	.03280	.00639	-.04196	22.03000	13.00400	7.39700
	GRADIENT	.01302	.00212	.00337	.00091	-.00163	-.00000	.00000	-.00000

RUN NO. 82/ O RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.950	-11.770	-.07435	-.01365	-.02597	.01763	.00186	22.00800	12.30100	7.78400
.950	-9.770	-.04748	-.00916	-.02076	.01389	-.00115	22.00800	12.30100	7.78400
.950	-7.500	-.02194	-.00462	-.01540	.00971	.00101	22.00800	12.30100	7.78400
.950	-5.270	.00417	.00046	-.01001	.01248	.00509	22.00800	12.30100	7.78400
.950	-3.050	.03228	.00548	-.00375	.01195	.01047	22.00800	12.30100	7.78400
.950	-.810	.06297	.01088	.00309	.00938	.00975	22.00800	12.30100	7.78400
.950	1.370	.09527	.01609	.01180	.00643	.00726	22.00800	12.30100	7.78400
.950	3.570	.12393	.02106	.01747	.00496	.00218	22.00800	12.30100	7.78400
.950	5.780	.15419	.02604	.02332	.00297	-.00933	22.00800	12.30100	7.78400
.950	8.010	.17714	.02988	.02780	.00275	-.02277	22.00800	12.30100	7.78400
.950	10.170	.19037	.03210	.03076	-.00324	-.03561	22.00800	12.30100	7.78400
	GRADIENT	.01394	.00236	.00328	-.00109	-.00124	-.00000	.00000	.00000

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (TA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 83/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.050	-12.030	-.08198	-.01493	-.02038	.01544	.00755	21.99900	10.94300	8.45600
1.050	-9.940	-.05274	-.00970	-.01505	.00911	.00868	21.99900	10.94300	8.45600
1.050	-7.620	-.02286	-.00425	-.00915	.00271	.01081	21.99900	10.94300	8.45600
1.050	-5.320	.00869	.00133	-.00280	-.00029	.01490	21.99900	10.94300	8.45600
1.050	-3.070	.03940	.00681	.00401	.00021	.01654	21.99900	10.94300	8.45600
1.050	-.780	.07263	.01290	.01060	.00465	.01132	21.99900	10.94300	8.45600
1.050	1.430	.10622	.01876	.01623	.00677	.00494	21.99900	10.94300	8.45600
1.050	3.650	.13285	.02318	.02080	.01253	-.00493	21.99900	10.94300	8.45600
1.050	5.910	.16154	.02818	.02476	.01181	-.02128	21.99900	10.94300	8.45600
1.050	8.140	.18222	.03184	.02836	.00777	-.03681	21.99900	10.94300	8.45600
1.050	10.310	.19160	.03326	.03137	.00803	-.04785	21.99900	10.94300	8.45600
	GRADIENT	.01404	.00246	.00250	.00175	-.00316	.00000	.00000	.00000

RUN NO. 3/ 0 RN/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.100	-12.250	-.09931	-.01779	-.01807	.05526	.01234	22.01800	10.30100	8.73800
1.100	-10.110	-.06793	-.01212	-.01354	.04816	.00725	22.01800	10.30100	8.73800
1.100	-7.800	-.03551	-.00616	-.00824	.03941	.00709	22.01800	10.30100	8.73800
1.100	-5.480	-.00025	.00024	-.00209	.03219	.01525	22.01800	10.30100	8.73800
1.100	-3.170	.03963	.00767	.00392	.02810	.01316	22.01800	10.30100	8.73800
1.100	-.910	.07945	.01437	.01012	.02483	.00003	22.01800	10.30100	8.73800
1.100	1.370	.11471	.02041	.01543	.02009	-.01800	22.01800	10.30100	8.73800
1.100	3.580	.14445	.02548	.01958	.01672	-.03090	22.01800	10.30100	8.73800
1.100	5.830	.17132	.02996	.02350	.01399	-.04255	22.01800	10.30100	8.73800
1.100	8.110	.19411	.03364	.02703	.00138	-.05349	22.01800	10.30100	8.73800
1.100	10.260	.20536	.03510	.03057	-.00516	-.06257	22.01800	10.30100	8.73800
	GRADIENT	.01553	.00264	.00232	-.00173	-.00667	-.00000	.00000	.00000

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (TA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 84/ 0 RN/L = 6.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.153	-12.360	-.10134	-.01798	-.01715	.05692	.01553	21.99100	9.62700	8.96800
1.153	-10.180	-.07182	-.01269	-.01257	.05493	.00990	21.99100	9.62700	8.96800
1.153	-7.840	-.03340	-.00581	-.00712	.04881	.01226	21.99100	9.62700	8.96800
1.153	-5.520	.00520	.00125	-.00250	.04306	.00728	21.99100	9.62700	8.96800
1.153	-3.250	.04217	.00794	.00252	.03984	-.00591	21.99100	9.62700	8.96800
1.153	-.930	.08174	.01484	.00793	.03419	-.01987	21.99100	9.62700	8.96800
1.153	1.330	.11470	.02039	.01332	.03149	-.03652	21.99100	9.62700	8.96800
1.153	3.560	.14383	.02515	.01838	.02393	-.04971	21.99100	9.62700	8.96800
1.153	5.850	.17326	.03025	.02298	.01422	-.05644	21.99100	9.62700	8.96800
1.153	8.060	.19646	.03452	.02631	-.00284	-.06561	21.99100	9.62700	8.96800
1.153	10.280	.21572	.03769	.02914	-.01619	-.07242	21.99100	9.62700	8.96800
	GRADIENT	.01490	.00252	.00233	-.00222	-.00652	-.00000	-.00000	-.00000

RUN NO. 4/ 0 RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.251	-12.250	-.09283	-.01682	-.01427	.05455	.01483	22.01600	8.48900	9.29800
1.251	-10.170	-.06273	-.01133	-.01002	.05392	.01174	22.01600	8.48900	9.29800
1.251	-7.830	-.02774	-.00496	-.00548	.04844	.01115	22.01600	8.48900	9.29800
1.251	-5.510	.00679	.00161	-.00127	.04314	.00458	22.01600	8.48900	9.29800
1.251	-3.220	.04283	.00822	.00330	.03944	-.00683	22.01600	8.48900	9.29800
1.251	-.940	.07968	.01456	.00827	.03807	-.02022	22.01600	8.48900	9.29800
1.251	1.360	.11454	.02022	.01370	.03608	-.03492	22.01600	8.48900	9.29800
1.251	3.580	.14168	.02461	.01855	.02958	-.04768	22.01600	8.48900	9.29800
1.251	5.830	.16660	.02902	.02199	.02002	-.05524	22.01600	8.48900	9.29800
1.251	8.100	.18719	.03262	.02488	.00267	-.06196	22.01600	8.48900	9.29800
1.251	10.230	.19980	.03479	.02692	-.00802	-.06791	22.01600	8.48900	9.29800
	GRADIENT	.01461	.00242	.00225	-.00139	-.00605	.00000	.00000	.00000

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (TA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 34/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.460	-12.360	-.06471	-.01133	-.01280	.05472	.01982	22.02000	6.34900	9.48000
1.460	-10.240	-.04247	-.00735	-.01187	.05491	.00546	22.02000	6.34900	9.48000
1.460	-7.900	-.01847	-.00339	-.00977	.04785	-.00996	22.02000	6.34900	9.48000
1.460	-5.570	.00860	.00128	-.00746	.03358	-.02523	22.02000	6.34900	9.48000
1.460	-3.240	.04154	.00695	-.00416	.02135	-.03515	22.02000	6.34900	9.48000
1.460	-.960	.07636	.01294	-.00009	.00983	-.04433	22.02000	6.34900	9.48000
1.460	1.350	.11257	.01917	.00488	.00200	-.05154	22.02000	6.34900	9.48000
1.460	3.600	.14315	.02413	.01067	-.00254	-.05680	22.02000	6.34900	9.48000
1.460	5.850	.16685	.02810	.01577	-.01344	-.06442	22.02000	6.34900	9.48000
1.460	8.120	.18444	.03124	.01942	-.02290	-.06988	22.02000	6.34900	9.48000
1.460	10.290	.19278	.03283	.02108	-.03008	-.07338	22.02000	6.34900	9.48000
	GRADIENT	.01494	.00253	.00217	-.00348	-.00316	.00000	.00000	.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF (TA6002) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 8/ 0 RN/L = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.801	-11.310	-.05632	-.01047	-.02392	.01714	.00857	22.00900	14.41700	6.48200
.801	-9.340	-.03269	-.00642	-.01908	.01151	.00251	22.00900	14.41700	6.48200
.801	-7.180	-.00880	-.00214	-.01322	.01060	-.00065	22.00900	14.41700	6.48200
.801	-4.990	.01808	.00276	-.00683	.01428	.00161	22.00900	14.41700	6.48200
.801	-2.840	.04442	.00736	-.00043	.01676	.00769	22.00900	14.41700	6.48200
.801	-.680	.07127	.01212	.00638	.01925	.01112	22.00900	14.41700	6.48200
.801	1.500	.09930	.01705	.01417	.02331	.01136	22.00900	14.41700	6.48200
.801	3.680	.12650	.02198	.02102	.02500	.00369	22.00900	14.41700	6.48200
.801	5.880	.15439	.02701	.02744	.02548	-.00856	22.00900	14.41700	6.48200
.801	8.030	.18094	.03203	.03282	.02154	-.02022	22.00900	14.41700	6.48200
.801	10.090	.18150	.03044	.03509	.01543	-.03101	22.00900	14.41700	6.48200
	GRADIENT	.01253	.00222	.00324	.00129	.00036	-.00000	-.00000	-.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF (TA6002) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 7/ 0 RN/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.900	-11.600	-.06755	-.01198	-.02706	.00637	.00046	22.01000	13.00200	7.38400
.900	-9.610	-.04550	-.00839	-.02194	.00285	-.00449	22.01000	13.00200	7.38400
.900	-7.350	-.02610	-.00551	-.01449	.00358	-.00240	22.01000	13.00200	7.38400
.900	-5.150	00149	-.00016	-.00858	.00443	.00160	22.01000	13.00200	7.38400
.900	-2.960	.03144	.00519	-.00178	.00597	.00500	22.01000	13.00200	7.38400
.900	-.760	.06299	.01091	.00531	.00887	.01051	22.01000	13.00200	7.38400
.900	1.460	.09086	.01511	.01372	.01602	.00887	22.01000	13.00200	7.38400
.900	3.640	.11950	.01982	.02007	.01549	-.00594	22.01000	13.00200	7.38400
.900	5.870	.14375	.02367	.02561	.01655	-.01691	22.01000	13.00200	7.38400
.900	8.040	.16876	.02803	.03020	.01179	-.03042	22.01000	13.00200	7.38400
.900	10.140	.18159	.02977	.03305	.00721	-.04164	22.01000	13.00200	7.38400
	GRADIENT	.01326	.00218	.00336	.00162	-.00156	.00000	.00000	.00000

RUN NO. 6/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.101	-12.210	-.11314	-.01976	-.02028	.04890	.01463	22.01000	10.29300	8.73700
1.101	-10.110	-.08251	-.01427	-.01594	.03903	.00727	22.01000	10.29300	8.73700
1.101	-7.790	-.04894	-.00815	-.01079	.03071	.00457	22.01000	10.29300	8.73700
1.101	-5.460	-.01427	-.00191	-.00484	.02743	.01091	22.01000	10.29300	8.73700
1.101	-3.180	.02435	.00542	.00051	.02329	.01278	22.01000	10.29300	8.73700
1.101	-.900	.06548	.01268	.00629	.02054	.00036	22.01000	10.29300	8.73700
1.101	1.350	.10098	.01879	.01195	.02015	-.01941	22.01000	10.29300	8.73700
1.101	3.590	.13391	.02415	.01728	.01912	-.03015	22.01000	10.29300	8.73700
1.101	5.860	.16315	.02883	.02230	.01691	-.04157	22.01000	10.29300	8.73700
1.101	8.060	.18652	.03270	.02603	.00600	-.05293	22.01000	10.29300	8.73700
1.101	10.230	.19981	.03453	.02983	.00008	-.06180	22.01000	10.29300	8.73700
	GRADIENT	.01615	.00276	.00248	-.00057	-.00659	.00000	.00000	-.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF (TA6002) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 5/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.251	-12.320	-.10808	-.01908	-.01602	.05936	.01974	22.00600	8.48000	9.29400
1.251	-10.180	-.07766	-.01346	-.01196	.05525	.01630	22.00600	8.48000	9.29400
1.251	-7.840	-.04159	-.00698	-.00749	.04940	.01128	22.00600	8.48000	9.29400
1.251	-5.540	-.00695	-.00043	-.00363	.04430	.00349	22.00600	8.48000	9.29400
1.251	-3.250	.02830	.00606	.00054	.04131	-.00880	22.00600	8.48000	9.29400
1.251	-.950	.06424	.01233	.00517	.03846	-.02154	22.00600	8.48000	9.29400
1.251	1.320	.09904	.01819	.01045	.03605	-.03529	22.00600	8.48000	9.29400
1.251	3.560	.12933	.02305	.01609	.03204	-.04777	22.00600	8.48000	9.29400
1.251	5.820	.15785	.02789	.02061	.02155	-.05557	22.00600	8.48000	9.29400
1.251	8.020	.18002	.03177	.02397	.00453	-.06235	22.00600	8.48000	9.29400
1.251	10.200	.19456	.03410	.02667	-.00698	-.06815	22.00600	8.48000	9.29400
	GRADIENT	.01489	.00250	.00229	-.00133	-.00576	-.00000	-.00000	.00000

RUN NO. 35/ 0 RN/L = 6.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.461	-12.360	-.07541	-.01285	-.01267	.06289	.02015	22.00600	6.33500	9.47300
1.461	-10.250	-.05394	-.00921	-.01142	.05911	.00641	22.00600	6.33500	9.47300
1.461	-7.910	-.02992	-.00518	-.00954	.04983	-.00957	22.00600	6.33500	9.47300
1.461	-5.590	-.00300	-.00054	-.00741	.03635	-.02588	22.00600	6.33500	9.47300
1.461	-3.260	.02865	.00504	-.00457	.02426	-.03693	22.00600	6.33500	9.47300
1.461	-.970	.06116	.01065	-.00093	.01336	-.04748	22.00600	6.33500	9.47300
1.461	1.310	.09560	.01659	.00350	.00389	-.05511	22.00600	6.33500	9.47300
1.461	3.580	.12680	.02182	.00862	-.00312	-.05908	22.00600	6.33500	9.47300
1.461	5.830	.15301	.02620	.01367	-.01338	-.06456	22.00600	6.33500	9.47300
1.461	8.100	.17196	.02957	.01710	-.02315	-.07029	22.00600	6.33500	9.47300
1.461	10.270	.18168	.03133	.01936	-.02810	-.07316	22.00600	6.33500	9.47300
	GRADIENT	.01443	.00247	.00193	-.00402	-.00325	.00000	-.00000	-.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF (TA6003) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 9/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.801	-11.310	-.05687	-.01045	-.02374	.01766	.00961	22.01000	14.42200	6.47900
.801	-9.330	-.03352	-.00654	-.01902	.01350	.00204	22.01000	14.42200	6.47900
.801	-7.170	-.00903	-.00232	-.01287	.01099	-.00043	22.01000	14.42200	6.47900
.801	-5.000	.01827	.00266	-.00630	.01487	.00070	22.01000	14.42200	6.47900
.801	-2.860	.04530	.00742	.00014	.01758	.00809	22.01000	14.42200	6.47900
.801	-.680	.07305	.01229	.00714	.02043	.01064	22.01000	14.42200	6.47900
.801	1.520	.09950	.01700	.01480	.02425	.01146	22.01000	14.42200	6.47900
.801	3.680	.12742	.02212	.02170	.02580	.00306	22.01000	14.42200	6.47900
.801	5.880	.15515	.02712	.02807	.02585	-.00964	22.01000	14.42200	6.47900
.801	8.030	.17834	.03087	.03315	.02260	-.02086	22.01000	14.42200	6.47900
.801	10.090	.18192	.03056	.03564	.01599	-.03100	22.01000	14.42200	6.47900
	GRADIENT	.01253	.00223	.00325	.00131	.00037	-.00000	.00000	-.00000

RUN NO. 10/ 0 RN/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.901	-11.610	-.06818	-.01206	-.02709	.00522	.00004	22.01100	12.98900	7.39300
.901	-9.600	-.04540	-.00830	-.02187	.00166	-.00518	22.01100	12.98900	7.39300
.901	-7.370	-.02680	-.00561	-.01457	.00284	-.00164	22.01100	12.98900	7.39300
.901	-5.140	.00159	-.00013	-.00848	.00359	.00149	22.01100	12.98900	7.39300
.901	-2.940	.03149	.00512	-.00162	.00536	.00527	22.01100	12.98900	7.39300
.901	-.750	.06350	.01092	.00559	.00832	.00812	22.01100	12.98900	7.39300
.901	1.460	.09133	.01516	.01415	.01532	.00608	22.01100	12.98900	7.39300
.901	3.630	.11860	.01963	.02042	.01547	-.00769	22.01100	12.98900	7.39300
.901	5.870	.14431	.02378	.02594	.01521	-.01802	22.01100	12.98900	7.39300
.901	8.040	.16884	.02803	.03057	.01142	-.03175	22.01100	12.98900	7.39300
.901	10.140	.18232	.02996	.03321	.00547	-.04283	22.01100	12.98900	7.39300
	GRADIENT	.01319	.00218	.00341	.00170	-.00186	.00000	.00000	.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF (TA6003) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 11/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.100	-12.230	-.11089	-.01942	-.01940	.04914	.01402	22.01100	10.30300	8.73300
1.100	-10.110	-.07859	-.01367	-.01494	.03969	.00758	22.01100	10.30300	8.73300
1.100	-7.800	-.04324	-.00739	-.00944	.03212	.00458	22.01100	10.30300	8.73300
1.100	-5.440	-.00754	-.00091	-.00325	.02834	.01283	22.01100	10.30300	8.73300
1.100	-3.170	.03270	.00674	.00222	.02266	.01180	22.01100	10.30300	8.73300
1.100	-.890	.07276	.01374	.00832	.02235	-.00178	22.01100	10.30300	8.73300
1.100	1.370	.10834	.01978	.01401	.01970	-.02079	22.01100	10.30300	8.73300
1.100	3.600	.14084	.02511	.01922	.01696	-.03131	22.01100	10.30300	8.73300
1.100	5.890	.16927	.02972	.02395	.01337	-.04280	22.01100	10.30300	8.73300
1.100	8.110	.19188	.03338	.02750	.00220	-.05395	22.01100	10.30300	8.73300
1.100	10.260	.20461	.03517	.03104	-.00395	-.06321	22.01100	10.30300	8.73300
	GRADIENT	.01595	.00271	.00251	-.00087	-.00657	-.00000	.00000	-.00000

RUN NO. 12/ 0 RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.250	-12.280	-.10529	-.01876	-.01453	.05945	.01482	22.00700	8.48900	9.29300
1.250	-10.150	-.07286	-.01277	-.01064	.05472	.01174	22.00700	8.48900	9.29300
1.250	-7.830	-.03694	-.00615	-.00663	.04873	.01055	22.00700	8.48900	9.29300
1.250	-5.490	-.00033	.00068	-.00239	.04327	.00328	22.00700	8.48900	9.29300
1.250	-3.110	.03667	.00744	.00204	.03983	-.00993	22.00700	8.48900	9.29300
1.250	-.920	.07201	.01352	.00683	.03736	-.02215	22.00700	8.48900	9.29300
1.250	1.380	.10775	.01945	.01224	.03526	-.03671	22.00700	8.48900	9.29300
1.250	3.590	.13593	.02402	.01754	.02970	-.04848	22.00700	8.48900	9.29300
1.250	5.880	.16471	.02891	.02216	.01773	-.05574	22.00700	8.48900	9.29300
1.250	8.090	.18586	.03260	.02532	.00019	-.06201	22.00700	8.48900	9.29300
1.250	10.260	.19746	.03464	.02734	-.01017	-.06784	22.00700	8.48900	9.29300
	GRADIENT	.01489	.00249	.00232	-.00145	-.00581	-.00000	.00000	.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF (TA6003) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 36/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.459	-12.390	-.07122	-.01240	-.01032	.06176	.01486	22.00400	6.34900	9.47300
1.459	-10.240	-.04991	-.00874	-.00922	.05847	.00131	22.00400	6.34900	9.47300
1.459	-7.910	-.02597	-.00470	-.00738	.05160	-.01412	22.00400	6.34900	9.47300
1.459	-5.580	.00066	.00008	-.00558	.03819	-.02886	22.00400	6.34900	9.47300
1.459	-3.270	.03229	.00564	-.00289	.02490	-.04093	22.00400	6.34900	9.47300
1.459	-.970	.06618	.01151	.00074	.01402	-.05010	22.00400	6.34900	9.47300
1.459	1.310	.09960	.01717	.00493	.00360	-.05635	22.00400	6.34900	9.47300
1.459	3.570	.13147	.02249	.00977	-.00222	-.06061	22.00400	6.34900	9.47300
1.459	5 840	.15630	.02676	.01439	-.01349	-.06560	22.00400	6.34900	9.47300
1.459	8.100	.17559	.03011	.01792	-.02299	-.07119	22.00400	6.34900	9.47300
1.459	10.280	.18531	.03178	.02034	-.02885	-.07386	22.00400	6.34900	9.47300
	GRADIENT	.01452	.00247	.00185	-.00403	-.00287	.00000	.00000	-.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF (TA6004) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 16/ 0 RN/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.800	-11.320	-.05711	-.01034	-.02377	.01746	.00882	22.01700	14.43200	6.47700
.800	-9.340	-.03140	-.00615	-.01822	.01136	.00280	22.01700	14.43200	6.47700
.800	-7.150	-.00555	-.00171	-.01240	.01070	-.00004	22.01700	14.43200	6.47700
.800	-4.990	.02134	.00314	-.00554	.01451	.00200	22.01700	14.43200	6.47700
.800	-2.840	.04563	.00749	.00091	.01684	.00844	22.01700	14.43200	6.47700
.800	-.680	.07145	.01217	.00782	.02019	.01125	22.01700	14.43200	6.47700
.800	1.500	.09841	.01688	.01551	.02320	.01210	22.01700	14.43200	6.47700
.800	3.670	.12605	.02197	.02237	.02547	.00401	22.01700	14.43200	6.47700
.800	5.870	.15523	.02727	.02878	.02486	-.00859	22.01700	14.43200	6.47700
.800	8.020	.17815	.03091	.03380	.02239	-.02047	22.01700	14.43200	6.47700
.800	10.120	.18138	.03050	.03606	.01495	-.03115	22.01700	14.43200	6.47700
	GRADIENT	.01211	.00217	.00325	.00131	.00035	-.00000	-.00000	-.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF (TA6004) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 15/ 0 RN/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.900	-11.600	-.06940	-.01202	-.02655	.00495	-.00023	22.01300	13.01300	7.38000
.900	-9.600	-.04581	-.00816	-.02136	.00042	-.00495	22.01300	13.01300	7.38000
.900	-7.350	-.02555	-.00521	-.01427	.00130	-.00262	22.01300	13.01300	7.38000
.900	-5.160	.00094	-.00044	-.00773	.00251	.00190	22.01300	13.01300	7.38000
.900	-2.940	.03194	.00535	-.00110	.00379	.00532	22.01300	13.01300	7.38000
.900	-.760	.06397	.01115	.00612	.00799	.00984	22.01300	13.01300	7.38000
.900	1.440	.09152	.01529	.01463	.01479	.00623	22.01300	13.01300	7.38000
.900	3.610	.11837	.01962	.02085	.01482	-.00607	22.01300	13.01300	7.38000
.900	5.840	.14315	.02361	.02632	.01396	-.01809	22.01300	13.01300	7.38000
.900	8.030	.17000	.02836	.03090	.01062	-.03144	22.01300	13.01300	7.38000
.900	10.160	.18498	.03046	.03376	.00457	-.04376	22.01300	13.01300	7.38000
	GRADIENT	.01313	.00215	.00340	.00183	-.00173	-.00000	.00000	.00000

RUN NO. 14/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.098	-12.220	-.10761	-.01907	-.01793	.05172	.01293	22.01300	10.32800	8.72500
1.098	-10.120	-.07736	-.01349	-.01368	.04331	.00526	22.01300	10.32800	8.72500
1.098	-7.790	-.04167	-.00729	-.00830	.03383	.00400	22.01300	10.32800	8.72500
1.098	-5.480	-.00517	-.00071	-.00212	.02887	.01276	22.01300	10.32800	8.72500
1.098	-3.210	.03593	.00692	.00355	.02314	.01451	22.01300	10.32800	8.72500
1.098	-.890	.07589	.01406	.00934	.02425	-.00123	22.01300	10.32800	8.72500
1.098	1.340	.11166	.02010	.01500	.01990	-.01859	22.01300	10.32800	8.72500
1.098	3.580	.14328	.02539	.01994	.01830	-.03164	22.01300	10.32800	8.72500
1.098	5.840	.17155	.03005	.02464	.01470	-.04218	22.01300	10.32800	8.72500
1.098	8.100	.19437	.03375	.02828	.00138	-.05361	22.01300	10.32800	8.72500
1.098	10.280	.20546	.03518	.03186	-.00419	-.06219	22.01300	10.32800	8.72500
	GRADIENT	.01584	.00272	.00243	-.00083	-.00689	-.00000	-.00000	-.00000

MSFC TWT 692,DTS + 10 DEG.RAMP(POS.3)- PLUME OFF (TA6004) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 13/ 0 RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.250	-12.300	-.10129	-.01812	-.01307	.05956	.01678	22.02400	8.49400	9.30000
1.250	-10.170	-.06917	-.01251	-.00896	.05719	.01118	22.02400	8.49400	9.30000
1.250	-7.830	-.03327	-.00594	-.00478	.05151	.01003	22.02400	8.49400	9.30000
1.250	-5.510	.00232	.00083	-.00111	.04451	.00345	22.02400	8.49400	9.30000
1.250	-3.220	.03809	.00742	.00292	.04084	-.00904	22.02400	8.49400	9.30000
1.250	-.920	.07614	.01394	.00805	.03881	-.02176	22.02400	8.49400	9.30000
1.250	1.380	.11160	.01987	.01333	.03643	-.03644	22.02400	8.49400	9.30000
1.250	3.590	.13885	.02434	.01835	.03056	-.04810	22.02400	8.49400	9.30000
1.250	5.830	.16585	.02894	.02258	.01925	-.05489	22.02400	8.49400	9.30000
1.250	8.090	.18707	.03270	.02572	.00149	-.06148	22.02400	8.49400	9.30000
1.250	10.280	.19900	.03477	.02790	-.01038	-.06721	22.02400	8.49400	9.30000
	GRADIENT	.01487	.00250	.00227	-.00146	-.00580	-.00000	.00000	-.00000

RUN NO. 37/ 0 RN/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.462	-12.380	-.06510	-.01133	-.01004	.06082	.01544	22.01000	6.33000	9.47500
1.462	-10.260	-.04285	-.00757	-.00880	.05767	.00095	22.01000	6.33000	9.47500
1.462	-7.920	-.01888	-.00346	-.00722	.05029	-.01397	22.01000	6.33000	9.47500
1.462	-5.580	.00828	.00130	-.00514	.03716	-.02900	22.01000	6.33000	9.47500
1.462	-3.270	.04093	.00701	-.00214	.02347	-.04023	22.01000	6.33000	9.47500
1.462	-.960	.07569	.01301	.00182	.01295	-.04876	22.01000	6.33000	9.47500
1.462	1.320	.10831	.01846	.00639	.00269	-.05452	22.01000	6.33000	9.47500
1.462	3.580	.13822	.02335	.01138	-.00229	-.06010	22.01000	6.33000	9.47500
1.462	5.830	.16233	.02751	.01597	-.01421	-.06613	22.01000	6.33000	9.47500
1.462	8.110	.18129	.03077	.01954	-.02536	-.07202	22.01000	6.33000	9.47500
1.462	10.260	.18909	.03222	.02139	-.03091	-.07448	22.01000	6.33000	9.47500
	GRADIENT	.01422	.00239	.00198	-.00384	-.00286	-.00000	-.00000	-.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF (TA6005) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 17/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.802	-11.350	-.06066	-.01040	-.02676	.01242	.01039	22.00500	14.40800	6.48500
.802	-9.350	-.03771	-.00657	-.02182	.01068	.00396	22.00500	14.40800	6.48500
.802	-7.200	-.01269	-.00226	-.01618	.01070	.00009	22.00500	14.40800	6.48500
.802	-5.030	.01453	.00265	-.00957	.01312	.00187	22.00500	14.40800	6.48500
.802	-2.850	.04050	.00703	-.00267	.01731	.00800	22.00500	14.40800	6.48500
.802	-.690	.06712	.01164	.00421	.01877	.01173	22.00500	14.40800	6.48500
.802	1.490	.09567	.01664	.01198	.02291	.01203	22.00500	14.40800	6.48500
.802	3.640	.12220	.02152	.01852	.02383	.00649	22.00500	14.40800	6.48500
.802	5.830	.15092	.02681	.02492	.02448	-.00697	22.00500	14.40800	6.48500
.802	7.980	.17554	.03080	.03042	.02192	-.01857	22.00500	14.40800	6.48500
.802	10.080	.17752	.02995	.03284	.01594	-.03101	22.00500	14.40800	6.48500
	GRADIENT	.01264	.00224	.00330	.00110	-.00019	.00000	.00000	.00000

RUN NO. 18/ 0 RN/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.901	-11.660	-.07498	-.01276	-.02970	.00663	.00355	22.00700	12.99200	7.38900
.901	-9.620	-.05141	-.00876	-.02419	.00277	-.00238	22.00700	12.99200	7.38900
.901	-7.390	-.03004	-.00551	-.01715	.00289	-.00057	22.00700	12.99200	7.38900
.901	-5.170	-.00357	-.00077	-.01079	.00410	.00450	22.00700	12.99200	7.38900
.901	-2.980	.02792	.00484	-.00386	.00540	.00717	22.00700	12.99200	7.38900
.901	-.780	.06003	.01054	.00308	.00681	.01119	22.00700	12.99200	7.38900
.901	1.430	.08838	.01486	.01126	.01104	.01069	22.00700	12.99200	7.38900
.901	3.600	.11516	.01928	.01728	.01131	-.00547	22.00700	12.99200	7.38900
.901	5.810	.13933	.02329	.02273	.01273	-.01665	22.00700	12.99200	7.38900
.901	8.000	.16701	.02825	.02798	.01164	-.02990	22.00700	12.99200	7.38900
.901	10.120	.17691	.02941	.03098	.00776	-.03991	22.00700	12.99200	7.38900
	GRADIENT	.01322	.00217	.00326	.00100	-.00174	.00000	.00000	-.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF (TA6005) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 19/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.099	-12.300	-.12856	-.02211	-.02457	.04808	.01705	21.99900	10.30700	8.72400
1.099	-10.160	-.09692	-.01627	-.02015	.04045	.01024	21.99900	10.30700	8.72400
1.099	-7.840	-.06249	-.01007	-.01490	.03254	.00399	21.99900	10.30700	8.72400
1.099	-5.520	-.02607	-.00353	-.00908	.02816	.00751	21.99900	10.30700	8.72400
1.099	-3.220	.01335	.00400	-.00421	.02213	.00733	21.99900	10.30700	8.72400
1.099	-.950	.05358	.01120	.00137	.01996	-.00239	21.99900	10.30700	8.72400
1.099	1.320	.08665	.01685	.00555	.02046	-.01786	21.99900	10.30700	8.72400
1.099	3.530	.11999	.02229	.01147	.01786	-.03054	21.99900	10.30700	8.72400
1.099	5.800	.15192	.02750	.01729	.01262	-.04257	21.99900	10.30700	8.72400
1.099	8.030	.18083	.03206	.02320	.00567	-.05322	21.99900	10.30700	8.72400
1.099	10.240	.19797	.03476	.02752	.00004	-.06484	21.99900	10.30700	8.72400
	GRADIENT	.01568	.00269	.00227	-.00055	-.00573	-.00000	-.00000	.00000

RUN NO. 20/ 0 RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.250	-12.330	-.12251	-.02120	-.02040	.05678	.01848	22.00900	8.49300	9.29300
1.250	-10.180	-.09045	-.01543	-.01640	.05186	.01482	22.00900	8.49300	9.29300
1.250	-7.840	-.05608	-.00901	-.01235	.04693	.01100	22.00900	8.49300	9.29300
1.250	-5.530	-.02149	-.00256	-.00847	.04142	.00297	22.00900	8.49300	9.29300
1.250	-3.220	.01537	.00421	-.00440	.03767	-.01086	22.00900	8.49300	9.29300
1.250	-.940	.04661	.00991	-.00065	.03652	-.02395	22.00900	8.49300	9.29300
1.250	1.350	.08037	.01568	.00404	.02995	-.03542	22.00900	8.49300	9.29300
1.250	3.550	.11278	.02100	.01017	.02728	-.04553	22.00900	8.49300	9.29300
1.250	5.800	.14214	.02597	.01522	.01524	-.05539	22.00900	8.49300	9.29300
1.250	8.030	.17198	.03083	.02103	.00319	-.06147	22.00900	8.49300	9.29300
1.250	10.200	.18931	.03357	.02443	-.00594	-.06907	22.00900	8.49300	9.29300
	GRADIENT	.01442	.00248	.00214	-.00167	-.00511	.00000	.00000	.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF (TA6005) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 38/ 0 RN/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.460	-12.430	-.09076	-.01497	-.01549	.05997	.02509	21.99800	6.34100	9.47000
1.460	-10.320	-.07021	-.01153	-.01411	.05472	.01134	21.99800	6.34100	9.47000
1.460	-7.900	-.04763	-.00778	-.01219	.04531	-.00397	21.99800	6.34100	9.47000
1.460	-5.630	-.02129	-.00336	-.01001	.03377	-.01983	21.99800	6.34100	9.47000
1.460	-3.320	.00894	.00190	-.00756	.02121	-.03404	21.99800	6.34100	9.47000
1.460	-1.000	.04140	.00740	-.00433	.01199	-.04896	21.99800	6.34100	9.47000
1.460	1.260	.06894	.01235	-.00124	-.00040	-.06001	21.99800	6.34100	9.47000
1.460	3.540	.10231	.01807	.00316	-.00750	-.06715	21.99800	6.34100	9.47000
1.460	5.780	.12953	.02293	.00724	-.01701	-.07022	21.99800	6.34100	9.47000
1.460	8.040	.15206	.02709	.01062	-.02587	-.07241	21.99800	6.34100	9.47000
1.460	10.230	.16689	.02955	.01398	-.02735	-.07277	21.99800	6.34100	9.47000
	GRADIENT	.01347	.00234	.00154	-.00431	-.00484	.00000	.00000	.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF (TA6006) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 24/ 0 RN/L = 6.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.800	-11.280	-.06438	-.01098	-.02627	.01204	.01091	22.00500	14.42500	6.47400
.800	-9.370	-.04158	-.00718	-.02158	.01224	.00449	22.00500	14.42500	6.47400
.800	-7.190	-.01594	-.00273	-.01566	.01083	.00125	22.00500	14.42500	6.47400
.800	-5.030	.01233	.00220	-.00866	.01515	.00178	22.00500	14.42500	6.47400
.800	-2.870	.03824	.00675	-.00185	.01741	.00861	22.00500	14.42500	6.47400
.800	-.690	.06531	.01150	.00512	.02089	.01162	22.00500	14.42500	6.47400
.800	1.470	.09377	.01645	.01285	.02439	.01202	22.00500	14.42500	6.47400
.800	3.650	.12273	.02173	.01996	.02593	.00564	22.00500	14.42500	6.47400
.800	5.860	.15171	.02691	.02647	.02622	-.00726	22.00500	14.42500	6.47400
.800	8.030	.17626	.03089	.03197	.02289	-.01910	22.00500	14.42500	6.47400
.800	10.100	.17770	.03004	.03402	.01674	-.03042	22.00500	14.42500	6.47400
	GRADIENT	.01298	.00230	.00337	.00134	-.00039	.00000	.00000	-.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF (TA6006) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 23/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.900	-11.570	-.07926	-.01316	-.02961	.00447	.00208	22.00600	13.01100	7.37700
.900	-9.600	-.05546	-.00910	-.02432	.00135	-.00179	22.00600	13.01100	7.37700
.900	-7.370	-.03369	-.00592	-.01730	.00321	-.00046	22.00600	13.01100	7.37700
.900	-5.170	-.00637	-.00116	-.01027	.00462	.00328	22.00600	13.01100	7.37700
.900	-2.980	.02569	.00458	-.00330	.00691	.00665	22.00600	13.01100	7.37700
.900	-.780	.05880	.01049	.00367	.00774	.01069	22.00600	13.01100	7.37700
.900	1.410	.08675	.01473	.01191	.01348	.00870	22.00600	13.01100	7.37700
.900	3.600	.11376	.01907	.01810	.01321	-.00550	22.00600	13.01100	7.37700
.900	5.840	.13780	.02302	.02361	.01442	-.01640	22.00600	13.01100	7.37700
.900	8.040	.16716	.02820	.02880	.01132	-.03011	22.00600	13.01100	7.37700
.900	10.120	.17778	.02952	.03177	.00646	-.03992	22.00600	13.01100	7.37700
	GRADIENT	.01332	.00218	.00330	.00112	-.00175	.00000	-.00000	.00000

RUN NO. 22/ 0 RN/L = 6.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.098	-12.170	-.13148	-.02266	-.02325	.03756	.01044	22.00500	10.33200	8.71800
1.098	-10.110	-.10129	-.01709	-.01876	.03499	.00523	22.00500	10.33200	8.71800
1.098	-7.790	-.06660	-.01080	-.01344	.02866	.00145	22.00500	10.33200	8.71800
1.098	-5.490	-.02733	-.00379	-.00727	.02513	.00765	22.00500	10.33200	8.71800
1.098	-3.080	.01320	.00381	-.00216	.02184	.00671	22.00500	10.33200	8.71800
1.098	-.900	.05673	.01166	.00344	.01975	-.00204	22.00500	10.33200	8.71800
1.098	1.330	.09525	.01799	.00965	.01861	-.01857	22.00500	10.33200	8.71800
1.098	3.590	.12902	.02352	.01515	.01676	-.02997	22.00500	10.33200	8.71800
1.098	5.860	.16006	.02855	.02035	.01222	-.04231	22.00500	10.33200	8.71800
1.098	8.100	.18472	.03255	.02491	.00331	-.05195	22.00500	10.33200	8.71800
1.098	10.270	.19960	.03458	.02961	-.00139	-.06154	22.00500	10.33200	8.71800
	GRADIENT	.01735	.00294	.00261	-.00074	-.00569	-.00000	.00000	.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF (TA6006) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 21/ 0 RN/L = 6.81 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.250	-12.280	-.12554	-.02178	-.01727	.05517	.01657	22.05900	8.51300	9.31400
1.250	-10.170	-.09510	-.01625	-.01362	.04968	.01267	22.05900	8.51300	9.31400
1.250	-7.830	-.05850	-.00951	-.00995	.04557	.00887	22.05900	8.51300	9.31400
1.250	-5.530	-.02232	-.00281	-.00614	.03934	.00170	22.05900	8.51300	9.31400
1.250	-3.230	.01537	.00415	-.00226	.03657	-.01208	22.05900	8.51300	9.31400
1.250	-.930	.05230	.01063	.00251	.03612	-.02466	22.05900	8.51300	9.31400
1.250	1.360	.08922	.01680	.00784	.03358	-.03509	22.05900	8.51300	9.31400
1.250	3.580	.12039	.02185	.01342	.02944	-.04609	22.05900	8.51300	9.31400
1.250	5.840	.15022	.02684	.01829	.01740	-.05432	22.05900	8.51300	9.31400
1.250	8.080	.17451	.03108	.02225	.00297	-.06133	22.05900	8.51300	9.31400
1.250	10.260	.18975	.03350	.02523	-.00664	-.06824	22.05900	8.51300	9.31400
	GRADIENT	.01550	.00261	.00230	-.00105	-.00495	.00000	.00000	.00000

RUN NO. 39/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.463	-12.420	-.08676	-.01462	-.01072	.06231	.02139	22.01800	6.31800	9.47700
1.463	-10.250	-.06587	-.01108	-.00937	.05563	.00932	22.01800	6.31800	9.47700
1.463	-7.910	-.04254	-.00720	-.00745	.04667	-.00549	22.01800	6.31800	9.47700
1.463	-5.590	-.01673	-.00283	-.00549	.03387	-.02307	22.01800	6.31800	9.47700
1.463	-3.280	.01301	.00236	-.00341	.02182	-.03853	22.01800	6.31800	9.47700
1.463	-1.000	.04347	.00776	-.00078	.01105	-.05240	22.01800	6.31800	9.47700
1.463	1.320	.07792	.01367	.00275	.00098	-.06297	22.01800	6.31800	9.47700
1.463	3.550	.11005	.01909	.00693	-.00559	-.06835	22.01800	6.31800	9.47700
1.463	5.820	.13833	.02405	.01122	-.01630	-.07156	22.01800	6.31800	9.47700
1.463	8.040	.16001	.02774	.01511	-.02519	-.07429	22.01800	6.31800	9.47700
1.463	10.240	.17157	.02987	.01750	-.02892	-.07580	22.01800	6.31800	9.47700
	GRADIENT	.01427	.00246	.00151	-.00405	-.00439	-.00000	-.00000	-.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF (TA6007) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 25/ 0 RN/L = 6.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.800	-11.310	-.06614	-.01130	-.02486	.01332	.00928	21.99200	14.42400	6.46400
.800	-9.350	-.04356	-.00761	-.01994	.00950	.00317	21.99200	14.42400	6.46400
.800	-7.180	-.01824	-.00344	-.01362	.00968	.00039	21.99200	14.42400	6.46400
.800	-5.020	.01104	.00179	-.00680	.01452	.00161	21.99200	14.42400	6.46400
.800	-2.860	.03816	.00656	-.00072	.01829	.00882	21.99200	14.42400	6.46400
.800	-.680	.06513	.01139	.00624	.02256	.01124	21.99200	14.42400	6.46400
.800	1.480	.09277	.01624	.01390	.02521	.01238	21.99200	14.42400	6.46400
.800	3.660	.12255	.02167	.02092	.02806	.00446	21.99200	14.42400	6.46400
.800	5.860	.15137	.02679	.02716	.02807	-.00680	21.99200	14.42400	6.46400
.800	8.030	.17640	.03066	.03268	.02496	-.01890	21.99200	14.42400	6.46400
.800	10.090	.17893	.03012	.03492	.01910	-.03088	21.99200	14.42400	6.46400
	GRADIENT	.01293	.00231	.00334	.00147	-.00055	.00000	.00000	-.00000

RUN NO. 26/ 0 RN/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.905	-11.590	-.07725	-.01292	-.02750	.00084	-.00325	21.99600	12.92200	7.42300
.905	-9.620	-.05498	-.00908	-.02285	-.00161	-.00377	21.99600	12.92200	7.42300
.905	-7.380	-.03513	-.00642	-.01511	.00111	-.00174	21.99600	12.92200	7.42300
.905	-5.170	-.00541	-.00113	-.00841	.00310	.00197	21.99600	12.92200	7.42300
.905	-2.960	.02667	.00471	-.00157	.00623	.00590	21.99600	12.92200	7.42300
.905	-.770	.05982	.01061	.00536	.00881	.01014	21.99600	12.92200	7.42300
.905	1.420	.08712	.01470	.01361	.01625	.00770	21.99600	12.92200	7.42300
.905	3.610	.11530	.01925	.01976	.01533	-.00445	21.99600	12.92200	7.42300
.905	5.840	.13922	.02303	.02528	.01573	-.01738	21.99600	12.92200	7.42300
.905	8.040	.16534	.02777	.02975	.01147	-.03022	21.99600	12.92200	7.42300
.905	10.160	.17758	.02944	.03252	.00748	-.04130	21.99600	12.92200	7.42300
	GRADIENT	.01339	.00218	.00330	.00159	-.00153	.00000	.00000	.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF (TA6007) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 27/ 0 RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.100	-12.240	-.12151	-.02127	-.01779	.04360	.01527	22.02300	10.30600	8.73900
1.100	-10.120	-.08986	-.01551	-.01374	.03505	.00672	22.02300	10.30600	8.73900
1.100	-7.810	-.05671	-.00941	-.00888	.03102	.00274	22.02300	10.30600	8.73900
1.100	-5.490	-.01759	-.00245	-.00322	.02573	.00868	22.02300	10.30600	8.73900
1.100	-3.200	.02383	.00521	.00196	.02179	.00821	22.02300	10.30600	8.73900
1.100	-.900	.06683	.01288	.00757	.02159	-.00194	22.02300	10.30600	8.73900
1.100	1.320	.10431	.01915	.01334	.01980	-.01984	22.02300	10.30600	8.73900
1.100	3.570	.13713	.02449	.01854	.01872	-.03059	22.02300	10.30600	8.73900
1.100	5.860	.16615	.02927	.02312	.01456	-.04245	22.02300	10.30600	8.73900
1.100	8.100	.18904	.03313	.02682	.00347	-.05442	22.02300	10.30600	8.73900
1.100	10.250	.20181	.03495	.03064	-.00308	-.06432	22.02300	10.30600	8.73900
	GRADIENT	.01675	.00285	.00246	-.00049	-.00596	-.00000	-.00000	.00000

RUN NO. 28/ 0 RN/L = 6.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.251	-12.290	-.11178	-.01980	-.01199	.05877	.01369	22.02000	8.48900	9.30000
1.251	-10.170	-.08013	-.01407	-.00860	.05159	.01239	22.02000	8.48900	9.30000
1.251	-7.830	-.04378	-.00732	-.00523	.04694	.00894	22.02000	8.48900	9.30000
1.251	-5.530	-.00774	-.00060	-.00174	.04131	.00000	22.02000	8.48900	9.30000
1.251	-3.220	.02870	.00614	.00198	.03799	-.01190	22.02000	8.48900	9.30000
1.251	-.920	.06625	.01269	.00641	.03649	-.02366	22.02000	8.48900	9.30000
1.251	1.350	.10248	.01872	.01163	.03376	-.03675	22.02000	8.48900	9.30000
1.251	3.570	.13237	.02352	.01712	.03116	-.04809	22.02000	8.48900	9.30000
1.251	5.850	.16177	.02850	.02172	.01914	-.05525	22.02000	8.48900	9.30000
1.251	8.090	.18172	.03209	.02489	.00300	-.06143	22.02000	8.48900	9.30000
1.251	10.250	.19500	.03415	.02748	-.00742	-.06790	22.02000	8.48900	9.30000
	GRADIENT	.01534	.00257	.00224	-.00102	-.00537	.00000	.00000	.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF (TA6007) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 40/ 0 RN/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.459	-12.390	-.07036	-.01219	-.00776	.06218	.01917	22.01200	6.35600	9.47700
1.459	-10.230	-.04872	-.00857	-.00647	.05688	.00646	22.01200	6.35600	9.47700
1.459	-7.890	-.02501	-.00459	-.00457	.05073	-.00856	22.01200	6.35600	9.47700
1.459	-5.570	.00182	.00018	-.00275	.04072	-.02640	22.01200	6.35600	9.47700
1.459	-3.260	.03307	.00560	.00010	.02711	-.03972	22.01200	6.35600	9.47700
1.459	-.980	.06489	.01110	.00338	.01615	-.05037	22.01200	6.35600	9.47700
1.459	1.340	.09845	.01679	.00725	.00582	-.06041	22.01200	6.35600	9.47700
1.459	3.570	.12776	.02161	.01152	-.00153	-.06516	22.01200	6.35600	9.47700
1.459	5.840	.15389	.02612	.01558	-.01225	-.06964	22.01200	6.35600	9.47700
1.459	8.060	.17373	.02948	.01893	-.02131	-.07380	22.01200	6.35600	9.47700
1.459	10.260	.18293	.03110	.02091	-.02776	-.07532	22.01200	6.35600	9.47700
	GRADIENT	.01393	.00236	.00167	-.00422	-.00379	-.00000	.00000	-.00000

MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF (TA6008) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 32/ 0 RN/L = 6.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.801	-11.340	-.07926	-.01282	-.02860	.00930	.01105	22.01000	14.41200	6.48600
.801	-9.390	-.05818	-.00933	-.02410	.00856	.00476	22.01000	14.41200	6.48600
.801	-7.220	-.03185	-.00484	-.01788	.00854	.00077	22.01000	14.41200	6.48600
.801	-5.070	-.00192	.00041	-.01129	.01321	.00178	22.01000	14.41200	6.48600
.801	-2.890	.02987	.00571	-.00422	.01795	.00818	22.01000	14.41200	6.48600
.801	-.710	.05628	.01031	.00338	.02084	.01235	22.01000	14.41200	6.48600
.801	1.450	.08382	.01520	.01079	.02441	.01283	22.01000	14.41200	6.48600
.801	3.630	.11421	.02071	.01812	.02477	.00516	22.01000	14.41200	6.48600
.801	5.810	.14129	.02555	.02463	.02511	-.00649	22.01000	14.41200	6.48600
.801	7.980	.16530	.02946	.03034	.02269	-.01819	22.01000	14.41200	6.48600
.801	10.080	.16974	.02931	.03314	.01662	-.02966	22.01000	14.41200	6.48600
	GRADIENT	.01292	.00230	.00343	.00111	-.00040	-.00000	.00000	.00000

MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF (TA6008) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 31/ 0 RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.901	-11.650	-.09518	-.01526	-.03240	-.00009	-.00038	22.00900	12.98700	7.39300
.901	-9.670	-.07253	-.01131	-.02723	-.00032	-.00483	22.00900	12.98700	7.39300
.901	-7.410	-.04784	-.00754	-.02044	.00186	-.00423	22.00900	12.98700	7.39300
.901	-5.190	-.01833	-.00279	-.01327	.00718	.00156	22.00900	12.98700	7.39300
.901	-3.000	.01664	.00336	-.00618	.00866	.00519	22.00900	12.98700	7.39300
.901	-.800	.05104	.00939	.00113	.00883	.01035	22.00900	12.98700	7.39300
.901	1.380	.08004	.01384	.00955	.01430	.00761	22.00900	12.98700	7.39300
.901	3.580	.10768	.01832	.01605	.01346	-.00631	22.00900	12.98700	7.39300
.901	5.810	.13251	.02235	.02178	.01344	-.01620	22.00900	12.98700	7.39300
.901	8.020	.16099	.02742	.02712	.01113	-.03039	22.00900	12.98700	7.39300
.901	10.120	.17065	.02879	.03037	.00611	-.04002	22.00900	12.98700	7.39300
	GRADIENT	.01378	.00225	.00343	.00091	-.00170	.00000	-.00000	.00000

RUN NO. 30/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.100	-12.280	-.14330	-.02466	-.02159	.03293	.01704	22.01500	10.30800	8.73400
1.100	-10.170	-.11461	-.01939	-.01820	.02741	.00851	22.01500	10.30800	8.73400
1.100	-7.850	-.07927	-.01287	-.01375	.02149	.00177	22.01500	10.30800	8.73400
1.100	-5.530	-.03939	-.00560	-.00874	.02101	.00558	22.01500	10.30800	8.73400
1.100	-3.230	.00346	.00205	-.00411	.01746	.00539	22.01500	10.30800	8.73400
1.100	-.930	.04824	.01009	.00140	.01788	-.00401	22.01500	10.30800	8.73400
1.100	1.300	.09011	.01702	.00808	.01935	-.01976	22.01500	10.30800	8.73400
1.100	3.540	.12510	.02259	.01389	.01853	-.02989	22.01500	10.30800	8.73400
1.100	5.820	.15605	.02771	.01882	.01442	-.04238	22.01500	10.30800	8.73400
1.100	8.070	.18151	.03200	.02372	.00509	-.05364	22.01500	10.30800	8.73400
1.100	10.240	.19728	.03449	.02801	-.00122	-.06497	22.01500	10.30800	8.73400
	GRADIENT	.01805	.00304	.00269	.00021	-.00539	.00000	.00000	.00000

MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF (TA6008) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 29/ 0 RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.251	-12.310	-.13325	-.02304	-.01481	.04842	.01976	22.01600	8.48300	9.29900
1.251	-10.190	-.10266	-.01745	-.01212	.03989	.01627	22.01600	8.48300	9.29900
1.251	-7.850	-.06805	-.01099	-.00926	.03809	.00861	22.01600	8.48300	9.29900
1.251	-5.550	-.03121	-.00425	-.00628	.03580	-.00176	22.01600	8.48300	9.29900
1.251	-3.260	.00595	.00253	-.00315	.03203	-.01486	22.01600	8.48300	9.29900
1.251	-.960	.04305	.00918	.00070	.03114	-.02714	22.01600	8.48300	9.29900
1.251	1.310	.08012	.01541	.00571	.02910	-.03581	22.01600	8.48300	9.29900
1.251	3.550	.11474	.02105	.01150	.02602	-.04566	22.01600	8.48300	9.29900
1.251	5.810	.14641	.02626	.01663	.01672	-.05544	22.01600	8.48300	9.29900
1.251	8.080	.17097	.03047	.02107	.00319	-.06163	22.01600	8.48300	9.29900
1.251	10.240	.18622	.03293	.02465	-.00726	-.06811	22.01600	8.48300	9.29900
	GRADIENT	.01601	.00272	.00216	-.00088	-.00445	-.00000	-.00000	-.00000

RUN NO. 33/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.459	-12.370	-.09094	-.01493	-.00905	.05614	.02477	22.00700	6.35100	9.47500
1.459	-10.240	-.07043	-.01140	-.00818	.04937	.01412	22.00700	6.35100	9.47500
1.459	-7.910	-.04785	-.00769	-.00645	.04109	.00054	22.00700	6.35100	9.47500
1.459	-5.560	-.02289	-.00339	-.00474	.02765	-.01544	22.00700	6.35100	9.47500
1.459	-3.260	.00581	.00152	-.00254	.01753	-.03095	22.00700	6.35100	9.47500
1.459	-.980	.03518	.00657	.00009	.00800	-.04341	22.00700	6.35100	9.47500
1.459	1.310	.06703	.01193	.00354	-.00182	-.05634	22.00700	6.35100	9.47500
1.459	3.560	.09861	.01731	.00699	-.00873	-.06874	22.00700	6.35100	9.47500
1.459	5.830	.12729	.02231	.01038	-.01952	-.07329	22.00700	6.35100	9.47500
1.459	8.070	.15066	.02644	.01325	-.02731	-.07454	22.00700	6.35100	9.47500
1.459	10.250	.16173	.02852	.01516	-.03134	-.07377	22.00700	6.35100	9.47500
	GRADIENT	.01364	.00232	.00141	-.00390	-.00555	-.00000	-.00000	-.00000

MSFC TWT 692,OTS+WING FAIRING(POS.1) - PLUME OFF (TA6009) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 85/ 0 RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.251	-12.380	-.08135	-.01512	-.01591	.06655	.02253	21.98600	8.46500	9.28700
1.251	-10.200	-.04875	-.00905	-.01361	.06071	.01710	21.98600	8.46500	9.28700
1.251	-7.870	-.01493	-.00306	-.01071	.05426	.00167	21.98600	8.46500	9.28700
1.251	-5.550	.01756	.00280	-.00722	.04691	-.01304	21.98600	8.46500	9.28700
1.251	-3.260	.05065	.00858	-.00302	.03888	-.02373	21.98600	8.46500	9.28700
1.251	-.960	.08426	.01448	.00130	.02997	-.03219	21.98600	8.46500	9.28700
1.251	1.310	.11346	.01952	.00619	.02172	-.04245	21.98600	8.46500	9.28700
1.251	3.540	.13785	.02364	.01144	.01261	-.04844	21.98600	8.46500	9.28700
1.251	5.820	.16306	.02813	.01655	.00363	-.05594	21.98600	8.46500	9.28700
1.251	8.060	.18566	.03226	.02082	-.00791	-.06400	21.98600	8.46500	9.28700
1.251	10.250	.20208	.03538	.02370	-.01875	-.07422	21.98600	8.46500	9.28700
	GRADIENT	.01283	.00222	.00213	-.00384	-.00372	-.00000	.00000	-.00000

MSFC TWT 692,OTS+WING FAIRING(POS.2) - PLUME OFF (TA6010) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 86/ 0 RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.250	-12.370	-.08170	-.01552	-.01199	.06876	.01969	21.99800	8.48300	9.29000
1.250	-10.200	-.05130	-.00990	-.00911	.06228	.01895	21.99800	8.48300	9.29000
1.250	-7.870	-.01641	-.00342	-.00578	.05600	.01064	21.99800	8.48300	9.29000
1.250	-5.550	.01745	.00277	-.00238	.04780	-.00030	21.99800	8.48300	9.29000
1.250	-3.260	.05141	.00893	.00161	.04356	-.01583	21.99800	8.48300	9.29000
1.250	-.940	.08514	.01489	.00546	.03810	-.02631	21.99800	8.48300	9.29000
1.250	1.330	.11577	.02011	.00899	.03066	-.03458	21.99800	8.48300	9.29000
1.250	3.550	.13974	.02420	.01224	.01854	-.03969	21.99800	8.48300	9.29000
1.250	5.800	.16192	.02816	.01445	.00427	-.04737	21.99800	8.48300	9.29000
1.250	8.040	.18003	.03120	.01733	-.01336	-.05225	21.99800	8.48300	9.29000
1.250	10.240	.19317	.03345	.02029	-.02596	-.05857	21.99800	8.48300	9.29000
	GRADIENT	.01303	.00225	.00156	-.00363	-.00352	.00000	-.00000	.00000

MSFC TWT 692, O T S (BASELINE) - PLUME ON (TA6011) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 67/ O RN/L = 6.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.801	-11.260	-.04300	-.00865	-.02178	.01835	.00773	21.98500	14.39500	6.47900
.801	-9.290	-.02102	-.00492	-.01662	.01231	.00164	21.98500	14.39500	6.47900
.801	-7.110	.00321	-.00055	-.01082	.00929	.00000	21.98500	14.39500	6.47900
.801	-4.960	.03147	.00430	-.00399	.01420	.00366	21.98500	14.39500	6.47900
.801	-2.800	.05791	.00887	.00277	.01680	.00871	21.98500	14.39500	6.47900
.801	-.640	.08279	.01332	.00950	.01869	.01136	21.98500	14.39500	6.47900
.801	1.540	.10850	.01798	.01682	.02175	.01001	21.98500	14.39500	6.47900
.801	3.720	.13605	.02321	.02359	.02309	.00205	21.98500	14.39500	6.47900
.801	5.930	.16500	.02853	.03009	.02423	-.00802	21.98500	14.39500	6.47900
.801	8.080	.18811	.03357	.03467	.02037	-.02157	21.98500	14.39500	6.47900
.801	10.120	.18423	.03032	.03629	.01129	-.03065	21.98500	14.39500	6.47900
	GRADIENT	.01197	.00216	.00319	.00105	-.00009	.00000	.00000	.00000

RUN NO. 68/ O RN/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.901	-11.540	-.05269	-.00994	-.02482	.00005	.00100	22.00200	12.97900	7.39300
.901	-9.540	-.03395	-.00700	-.01945	-.00388	-.00503	22.00200	12.97900	7.39300
.901	-7.330	-.01126	-.00326	-.01289	-.00195	-.00415	22.00200	12.97900	7.39300
.901	-5.120	.01397	.00153	-.00713	.00055	-.00189	22.00200	12.97900	7.39300
.901	-2.920	.04382	.00678	-.00040	.00219	.00283	22.00200	12.97900	7.39300
.901	-.720	.07526	.01229	.00722	.00559	.00485	22.00200	12.97900	7.39300
.901	1.480	.10316	.01648	.01556	.01043	.00149	22.00200	12.97900	7.39300
.901	3.680	.12589	.02017	.02159	.00952	-.00787	22.00200	12.97900	7.39300
.901	5.900	.14895	.02404	.02705	.01037	-.01653	22.00200	12.97900	7.39300
.901	8.090	.17283	.02826	.03164	.00771	-.02881	22.00200	12.97900	7.39300
.901	10.160	.18019	.02895	.03391	.00168	-.03658	22.00200	12.97900	7.39300
	GRADIENT	.01246	.00202	.00338	.00122	-.00161	.00000	.00000	.00000

MSFC TWT 692, O T S (BASELINE) - PLUME ON (TA6011) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 50/ O RN/L = 6.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.099	-12.140	-.08851	-.01646	-.02028	.01358	.00739	22.00200	10.30900	8.72600
1.099	-10.010	-.05594	-.01060	-.01559	.00800	.00487	22.00200	10.30900	8.72600
1.099	-7.710	-.02310	-.00483	-.00968	.00189	.00577	22.00200	10.30900	8.72600
1.099	-5.370	.01303	.00177	-.00296	-.00182	.01500	22.00200	10.30900	8.72600
1.099	-3.090	.05303	.00895	.00343	-.00232	.01378	22.00200	10.30900	8.72600
1.099	-.810	.09054	.01552	.00949	.00036	-.00178	22.00200	10.30900	8.72600
1.099	1.470	.12320	.02088	.01514	.00707	-.01161	22.00200	10.30900	8.72600
1.099	3.710	.15124	.02542	.02043	.00712	-.02477	22.00200	10.30900	8.72600
1.099	6.000	.17901	.03001	.02556	-.00095	-.03468	22.00200	10.30900	8.72600
1.099	8.210	.19948	.03325	.02961	-.01047	-.04136	22.00200	10.30900	8.72600
1.099	10.410	.20694	.03423	.03244	-.01730	-.04486	22.00200	10.30900	8.72600
	GRADIENT	.01443	.00242	.00250	.00155	-.00553	-.00000	.00000	-.00000

RUN NO. 49/ O RN/L = 6.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.249	-12.230	-.08746	-.01646	-.01624	.03075	.01621	22.00800	8.49800	9.29100
1.249	-10.080	-.05535	-.01068	-.01203	.02618	.01312	22.00800	8.49800	9.29100
1.249	-7.740	-.01969	-.00427	-.00726	.02260	.01358	22.00800	8.49800	9.29100
1.249	-5.400	.01553	.00236	-.00277	.01902	.00639	22.00800	8.49800	9.29100
1.249	-3.120	.05164	.00885	.00207	.01896	-.00611	22.00800	8.49800	9.29100
1.249	-.820	.08697	.01511	.00722	.01913	-.02014	22.00800	8.49800	9.29100
1.249	1.470	.11765	.02030	.01308	.01776	-.03388	22.00800	8.49800	9.29100
1.249	3.700	.14490	.02471	.01859	.01279	-.04285	22.00800	8.49800	9.29100
1.249	6.000	.17096	.02904	.02332	.00156	-.04807	22.00800	8.49800	9.29100
1.249	8.200	.18997	.03201	.02649	-.01685	-.05055	22.00800	8.49800	9.29100
1.249	10.420	.19655	.03260	.02906	-.02493	-.05370	22.00800	8.49800	9.29100
	GRADIENT	.01365	.00232	.00244	-.00087	-.00545	.00000	-.00000	-.00000

MSFC TWT 692, O T S (BASELINE) - PLUME ON (TA6011) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 48/ O RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.460	-12.230	-.05692	-.01062	-.01370	.04095	.01810	22.00200	6.34600	9.47200
1.460	-10.090	-.03382	-.00669	-.01253	.03797	.00405	22.00200	6.34600	9.47200
1.460	-7.750	-.00946	-.00255	-.01042	.02859	-.01121	22.00200	6.34600	9.47200
1.460	-5.430	.01763	.00217	-.00794	.01768	-.02657	22.00200	6.34600	9.47200
1.460	-3.120	.04998	.00783	-.00430	.00768	-.03701	22.00200	6.34600	9.47200
1.460	-.850	.08255	.01360	.00014	.00000	-.04573	22.00200	6.34600	9.47200
1.460	1.450	.11636	.01942	.00510	-.00553	-.05282	22.00200	6.34600	9.47200
1.460	3.710	.14609	.02433	.01091	-.01021	-.05827	22.00200	6.34600	9.47200
1.460	5.960	.16899	.02823	.01607	-.01828	-.06377	22.00200	6.34600	9.47200
1.460	8.230	.18562	.03106	.01978	-.02817	-.06871	22.00200	6.34600	9.47200
1.460	10.420	.19219	.03221	.02186	-.03715	-.07096	22.00200	6.34600	9.47200
	GRADIENT	.01414	.00243	.00222	-.00260	-.00311	.00000	.00000	.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON (TA6012) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 70/ O RN/L = 6.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.802	-11.280	-.04771	-.00912	-.02301	.01643	.00886	22.02400	14.41000	6.49800
.802	-9.330	-.02560	-.00549	-.01798	.01164	.00567	22.02400	14.41000	6.49800
.802	-7.130	-.00129	-.00111	-.01236	.01060	.00130	22.02400	14.41000	6.49800
.802	-4.960	.02622	.00375	-.00547	.01398	.00468	22.02400	14.41000	6.49800
.802	-2.810	.05391	.00842	.00133	.01622	.00976	22.02400	14.41000	6.49800
.802	-.650	.07860	.01287	.00816	.01799	.01230	22.02400	14.41000	6.49800
.802	1.510	.10448	.01750	.01561	.02183	.01113	22.02400	14.41000	6.49800
.802	3.700	.13127	.02258	.02232	.02299	.00400	22.02400	14.41000	6.49800
.802	5.900	.15978	.02792	.02880	.02353	-.00711	22.02400	14.41000	6.49800
.802	8.040	.18402	.03281	.03375	.01962	-.01987	22.02400	14.41000	6.49800
.802	10.120	.18144	.02988	.03558	.01116	-.03032	22.02400	14.41000	6.49800
	GRADIENT	.01205	.00216	.00323	.00109	-.00000	-.00000	-.00000	.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON (TA6012) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 69/ O RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.901	-11.560	-.05896	-.01061	-.02613	-.00042	.00221	21.97500	12.96600	7.38200
.901	-9.560	-.03929	-.00750	-.02101	-.00398	-.00409	21.97500	12.96600	7.38200
.901	-7.320	-.01778	-.00393	-.01471	-.00228	-.00403	21.97500	12.96600	7.38200
.901	-5.090	.01005	.00093	-.00853	.00184	-.00193	21.97500	12.96600	7.38200
.901	-2.920	.04031	.00648	-.00162	.00228	.00259	21.97500	12.96600	7.38200
.901	-.720	.07127	.01191	.00582	.00626	.00467	21.97500	12.96600	7.38200
.901	1.480	.09840	.01604	.01385	.00995	.00122	21.97500	12.96600	7.38200
.901	3.670	.12289	.01989	.02035	.01034	-.00766	21.97500	12.96600	7.38200
.901	5.900	.14554	.02362	.02573	.01138	-.01664	21.97500	12.96600	7.38200
.901	8.090	.16935	.02792	.03039	.00817	-.02879	21.97500	12.96600	7.38200
.901	10.180	.17626	.02857	.03280	.00280	-.03710	21.97500	12.96600	7.38200
	GRADIENT	.01251	.00202	.00337	.00127	-.00156	.00000	.00000	.00000

RUN NO. 51/ O RN/L = 6.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.099	-12.150	-.09668	-.01767	-.02188	.00525	.00679	21.98200	10.30000	8.71700
1.099	-10.020	-.06666	-.01215	-.01747	-.00293	.00373	21.98200	10.30000	8.71700
1.099	-7.740	-.03413	-.00637	-.01191	-.00560	.00301	21.98200	10.30000	8.71700
1.099	-5.410	.00044	-.00003	-.00558	-.00649	.01223	21.98200	10.30000	8.71700
1.099	-3.120	.03865	.00711	.00033	-.00534	.01126	21.98200	10.30000	8.71700
1.099	-.820	.07673	.01381	.00647	-.00122	-.00191	21.98200	10.30000	8.71700
1.099	1.440	.11088	.01933	.01241	.00550	-.00985	21.98200	10.30000	8.71700
1.099	3.680	.14008	.02399	.01772	.00645	-.02257	21.98200	10.30000	8.71700
1.099	5.970	.16821	.02864	.02272	-.00075	-.03496	21.98200	10.30000	8.71700
1.099	8.190	.19015	.03221	.02692	-.01561	-.04265	21.98200	10.30000	8.71700
1.099	10.380	.20091	.03352	.03081	-.02106	-.04672	21.98200	10.30000	8.71700
	GRADIENT	.01494	.00248	.00256	.00186	-.00483	-.00000	.00000	-.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON (TA6012) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 52/ 0 RN/L = 6.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.250	-12.220	-.09574	-.01758	-.01758	.02041	.01745	21.96600	8.47900	9.27500
1.250	-10.080	-.06317	-.01166	-.01318	.01521	.01565	21.96600	8.47900	9.27500
1.250	-7.760	-.02776	-.00527	-.00863	.01275	.01184	21.96600	8.47900	9.27500
1.250	-5.410	.00567	.00122	-.00442	.01206	.00388	21.96600	8.47900	9.27500
1.250	-3.130	.04017	.00761	.00015	.01382	-.00866	21.96600	8.47900	9.27500
1.250	-.830	.07489	.01367	.00528	.01535	-.02101	21.96600	8.47900	9.27500
1.250	1.440	.10774	.01915	.01076	.01473	-.03379	21.96600	8.47900	9.27500
1.250	3.680	.13498	.02357	.01608	.01189	-.04390	21.96600	8.47900	9.27500
1.250	5.960	.16238	.02807	.02075	.00033	-.04966	21.96600	8.47900	9.27500
1.250	8.190	.18053	.03106	.02394	-.01417	-.05386	21.96600	8.47900	9.27500
1.250	10.400	.18992	.03201	.02695	-.02110	-.05751	21.96600	8.47900	9.27500
	GRADIENT	.01398	.00235	.00235	-.00028	-.00522	.00000	.00000	-.00000

RUN NO. 44/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.459	-12.270	-.06675	-.01205	-.01421	.03984	.02007	21.99600	6.35000	9.47000
1.459	-10.020	-.04208	-.00792	-.01266	.03149	.00457	21.99600	6.35000	9.47000
1.459	-7.780	-.01804	-.00383	-.01053	.02198	-.01083	21.99600	6.35000	9.47000
1.459	-5.460	.00764	.00066	-.00808	.01193	-.02621	21.99600	6.35000	9.47000
1.459	-3.160	.03758	.00595	-.00487	.00444	-.03812	21.99600	6.35000	9.47000
1.459	-.870	.07049	.01175	-.00065	-.00022	-.04834	21.99600	6.35000	9.47000
1.459	1.430	.10195	.01728	.00378	-.00559	-.05370	21.99600	6.35000	9.47000
1.459	3.690	.13210	.02237	.00917	-.00984	-.05848	21.99600	6.35000	9.47000
1.459	5.940	.15729	.02655	.01451	-.01810	-.06375	21.99600	6.35000	9.47000
1.459	8.200	.17542	.02963	.01813	-.03113	-.06799	21.99600	6.35000	9.47000
1.459	10.400	.18353	.03105	.02039	-.03706	-.07085	21.99600	6.35000	9.47000
	GRADIENT	.01379	.00240	.00204	-.00211	-.00291	.00000	-.00000	-.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON (TA6013) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 71/ 0 RN/L = 6.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.803	-11.240	-.04976	-.00938	-.02324	.01573	.00879	22.02700	14.40600	6.50300
.803	-9.310	-.02655	-.00561	-.01792	.01073	.00245	22.02700	14.40600	6.50300
.803	-7.130	-.00192	-.00127	-.01208	.01016	.00121	22.02700	14.40600	6.50300
.803	-4.970	.02586	.00367	-.00540	.01430	.00387	22.02700	14.40600	6.50300
.803	-2.810	.05306	.00842	.00130	.01628	.00971	22.02700	14.40600	6.50300
.803	-.650	.07728	.01268	.00826	.01879	.01136	22.02700	14.40600	6.50300
.803	1.510	.10425	.01739	.01599	.02170	.01121	22.02700	14.40600	6.50300
.803	3.700	.13222	.02272	.02277	.02422	.00275	22.02700	14.40600	6.50300
.803	5.910	.15929	.02788	.02904	.02328	-.00714	22.02700	14.40600	6.50300
.803	8.070	.18712	.03292	.03461	.02065	-.02150	22.02700	14.40600	6.50300
.803	10.140	.18145	.03005	.03573	.01088	-.03026	22.02700	14.40600	6.50300
	GRADIENT	.01218	.00217	.00328	.00117	-.00004	-.00000	-.00000	-.00000

RUN NO. 72/ 0 RN/L = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.903	-11.570	-.05949	-.01079	-.02602	-.00134	.00167	21.98100	12.94700	7.39800
.903	-9.570	-.03996	-.00761	-.02099	-.00532	-.00344	21.98100	12.94700	7.39800
.903	-7.310	-.01704	-.00395	-.01434	-.00302	-.00445	21.98100	12.94700	7.39800
.903	-5.100	.00992	.00108	-.00828	-.00047	-.00156	21.98100	12.94700	7.39800
.903	-2.900	.04113	.00658	-.00132	.00294	.00287	21.98100	12.94700	7.39800
.903	-.730	.07132	.01194	.00616	.00633	.00507	21.98100	12.94700	7.39800
.903	1.480	.09855	.01606	.01438	.01068	.00153	21.98100	12.94700	7.39800
.903	3.650	.12285	.01989	.02074	.01008	-.00752	21.98100	12.94700	7.39800
.903	5.890	.14506	.02358	.02617	.01080	-.01655	21.98100	12.94700	7.39800
.903	8.070	.16926	.02791	.03080	.00770	-.02899	21.98100	12.94700	7.39800
.903	10.180	.17580	.02857	.03310	.00293	-.03677	21.98100	12.94700	7.39800
	GRADIENT	.01246	.00201	.00340	.00118	-.00159	-.00000	.00000	-.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON (TA6013) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 54/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.100	-12.170	-.09664	-.01746	-.02169	.00304	.00695	22.00900	10.29900	8.73300
1.100	-10.000	-.06502	-.01188	-.01668	-.00236	.00429	22.00900	10.29900	8.73300
1.100	-7.700	-.03229	-.00612	-.01097	-.00523	.00473	22.00900	10.29900	8.73300
1.100	-5.380	.00523	.00053	-.00433	-.00739	.01354	22.00900	10.29900	8.73300
1.100	-3.070	.04488	.00797	.00169	-.00702	.01257	22.00900	10.29900	8.73300
1.100	-.800	.08372	.01463	.00801	-.00328	-.00110	22.00900	10.29900	8.73300
1.100	1.460	.11681	.02005	.01391	.00281	-.01022	22.00900	10.29900	8.73300
1.100	3.700	.14551	.02468	.01907	.00138	-.02331	22.00900	10.29900	8.73300
1.100	5.950	.17421	.02934	.02392	-.00502	-.03540	22.00900	10.29900	8.73300
1.100	8.210	.19626	.03303	.02814	-.01627	-.04278	22.00900	10.29900	8.73300
1.100	10.390	.20413	.03379	.03196	-.01813	-.04525	22.00900	10.29900	8.73300
	GRADIENT	.01484	.00246	.00257	.00139	-.00517	-.00000	.00000	.00000

RUN NO. 53/ 0 RN/L = 6.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.251	-12.220	-.09434	-.01739	-.01638	.01987	.01430	22.00800	8.48300	9.29500
1.251	-10.030	-.05975	-.01116	-.01209	.01453	.01259	22.00800	8.48300	9.29500
1.251	-7.740	-.02419	-.00473	-.00762	.01258	.01203	22.00800	8.48300	9.29500
1.251	-5.390	.01123	.00197	-.00317	.01223	.00413	22.00800	8.48300	9.29500
1.251	-3.100	.04726	.00848	.00163	.01331	-.00978	22.00800	8.48300	9.29500
1.251	-.800	.08305	.01470	.00679	.01620	-.02212	22.00800	8.48300	9.29500
1.251	1.490	.11579	.02020	.01252	.01577	-.03586	22.00800	8.48300	9.29500
1.251	3.710	.14277	.02451	.01783	.01113	-.04528	22.00800	8.48300	9.29500
1.251	5.930	.16861	.02884	.02208	-.00048	-.05045	22.00800	8.48300	9.29500
1.251	8.190	.18772	.03190	.02561	-.01613	-.05397	22.00800	8.48300	9.29500
1.251	10.390	.19566	.03270	.02866	-.02067	-.05757	22.00800	8.48300	9.29500
	GRADIENT	.01406	.00236	.00239	-.00030	-.00529	.00000	.00000	.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON (TA6013) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 45/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.459	-12.290	-.06372	-.01175	-.01193	.03903	.01571	22.00400	6.35000	9.47300
1.459	-10.120	-.03996	-.00770	-.01071	.03153	.00110	22.00400	6.35000	9.47300
1.459	-7.790	-.01501	-.00343	-.00889	.02352	-.01389	22.00400	6.35000	9.47300
1.459	-5.480	.01114	.00126	-.00665	.01297	-.02853	22.00400	6.35000	9.47300
1.459	-3.150	.04102	.00661	-.00342	.00440	-.03989	22.00400	6.35000	9.47300
1.459	-.870	.07356	.01232	.00055	-.00142	-.04951	22.00400	6.35000	9.47300
1.459	1.410	.10543	.01790	.00505	-.00698	-.05443	22.00400	6.35000	9.47300
1.459	3.670	.13516	.02291	.00988	-.01217	-.05871	22.00400	6.35000	9.47300
1.459	5.930	.15998	.02707	.01487	-.02141	-.06386	22.00400	6.35000	9.47300
1.459	8.200	.17853	.03010	.01883	-.03279	-.06831	22.00400	6.35000	9.47300
1.459	10.380	.18520	.03130	.02086	-.03937	-.07085	22.00400	6.35000	9.47300
	GRADIENT	.01382	.00240	.00195	-.00243	-.00270	.00000	-.00000	-.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON (TA6014) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 74/ 0 RN/L = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.801	-11.270	-.04901	-.00929	-.02223	.01602	.00854	22.00800	14.42100	6.47900
.801	-9.320	-.02681	-.00564	-.01738	.01039	.00294	22.00800	14.42100	6.47900
.801	-7.150	-.00192	-.00128	-.01123	.01014	.00112	22.00800	14.42100	6.47900
.801	-4.990	.02578	.00367	-.00465	.01412	.00442	22.00800	14.42100	6.47900
.801	-2.830	.05248	.00829	.00192	.01708	.00960	22.00800	14.42100	6.47900
.801	-.670	.07748	.01273	.00880	.01911	.01138	22.00800	14.42100	6.47900
.801	1.510	.10388	.01735	.01659	.02167	.01125	22.00800	14.42100	6.47900
.801	3.700	.13183	.02259	.02336	.02426	.00275	22.00800	14.42100	6.47900
.801	5.890	.15840	.02773	.02945	.02290	-.00737	22.00800	14.42100	6.47900
.801	8.030	.18555	.03281	.03490	.01968	-.02123	22.00800	14.42100	6.47900
.801	10.120	.18039	.02995	.03599	.01086	-.03111	22.00800	14.42100	6.47900
	GRADIENT	.01213	.00216	.00325	.00115	-.00008	-.00000	-.00000	-.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON (TA6014) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 73/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.904	-11.500	-.05989	-.01099	-.02504	-.00066	-.00023	22.02200	12.96100	7.41700
.904	-9.540	-.03890	-.00755	-.01975	-.00430	-.00274	22.02200	12.96100	7.41700
.904	-7.310	-.01761	-.00394	-.01394	-.00263	-.00442	22.02200	12.96100	7.41700
.904	-5.100	.01070	.00115	-.00761	.00070	-.00225	22.02200	12.96100	7.41700
.904	-2.920	.04155	.00654	-.00044	.00315	.00243	22.02200	12.96100	7.41700
.904	-.750	.07166	.01190	.00689	.00539	.00460	22.02200	12.96100	7.41700
.904	1.460	.09878	.01605	.01511	.01133	.00141	22.02200	12.96100	7.41700
.904	3.660	.12215	.01969	.02146	.01047	-.00777	22.02200	12.96100	7.41700
.904	5.900	.14475	.02346	.02679	.01201	-.01689	22.02200	12.96100	7.41700
.904	8.080	.16908	.02783	.03137	.00797	-.02878	22.02200	12.96100	7.41700
.904	10.180	.17464	.02830	.03337	.00311	-.03703	22.02200	12.96100	7.41700
	GRADIENT	.01225	.00199	.00337	.00127	-.00154	.00000	.00000	.00000

RUN NO. 55/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.100	-12.210	-.09538	-.01752	-.01985	.00793	.00662	22.00600	10.29600	8.73300
1.100	-10.020	-.06362	-.01175	-.01535	.00106	.00319	22.00600	10.29600	8.73300
1.100	-7.690	-.03046	-.00587	-.00996	-.00229	.00355	22.00600	10.29600	8.73300
1.100	-5.380	.00560	.00063	-.00344	-.00330	.01352	22.00600	10.29600	8.73300
1.100	-3.090	.04690	.00824	.00267	-.00471	.01305	22.00600	10.29600	8.73300
1.100	-.810	.08632	.01488	.00902	-.00028	-.00139	22.00600	10.29600	8.73300
1.100	1.440	.11924	.02033	.01486	.00549	-.01054	22.00600	10.29600	8.73300
1.100	3.700	.14815	.02497	.01999	.00557	-.02418	22.00600	10.29600	8.73300
1.100	5.960	.17604	.02958	.02484	-.00146	-.03577	22.00600	10.29600	8.73300
1.100	8.210	.19707	.03310	.02877	-.01353	-.04315	22.00600	10.29600	8.73300
1.100	10.370	.20536	.03400	.03235	-.01700	-.04590	22.00600	10.29600	8.73300
	GRADIENT	.01489	.00246	.00256	.00162	-.00534	.00000	-.00000	-.00000

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON (TA6014) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 56/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.251	-12.250	-.09220	-.01717	-.01483	.02392	.01643	22.00300	8.48100	9.29300
1.251	-10.080	-.05992	-.01131	-.01071	.01985	.01204	22.00300	8.48100	9.29300
1.251	-7.760	-.02449	-.00486	-.00654	.01758	.01100	22.00300	8.48100	9.29300
1.251	-5.440	.01119	.00187	-.00244	.01625	.00392	22.00300	8.48100	9.29300
1.251	-3.130	.04727	.00844	.00233	.01739	-.00890	22.00300	8.48100	9.29300
1.251	-.830	.08401	.01471	.00768	.01988	-.02217	22.00300	8.48100	9.29300
1.251	1.460	.11739	.02034	.01333	.01787	-.03616	22.00300	8.48100	9.29300
1.251	3.680	.14337	.02458	.01847	.01369	-.04610	22.00300	8.48100	9.29300
1.251	5.900	.16903	.02887	.02324	.00171	-.05084	22.00300	8.48100	9.29300
1.251	8.150	.18904	.03198	.02682	-.01654	-.05394	22.00300	8.48100	9.29300
1.251	10.360	.19528	.03250	.02940	-.02311	-.05769	22.00300	8.48100	9.29300
	GRADIENT	.01417	.00238	.00238	-.00057	-.00553	.00000	.00000	-.00000

RUN NO. 46/ 0 RN/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.460	-12.230	-.05656	-.01057	-.01148	.04052	.01405	22.00300	6.34400	9.47300
1.460	-10.110	-.03367	-.00671	-.01031	.03433	.00048	22.00300	6.34400	9.47300
1.460	-7.760	-.00890	-.00242	-.00853	.02623	-.01384	22.00300	6.34400	9.47300
1.460	-5.430	.01798	.00232	-.00600	.01658	-.02792	22.00300	6.34400	9.47300
1.460	-3.100	.04945	.00792	-.00265	.00621	-.03943	22.00300	6.34400	9.47300
1.460	-.840	.08169	.01356	.00151	-.00084	-.04822	22.00300	6.34400	9.47300
1.460	1.470	.11428	.01908	.00659	-.00574	-.05288	22.00300	6.34400	9.47300
1.460	3.710	.14305	.02390	.01154	-.01041	-.05887	22.00300	6.34400	9.47300
1.460	5.960	.16577	.02780	.01614	-.01960	-.06399	22.00300	6.34400	9.47300
1.460	8.230	.18301	.03072	.01986	-.03133	-.06878	22.00300	6.34400	9.47300
1.460	10.410	.18835	.03166	.02160	-.04074	-.07053	22.00300	6.34400	9.47300
	GRADIENT	.01378	.00235	.00210	-.00241	-.00277	.00000	.00000	.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON (TA6015) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 75/ 0 RN/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.802	-11.300	-.05430	-.00950	-.02550	.01109	.01021	21.95700	14.36900	6.47700
.802	-9.340	-.03288	-.00595	-.02082	.01043	.00289	21.95700	14.36900	6.47700
.802	-7.180	-.00927	-.00192	-.01491	.00915	.00110	21.95700	14.36900	6.47700
.802	-4.970	.01798	.00298	-.00884	.01281	.00369	21.95700	14.36900	6.47700
.802	-2.800	.04586	.00773	-.00208	.01572	.00881	21.95700	14.36900	6.47700
.802	-.660	.07170	.01225	.00466	.01707	.01153	21.95700	14.36900	6.47700
.802	1.530	.09993	.01718	.01230	.02009	.01161	21.95700	14.36900	6.47700
.802	3.700	.12720	.02228	.01940	.02208	.00386	21.95700	14.36900	6.47700
.802	5.880	.15578	.02749	.02630	.02123	-.00654	21.95700	14.36900	6.47700
.802	8.040	.18207	.03239	.03197	.01890	-.01935	21.95700	14.36900	6.47700
.802	10.120	.17870	.02972	.03351	.01208	-.03076	21.95700	14.36900	6.47700
	GRADIENT	.01258	.00222	.00327	.00106	.00014	-.00000	-.00000	-.00000

RUN NO. 76/ 0 RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.902	-11.600	-.06426	-.01111	-.02756	-.00232	.00141	22.03200	12.99000	7.40700
.902	-9.610	-.04509	-.00797	-.02267	-.00465	-.00192	22.03200	12.99000	7.40700
.902	-7.380	-.02476	-.00471	-.01671	-.00329	-.00432	22.03200	12.99000	7.40700
.902	-5.150	.00261	.00017	-.01046	-.00171	-.00284	22.03200	12.99000	7.40700
.902	-2.920	.03565	.00594	-.00376	-.00140	.00187	22.03200	12.99000	7.40700
.902	-.730	.06588	.01133	.00248	.00339	.00410	22.03200	12.99000	7.40700
.902	1.480	.09323	.01557	.01049	.00692	.00096	22.03200	12.99000	7.40700
.902	3.670	.11902	.01956	.01758	.00621	-.00841	22.03200	12.99000	7.40700
.902	5.870	.14238	.02331	.02360	.00965	-.01669	22.03200	12.99000	7.40700
.902	8.070	.16935	.02805	.02897	.00807	-.02815	22.03200	12.99000	7.40700
.902	10.180	.17694	.02871	.03150	.00406	-.03710	22.03200	12.99000	7.40700
	GRADIENT	.01262	.00205	.00328	.00120	-.00155	.00000	.00000	.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON (TA6015) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 58/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.099	-12.180	-.11162	-.01950	-.02639	.00352	.00888	21.98000	10.30200	8.71500
1.099	-10.060	-.08179	-.01448	-.02157	-.00087	.00552	21.98000	10.30200	8.71500
1.099	-7.730	-.05008	-.00844	-.01612	-.00323	.00184	21.98000	10.30200	8.71500
1.099	-5.410	-.01376	-.00210	-.01041	-.00292	.00818	21.98000	10.30200	8.71500
1.099	-3.100	.01528	.00369	-.00719	.00063	.00499	21.98000	10.30200	8.71500
1.099	-.820	.05635	.01095	-.00129	-.00083	-.00300	21.98000	10.30200	8.71500
1.099	1.420	.09460	.01721	.00517	.00032	-.01368	21.98000	10.30200	8.71500
1.099	3.680	.12738	.02248	.01146	-.00518	-.02305	21.98000	10.30200	8.71500
1.099	5.960	.15864	.02780	.01672	-.01015	-.03875	21.98000	10.30200	8.71500
1.099	8.200	.18421	.03199	.02234	-.01699	-.04674	21.98000	10.30200	8.71500
1.099	10.420	.19741	.03350	.02801	-.01924	-.04976	21.98000	10.30200	8.71500
	GRADIENT	.01659	.00277	.00276	-.00072	-.00420	.00000	.00000	.00000

RUN NO. 57/ 0 RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.251	-12.300	-.11278	-.02001	-.02184	.02163	.01359	22.00600	8.47800	9.29500
1.251	-10.100	-.08073	-.01428	-.01761	.01536	.01400	22.00600	8.47800	9.29500
1.251	-7.730	-.04627	-.00799	-.01339	.01413	.01118	22.00600	8.47800	9.29500
1.251	-5.430	-.01742	-.00259	-.01060	.01428	.00209	22.00600	8.47800	9.29500
1.251	-3.160	.01680	.00383	-.00674	.01541	-.01177	22.00600	8.47800	9.29500
1.251	-.880	.05249	.01015	-.00201	.01743	-.02512	22.00600	8.47800	9.29500
1.251	1.410	.08587	.01592	.00409	.01235	-.03264	22.00600	8.47800	9.29500
1.251	3.630	.11742	.02106	.01019	.00434	-.04349	22.00600	8.47800	9.29500
1.251	5.940	.14929	.02628	.01583	-.00453	-.05172	22.00600	8.47800	9.29500
1.251	8.190	.17057	.02994	.01923	-.01902	-.05687	22.00600	8.47800	9.29500
1.251	10.280	.18800	.03226	.02478	-.01940	-.06246	22.00600	8.47800	9.29500
	GRADIENT	.01480	.00254	.00251	-.00168	-.00453	.00000	.00000	.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON (TA6015) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 43/ 0 RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.459	-12.290	-.08272	-.01431	-.01632	.03826	.02224	22.00500	6.35500	9.47400
1.459	-10.140	-.05906	-.01041	-.01471	.03011	.00822	22.00500	6.35500	9.47400
1.459	-7.800	-.03490	-.00629	-.01270	.02059	-.00698	22.00500	6.35500	9.47400
1.459	-5.470	-.00996	-.00217	-.00982	.00745	-.02293	22.00500	6.35500	9.47400
1.459	-3.170	.02126	.00336	-.00654	.00207	-.03814	22.00500	6.35500	9.47400
1.459	-.860	.04879	.00831	-.00379	-.00382	-.05012	22.00500	6.35500	9.47400
1.459	1.410	.07863	.01361	-.00053	-.00859	-.06004	22.00500	6.35500	9.47400
1.459	3.670	.10960	.01890	.00381	-.01133	-.06597	22.00500	6.35500	9.47400
1.459	5.930	.13737	.02358	.00809	-.02174	-.06787	22.00500	6.35500	9.47400
1.459	8.210	.15910	.02729	.01175	-.03503	-.06947	22.00500	6.35500	9.47400
1.459	10.380	.16924	.02921	.01440	-.03571	-.07087	22.00500	6.35500	9.47400
	GRADIENT	.01294	.00228	.00150	-.00197	-.00410	.00000	.00000	.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON (TA6016) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 78/ 0 RN/L = 6.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.804	-11.290	-.05830	-.01012	-.02569	.00864	.01028	22.06200	14.41200	6.52500
.804	-9.340	-.03647	-.00646	-.02089	.00756	.00425	22.06200	14.41200	6.52500
.804	-7.160	-.01293	-.00241	-.01495	.00867	.00152	22.06200	14.41200	6.52500
.804	-5.000	.01755	.00292	-.00775	.01188	.00428	22.06200	14.41200	6.52500
.804	-2.820	.04474	.00757	-.00118	.01557	.01000	22.06200	14.41200	6.52500
.804	-.680	.06950	.01197	.00573	.01742	.01185	22.06200	14.41200	6.52500
.804	1.520	.09920	.01720	.01364	.02028	.01208	22.06200	14.41200	6.52500
.804	3.690	.12634	.02215	.02039	.02259	.00425	22.06200	14.41200	6.52500
.804	5.890	.15616	.02766	.02726	.02148	-.00669	22.06200	14.41200	6.52500
.804	8.040	.18144	.03231	.03263	.01863	-.02031	22.06200	14.41200	6.52500
.804	10.110	.17726	.02973	.03411	.01124	-.02972	22.06200	14.41200	6.52500
	GRADIENT	.01253	.00221	.00327	.00120	.00009	-.00000	-.00000	-.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON (TA6016) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 77/ 0 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.901	-11.550	-.07271	-.01215	-.02888	-.00395	.00046	22.02400	12.99600	7.39800
.901	-9.570	-.04937	-.00844	-.02330	-.00438	-.00225	22.02400	12.99600	7.39800
.901	-7.340	-.02612	-.00465	-.01705	-.00273	-.00501	22.02400	12.99600	7.39800
.901	-5.100	.00273	.00021	-.01040	.00064	-.00236	22.02400	12.99600	7.39800
.901	-2.910	.03518	.00599	-.00343	.00131	.00165	22.02400	12.99600	7.39800
.901	-.760	.06581	.01133	.00389	.00269	.00459	22.02400	12.99600	7.39800
.901	1.470	.09416	.01566	.01216	.00863	.00057	22.02400	12.99600	7.39800
.901	3.670	.11925	.01967	.01861	.00804	-.00880	22.02400	12.99600	7.39800
.901	5.890	.14109	.02324	.02407	.01083	-.01739	22.02400	12.99600	7.39800
.901	8.070	.16574	.02753	.02904	.00798	-.02936	22.02400	12.99600	7.39800
.901	10.200	.17392	.02841	.03166	.00285	-.03777	22.02400	12.99600	7.39800
	GRADIENT	.01277	.00206	.00339	.00119	-.00162	.00000	.00000	-.00000

RUN NO. 59/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.099	-12.160	-.11395	-.02022	-.02460	.00115	.01174	22.01700	10.31700	8.73100
1.099	-10.040	-.08258	-.01460	-.02009	-.00480	.00506	22.01700	10.31700	8.73100
1.099	-7.710	-.05005	-.00873	-.01450	-.00653	.00122	22.01700	10.31700	8.73100
1.099	-5.400	-.01342	-.00215	-.00852	-.00592	.00866	22.01700	10.31700	8.73100
1.099	-3.100	.02666	.00538	-.00288	-.00418	.00704	22.01700	10.31700	8.73100
1.099	-.810	.06684	.01255	.00314	.00039	-.00208	22.01700	10.31700	8.73100
1.099	1.440	.10703	.01855	.01006	.00429	-.00865	22.01700	10.31700	8.73100
1.099	3.690	.13850	.02371	.01544	.00229	-.02322	22.01700	10.31700	8.73100
1.099	5.970	.16988	.02900	.02059	-.00534	-.03710	22.01700	10.31700	8.73100
1.099	8.210	.19433	.03303	.02525	-.01683	-.04481	22.01700	10.31700	8.73100
1.099	10.410	.20318	.03407	.02933	-.01972	-.04852	22.01700	10.31700	8.73100
	GRADIENT	.01661	.00270	.00274	.00103	-.00430	.00000	-.00000	-.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON (TA6016) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 60/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.250	-12.220	-.11024	-.01987	-.01895	.01776	.01466	22.00300	8.48600	9.29200
1.250	-10.080	-.07826	-.01426	-.01486	.01086	.01327	22.00300	8.48600	9.29200
1.250	-7.730	-.04418	-.00784	-.01092	.00904	.01008	22.00300	8.48600	9.29200
1.250	-5.440	-.00989	-.00139	-.00696	.01120	.00067	22.00300	8.48600	9.29200
1.250	-3.120	.02616	.00541	-.00283	.01450	-.01266	22.00300	8.48600	9.29200
1.250	-.820	.06233	.01168	.00218	.01583	-.02513	22.00300	8.48600	9.29200
1.250	1.430	.09576	.01721	.00788	.01739	-.03410	22.00300	8.48600	9.29200
1.250	3.690	.12698	.02222	.01365	.01065	-.04464	22.00300	8.48600	9.29200
1.250	5.960	.15733	.02713	.01861	-.00230	-.05146	22.00300	8.48600	9.29200
1.250	8.200	.17974	.03076	.02260	-.01636	-.05669	22.00300	8.48600	9.29200
1.250	10.420	.19057	.03234	.02611	-.02193	-.06199	22.00300	8.48600	9.29200
	GRADIENT	.01481	.00247	.00243	-.00044	-.00463	.00000	-.00000	.00000

RUN NO. 42/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.460	-12.260	-.07320	-.01313	-.01148	.03837	.01752	22.02800	6.35500	9.48300
1.460	-10.110	-.04990	-.00929	-.01001	.02947	.00523	22.02800	6.35500	9.48300
1.460	-7.650	-.02307	-.00471	-.00771	.01753	-.01131	22.02800	6.35500	9.48300
1.460	-5.440	.00036	-.00053	-.00587	.00892	-.02802	22.02800	6.35500	9.48300
1.460	-3.140	.02882	.00460	-.00320	.00317	-.04190	22.02800	6.35500	9.48300
1.460	-.850	.05754	.00968	-.00035	-.00251	-.05312	22.02800	6.35500	9.48300
1.460	1.450	.08723	.01491	.00298	-.00704	-.06186	22.02800	6.35500	9.48300
1.460	3.680	.11755	.02004	.00717	-.01190	-.06689	22.02800	6.35500	9.48300
1.460	5.960	.14495	.02461	.01131	-.02091	-.06896	22.02800	6.35500	9.48300
1.460	8.240	.16545	.02820	.01401	-.03317	-.07097	22.02800	6.35500	9.48300
1.460	10.420	.17679	.03025	.01670	-.03684	-.07326	22.02800	6.35500	9.48300
	GRADIENT	.01300	.00226	.00151	-.00219	-.00368	.00000	.00000	.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON (TA6017) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 79/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.802	-11.270	-.05474	-.00974	-.02382	.01071	.00908	22.00600	14.40200	6.49000
.802	-9.320	-.03194	-.00606	-.01893	.00604	.00267	22.00600	14.40200	6.49000
.802	-7.150	-.00813	-.00191	-.01297	.00733	.00147	22.00600	14.40200	6.49000
.802	-4.990	.02039	.00315	-.00614	.01242	.00439	22.00600	14.40200	6.49000
.802	-2.840	.04716	.00772	.00019	.01501	.01087	22.00600	14.40200	6.49000
.802	-.650	.07349	.01239	.00734	.01829	.01247	22.00600	14.40200	6.49000
.802	1.510	.09879	.01687	.01488	.02096	.01224	22.00600	14.40200	6.49000
.802	3.680	.12882	.02242	.02190	.02377	.00379	22.00600	14.40200	6.49000
.802	5.880	.15860	.02783	.02853	.02295	-.00739	22.00600	14.40200	6.49000
.802	8.040	.18087	.03168	.03340	.02004	-.02009	22.00600	14.40200	6.49000
.802	10.140	.18146	.03012	.03535	.01091	-.03071	22.00600	14.40200	6.49000
	GRADIENT	.01238	.00220	.00326	.00132	.00001	-.00000	-.00000	-.00000

RUN NO. 80/ 0 RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.902	-11.590	-.06582	-.01159	-.02664	-.00392	-.00375	22.00200	12.98200	7.39100
.902	-9.580	-.04577	-.00834	-.02195	-.00434	-.00140	22.00200	12.98200	7.39100
.902	-7.340	-.02245	-.00449	-.01555	-.00302	-.00395	22.00200	12.98200	7.39100
.902	-5.120	.00420	.00024	-.00923	-.00014	-.00217	22.00200	12.98200	7.39100
.902	-2.940	.03809	.00618	-.00194	.00262	.00371	22.00200	12.98200	7.39100
.902	-.730	.06920	.01165	.00555	.00668	.00501	22.00200	12.98200	7.39100
.902	1.440	.09587	.01573	.01369	.01079	.00161	22.00200	12.98200	7.39100
.902	3.630	.12121	.01972	.02007	.01093	-.00906	22.00200	12.98200	7.39100
.902	5.880	.14393	.02351	.02567	.01175	-.01691	22.00200	12.98200	7.39100
.902	8.040	.16806	.02780	.03036	.00766	-.02966	22.00200	12.98200	7.39100
.902	10.180	.17538	.02863	.03272	.00299	-.03775	22.00200	12.98200	7.39100
	GRADIENT	.01262	.00204	.00339	.00133	-.00190	.00000	.00000	.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON (TA6017) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 62/ 0 RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.101	-12.200	-.10039	-.01827	-.01988	.00224	.01073	22.01400	10.28800	8.74100
1.101	-10.090	-.07105	-.01305	-.01571	-.00322	.00535	22.01400	10.28800	8.74100
1.101	-7.770	-.03854	-.00715	-.01044	-.00669	.00145	22.01400	10.28800	8.74100
1.101	-5.460	-.00273	-.00065	-.00433	-.00683	.01002	22.01400	10.28800	8.74100
1.101	-3.160	.03526	.00654	.00119	-.00675	.01047	22.01400	10.28800	8.74100
1.101	-.870	.07766	.01376	.00721	-.00201	-.00132	22.01400	10.28800	8.74100
1.101	1.350	.11402	.01943	.01316	.00553	-.01155	22.01400	10.28800	8.74100
1.101	3.610	.14499	.02439	.01859	.00447	-.02434	22.01400	10.28800	8.74100
1.101	5.910	.17497	.02938	.02321	-.00024	-.03695	22.01400	10.28800	8.74100
1.101	8.150	.19669	.03305	.02710	-.01416	-.04358	22.01400	10.28800	8.74100
1.101	10.360	.20582	.03410	.03093	-.01781	-.04766	22.01400	10.28800	8.74100
	GRADIENT	.01623	.00263	.00258	.00183	-.00509	.00000	.00000	.00000

RUN NO. 61/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.251	-12.210	-.09857	-.01832	-.01332	.01934	.01474	22.01300	8.47800	9.29900
1.251	-10.080	-.06556	-.01247	-.01013	.01261	.01245	22.01300	8.47800	9.29900
1.251	-7.760	-.03219	-.00622	-.00648	.01169	.00942	22.01300	8.47800	9.29900
1.251	-5.450	.00114	.00015	-.00239	.01039	.00109	22.01300	8.47800	9.29900
1.251	-3.130	.03747	.00683	.00151	.01208	-.01189	22.01300	8.47800	9.29900
1.251	-.830	.07372	.01311	.00630	.01489	-.02414	22.01300	8.47800	9.29900
1.251	1.410	.10715	.01876	.01178	.01357	-.03570	22.01300	8.47800	9.29900
1.251	3.660	.13631	.02345	.01697	.01061	-.04619	22.01300	8.47800	9.29900
1.251	5.920	.16485	.02804	.02140	-.00052	-.05253	22.01300	8.47800	9.29900
1.251	8.170	.18315	.03106	.02485	-.01850	-.05470	22.01300	8.47800	9.29900
1.251	10.400	.19340	.03237	.02793	-.02038	-.06006	22.01300	8.47800	9.29900
	GRADIENT	.01460	.00246	.00229	-.00025	-.00506	.00000	.00000	-.00000

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON (TA6017) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 41/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.459	-12.220	-.05993	-.01097	-.00901	.04104	.01434	22.03700	6.36700	9.48800
1.459	-10.070	-.03617	-.00698	-.00773	.03512	.00107	22.03700	6.36700	9.48800
1.459	-7.740	-.01138	-.00277	-.00583	.02639	-.01375	22.03700	6.36700	9.48800
1.459	-5.410	.01532	.00194	-.00381	.01612	-.03033	22.03700	6.36700	9.48800
1.459	-3.110	.04541	.00727	-.00064	.00483	-.04120	22.03700	6.36700	9.48800
1.459	-.830	.07496	.01244	.00305	-.00098	-.05135	22.03700	6.36700	9.48800
1.459	1.470	.10561	.01768	.00695	-.00501	-.05996	22.03700	6.36700	9.48800
1.459	3.730	.13429	.02246	.01140	-.00963	-.06392	22.03700	6.36700	9.48800
1.459	5.980	.15812	.02648	.01513	-.02063	-.06704	22.03700	6.36700	9.48800
1.459	8.250	.17671	.02965	.01764	-.03090	-.07100	22.03700	6.36700	9.48800
1.459	10.430	.18485	.03113	.01982	-.03478	-.07283	22.03700	6.36700	9.48800
	GRADIENT	.01303	.00223	.00175	-.00208	-.00337	.00000	.00000	.00000

MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON (TA6018) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 66/ 0 RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.802	-11.300	-.06676	-.01130	-.02803	.00942	.01114	22.00600	14.39800	6.49300
.802	-9.370	-.04466	-.00760	-.02300	.00923	.00382	22.00600	14.39800	6.49300
.802	-7.200	-.01987	-.00326	-.01707	.00849	.00181	22.00600	14.39800	6.49300
.802	-5.030	.00926	.00179	-.01019	.01316	.00361	22.00600	14.39800	6.49300
.802	-2.880	.03820	.00670	-.00315	.01524	.00965	22.00600	14.39800	6.49300
.802	-.720	.06407	.01122	.00392	.01834	.01149	22.00600	14.39800	6.49300
.802	1.460	.08979	.01579	.01165	.02032	.01141	22.00600	14.39800	6.49300
.802	3.640	.11741	.02090	.01863	.02192	.00381	22.00600	14.39800	6.49300
.802	5.910	.14645	.02621	.02566	.02109	-.00822	22.00600	14.39800	6.49300
.802	8.000	.16937	.02990	.03088	.01832	-.01974	22.00600	14.39800	6.49300
.802	10.070	.17023	.02892	.03315	.01225	-.03075	22.00600	14.39800	6.49300
	GRADIENT	.01211	.00217	.00336	.00101	-.00081	.00000	.00000	.00000

MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON (TA6018) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 65/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
.901	-11.600	-.08031	-.01291	-.03084	-.01047	-.00015	21.99600	12.97800	7.38900
.901	-9.620	-.06020	-.00994	-.02567	-.00414	-.00147	21.99600	12.97800	7.38900
.901	-7.370	-.03512	-.00581	-.01974	-.00238	-.00466	21.99600	12.97800	7.38900
.901	-5.150	-.00580	-.00083	-.01284	.00023	-.00145	21.99600	12.97800	7.38900
.901	-2.950	.02758	.00500	-.00578	.00094	.00188	21.99600	12.97800	7.38900
.901	-.780	.05927	.01036	.00226	.00215	.00451	21.99600	12.97800	7.38900
.901	1.400	.08888	.01497	.01033	.00720	.00149	21.99600	12.97800	7.38900
.901	3.600	.11352	.01880	.01659	.00513	-.00825	21.99600	12.97800	7.38900
.901	5.840	.13429	.02223	.02235	.00653	-.01952	21.99600	12.97800	7.38900
.901	8.030	.16058	.02688	.02780	.00565	-.02840	21.99600	12.97800	7.38900
.901	10.160	.16875	.02788	.03056	.00093	-.03737	21.99600	12.97800	7.38900
	GRADIENT	.01316	.00211	.00344	.00081	-.00153	-.00000	.00000	.00000

RUN NO. 63/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.101	-12.150	-.11873	-.02084	-.02415	-.00307	.01579	21.99800	10.29000	8.73100
1.101	-10.070	-.09212	-.01601	-.02054	-.00596	.00692	21.99800	10.29000	8.73100
1.101	-7.720	-.05902	-.01007	-.01552	-.00544	.00032	21.99800	10.29000	8.73100
1.101	-5.410	-.02092	-.00325	-.00985	-.00193	.00696	21.99800	10.29000	8.73100
1.101	-3.110	.01963	.00405	-.00450	-.00110	.00670	21.99800	10.29000	8.73100
1.101	-.830	.06083	.01144	.00131	-.00012	-.00159	21.99800	10.29000	8.73100
1.101	1.430	.10045	.01779	.00812	.00308	-.01192	21.99800	10.29000	8.73100
1.101	3.640	.13333	.02295	.01415	-.00004	-.02325	21.99800	10.29000	8.73100
1.101	5.940	.16459	.02821	.01947	-.00562	-.03685	21.99800	10.29000	8.73100
1.101	8.170	.18930	.03232	.02413	-.01798	-.04350	21.99800	10.29000	8.73100
1.101	10.360	.20062	.03355	.02839	-.02246	-.04831	21.99800	10.29000	8.73100
	GRADIENT	.01692	.00280	.00279	.00029	-.00445	.00000	.00000	-.00000

MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON (TA6018) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 64/ 0 RN/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.252	-12.200	-.11161	-.02009	-.01719	.00692	.01837	21.99000	8.46000	9.29100
1.252	-10.090	-.08272	-.01500	-.01403	.00226	.01519	21.99000	8.46000	9.29100
1.252	-7.740	-.05026	-.00885	-.01085	.00448	.01039	21.99000	8.46000	9.29100
1.252	-5.430	-.01800	-.00286	-.00745	.00753	.00079	21.99000	8.46000	9.29100
1.252	-3.130	.01729	.00365	-.00393	.01097	-.01402	21.99000	8.46000	9.29100
1.252	-.860	.05124	.00970	.00008	.01375	-.02527	21.99000	8.46000	9.29100
1.252	1.410	.08632	.01543	.00556	.01567	-.03298	21.99000	8.46000	9.29100
1.252	3.630	.12019	.02103	.01120	.00631	-.04366	21.99000	8.46000	9.29100
1.252	5.920	.15128	.02613	.01636	-.00356	-.05099	21.99000	8.46000	9.29100
1.252	8.170	.17378	.02983	.02079	-.01833	-.05504	21.99000	8.46000	9.29100
1.252	10.360	.18742	.03178	.02480	-.02263	-.06052	21.99000	8.46000	9.29100
	GRADIENT	.01525	.00257	.00226	-.00053	-.00428	-.00000	.00000	.00000

RUN NO. 47/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CTW	CHEI	CHEO	PO	PS	Q
1.460	-12.240	-.07103	-.01283	-.01048	.03117	.02036	22.02000	6.35300	9.48000
1.460	-10.120	-.04910	-.00916	-.00940	.02054	.00563	22.02000	6.35300	9.48000
1.460	-7.780	-.02523	-.00507	-.00759	.01394	-.01002	22.02000	6.35300	9.48000
1.460	-5.460	-.00246	-.00088	-.00558	.00619	-.02552	22.02000	6.35300	9.48000
1.460	-3.160	.02394	.00381	-.00295	.00062	-.03910	22.02000	6.35300	9.48000
1.460	-.880	.05143	.00856	.00023	-.00306	-.04938	22.02000	6.35300	9.48000
1.460	1.420	.08121	.01371	.00386	-.01009	-.05983	22.02000	6.35300	9.48000
1.460	3.670	.10985	.01861	.00756	-.01443	-.06693	22.02000	6.35300	9.48000
1.460	5.910	.13770	.02331	.01071	-.02638	-.07032	22.02000	6.35300	9.48000
1.460	8.180	.15904	.02699	.01338	-.03949	-.07142	22.02000	6.35300	9.48000
1.460	10.360	.16812	.02879	.01595	-.03590	-.07118	22.02000	6.35300	9.48000
	GRADIENT	.01262	.00217	.00154	-.00229	-.00412	.00000	.00000	.00000

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (UA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 81/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.601	-10.880	-.22900	-.25700	-.23800	-.23500	-.32100	-.29500	-.27500	-.32900	-.27500	-.27900
.601	-8.950	-.20900	-.22500	-.21000	-.20000	-.28500	-.27000	-.24600	-.28600	-.23400	-.25000
.601	-6.860	-.20800	-.22400	-.21700	-.19800	-.26800	-.25900	-.23000	-.26700	-.21500	-.22400
.601	-4.760	-.19900	-.22500	-.21200	-.20000	-.26500	-.25500	-.22400	-.24400	-.21400	-.21600
.601	-2.680	-.18800	-.20200	-.19500	-.18200	-.26100	-.24900	-.22000	-.24200	-.20500	-.20300
.601	-.570	-.19300	-.21400	-.20500	-.19700	-.27600	-.25600	-.21400	-.22700	-.20400	-.21200
.601	1.540	-.17000	-.19900	-.18800	-.17600	-.26700	-.25400	-.20600	-.20700	-.18500	-.18000
.601	3.650	-.18100	-.20500	-.19500	-.18500	-.28200	-.26400	-.21900	-.21300	-.19300	-.19900
.601	5.780	-.15900	-.17500	-.17600	-.17000	-.28300	-.26500	-.20000	-.19800	-.17700	-.18200
.601	7.870	-.15800	-.17600	-.17400	-.16600	-.29300	-.28600	-.20400	-.19600	-.18100	-.18500
.601	9.900	-.14400	-.16000	-.16100	-.15200	-.30200	-.30600	-.18900	-.21400	-.17400	-.17200
	GRADIENT	.00257	.00204	.00195	.00171	-.00190	-.00110	.00114	.00461	.00295	.00271

RUN NO. 1/ 0 RN/L = 5.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.801	-11.230	-.27300	-.31700	-.28100	-.28700	-.29200	-.32400	-.29900	-.34300	-.33300	-.29600
.801	-9.320	-.25100	-.29100	-.26600	-.25800	-.27800	-.29800	-.26400	-.30300	-.29000	-.25500
.801	-7.160	-.26300	-.29800	-.27600	-.25800	-.27100	-.28600	-.25200	-.28600	-.27900	-.25100
.801	-5.020	-.24700	-.27500	-.25900	-.24500	-.26600	-.28300	-.25000	-.28900	-.26900	-.25300
.801	-2.840	-.23300	-.26700	-.24800	-.23700	-.27500	-.27900	-.23600	-.27000	-.24900	-.22600
.801	-.700	-.23100	-.26300	-.24200	-.23100	-.29200	-.28600	-.23800	-.26000	-.25500	-.23400
.801	1.520	-.20500	-.23600	-.22100	-.20700	-.28800	-.28300	-.23900	-.24700	-.23900	-.22100
.801	3.710	-.21700	-.23700	-.22100	-.20600	-.29000	-.28300	-.23500	-.26000	-.24000	-.22500
.801	5.910	-.20300	-.22800	-.21700	-.20000	-.30700	-.30000	-.23900	-.26300	-.25000	-.23500
.801	8.060	-.20200	-.22300	-.21200	-.19900	-.32500	-.32700	-.24200	-.25600	-.24700	-.23100
.801	9.980	-.19700	-.21600	-.20000	-.18600	-.33900	-.33300	-.24600	-.24800	-.25000	-.23800
	GRADIENT	.00339	.00536	.00467	.00536	-.00186	-.00040	.00009	.00196	.00198	.00074

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (UA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 2/ O RN/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.901	-11.630	-.34500	-.36600	-.34500	-.33500	-.25400	-.30800	-.31400	-.33500	-.35800	-.33100
.901	-9.600	-.33200	-.35700	-.33900	-.32100	-.26000	-.30500	-.29400	-.30700	-.32900	-.31500
.901	-7.380	-.32900	-.35100	-.33800	-.31900	-.25700	-.29400	-.27800	-.30300	-.31400	-.30200
.901	-5.140	-.31100	-.32600	-.31900	-.30000	-.23500	-.27600	-.25900	-.27600	-.28900	-.28700
.901	-2.940	-.28600	-.30100	-.29000	-.27700	-.24100	-.28000	-.25400	-.27000	-.27800	-.27500
.901	-.770	-.25600	-.28200	-.27100	-.25700	-.28000	-.29100	-.27500	-.26200	-.29100	-.25900
.901	1.430	-.24400	-.26400	-.25600	-.24200	-.29400	-.29600	-.28500	-.26600	-.29600	-.26300
.901	3.610	-.24100	-.25800	-.24700	-.23600	-.29600	-.29100	-.28000	-.26300	-.28700	-.27400
.901	5.820	-.24000	-.25400	-.25000	-.23400	-.32500	-.32000	-.29600	-.27800	-.30200	-.28000
.901	8.040	-.23000	-.24200	-.23500	-.22300	-.34100	-.34300	-.28600	-.26800	-.30300	-.27100
.901	10.140	-.22600	-.23400	-.22700	-.21300	-.36600	-.36300	-.28400	-.25900	-.29200	-.25700
	GRADIENT	.00672	.00673	.00659	.00631	-.00819	-.00174	-.00403	.00078	-.00146	-.00005

RUN NO. 82/ O RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.950	-11.770	-.39400	-.40800	-.41400	-.41100	-.27500	-.30600	-.32000	-.35200	-.36000	-.36100
.950	-9.770	-.35000	-.36100	-.36600	-.36600	-.24800	-.28000	-.27500	-.30300	-.30000	-.30300
.950	-7.500	-.36300	-.37500	-.38400	-.37200	-.26300	-.28900	-.29900	-.31100	-.31400	-.31200
.950	-5.270	-.35100	-.34800	-.36400	-.36000	-.25900	-.28300	-.29000	-.29400	-.29800	-.29700
.950	-3.050	-.34000	-.33700	-.34900	-.34600	-.26400	-.28400	-.27800	-.28700	-.28800	-.28800
.950	-.810	-.32400	-.31700	-.33400	-.33400	-.26400	-.29200	-.27600	-.28200	-.28700	-.28500
.950	1.370	-.29400	-.29800	-.30600	-.32000	-.28700	-.29600	-.28800	-.27200	-.27100	-.27300
.950	3.570	-.29000	-.29100	-.30200	-.32500	-.30500	-.30800	-.30400	-.28700	-.28300	-.28500
.950	5.780	-.27300	-.28000	-.28700	-.31000	-.33200	-.34200	-.32300	-.29500	-.30500	-.30100
.950	8.010	-.26200	-.27300	-.27700	-.28600	-.35500	-.36000	-.29600	-.27600	-.29300	-.27800
.950	10.170	-.26000	-.27000	-.27100	-.28400	-.38400	-.38800	-.29400	-.27800	-.29200	-.27900
	GRADIENT	.00817	.00713	.00767	.00350	-.00661	-.00345	-.00407	.00046	.00140	.00095

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (UA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 83/ O RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.050	-12.030	-.43500	-.44100	-.44700	-.43700	-.38200	-.38500	-.35200	-.34800	-.34500	-.35000
1.050	-9.940	-.38600	-.39700	-.40200	-.38900	-.34700	-.35500	-.30600	-.30400	-.30300	-.30900
1.050	-7.620	-.36600	-.37800	-.37800	-.35700	-.32800	-.34000	-.28700	-.27900	-.28200	-.28500
1.050	-5.320	-.36300	-.38700	-.39200	-.36800	-.31500	-.33900	-.28300	-.27900	-.27400	-.27300
1.050	-3.070	-.35100	-.38000	-.38100	-.35700	-.31700	-.33600	-.26400	-.25500	-.25400	-.25200
1.050	-.780	-.34700	-.36600	-.37400	-.34600	-.32400	-.33400	-.27600	-.26800	-.26600	-.26700
1.050	1.430	-.34600	-.36200	-.36300	-.34700	-.34300	-.36400	-.29700	-.29100	-.28400	-.28600
1.050	3.650	-.33600	-.35100	-.35300	-.35400	-.36800	-.38300	-.30900	-.28500	-.28000	-.27900
1.050	5.910	-.32400	-.34100	-.34000	-.33700	-.38400	-.40100	-.29200	-.28100	-.29000	-.28100
1.050	8.140	-.30200	-.31400	-.31800	-.32200	-.42700	-.45400	-.27000	-.27500	-.28400	-.25600
1.050	10.310	-.29000	-.30100	-.30800	-.32100	-.45300	-.46500	-.28800	-.25600	-.28200	-.25500
	GRADIENT	.00205	.00407	.00424	.00037	-.00767	-.00762	-.00697	-.00506	-.00430	-.00448

RUN NO. 3/ O RN/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.100	-12.250	-.48700	-.47400	-.46900	-.47700	-.43800	-.45600	-.42000	-.42900	-.43100	-.43500
1.100	-10.110	-.45300	-.44200	-.43400	-.42900	-.43000	-.43900	-.39200	-.39100	-.39300	-.39200
1.100	-7.800	-.41100	-.41100	-.40700	-.39900	-.43700	-.44500	-.37700	-.38000	-.38400	-.37900
1.100	-5.480	-.39400	-.40200	-.39600	-.38500	-.43800	-.44000	-.36600	-.36700	-.37000	-.36100
1.100	-3.170	-.37400	-.38900	-.37900	-.37200	-.45500	-.45600	-.36200	-.35900	-.36300	-.35500
1.100	-.910	-.35700	-.37300	-.36100	-.35300	-.45400	-.45500	-.35400	-.34400	-.34900	-.33800
1.100	1.370	-.34300	-.35100	-.34900	-.33600	-.45200	-.46100	-.35100	-.35300	-.35400	-.34600
1.100	3.580	-.33700	-.34900	-.34300	-.33100	-.46800	-.47600	-.34600	-.34500	-.35200	-.33600
1.100	5.830	-.33900	-.34700	-.34400	-.33300	-.49600	-.50500	-.34800	-.34500	-.35500	-.33600
1.100	8.110	-.32400	-.33100	-.32800	-.31700	-.50300	-.52300	-.34000	-.33900	-.33800	-.30400
1.100	10.260	-.32700	-.33200	-.33000	-.31900	-.51100	-.52200	-.35600	-.33800	-.33900	-.29600
	GRADIENT	.00555	.00631	.00533	.00622	-.00163	-.00292	.00226	.00146	.00124	.00217

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (UA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 84/ O RN/L = 6.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.153	-12.360	-.49900	-.48800	-.48100	-.47600	-.46100	-.43700	-.42900	-.41800	-.41600	-.43000
1.153	-10.180	-.48000	-.47900	-.47200	-.46500	-.48900	-.46600	-.40500	-.39800	-.40100	-.41100
1.153	-7.840	-.44600	-.44500	-.44300	-.43600	-.45800	-.46800	-.39400	-.39400	-.38900	-.39500
1.153	-5.520	-.41200	-.41700	-.42500	-.41300	-.48000	-.47800	-.38100	-.37500	-.37600	-.36400
1.153	-3.250	-.40100	-.40900	-.41200	-.41400	-.46300	-.49000	-.38400	-.38200	-.37000	-.37100
1.153	-.930	-.35600	-.37200	-.36700	-.36100	-.47400	-.48500	-.36400	-.37300	-.37300	-.36200
1.153	1.330	-.35300	-.36700	-.36300	-.37000	-.46200	-.48500	-.36300	-.36900	-.37000	-.35600
1.153	3.560	-.33100	-.34300	-.34500	-.34700	-.47600	-.49400	-.35000	-.35600	-.36900	-.34400
1.153	5.850	-.33200	-.35000	-.35200	-.34400	-.49100	-.51300	-.35100	-.36200	-.37000	-.34000
1.153	8.060	-.32900	-.34400	-.34500	-.33600	-.50500	-.53400	-.34200	-.35200	-.37300	-.31500
1.153	10.280	-.32600	-.33800	-.33500	-.34000	-.51500	-.54400	-.33700	-.34400	-.36600	-.31100
	GRADIENT	.00941	.00896	.00906	.00849	-.00119	-.00052	.00455	.00361	.00026	.00383

RUN NO. 4/ O RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.251	-12.250	-.36900	-.34000	-.34200	-.35400	-.39500	-.38100	-.33000	-.31700	-.32200	-.31200
1.251	-10.170	-.35000	-.32300	-.32500	-.32900	-.39100	-.37700	-.31200	-.30800	-.30500	-.29600
1.251	-7.830	-.33600	-.32100	-.31900	-.31800	-.38900	-.38000	-.30800	-.31200	-.30100	-.29400
1.251	-5.510	-.33000	-.33000	-.32100	-.31700	-.39100	-.39100	-.30900	-.29800	-.30100	-.29400
1.251	-3.220	-.32400	-.32300	-.31400	-.31100	-.40000	-.40900	-.31000	-.29800	-.30200	-.29200
1.251	-.940	-.29700	-.30000	-.29300	-.29000	-.40500	-.40700	-.30800	-.28900	-.30000	-.28700
1.251	1.360	-.28200	-.28800	-.28200	-.27700	-.40300	-.40800	-.30200	-.28000	-.29600	-.28300
1.251	3.580	-.28000	-.28600	-.28100	-.27300	-.41100	-.41800	-.29900	-.27500	-.28400	-.26500
1.251	5.830	-.28400	-.28900	-.28400	-.27500	-.42700	-.43200	-.29500	-.26200	-.27000	-.25200
1.251	8.100	-.27700	-.27900	-.27500	-.26500	-.43800	-.45000	-.28500	-.26100	-.25500	-.22600
1.251	10.230	-.27700	-.28000	-.27500	-.26400	-.44500	-.45800	-.28700	-.26200	-.26100	-.22600
	GRADIENT	.00649	.00543	.00486	.00560	-.00136	-.00123	.00172	.00344	.00255	.00373

MSFC TWT 692, O T S (BASELINE) - PLUME OFF (UA6001) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 34/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.460	-12.360	-.35000	-.33200	-.33800	-.35100	-.38600	-.37900	-.31200	-.32200	-.32000	-.31800
1.460	-10.240	-.34600	-.32400	-.32900	-.34000	-.37600	-.36400	-.30800	-.30900	-.30000	-.29900
1.460	-7.900	-.34700	-.32400	-.32800	-.34000	-.37100	-.37200	-.29900	-.31000	-.29800	-.29800
1.460	-5.570	-.34400	-.32100	-.32200	-.33100	-.36600	-.36300	-.29500	-.29200	-.28600	-.28900
1.460	-3.240	-.33400	-.31600	-.31400	-.32300	-.35400	-.37100	-.28800	-.27500	-.27300	-.27800
1.460	-.960	-.31700	-.31000	-.30100	-.31600	-.35800	-.37800	-.28100	-.27400	-.26900	-.27400
1.460	1.350	-.30600	-.30400	-.30000	-.30700	-.36200	-.37900	-.27700	-.27000	-.26000	-.26400
1.460	3.600	-.30000	-.30200	-.30100	-.30200	-.36700	-.39000	-.27000	-.27800	-.25900	-.26100
1.460	5.850	-.28400	-.29100	-.28800	-.28700	-.38100	-.40400	-.28200	-.26100	-.26100	-.25400
1.460	8.120	-.28100	-.28500	-.28200	-.27900	-.39200	-.41800	-.28200	-.26200	-.26500	-.25500
1.460	10.290	-.28000	-.28300	-.28100	-.27600	-.40500	-.42900	-.28500	-.27100	-.27800	-.26800
	GRADIENT	.00495	.00210	.00175	.00316	-.00188	-.00254	.00254	-.00021	.00224	.00267

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF (UA6002) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 8/ 0 RN/L = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.801	-11.310	-.27500	-.31200	-.28500	-.30100	-.28100	-.31100	-.28500	-.30900	-.31300	-.28200
.801	-9.340	-.25000	-.28300	-.25800	-.27100	-.26400	-.28900	-.25700	-.30000	-.28300	-.27000
.801	-7.180	-.24700	-.28000	-.26500	-.26400	-.25200	-.27200	-.24200	-.28000	-.26300	-.25500
.801	-4.990	-.24300	-.27500	-.25300	-.25400	-.25100	-.26400	-.23300	-.25400	-.25300	-.24200
.801	-2.840	-.22800	-.26600	-.23900	-.24200	-.26400	-.27100	-.22700	-.25500	-.24100	-.22200
.801	-.680	-.22000	-.25000	-.23300	-.23400	-.27700	-.27500	-.22600	-.24300	-.24000	-.21800
.801	1.500	-.20700	-.23700	-.22300	-.22200	-.28600	-.28100	-.23300	-.24400	-.23700	-.22100
.801	3.680	-.19900	-.22900	-.21400	-.21300	-.28000	-.27700	-.22700	-.24400	-.23400	-.21300
.801	5.880	-.20000	-.22500	-.21200	-.20800	-.29400	-.28700	-.22600	-.25400	-.23900	-.22200
.801	8.030	-.19200	-.21900	-.20700	-.20400	-.30700	-.31500	-.22000	-.24200	-.23100	-.21600
.801	10.090	-.18500	-.20400	-.18800	-.18900	-.32700	-.32400	-.22300	-.23600	-.23000	-.21500
	GRADIENT	.00503	.00558	.00434	.00470	-.00369	-.00166	.00028	.00143	.00194	.00272

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF (UA6002) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 7/ 0 RN/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.900	-11.600	-.34200	-.36600	-.35600	-.35200	-.26000	-.31300	-.31000	-.34000	-.35300	-.34700
.900	-9.610	-.32900	-.34600	-.33700	-.33000	-.25200	-.29700	-.28500	-.30400	-.31700	-.30900
.900	-7.350	-.30800	-.32900	-.31700	-.31800	-.23800	-.27500	-.26200	-.27900	-.28900	-.28700
.900	-5.150	-.30800	-.31900	-.31500	-.30700	-.22800	-.26400	-.25200	-.27300	-.28300	-.28500
.900	-2.960	-.28500	-.29800	-.28900	-.28800	-.23200	-.26600	-.25800	-.26000	-.26900	-.26900
.900	-.760	-.25500	-.28200	-.27100	-.26900	-.26900	-.28100	-.27000	-.26200	-.28400	-.26100
.900	1.460	-.24400	-.27300	-.26000	-.25700	-.28300	-.29100	-.28100	-.26700	-.29200	-.27200
.900	3.640	-.24300	-.26100	-.25700	-.25100	-.29200	-.29300	-.28200	-.26700	-.28600	-.27100
.900	5.870	-.23600	-.24900	-.24300	-.23700	-.31100	-.30900	-.29000	-.27200	-.29400	-.27300
.900	8.040	-.22900	-.24500	-.23700	-.23000	-.32100	-.33300	-.27100	-.25900	-.28500	-.25800
.900	10.140	-.23200	-.24800	-.23300	-.23300	-.37800	-.38700	-.30000	-.28400	-.30100	-.27000
	GRADIENT	.00623	.00545	.00486	.00559	-.00881	-.00414	-.00377	-.00118	-.00268	-.00077

RUN NO. 6/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.101	-12.210	-.47100	-.47700	-.46900	-.47400	-.41600	-.43200	-.40600	-.41900	-.42400	-.42800
1.101	-10.110	-.44400	-.46600	-.44900	-.45200	-.41800	-.42900	-.37900	-.38700	-.38300	-.38800
1.101	-7.790	-.41400	-.44300	-.42200	-.42200	-.41300	-.42600	-.35900	-.37100	-.36900	-.37100
1.101	-5.460	-.40400	-.43300	-.41400	-.41100	-.41700	-.43200	-.35300	-.36400	-.36300	-.36000
1.101	-3.180	-.39400	-.41600	-.40500	-.39700	-.42500	-.43200	-.34000	-.34800	-.34800	-.34400
1.101	-.900	-.38700	-.40200	-.39600	-.38400	-.43000	-.43800	-.33600	-.33600	-.34300	-.33600
1.101	1.350	-.37900	-.39500	-.39200	-.38200	-.45300	-.46200	-.34800	-.35600	-.35900	-.35400
1.101	3.590	-.36600	-.38300	-.37900	-.36400	-.46000	-.47400	-.33600	-.33900	-.34800	-.33400
1.101	5.860	-.35600	-.37200	-.36700	-.35200	-.47900	-.49600	-.33000	-.32900	-.33900	-.32000
1.101	8.060	-.34100	-.35700	-.35100	-.33800	-.50900	-.52500	-.33000	-.33200	-.33100	-.30100
1.101	10.230	-.33100	-.33800	-.33300	-.32300	-.50200	-.50900	-.32700	-.31500	-.32000	-.28300
	GRADIENT	.00408	.00470	.00363	.00448	-.00567	-.00665	-.00000	.00031	-.00071	.00053

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME OFF (UA6002) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 5/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.251	-12.320	-.38000	-.36200	-.35600	-.37600	-.35500	-.37900	-.31300	-.31800	-.32400	-.32100
1.251	-10.180	-.35800	-.36100	-.34200	-.36300	-.34900	-.37800	-.29500	-.29900	-.30400	-.30200
1.251	-7.840	-.35100	-.36200	-.34000	-.36400	-.36000	-.37500	-.29600	-.29800	-.30600	-.30100
1.251	-5.540	-.33800	-.35100	-.32700	-.34900	-.37200	-.37600	-.28500	-.29600	-.29700	-.29000
1.251	-3.250	-.33300	-.34700	-.32400	-.34200	-.38200	-.39200	-.28200	-.28900	-.29500	-.28500
1.251	-.950	-.31900	-.33000	-.31600	-.31900	-.38900	-.39800	-.27300	-.27600	-.28400	-.27300
1.251	1.320	-.30400	-.31400	-.30700	-.30200	-.39600	-.39900	-.27000	-.26600	-.27500	-.26400
1.251	3.560	-.28800	-.29900	-.29400	-.28600	-.40500	-.41200	-.26600	-.26300	-.27200	-.25300
1.251	5.820	-.28800	-.29600	-.29300	-.28400	-.42600	-.43400	-.26500	-.25400	-.26600	-.24200
1.251	8.020	-.27400	-.28300	-.27800	-.27000	-.44000	-.44800	-.25500	-.24600	-.24600	-.21300
1.251	10.200	-.27300	-.28000	-.27800	-.27000	-.44300	-.45200	-.24700	-.24300	-.24800	-.21800
	GRADIENT	.00661	.00705	.00436	.00815	-.00335	-.00268	.00225	.00388	.00344	.00463

RUN NO. 35/ 0 RN/L = 6.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.461	-12.360	-.34300	-.33100	-.33700	-.34600	-.35500	-.36700	-.32200	-.31300	-.32100	-.31800
1.461	-10.250	-.34300	-.33600	-.33400	-.35000	-.36000	-.37200	-.31100	-.30400	-.30500	-.30800
1.461	-7.910	-.34700	-.34000	-.33800	-.35700	-.35700	-.37700	-.30300	-.30100	-.30100	-.30500
1.461	-5.590	-.34100	-.33500	-.32800	-.35100	-.35000	-.35800	-.28900	-.30000	-.28900	-.29100
1.461	-3.260	-.33600	-.33000	-.32100	-.34500	-.34700	-.36200	-.27500	-.29400	-.28100	-.27900
1.461	-.970	-.33300	-.32800	-.32200	-.33600	-.35500	-.37600	-.27300	-.28200	-.26800	-.26900
1.461	1.310	-.32700	-.32600	-.32200	-.32900	-.35800	-.36900	-.26700	-.27000	-.25600	-.25700
1.461	3.580	-.31900	-.32400	-.32300	-.32600	-.36200	-.38600	-.26400	-.26600	-.26000	-.26100
1.461	5.830	-.32000	-.32600	-.32200	-.32300	-.37400	-.39500	-.26200	-.25600	-.25600	-.25300
1.461	8.100	-.30700	-.31600	-.31400	-.30900	-.39200	-.41700	-.25500	-.25100	-.25700	-.24800
1.461	10.270	-.29500	-.29900	-.29700	-.29400	-.39700	-.42000	-.26000	-.24400	-.25500	-.24600
	GRADIENT	.00250	.00088	-.00026	.00281	-.00211	-.00285	.00171	.00421	.00329	.00290

MSFC TWT 692.0TS + 10 DEG.RAMP(POS.2)- PLUME OFF (UA6003) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 9/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.801	-11.310	-.25600	-.29700	-.26000	-.28900	-.28200	-.30700	-.28300	-.37200	-.31600	-.29500
.801	-9.330	-.25700	-.29500	-.26400	-.28500	-.27700	-.29900	-.26200	-.34500	-.29400	-.28700
.801	-7.170	-.24800	-.28500	-.25500	-.26500	-.25600	-.26800	-.23900	-.30700	-.26400	-.26800
.801	-5.000	-.24600	-.27600	-.25600	-.26400	-.25900	-.26900	-.23600	-.27800	-.24900	-.24600
.801	-2.860	-.22700	-.25900	-.23700	-.23800	-.25800	-.26600	-.21900	-.25300	-.23300	-.22300
.801	-.680	-.21800	-.24700	-.23200	-.23200	-.27400	-.27200	-.21600	-.24000	-.23300	-.21800
.801	1.520	-.20800	-.24000	-.22500	-.22800	-.28800	-.28400	-.22700	-.23900	-.23300	-.22000
.801	3.680	-.21500	-.23900	-.23200	-.22500	-.29200	-.28500	-.22800	-.25800	-.23900	-.23200
.801	5.880	-.20700	-.22700	-.21400	-.21100	-.29400	-.28800	-.22300	-.25900	-.23300	-.22700
.801	8.030	-.19900	-.21800	-.21100	-.20300	-.30900	-.31400	-.21500	-.24800	-.22400	-.22600
.801	10.090	-.18100	-.19800	-.18900	-.18400	-.32000	-.31800	-.20900	-.22800	-.21900	-.22400
	GRADIENT	.00372	.00427	.00276	.00404	-.00442	-.00230	.00036	.00248	.00091	.00142

RUN NO. 10/ 0 RN/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.901	-11.610	-.35100	-.36200	-.35000	-.35000	-.26600	-.31000	-.30500	-.34900	-.35000	-.33300
.901	-9.600	-.32600	-.33700	-.32800	-.32800	-.25200	-.29200	-.28400	-.32500	-.31700	-.30300
.901	-7.370	-.31800	-.33500	-.32600	-.32300	-.25400	-.28000	-.27400	-.32100	-.29900	-.29400
.901	-5.140	-.31000	-.31800	-.31200	-.30900	-.23000	-.26300	-.25800	-.29400	-.27800	-.27900
.901	-2.940	-.28900	-.30000	-.29700	-.29400	-.23900	-.26900	-.25400	-.27100	-.26900	-.26900
.901	-.750	-.25400	-.28200	-.26500	-.26900	-.26400	-.27500	-.24700	-.25400	-.26500	-.25200
.901	1.460	-.24200	-.26600	-.25200	-.25300	-.27200	-.27700	-.26300	-.25700	-.26900	-.25900
.901	3.630	-.24000	-.25500	-.24900	-.24400	-.28000	-.28200	-.26600	-.25900	-.26500	-.25500
.901	5.870	-.24200	-.25700	-.24600	-.24200	-.30700	-.30800	-.27700	-.27100	-.28600	-.27600
.901	8.040	-.23200	-.24200	-.23800	-.23100	-.32300	-.33500	-.25300	-.25800	-.27500	-.26200
.901	10.140	-.23900	-.24700	-.24200	-.23700	-.36800	-.37100	-.27700	-.26700	-.28700	-.26200
	GRADIENT	.00726	.00689	.00717	.00758	-.00598	-.00187	-.00237	.00151	.00036	.00160

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF (UA6003) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 11/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.100	-12.230	-.47700	-.47800	-.47000	-.47800	-.41900	-.43800	-.40700	-.42700	-.43000	-.43300
1.100	-10.110	-.44500	-.46300	-.44600	-.44600	-.42400	-.43100	-.38100	-.40000	-.39500	-.39700
1.100	-7.800	-.41100	-.44000	-.42100	-.41400	-.41400	-.42400	-.36200	-.37900	-.36800	-.36800
1.100	-5.440	-.40000	-.42700	-.40700	-.40400	-.42600	-.42800	-.35700	-.36600	-.36500	-.36100
1.100	-3.170	-.38800	-.40800	-.39600	-.38600	-.42800	-.43700	-.34800	-.35600	-.35600	-.34900
1.100	-.890	-.37300	-.38900	-.38000	-.37100	-.43000	-.43700	-.34100	-.34000	-.34300	-.33800
1.100	1.370	-.37300	-.38300	-.37900	-.36800	-.45000	-.46200	-.35300	-.35700	-.35900	-.35600
1.100	3.600	-.35600	-.36700	-.36500	-.35200	-.45700	-.47400	-.34000	-.34200	-.35500	-.35000
1.100	5.890	-.34900	-.36200	-.35700	-.34700	-.47600	-.49600	-.32900	-.33600	-.34100	-.33300
1.100	8.110	-.33400	-.34100	-.33700	-.32300	-.50200	-.52100	-.32700	-.33100	-.33000	-.29600
1.100	10.260	-.33400	-.33900	-.34100	-.33300	-.51600	-.52200	-.33500	-.33600	-.33500	-.30300
	GRADIENT	.00425	.00572	.00417	.00465	-.00474	-.00602	.00053	.00111	-.00057	-.00093

RUN NO. 12/ 0 RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.250	-12.280	-.37400	-.35700	-.34900	-.37100	-.35100	-.36800	-.30900	-.31100	-.31800	-.31800
1.250	-10.150	-.36300	-.35900	-.34500	-.36800	-.35600	-.37500	-.29800	-.31200	-.30700	-.30700
1.250	-7.830	-.34900	-.35700	-.33300	-.35500	-.36900	-.37500	-.29400	-.31400	-.30200	-.30100
1.250	-5.490	-.33400	-.35100	-.32700	-.34300	-.38500	-.37800	-.28800	-.30700	-.29800	-.29300
1.250	-3.110	-.32500	-.34100	-.31900	-.33300	-.38800	-.39500	-.28300	-.29500	-.29500	-.29000
1.250	-.920	-.31300	-.32200	-.31200	-.31200	-.39500	-.40200	-.28100	-.28700	-.29000	-.28300
1.250	1.380	-.29600	-.30700	-.29900	-.29300	-.40000	-.39900	-.27300	-.27700	-.28000	-.27400
1.250	3.590	-.27900	-.28900	-.28400	-.27800	-.40800	-.41300	-.27000	-.26400	-.27100	-.25800
1.250	5.880	-.28300	-.29300	-.28800	-.28000	-.42700	-.43100	-.26800	-.26100	-.26300	-.24500
1.250	8.090	-.27500	-.27900	-.27700	-.26700	-.44000	-.44700	-.25900	-.25600	-.25400	-.22000
1.250	10.260	-.27300	-.28100	-.27800	-.26800	-.44500	-.44800	-.25600	-.24900	-.25400	-.22100
	GRADIENT	.00692	.00763	.00527	.00821	-.00290	-.00227	.00210	.00460	.00366	.00469

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME OFF (UA6003) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 36/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.459	-12.390	-.34500	-.33300	-.33900	-.35200	-.36300	-.37600	-.32700	-.32500	-.33300	-.32500
1.459	-10.240	-.34400	-.33100	-.33300	-.35000	-.36200	-.37100	-.31200	-.30600	-.30500	-.31100
1.459	-7.910	-.34500	-.33500	-.33300	-.35300	-.35800	-.37600	-.30300	-.29900	-.29800	-.30300
1.459	-5.580	-.34200	-.33400	-.32900	-.35300	-.35200	-.36300	-.29600	-.30100	-.29200	-.29600
1.459	-3.270	-.34100	-.33200	-.32700	-.34600	-.34700	-.36300	-.28600	-.29200	-.28500	-.28600
1.459	-.970	-.33300	-.32900	-.32100	-.33700	-.35300	-.37400	-.27000	-.29200	-.27400	-.27200
1.459	1.310	-.32600	-.32500	-.32000	-.32900	-.35700	-.37100	-.26800	-.27900	-.26000	-.26200
1.459	3.570	-.32000	-.32300	-.32100	-.32300	-.35700	-.38500	-.26000	-.26300	-.25700	-.25600
1.459	5.840	-.31000	-.31700	-.31400	-.31500	-.38000	-.40100	-.26400	-.26400	-.26100	-.25800
1.459	8.100	-.29600	-.30100	-.29800	-.29500	-.39300	-.41700	-.25900	-.25400	-.25800	-.25000
1.459	10.280	-.28900	-.29400	-.29200	-.28700	-.40300	-.42700	-.27400	-.25600	-.26500	-.25200
	GRADIENT	.00307	.00136	.00084	.00338	-.00149	-.00276	.00351	.00438	.00430	.00439

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF (UA6004) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 16/ 0 RN/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.800	-11.320	-.25600	-.29500	-.25500	-.29000	-.27300	-.31300	-.27700	-.35900	-.32100	-.29400
.800	-9.340	-.25200	-.27900	-.25200	-.26600	-.26600	-.28900	-.24800	-.33000	-.28800	-.27100
.800	-7.150	-.24900	-.27500	-.24900	-.25900	-.25100	-.27800	-.23800	-.31000	-.26900	-.26100
.800	-4.990	-.24400	-.27500	-.25100	-.25600	-.26100	-.27800	-.23800	-.28500	-.26000	-.24000
.800	-2.840	-.22500	-.25300	-.23000	-.23400	-.25700	-.27400	-.22000	-.25500	-.23600	-.21700
.800	-.680	-.21200	-.24300	-.22300	-.22500	-.26200	-.27400	-.21200	-.23800	-.22900	-.21100
.800	1.500	-.21000	-.23300	-.22100	-.22100	-.28100	-.29000	-.22300	-.24300	-.23500	-.21800
.800	3.670	-.20200	-.22400	-.21300	-.21100	-.27400	-.28100	-.21900	-.25600	-.23100	-.21800
.800	5.870	-.20500	-.22500	-.21200	-.21000	-.29100	-.29000	-.22200	-.26100	-.23400	-.22400
.800	8.020	-.19700	-.21700	-.20200	-.19900	-.30500	-.31700	-.21500	-.24300	-.22000	-.22100
.800	10.120	-.18000	-.19600	-.18700	-.18400	-.31900	-.32400	-.20900	-.23200	-.22300	-.21900
	GRADIENT	.00457	.00563	.00392	.00475	-.00231	-.00102	.00161	.00322	.00272	.00198

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME OFF (UA6004) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 15/ 0 RN/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.900	-11.600	-.35200	-.36500	-.34900	-.34800	-.26200	-.32000	-.31100	-.35400	-.35000	-.34200
.900	-9.600	-.32600	-.34400	-.33100	-.33300	-.25700	-.30400	-.28800	-.32000	-.31700	-.30000
.900	-7.350	-.30600	-.31900	-.30300	-.30600	-.23200	-.27300	-.25900	-.30300	-.29300	-.27500
.900	-5.160	-.30800	-.31700	-.31300	-.30900	-.23400	-.26800	-.26000	-.27900	-.27800	-.27100
.900	-2.940	-.29000	-.30200	-.29900	-.29400	-.24100	-.27600	-.25600	-.27700	-.27500	-.27600
.900	-.760	-.25000	-.27200	-.25700	-.26400	-.26100	-.28400	-.25800	-.25900	-.27800	-.26300
.900	1.440	-.23800	-.25700	-.25200	-.24900	-.26800	-.28900	-.25900	-.25200	-.27000	-.25500
.900	3.610	-.23600	-.25100	-.24100	-.24000	-.27600	-.28100	-.26000	-.25400	-.26700	-.25800
.900	5.840	-.23800	-.25000	-.24500	-.24000	-.30700	-.31200	-.27500	-.26700	-.28300	-.27400
.900	8.030	-.23300	-.24100	-.23600	-.23000	-.31900	-.33700	-.25800	-.25700	-.27600	-.26500
.900	10.160	-.26500	-.27800	-.27700	-.26600	-.39600	-.40500	-.31200	-.30000	-.31200	-.30400
	GRADIENT	.00797	.00769	.00819	.00810	-.00513	-.00092	-.00059	.00348	.00147	.00284

RUN NO. 14/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.098	-12.220	-.48100	-.48000	-.46900	-.47600	-.41400	-.44000	-.42400	-.43200	-.43000	-.43300
1.098	-10.120	-.43900	-.46000	-.44000	-.44500	-.42700	-.44900	-.39000	-.40700	-.40600	-.40200
1.098	-7.790	-.41100	-.44200	-.42100	-.41900	-.42200	-.44800	-.36800	-.38600	-.38600	-.37900
1.098	-5.480	-.39300	-.42300	-.40600	-.40100	-.42500	-.44200	-.35800	-.36400	-.36900	-.35900
1.098	-3.210	-.37800	-.40400	-.38900	-.38000	-.42200	-.43500	-.33900	-.34000	-.34300	-.33500
1.098	-.890	-.36100	-.38000	-.37100	-.36200	-.43500	-.45300	-.34600	-.34700	-.35400	-.34400
1.098	1.340	-.35000	-.36500	-.35900	-.34500	-.43600	-.45700	-.33800	-.34800	-.34900	-.34200
1.098	3.580	-.34400	-.35800	-.35000	-.34500	-.46200	-.48700	-.34000	-.34500	-.35300	-.34400
1.098	5.840	-.34200	-.35600	-.35100	-.34100	-.47500	-.50300	-.33000	-.33100	-.33800	-.32800
1.098	8.100	-.33100	-.33200	-.33300	-.31900	-.50300	-.53000	-.32800	-.32900	-.33600	-.30000
1.098	10.280	-.33700	-.34300	-.34100	-.33100	-.52000	-.53900	-.34400	-.33800	-.35200	-.30600
	GRADIENT	.00501	.00678	.00572	.00541	-.00535	-.00708	.00021	-.00072	-.00112	-.00111

MSFC TWT 692.OTS + 10 DEG.RAMP(POS.3)- PLUME OFF (UA6004) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 13/ 0 RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.250	-12.300	-.37800	-.35100	-.34700	-.36800	-.36600	-.38700	-.31000	-.32000	-.32800	-.32600
1.250	-10.170	-.35900	-.34700	-.33300	-.35500	-.35900	-.37700	-.29000	-.30800	-.30700	-.30800
1.250	-7.830	-.34800	-.35300	-.33300	-.35300	-.37500	-.38700	-.28900	-.31300	-.30500	-.30600
1.250	-5.510	-.32800	-.34500	-.32200	-.33700	-.39000	-.38800	-.27900	-.30500	-.30200	-.29700
1.250	-3.220	-.31800	-.33500	-.31500	-.32800	-.39100	-.40400	-.27500	-.29400	-.29900	-.29100
1.250	-.920	-.30200	-.31500	-.30200	-.30500	-.39700	-.41500	-.27200	-.28600	-.29100	-.28400
1.250	1.380	-.28800	-.29900	-.29200	-.28600	-.39900	-.41500	-.26400	-.27700	-.28300	-.27700
1.250	3.590	-.28100	-.29000	-.28400	-.27900	-.41300	-.43000	-.26500	-.26800	-.28000	-.27100
1.250	5.830	-.28000	-.28700	-.28200	-.27400	-.42900	-.44800	-.25500	-.25700	-.26600	-.25000
1.250	8.090	-.27800	-.28000	-.27700	-.26900	-.44500	-.47300	-.25400	-.25500	-.25900	-.22200
1.250	10.280	-.27200	-.27900	-.27700	-.26700	-.44600	-.46800	-.25100	-.24900	-.26000	-.22400
	GRADIENT	.00551	.00665	.00454	.00732	-.00298	-.00342	.00168	.00383	.00286	.00295

RUN NO. 37/ 0 RN/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.462	-12.380	-.34500	-.33000	-.33600	-.34900	-.35800	-.37300	-.33000	-.32300	-.33000	-.32300
1.462	-10.260	-.34100	-.32400	-.32600	-.34400	-.36400	-.37200	-.31300	-.31200	-.30900	-.31100
1.462	-7.920	-.34600	-.33400	-.33300	-.35300	-.36700	-.37900	-.30800	-.30800	-.30400	-.31100
1.462	-5.580	-.34100	-.33200	-.32800	-.35000	-.35800	-.36700	-.29800	-.30900	-.29500	-.29800
1.462	-3.270	-.33400	-.32600	-.32100	-.34100	-.35100	-.36500	-.28800	-.29900	-.28400	-.28700
1.462	-.960	-.32700	-.32300	-.31600	-.33200	-.35700	-.37100	-.27900	-.29400	-.27300	-.27400
1.462	1.320	-.31700	-.31700	-.31000	-.32100	-.35900	-.37400	-.27400	-.28100	-.26400	-.26400
1.462	3.580	-.31200	-.31600	-.31200	-.31800	-.36100	-.39000	-.26500	-.27500	-.26300	-.26000
1.462	5.830	-.29600	-.30200	-.29700	-.29900	-.37900	-.40200	-.26700	-.26100	-.26100	-.25600
1.462	8.110	-.28600	-.29100	-.28700	-.28500	-.39600	-.42000	-.27900	-.25800	-.26500	-.24700
1.462	10.260	-.28000	-.28600	-.28400	-.27900	-.40300	-.42400	-.28200	-.26100	-.27100	-.25300
	GRADIENT	.00333	.00158	.00145	.00351	-.00140	-.00341	.00324	.00372	.00316	.00399

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF (UA6005) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 17/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.802	-11.350	-.25200	-.28800	-.25400	-.28200	-.31600	-.31500	-.32900	-.37700	-.33300	-.28000
.802	-9.350	-.24700	-.28400	-.24900	-.27300	-.30800	-.31100	-.31200	-.37700	-.31000	-.26900
.802	-7.200	-.23900	-.27000	-.24500	-.26400	-.30100	-.29100	-.29200	-.33800	-.29300	-.25500
.802	-5.030	-.23100	-.26300	-.23600	-.24800	-.28100	-.28300	-.27200	-.29900	-.28300	-.25600
.802	-2.850	-.22500	-.25900	-.23400	-.24100	-.27900	-.28200	-.25700	-.25700	-.25200	-.23000
.802	-.690	-.22200	-.25100	-.23300	-.23400	-.28000	-.28600	-.24400	-.24200	-.24300	-.23100
.802	1.490	-.21700	-.24300	-.22900	-.22800	-.28500	-.28900	-.24200	-.23400	-.23400	-.22900
.802	3.640	-.21400	-.23900	-.22500	-.22100	-.28300	-.28300	-.23700	-.23800	-.23200	-.22400
.802	5.830	-.20900	-.23900	-.22600	-.21600	-.29500	-.30100	-.23700	-.23700	-.23100	-.23300
.802	7.980	-.20300	-.22600	-.21900	-.20900	-.31300	-.31900	-.24600	-.21900	-.23200	-.22800
.802	10.080	-.20200	-.21700	-.21100	-.20000	-.33000	-.32900	-.23600	-.21100	-.23100	-.22500
	GRADIENT	.00176	.00314	.00143	.00305	-.00079	-.00028	.00286	.00300	.00319	.00092

RUN NO. 18/ 0 RN/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.901	-11.660	-.34700	-.36300	-.34100	-.34900	-.33100	-.33700	-.38800	-.37200	-.39200	-.35900
.901	-9.620	-.31000	-.33100	-.31600	-.31300	-.30400	-.31300	-.33800	-.33800	-.35000	-.31600
.901	-7.390	-.30300	-.32300	-.30900	-.31400	-.31000	-.31000	-.32500	-.34700	-.33300	-.30800
.901	-5.170	-.30000	-.32400	-.30900	-.31100	-.29600	-.30700	-.32100	-.30000	-.32300	-.30300
.901	-2.980	-.27300	-.30000	-.28500	-.28800	-.28600	-.29400	-.30200	-.26400	-.29600	-.27200
.901	-.780	-.26200	-.29100	-.27700	-.27900	-.29300	-.30400	-.29400	-.26000	-.28700	-.25800
.901	1.430	-.26400	-.29000	-.28900	-.28000	-.30300	-.31500	-.30000	-.26600	-.29000	-.26200
.901	3.600	-.25300	-.26900	-.26200	-.25100	-.29100	-.29300	-.26800	-.24800	-.26900	-.25300
.901	5.810	-.24600	-.26100	-.25300	-.24400	-.30700	-.31900	-.29300	-.26000	-.28600	-.27300
.901	8.000	-.24200	-.25500	-.24900	-.24300	-.33100	-.34700	-.29600	-.26400	-.28200	-.25800
.901	10.120	-.23500	-.24000	-.23200	-.22400	-.34800	-.36100	-.29100	-.26000	-.27800	-.25500
	GRADIENT	.00264	.00428	.00258	.00500	-.00115	-.00038	.00436	.00191	.00355	.00241

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF (UA6005) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 19/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.099	-12.300	-.48000	-.49300	-.48200	-.48900	-.46400	-.46900	-.45300	-.46500	-.46000	-.46500
1.099	-10.160	-.45300	-.47700	-.45900	-.46300	-.46100	-.45200	-.41900	-.42700	-.42500	-.42700
1.099	-7.840	-.42300	-.45200	-.43100	-.43200	-.44500	-.44300	-.38900	-.38800	-.38900	-.39100
1.099	-5.520	-.42100	-.44500	-.42700	-.42600	-.44000	-.43700	-.37300	-.36500	-.37300	-.37200
1.099	-3.220	-.40900	-.42700	-.41800	-.41200	-.43700	-.44200	-.36000	-.35200	-.36000	-.35200
1.099	-.950	-.40000	-.41400	-.41000	-.39800	-.43400	-.43800	-.34800	-.33600	-.34100	-.33600
1.099	1.320	-.40300	-.41700	-.41200	-.41200	-.40700	-.44500	-.34400	-.31900	-.32900	-.32200
1.099	3.530	-.39400	-.40900	-.40100	-.40300	-.42300	-.45800	-.33200	-.30400	-.31500	-.31100
1.099	5.800	-.39400	-.40600	-.40400	-.39100	-.45500	-.49500	-.33500	-.31000	-.32700	-.31400
1.099	8.030	-.34900	-.36500	-.36400	-.35200	-.47900	-.51500	-.29700	-.29500	-.30800	-.28400
1.099	10.240	-.35000	-.36800	-.36600	-.35500	-.51000	-.53300	-.32700	-.31000	-.32400	-.30100
	GRADIENT	.00186	.00226	.00217	.00057	.00308	-.00243	.00391	.00715	.00653	.00609

RUN NO. 20/ 0 RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.250	-12.330	-.36800	-.36000	-.34900	-.37400	-.38800	-.39600	-.33200	-.34000	-.33500	-.33700
1.250	-10.180	-.36000	-.36100	-.34300	-.36500	-.37500	-.37800	-.31100	-.32200	-.31300	-.31700
1.250	-7.840	-.35700	-.36700	-.34500	-.36400	-.36800	-.37500	-.30400	-.31100	-.30400	-.30700
1.250	-5.530	-.35300	-.36500	-.34800	-.36300	-.37300	-.37800	-.29700	-.29100	-.29300	-.29500
1.250	-3.220	-.35200	-.36200	-.34500	-.35800	-.37800	-.38300	-.29000	-.28000	-.28200	-.28000
1.250	-.940	-.34500	-.35600	-.34500	-.34900	-.38100	-.39000	-.27000	-.26100	-.27100	-.26000
1.250	1.350	-.34800	-.35200	-.34600	-.34400	-.37800	-.39300	-.25900	-.25600	-.26100	-.25200
1.250	3.550	-.33300	-.34300	-.33600	-.33200	-.38600	-.40400	-.25100	-.23400	-.24300	-.23700
1.250	5.800	-.32700	-.33700	-.33100	-.32500	-.40500	-.42800	-.23900	-.21900	-.23500	-.22700
1.250	8.030	-.30000	-.31400	-.30300	-.28900	-.42400	-.45400	-.23700	-.22400	-.22800	-.21100
1.250	10.200	-.28400	-.30400	-.29800	-.28700	-.43800	-.45900	-.24000	-.22000	-.23100	-.21800
	GRADIENT	.00238	.00270	.00114	.00367	-.00092	-.00291	.00567	.00632	.00561	.00606

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME OFF (UA6005) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 38/ 0 RN/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.460	-12.430	-.33600	-.32700	-.32700	-.34700	-.36700	-.37800	-.32400	-.32200	-.32500	-.32300
1.460	-10.320	-.33900	-.33400	-.32900	-.35400	-.37200	-.38000	-.31500	-.31700	-.31500	-.31600
1.460	-7.900	-.34300	-.33800	-.33200	-.35700	-.36000	-.37200	-.30500	-.31800	-.30600	-.30900
1.460	-5.630	-.34200	-.33500	-.32900	-.35500	-.35000	-.35600	-.29400	-.30700	-.28900	-.29600
1.460	-3.320	-.34300	-.33500	-.32900	-.35200	-.34800	-.35700	-.28600	-.29700	-.28200	-.28400
1.460	-1.000	-.33700	-.33400	-.32600	-.34200	-.34700	-.36300	-.27200	-.28200	-.26800	-.27100
1.460	1.260	-.33400	-.33000	-.33000	-.33500	-.34900	-.36100	-.24800	-.24800	-.24500	-.24600
1.460	3.540	-.33300	-.33300	-.33300	-.33400	-.35900	-.36900	-.24700	-.24200	-.23800	-.24300
1.460	5.780	-.33100	-.33500	-.33300	-.33300	-.36600	-.38400	-.24900	-.23100	-.23500	-.23700
1.460	8.040	-.32400	-.32900	-.32800	-.32700	-.38200	-.40100	-.25400	-.22500	-.22600	-.22900
1.460	10.230	-.31900	-.32400	-.32300	-.31900	-.38100	-.40100	-.23500	-.23900	-.22300	-.23500
	GRADIENT	.00145	.00044	-.00070	.00267	-.00153	-.00149	.00617	.00871	.00679	.00648

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF (UA6006) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 24/ 0 RN/L = 6.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.800	-11.280	-.26000	-.29000	-.26100	-.29000	-.31300	-.31900	-.32000	-.37300	-.34700	-.26600
.800	-9.370	-.24600	-.27800	-.25100	-.27200	-.30700	-.31100	-.30300	-.38400	-.31900	-.24400
.800	-7.190	-.24800	-.27800	-.25500	-.26900	-.30300	-.30100	-.29000	-.33600	-.30700	-.24800
.800	-5.030	-.23000	-.26000	-.23100	-.24600	-.27400	-.27800	-.26900	-.29400	-.27500	-.23300
.800	-2.870	-.22100	-.25300	-.22700	-.23800	-.27500	-.27800	-.25400	-.25000	-.25300	-.23200
.800	-.690	-.21800	-.24600	-.22500	-.22900	-.27700	-.28200	-.24200	-.24200	-.25100	-.23200
.800	1.470	-.21100	-.24300	-.22800	-.22800	-.28100	-.28400	-.23700	-.23800	-.24500	-.22800
.800	3.650	-.20800	-.23500	-.22100	-.22100	-.28600	-.28600	-.23700	-.24600	-.24200	-.22500
.800	5.860	-.21300	-.23500	-.22000	-.21500	-.29200	-.29700	-.23200	-.22800	-.24200	-.23100
.800	8.030	-.20000	-.22500	-.21200	-.20800	-.31500	-.32200	-.22900	-.21200	-.23300	-.22500
.800	10.100	-.18900	-.20600	-.19600	-.18700	-.32100	-.32300	-.22700	-.20400	-.22500	-.21700
	GRADIENT	.00212	.00263	.00069	.00240	-.00170	-.00120	.00258	.00074	.00179	.00115

MSFC TWT 692,OTS+OGIVE FAIRING(P05.2)- PLUME OFF (UA6006) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 23/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.900	-11.570	-.34700	-.36000	-.33900	-.35000	-.31800	-.33100	-.36400	-.37000	-.38800	-.35600
.900	-9.600	-.31700	-.34100	-.32100	-.32900	-.30900	-.32200	-.33400	-.35200	-.35600	-.31800
.900	-7.370	-.29800	-.32400	-.30500	-.31100	-.29400	-.29900	-.30800	-.33600	-.33000	-.28800
.900	-5.170	-.29700	-.32100	-.30200	-.30500	-.27800	-.28500	-.29600	-.30500	-.31700	-.28800
.900	-2.980	-.27200	-.30100	-.29100	-.28600	-.27100	-.28600	-.28800	-.27200	-.30500	-.26900
.900	-.780	-.25600	-.28400	-.27100	-.26800	-.27800	-.29000	-.28000	-.25100	-.30200	-.25700
.900	1.410	-.26100	-.28300	-.27400	-.26700	-.28100	-.30000	-.27900	-.25200	-.31000	-.25500
.900	3.600	-.25200	-.26300	-.26100	-.25000	-.28100	-.29300	-.27000	-.24400	-.30000	-.25200
.900	5.840	-.24500	-.25700	-.24900	-.24200	-.30100	-.30900	-.28900	-.25600	-.30600	-.27000
.900	8.040	-.24100	-.25400	-.24900	-.24200	-.32100	-.34000	-.28100	-.25700	-.30800	-.25800
.900	10.120	-.23100	-.24300	-.23600	-.22900	-.35000	-.36400	-.28500	-.26300	-.31000	-.26400
	GRADIENT	.00251	.00524	.00397	.00497	-.00151	-.00141	.00251	.00379	.00032	.00242

RUN NO. 22/ 0 RN/L = 6.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.098	-12.170	-.47700	-.48700	-.47000	-.48300	-.40000	-.43500	-.41400	-.42600	-.42900	-.43000
1.098	-10.110	-.45700	-.46500	-.45000	-.45800	-.41500	-.42900	-.40000	-.40800	-.40500	-.40200
1.098	-7.790	-.43300	-.44300	-.43000	-.43700	-.39900	-.42500	-.36600	-.37400	-.37800	-.37400
1.098	-5.490	-.43100	-.44400	-.42900	-.42600	-.38100	-.41600	-.34900	-.35100	-.36000	-.35200
1.098	-3.080	-.41800	-.43000	-.42100	-.41700	-.38700	-.42400	-.35200	-.34000	-.34900	-.33700
1.098	-.900	-.40000	-.41100	-.40400	-.40000	-.39200	-.42600	-.33600	-.33100	-.33800	-.32600
1.098	1.330	-.39200	-.40500	-.39800	-.39800	-.41600	-.45100	-.33300	-.33600	-.34600	-.33400
1.098	3.590	-.38500	-.39900	-.39200	-.39400	-.43400	-.46500	-.33000	-.32500	-.33600	-.32400
1.098	5.860	-.38600	-.39600	-.39000	-.39200	-.45900	-.49300	-.32700	-.31400	-.33700	-.32000
1.098	8.100	-.35700	-.36900	-.36200	-.36800	-.46700	-.50800	-.29300	-.27300	-.30300	-.27500
1.098	10.270	-.34300	-.35900	-.36300	-.37100	-.50400	-.54200	-.31700	-.30700	-.32800	-.30800
	GRADIENT	.00480	.00444	.00417	.00318	-.00743	-.00667	.00309	.00180	.00139	.00139

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME OFF (UA6006) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 21/ 0 RN/L = 6.81 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.250	-12.280	-.37700	-.35900	-.35200	-.37400	-.36100	-.38000	-.31700	-.32200	-.33500	-.32000
1.250	-10.170	-.36400	-.35300	-.34400	-.36200	-.36100	-.37500	-.31100	-.31000	-.31800	-.30600
1.250	-7.830	-.35900	-.35300	-.34400	-.36100	-.36000	-.37600	-.30200	-.30900	-.31600	-.30300
1.250	-5.530	-.35800	-.35800	-.34800	-.36600	-.35300	-.37500	-.28800	-.29200	-.30700	-.29000
1.250	-3.230	-.35300	-.35800	-.34600	-.36100	-.36200	-.38100	-.27900	-.28100	-.29900	-.28000
1.250	-.930	-.34100	-.34800	-.34100	-.34500	-.37400	-.39400	-.26800	-.27400	-.29000	-.27000
1.250	1.360	-.33700	-.34000	-.33600	-.33400	-.38100	-.40000	-.27000	-.26500	-.27800	-.25700
1.250	3.580	-.32800	-.33300	-.32800	-.32100	-.39000	-.41200	-.26000	-.24700	-.27000	-.24800
1.250	5.840	-.32100	-.33200	-.32500	-.32100	-.40800	-.43400	-.24800	-.23300	-.25600	-.23600
1.250	8.080	-.29700	-.31000	-.30700	-.29800	-.43000	-.46300	-.23200	-.21500	-.24600	-.21900
1.250	10.260	-.28700	-.30100	-.29400	-.28900	-.43800	-.46400	-.23100	-.21700	-.24700	-.22400
	GRADIENT	.00348	.00366	.00259	.00577	-.00401	-.00436	.00242	.00488	.00436	.00480

RUN NO. 39/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.463	-12.420	-.34200	-.33100	-.33600	-.34500	-.35200	-.37300	-.32500	-.31500	-.31400	-.31600
1.463	-10.250	-.34300	-.32900	-.33400	-.34700	-.35100	-.37000	-.31000	-.30100	-.30500	-.30300
1.463	-7.910	-.34900	-.33500	-.34000	-.35500	-.34800	-.36900	-.30000	-.30900	-.30200	-.30000
1.463	-5.590	-.34800	-.33400	-.33600	-.35600	-.34400	-.35700	-.28600	-.30800	-.29500	-.29300
1.463	-3.280	-.34500	-.33200	-.33200	-.34600	-.33200	-.35100	-.26800	-.28800	-.27700	-.27500
1.463	-1.000	-.34000	-.33100	-.33200	-.34100	-.34100	-.35900	-.26400	-.27500	-.26500	-.26400
1.463	1.320	-.33400	-.32900	-.33000	-.33500	-.35000	-.35900	-.25700	-.25200	-.24800	-.25000
1.463	3.550	-.33000	-.33000	-.32900	-.33000	-.35700	-.37100	-.25000	-.24700	-.24200	-.24200
1.463	5.820	-.33300	-.33600	-.33400	-.33500	-.36800	-.38800	-.25500	-.23700	-.23800	-.24300
1.463	8.040	-.32700	-.33400	-.33300	-.33300	-.38500	-.41000	-.25600	-.23600	-.23700	-.23800
1.463	10.240	-.32000	-.32600	-.32400	-.32100	-.38600	-.40400	-.24300	-.22500	-.22200	-.23600
	GRADIENT	.00224	.00035	.00048	.00237	-.00368	-.00262	.00267	.00641	.00536	.00496

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF (UA6007) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 25/ 0 RN/L = 6.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.800	-11.310	-.26000	-.28900	-.26700	-.27400	-.26600	-.28200	.02500	-.36900	-.30000	-.29800
.800	-9.350	-.25900	-.28600	-.25800	-.27000	-.25100	-.27600	-.26000	-.34100	-.27900	-.28600
.800	-7.180	-.25000	-.27600	-.25400	-.26300	-.24100	-.25800	-.23800	-.30200	-.25700	-.27300
.800	-5.020	-.23900	-.26100	-.23000	-.24600	-.23300	-.24900	-.22200	-.26300	-.23800	-.23500
.800	-2.860	-.22500	-.24900	-.22200	-.23200	-.24400	-.24000	-.22800	-.23600	-.23000	-.22400
.800	-.680	-.21000	-.23000	-.21400	-.21300	-.24300	-.23900	-.22300	-.22500	-.22700	-.21500
.800	1.480	-.20800	-.23000	-.21700	-.21600	-.25400	-.25600	-.22800	-.23300	-.23100	-.21700
.800	3.660	-.20400	-.21700	-.20600	-.20300	-.25400	-.24800	-.22200	-.23400	-.21900	-.21000
.800	5.860	-.20300	-.21100	-.20600	-.20300	-.26500	-.26100	-.22300	-.24300	-.21400	-.21900
.800	8.030	-.20500	-.21200	-.20700	-.20300	-.29300	-.29300	-.22500	-.23500	-.21500	-.22300
.800	10.090	-.19200	-.20000	-.19900	-.19600	-.31300	-.31000	-.22700	-.23600	-.22300	-.23200
	GRADIENT	.00299	.00442	.00207	.00387	-.00189	-.00188	.00060	-.00009	.00134	.00184

RUN NO. 26/ 0 RN/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.905	-11.590	-.32700	-.33400	-.33600	-.33200	-.24400	-.29700	-.30600	-.32300	-.33600	-.32500
.905	-9.620	-.31600	-.32400	-.31000	-.31200	-.24100	-.28400	-.28100	-.30400	-.30400	-.29700
.905	-7.380	-.30000	-.31500	-.30200	-.30200	-.23400	-.26400	-.26700	-.30500	-.29200	-.28100
.905	-5.170	-.28400	-.29800	-.28500	-.28500	-.20900	-.23500	-.25600	-.27400	-.27100	-.25800
.905	-2.960	-.26200	-.27600	-.27500	-.26600	-.21200	-.24000	-.24000	-.25800	-.26300	-.25700
.905	-.770	-.23500	-.24700	-.24300	-.23700	-.23000	-.22900	-.25500	-.23600	-.24800	-.23700
.905	1.420	-.24500	-.25100	-.24500	-.24100	-.24200	-.25100	-.26100	-.24300	-.26200	-.25300
.905	3.610	-.24400	-.24400	-.24300	-.23800	-.25400	-.25100	-.25500	-.24600	-.25700	-.24800
.905	5.840	-.23300	-.23100	-.23100	-.22900	-.28400	-.28900	-.28100	-.25400	-.27200	-.26800
.905	8.040	-.22400	-.22800	-.22600	-.22300	-.28900	-.30700	-.26300	-.24400	-.26600	-.25300
.905	10.160	-.22000	-.22000	-.22300	-.22000	-.31700	-.33100	-.26400	-.24800	-.26600	-.25700
	GRADIENT	.00201	.00420	.00429	.00365	-.00630	.00251	-.00233	.00132	.00018	.00050

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF (UA6007) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 27/ 0 RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.100	-12.240	-.48500	-.48700	-.47400	-.49000	-.40700	-.43300	-.44100	-.43600	-.43500	-.43000
1.100	-10.120	-.45800	-.47100	-.45200	-.46300	-.41600	-.44000	-.39200	-.39900	-.40400	-.39500
1.100	-7.810	-.43300	-.44900	-.43100	-.44200	-.41300	-.44400	-.37200	-.38400	-.39000	-.38400
1.100	-5.490	-.41600	-.43200	-.41500	-.42100	-.38900	-.42300	-.34700	-.36200	-.37100	-.35600
1.100	-3.200	-.40400	-.41400	-.40400	-.40000	-.39900	-.43100	-.34300	-.34800	-.36000	-.34600
1.100	-.900	-.39000	-.40000	-.39300	-.38500	-.40700	-.43500	-.33700	-.33900	-.35100	-.33400
1.100	1.320	-.38500	-.39500	-.38700	-.38600	-.42200	-.45900	-.34200	-.35200	-.36100	-.34800
1.100	3.570	-.36700	-.37400	-.36800	-.37300	-.43700	-.46700	-.32900	-.32700	-.33700	-.32500
1.100	5.860	-.37000	-.37900	-.37400	-.37800	-.45800	-.48900	-.33800	-.32300	-.33900	-.32600
1.100	8.100	-.34900	-.35700	-.35600	-.35800	-.49300	-.52800	-.31900	-.30700	-.32600	-.30600
1.100	10.250	-.33800	-.34800	-.34800	-.35100	-.51100	-.53600	-.32000	-.31400	-.33400	-.30700
	GRADIENT	.00515	.00555	.00506	.00356	-.00572	-.00585	.00165	.00222	.00262	.00218

RUN NO. 28/ 0 RN/L = 6.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.251	-12.290	-.36900	-.35300	-.34700	-.37000	-.33200	-.36500	-.32100	-.31500	-.31400	-.31300
1.251	-10.170	-.36400	-.35300	-.34400	-.36300	-.34600	-.36700	-.30800	-.31200	-.30400	-.30400
1.251	-7.830	-.35900	-.35300	-.34300	-.36000	-.34700	-.37100	-.30100	-.30400	-.30200	-.29900
1.251	-5.530	-.34900	-.35000	-.33200	-.35400	-.36000	-.38100	-.28900	-.29700	-.30100	-.29300
1.251	-3.220	-.34000	-.34500	-.32700	-.34500	-.37300	-.39400	-.28400	-.29500	-.30000	-.29000
1.251	-.920	-.32300	-.33000	-.32000	-.32400	-.38300	-.40400	-.27600	-.28300	-.28600	-.27700
1.251	1.350	-.31500	-.32200	-.31600	-.31600	-.38500	-.40900	-.27300	-.27600	-.27800	-.26800
1.251	3.570	-.30800	-.31500	-.31000	-.30400	-.39300	-.42200	-.26300	-.25600	-.26400	-.25800
1.251	5.850	-.30900	-.32000	-.31000	-.30700	-.41400	-.44400	-.25700	-.24500	-.25700	-.25000
1.251	8.090	-.27600	-.28800	-.28000	-.27400	-.43300	-.46200	-.24000	-.23600	-.25000	-.22100
1.251	10.250	-.26800	-.27400	-.27200	-.26300	-.43700	-.46200	-.23500	-.23200	-.24700	-.21000
	GRADIENT	.00460	.00433	.00243	.00579	-.00274	-.00393	.00291	.00547	.00512	.00464

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME OFF (UA6007) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 40/ 0 RN/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.459	-12.390	-.34300	-.32900	-.33300	-.34400	-.35200	-.37900	-.33000	-.32100	-.32400	-.32400
1.459	-10.230	-.34100	-.32600	-.33300	-.34600	-.35300	-.37400	-.31400	-.30800	-.30600	-.30800
1.459	-7.890	-.35000	-.33200	-.33800	-.35400	-.35200	-.37700	-.30600	-.31100	-.30400	-.30400
1.459	-5.570	-.34500	-.32600	-.32800	-.34800	-.34500	-.36000	-.28900	-.31500	-.29400	-.29200
1.459	-3.260	-.34400	-.32600	-.32800	-.34400	-.34000	-.36100	-.27900	-.30000	-.28200	-.28000
1.459	-.980	-.34100	-.32600	-.32900	-.34000	-.34200	-.36700	-.27600	-.28000	-.26800	-.26900
1.459	1.340	-.33300	-.32400	-.32600	-.33100	-.35000	-.36800	-.27200	-.27400	-.25600	-.25700
1.459	3.570	-.32400	-.32300	-.32400	-.32500	-.35500	-.38500	-.26800	-.25700	-.25500	-.25500
1.459	5.840	-.31900	-.32300	-.32200	-.31900	-.37500	-.39800	-.27100	-.25400	-.25400	-.25500
1.459	8.060	-.31400	-.32000	-.31900	-.31700	-.39000	-.41600	-.26500	-.25100	-.25100	-.24900
1.459	10.260	-.30400	-.30800	-.30600	-.30200	-.39200	-.41600	-.25200	-.24100	-.24200	-.24600
	GRADIENT	.00298	.00048	.00066	.00289	-.00232	-.00319	.00162	.00591	.00409	.00382

MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF (UA6008) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 32/ 0 RN/L = 6.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.801	-11.340	-.28200	-.29600	-.26300	-.29600	-.26700	-.28000	-.26200	-.33300	-.28900	-.25100
.801	-9.390	-.28000	-.29800	-.26600	-.29000	-.27000	-.27700	-.25700	-.34600	-.28000	-.25800
.801	-7.220	-.25200	-.27100	-.24500	-.26100	-.22100	-.23100	-.21700	-.27200	-.23400	-.22400
.801	-5.070	-.25300	-.27100	-.24000	-.25000	-.22300	-.24100	-.21700	-.24600	-.22400	-.19700
.801	-2.890	-.23300	-.25100	-.23000	-.23600	-.22500	-.24900	-.21000	-.21000	-.20300	-.19800
.801	-.710	-.21000	-.23800	-.21100	-.23000	-.23800	-.25000	-.19900	-.21900	-.20500	-.18900
.801	1.450	-.21200	-.23800	-.20500	-.22000	-.24600	-.25900	-.19700	-.20800	-.19800	-.18800
.801	3.630	-.21400	-.23300	-.21600	-.22100	-.25900	-.26300	-.20700	-.23400	-.20900	-.20400
.801	5.810	-.21200	-.22500	-.20600	-.21300	-.26500	-.27200	-.20500	-.21400	-.19400	-.19300
.801	7.980	-.19300	-.21200	-.19800	-.19800	-.28700	-.29700	-.20000	-.19300	-.19800	-.19400
.801	10.080	-.18400	-.20400	-.18600	-.18700	-.30500	-.31500	-.20800	-.19600	-.19800	-.20100
	GRADIENT	.00253	.00249	.00221	.00253	-.00507	-.00235	.00051	-.00281	-.00051	-.00078

MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF (UA6008) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 31/ 0 RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.901	-11.650	-.35100	-.35400	-.35200	-.34600	-.24800	-.29100	-.31600	-.31100	-.33600	-.31200
.901	-9.670	-.32200	-.32700	-.31400	-.31400	-.24100	-.27200	-.27300	-.29400	-.30200	-.27500
.901	-7.410	-.31000	-.32000	-.30200	-.30700	-.22800	-.25500	-.25800	-.30000	-.28600	-.25700
.901	-5.190	-.31000	-.31200	-.30700	-.30100	-.21100	-.23900	-.27100	-.25500	-.24900	-.24900
.901	-3.000	-.29900	-.29900	-.29300	-.29000	-.22100	-.25400	-.27000	-.23900	-.24100	-.24500
.901	-.800	-.28100	-.28100	-.27700	-.27200	-.23900	-.25100	-.26200	-.22800	-.23800	-.23800
.901	1.380	-.28100	-.27100	-.27500	-.27300	-.25600	-.25700	-.26100	-.23600	-.22500	-.23600
.901	3.580	-.27200	-.26800	-.27100	-.27100	-.26700	-.26800	-.26100	-.23600	-.23100	-.24100
.901	5.810	-.26500	-.26300	-.26100	-.25900	-.28800	-.30100	-.27900	-.24300	-.24100	-.25000
.901	8.020	-.26100	-.26400	-.26000	-.26400	-.30900	-.32500	-.27800	-.25200	-.23500	-.25200
.901	10.120	-.23500	-.24800	-.23900	-.23000	-.33100	-.34600	-.27400	-.24300	-.23300	-.23500
	GRADIENT	.00370	.00470	.00310	.00256	-.00707	-.00219	.00128	.00005	.00196	.00064

RUN NO. 30/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.100	-12.280	-.48200	-.49000	-.47400	-.49300	-.42000	-.43500	-.39900	-.40000	-.42200	-.41500
1.100	-10.170	-.47200	-.48900	-.46600	-.48200	-.41800	-.43600	-.38100	-.38200	-.40000	-.39100
1.100	-7.850	-.45500	-.47300	-.45100	-.45900	-.39800	-.42000	-.35400	-.35200	-.36400	-.35700
1.100	-5.530	-.44800	-.46600	-.44600	-.45400	-.39500	-.41900	-.34400	-.34800	-.35900	-.34900
1.100	-3.230	-.42700	-.44400	-.43300	-.43400	-.39400	-.41300	-.32600	-.32600	-.33500	-.32300
1.100	-.930	-.41700	-.42500	-.41900	-.41700	-.39700	-.41400	-.32000	-.30600	-.31000	-.31100
1.100	1.300	-.39100	-.40100	-.39600	-.39600	-.41600	-.44600	-.34700	-.31500	-.32300	-.32700
1.100	3.540	-.38200	-.38900	-.38400	-.38200	-.43100	-.46400	-.34100	-.31000	-.30900	-.31600
1.100	5.820	-.37400	-.38700	-.38300	-.38500	-.45400	-.48800	-.34300	-.30900	-.30600	-.31500
1.100	8.070	-.37000	-.37600	-.37900	-.38500	-.48400	-.52500	-.32200	-.29700	-.29300	-.29400
1.100	10.240	-.36600	-.37600	-.37400	-.38400	-.50400	-.54100	-.32000	-.29700	-.29500	-.29900
	GRADIENT	.00714	.00839	.00754	.00785	-.00576	-.00819	-.00318	.00175	.00290	.00023

MSFC TWT 692,OTS + LARGE FAIRING - PLUME OFF (UA6008) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 29/ 0 RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.251	-12.310	-.37400	-.36800	-.35700	-.38200	-.33900	-.36700	-.29600	-.29800	-.30900	-.30200
1.251	-10.190	-.38100	-.37400	-.36200	-.38200	-.35000	-.37000	-.28200	-.28100	-.29500	-.29500
1.251	-7.850	-.37500	-.37800	-.36300	-.38400	-.34800	-.37400	-.27900	-.27700	-.29300	-.29000
1.251	-5.550	-.37100	-.37500	-.36300	-.38100	-.35300	-.37300	-.27300	-.27000	-.28400	-.27900
1.251	-3.260	-.36200	-.37000	-.35900	-.37300	-.36700	-.37800	-.27100	-.26500	-.27700	-.26800
1.251	-.960	-.35100	-.35700	-.34800	-.35100	-.37000	-.38500	-.25300	-.25000	-.26300	-.25500
1.251	1.310	-.34000	-.34000	-.33300	-.33100	-.37600	-.38700	-.24600	-.23300	-.24300	-.24100
1.251	3.550	-.33100	-.33500	-.32600	-.32500	-.39100	-.40700	-.25500	-.23000	-.23500	-.23700
1.251	5.810	-.31900	-.32500	-.31600	-.31500	-.41200	-.43600	-.25200	-.22100	-.22400	-.23100
1.251	8.080	-.29200	-.30600	-.29800	-.29600	-.42600	-.45600	-.23300	-.21300	-.20800	-.20800
1.251	10.240	-.28400	-.29900	-.29500	-.29200	-.42600	-.45500	-.22000	-.19900	-.20300	-.21000
	GRADIENT	.00458	.00538	.00502	.00723	-.00343	-.00391	.00244	.00538	.00643	.00472

RUN NO. 33/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.459	-12.370	-.35400	-.35100	-.35900	-.36300	-.35600	-.37800	-.32200	-.31800	-.32500	-.32300
1.459	-10.240	-.35100	-.34800	-.35300	-.36100	-.35200	-.37400	-.31000	-.30700	-.31500	-.30800
1.459	-7.910	-.35600	-.35100	-.35400	-.36500	-.34300	-.36800	-.29900	-.29700	-.30500	-.30300
1.459	-5.560	-.35300	-.34900	-.35000	-.36500	-.33500	-.35200	-.28600	-.29100	-.29300	-.29000
1.459	-3.260	-.35200	-.35300	-.34900	-.36600	-.33400	-.35400	-.27700	-.27600	-.28900	-.28400
1.459	-.980	-.34800	-.34900	-.34500	-.35500	-.33500	-.35900	-.26400	-.26300	-.27100	-.26700
1.459	1.310	-.34200	-.34400	-.34100	-.34800	-.34400	-.36500	-.25200	-.25100	-.25600	-.24800
1.459	3.560	-.33800	-.34200	-.34000	-.34200	-.35300	-.37200	-.24400	-.23800	-.24800	-.24000
1.459	5.830	-.33800	-.34500	-.34200	-.34200	-.36500	-.38900	-.24400	-.23400	-.24200	-.23600
1.459	8.070	-.33500	-.34300	-.34100	-.34000	-.38800	-.41300	-.25200	-.23800	-.24400	-.24100
1.459	10.250	-.32300	-.33100	-.33000	-.32600	-.38500	-.40600	-.24500	-.22300	-.23000	-.23300
	GRADIENT	.00211	.00167	.00136	.00347	-.00290	-.00264	.00488	.00554	.00607	.00664

MSFC TWT 692,OTS+WING FAIRING(POS.1) - PLUME OFF (UA6009) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 85/ 0 RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.251	-12.380	-.38400	-.36100	-.35800	-.37200	-.37500	-.37700	-.28800	-.27900	-.28200	-.28700
1.251	-10.200	-.36700	-.34200	-.33900	-.34600	-.37600	-.38200	-.27800	-.26500	-.26600	-.26500
1.251	-7.870	-.35600	-.33200	-.33100	-.33200	-.38300	-.38200	-.27200	-.26800	-.26700	-.26900
1.251	-5.550	-.33500	-.32300	-.31700	-.31300	-.38000	-.38400	-.25900	-.26200	-.26100	-.26200
1.251	-3.260	-.31600	-.32500	-.31700	-.30900	-.38700	-.41000	-.26400	-.27100	-.27200	-.26600
1.251	-.960	-.30000	-.31600	-.30900	-.29700	-.38500	-.40900	-.25300	-.25700	-.26300	-.25500
1.251	1.310	-.29100	-.30600	-.30100	-.28800	-.38500	-.40600	-.25000	-.25500	-.25500	-.24900
1.251	3.540	-.29500	-.31900	-.31300	-.29500	-.39200	-.41900	-.23900	-.24200	-.24800	-.23400
1.251	5.820	-.30200	-.33300	-.33500	-.30600	-.40600	-.43000	-.22300	-.22700	-.23700	-.21600
1.251	8.060	-.30900	-.34700	-.34900	-.32200	-.41900	-.45200	-.21700	-.22300	-.23300	-.18900
1.251	10.250	-.29800	-.32700	-.33800	-.31000	-.42400	-.45700	-.21800	-.21900	-.23700	-.18900
	GRADIENT	.00319	.00125	.00090	.00226	-.00066	-.00105	.00344	.00393	.00353	.00450

MSFC TWT 692,OTS+WING FAIRING(POS.2) - PLUME OFF (UA6010) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RUN NO. 86/ 0 RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.250	-12.370	-.37900	-.36800	-.36500	-.36900	-.36800	-.37100	-.29100	-.28200	-.28500	-.29000
1.250	-10.200	-.35800	-.34700	-.34400	-.35100	-.38100	-.38700	-.28100	-.26900	-.27100	-.27200
1.250	-7.870	-.34400	-.33300	-.32800	-.33100	-.37700	-.38300	-.27800	-.27200	-.27000	-.27000
1.250	-5.550	-.32700	-.32700	-.32200	-.32100	-.38900	-.39500	-.27500	-.27700	-.27500	-.27200
1.250	-3.260	-.30800	-.32000	-.31200	-.30600	-.39000	-.41100	-.27200	-.27400	-.27500	-.27000
1.250	-.940	-.28600	-.29800	-.29300	-.28500	-.39400	-.41400	-.26100	-.26400	-.26900	-.26200
1.250	1.330	-.28100	-.29200	-.28600	-.27700	-.39400	-.41200	-.26100	-.26300	-.26300	-.26000
1.250	3.550	-.28300	-.29400	-.28900	-.27700	-.40100	-.42300	-.24900	-.25000	-.25600	-.24100
1.250	5.800	-.29200	-.31600	-.31300	-.29200	-.42100	-.44700	-.24200	-.24300	-.25000	-.23300
1.250	8.040	-.29200	-.31500	-.32100	-.29400	-.42900	-.46100	-.23500	-.23600	-.24600	-.20200
1.250	10.240	-.29700	-.31400	-.32200	-.29900	-.43700	-.46800	-.23400	-.23600	-.25600	-.19900
	GRADIENT	.00355	.00372	.00337	.00420	-.00145	-.00149	.00304	.00321	.00277	.00391

MSFC TWT 692, O T S (BASELINE) - PLUME ON (UA6011) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 67/ O RN/L = 6.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.801	-11.260	-.21600	-.24600	-.23600	-.22300	-.17000	-.18200	-.21900	-.28100	-.23700	-.19200
.801	-9.290	-.21000	-.24500	-.22900	-.21200	-.15600	-.16800	-.20700	-.27600	-.21500	-.17400
.801	-7.110	-.21100	-.24600	-.24600	-.21400	-.13600	-.14400	-.17800	-.22400	-.19600	-.16500
.801	-4.960	-.18700	-.22200	-.21800	-.18900	-.12300	-.13200	-.16600	-.20100	-.16400	-.13900
.801	-2.800	-.16900	-.20400	-.21300	-.19000	-.14900	-.14500	-.18000	-.19700	-.17900	-.16300
.801	-.640	-.15800	-.19200	-.19500	-.16400	-.13200	-.12200	-.15000	-.14700	-.14400	-.13700
.801	1.540	-.14800	-.17600	-.18200	-.15700	-.14600	-.12500	-.15600	-.14100	-.14200	-.13900
.801	3.720	-.14800	-.17500	-.17500	-.15100	-.15200	-.12900	-.15700	-.16500	-.14900	-.14600
.801	5.930	-.14500	-.17800	-.17000	-.15100	-.16500	-.14200	-.17200	-.16500	-.15700	-.15500
.801	8.080	-.12600	-.15800	-.14900	-.13100	-.17400	-.15600	-.16900	-.16000	-.14100	-.14000
.801	10.120	-.12600	-.15200	-.14000	-.12300	-.19300	-.17200	-.16800	-.15700	-.15300	-.14900
	GRADIENT	.00456	.00562	.00539	.00502	-.00254	.00120	.00193	.00589	.00308	.00046

RUN NO. 68/ O RN/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.901	-11.540	-.29800	-.30100	-.30900	-.28700	-.11900	-.15100	-.19000	-.25000	-.23900	-.23800
.901	-9.540	-.26800	-.27700	-.28700	-.26400	-.12000	-.13600	-.18900	-.22000	-.22500	-.19100
.901	-7.330	-.23300	-.25200	-.27700	-.24300	-.10100	-.12200	-.17900	-.22600	-.20200	-.17600
.901	-5.120	-.24800	-.25700	-.27500	-.23900	-.11500	-.13800	-.20800	-.22600	-.20300	-.18000
.901	-2.920	-.20800	-.22700	-.23800	-.21200	-.11300	-.13000	-.18800	-.19600	-.19600	-.18400
.901	-.720	-.19000	-.20200	-.20400	-.18500	-.12800	-.12600	-.19200	-.17500	-.18400	-.17100
.901	1.480	-.17900	-.19400	-.19500	-.17200	-.13400	-.13200	-.19800	-.17500	-.18300	-.17300
.901	3.680	-.16900	-.18300	-.18400	-.16700	-.12800	-.12300	-.18500	-.16700	-.16900	-.16700
.901	5.900	-.16100	-.18700	-.17800	-.15800	-.16500	-.14500	-.20400	-.18000	-.19300	-.18900
.901	8.090	-.15400	-.17200	-.16700	-.15400	-.16100	-.15700	-.18900	-.16000	-.17800	-.17200
.901	10.160	-.15100	-.17600	-.16300	-.15100	-.20400	-.18400	-.18600	-.16400	-.17800	-.16700
	GRADIENT	.00582	.00636	.00777	.00673	-.00232	.00068	.00014	.00395	.00373	.00223

MSFC TWT 692, O T S (BASELINE) - PLUME ON (UA6011) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 50/ 0 RN/L = 6.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.099	-12.140	-.27300	-.24300	-.24000	-.23900	-.13300	-.15800	-.21500	-.23900	-.23500	-.24100
1.099	-10.010	-.23700	-.22300	-.22300	-.21500	-.13400	-.14000	-.20800	-.21800	-.20700	-.21700
1.099	-7.710	-.22100	-.21800	-.21800	-.20700	-.12700	-.14400	-.19500	-.19700	-.19800	-.19800
1.099	-5.370	-.19700	-.19700	-.19500	-.18300	-.09600	-.11800	-.17200	-.17700	-.17700	-.18200
1.099	-3.090	-.18800	-.19300	-.19000	-.17800	-.10600	-.12300	-.16900	-.18000	-.17600	-.17700
1.099	-.810	-.17100	-.18000	-.18000	-.17000	-.11900	-.13700	-.17700	-.19800	-.17900	-.18000
1.099	1.470	-.15200	-.16700	-.16900	-.15800	-.12900	-.14400	-.18900	-.19300	-.18300	-.18200
1.099	3.710	-.14600	-.15900	-.15400	-.14600	-.14900	-.16000	-.19700	-.20400	-.19300	-.19800
1.099	6.000	-.12300	-.13700	-.13200	-.12300	-.16200	-.17000	-.17200	-.18200	-.18300	-.18500
1.099	8.210	-.10600	-.11800	-.11100	-.10200	-.19000	-.18700	-.16100	-.14500	-.16100	-.15100
1.099	10.410	-.10300	-.10500	-.10400	-.09700	-.21100	-.20300	-.17400	-.14900	-.15700	-.15400
	GRADIENT	.00640	.00507	.00524	.00476	-.00612	-.00520	-.00423	-.00295	-.00242	-.00286

RUN NO. 49/ 0 RN/L = 6.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.249	-12.230	-.17000	-.14000	-.13600	-.14200	-.04600	-.07400	-.12700	-.14500	-.14300	-.14500
1.249	-10.080	-.13900	-.11500	-.11100	-.11000	-.03500	-.05200	-.09500	-.09700	-.10600	-.10300
1.249	-7.740	-.12900	-.12000	-.11200	-.10800	-.02600	-.05200	-.10100	-.09800	-.10700	-.10500
1.249	-5.400	-.12200	-.12000	-.10900	-.09900	-.02600	-.04200	-.10700	-.09900	-.10500	-.10000
1.249	-3.120	-.11200	-.11800	-.10900	-.09900	-.02100	-.03200	-.10500	-.09900	-.10600	-.10100
1.249	-.820	-.09300	-.10900	-.10100	-.08900	-.02600	-.03700	-.09900	-.11100	-.10200	-.09700
1.249	1.470	-.08400	-.10200	-.09400	-.08300	-.01900	-.03200	-.10300	-.11400	-.11200	-.10200
1.249	3.700	-.07100	-.09000	-.08400	-.07500	-.04000	-.04700	-.09900	-.11200	-.10400	-.09700
1.249	6.000	-.06800	-.08700	-.07600	-.06600	-.07300	-.07700	-.09900	-.09700	-.10300	-.10100
1.249	8.200	-.05400	-.07100	-.05400	-.05100	-.08500	-.07500	-.07900	-.07300	-.08300	-.06900
1.249	10.420	-.04500	-.05400	-.04500	-.03900	-.09000	-.08500	-.06400	-.05800	-.06700	-.05000
	GRADIENT	.00580	.00400	.00360	.00343	-.00218	-.00175	.00061	-.00186	-.00018	.00031

MSFC TWT 692, O T S (BASELINE) - PLUME ON (UA6011) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 48/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.460	-12.230	-.16300	-.14600	-.14700	-.14400	-.03900	-.04200	-.12200	-.12000	-.12200	-.12600
1.460	-10.090	-.13400	-.12000	-.11700	-.11100	-.03500	-.03200	-.11700	-.09500	-.09200	-.10000
1.460	-7.750	-.12400	-.11400	-.11500	-.10800	-.02100	-.00300	-.08700	-.07500	-.07700	-.08000
1.460	-5.430	-.11800	-.11500	-.11400	-.10500	.01100	.01200	-.08300	-.07000	-.07000	-.07600
1.460	-3.120	-.10600	-.10900	-.10800	-.09800	.03900	.03600	-.07200	-.06500	-.06300	-.06800
1.460	-.850	-.09300	-.09900	-.09500	-.08800	.05700	.05000	-.08100	-.07200	-.07500	-.07800
1.460	1.450	-.08600	-.09300	-.09300	-.08700	.07400	.05400	-.09500	-.09200	-.07900	-.08600
1.460	3.710	-.08700	-.09600	-.09300	-.08800	.06300	.03600	-.10400	-.10800	-.09800	-.10100
1.460	5.960	-.06800	-.07700	-.07400	-.06600	.04600	.01200	-.11600	-.10000	-.10900	-.10100
1.460	8.230	-.05300	-.06300	-.05600	-.04900	.02300	-.00300	-.10900	-.10400	-.10800	-.09700
1.460	10.420	-.04600	-.05400	-.04900	-.04200	.06300	.01500	-.09500	-.08700	-.08400	-.08400
	GRADIENT	.00281	.00198	.00206	.00136	.00391	.00018	-.00483	-.00654	-.00478	-.00469

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON (UA6012) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 70/ 0 RN/L = 6.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.802	-11.280	-.21700	-.23600	-.22200	-.23500	-.16600	-.18300	-.22500	-.29300	-.24300	-.19400
.802	-9.330	-.20800	-.22800	-.23600	-.20900	-.13100	-.15500	-.18900	-.24400	-.20800	-.15400
.802	-7.130	-.20000	-.22000	-.23400	-.19000	-.10900	-.12500	-.18700	-.23100	-.20100	-.16100
.802	-4.960	-.18200	-.19800	-.22500	-.18800	-.12500	-.13700	-.18300	-.21500	-.18200	-.15700
.802	-2.810	-.16700	-.19700	-.22000	-.17300	-.11500	-.11900	-.15700	-.16700	-.15300	-.13100
.802	-.650	-.15800	-.18500	-.20300	-.17100	-.12200	-.12000	-.15500	-.15900	-.15800	-.14300
.802	1.510	-.14800	-.17500	-.17300	-.15800	-.13100	-.12100	-.15400	-.15200	-.15200	-.13500
.802	3.700	-.13400	-.16700	-.16200	-.14600	-.13000	-.11100	-.14400	-.16100	-.14500	-.13100
.802	5.900	-.13700	-.17200	-.16100	-.14200	-.14100	-.13600	-.13700	-.17000	-.15400	-.14300
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
.802	10.120	-.11400	-.15000	-.13400	-.11700	-.18000	-.16800	-.12900	-.15500	-.14900	-.14600
	GRADIENT	.00531	.00388	.00800	.00458	-.00120	.00231	.00374	.00567	.00346	.00222

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON (UA6012) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 69/ 0 RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.901	-11.560	-.27700	-.28600	-.28700	-.27200	-.10900	-.14200	-.20500	-.21900	-.23400	-.21400
.901	-9.560	-.26300	-.27300	-.28100	-.25400	-.11300	-.13400	-.19600	-.20300	-.21500	-.18100
.901	-7.320	-.23800	-.25800	-.26500	-.24300	-.11300	-.13500	-.20700	-.22700	-.19900	-.18100
.901	-5.090	-.22000	-.24300	-.27100	-.23300	-.10200	-.11300	-.19100	-.17700	-.17600	-.15300
.901	-2.920	-.21200	-.23900	-.24000	-.21100	-.10500	-.11000	-.19900	-.20000	-.18600	-.18000
.901	-.720	-.19200	-.20700	-.20700	-.18700	-.11200	-.11400	-.19400	-.17000	-.17800	-.16700
.901	1.480	-.18300	-.20500	-.20300	-.18200	-.11600	-.12100	-.19100	-.16900	-.18200	-.17200
.901	3.670	-.18200	-.20000	-.20000	-.18400	-.12200	-.12000	-.18600	-.17000	-.17300	-.17500
.901	5.900	-.17300	-.20300	-.19000	-.17700	-.16800	-.16200	-.21200	-.19300	-.19800	-.19300
.901	8.090	-.15900	-.18800	-.17800	-.16300	-.15700	-.15100	-.18200	-.15300	-.17700	-.16200
.901	10.180	-.14900	-.17600	-.16700	-.14800	-.18700	-.17100	-.17400	-.15600	-.16900	-.16500
	GRADIENT	.00451	.00542	.00565	.00392	-.00250	-.00168	.00191	.00414	.00159	.00046

RUN NO. 51/ 0 RN/L = 6.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.099	-12.150	-.27100	-.24500	-.23700	-.24800	-.11800	-.14000	-.20400	-.22000	-.23400	-.23000
1.099	-10.020	-.24300	-.23600	-.22400	-.22300	-.10400	-.12800	-.17600	-.19900	-.21400	-.20600
1.099	-7.740	-.21700	-.22300	-.20900	-.20200	-.10300	-.12800	-.17100	-.18100	-.19800	-.19300
1.099	-5.410	-.20800	-.22000	-.20100	-.18900	-.09700	-.12300	-.16600	-.17600	-.19400	-.19200
1.099	-3.120	-.17800	-.19100	-.17700	-.17000	-.09800	-.12600	-.16300	-.16800	-.17600	-.17100
1.099	-.820	-.16900	-.17800	-.16900	-.15900	-.09700	-.12600	-.16500	-.19100	-.18000	-.17100
1.099	1.440	-.14900	-.16200	-.15200	-.14400	-.10500	-.12600	-.16100	-.17200	-.18200	-.17700
1.099	3.680	-.14800	-.16000	-.14600	-.14400	-.14000	-.15000	-.16800	-.17200	-.18900	-.17700
1.099	5.970	-.13200	-.14600	-.13500	-.13000	-.16600	-.16800	-.16500	-.16600	-.18500	-.16800
1.099	8.190	-.11500	-.13100	-.11700	-.11300	-.18400	-.19300	-.13700	-.14500	-.15700	-.14000
1.099	10.380	-.11600	-.12100	-.11600	-.11200	-.18600	-.20500	-.15000	-.15000	-.16300	-.15300
	GRADIENT	.00486	.00482	.00485	.00411	-.00589	-.00316	-.00048	.00029	-.00181	-.00106

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.1)- PLUME ON (UA6012) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 52/ 0 RN/L = 6.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.250	-12.220	-.17500	-.15000	-.14900	-.16100	-.03600	-.05100	-.11300	-.11900	-.13300	-.13100
1.250	-10.080	-.15300	-.14600	-.13400	-.13900	-.01600	-.03600	-.09000	-.10300	-.11700	-.11200
1.250	-7.760	-.13900	-.14600	-.13100	-.12800	-.02300	-.04000	-.09400	-.10500	-.11900	-.11500
1.250	-5.410	-.12600	-.14000	-.12500	-.11600	-.01500	-.03000	-.09300	-.09800	-.11300	-.11100
1.250	-3.130	-.11700	-.12800	-.11400	-.10700	-.01500	-.03200	-.09800	-.10100	-.10800	-.10300
1.250	-.830	-.11000	-.12600	-.11600	-.10700	-.03000	-.04400	-.10500	-.11400	-.11400	-.11000
1.250	1.440	-.10100	-.11600	-.10800	-.09800	-.03700	-.04700	-.10400	-.12500	-.11700	-.11000
1.250	3.680	-.09000	-.10400	-.09300	-.08600	-.06800	-.06600	-.10400	-.10900	-.12100	-.11000
1.250	5.960	-.07600	-.09300	-.07900	-.07400	-.09700	-.08900	-.10100	-.10200	-.11800	-.10100
1.250	8.190	-.06000	-.07300	-.05700	-.05500	-.09900	-.10200	-.07600	-.08700	-.09700	-.07600
1.250	10.400	-.05000	-.05900	-.04300	-.04500	-.09300	-.10300	-.07100	-.08200	-.08900	-.07100
	GRADIENT	.00396	.00361	.00312	.00316	-.00730	-.00462	-.00075	-.00156	-.00185	-.00093

RUN NO. 44/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.459	-12.270	-.16700	-.15400	-.15300	-.15200	-.02600	-.04300	-.11000	-.10700	-.10800	-.11800
1.459	-10.020	-.13800	-.13400	-.12900	-.12500	-.01500	-.03300	-.07400	-.07400	-.08300	-.08000
1.459	-7.780	-.12700	-.13600	-.12300	-.11400	-.00800	-.01600	-.05600	-.06200	-.07100	-.06000
1.459	-5.460	-.11500	-.12300	-.10500	-.10000	.02000	.01000	-.06100	-.06200	-.08200	-.07100
1.459	-3.160	-.10900	-.11000	-.09700	-.09100	.04300	.03600	-.07900	-.07900	-.08800	-.08200
1.459	-.870	-.09000	-.09700	-.08400	-.07900	.06300	.05200	-.07500	-.07500	-.08200	-.07500
1.459	1.430	-.09400	-.10300	-.09200	-.08400	.07300	.05100	-.08200	-.08000	-.08300	-.08300
1.459	3.690	-.08600	-.09600	-.08700	-.07700	.07000	.03700	-.08200	-.09600	-.08800	-.08800
1.459	5.940	-.07600	-.09000	-.08200	-.07200	.03700	.01200	-.08500	-.08500	-.09900	-.09100
1.459	8.200	-.05900	-.07500	-.06600	-.05600	.00300	-.01300	-.07400	-.08200	-.09000	-.08000
1.459	10.400	-.06400	-.07100	-.05800	-.05400	.06200	.01400	-.08200	-.09000	-.09400	-.08300
	GRADIENT	.00284	.00157	.00096	.00162	.00399	.00010	-.00070	-.00244	-.00004	-.00114

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON (UA6013) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 71/ 0 RN/L = 6.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.803	-11.240	-.22500	-.24000	-.23400	-.22400	-.15600	-.17400	-.22500	-.28100	-.24000	-.18700
.803	-9.310	-.19400	-.21400	-.21500	-.19900	-.13200	-.14700	-.19700	-.23100	-.19500	-.16600
.803	-7.130	-.20200	-.22700	-.24200	-.20700	-.11800	-.13200	-.17800	-.24100	-.19700	-.15900
.803	-4.970	-.16900	-.19100	-.20200	-.16900	-.10600	-.12100	-.17200	-.19600	-.16600	-.13600
.803	-2.810	-.17000	-.19200	-.20400	-.17000	-.11300	-.11200	-.16200	-.16600	-.15400	-.13500
.803	-.650	-.16300	-.18800	-.19300	-.16800	-.12900	-.12000	-.15800	-.16300	-.15500	-.13800
.803	1.510	-.13500	-.16800	-.17000	-.15200	-.12800	-.11700	-.15000	-.14600	-.14400	-.13200
.803	3.700	-.14400	-.17100	-.16800	-.14900	-.13900	-.11800	-.15600	-.17000	-.15400	-.14600
.803	5.910	-.13500	-.16000	-.15500	-.13900	-.13900	-.12900	-.14000	-.18300	-.14700	-.14400
.803	8.070	-.13400	-.16400	-.15600	-.14200	-.16500	-.16000	-.14900	-.17300	-.15200	-.14700
.803	10.140	-.11200	-.14700	-.13100	-.11900	-.18000	-.16500	-.13600	-.15600	-.14900	-.14700
	GRADIENT	.00392	.00295	.00471	.00268	-.00374	.00005	.00203	.00331	.00157	-.00079

RUN NO. 72/ 0 RN/L = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.903	-11.570	-.28200	-.28900	-.29000	-.27100	-.09800	-.14300	-.18700	-.22000	-.23500	-.21700
.903	-9.570	-.25600	-.25500	-.25700	-.23800	-.10800	-.12800	-.18700	-.19500	-.21800	-.17500
.903	-7.310	-.24000	-.25800	-.28000	-.25600	-.11800	-.13600	-.22200	-.22400	-.21300	-.18400
.903	-5.100	-.22900	-.25300	-.26700	-.23000	-.09400	-.11200	-.20100	-.21300	-.20400	-.18100
.903	-2.900	-.20900	-.23400	-.23000	-.20600	-.10100	-.10900	-.18600	-.17800	-.17500	-.17200
.903	-.730	-.18600	-.20300	-.19600	-.18000	-.11000	-.10900	-.19200	-.17300	-.18200	-.17100
.903	1.480	-.18200	-.19100	-.19300	-.17200	-.11500	-.11300	-.19500	-.17100	-.18000	-.17700
.903	3.650	-.17900	-.19800	-.19600	-.18100	-.12200	-.11900	-.18900	-.17300	-.17100	-.17300
.903	5.890	-.16400	-.18900	-.17600	-.16400	-.15300	-.14900	-.20000	-.18300	-.19200	-.19000
.903	8.070	-.16300	-.18500	-.17800	-.16400	-.14300	-.15600	-.19300	-.16900	-.18400	-.17100
.903	10.180	-.14000	-.16600	-.15600	-.14200	-.17900	-.16400	-.18500	-.16400	-.17000	-.15900
	GRADIENT	.00430	.00549	.00480	.00380	-.00311	-.00156	-.00055	.00078	.00064	-.00041

MSFC TWT 692.OTS + 10 DEG.RAMP(POS.2)- PLUME ON (UA6013) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 54/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.100	-12.170	-.27500	-.24600	-.24300	-.25000	-.11700	-.14500	-.20400	-.22500	-.22700	-.23900
1.100	-10.000	-.24200	-.22500	-.22300	-.22000	-.10200	-.13400	-.16900	-.19900	-.20800	-.21600
1.100	-7.700	-.22700	-.21900	-.21600	-.20400	-.10000	-.13100	-.17100	-.18700	-.18000	-.18800
1.100	-5.380	-.20500	-.21400	-.20800	-.19300	-.09700	-.12100	-.16400	-.17100	-.17000	-.17000
1.100	-3.070	-.17900	-.18900	-.18000	-.16900	-.08800	-.11300	-.16100	-.16600	-.16700	-.16600
1.100	-.800	-.17100	-.18000	-.17800	-.17000	-.09500	-.11700	-.16300	-.18200	-.16600	-.16700
1.100	1.460	-.14700	-.15900	-.15800	-.14600	-.10100	-.12900	-.16700	-.18500	-.18200	-.18100
1.100	3.700	-.14200	-.15300	-.15100	-.14400	-.12500	-.14500	-.16900	-.18100	-.17800	-.18300
1.100	5.950	-.12400	-.14300	-.14000	-.12900	-.14800	-.16400	-.16500	-.17000	-.17600	-.18300
1.100	8.210	-.10900	-.12700	-.12700	-.12200	-.18200	-.19500	-.15600	-.15600	-.16600	-.16300
1.100	10.390	-.09500	-.09900	-.10100	-.09300	-.16300	-.17800	-.15100	-.14200	-.14700	-.14600
	GRADIENT	.00598	.00572	.00474	.00439	-.00518	-.00478	-.00124	-.00213	-.00217	-.00288

RUN NO. 53/ 0 RN/L = 6.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.251	-12.220	-.18000	-.15400	-.15000	-.15500	-.02500	-.05000	-.10000	-.12300	-.12800	-.12800
1.251	-10.030	-.15700	-.14600	-.14300	-.13900	-.01600	-.03800	-.09500	-.11400	-.11600	-.12000
1.251	-7.740	-.14900	-.14300	-.14000	-.13100	-.01600	-.03800	-.09700	-.10500	-.10900	-.11200
1.251	-5.390	-.13700	-.14500	-.14200	-.12900	-.02800	-.03600	-.10500	-.10700	-.11100	-.11300
1.251	-3.100	-.13200	-.14300	-.14000	-.12700	-.02300	-.03500	-.11000	-.11000	-.11200	-.11300
1.251	-.800	-.11300	-.12800	-.12300	-.10900	-.03200	-.04200	-.10900	-.12100	-.10800	-.10700
1.251	1.490	-.10300	-.11900	-.11200	-.10100	-.03500	-.04900	-.11400	-.13000	-.11600	-.11800
1.251	3.710	-.09100	-.11100	-.10200	-.08700	-.06200	-.06500	-.11300	-.11600	-.11500	-.12000
1.251	5.930	-.07600	-.09300	-.08600	-.07500	-.08200	-.08900	-.10400	-.10100	-.10800	-.11200
1.251	8.190	-.05400	-.07500	-.06200	-.05200	-.09300	-.09700	-.08800	-.08700	-.08800	-.08200
1.251	10.390	-.05400	-.06600	-.05700	-.04900	-.09700	-.09200	-.07800	-.07600	-.07800	-.07500
	GRADIENT	.00586	.00463	.00551	.00563	-.00526	-.00426	-.00062	-.00121	-.00075	-.00141

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.2)- PLUME ON (UA6013) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 45/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.459	-12.290	-.15900	-.14800	-.14600	-.14700	-.02600	-.03800	-.10800	-.11500	-.11300	-.12500
1.459	-10.120	-.14000	-.13500	-.13000	-.12500	-.01900	-.03500	-.07700	-.07400	-.08700	-.08000
1.459	-7.790	-.12300	-.13200	-.11800	-.10600	-.00100	-.01200	-.05200	-.06100	-.06900	-.06200
1.459	-5.480	-.11400	-.12200	-.10800	-.10100	.01500	.01200	-.06200	-.06100	-.08000	-.06900
1.459	-3.150	-.11100	-.11200	-.09700	-.09400	.04200	.04000	-.08200	-.08000	-.09100	-.08400
1.459	-.870	-.09300	-.09900	-.08600	-.08200	.05800	.04800	-.08000	-.07700	-.08700	-.08300
1.459	1.410	-.09300	-.10200	-.09200	-.08400	.07000	.05300	-.08800	-.08300	-.08300	-.08600
1.459	3.670	-.08300	-.09200	-.08500	-.07700	.06900	.03800	-.08600	-.10400	-.09200	-.09200
1.459	5.930	-.07200	-.08200	-.07500	-.06700	.03800	.01500	-.09200	-.09000	-.10200	-.09900
1.459	8.200	-.05400	-.07000	-.05900	-.05400	.00200	-.01300	-.08500	-.09400	-.09700	-.08800
1.459	10.380	-.06300	-.07000	-.05800	-.05300	.05000	.01500	-.08900	-.09600	-.09500	-.09200
	GRADIENT	.00369	.00251	.00132	.00215	.00409	-.00004	-.00088	-.00343	.00005	-.00119

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON (UA6014) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 74/ 0 RN/L = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.801	-11.270	-.20400	-.22300	-.20500	-.22000	-.13900	-.16900	-.21600	-.28200	-.24200	-.17700
.801	-9.320	-.20000	-.22500	-.21700	-.21300	-.14100	-.16200	-.19900	-.27200	-.22100	-.17900
.801	-7.150	-.19300	-.21300	-.22300	-.19200	-.10900	-.13500	-.18800	-.24400	-.20000	-.15800
.801	-4.990	-.17800	-.20200	-.21300	-.18100	-.11100	-.13000	-.17900	-.19900	-.17800	-.15600
.801	-2.830	-.16300	-.18900	-.21500	-.17000	-.10900	-.11500	-.15200	-.17100	-.15400	-.13000
.801	-.670	-.15600	-.18300	-.18800	-.16100	-.11800	-.12000	-.15100	-.15800	-.15600	-.13500
.801	1.510	-.13700	-.16300	-.16600	-.14600	-.12600	-.12000	-.14600	-.15000	-.14700	-.13700
.801	3.700	-.14000	-.16600	-.16300	-.14600	-.13500	-.12100	-.14800	-.16800	-.15200	-.13900
.801	5.890	-.13100	-.15800	-.15300	-.13500	-.13500	-.13100	-.13500	-.17600	-.14800	-.13900
.801	8.030	-.13200	-.16300	-.15400	-.13500	-.15700	-.15900	-.13300	-.16600	-.14300	-.14100
.801	10.120	-.11300	-.14100	-.13000	-.11600	-.17900	-.16500	-.14300	-.15400	-.14400	-.13900
	GRADIENT	.00469	.00451	.00686	.00433	-.00299	.00060	.00312	.00381	.00271	.00124

MSFC TWT 692,OTS + 10 DEG.RAMP(POS.3)- PLUME ON (UA6014) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 73/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.904	-11.500	-.27500	-.28700	-.29300	-.28200	-.10600	-.15600	-.24200	-.23300	-.25200	-.23900
.904	-9.540	-.22300	-.25500	-.24500	-.23800	-.08800	-.12200	-.18200	-.19700	-.20900	-.17800
.904	-7.310	-.23700	-.25800	-.26900	-.25300	-.12600	-.13200	-.22100	-.23200	-.21200	-.18200
.904	-5.100	-.22400	-.24400	-.24300	-.22100	-.09300	-.11700	-.19800	-.19900	-.19300	-.17600
.904	-2.920	-.19900	-.21200	-.22300	-.19600	-.09400	-.10900	-.19300	-.18000	-.18400	-.16900
.904	-.750	-.17300	-.18500	-.18900	-.16900	-.10100	-.10000	-.17400	-.15900	-.16900	-.15700
.904	1.460	-.17400	-.18600	-.18900	-.16500	-.10400	-.11300	-.17900	-.16500	-.18300	-.16700
.904	3.660	-.16300	-.18000	-.18000	-.16200	-.10800	-.10700	-.16800	-.15900	-.16500	-.16200
.904	5.900	-.15500	-.17400	-.16900	-.15400	-.14100	-.13300	-.18800	-.17500	-.18700	-.17600
.904	8.080	-.15300	-.17500	-.16600	-.15300	-.14000	-.14600	-.18400	-.16000	-.18200	-.16700
.904	10.180	-.12800	-.15400	-.14400	-.13000	-.16800	-.16100	-.16200	-.15000	-.15800	-.14900
	GRADIENT	.00487	.00432	.00586	.00482	-.00205	-.00032	.00318	.00259	.00195	.00050

RUN NO. 55/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.100	-12.210	-.27000	-.23700	-.23500	-.24000	-.11300	-.14300	-.20200	-.22300	-.22600	-.23800
1.100	-10.020	-.24000	-.22300	-.21500	-.21300	-.10400	-.13700	-.18200	-.21600	-.20500	-.21200
1.100	-7.690	-.21900	-.21700	-.21200	-.20100	-.11000	-.13900	-.17700	-.19400	-.19700	-.20100
1.100	-5.380	-.20700	-.21500	-.20800	-.19300	-.10600	-.13800	-.18100	-.19100	-.19100	-.18900
1.100	-3.090	-.18800	-.19700	-.19000	-.17600	-.10000	-.12300	-.16900	-.18000	-.18000	-.18300
1.100	-.810	-.17200	-.18100	-.17700	-.17000	-.09800	-.12400	-.16800	-.19400	-.17500	-.17300
1.100	1.440	-.15100	-.16200	-.15900	-.14800	-.10400	-.13600	-.16800	-.18900	-.18000	-.18300
1.100	3.700	-.13800	-.15200	-.14900	-.14400	-.12600	-.14900	-.17800	-.19200	-.18300	-.18800
1.100	5.960	-.12300	-.13600	-.13500	-.11900	-.14800	-.16000	-.16700	-.18200	-.17700	-.18100
1.100	8.210	-.10900	-.12600	-.12100	-.11000	-.17500	-.19200	-.15300	-.15100	-.15900	-.15900
1.100	10.370	-.10500	-.10800	-.11200	-.10400	-.18100	-.19200	-.16800	-.15900	-.16600	-.16100
	GRADIENT	.00756	.00681	.00623	.00521	-.00371	-.00398	-.00119	-.00137	-.00062	-.00110

MSFC TWT 692.0TS + 10 DEG.RAMP(POS.3)- PLUME ON (UA6014) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 56/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.251	-12.250	-.17700	-.15000	-.14700	-.15200	-.02700	-.05400	-.10900	-.13500	-.13800	-.13900
1.251	-10.080	-.15500	-.14000	-.13300	-.13300	-.02700	-.04500	-.10300	-.12100	-.13000	-.12700
1.251	-7.760	-.14900	-.14900	-.14300	-.13300	-.02500	-.04900	-.10100	-.12300	-.12600	-.12500
1.251	-5.440	-.14000	-.14900	-.14100	-.12700	-.02600	-.04100	-.10400	-.11600	-.12000	-.11900
1.251	-3.130	-.12700	-.13700	-.13000	-.11600	-.02100	-.03600	-.10500	-.11300	-.11200	-.11300
1.251	-.830	-.11200	-.12900	-.12200	-.11000	-.03500	-.04900	-.11300	-.12800	-.11700	-.11500
1.251	1.460	-.10000	-.11700	-.10800	-.09600	-.04400	-.05200	-.11600	-.13400	-.12200	-.12000
1.251	3.680	-.08400	-.10200	-.09400	-.08300	-.06000	-.06300	-.11200	-.12800	-.11800	-.12200
1.251	5.900	-.07200	-.09300	-.08100	-.06800	-.08300	-.08800	-.10600	-.11300	-.11400	-.11700
1.251	8.150	-.06000	-.07000	-.06000	-.05400	-.08900	-.09400	-.09300	-.09100	-.09800	-.08800
1.251	10.360	-.05600	-.06100	-.05300	-.04800	-.09600	-.09900	-.08600	-.08300	-.08900	-.07400
	GRADIENT	.00620	.00514	.00537	.00497	-.00554	-.00370	-.00107	-.00226	-.00102	-.00141

RUN NO. 46/ 0 RN/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.460	-12.230	-.15900	-.14700	-.14300	-.14700	-.02100	-.03700	-.10300	-.11000	-.13500	-.11900
1.460	-10.110	-.14100	-.13900	-.13300	-.12800	-.01800	-.03000	-.07500	-.08300	-.09500	-.08500
1.460	-7.760	-.12300	-.13100	-.12000	-.11200	-.00100	-.01400	-.05900	-.07000	-.07700	-.07300
1.460	-5.430	-.11400	-.11800	-.09800	-.09400	.02400	.02300	-.07100	-.07100	-.08600	-.07400
1.460	-3.100	-.10700	-.10900	-.09700	-.09300	.04600	.04300	-.08700	-.08200	-.08700	-.08500
1.460	-.840	-.09500	-.10000	-.08900	-.08500	.05800	.04900	-.08800	-.08300	-.08900	-.08800
1.460	1.470	-.09200	-.09500	-.08900	-.08200	.07100	.05100	-.09400	-.09400	-.08900	-.09100
1.460	3.710	-.08500	-.09300	-.08700	-.08100	.06500	.03500	-.09100	-.11600	-.10000	-.09900
1.460	5.960	-.07000	-.08000	-.07500	-.06700	.03400	.00200	-.10500	-.10400	-.11900	-.10800
1.460	8.230	-.05300	-.06300	-.05500	-.04600	.00900	-.00900	-.09000	-.09800	-.10900	-.10200
1.460	10.410	-.05700	-.06300	-.05100	-.04300	.05600	.02300	-.09100	-.09000	-.09000	-.08600
	GRADIENT	.00303	.00233	.00132	.00172	.00309	-.00096	-.00080	-.00496	-.00171	-.00198

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON (UA6015) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 75/ 0 RN/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.802	-11.300	-.21700	-.23400	-.24400	-.22000	-.19400	-.19100	-.25600	-.25400	-.25200	-.17800
.802	-9.340	-.18900	-.22100	-.21400	-.17700	-.14100	-.13800	-.21200	-.24100	-.22500	-.16700
.802	-7.180	-.19800	-.22500	-.24100	-.19800	-.15700	-.14700	-.20900	-.21100	-.20000	-.15700
.802	-4.970	-.17400	-.20600	-.22100	-.18100	-.12600	-.12800	-.18100	-.17900	-.18600	-.15900
.802	-2.800	-.16900	-.19900	-.20600	-.16900	-.13700	-.13700	-.19400	-.18300	-.19200	-.15900
.802	-.660	-.18600	-.20900	-.22600	-.18800	-.15600	-.14400	-.18900	-.16300	-.18100	-.16600
.802	1.530	-.16200	-.19700	-.19900	-.17300	-.14700	-.13200	-.17800	-.15700	-.16000	-.14400
.802	3.700	-.15200	-.18600	-.17800	-.15500	-.14300	-.12900	-.16100	-.15700	-.15800	-.14900
.802	5.880	-.13700	-.17300	-.16500	-.14200	-.14200	-.13500	-.14500	-.14000	-.14300	-.13200
.802	8.040	-.13200	-.16700	-.16200	-.14000	-.16800	-.15500	-.14700	-.14300	-.14800	-.13400
.802	10.120	-.13200	-.16100	-.15600	-.13400	-.19200	-.16900	-.16600	-.14100	-.15800	-.14600
	GRADIENT	.00236	.00194	.00430	.00222	-.00202	.00014	.00259	.00323	.00406	.00162

RUN NO. 76/ 0 RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.902	-11.600	-.27800	-.28400	-.29500	-.25900	-.16600	-.16700	-.26300	-.21600	-.28600	-.24100
.902	-9.610	-.28100	-.30400	-.32000	-.27700	-.18500	-.18100	-.25400	-.20500	-.27200	-.23100
.902	-7.380	-.22800	-.25400	-.27500	-.24300	-.16600	-.16800	-.22500	-.18400	-.23600	-.18700
.902	-5.150	-.23400	-.25700	-.29000	-.23500	-.15400	-.16100	-.22000	-.17400	-.22800	-.18500
.902	-2.920	-.21400	-.24300	-.26300	-.22000	-.13700	-.14200	-.20500	-.15500	-.20800	-.17000
.902	-.730	-.19900	-.23300	-.23800	-.21000	-.13400	-.13000	-.19000	-.15400	-.18400	-.16100
.902	1.480	-.19800	-.22300	-.22200	-.19900	-.12700	-.13000	-.18700	-.15000	-.18400	-.15300
.902	3.670	-.19700	-.22700	-.22500	-.19900	-.13300	-.14300	-.18900	-.15500	-.18100	-.15900
.902	5.870	-.17600	-.20400	-.20200	-.17700	-.14900	-.14300	-.19900	-.15500	-.17700	-.16500
.902	8.070	-.16800	-.19700	-.19200	-.16900	-.16300	-.14200	-.19000	-.16000	-.17400	-.15500
.902	10.180	-.15900	-.18700	-.17300	-.15900	-.18200	-.15400	-.18800	-.15700	-.17000	-.16000
	GRADIENT	.00236	.00264	.00592	.00337	.00087	-.00014	.00232	.00018	.00368	.00187

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON (UA6015) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 58/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.099	-12.180	-.28100	-.26600	-.25600	-.26000	-.19600	-.19800	-.28900	-.27100	-.29200	-.28500
1.099	-10.060	-.24500	-.23600	-.22600	-.23000	-.18100	-.18700	-.27000	-.23200	-.23700	-.23000
1.099	-7.730	-.22300	-.22200	-.21000	-.21000	-.18200	-.17400	-.23800	-.21100	-.22900	-.22900
1.099	-5.410	-.20000	-.21700	-.20700	-.19800	-.15100	-.15200	-.20500	-.17600	-.18500	-.18300
1.099	-3.100	-.19800	-.20400	-.20100	-.19200	-.07600	-.09700	-.17200	-.17000	-.16200	-.17200
1.099	-.820	-.18200	-.19300	-.18400	-.18700	-.07000	-.09100	-.16300	-.14900	-.14800	-.15200
1.099	1.420	-.18000	-.19400	-.18400	-.19000	-.08600	-.11300	-.17800	-.16000	-.15400	-.16800
1.099	3.680	-.16500	-.17700	-.17000	-.17200	-.08300	-.11400	-.15700	-.14200	-.14600	-.15300
1.099	5.960	-.16100	-.17800	-.17400	-.17900	-.11500	-.14100	-.16300	-.14600	-.14600	-.16300
1.099	8.200	-.14000	-.16000	-.15500	-.15200	-.14200	-.18200	-.15400	-.13300	-.14600	-.14400
1.099	10.420	-.12900	-.13900	-.13500	-.12500	-.17700	-.19100	-.15100	-.13900	-.14900	-.13900
	GRADIENT	.00448	.00355	.00412	.00253	-.00163	-.00323	.00133	.00324	.00187	.00182

RUN NO. 57/ 0 RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.251	-12.300	-.17600	-.16100	-.15000	-.16000	-.07500	-.07900	-.16100	-.15300	-.16700	-.16100
1.251	-10.100	-.15000	-.14300	-.12800	-.13300	-.06300	-.06100	-.14400	-.13000	-.14500	-.14200
1.251	-7.730	-.15000	-.15100	-.13800	-.12900	-.06100	-.05300	-.13600	-.12200	-.12800	-.13000
1.251	-5.430	-.15800	-.15700	-.15700	-.14700	-.02200	-.02600	-.11300	-.09800	-.08500	-.10800
1.251	-3.160	-.14300	-.15300	-.15300	-.14400	-.01100	-.01600	-.10700	-.09000	-.08600	-.09600
1.251	-.880	-.14200	-.15200	-.15300	-.15000	-.01400	-.02600	-.10100	-.09000	-.08600	-.09300
1.251	1.410	-.12900	-.14100	-.14500	-.13700	-.02100	-.03600	-.08600	-.09400	-.09600	-.09100
1.251	3.630	-.12900	-.14200	-.14700	-.13100	-.03800	-.05300	-.08600	-.09000	-.10200	-.09100
1.251	5.940	-.11900	-.13500	-.13700	-.13600	-.05700	-.07400	-.08900	-.08000	-.09300	-.08900
1.251	8.190	-.09700	-.11700	-.11900	-.11300	-.06500	-.09100	-.05800	-.05600	-.06100	-.05800
1.251	10.280	-.07300	-.09700	-.08900	-.07600	-.08200	-.10100	-.08400	-.07200	-.08200	-.07600
	GRADIENT	.00243	.00195	.00115	.00229	-.00387	-.00533	.00345	-.00018	.00256	.00075

MSFC TWT 692,OTS+OGIVE FAIRING(POS.1)- PLUME ON (UA6015) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 43/ 0 RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.459	-12.290	-.16700	-.15800	-.14900	-.16200	-.05300	-.06100	-.14800	-.12700	-.15700	-.12700
1.459	-10.140	-.13600	-.13700	-.11800	-.12700	-.02600	-.02900	-.11100	-.09300	-.11600	-.09400
1.459	-7.800	-.13500	-.14000	-.12500	-.11700	-.01900	-.01600	-.10700	-.08600	-.10200	-.08700
1.459	-5.470	-.12600	-.13300	-.12700	-.11400	.00700	.01300	-.10500	-.07100	-.06500	-.07900
1.459	-3.170	-.10800	-.12200	-.11600	-.10300	.04000	.03600	-.07800	-.05700	-.04800	-.06100
1.459	-.860	-.10000	-.11800	-.11100	-.09900	.05100	.04600	-.07100	-.05500	-.05600	-.06200
1.459	1.410	-.10500	-.12100	-.11700	-.10300	.06800	.06200	-.07800	-.05600	-.05900	-.06600
1.459	3.670	-.11700	-.13100	-.13000	-.11700	.06700	.04700	-.07700	-.05500	-.06100	-.06800
1.459	5.930	-.12700	-.14300	-.13700	-.13200	.01900	.01000	-.08600	-.06800	-.05300	-.06200
1.459	8.210	-.12000	-.13300	-.12800	-.12500	.01000	-.00100	-.06800	-.04500	-.02900	-.03700
1.459	10.380	-.11100	-.13300	-.12900	-.12000	.04200	.02900	-.06900	-.05200	-.03900	-.05400
	GRADIENT	-.00139	-.00131	-.00210	-.00201	.00430	.00216	-.00017	.00022	-.00185	-.00110

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON (UA6016) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 78/ 0 RN/L = 6.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.804	-11.290	-.21100	-.23500	-.24000	-.21400	-.17000	-.17100	-.23200	-.22500	-.25900	-.18400
.804	-9.340	-.18900	-.21500	-.22700	-.19500	-.16000	-.15100	-.21400	-.20700	-.23000	-.16700
.804	-7.160	-.19100	-.21900	-.22600	-.19700	-.15500	-.14700	-.21400	-.21500	-.21500	-.15300
.804	-5.000	-.19400	-.22600	-.23800	-.21800	-.17000	-.16500	-.22400	-.20000	-.21500	-.16300
.804	-2.820	-.18500	-.22000	-.22800	-.20400	-.16000	-.15400	-.20000	-.17200	-.19000	-.16500
.804	-.680	-.19000	-.22000	-.22600	-.20600	-.17000	-.16000	-.19500	-.16800	-.18900	-.17200
.804	1.520	-.16200	-.19400	-.19400	-.17300	-.14400	-.13400	-.17500	-.15500	-.16600	-.14800
.804	3.690	-.14500	-.17500	-.17100	-.14600	-.12600	-.11600	-.14900	-.14500	-.14600	-.13800
.804	5.890	-.14500	-.17900	-.17300	-.15400	-.14600	-.14300	-.16000	-.16200	-.16000	-.14100
.804	8.040	-.13700	-.16600	-.16300	-.13900	-.16300	-.16200	[illegible]	[illegible]	[illegible]	[illegible]
.804	10.110	-.12600	-.15500	-.15000	-.12900	-.18100	-.17100	-.15400	-.12900	-.15300	-.13900
	GRADIENT	.00558	.00590	.00774	.00807	.00480	.00544	.00806	.00585	.00746	.00309

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON (UA6016) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 77/ 0 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.901	-11.550	-.28000	-.28500	-.28300	-.25700	-.16100	-.17200	-.26900	-.24800	-.28300	-.21700
.901	-9.570	-.27200	-.29600	-.30300	-.27200	-.16000	-.17000	-.25000	-.22400	-.26800	-.22000
.901	-7.340	-.25100	-.26900	-.28400	-.23900	-.14300	-.15600	-.23400	-.24100	-.23600	-.19400
.901	-5.100	-.23400	-.26300	-.28800	-.25200	-.15100	-.15400	-.22700	-.18300	-.21800	-.17900
.901	-2.910	-.21800	-.23300	-.25400	-.21200	-.10700	-.11200	-.17900	-.14300	-.18700	-.14800
.901	-.760	-.20500	-.22800	-.23400	-.20400	-.12200	-.11600	-.18400	-.14600	-.18000	-.15000
.901	1.470	-.19700	-.22200	-.22100	-.19500	-.11400	-.12300	-.18700	-.15000	-.18100	-.15500
.901	3.670	-.20000	-.22000	-.21500	-.19100	-.12100	-.12700	-.18800	-.15500	-.17400	-.16200
.901	5.890	-.17700	-.20400	-.19300	-.17600	-.14300	-.14700	-.20100	-.16800	-.18600	-.17400
.901	8.070	-.16600	-.19000	-.18600	-.16500	-.14800	-.14400	-.18500	-.15400	-.18100	-.15400
.901	10.200	-.15200	-.18200	-.17000	-.15400	-.17400	-.16000	-.18400	-.15500	-.17500	-.16000
	GRADIENT	.00281	.00205	.00591	.00328	-.00153	-.00237	-.00136	-.00182	.00173	-.00214

RUN NO. 59/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.099	-12.160	-.27300	-.24500	-.23700	-.24700	-.11000	-.13000	-.24300	-.22800	-.22300	-.23700
1.099	-10.040	-.24600	-.23000	-.22700	-.22800	-.11000	-.12400	-.23600	-.21900	-.19800	-.22100
1.099	-7.710	-.22400	-.21800	-.21700	-.21400	-.11600	-.12500	-.21900	-.20900	-.18900	-.21000
1.099	-5.400	-.21200	-.20800	-.20900	-.20100	-.09600	-.11600	-.20500	-.19500	-.18000	-.18100
1.099	-3.100	-.18900	-.19400	-.19600	-.18100	-.07500	-.10400	-.18600	-.17800	-.16700	-.17200
1.099	-.810	-.18600	-.19600	-.19400	-.18600	-.08500	-.11400	-.18400	-.17300	-.16900	-.17000
1.099	1.440	-.16500	-.17400	-.16900	-.16500	-.07700	-.10300	-.17100	-.14900	-.14400	-.15800
1.099	3.690	-.15900	-.17500	-.16800	-.17100	-.09800	-.12800	-.17200	-.14600	-.14700	-.16300
1.099	5.970	-.15500	-.17200	-.16600	-.17100	-.12700	-.15100	-.18000	-.15200	-.15100	-.16600
1.099	8.210	-.13700	-.15600	-.15100	-.15900	-.14600	-.17000	-.15300	-.13000	-.12200	-.14100
1.099	10.410	-.13100	-.14600	-.14500	-.14900	-.15200	-.17800	-.15300	-.13500	-.13100	-.14100
	GRADIENT	.00490	.00349	.00482	.00225	-.00270	-.00270	.00243	.00530	.00375	.00172

MSFC TWT 692,OTS+OGIVE FAIRING(POS.2)- PLUME ON (UA6016) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 60/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.250	-12.220	-.17300	-.15000	-.14500	-.15200	-.02000	-.03400	-.12800	-.11900	-.11600	-.13100
1.250	-10.080	-.15500	-.14000	-.13500	-.13400	-.01100	-.01700	-.12300	-.10500	-.09000	-.11400
1.250	-7.730	-.15700	-.14700	-.14200	-.13900	-.02600	-.03100	-.13100	-.11900	-.09900	-.11700
1.250	-5.440	-.14600	-.14800	-.14800	-.13700	-.01900	-.02400	-.12300	-.11600	-.10100	-.11500
1.250	-3.120	-.13800	-.14700	-.15000	-.13700	-.01200	-.01700	-.11300	-.10400	-.10100	-.10600
1.250	-.820	-.12800	-.13800	-.14300	-.13500	-.01100	-.02300	-.10300	-.09900	-.09300	-.10000
1.250	1.430	-.12000	-.13200	-.13600	-.13000	-.01600	-.03500	-.10600	-.10900	-.09600	-.10000
1.250	3.690	-.11800	-.13300	-.13500	-.13000	-.03900	-.05800	-.11100	-.09600	-.10000	-.10500
1.250	5.960	-.11200	-.12700	-.13000	-.12400	-.06400	-.08100	-.10400	-.08000	-.08200	-.09400
1.250	8.200	-.09700	-.11000	-.11300	-.10600	-.07600	-.09100	-.08200	-.05900	-.05800	-.07600
1.250	10.420	-.07800	-.09600	-.10300	-.09100	-.05400	-.09100	-.08100	-.06900	-.07200	-.07800
	GRADIENT	.00300	.00212	.00229	.00115	-.00378	-.00595	.00014	.00062	.00001	.00014

RUN NO. 42/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.460	-12.260	-.18000	-.16800	-.16600	-.16500	-.03300	-.04200	-.10900	-.10300	-.09600	-.10600
1.460	-10.110	-.14500	-.14000	-.13800	-.12900	-.01200	-.01500	-.10100	-.07200	-.06500	-.08300
1.460	-7.650	-.13700	-.13800	-.13800	-.12100	-.00400	-.00600	-.09100	-.06600	-.05800	-.07200
1.460	-5.440	-.11800	-.12600	-.11900	-.10400	.02100	.01600	-.08700	-.06100	-.06100	-.07600
1.460	-3.140	-.10900	-.12400	-.11500	-.10400	.03400	.02600	-.08300	-.06700	-.06500	-.07300
1.460	-.850	-.09600	-.11300	-.10700	-.09600	.05500	.04900	-.07400	-.05200	-.05800	-.06100
1.460	1.450	-.10100	-.11700	-.11500	-.10100	.06700	.05900	-.08000	-.06000	-.06100	-.06900
1.460	3.680	-.10700	-.12200	-.11900	-.11200	.06500	.04600	-.08100	-.05900	-.06300	-.07100
1.460	5.960	-.11300	-.12400	-.12100	-.11600	.02200	.01300	-.08900	-.06400	-.05600	-.06700
1.460	8.240	-.10000	-.11400	-.11000	-.10600	.01100	.00600	-.07400	-.05300	-.04200	-.05200
1.460	10.420	-.08600	-.10500	-.10300	-.09600	.02400	.02500	-.07000	-.05000	-.04400	-.06100
	GRADIENT	.00005	.00009	-.00087	-.00126	.00463	.00310	.00000	.00071	.00014	-.00008

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON (UA6017) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 79/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.802	-11.270	-.21900	-.24100	-.22600	-.21800	-.15400	-.11100	-.23800	-.18100	-.17000	-.17900
.802	-9.320	-.21300	-.23800	-.22000	-.21100	-.13900	-.10400	-.21800	-.16800	-.15300	-.15700
.802	-7.150	-.20000	-.23200	-.21500	-.19800	-.11400	-.09400	-.20600	-.15300	-.14400	-.15300
.802	-4.990	-.19400	-.22300	-.21300	-.19600	-.11400	-.10200	-.19100	-.15200	-.14300	-.15100
.802	-2.840	-.17800	-.21200	-.19800	-.18500	-.10500	-.08900	-.16700	-.13600	-.13300	-.14600
.802	-.650	-.15700	-.18600	-.18000	-.16400	-.09700	-.08100	-.15500	-.12400	-.12000	-.13600
.802	1.510	-.15300	-.18000	-.16800	-.16000	-.10100	-.08000	-.15200	-.13100	-.12700	-.12800
.802	3.680	-.15500	-.18000	-.17400	-.16400	-.11500	-.09600	-.16300	-.13800	-.12900	-.13700
.802	5.880	-.16300	-.18200	-.17100	-.16300	-.13300	-.11400	-.16900	-.15600	-.13100	-.14500
.802	8.040	-.14800	-.16900	-.15900	-.15400	-.14200	-.13300	-.16400	-.13800	-.11800	-.14000
.802	10.140	-.13300	-.15000	-.14500	-.14700	-.16300	-.14400	-.16300	-.14100	-.12100	-.14100
	GRADIENT	.00475	.00544	.00498	.00410	.00009	.00097	.00327	.00152	.00157	.00212

RUN NO. 80/ 0 RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.902	-11.590	-.28400	-.29000	-.29200	-.28200	-.12100	-.12600	-.25900	-.21100	-.23300	-.20500
.902	-9.580	-.26400	-.27900	-.27200	-.25500	-.11900	-.10600	-.23900	-.18000	-.18000	-.19300
.902	-7.340	-.23800	-.25400	-.23900	-.23000	-.09200	-.09500	-.20500	-.16900	-.17400	-.17100
.902	-5.120	-.24000	-.25800	-.25200	-.23900	-.09300	-.10500	-.21100	-.18000	-.18000	-.18100
.902	-2.940	-.21500	-.23700	-.22800	-.21500	-.08200	-.09000	-.19500	-.16400	-.15300	-.17300
.902	-.730	-.20800	-.22600	-.21600	-.20200	-.09000	-.08400	-.18900	-.16700	-.15100	-.16600
.902	1.440	-.20500	-.21900	-.21100	-.20000	-.09800	-.09400	-.18600	-.16100	-.15600	-.16500
.902	3.630	-.20200	-.20900	-.20100	-.19300	-.10400	-.09300	-.17800	-.15500	-.14800	-.16100
.902	5.880	-.18500	-.20700	-.19500	-.18400	-.13300	-.13100	-.20300	-.17500	-.17900	-.18100
.902	8.040	-.17900	-.19200	-.18700	-.17800	-.12500	-.12400	-.19100	-.16200	-.15800	-.16700
.902	10.180	-.16100	-.17500	-.16900	-.16100	-.15300	-.13700	-.18100	-.15900	-.16100	-.17000
	GRADIENT	.00192	.00416	.00393	.00311	-.00338	-.00086	.00247	.00151	.00046	.00169

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON (UA6017) (28 FEB 84)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 62/ 0 RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.101	-12.200	-.27000	-.24000	-.23300	-.24600	-.10700	-.12600	-.22600	-.21000	-.21100	-.22800
1.101	-10.090	-.24500	-.22800	-.22600	-.22600	-.10400	-.13100	-.22200	-.20400	-.19400	-.21200
1.101	-7.770	-.22000	-.21100	-.21000	-.20500	-.11000	-.11500	-.21300	-.19600	-.18300	-.20400
1.101	-5.460	-.20000	-.20100	-.20000	-.19300	-.09200	-.10900	-.19600	-.18200	-.18100	-.18100
1.101	-3.160	-.19500	-.19900	-.19800	-.18800	-.09400	-.11400	-.17900	-.17400	-.17600	-.17500
1.101	-.870	-.17400	-.18100	-.17900	-.17500	-.08200	-.11500	-.17600	-.17900	-.16900	-.17200
1.101	1.350	-.16100	-.17500	-.17100	-.16700	-.09200	-.12100	-.18300	-.18100	-.16600	-.17400
1.101	3.610	-.16100	-.17300	-.17700	-.17100	-.11400	-.14300	-.19600	-.18700	-.17500	-.18400
1.101	5.910	-.14100	-.15700	-.15700	-.15500	-.13300	-.15300	-.18800	-.17200	-.16000	-.17300
1.101	8.150	-.12700	-.14300	-.14200	-.14600	-.15200	-.16600	-.16600	-.13700	-.13200	-.14600
1.101	10.360	-.12500	-.13500	-.13500	-.13700	-.16400	-.18200	-.16600	-.14500	-.13500	-.15200
	GRADIENT	.00511	.00373	.00316	.00262	-.00309	-.00412	-.00257	-.00182	.00027	-.00128

RUN NO. 61/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.251	-12.210	-.17400	-.15200	-.14500	-.15000	-.02500	-.04200	-.11800	-.13100	-.13300	-.13500
1.251	-10.080	-.16200	-.14800	-.14200	-.13800	-.01300	-.02800	-.11900	-.10700	-.09900	-.11900
1.251	-7.760	-.15700	-.14900	-.14700	-.14100	-.02100	-.03300	-.12500	-.10800	-.09700	-.11800
1.251	-5.450	-.15600	-.15600	-.15300	-.14300	-.02200	-.03300	-.11100	-.11600	-.12000	-.12200
1.251	-3.130	-.13500	-.14000	-.14200	-.13400	-.02000	-.02800	-.11100	-.11200	-.11600	-.11600
1.251	-.830	-.12400	-.13300	-.13300	-.12600	-.02100	-.03300	-.10900	-.11800	-.11200	-.11400
1.251	1.410	-.10800	-.11800	-.12100	-.11000	-.02600	-.03900	-.10800	-.13300	-.11800	-.11400
1.251	3.660	-.10100	-.11800	-.11600	-.11300	-.04300	-.05600	-.11300	-.11800	-.11300	-.11500
1.251	5.920	-.09600	-.10900	-.11200	-.10900	-.07000	-.07800	-.10500	-.10800	-.09800	-.11600
1.251	8.170	-.07500	-.09100	-.09100	-.08300	-.08400	-.09500	-.07600	-.07900	-.08500	-.08600
1.251	10.400	-.06300	-.07600	-.08000	-.07100	-.07500	-.09000	-.07500	-.07300	-.08400	-.08500
	GRADIENT	.00522	.00358	.00398	.00350	-.00327	-.00398	-.00022	-.00146	.00014	.00013

MSFC TWT 692,OTS+OGIVE FAIRING(POS.3)- PLUME ON (UA6017) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 41/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.459	-12.220	-.16900	-.16000	-.15900	-.16000	-.02300	-.03300	-.12100	-.10200	-.10800	-.11100
1.459	-10.070	-.15200	-.15100	-.14700	-.13800	-.01600	-.02400	-.09500	-.07600	-.08500	-.07300
1.459	-7.740	-.14100	-.15300	-.14600	-.13000	-.01500	-.01800	-.08100	-.06200	-.06700	-.06200
1.459	-5.410	-.13100	-.14800	-.14200	-.12300	.01000	.00500	-.07000	-.04600	-.05600	-.05200
1.459	-3.110	-.11700	-.13500	-.13100	-.11500	.02700	.01700	-.06600	-.04900	-.04900	-.05200
1.459	-.830	-.10000	-.11800	-.11000	-.09600	.05000	.03800	-.07900	-.05500	-.05900	-.06400
1.459	1.470	-.10200	-.11800	-.11300	-.10200	.06500	.05600	-.09200	-.08100	-.07000	-.07600
1.459	3.730	-.10100	-.11200	-.10900	-.10700	.06500	.04200	-.10000	-.08100	-.07800	-.08400
1.459	5.980	-.09200	-.10300	-.10000	-.09700	.02700	.01900	-.10400	-.07200	-.07500	-.08700
1.459	8.250	-.08300	-.09500	-.09000	-.08800	.01900	.01100	-.09400	-.06900	-.06600	-.06800
1.459	10.430	-.07000	-.08000	-.07500	-.07200	.04800	.03400	-.09600	-.06300	-.06500	-.07700
	GRADIENT	.00202	.00302	.00276	.00079	.00566	.00409	-.00504	-.00535	-.00430	-.00473

MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON (UA6018) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 66/ 0 RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.802	-11.300	-.22600	-.25100	-.24000	-.23200	-.11600	-.11400	-.19500	-.19000	-.16500	-.16500
.802	-9.370	-.22400	-.24500	-.23600	-.22300	-.10500	-.11000	-.17700	-.17100	-.14600	-.14200
.802	-7.200	-.20400	-.22400	-.21200	-.19900	-.07400	-.08400	-.14600	-.15000	-.12000	-.12400
.802	-5.030	-.20800	-.23100	-.22100	-.20800	-.07900	-.09400	-.15000	-.14500	-.13500	-.12800
.802	-2.880	-.20200	-.22600	-.21100	-.19700	-.07800	-.08900	-.13600	-.11800	-.11800	-.12200
.802	-.720	-.17200	-.20800	-.19300	-.18800	-.07400	-.08700	-.12500	-.11500	-.12500	-.11300
.802	1.460	-.17200	-.21000	-.19000	-.16800	-.09600	-.09900	-.11800	-.12800	-.11500	-.12000
.802	3.640	-.16200	-.18700	-.17500	-.15600	-.10500	-.10300	-.11800	-.13600	-.12300	-.11900
.802	5.910	-.15000	-.17900	-.16300	-.14500	-.11300	-.10800	-.11700	-.12000	-.12100	-.11800
.802	8.000	-.13700	-.16700	-.14900	-.13400	-.13300	-.12800	-.11500	-.11400	-.12000	-.11300
.802	10.070	-.12900	-.15700	-.14000	-.12800	-.15700	-.14400	-.12300	-.12200	-.12600	-.12000
	GRADIENT	.00551	.00529	.00510	.00658	-.00474	-.00249	.00280	-.00309	-.00023	.00009

MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON (UA6018) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 65/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
.901	-11.600	-.28800	-.27900	-.28600	-.26300	-.08500	-.10600	-.16500	-.18900	-.20300	-.18300
.901	-9.620	-.24500	-.26100	-.25700	-.24300	-.08100	-.08700	-.18900	-.15700	-.15000	-.15400
.901	-7.370	-.24600	-.26900	-.26000	-.23800	-.08900	-.09700	-.18600	-.17300	-.15100	-.15700
.901	-5.150	-.24500	-.26300	-.25500	-.23500	-.07200	-.09100	-.18000	-.15600	-.14800	-.15300
.901	-2.950	-.22600	-.24300	-.23400	-.21800	-.06400	-.08900	-.16500	-.13900	-.14100	-.14500
.901	-.780	-.20500	-.23700	-.22900	-.21700	-.08700	-.09900	-.16200	-.14400	-.13900	-.15000
.901	1.400	-.20800	-.23600	-.22600	-.20400	-.09000	-.09300	-.16300	-.13700	-.12800	-.14000
.901	3.600	-.21700	-.23500	-.22900	-.22200	-.10200	-.10100	-.16300	-.14000	-.13100	-.14300
.901	5.840	-.19300	-.21400	-.20400	-.18200	-.12600	-.12600	-.16700	-.14500	-.16100	-.16000
.901	8.030	-.17000	-.20000	-.18800	-.16500	-.14000	-.13900	-.16400	-.14400	-.15700	-.15300
.901	10.160	-.16300	-.19400	-.17400	-.16000	-.16600	-.14800	-.16400	-.14800	-.14800	-.14500
	GRADIENT	.00109	.00114	.00082	.00004	-.00536	-.00137	.00023	.00018	.00188	.00073

RUN NO. 63/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.101	-12.150	-.28500	-.24900	-.24700	-.25500	-.11200	-.12100	-.24200	-.22200	-.20600	-.22800
1.101	-10.070	-.25700	-.23700	-.23200	-.23200	-.11300	-.11500	-.22900	-.21200	-.19100	-.21300
1.101	-7.720	-.23600	-.22600	-.22600	-.22100	-.11300	-.12100	-.20900	-.19500	-.17400	-.19500
1.101	-5.410	-.22300	-.21900	-.21900	-.20700	-.08700	-.10300	-.17900	-.17000	-.15600	-.17300
1.101	-3.110	-.19400	-.19600	-.19800	-.19100	-.07300	-.09300	-.16800	-.15600	-.14500	-.15500
1.101	-.830	-.18100	-.18600	-.18400	-.18200	-.06300	-.09200	-.15800	-.14600	-.14000	-.14700
1.101	1.430	-.17200	-.18200	-.17800	-.17500	-.07900	-.10900	-.17000	-.15500	-.15800	-.16600
1.101	3.640	-.16700	-.17600	-.17000	-.17100	-.09800	-.12800	-.16700	-.14300	-.15000	-.15900
1.101	5.940	-.15700	-.16200	-.15800	-.16100	-.12400	-.14700	-.17200	-.14000	-.14800	-.16100
1.101	8.170	-.14100	-.15100	-.14800	-.15100	-.15200	-.16600	-.14700	-.12300	-.12000	-.12900
1.101	10.360	-.13800	-.14500	-.14800	-.15000	-.16100	-.16700	-.14100	-.11600	-.10400	-.12100
	GRADIENT	.00400	.00285	.00400	.00298	-.00402	-.00541	-.00040	.00133	-.00147	-.00138

MSFC TWT 692,OTS + LARGE FAIRING - PLUME ON (UA6018) (28 FEB 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RUN NO. 64/ 0 RN/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.252	-12.200	-.18300	-.16300	-.15800	-.16100	-.01900	-.03200	-.13600	-.12000	-.12500	-.13200
1.252	-10.090	-.17000	-.15400	-.15100	-.14500	-.01600	-.02800	-.12900	-.10800	-.10300	-.12100
1.252	-7.740	-.16400	-.15400	-.15400	-.14600	-.02700	-.03100	-.12200	-.10500	-.08900	-.11200
1.252	-5.430	-.15400	-.15100	-.15100	-.14300	-.01900	-.02400	-.11600	-.10500	-.08900	-.10500
1.252	-3.130	-.14200	-.14800	-.14900	-.13900	-.01300	-.01500	-.10900	-.09800	-.08800	-.10100
1.252	-.860	-.13600	-.14300	-.14700	-.14400	-.01400	-.01600	-.10200	-.09000	-.08300	-.09100
1.252	1.410	-.13100	-.13800	-.13800	-.14000	-.01900	-.02900	-.09800	-.09500	-.08400	-.09000
1.252	3.630	-.12800	-.13800	-.13800	-.13800	-.03300	-.05200	-.10100	-.08100	-.08600	-.09200
1.252	5.920	-.11600	-.12800	-.12800	-.12200	-.05800	-.07700	-.10500	-.08100	-.08200	-.08900
1.252	8.170	-.08700	-.10700	-.10400	-.09700	-.08000	-.09300	-.08400	-.06400	-.06500	-.06900
1.252	10.360	-.08200	-.10100	-.09700	-.08400	-.07800	-.08700	-.07900	-.05600	-.05600	-.06100
	GRADIENT	.00209	.00156	.00187	.00031	-.00288	-.00549	.00125	.00203	.00022	.00125

RUN NO. 47/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CPB1	CPB2	CPB3	CPB4	CPB5	CPB6	CPB7	CPB8	CPB9	CPB10
1.460	-12.240	-.15800	-.14900	-.13600	-.15500	-.02400	-.03600	-.10200	-.10400	-.12300	-.12400
1.460	-10.120	-.13600	-.12900	-.11000	-.12700	-.00600	-.02000	-.10300	-.08900	-.09000	-.10100
1.460	-7.780	-.13500	-.13100	-.11800	-.11600	-.00800	-.01300	-.08200	-.07500	-.07100	-.07500
1.460	-5.460	-.11700	-.11700	-.10700	-.09900	.02300	.01200	-.10700	-.08100	-.07800	-.08800
1.460	-3.160	-.10700	-.11700	-.10600	-.09500	.04000	.02800	-.09100	-.07800	-.07400	-.08200
1.460	-.880	-.10100	-.11500	-.10900	-.09600	.05200	.04800	-.07800	-.07100	-.07200	-.07800
1.460	1.420	-.10100	-.11800	-.11400	-.10000	.06600	.05900	-.07300	-.06400	-.06600	-.07500
1.460	3.670	-.11300	-.12500	-.12200	-.11100	.07000	.05200	-.07700	-.06500	-.07000	-.08000
1.460	5.910	-.12300	-.13800	-.13200	-.12500	.03700	.02300	-.07800	-.06700	-.06300	-.07000
1.460	8.180	-.11800	-.13600	-.12800	-.12800	.00600	.00400	-.07000	-.05500	-.04300	-.04800
1.460	10.360	-.10900	-.12200	-.12100	-.12000	.04200	.02100	-.07900	-.06400	-.05700	-.06700
	GRADIENT	-.00078	-.00118	-.00232	-.00228	.00457	.00365	.00207	.00202	.00079	.00040

OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF (IA6002) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00406	-.00047	-.00142	-.00149	-.00003
-4.000	-.00508	-.00050	-.00166	-.00087	.00069
.000	-.00562	-.00061	-.00141	-.00046	.00033
4.000	-.00625	-.00095	-.00125	-.00005	.00105
8.000	-.00046	.00081	-.00051	-.00125	.00191
GRADIENT	-.00015	-.00006	.00005	.00010	.00005

RN/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00259	-.00041	-.00111	-.00032	-.00134
-4.000	-.00310	-.00040	-.00099	-.00286	-.00019
.000	-.00257	-.00032	-.00090	-.00370	-.00089
4.000	-.00083	.00004	-.00083	.00013	-.00023
8.000	-.00258	-.00044	-.00044	-.00045	.00067
GRADIENT	.00028	.00006	.00002	.00037	-.00001

RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01361	-.00202	-.00259	-.00911	-.00234
-4.000	-.01506	-.00229	-.00316	-.00462	-.00197
.000	-.01398	-.00164	-.00380	-.00287	-.00044
4.000	-.01021	-.00133	-.00208	.00246	.00125
8.000	-.00730	-.00091	-.00091	.00433	.00044
GRADIENT	.00061	.00012	.00014	.00089	.00040

RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01381	-.00200	-.00199	.00085	.00030
-4.000	-.01375	-.00203	-.00255	.00165	-.00174
.000	-.01543	-.00213	-.00316	-.00028	-.00083
4.000	-.01137	-.00143	-.00220	.00247	.00000
8.000	-.00662	-.00076	-.00083	.00140	-.00050
GRADIENT	.00030	.00007	.00004	.00010	.00022

OTS + 10 DEG.RAMP(POS.1).INC. EFFECTS- PLUME OFF (IA6002) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01141	-.00179	.00027	.00198	.00050
-4.000	-.01200	-.00179	-.00018	.00286	-.00134
.000	-.01577	-.00239	-.00095	.00331	-.00346
4.000	-.01574	-.00219	-.00200	-.00045	-.00186
8.000	-.01239	-.00165	-.00226	-.00018	-.00040
GRADIENT	-.00047	-.00005	-.00023	-.00041	-.00006

OTS + 10 DEG.RAMP(POS.2).INC. EFFECTS- PLUME OFF (IA6003) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00469	-.00067	-.00123	-.00041	.00001
-4.000	-.00444	-.00050	-.00106	-.00010	.00038
.000	-.00434	-.00052	-.00069	.00070	-.00006
4.000	-.00509	-.00074	-.00055	.00068	.00030
8.000	-.00308	-.00036	-.00018	-.00018	.00127
GRADIENT	-.00008	-.00003	.00006	.00010	-.00001

RN/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00287	-.00043	-.00113	-.00115	-.00079
-4.000	-.00313	-.00045	-.00091	-.00359	-.00003
.000	-.00194	-.00028	-.00058	-.00435	-.00373
4.000	-.00152	-.00010	-.00046	.00003	-.00176
8.000	-.00249	-.00043	-.00004	-.00074	-.00054
GRADIENT	.00020	.00004	.00006	.00045	-.00022

OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF (IA6003) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00787	-.00124	-.00121	-.00759	-.00234
-4.000	-.00734	-.00108	-.00154	-.00491	-.00171
.000	-.00701	-.00067	-.00177	-.00136	-.00234
4.000	-.00352	-.00039	-.00022	.00013	-.00001
8.000	-.00228	-.00027	.00047	.00076	-.00044
GRADIENT	.00048	.00009	.00016	.00063	.00021

RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00928	-.00120	-.00113	.00028	-.00063
-4.000	-.00763	-.00104	-.00137	.00046	-.00212
.000	-.00768	-.00100	-.00150	-.00104	-.00165
4.000	-.00535	-.00055	-.00084	-.00008	-.00055
8.000	-.00134	-.00003	.00043	-.00252	-.00001
GRADIENT	.00028	.00006	.00007	-.00007	.00020

RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00734	-.00129	.00241	.00364	-.00441
-4.000	-.00851	-.00122	.00147	.00352	-.00535
.000	-.01121	-.00166	.00056	.00308	-.00551
4.000	-.01111	-.00152	-.00101	-.00010	-.00344
8.000	-.00885	-.00113	-.00153	-.00033	-.00138
GRADIENT	-.00033	-.00004	-.00031	-.00045	.00024

OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF (IA6004) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00184	-.00017	-.00067	-.00167	.00047
-4.000	-.00282	-.00026	-.00031	-.00096	.00125
.000	-.00589	-.00064	.00001	.00011	.00059
4.000	-.00633	-.00087	.00013	.00020	.00114
8.000	-.00334	-.00035	.00046	-.00054	.00151
GRADIENT	-.00044	-.00008	.00006	.00014	-.00001

RN/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00208	-.00005	-.00088	-.00276	-.00166
-4.000	-.00336	-.00053	-.00019	-.00505	.00018
.000	-.00143	-.00006	.00001	-.00461	-.00251
4.000	-.00173	-.00012	.00001	-.00080	-.00045
8.000	-.00127	-.00010	.00028	-.00166	-.00041
GRADIENT	.00020	.00005	.00003	.00053	-.00008

RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00651	-.00117	-.00001	-.00529	-.00291
-4.000	-.00334	-.00071	-.00007	-.00444	.00025
.000	-.00352	-.00028	-.00074	.00019	-.00155
4.000	-.00077	-.00002	.00051	.00185	-.00081
8.000	.00045	.00015	.00124	-.00004	-.00031
GRADIENT	.00032	.00009	.00007	.00079	-.00013

RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00557	-.00099	.00074	.00313	-.00121
-4.000	-.00469	-.00079	-.00026	.00127	-.00192
.000	-.00350	-.00056	-.00030	.00040	-.00130
4.000	-.00265	-.00027	-.00009	.00080	-.00010
8.000	-.00013	.00007	.00083	-.00120	.00052
GRADIENT	.00025	.00007	.00002	-.00006	.00023

OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF (IA6004) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00035	-.00007	.00262	.00236	-.00386
-4.000	-.00024	.00010	.00220	.00253	-.00453
.000	-.00192	-.00020	.00190	.00272	-.00346
4.000	-.00474	-.00071	.00070	.00057	-.00307
8.000	-.00311	-.00045	.00019	-.00215	-.00205
GRADIENT	-.00056	-.00010	-.00019	-.00025	.00018

OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF (IA6005) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00820	-.00058	-.00427	-.00112	.00099
-4.000	-.00827	-.00061	-.00406	-.00108	.00093
.000	-.00941	-.00103	-.00353	-.00083	.00080
4.000	-.00980	-.00121	-.00364	-.00110	.00378
8.000	-.00546	-.00036	-.00280	-.00087	.00342
GRADIENT	-.00019	-.00008	.00005	-.00000	.00036

RN/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00632	-.00034	-.00359	-.00090	.00048
-4.000	-.00713	-.00087	-.00301	-.00315	.00261
.000	-.00493	-.00061	-.00310	-.00680	.00017
4.000	-.00496	-.00044	-.00355	-.00391	-.00005
8.000	-.00394	-.00015	-.00256	-.00063	.00106
GRADIENT	.00027	.00005	-.00007	-.00009	-.00033

OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF (IA6005) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02659	-.00383	-.00653	-.00703	-.00249
-4.000	-.02537	-.00360	-.00764	-.00509	-.00710
.000	-.02632	-.00318	-.00929	-.00268	-.00162
4.000	-.02287	-.00295	-.00763	.00053	-.00010
8.000	-.01273	-.00149	-.00374	.00382	-.00016
GRADIENT	.00031	.00008	.00000	.00070	.00088

RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02810	-.00401	-.00682	-.00160	-.00005
-4.000	-.02707	-.00399	-.00744	-.00206	-.00328
.000	-.03453	-.00476	-.00942	-.00381	-.00262
4.000	-.02772	-.00343	-.00806	-.00257	.00185
8.000	-.01489	-.00174	-.00382	.00000	.00036
GRADIENT	-.00008	.00007	-.00008	-.00006	.00064

RN/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02913	-.00438	-.00241	-.00259	.00598
-4.000	-.03070	-.00474	-.00301	-.00063	.00236
.000	-.03813	-.00602	-.00488	.00054	-.00667
4.000	-.03932	-.00575	-.00760	-.00505	-.00998
8.000	-.03202	-.00408	-.00872	-.00331	-.00273
GRADIENT	-.00108	-.00013	-.00057	-.00055	-.00154

OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF (IA6006) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01198	-.00114	-.00392	-.00090	.00199
-4.000	-.01060	-.00103	-.00315	-.00019	.00114
.000	-.01142	-.00122	-.00265	.00106	.00071
4.000	-.00943	-.00109	-.00221	.00075	.00276
8.000	-.00530	-.00038	-.00139	-.00001	.00294
GRADIENT	.00015	-.00001	.00012	.00012	.00020

RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01047	-.00078	-.00387	-.00097	.00091
-4.000	-.00976	-.00122	-.00240	-.00205	.00164
.000	-.00616	-.00065	-.00247	-.00546	-.00105
4.000	-.00649	-.00069	-.00274	-.00214	.00007
8.000	-.00421	-.00027	-.00184	-.00094	.00097
GRADIENT	.00041	.00007	-.00004	-.00001	-.00020

RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.03169	-.00473	-.00517	-.01065	-.00522
-4.000	-.02783	-.00420	-.00580	-.00597	-.00730
.000	-.02092	-.00242	-.00642	-.00352	-.00159
4.000	-.01476	-.00186	-.00424	-.00007	.00077
8.000	-.00938	-.00107	-.00218	.00173	.00129
GRADIENT	.00163	.00029	.00020	.00074	.00101

RN/L = 6.81 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.03086	-.00457	-.00442	-.00295	-.00220
-4.000	-.02761	-.00413	-.00531	-.00348	-.00453
.000	-.02702	-.00380	-.00586	-.00242	-.00268
4.000	-.02042	-.00266	-.00490	-.00040	.00164
8.000	-.01274	-.00156	-.00266	.00009	.00066
GRADIENT	.00090	.00018	.00005	.00039	.00077

OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF (IA6006) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02417	-.00382	.00231	-.00119	.00474
-4.000	-.02676	-.00431	.00126	.00051	-.00132
.000	-.03342	-.00526	-.00115	.00108	-.00945
4.000	-.03171	-.00474	-.00376	-.00260	-.01074
8.000	-.02389	-.00338	-.00411	-.00208	-.00440
GRADIENT	-.00062	-.00005	-.00063	-.00039	-.00118

OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF (IA6007) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01446	-.00181	-.00205	-.00290	.00096
-4.000	-.01135	-.00133	-.00169	-.00025	.00127
.000	-.01206	-.00139	-.00157	.00242	.00060
4.000	-.00968	-.00116	-.00131	.00295	.00169
8.000	-.00517	-.00061	-.00068	.00205	.00315
GRADIENT	.00021	.00002	.00005	.00040	.00005

RN/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01099	-.00109	-.00186	-.00332	-.00025
-4.000	-.00829	-.00105	-.00073	-.00301	.00046
.000	-.00554	-.00062	-.00082	-.00333	-.00173
4.000	-.00488	-.00050	-.00103	.00026	.00156
8.000	-.00597	-.00068	-.00076	-.00027	.00145
GRADIENT	.00043	.00007	-.00004	.00041	.00014

OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF (IA6007) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02125	-.00325	-.00058	-.00882	-.00405
-4.000	-.01580	-.00250	-.00157	-.00662	-.00602
.000	-.01152	-.00130	-.00247	-.00204	-.00195
4.000	-.00679	-.00093	-.00087	.00189	.00053
8.000	-.00503	-.00051	-.00020	.00198	-.00093
GRADIENT	.00113	.00020	.00009	.00106	.00082

RN/L = 6.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01625	-.00240	.00031	-.00165	-.00202
-4.000	-.01412	-.00211	-.00101	-.00179	-.00503
.000	-.01312	-.00176	-.00201	-.00235	-.00250
4.000	-.00829	-.00096	-.00118	.00151	-.00013
8.000	-.00538	-.00052	.00001	.00028	.00061
GRADIENT	.00073	.00014	-.00002	.00041	.00061

RN/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00656	-.00121	.00521	.00273	.00140
-4.000	-.00750	-.00120	.00444	.00616	-.00386
.000	-.01246	-.00205	.00307	.00546	-.00743
4.000	-.01485	-.00240	.00063	.00051	-.00797
8.000	-.01043	-.00171	-.00046	.00121	-.00413
GRADIENT	-.00092	-.00015	-.00048	-.00071	-.00051

OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF (IA6008) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02787	-.00323	-.00611	-.00359	.00176
-4.000	-.02129	-.00231	-.00566	-.00074	.00103
.000	-.02076	-.00243	-.00435	.00116	.00174
4.000	-.01763	-.00203	-.00393	-.00039	.00233
8.000	-.01586	-.00174	-.00289	-.00020	.00370
GRADIENT	.00046	.00004	.00022	.00004	.00016

RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02486	-.00243	-.00683	-.00260	-.00285
-4.000	-.01970	-.00258	-.00528	.00056	.00014
.000	-.01321	-.00164	-.00483	-.00433	-.00148
4.000	-.01219	-.00138	-.00467	-.00207	-.00050
8.000	-.01019	-.00102	-.00346	-.00109	.00070
GRADIENT	.00094	.00015	.00008	-.00033	-.00008

RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.04334	-.00664	-.00533	-.01847	-.00479
-4.000	-.03608	-.00555	-.00741	-.01070	-.00907
.000	-.02791	-.00372	-.00826	-.00440	-.00339
4.000	-.01805	-.00271	-.00541	.00156	.00093
8.000	-.01240	-.00162	-.00329	.00342	-.00030
GRADIENT	.00225	.00036	.00025	.00153	.00125

RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.04016	-.00600	-.00367	-.01082	-.00221
-4.000	-.03641	-.00563	-.00590	-.00751	-.00771
.000	-.03573	-.00513	-.00779	-.00727	-.00465
4.000	-.02499	-.00329	-.00668	-.00343	.00184
8.000	-.01616	-.00214	-.00384	.00038	.00037
GRADIENT	.00143	.00029	-.00010	.00051	.00119

OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF (IA6008) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02912	-.00426	.00336	-.00684	.01033
-4.000	-.03399	-.00513	.00206	-.00479	.00593
.000	-.04309	-.00677	-.00034	-.00256	-.00109
4.000	-.04347	-.00659	-.00403	-.00674	-.01231
8.000	-.03372	-.00479	-.00615	-.00485	-.00495
GRADIENT	-.00118	-.00018	-.00076	-.00024	-.00228

OTS+WING FAIRING(POS.1),INC. EFFECTS - PLUME OFF (IA6009) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	.01354	.00205	-.00509	.00575	-.00878
-4.000	.00943	.00072	-.00609	.00110	-.01804
.000	.00268	-.00027	-.00718	-.01119	-.01044
4.000	-.00361	-.00092	-.00679	-.01736	-.00025
8.000	-.00141	-.00035	-.00406	-.01092	-.00201
GRADIENT	-.00163	-.00020	-.00009	-.00231	.00222

OTS+WING FAIRING(POS.2),INC. EFFECTS - PLUME OFF (IA6010) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	.01197	.00166	-.00017	.00753	-.00020
-4.000	.01006	.00097	-.00139	.00427	-.00831
.000	.00382	.00016	-.00354	-.00223	-.00381
4.000	-.00218	-.00043	-.00657	-.01232	.00841
8.000	-.00679	-.00136	-.00751	-.01640	.00958
GRADIENT	-.00153	-.00017	-.00065	-.00207	.00209

OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON (IA6012) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00388	-.00048	-.00137	.00094	.00266
-4.000	-.00458	-.00047	-.00141	-.00044	.00123
.000	-.00391	-.00040	-.00121	-.00037	.00100
4.000	-.00455	-.00055	-.00121	-.00004	.00193
8.000	-.00373	-.00068	-.00083	-.00081	.00158
GRADIENT	.00000	-.00001	.00003	.00005	.00009

RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00636	-.00061	-.00179	-.00044	.00036
-4.000	-.00360	-.00047	-.00130	.00074	-.00017
.000	-.00439	-.00043	-.00155	.00035	-.00023
4.000	-.00280	-.00027	-.00118	.00098	.00017
8.000	-.00346	-.00034	-.00125	.00047	.00003
GRADIENT	.00010	.00002	.00001	.00003	.00004

OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON (IA6012) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01059	-.00146	-.00211	-.00807	-.00258
-4.000	-.01326	-.00174	-.00285	-.00366	-.00284
.000	-.01310	-.00162	-.00287	-.00145	.00064
4.000	-.01074	-.00137	-.00266	-.00043	.00181
8.000	-.00941	-.00105	-.00271	-.00490	-.00131
GRADIENT	.00032	.00005	.00002	.00040	.00058

RN/L = 6.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00772	-.00094	-.00130	-.01021	-.00136
-4.000	-.01073	-.00115	-.00180	-.00583	-.00254
.000	-.01104	-.00131	-.00198	-.00367	-.00024
4.000	-.00946	-.00107	-.00245	-.00097	-.00110
8.000	-.00928	-.00093	-.00252	.00232	-.00313
GRADIENT	.00016	.00001	-.00008	.00061	.00018

RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00822	-.00122	-.00010	-.00679	.00006
-4.000	-.01126	-.00170	-.00037	-.00462	-.00069
.000	-.01255	-.00192	-.00095	-.00011	-.00233
4.000	-.01348	-.00188	-.00173	.00029	-.00029
8.000	-.01016	-.00143	-.00164	-.00311	.00058
GRADIENT	-.00028	-.00002	-.00017	.00061	.00005

OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON (IA6013) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00457	-.00062	-.00113	.00036	.00132
-4.000	-.00484	-.00045	-.00137	-.00009	.00078
.000	-.00503	-.00061	-.00102	.00026	.00038
4.000	-.00365	-.00038	-.00078	.00127	.00083
8.000	-.00050	-.00052	.00003	.00046	.00018
GRADIENT	.00015	.00001	.00007	.00017	.00001

RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00576	-.00065	-.00153	-.00092	.00023
-4.000	-.00324	-.00031	-.00106	.00010	.00022
.000	-.00433	-.00039	-.00109	.00078	.00029
4.000	-.00272	-.00023	-.00072	.00087	.00040
8.000	-.00330	-.00029	-.00074	.00024	-.00013
GRADIENT	.00007	.00001	.00004	.00010	.00002

RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00949	-.00133	-.00133	-.00762	-.00109
-4.000	-.00823	-.00112	-.00166	-.00521	-.00146
.000	-.00661	-.00089	-.00136	-.00369	.00117
4.000	-.00551	-.00073	-.00136	-.00568	.00130
8.000	-.00334	-.00025	-.00150	-.00580	-.00141
GRADIENT	.00034	.00005	.00004	-.00006	.00034

RN/L = 6.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00464	-.00049	-.00036	-.01055	-.00140
-4.000	-.00459	-.00041	-.00043	-.00631	-.00291
.000	-.00335	-.00033	-.00047	-.00249	-.00131
4.000	-.00209	-.00019	-.00079	-.00175	-.00219
8.000	-.00200	-.00007	-.00086	.00035	-.00321
GRADIENT	.00031	.00003	-.00004	.00057	.00009

OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON (IA6013) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00512	-.00081	.00158	-.00538	-.00318
-4.000	-.00773	-.00103	.00109	-.00425	-.00267
.000	-.00925	-.00131	.00030	-.00148	-.00334
4.000	-.01032	-.00132	-.00107	-.00235	-.00051
8.000	-.00705	-.00095	-.00096	-.00487	.00026
GRADIENT	-.00032	-.00004	-.00027	.00024	.00027

OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON (IA6014) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00485	-.00066	-.00043	-.00008	.00126
-4.000	-.00534	-.00054	-.00070	-.00011	.00099
.000	-.00486	-.00054	-.00046	.00019	.00030
4.000	-.00431	-.00059	-.00025	.00099	.00055
8.000	-.00234	-.00074	.00030	-.00089	.00006
GRADIENT	.00013	-.00001	.00006	.00014	-.00005

RN/L = 6.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00591	-.00061	-.00091	-.00038	.00072
-4.000	-.00228	-.00026	-.00018	.00114	-.00035
.000	-.00372	-.00037	-.00030	.00041	-.00006
4.000	-.00361	-.00046	-.00003	.00139	.00024
8.000	-.00355	-.00037	-.00016	.00062	.00019
GRADIENT	-.00017	-.00002	.00002	.00003	.00007

OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON (IA6014) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00769	-.00109	-.00031	-.00477	-.00236
-4.000	-.00677	-.00088	-.00068	-.00222	-.00102
.000	-.00390	-.00061	-.00033	-.00076	.00078
4.000	-.00295	-.00044	-.00044	-.00142	.00045
8.000	-.00251	-.00018	-.00085	-.00295	-.00175
GRADIENT	.00048	.00005	.00003	.00010	.00018

RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00467	-.00057	.00080	-.00547	-.00248
-4.000	-.00404	-.00035	.00032	-.00231	-.00250
.000	-.00155	-.00020	.00052	.00058	-.00171
4.000	-.00126	-.00008	-.00004	.00079	-.00310
8.000	-.00044	.00005	.00043	-.00008	-.00325
GRADIENT	.00035	.00003	-.00004	.00039	-.00007

RN/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	.00064	.00014	.00192	-.00264	-.00285
-4.000	-.00044	.00008	.00178	-.00127	-.00180
.000	-.00142	-.00018	.00142	-.00053	-.00154
4.000	-.00310	-.00043	.00052	-.00028	-.00064
8.000	-.00261	-.00034	.00009	-.00302	-.00009
GRADIENT	-.00033	-.00006	-.00016	.00012	.00014

OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON (IA6015) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01125	-.00110	-.00388	-.00013	.00124
-4.000	-.01298	-.00122	-.00496	-.00114	.00007
.000	-.01011	-.00094	-.00470	-.00162	.00064
4.000	-.00865	-.00086	-.00408	-.00102	.00179
8.000	-.00575	-.00111	-.00263	-.00159	.00209
GRADIENT	.00054	.00004	.00011	.00002	.00022

RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01226	-.00119	-.00356	-.00089	.00094
-4.000	-.00904	-.00100	-.00311	-.00308	-.00087
.000	-.00977	-.00097	-.00498	-.00224	-.00058
4.000	-.00652	-.00058	-.00382	-.00280	-.00047
8.000	-.00334	-.00018	-.00261	.00041	.00067
GRADIENT	.00032	.00005	-.00009	.00004	.00005

RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02688	-.00361	-.00634	-.00567	-.00342
-4.000	-.03359	-.00477	-.00944	.00203	-.00910
.000	-.03160	-.00415	-.01046	-.00306	-.00118
4.000	-.02303	-.00279	-.00887	-.01242	.00130
8.000	-.01573	-.00133	-.00747	-.00685	-.00549
GRADIENT	.00132	.00025	.00007	-.00181	.00130

RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02639	-.00368	-.00603	-.00910	-.00194
-4.000	-.03405	-.00497	-.00844	-.00414	-.00505
.000	-.03276	-.00463	-.00901	-.00267	-.00260
4.000	-.02549	-.00334	-.00803	-.00864	-.00119
8.000	-.01959	-.00212	-.00731	-.00270	-.00597
GRADIENT	.00107	.00020	.00005	-.00056	.00048

OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON (IA6015) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02472	-.00361	-.00224	-.00813	.00373
-4.000	-.02731	-.00427	-.00185	-.00786	.00037
.000	-.03550	-.00555	-.00458	-.00390	-.00567
4.000	-.03552	-.00527	-.00722	-.00135	-.00755
8.000	-.02685	-.00384	-.00807	-.00719	-.00106
GRADIENT	-.00103	-.00012	-.00067	.00081	-.00099

OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON (IA6016) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01525	-.00165	-.00405	-.00124	.00228
-4.000	-.01252	-.00113	-.00365	-.00168	.00139
.000	-.01166	-.00107	-.00341	-.00096	.00113
4.000	-.00903	-.00087	-.00304	-.00018	.00243
8.000	-.00578	-.00104	-.00186	-.00164	.00134
GRADIENT	.00044	.00003	.00008	.00019	.00013

RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01481	-.00131	-.00409	-.00058	.00025
-4.000	-.00978	-.00107	-.00310	-.00008	-.00079
.000	-.00915	-.00090	-.00327	-.00263	-.00034
4.000	-.00654	-.00050	-.00293	-.00123	-.00094
8.000	-.00697	-.00072	-.00257	.00024	-.00063
GRADIENT	.00040	.00007	.00002	-.00014	-.00002

OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON (IA6016) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02700	-.00392	-.00476	-.00914	-.00413
-4.000	-.02611	-.00369	-.00599	-.00273	-.00727
.000	-.02099	-.00272	-.00590	-.00054	.00148
4.000	-.01214	-.00159	-.00497	-.00485	.00094
8.000	-.00541	-.00027	-.00445	-.00636	-.00346
GRADIENT	.00175	.00026	.00013	-.00026	.00103

RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02454	-.00360	-.00360	-.01414	-.00300
-4.000	-.02521	-.00350	-.00460	-.00537	-.00629
.000	-.02357	-.00331	-.00504	-.00221	-.00304
4.000	-.01713	-.00238	-.00487	-.00264	-.00200
8.000	-.01043	-.00130	-.00394	.00010	-.00582
GRADIENT	.00101	.00014	-.00003	.00034	.00054

RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01467	-.00235	.00264	-.01058	.00078
-4.000	-.01945	-.00297	.00157	-.00611	-.00369
.000	-.02681	-.00421	-.00110	-.00202	-.00811
4.000	-.02770	-.00415	-.00384	-.00180	-.00835
8.000	-.02066	-.00296	-.00574	-.00501	-.00241
GRADIENT	-.00103	-.00015	-.00068	.00054	-.00058

OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON (IA6017) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01059	-.00121	-.00210	-.00347	.00145
-4.000	-.01052	-.00105	-.00225	-.00189	.00160
.000	-.00926	-.00093	-.00201	-.00039	.00136
4.000	-.00625	-.00057	-.00152	.00071	.00152
8.000	-.00691	-.00183	-.00119	-.00037	.00137
GRADIENT	.00053	.00006	.00009	.00032	-.00001

RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01100	-.00116	-.00264	-.00063	.00170
-4.000	-.00733	-.00090	-.00171	-.00001	.00054
.000	-.00660	-.00070	-.00171	.00098	.00019
4.000	-.00410	-.00036	-.00135	.00168	-.00123
8.000	-.00441	-.00040	-.00117	-.00002	-.00099
GRADIENT	.00040	.00007	.00005	.00021	-.00022

RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01464	-.00219	-.00061	-.00931	-.00402
-4.000	-.01618	-.00225	-.00178	-.00477	-.00433
.000	-.01000	-.00143	-.00197	-.00154	.00045
4.000	-.00472	-.00080	-.00166	-.00246	-.00016
8.000	-.00256	-.00019	-.00241	-.00365	-.00227
GRADIENT	.00143	.00018	.00002	.00029	.00052

RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01207	-.00189	.00087	-.01151	-.00382
-4.000	-.01395	-.00202	-.00013	-.00787	-.00556
.000	-.01179	-.00177	-.00092	-.00425	-.00283
4.000	-.00752	-.00111	-.00154	-.00213	-.00352
8.000	-.00643	-.00090	-.00158	-.00205	-.00400
GRADIENT	.00080	.00011	-.00018	.00072	.00025

OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON (IA6017) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.00194	-.00023	.00462	-.00227	-.00258
-4.000	-.00366	-.00042	.00383	-.00252	-.00411
.000	-.00913	-.00146	.00250	-.00038	-.00640
4.000	-.01199	-.00191	.00024	.00026	-.00536
8.000	-.00923	-.00147	-.00214	-.00298	-.00239
GRADIENT	-.00104	-.00019	-.00045	.00035	-.00016

OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON (IA6018) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02213	-.00251	-.00602	-.00118	.00214
-4.000	-.02008	-.00217	-.00584	-.00126	.00060
.000	-.01778	-.00194	-.00517	-.00026	.00041
4.000	-.01765	-.00207	-.00466	-.00109	.00132
8.000	-.01829	-.00361	-.00364	-.00220	.00148
GRADIENT	.00030	.00001	.00015	.00002	.00009

RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.02412	-.00255	-.00666	.00020	.00066
-4.000	-.01717	-.00195	-.00538	-.00049	-.00004
.000	-.01470	[illegible]	[illegible]	[illegible]	[illegible]
4.000	-.01194	-.00133	-.00477	-.00444	-.00120
8.000	-.01187	-.00133	-.00375	-.00220	.00009
GRADIENT	.00065	.00008	.00008	-.00049	-.00015

OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON (IA6018) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.03599	-.00525	-.00577	-.00849	-.00494
-4.000	-.03320	-.00491	-.00751	.00112	-.00832
.000	-.02690	-.00364	-.00777	-.00163	.00064
4.000	-.01654	-.00226	-.00605	-.00720	.00109
8.000	-.01032	-.00097	-.00546	-.00745	-.00213
GRADIENT	.00208	.00033	.00018	-.00104	.00118

RN/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.03047	-.00457	-.00349	-.01917	-.00266
-4.000	-.03376	-.00518	-.00543	-.00915	-.00692
.000	-.03387	-.00517	-.00720	-.00372	-.00237
4.000	-.02258	-.00332	-.00713	-.00703	-.00112
8.000	-.01598	-.00216	-.00569	-.00192	-.00415
GRADIENT	.00140	.00023	-.00021	.00027	.00073

RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCNW	DCBW	DCTW	DCHEI	DCHEO
-8.000	-.01528	-.00245	.00289	-.01522	.00097
-4.000	-.02334	-.00354	.00184	-.00907	-.00109
.000	-.03240	-.00528	-.00031	-.00343	-.00487
4.000	-.03535	-.00556	-.00357	-.00455	-.00867
8.000	-.02659	-.00408	-.00631	-.01184	-.00307
GRADIENT	-.00150	-.00025	-.00068	.00056	-.00095

OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF (JA6002) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00184	.00236	-.00198	.00020	-.00011	-.00009
-4.000	-.00000	-.00127	-.00053	-.00022	-.00003	-.00002
.000	.00130	.00001	-.00113	.00381	-.00218	.00060
4.000	.00142	-.00445	.00050	.00332	-.00189	.00057
8.000	.00058	.00044	-.00435	.00581	-.00377	-.00004
GRADIENT	.00018	-.00040	.00013	.00044	-.00023	.00007

RN/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00547	.00028	-.00038	-.00127	-.00105	.00029
-4.000	-.00200	.00337	-.00188	.00003	-.00023	.00036
.000	-.00395	.00311	-.00331	.00076	-.00115	.00076
4.000	-.00234	.00319	-.00269	.00108	-.00096	.00034
8.000	.00126	.00158	-.00303	.00382	-.00256	.00102
GRADIENT	-.00004	-.00002	-.00010	.00013	-.00009	-.00000

RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00313	-.01462	.01054	-.00509	.00308	-.00104
-4.000	-.00503	-.01817	.01171	-.00386	.00199	-.00067
.000	-.01090	-.01247	.00421	-.00007	.00031	-.00010
4.000	-.00786	-.01159	.00351	.00168	-.00061	.00028
8.000	-.00625	-.00976	.00603	.00292	.00016	.00034
GRADIENT	-.00035	.00082	-.00103	.00069	-.00033	.00012

RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00105	-.01874	.01357	-.00454	.00297	-.00088
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.00307	-.00116
.000	-.00265	-.01177	.00567	-.00154	.00172	-.00033
4.000	-.00484	-.00408	-.00200	.00131	.00006	.00002
8.000	-.00339	-.00269	-.00152	.00262	.00024	-.00006
GRADIENT	-.00035	.00120	-.00131	.00071	-.00038	.00015

OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME OFF (JA6002) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00133	-.01989	.01282	-.00280	.00251	-.00089
-4.000	-.00098	-.01853	.01169	-.00367	.00272	-.00125
.000	-.00377	-.02241	.01434	-.00439	.00358	-.00129
4.000	-.00717	-.02021	.01087	-.00367	.00280	-.00075
8.000	-.00503	-.01908	.01001	-.00300	.00183	-.00070
GRADIENT	-.00077	-.00021	-.00010	-.00000	.00001	.00006

OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF (JA6003) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00530	.00114	-.00158	-.00123	.00087	-.00020
-4.000	-.00064	-.00069	-.00086	-.00011	.00028	-.00023
.000	.00365	.00323	-.00276	.00244	-.00121	.00031
4.000	-.00372	.00074	-.00083	.00543	-.00271	.00096
8.000	.00239	-.00308	-.00022	.00291	-.00139	.00044
GRADIENT	-.00038	.00018	.00000	.00069	-.00037	.00015

RN/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00169	.00471	-.00263	.00071	-.00126	.00062
-4.000	-.00205	.00000	-.00071	.00211	-.00138	.00050
.000	.00118	.00305	-.00404	.00381	-.00269	.00121
4.000	.00183	.00192	-.00333	.00414	-.00261	.00073
8.000	.00249	.00257	-.00384	.00576	-.00359	.00140
GRADIENT	.00048	.00024	-.00033	.00025	-.00015	.00003

OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME OFF (JA6003) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00282	-.00590	.00308	-.00597	.00405	-.00085
-4.000	-.00517	-.00603	.00284	-.00315	.00143	-.00026
.000	-.00546	-.00365	.00093	-.00111	.00044	.00005
4.000	-.00617	-.00307	-.00150	.00068	.00004	.00025
8.000	.00110	-.00692	.00447	.00221	.00100	.00030
GRADIENT	-.00013	.00037	-.00054	.00048	-.00017	.00006

RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00012	-.01211	.00862	-.00299	.00116	-.00060
-4.000	-.00251	-.00739	.00406	-.00179	.00110	-.00060
.000	-.00277	-.00377	.00152	-.00011	-.00024	-.00005
4.000	-.00414	.00108	-.00457	.00176	-.00086	.00009
8.000	-.00452	.00097	-.00368	.00322	-.00022	-.00008
GRADIENT	-.00020	.00106	-.00108	.00044	-.00024	.00009

RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00050	-.01643	.01131	-.00168	.00218	-.00068
-4.000	-.00252	-.01433	.01017	-.00206	.00174	-.00090
.000	-.00193	-.01853	.01305	-.00260	.00256	-.00113
4.000	-.00267	-.01738	.01112	-.00334	.00237	-.00087
8.000	-.00296	-.01394	.00730	-.00403	.00265	-.00109
GRADIENT	-.00002	-.00038	.00012	-.00016	.00008	.00000

OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF (JA6004) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00211	.00459	-.00301	-.00314	.00171	-.00093
-4.000	-.00128	.00179	-.00179	-.00498	.00291	-.00124
.000	.00516	.00115	-.00084	.00213	-.00088	.00036
4.000	.00214	.00137	-.00047	.00210	-.00124	.00025
8.000	.00548	.00151	-.00124	.00318	-.00143	.00052
GRADIENT	.00043	-.00005	.00016	.00088	-.00052	.00019

RN/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00481	.00536	-.00358	.00090	-.00208	.00071
-4.000	-.00531	.00376	-.00258	.00221	-.00175	.00086
.000	.00099	.00562	-.00504	.00167	-.00195	.00085
4.000	.00437	.00375	-.00351	.00043	-.00046	.00023
8.000	.00264	-.00042	-.00210	.00601	-.00386	.00105
GRADIENT	.00121	-.00000	-.00012	-.00022	.00016	-.00008

RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00546	.00012	.00028	-.00506	.00331	-.00075
-4.000	.00161	-.00181	.00114	-.00265	.00121	-.00024
.000	-.00263	.00219	-.00320	.00057	-.00049	.00024
4.000	-.00232	-.00212	-.00013	-.00032	.00042	.00003
8.000	.00383	-.00195	.00080	.00130	.00150	.00022
GRADIENT	-.00049	-.00004	-.00016	.00029	-.00010	.00003

RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00112	-.01090	.01007	-.00248	.00166	-.00021
-4.000	-.00099	-.00455	.00333	-.00240	.00136	-.00047
.000	.00069	-.00173	.00110	.00010	-.00015	.00013
4.000	-.00210	.00088	-.00284	.00158	-.00074	.00023
8.000	-.00201	.00043	-.00219	.00354	-.00044	.00027
GRADIENT	-.00014	.00068	-.00077	.00050	-.00026	.00009

OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME OFF (JA6004) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00239	-.00538	.00440	-.00191	.00227	-.00061
-4.000	-.00040	-.00436	.00335	-.00256	.00196	-.00088
.000	.00025	-.00901	.00709	-.00280	.00258	-.00095
4.000	-.00034	-.00955	.00721	-.00269	.00212	-.00073
8.000	-.00092	-.00548	.00307	-.00183	.00090	-.00099
GRADIENT	.00001	-.00065	.00048	-.00002	.00002	.00002

OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF (JA6005) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00134	-.00828	.00418	-.01426	.00932	-.00257
-4.000	.00326	-.00721	.00362	-.01063	.00702	-.00204
.000	.00759	-.00520	.00167	-.00601	.00455	-.00093
4.000	.00229	-.01018	.00308	-.00649	.00540	-.00117
8.000	.00235	-.00809	-.00034	-.00484	.00499	-.00082
GRADIENT	-.00012	-.00037	-.00007	.00052	-.00020	.00011

RN/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00110	.00067	-.00200	-.00722	.00401	-.00025
-4.000	-.00484	-.00207	.00026	-.00714	.00465	-.00068
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4.000	.00431	-.00030	-.00328	-.00361	.00338	-.00038
8.000	-.00178	-.00469	.00058	-.00267	.00352	-.00020
GRADIENT	.00114	.00022	-.00044	.00044	-.00016	.00004

OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME OFF (JA6005) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00598	-.04413	.02135	-.01294	.00883	-.00191
-4.000	-.00637	-.03451	.01662	-.01015	.00652	-.00156
.000	-.01276	-.01974	.00477	-.00637	.00553	-.00068
4.000	-.01290	-.01362	-.00164	-.00290	.00354	.00032
8.000	.00048	-.01505	.00704	-.00151	.00423	-.00026
GRADIENT	-.00082	.00261	-.00228	.00091	-.00037	.00024

RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00395	-.03161	.01973	-.00751	.00609	-.00109
-4.000	-.00736	-.02679	.01473	-.00685	.00574	-.00156
.000	-.01284	-.02916	.01250	-.00253	.00375	-.00024
4.000	-.01126	-.01233	-.00240	-.00157	.00335	-.00024
8.000	-.00727	-.01141	.00120	-.00075	.00384	-.00066
GRADIENT	-.00049	.00181	-.00214	.00066	-.00030	.00017

RN/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00412	-.05543	.03040	-.00152	.00280	-.00075
-4.000	-.00617	-.04303	.02516	-.00360	.00363	-.00138
.000	-.00788	-.04816	.02946	-.00269	.00339	-.00142
4.000	-.01244	-.04313	.02163	-.00534	.00493	-.00120
8.000	-.00827	-.03397	.01662	-.00231	.00212	-.00062
GRADIENT	-.00078	-.00001	-.00044	-.00022	.00016	.00002

OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF (JA6006) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00613	-.00814	.00324	-.01294	.00896	-.00237
-4.000	.00569	-.00478	.00176	-.01220	.00819	-.00204
.000	.00812	-.00465	.00154	-.00446	.00352	-.00055
4.000	.00320	-.00250	.00048	-.00794	.00559	-.00120
8.000	.00522	-.00287	-.00074	-.00653	.00571	-.00111
GRADIENT	-.00031	.00029	-.00016	.00053	-.00033	.00011

RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00187	-.00269	.00004	-.00840	.00404	-.00051
-4.000	-.00720	-.00428	.00074	-.00771	.00471	-.00057
.000	-.00102	.00032	-.00364	-.00500	.00245	-.00004
4.000	.00181	-.00338	-.00090	-.00352	.00220	-.00007
8.000	-.00204	-.00312	-.00091	-.00012	.00106	.00020
GRADIENT	.00113	.00011	-.00020	.00052	-.00031	.00006

RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00663	-.04396	.01992	-.00834	.00536	-.00079
-4.000	-.00557	-.03833	.02001	-.00456	.00267	-.00022
.000	-.00860	-.00845	.00093	-.00146	.00139	.00011
4.000	-.00777	-.00742	-.00211	-.00083	.00162	.00023
8.000	.00378	-.00819	.00290	.00236	.00203	.00036
GRADIENT	-.00028	.00386	-.00277	.00047	-.00013	.00006

RN/L = 6.81 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00402	-.03382	.02278	-.00531	.00354	-.00035
-4.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
.000	-.00734	-.02334	.01263	-.00097	.00211	.00005
4.000	-.00835	-.01176	.00078	.00114	.00094	.00009
8.000	-.00605	-.01120	.00289	.00444	.00067	.00006
GRADIENT	-.00019	.00204	-.00217	.00044	-.00014	.00009

OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME OFF (JA6006) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00265	-.03770	.02353	-.00050	.00222	-.00053
-4.000	-.00366	-.03663	.02363	-.00300	.00311	-.00134
.000	-.00553	-.04165	.02778	-.00206	.00258	-.00113
4.000	-.00887	-.03795	.02153	-.00473	.00391	-.00111
8.000	-.00790	-.03152	.01748	-.00193	.00246	-.00117
GRADIENT	-.00065	-.00017	-.00026	-.00022	.00010	.00003

OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF (JA6007) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00718	-.00246	.00050	-.00886	.00550	-.00096
-4.000	.00433	-.00408	-.00031	-.00850	.00528	-.00127
.000	.01073	-.00121	-.00097	-.00307	.00239	-.00018
4.000	.00935	-.00156	-.00033	-.00543	.00457	-.00090
8.000	.00710	-.00253	-.00073	-.00665	.00599	-.00082
GRADIENT	.00063	.00032	-.00000	.00038	-.00009	.00005

RN/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00360	.00996	-.00536	-.00684	.00087	.00020
-4.000	.00203	-.00299	.00144	-.00809	.00404	-.00069
.000	.01031	.00512	-.00525	-.00685	.00354	-.00000
4.000	.00704	.00293	-.00315	-.00742	.00438	-.00045
8.000	.00797	-.00330	-.00117	-.00192	.00130	.00006
GRADIENT	.00063	.00074	-.00057	.00008	.00004	.00003

DTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME OFF (JA6007) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00614	-.02849	.01247	-.00695	.00410	-.00077
-4.000	-.00025	-.02004	.01160	-.00356	.00150	-.00020
.000	-.00426	-.00268	-.00143	-.00034	.00016	.00024
4.000	-.00037	-.00250	-.00231	.00006	.00066	.00027
8.000	-.00121	-.00409	.00063	.00265	.00065	.00040
GRADIENT	-.00001	.00219	-.00174	.00045	-.00011	.00006

RN/L = 6.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00348	-.00975	.00887	-.00267	.00172	.00008
-4.000	-.00052	-.00598	.00427	.00002	.00024	-.00019
.000	.00056	-.00430	.00168	.00185	-.00053	.00033
4.000	-.00064	.00412	-.00703	.00431	-.00181	.00048
8.000	-.00220	.00458	-.00802	.00680	-.00184	.00019
GRADIENT	-.00001	.00126	-.00141	.00054	-.00026	.00008

RN/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00221	-.00756	.00768	.00197	.00059	-.00013
-4.000	.00176	-.00814	.00727	.00001	.00067	-.00040
.000	-.00087	-.01775	.01415	-.00111	.00163	-.00081
4.000	-.00257	-.02067	.01496	-.00452	.00344	-.00090
8.000	-.00275	-.01833	.01350	-.00331	.00195	-.00130
GRADIENT	-.00054	-.00157	.00096	-.00057	.00035	-.00006

OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF (JA6008) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00384	-.01276	.00554	-.00887	.00614	-.00143
-4.000	.00137	-.00765	.00096	-.00878	.00547	-.00117
.000	.00718	-.00803	.00200	-.00248	.00160	-.00016
4.000	-.00097	-.00619	.00069	-.00408	.00294	-.00053
8.000	.00651	-.00788	-.00051	.00365	-.00083	.00049
GRADIENT	-.00029	.00018	-.00003	.00059	-.00032	.00008

RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00278	-.00689	.00004	-.00415	.00050	.00011
-4.000	-.00529	-.00575	-.00157	-.00483	.00325	.00112
.000	.00084	-.00507	-.00246	-.00303	.00115	.00077
4.000	-.00158	-.00882	.00018	-.00277	.00182	.00022
8.000	-.00423	-.00875	-.00081	.00124	-.00010	.00071
GRADIENT	.00046	-.00038	.00022	.00026	-.00018	-.00011

RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00764	-.04129	.02675	-.00934	.00598	-.00142
-4.000	-.01200	-.03322	.01770	-.00476	.00267	-.00078
.000	-.01128	-.01624	.00258	-.00354	.00276	-.00009
4.000	-.00822	-.00857	-.00361	.00010	.00053	.00087
8.000	-.00810	-.01058	.00113	.00323	-.00051	.00083
GRADIENT	.00047	.00308	-.00266	.00061	-.00027	.00021

RN/L = 6.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00393	-.03089	.01981	-.00455	.00363	-.00065
-4.000	-.00953	-.02561	.01325	-.00301	.00281	-.00088
.000	-.00982	-.01956	.00615	.00062	.00109	-.00002
4.000	-.00996	-.00557	-.00747	.00241	.00004	.00063
8.000	-.00655	-.00478	-.00502	.00609	-.00171	.00085
GRADIENT	-.00005	.00250	-.00259	.00068	-.00035	.00019

OTS + LARGE FAIRING, INC. EFFECTS - PLUME OFF (JA6008) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00624	-.03807	.02421	-.00176	.00262	-.00100
-4.000	-.00974	-.04004	.02530	-.00278	.00306	-.00144
.000	-.00952	-.05166	.03475	-.00153	.00233	-.00154
4.000	-.01352	-.05264	.03051	-.00159	.00226	-.00115
8.000	-.01396	-.04339	.02380	.00029	.00122	-.00088
GRADIENT	-.00047	-.00158	.00065	.00015	-.00010	.00004

OTS+WING FAIRING(POS.1),INC. EFFECTS - PLUME OFF (JA6009) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.01904	.01760	-.02520	.00720	-.00391	.00144
-4.000	.01508	.01105	-.01943	.00756	-.00381	.00166
.000	.01504	.00173	-.01105	.01028	-.00530	.00210
4.000	.01006	-.00817	-.00210	.00727	-.00279	.00141
8.000	.00570	-.00909	-.00078	.00736	-.00169	.00131
GRADIENT	-.00063	-.00240	.00217	-.00004	.00013	-.00003

OTS+WING FAIRING(POS.2),INC. EFFECTS - PLUME OFF (JA6010) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = .000

RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.01216	.02603	-.02767	.00722	-.00464	.00181
-4.000	.00994	.02367	-.02554	.00754	-.00418	.00189
.000	.01527	.01541	-.01894	.00923	-.00503	.00213
4.000	.01718	.00579	-.00976	.00858	-.00471	.00121
8.000	.01572	-.00583	-.00128	.00766	-.00225	.00085
GRADIENT	.00091	-.00224	.00197	.00013	-.00007	-.00009

OTS + 10 DEG.RAMP(POS.1),INC. EFFECTS- PLUME ON (JA6012) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00730	-.00217	-.00018	-.00009	.00046	-.00039
-4.000	-.00187	.00064	.00029	.00245	-.00081	-.00007
.000	-.00588	-.00300	.00112	-.00037	.00057	-.00023
4.000	.00528	-.00176	.00023	.00172	-.00081	.00012
8.000	-.00142	-.00306	.00099	.00128	-.00214	.00007
GRADIENT	.00089	-.00030	-.00001	-.00009	-.00000	.00002

RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00879	-.00590	.00237	-.00091	.00113	-.00028
-4.000	.00888	-.00456	.00202	-.00034	.00124	-.00041
.000	.00111	-.00168	.00034	-.00188	.00167	-.00033
4.000	-.00516	-.00228	.00058	-.00075	.00081	-.00024
8.000	-.00113	-.00483	.00282	-.00192	.00125	-.00045
GRADIENT	-.00175	.00029	-.00018	-.00005	-.00005	.00002

OTS + 10 DEG.RAMP(POS.1).INC. EFFECTS- PLUME ON (JA6012) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00166	-.01265	.00669	.00198	-.00204	-.00067
-4.000	-.00330	-.01729	.00944	-.00092	.00029	-.00084
.000	-.00050	-.01445	.00705	.00014	-.00051	-.00039
4.000	-.00126	-.00163	-.00217	.00028	-.00119	-.00035
8.000	-.00199	-.00722	.00295	-.00100	-.00205	.00022
GRADIENT	.00026	.00196	-.00145	.00015	-.00018	.00006

RN/L = 6.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00885	.00862	-.00065	-.01225	.00632	-.00255
-4.000	-.00063	.00005	.00332	-.01275	.00751	-.00270
.000	-.00692	-.00280	.00389	-.01163	.00591	-.00229
4.000	-.00549	.00470	-.00426	-.00834	.00267	-.00120
8.000	-.00417	.00737	-.00379	-.00724	-.00046	-.00026
GRADIENT	-.00061	.00058	-.00095	.00055	-.00061	.00019

RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00562	-.01141	.00640	-.00184	.00024	-.00070
-4.000	-.00623	-.01484	.00925	-.00174	.00099	-.00080
.000	-.00479	-.01546	.00806	-.00272	.00191	-.00104
4.000	-.00285	-.01858	.00867	-.00234	.00203	-.00084
8.000	-.00647	-.01274	.00468	.00059	-.00050	-.00006
GRADIENT	.00042	-.00047	-.00007	-.00007	.00013	-.00000

OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON (JA6013) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00456	-.00307	.00181	-.00085	.00146	-.00039
-4.000	.00704	-.00128	.00126	.00107	.00034	-.00027
.000	-.00550	-.00555	.00344	-.00195	.00173	-.00049
4.000	.00134	-.00482	.00254	.00031	.00021	-.00015
8.000	-.00252	-.00379	.00168	.00091	-.00093	.00004
GRADIENT	-.00071	-.00044	.00016	-.00009	-.00002	.00002

RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00999	-.00345	.00089	-.00184	.00212	-.00018
-4.000	.01003	-.00549	.00286	-.00166	.00204	-.00065
.000	.00222	-.00432	.00245	-.00297	.00236	-.00067
4.000	-.00324	-.00387	.00181	-.00547	.00350	-.00111
8.000	-.00137	-.00513	.00429	-.00573	.00358	-.00120
GRADIENT	-.00166	.00020	-.00013	-.00048	.00018	-.00006

RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00543	-.01628	.01110	.00233	-.00284	.00001
-4.000	.00134	-.01487	.01037	.00020	-.00052	-.00022
.000	.00009	-.00941	.00451	.00052	-.00047	.00007
4.000	.00472	-.00462	.00198	.00034	-.00110	-.00005
8.000	-.01007	-.00265	-.00009	-.00192	-.00085	.00013
GRADIENT	.00042	.00128	-.00105	.00002	-.00007	.00002

RN/L = 6.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00524	.00919	-.00105	-.01217	.00551	-.00216
-4.000	-.00590	.00470	.00162	-.01188	.00660	-.00235
.000	-.00314	.00465	-.00022	-.01164	.00562	-.00233
4.000	-.00471	.00811	-.00456	-.00950	.00293	-.00148
8.000	-.00243	.01206	-.00636	-.00837	.00078	-.00096
GRADIENT	.00015	.00043	-.00077	.00030	-.00046	.00011

OTS + 10 DEG.RAMP(POS.2),INC. EFFECTS- PLUME ON (JA6013) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00153	-.00729	.00379	.00140	-.00149	-.00030
-4.000	-.00401	-.00926	.00648	.00044	.00000	-.00026
.000	-.00276	-.01121	.00648	-.00154	.00123	-.00073
4.000	-.00165	-.01505	.00784	-.00151	.00109	-.00070
8.000	-.00659	-.01000	.00402	-.00056	.00028	-.00033
GRADIENT	.00029	-.00072	.00017	-.00024	.00014	-.00006

OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON (JA6014) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00327	-.00204	.00166	-.00045	.00119	-.00063
-4.000	.00306	-.00319	.00205	.00082	.00017	-.00032
.000	-.00176	-.00486	.00322	-.00045	.00085	-.00030
4.000	.00370	-.00478	.00306	.00360	-.00174	.00029
8.000	.00211	-.00348	.00248	.00205	-.00198	.00027
GRADIENT	.00008	-.00020	.00013	.00035	-.00024	.00008

RN/L = 6.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.01102	.00287	.00022	-.00391	.00341	-.00063
-4.000	.00843	-.00014	.00050	-.00136	.00144	-.00063
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4.000	.00205	-.00178	.00145	-.00205	.00175	-.00056
8.000	.00067	-.00476	.00459	-.00191	.00107	-.00055
GRADIENT	-.00080	-.00020	.00012	-.00009	.00004	.00001

OTS + 10 DEG.RAMP(POS.3),INC. EFFECTS- PLUME ON (JA6014) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00259	-.01473	.01043	.00157	-.00163	-.00044
-4.000	-.00502	-.01068	.00844	.00018	-.00013	-.00031
.000	.00299	-.00858	.00610	-.00035	.00021	-.00005
4.000	.00470	-.00309	.00153	-.00079	.00018	-.00017
8.000	-.00066	-.00473	.00315	-.00242	-.00047	-.00003
GRADIENT	.00122	.00095	-.00086	-.00012	.00004	.00002

RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00844	.00292	.00481	-.01404	.00713	-.00232
-4.000	-.00131	.00025	.00470	-.01281	.00717	-.00240
.000	-.00254	.00019	.00395	-.01107	.00558	-.00207
4.000	-.00159	.00414	-.00080	-.00954	.00353	-.00126
8.000	.00036	.00822	-.00282	-.00762	.00131	-.00098
GRADIENT	-.00004	.00049	-.00069	.00041	-.00045	.00014

RN/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00278	.00106	-.00122	-.00064	-.00020	-.00046
-4.000	-.00026	-.00106	.00190	-.00064	.00054	-.00038
.000	-.00160	-.00406	.00298	-.00253	.00169	-.00073
4.000	-.00089	-.00551	.00324	-.00210	.00152	-.00052
8.000	-.00515	-.00320	.00090	-.00123	.00050	-.00017
GRADIENT	-.00008	-.00056	.00017	-.00018	.00012	-.00002

OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON (JA6015) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.01791	-.02850	.00783	-.00747	.00422	-.00204
-4.000	.00896	-.00931	.00377	-.00395	.00378	-.00104
.000	-.01151	-.00855	.00615	-.00799	.00735	-.00135
4.000	.00572	-.01177	.00373	-.00702	.00529	-.00132
8.000	.00446	-.01206	-.00056	-.00818	.00449	-.00128
GRADIENT	-.00040	-.00031	-.00000	-.00038	.00019	-.00004

RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00879	-.01591	.00364	-.01051	.00361	-.00205
-4.000	.00576	-.00995	.00147	-.00894	.00462	-.00212
.000	.00249	-.00194	.00346	-.00938	.00790	-.00102
4.000	-.00694	-.00402	-.00074	-.00784	.00542	-.00143
8.000	.00036	-.00669	-.00288	-.01841	.01075	-.00298
GRADIENT	-.00159	.00074	-.00028	.00014	.00010	.00009

RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00732	-.03365	.02059	-.00877	.00794	-.00163
-4.000	-.00984	-.04336	.02350	-.00887	.00819	-.00127
.000	-.01064	-.03014	.01325	-.00640	.00648	-.00057
4.000	-.00246	-.01353	.00018	-.00462	.00478	-.00045
8.000	-.00893	-.01087	.00336	-.00448	.00305	-.00055
GRADIENT	.00092	.00373	-.00291	.00053	-.00043	.00010

RN/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.01438	-.02368	.01760	-.01974	.01357	-.00325
-4.000	-.01731	-.03091	.01983	-.01842	.01340	-.00329
.000	-.01496	-.02905	.01632	-.01458	.00973	-.00266
4.000	-.01375	-.01654	.00478	-.00973	.00523	-.00154
8.000	-.00777	-.00768	.00117	-.01007	.00432	-.00105
GRADIENT	.00045	.00180	-.00188	.00109	-.00102	.00022

OTS+OGIVE FAIRING(POS.1),INC. EFFECTS- PLUME ON (JA6015) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00716	-.03601	.02345	-.00304	.00346	-.00087
-4.000	-.01810	-.03181	.01939	-.00408	.00438	-.00101
.000	-.01975	-.04115	.02240	-.00494	.00464	-.00129
4.000	-.01520	-.04237	.02130	-.00722	.00671	-.00152
8.000	-.01854	-.03221	.01369	-.00441	.00449	-.00092
GRADIENT	.00036	-.00132	.00024	-.00039	.00029	-.00006

OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON (JA6016) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.01012	-.00902	.00528	-.00482	.00468	-.00149
-4.000	-.01265	-.00882	.00545	-.00342	.00319	-.00085
.000	-.01977	-.01031	.00562	-.00384	.00367	-.00066
4.000	.00842	-.00777	.00238	-.00313	.00293	-.00089
8.000	.00434	-.00728	.00305	-.00463	.00254	-.00096
GRADIENT	.00263	.00013	-.00038	.00004	-.00003	-.00001

RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.01929	-.00637	.00245	-.00574	.00347	-.00155
-4.000	.00487	-.00747	.00320	-.00639	.00503	-.00152
.000	.00088	-.00339	-.00046	-.00773	.00561	-.00113
4.000	-.00530	-.00425	-.00082	-.00386	.00308	-.00084
8.000	.00055	-.00569	.00165	-.00749	.00493	-.00124
GRADIENT	-.00127	.00040	-.00050	.00032	-.00024	.00008

OTS+OGIVE FAIRING(POS.2),INC. EFFECTS- PLUME ON (JA6016) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00595	-.03674	.02501	-.00938	.00777	-.00122
-4.000	-.00821	-.03243	.02045	-.00827	.00720	-.00060
.000	-.00966	-.01952	.00910	-.00518	.00534	-.00038
4.000	.00001	-.00665	-.00070	-.00374	.00421	-.00031
8.000	-.00626	-.00408	-.00089	-.00566	.00513	-.00103
GRADIENT	.00103	.00322	-.00264	.00057	-.00037	.00004

RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.01451	-.02495	.02142	-.02139	.01432	-.00294
-4.000	-.01047	-.02493	.02080	-.01815	.01289	-.00258
.000	-.00893	-.02070	.01544	-.01439	.00911	-.00227
4.000	-.00929	-.01332	.00738	-.00973	.00574	-.00114
8.000	-.00677	-.00537	.00393	-.01026	.00562	-.00115
GRADIENT	.00015	.00145	-.00168	.00105	-.00089	.00018

RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.01367	-.02355	.01529	-.00161	.00226	-.00080
-4.000	-.01175	-.02131	.01411	-.00225	.00291	-.00061
.000	-.01261	-.02960	.01808	-.00388	.00379	-.00104
4.000	-.00866	-.03474	.02018	-.00597	.00590	-.00126
8.000	-.01214	-.02442	.01217	-.00389	.00335	-.00039
GRADIENT	.00039	-.00168	.00076	-.00046	.00037	-.00008

OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON (JA6017) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00990	-.00591	.00335	-.00632	.00596	-.00059
-4.000	.00096	-.00592	.00305	-.00154	.00227	-.00006
.000	.00292	-.00278	-.00012	-.00446	.00387	-.00060
4.000	.00304	-.00380	.00174	-.00381	.00310	-.00058
8.000	.00194	-.00392	.00176	-.00455	.00313	-.00073
GRADIENT	.00026	.00026	-.00016	-.00028	.00010	-.00007

RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00038	-.01107	.00663	-.00519	.00444	-.00037
-4.000	.00867	-.00731	.00516	-.00391	.00386	-.00056
.000	.00244	-.00354	.00127	-.00513	.00400	-.00058
4.000	-.00028	-.00132	.00028	-.00559	.00426	-.00074
8.000	.00221	-.00332	.00199	-.00430	.00230	-.00075
GRADIENT	-.00112	.00075	-.00061	-.00021	.00005	-.00002

RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.00209	-.02454	.01768	-.00738	.00604	-.00062
-4.000	-.00531	-.01809	.01297	-.00248	.00170	-.00005
.000	.00045	-.01274	.00648	-.00203	.00226	.00016
4.000	-.00082	-.00381	.00070	-.00211	.00236	.00004
8.000	-.00197	-.00482	.00031	-.00401	.00242	-.00034
GRADIENT	.00056	.00179	-.00153	.00005	.00008	.00001

RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00753	-.00432	.01063	-.01936	.01283	-.00224
-4.000	-.00550	-.01342	.01570	-.01128	.00649	-.00190
.000	-.00376	-.00905	.01040	-.00954	.00495	-.00163
4.000	-.00400	-.00430	.00443	-.00691	.00286	-.00072
8.000	-.00259	-.00062	.00294	-.00397	-.00014	-.00029
GRADIENT	.00019	.00114	-.00141	.00055	-.00045	.00015

OTS+OGIVE FAIRING(POS.3),INC. EFFECTS- PLUME ON (JA6017) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.01431	.00922	-.00262	.00126	-.00085	-.00039
-4.000	-.00686	.00211	-.00111	-.00113	.00172	-.00060
.000	-.00587	-.00747	.00513	-.00245	.00217	-.00090
4.000	-.00524	-.01664	.01059	-.00380	.00365	-.00093
8.000	-.00831	-.01029	.00515	-.00411	.00247	-.00045
GRADIENT	.00020	-.00234	.00146	-.00033	.00024	-.00004

OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON (JA6018) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .800

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	.01016	-.01610	.00682	-.00558	.00481	-.00070
-4.000	-.00255	-.01050	.00459	.00220	.00042	.00037
.000	-.00371	-.01655	.00591	.00200	-.00024	.00033
4.000	.00122	-.01766	.00661	.00793	-.00370	.00095
8.000	.00457	-.01772	.00745	.00201	-.00073	.00098
GRADIENT	.00047	-.00089	.00025	.00072	-.00051	.00007

RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00584	-.02020	.00879	-.00981	.00756	-.00015
-4.000	.00955	-.01322	.00490	-.00475	.00433	.00006
.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4.000	-.00616	-.00901	.00007	-.00118	.00206	-.00006
8.000	-.00265	-.00693	.00268	-.00134	.00152	-.00049
GRADIENT	-.00196	.00053	-.00060	.00045	-.00028	-.00002

OTS + LARGE FAIRING, INC. EFFECTS - PLUME ON (JA6018) (12 MAR 84)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0040

PARAMETRIC DATA

BETA = .000 ELV-IB = 10.000
ELV-OB = 5.000 PLUME = 1.000

RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.00970	-.04673	.02919	-.00818	.00649	-.00183
-4.000	-.01082	-.03976	.02346	-.00780	.00661	-.00079
.000	-.00565	-.02513	.01049	-.00529	.00539	-.00034
4.000	-.00176	-.01181	.00050	-.00172	.00241	.00000
8.000	-.00896	-.00875	.00009	-.00157	.00150	-.00044
GRADIENT	.00113	.00349	-.00287	.00076	-.00052	.00010

RN/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.250

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.01692	-.03284	.02662	-.02354	.01545	-.00390
-4.000	-.01312	-.03857	.02715	-.01980	.01363	-.00333
.000	-.01108	-.03305	.02176	-.01579	.00996	-.00235
4.000	-.01194	-.01821	.00754	-.01091	.00632	-.00143
8.000	-.00818	-.01209	.00558	-.00707	.00211	-.00051
GRADIENT	.00015	.00255	-.00245	.00111	-.00091	.00024

RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.460

ALPHA	DCAF	DCNF	DCLMF	DCY	DCYNF	DCBL
-8.000	-.01378	-.02181	.01485	.00015	.00012	-.00053
-4.000	-.01554	-.02812	.01961	-.00079	.00147	-.00052
.000	-.01749	-.04201	.02616	-.00236	.00265	-.00096
4.000	-.01351	-.04780	.02782	-.00683	.00658	-.00183
8.000	-.01718	-.03587	.01800	-.00402	.00401	-.00081
GRADIENT	.00025	-.00246	.00103	-.00076	.00064	-.00016