AD-784 121

WIND TUNNEL TEST RESULTS FOR THE DIRECTION CONTROLLED ANTITANK (DCAT) MISSILE AT MACH NUMBERS FROM 0.64 TO 2.50

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Chrysler Corporation

Prepared for:

Army Missile Command
National Aeronautics and Space Administration

12 October 1973

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REPORT DOCUMENTATION PAGE

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1. REPORT NUMBER: RD-73-27	2. GOVT ACCESSION NO.
3. RECIPIENT'S CATALOG NUMBER	
4. TITLE *(and Subtitle)*: WIND TUNNEL TEST RESULTS FOR THE DCAT MISSILE AT MACH NUMBERS FROM 0.64 TO 2.50	5. TYPE OF REPORT & PERIOD COVERED: Technical Report
	6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s): T. A. Martin and Donald J. Spring	8. CONTRACT OR GRANT NUMBER(s): Contract NAS9-13247
9. PERFORMING ORGANIZATION NAME AND ADDRESS: Chrysler Corporation Space Division, Data Management Group, New Orleans, LA 70189	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS: DA Project No. 1M262303A214, AMC Management Code 632303.11.21405
11. CONTROLLING OFFICE NAME AND ADDRESS: Aeroballistics Directorate, US Army Missile Research, Development & Engineering Laboratory, US Army Missile Command, Redstone Arsenal, AL	12. REPORT DATE: 12 October 1973
	13. NUMBER OF PAGES: 244
14. MONITORING AGENCY NAME & ADDRESS *(If different from Controlling Office)*: Same as 11	15. SECURITY CLASS. *(of this report)*: Unclassified
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT *(of this Report)*

Approved for public release; distribution unlimited.

17. DISTRIBUTION STATEMENT *(of the abstract entered in Block 20, If different from Report)*

18. SUPPLEMENTARY NOTES

19. KEY WORDS *(Continue on reverse side if necessary and identify by block number)*

Reaction jet control
Jet interaction effects
Wrap-a-round fin
Aerodynamics
Antitank missile

20. ABSTRACT *(Continue on reverse side if necessary and identify by block number)*

Wind tunnel test results are presented to show aerodynamic characteristics over the Mach number range of 0.64 to 2.50 of the DCAT missile. Data are presented showing the interference created by the rear mounted reaction control system. Two candidate fins were installed on the model during tests: a flat folding fin and a curved wrap around fin.

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(Y-MOD = 100.0)			233-244

PLOTTED COEFFICIENTS SCHEDULE: (A): CN, CLM vs. ALPHA; CN vs. CLM; CY vs. ALPHA

INTRODUCTION

The Direction Controlled Anti-Tank Missile (DCAT) is a shoulder fired weapon with a rear located jet reaction control system. The control system utilizes four bi-stable fluidic valves powered by a portion of the exhaust gases during the post eject, boost phase of the missile's flight. Two candidate fins are proposed to afford tube launch capability, a flat folding fin (F_4) and a curved wrap around fin (F_5). The model was tested with the control system operated at two conditions; at de ign level (supply pressure to ambient pressure ratio = 86) and an over pressure level (pressure ratio = 130).

Tests were conducted at the NASA-Ames facility in the 14 Foot Transonic and the x 7 Foot Supersonic Tunnels. Test Mach number range was from M = 0.64 to 2.5 and the model was tested over the angle-of-attack range ± 4 degrees.

MODEL DESCRIPTION

External Geometry:

A 1.5 percent scale model of the DCAT was used during the tests. Photographs of the model are shown in figures 4 and 5. Details of the external geometry are given in figure 2. Cut outs shown in the fins are intended to accommodate the mechanism used to extend the fins after launch. Both fins (fold down fin, F_4 & wrap around fin, F_5) were tested with simulated "pop up" springs installed in these cut outs. The trailing edge of each fin extended one-half inch beyond the model base when installed. The launch tube bore riders shown attached to F_4 are in practice installed on the missile surface, but for ease of fabrication were mounted on this fin. Fin F_5 was not tested with the bore rider installed. The fin retaining band is utilized to provide structural support to the forward fin mounting pads and was tested installed with F_4 only. The four conduits located 90° apart and oriented between the fins simulated wiring tunnels on the missile used to route electrical leads from the gyro guidance package forward of the motor to the fluidic control package near the missile base. These conduits were installed on all configurations tested.

Fluidic Valves:

The four single stage jet reaction control valves were located in the model with the exhaust ports located as shown in figure 2. These valves are flight hardware valves modified to fit the oversize model and to accept commands from a remote device rather than a gyro package. Each

valve is a bi-stable fluidic device which may be switched by closing the appropriate control port. Switching of these valves is controlled at 60 cycles per sec. Control is produced by biasing the flow in the desired direction during a portion of each cycle. Cold air was supplied to the valves during testing to simulate the hot gasses employed during flight.

It was necessary to adjust the operating concept of the control system in the wind tunnel to afford matching flight conditions. In flight, the hot gas is supplied to the valves at 1250 psi (86 times ambient air pressure). In the reduced atmosphere, both the supply pressure level and pressure ratio could not be maintained. The parameter selected to be matched was pressure ratio. Maintaining this ratio allowed duplicating the external flow characteristics developed due to the interaction between the control jet flow and the free stream. However, the flight thrust of the valves was not duplicated at the reduced pressure level. A determination of the "scaled" thrust was made by calibrating the model with the tunnel evacuated to test pressures but with no free stream flow. This information is presented in figure 3.

CONFIGURATIONS INVESTIGATED

A summary of the configurations and conditions investigated is given in table I. Configuration B_2F_4C is the configuration of primary interest and testing of B_2F_5C and off-design control pressurization ($P_{O_j}/P_F = 130$) was accomplished only to the extent of test time available. Extensive

testing was done to determine if operating the control system in a plane interferred with control system operation in the opposite plane. Testing of the control system-on condition was not done at Mach numbers 2.20 and 2.50 since no effect of the control system was found as this range was approached.

TEST FACILITY DESCRIPTION

The 9-by-7 Foot Supersonic Tunnel is a component of the Ames Unitary Plan Wind Tunnel. This test facility is a closed-loop, continuous flow, variable-density tunnel. The Mach number range of the 9-by-7 leg of this tunnel is from 1.4 to 2.6. The test was conducted under the Mach numbers from 1.55 to 2.50 at stagnation pressures of 16 to 22 psia.

The 14 Foot Transonic Tunnel is a closed-loop, continuous flow with a constant stagnation pressure (14.7 psi). Mach number range of this facility is from 0.6 to 1.4. Testing was conducted from 0.64 to 1.10 Mach number.

DATA REDUCTION

Forces and moments were reduced to non-dimensional coefficient form in the missile axis system. Reference dimensions used in the reduction are:

S_{ref} = .11 sq. ft.

ℓ_{ref} = .375 ft.

B_{ref} = .375 ft.

XMRP = 0.0

YMRP = 0.0

ZMRP = 0.0

The data accuracy is considered to be reflected by the repeatability of the data in the pitch plane (C_N & C_m). The measurement in the yaw plane (C_Y) was strongly influenced by the dynamic response of the sting-balance-model. Therefore, this data usefulness is limited to determining levels and trends.

NOMENCLATURE
General

SYMBOL	SADSAC SYMBOL	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, slugs/ft^3

Reference & C.G. Definitions

A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE
(Continued)

Body-Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient; $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$

ADDITIONS TO NOMENCLATURE

SYMBOL	SADSAC SYMBOL	DEFINITION
P_F		free stream static pressure, psia.
P_{o_j}		control system supply pressure, psia.
P_{o_j}/P_F	POJ/PF	ratio of control system pressure to free stream pressure.
P_{MOD}	P-MOD	control system modulation in pitch plane.
Y_{MOD}	Y-MOD	control system modulation in yaw plane.
B_2	B2	body
C		conduits spaced 90° apart
MOD		modulation, a positive modulation is a force that causes a positive moment; a modulated force is a portion of the total reactive force acting in a selected direction, for a 60% modulation flow is biased in the desired direction for 80% of a cycle and for 20% of the cycle the flow is directed in the opposite direction yielding a net force in the desired direction for 60% of the cycle.
CPB		base pressure coefficient.

TABLE I.

TEST No. 14-603 | TEST No. 97-604-1

TEST: DCAT

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES P_{t_2}/P_{t_1}		P_{mcD}	Y_{mcD}	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) .63	.80	.95	1.00	1.10	1.55	1.8	2.2	2.5	
RX1001	B2F4C	A	O	—		—	—		1	63	33	74	73	87	112	135	138	
02				86		0	0		2	55	34	75	40	88	113	136	139	
03						40			3	56	35	76	41	89	114			
04						60			4	57	36	77	42	94	115			
05						100			5	58	37	78	43	91	116			
06						0	40		7	59	38	79	44	95	118			
07						40			8	60	39	80	45	96	119			
08						100			9	61	47	81	46	97	120			
09						0	60		10	62	48	82	70	98	121			
10						60			11	64	49	83	71	99	122			
11						100			12	65	50	84	72	100	123			
12						0	100		13	92	51	85	66	102	125			
13						40			14	93	52	86	67	103	126			
14						60			15	94	53	87	68	104	127			
15						100			16	95	54	88	69	105	128			
16						-60	0		6			89		93	116			
17							60		17			90		101	124			
18							100		18			91		106	129			

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CY	CBL	CYN	CLM	CAF	CAB	CA	CPB				0.7

COEFFICENTS

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES: A: α : −4° → +4°

TABLE I. Concluded.

TEST No. 14-603 | TEST No. 97-604-1

TEST: DCAT

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

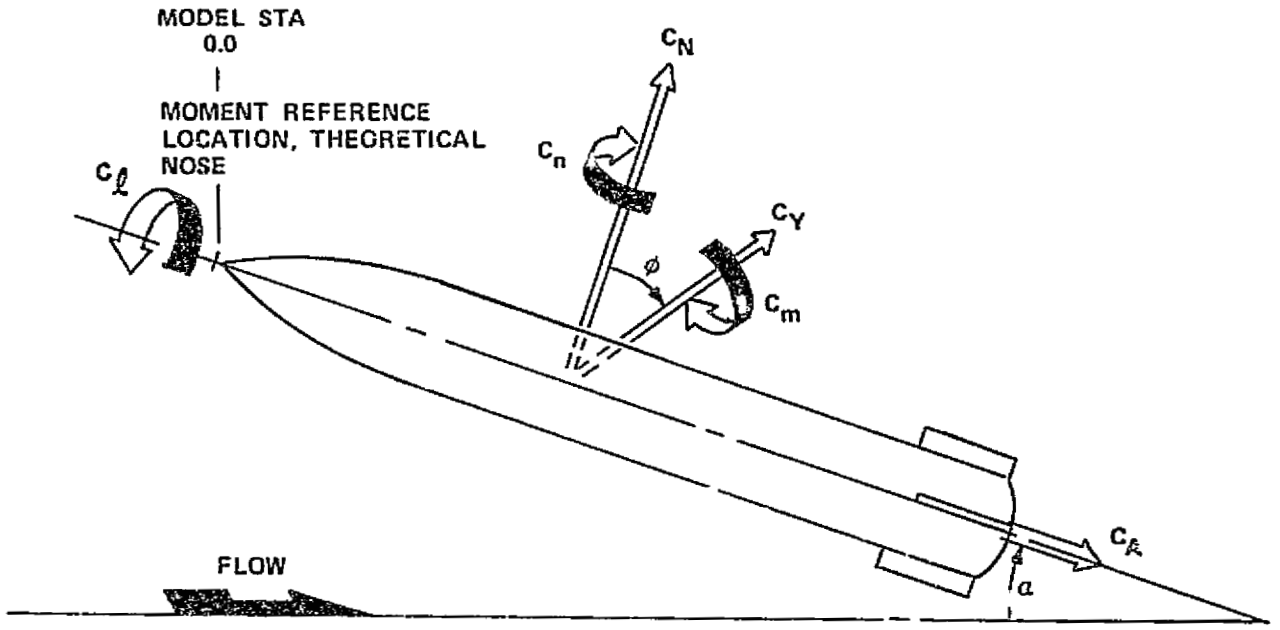
DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									TEST RUN NUMBERS
							.63	.80	.95	1.00	1.10	1.55	1.8	2.2	2.5	
RX1C 19	B2F4C	A	0	130	0		19					107	130			
20					100	0	20					108	131			
21					60	60	21					109	132			
22					0	100	22					110	133			
23					100	100	23					111	134			
24	B2F5C			86	0	0	27		103	97						
25					40	0	28		104	98						
26					100	0	29		105	99						
27					0	100	30		106	100						
28					40	100	31		107	101						
29					100	100	32		108	102						
30				—	—	—	25	110	109	96						

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CM	CY	CRL	CYN	CLM	CAF	CAB	CA	CPB				09

COEFFICENTS

IDVAR (1) IDVAR (2) NDV

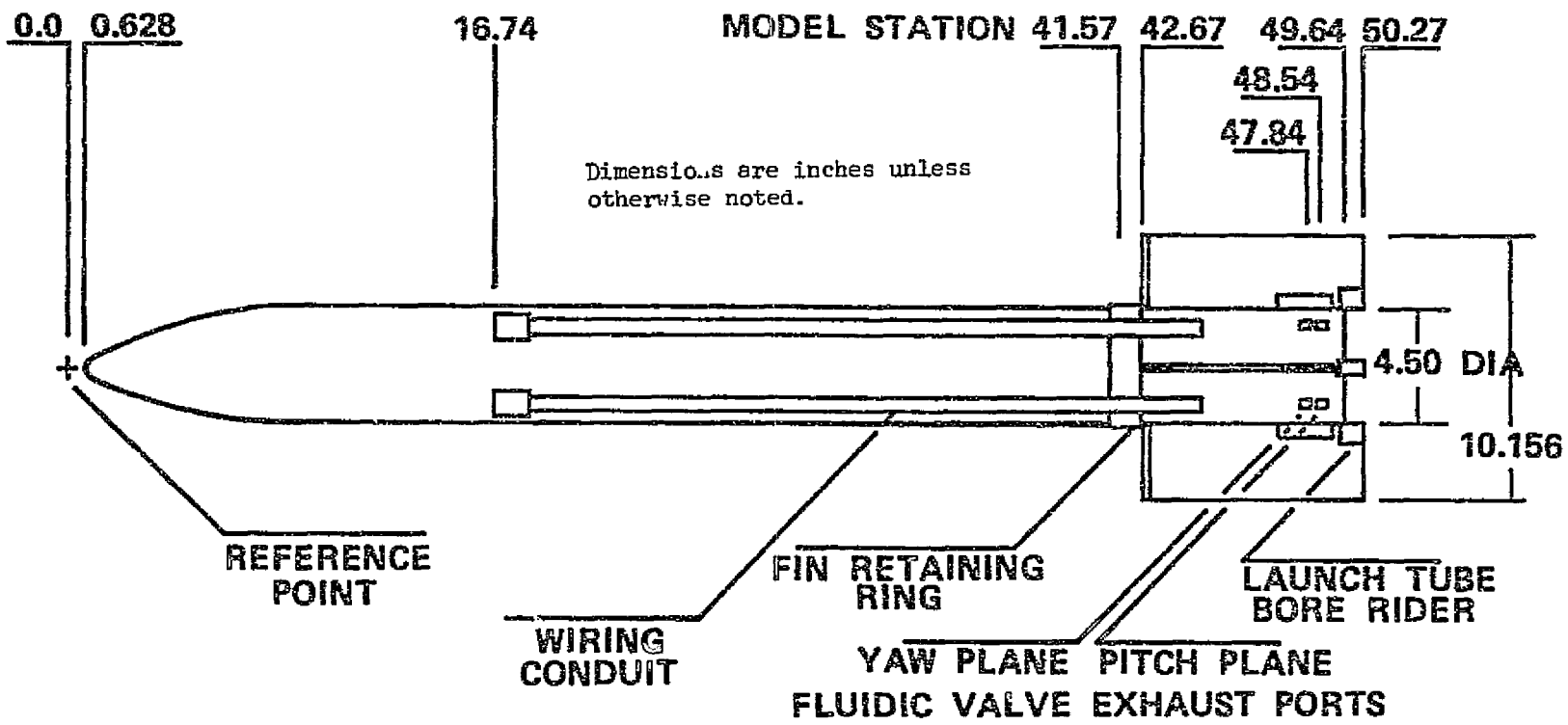
α OR β SCHEDULES: A(α): −4° → +4°



NOTE: ARROWS INDICATE POSITIVE DIRECTION OF ANGLES, FORCES, AND MOMENTS

FORCES AND MOMENTS WILL BE REDUCED TO BODY AXES COEFFICIENTS

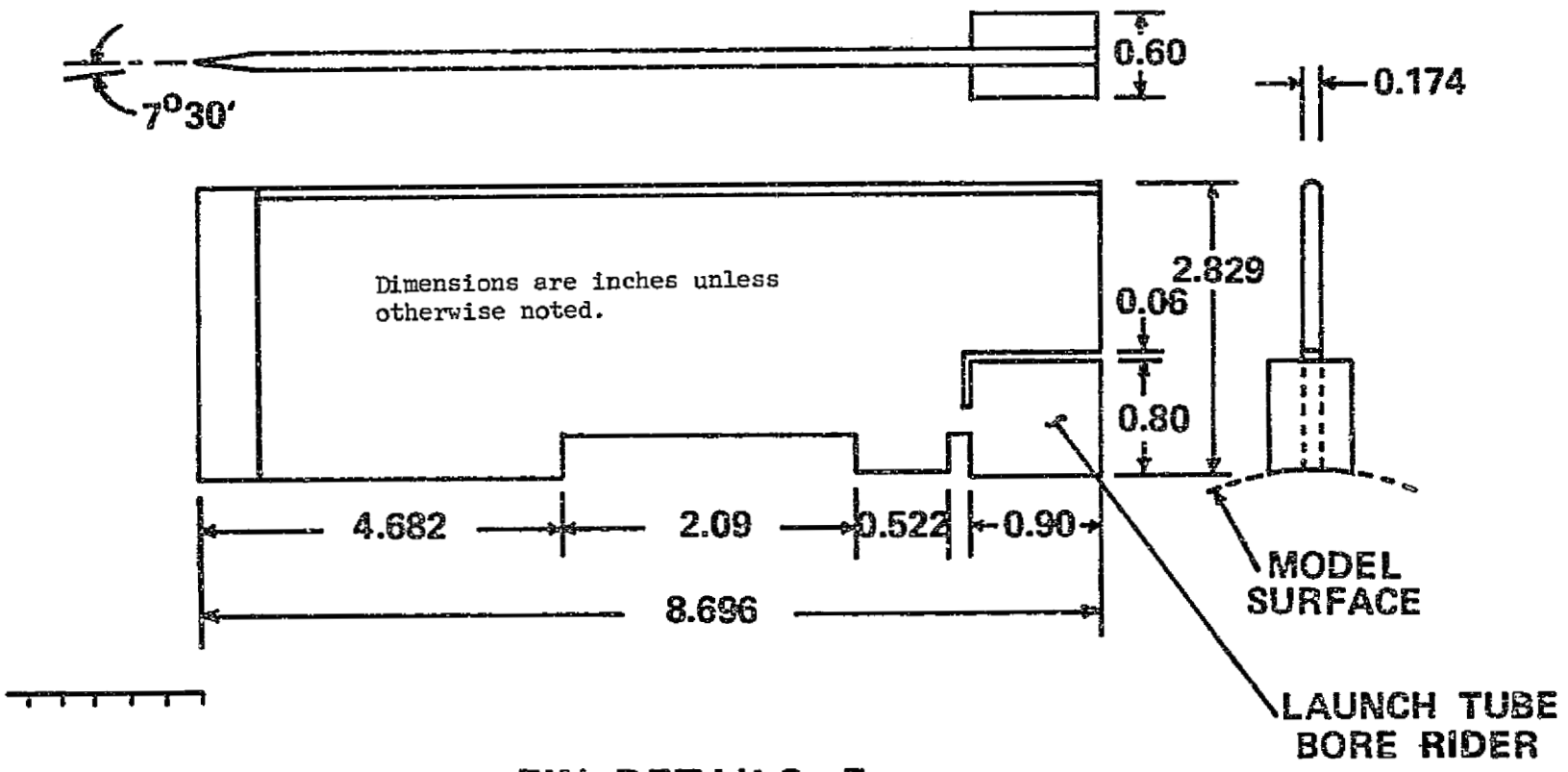
Figure 1. - Axis Systems.



a. Model Geometry (B_2F_4C)

Figure 2. - Model Details.

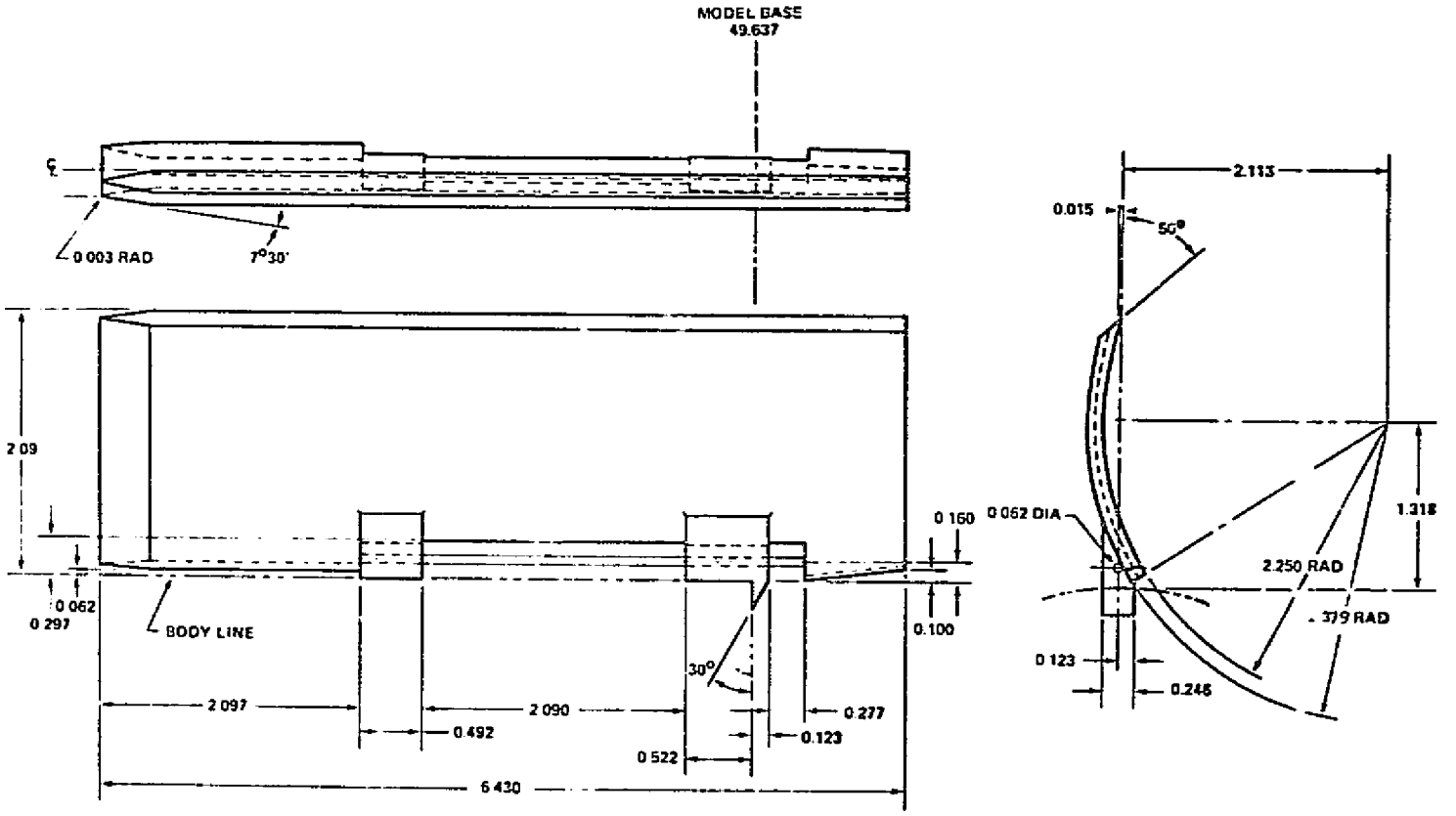
FIN CANT ANGLE TO PRODUCE CLOCKWISE ROLL, 0.15° (NOT SHOWN)



FIN DETAILS, F_4

b. Fin Details, F_4

Figure 2. - Continued.

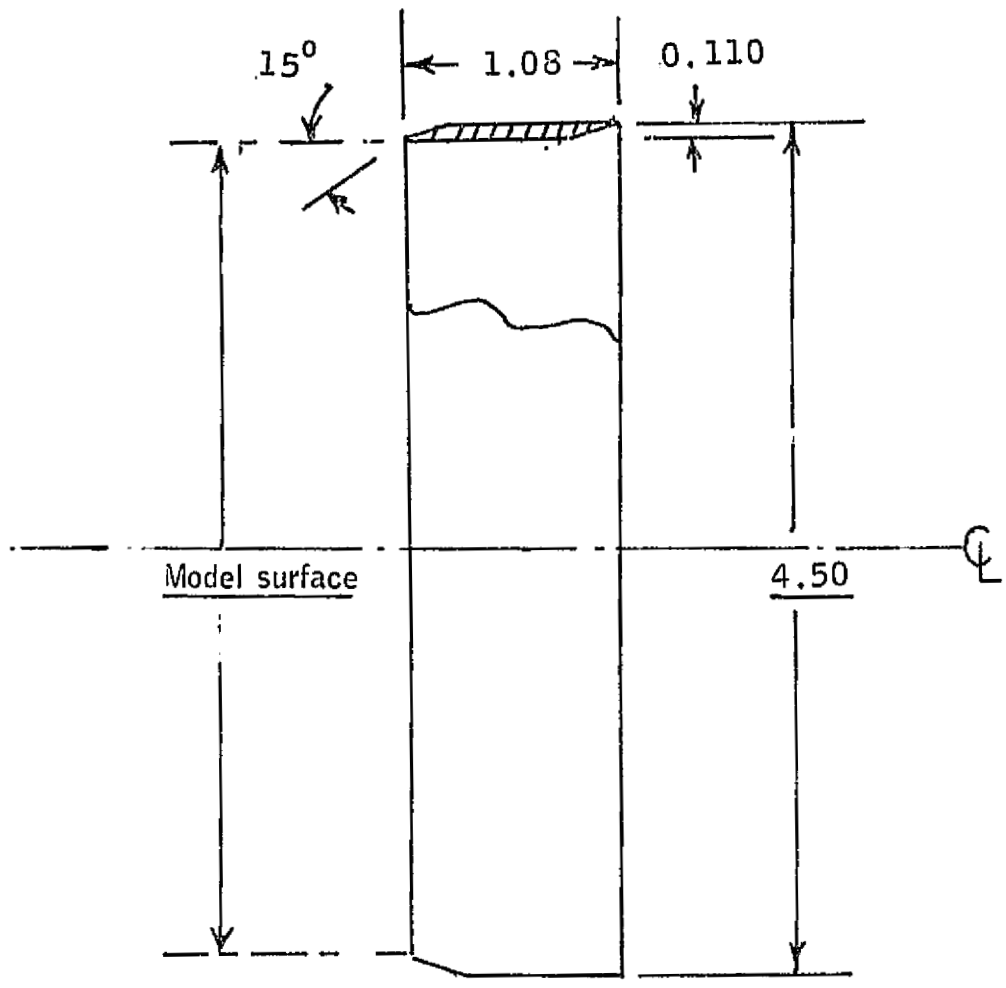


Dimensions are inches
unless otherwise noted.

c. Fin Details, F_5

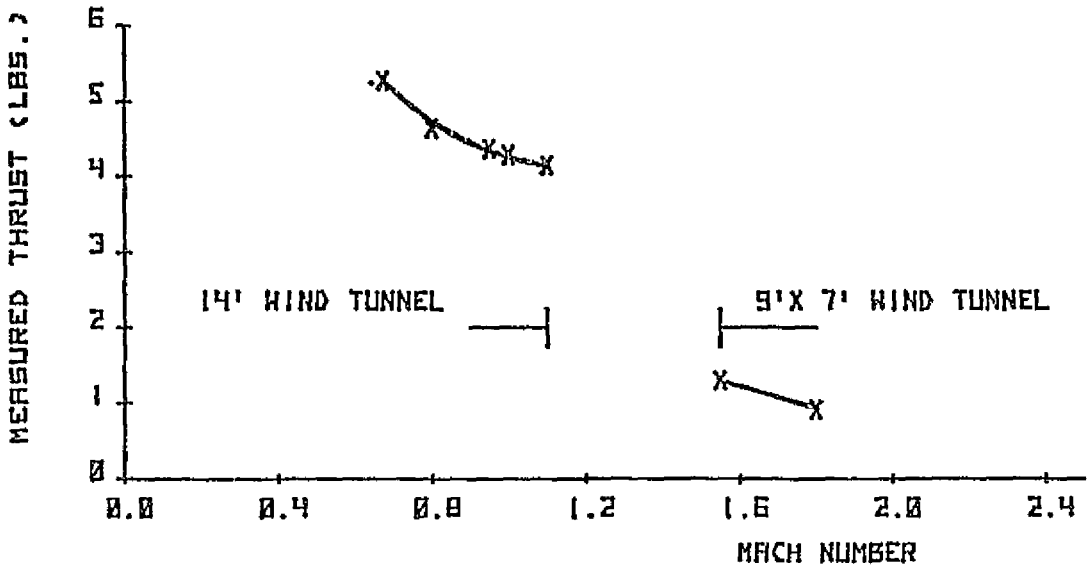
Figure 2. - Continued.

Dimensions are inches
unless otherwise noted.

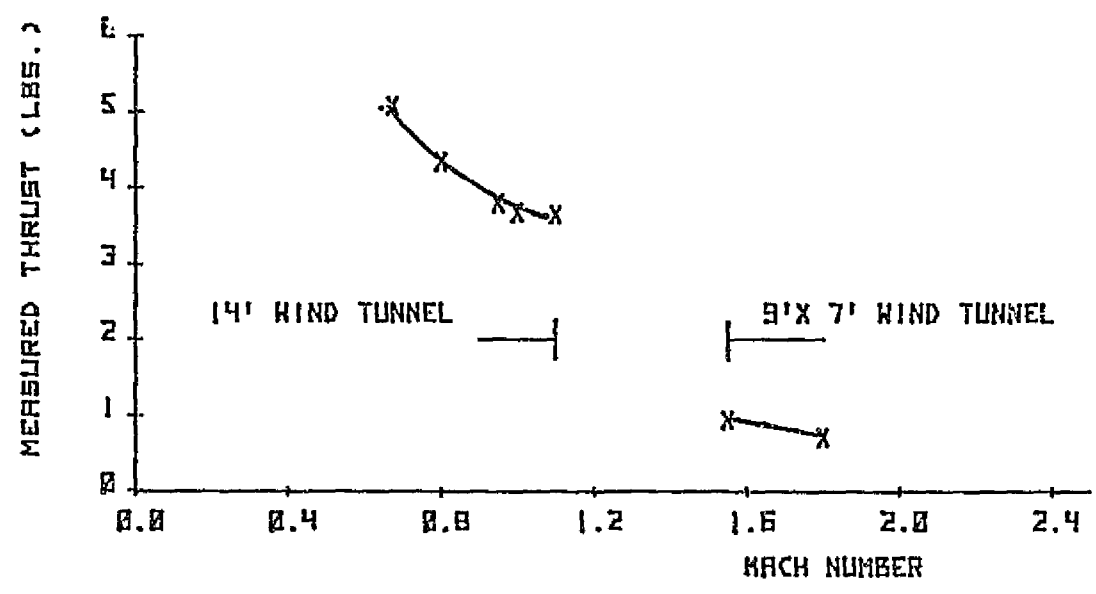


d. Fin Retaining Ring

Figure 2. - Concluded.



PITCH PLANE



YAW PLANE

Figure 3. - DCAT Scaled Thrust Levels (P_{o_j}/P_F = 86).

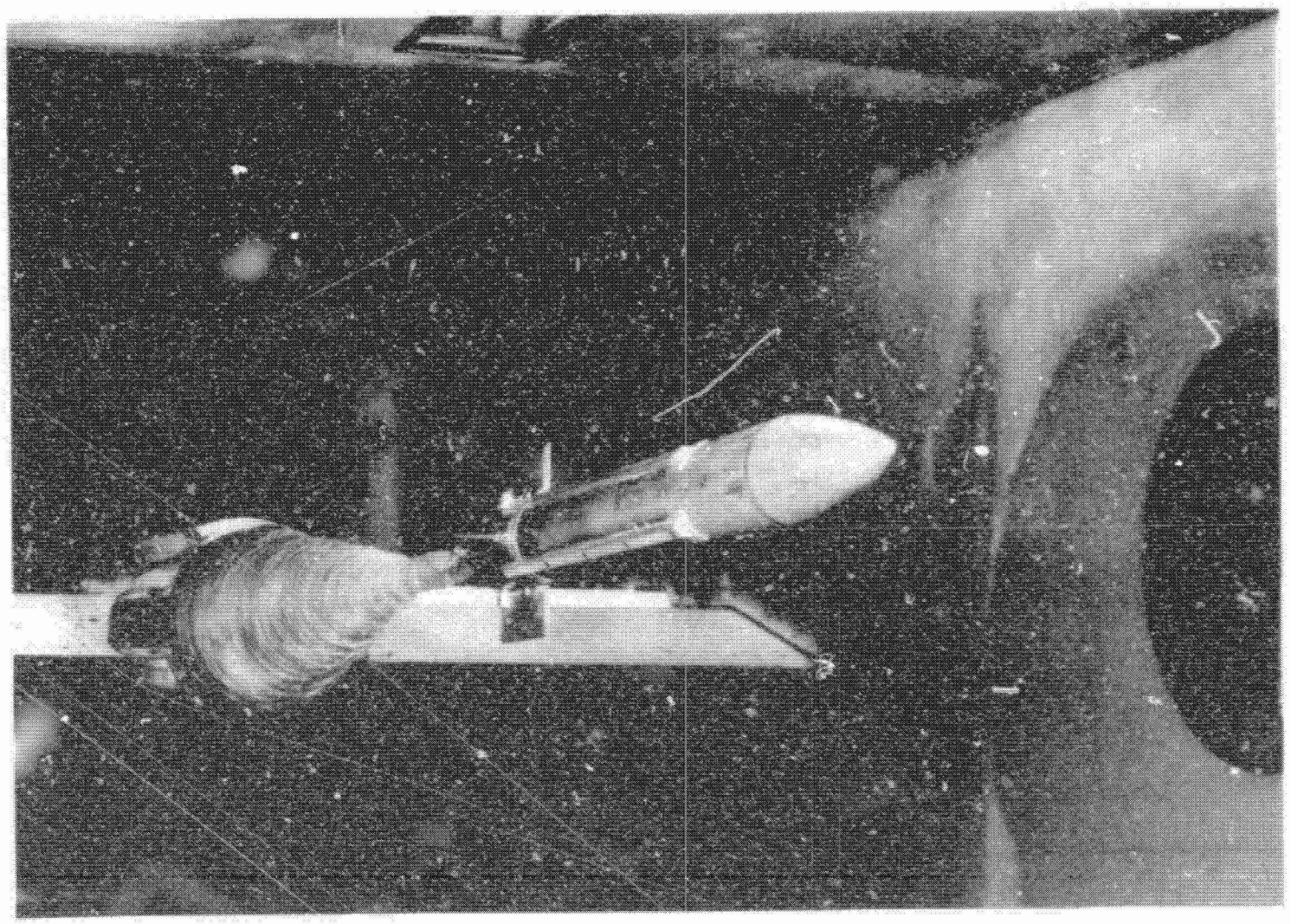
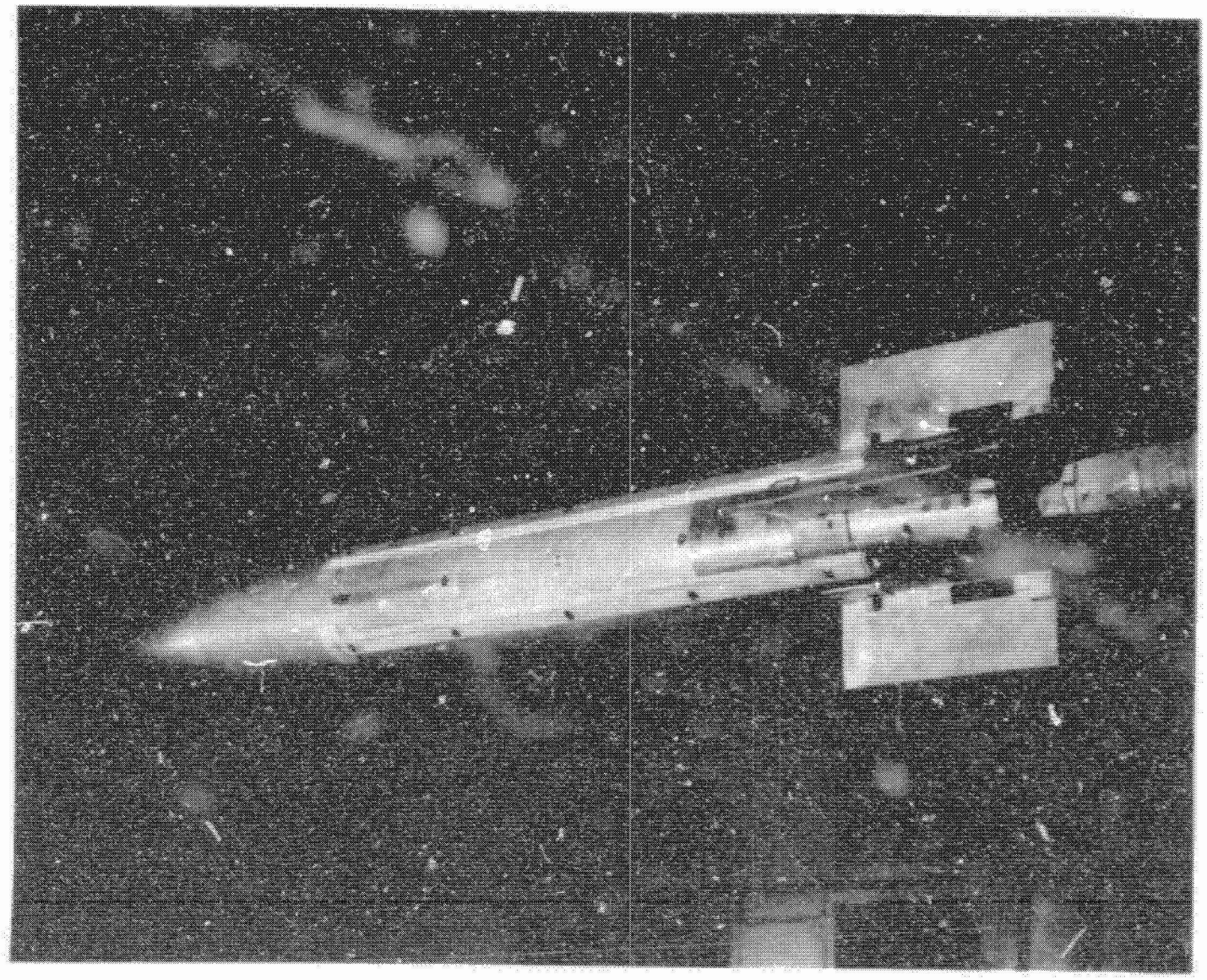


Figure 4. - Photograph of Tunnel Installation of Model.

a. Front Oblique View

Figure 5. - Photographs of Model.



b. Rear Oblique View

Figure 5. - Concluded.

PLOTTED DATA

Tabulations of the plotted data and corresponding source data are available from Data Management Services Operations.

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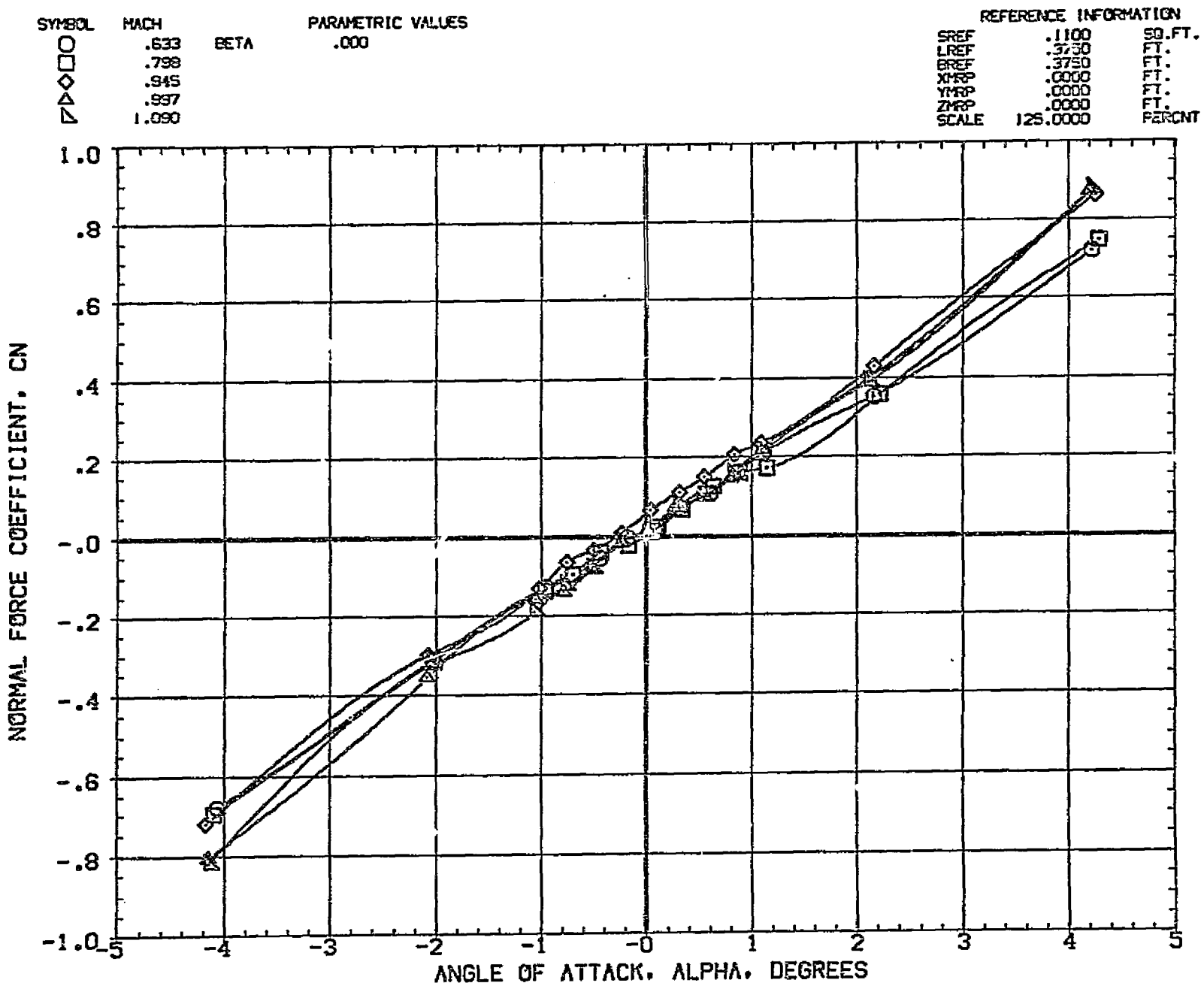

MACH NUMBER EFFECT - CONFIGURATION B2 F4 C

DCAT ARC 603/604 B2 F4 C (AX1001)

SYMBOL	MACH	PARAMETRIC VALUES	
○	1.555	BETA	.000
□	1.801		
◇	2.200		
△	2.500		

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
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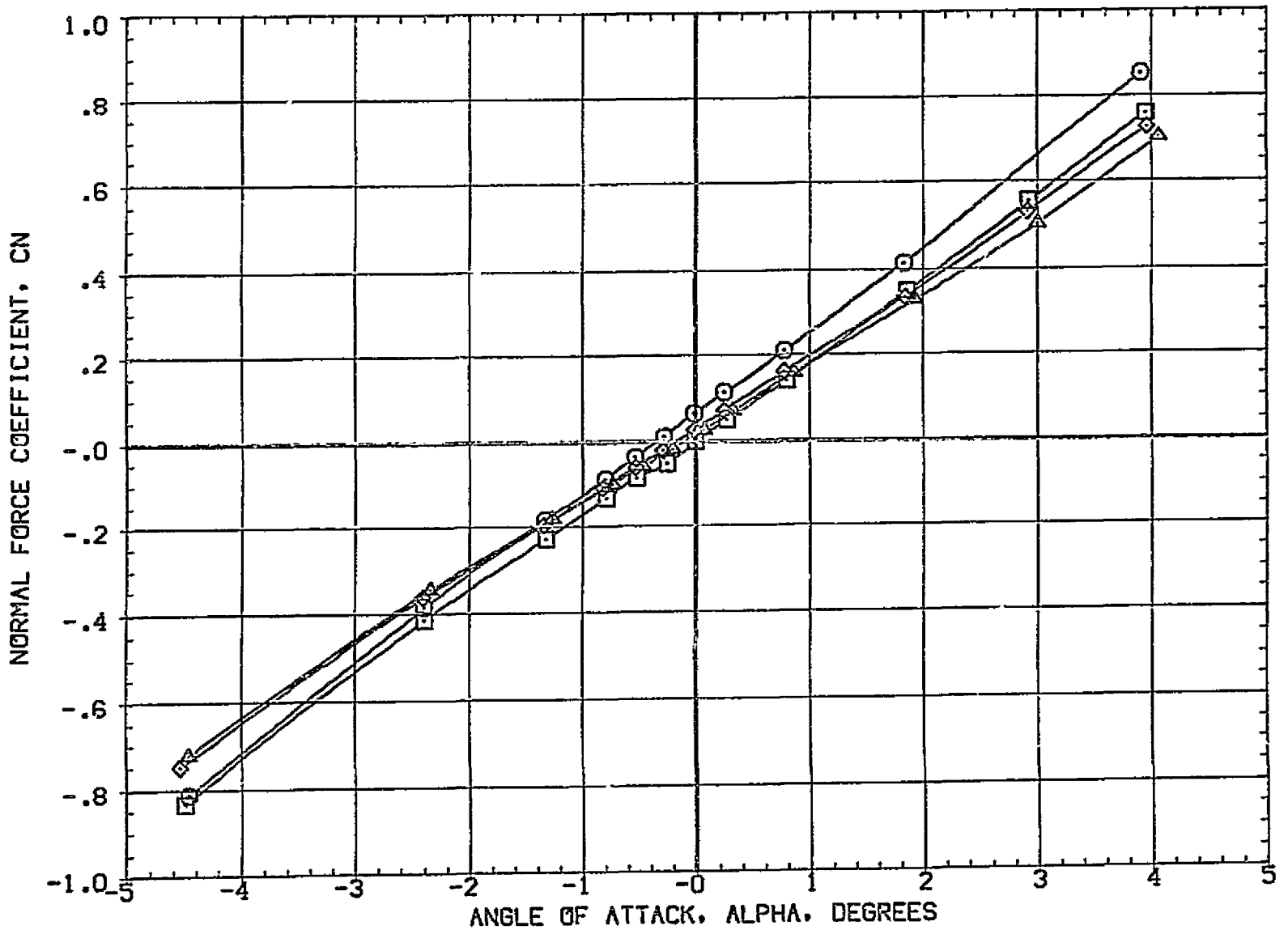
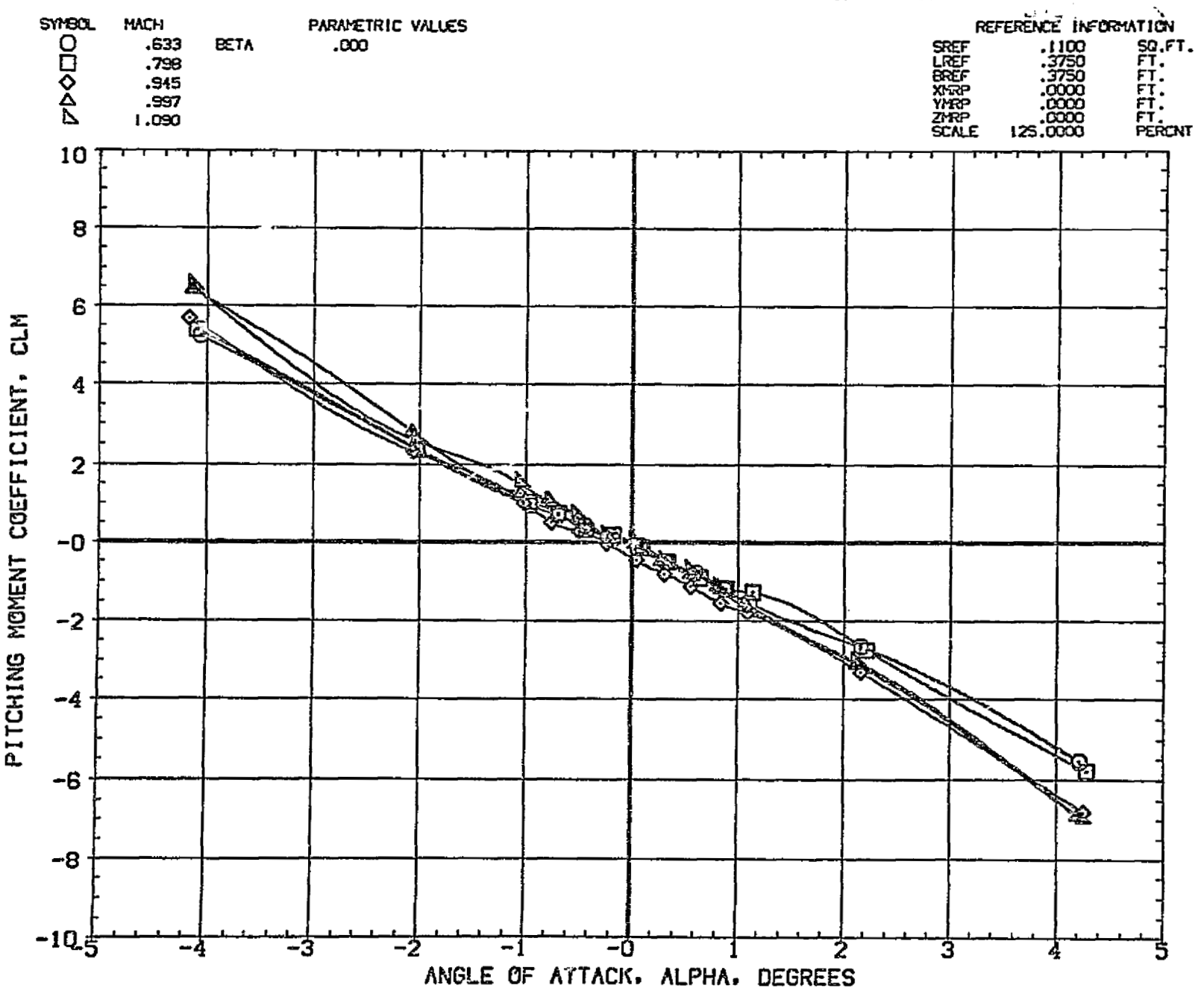
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



MACH NUMBER EFFECT - CONFIGURATION B2 F4 C



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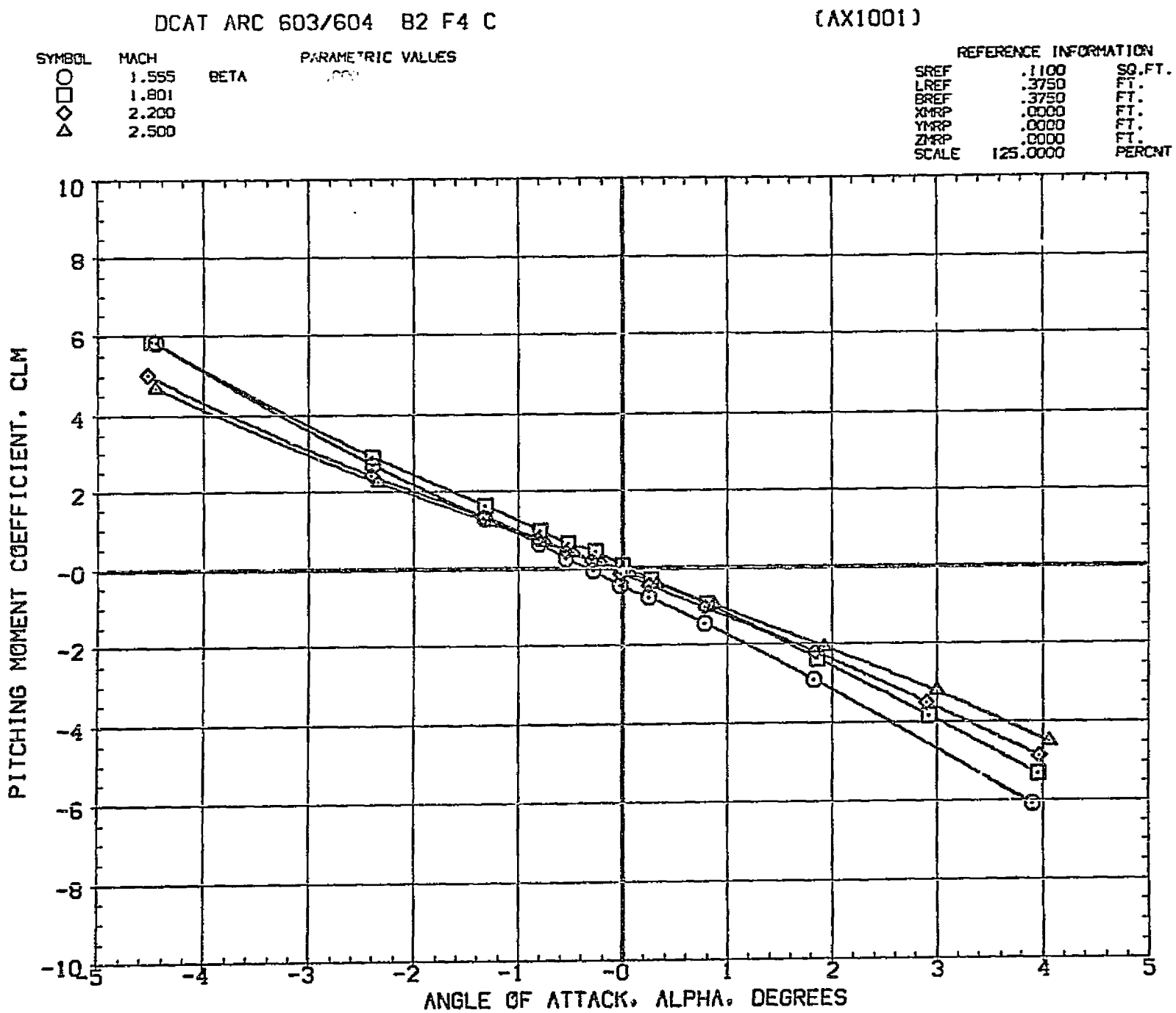

MACH NUMBER EFFECT - CONFIGURATION B2 F4 C

DCAT ARC 603/604 B2 F4 C (AX1001)

SYMBOL	MACH		PARAMETRIC VALUES
○	.633	BETA	.000
□	.798		
◇	.945		
△	.997		
▽	1.090		

REFERENCE INFORMATION

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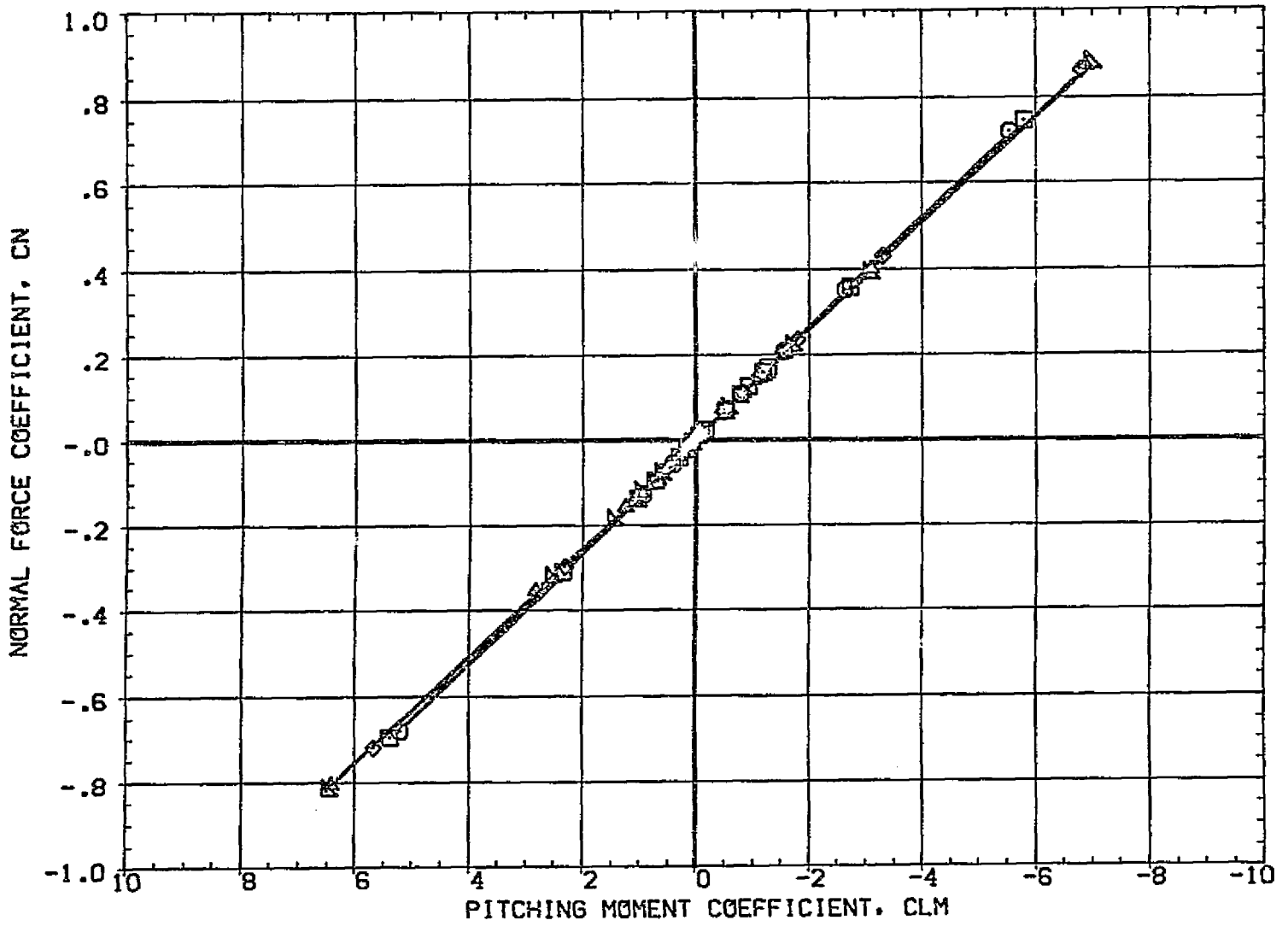
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



MACH NUMBER EFFECT - CONFIGURATION B2 F4 C

DCAT ARC 603/604 B2 F4 C [AX1001]

SYMBOL	MACH		PARAMETRIC VALUES
○	1.555	BETA	.000
□	1.801		
◇	2.200		
△	2.500		

REFERENCE INFORMATION

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BREF	.3750	FT.
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YMRP	.0000	FT.
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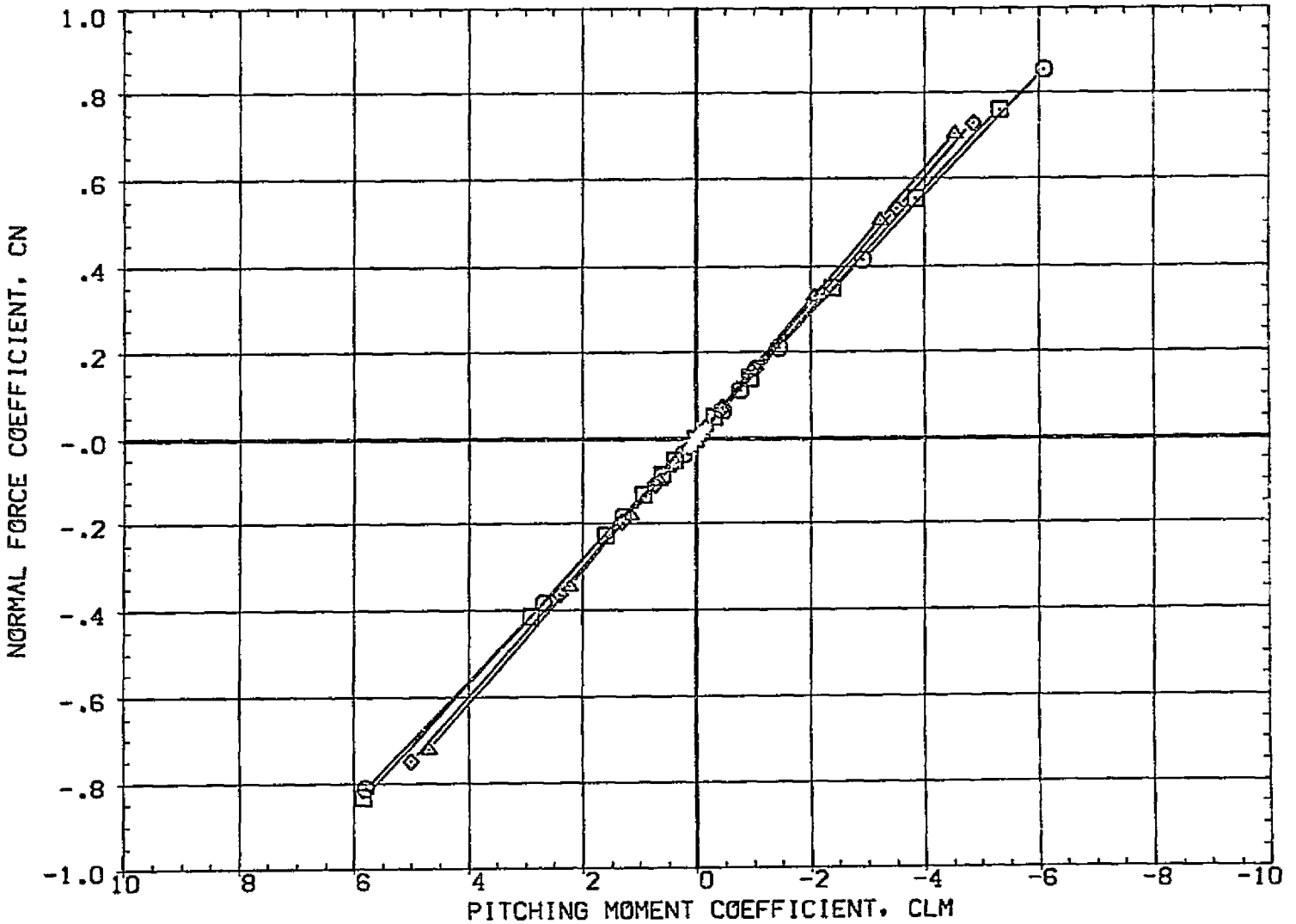
SCALE	125.0000	PERCNT



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DCAT ARC 603/604 B2 F4 C (AX1001)

SYMBOL MACH PARAMETRIC VALUES
○ .633 BETA .000
□ .798
◇ .945
△ .997
▽ 1.090

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
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BREF	.3750	FT.
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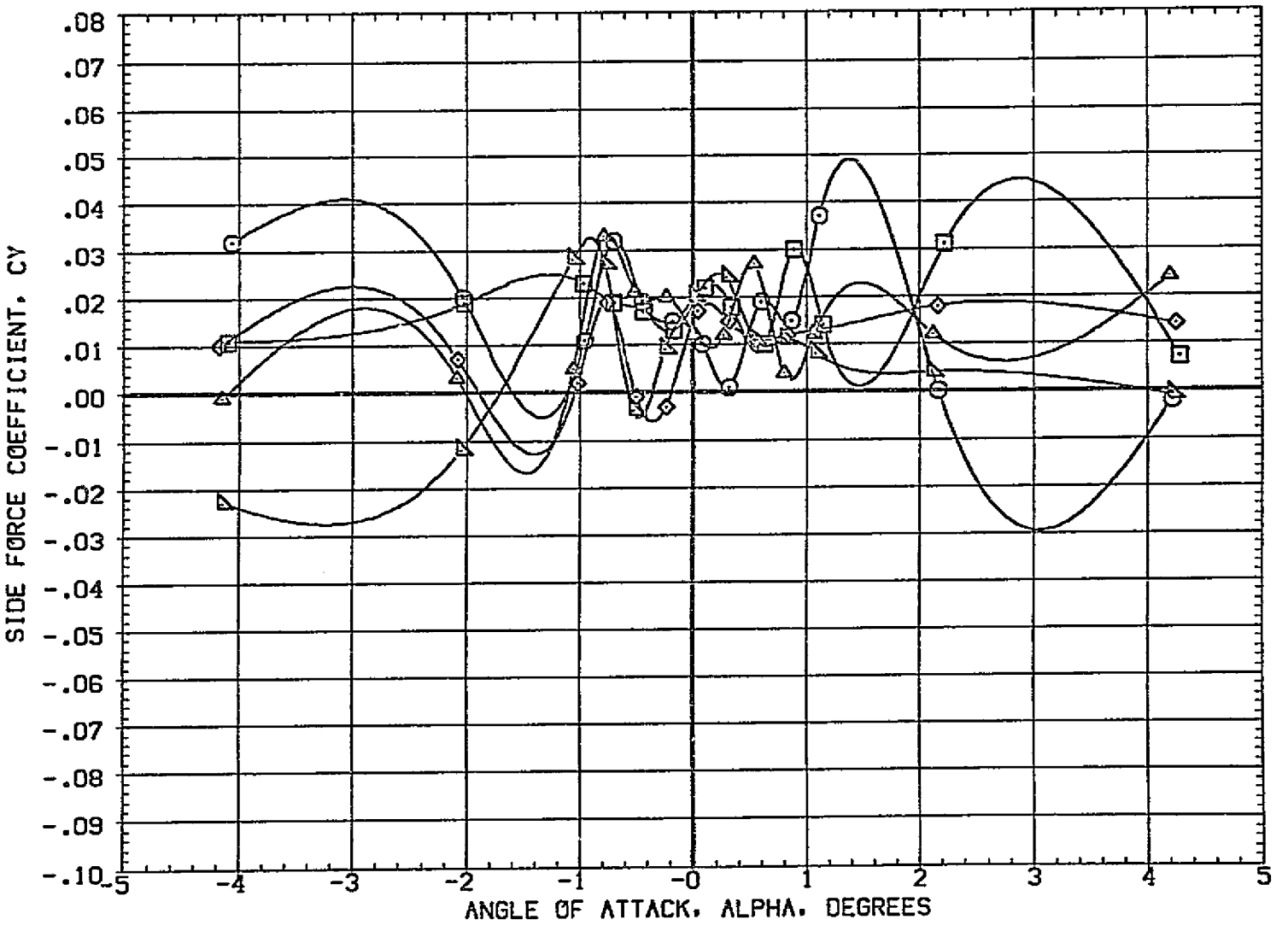
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



MACH NUMBER EFFECT - CONFIGURATION B2 F4 C

DCAT ARC 603/604 B2 F4 C (AX1001)

SYMBOL	MACH		PARAMETRIC VALUES
○	1.555	BETA	.000
□	1.801		
◇	2.200		
△	2.500		

REFERENCE INFORMATION

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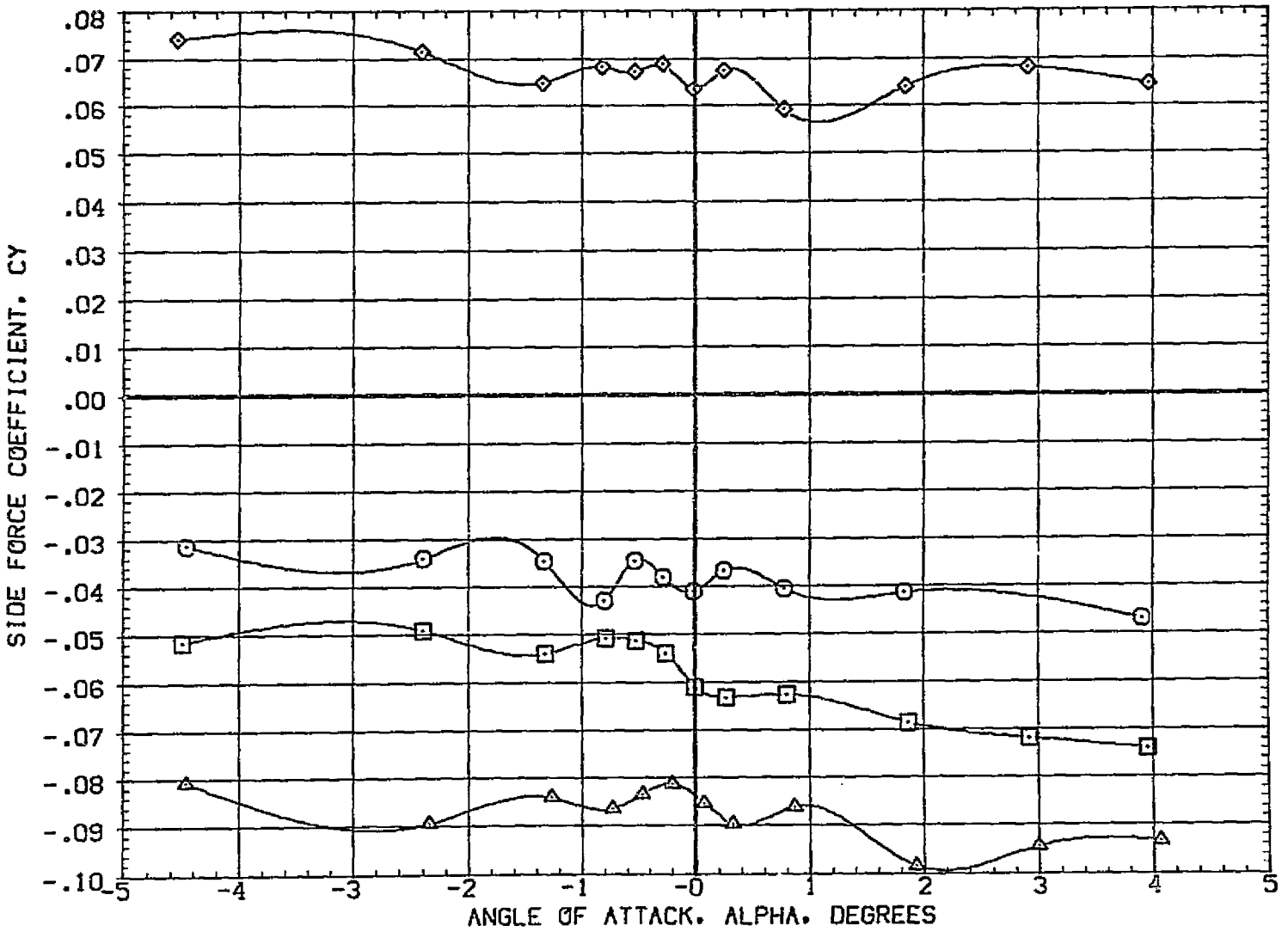
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

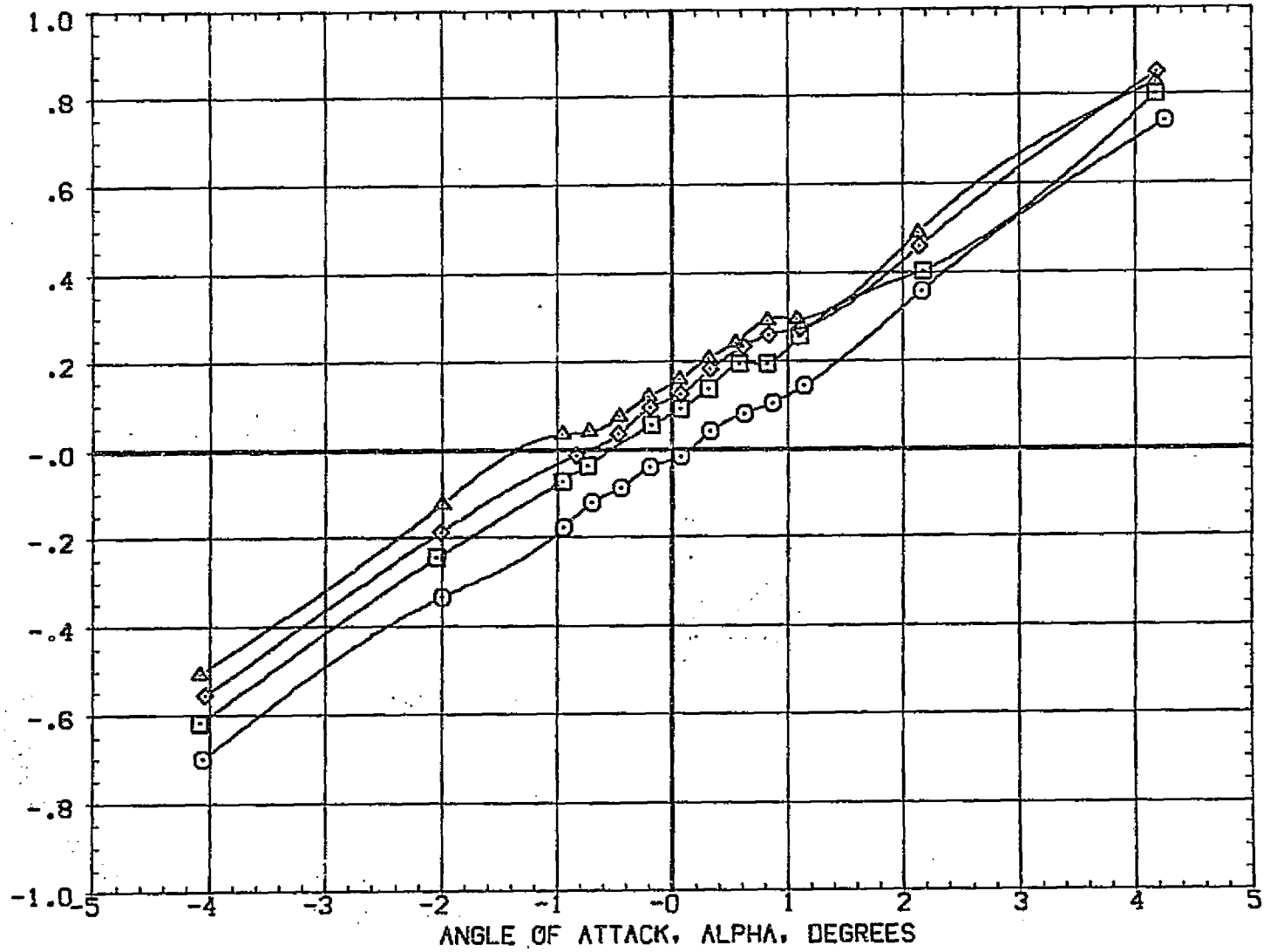


MACH NUMBER EFFECT - CONFIGURATION B2 F4 C

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	DCAT ARC 603/604 B2 F4 C
(BX1003)	□	DCAT ARC 603/604 B2 F4 C
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C
(BX1005)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



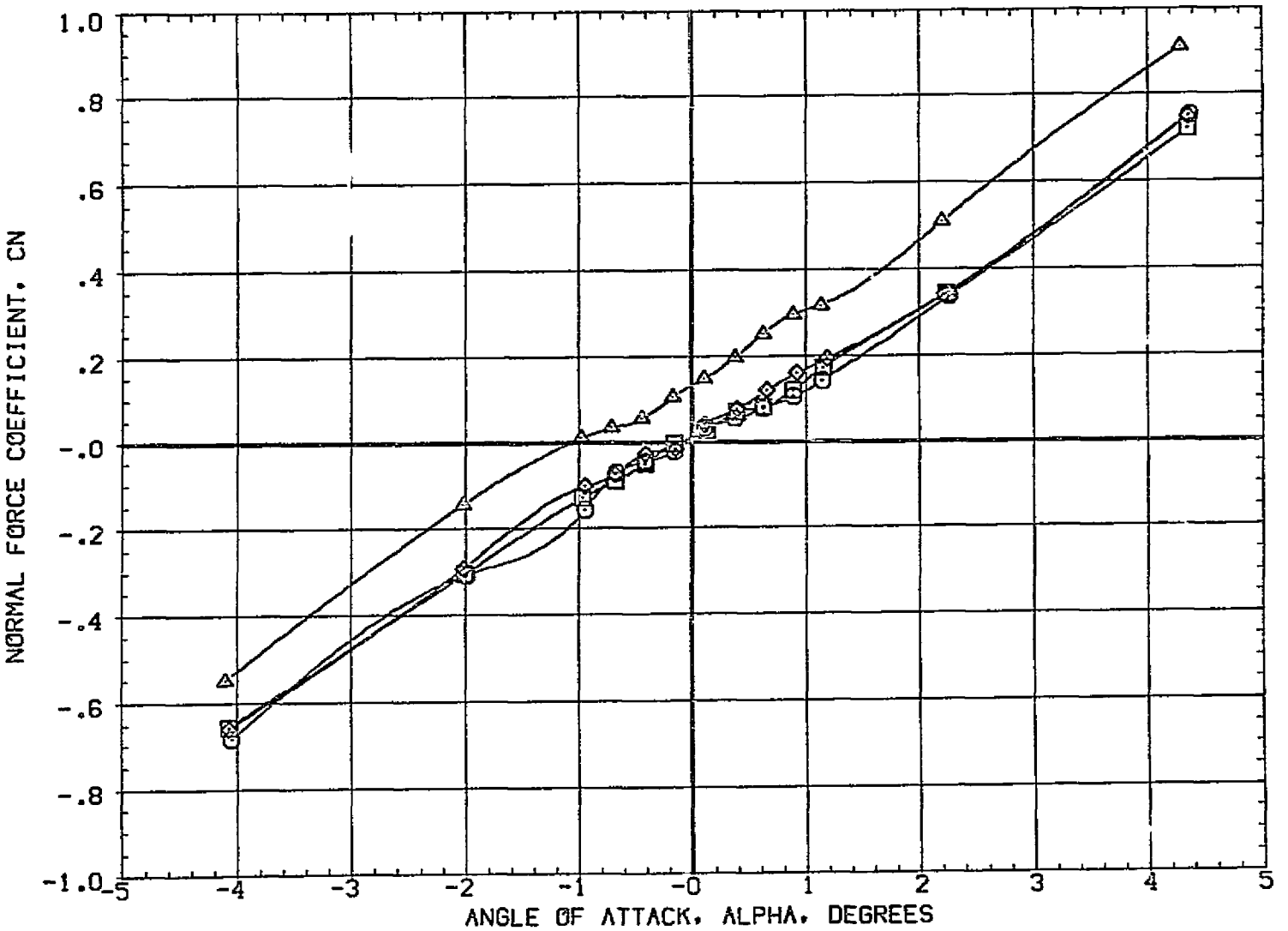
PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	DCAT ARC 603/604 B2 F4 C
(BX1003)	□	DCAT ARC 603/604 B2 F4 C
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C
(BX1005)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



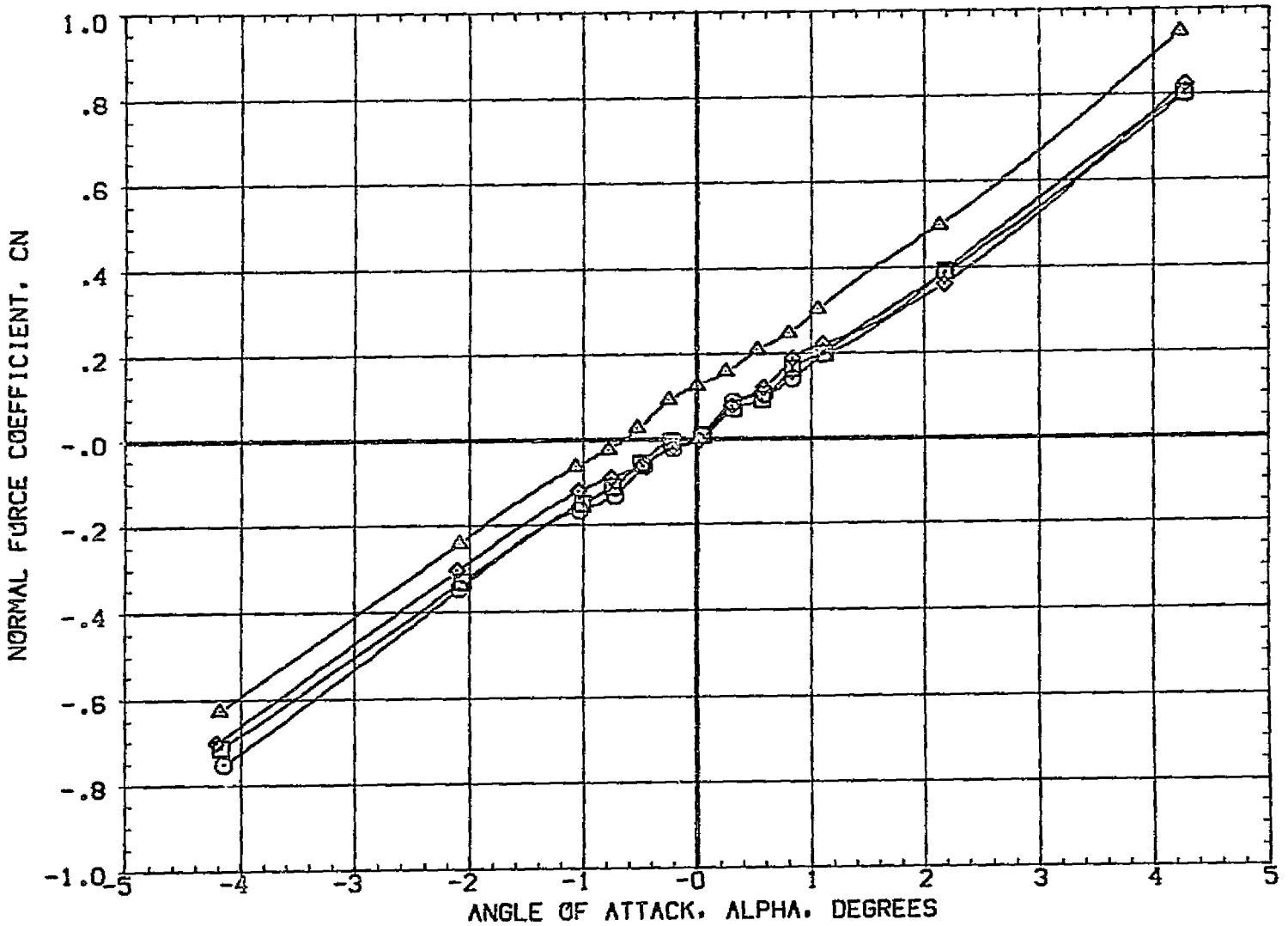
PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	□	DCAT ARC 603/604 B2 F4 C
(BX1003)	□	DCAT ARC 603/604 B2 F4 C
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C
(BX1005)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PDJ/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

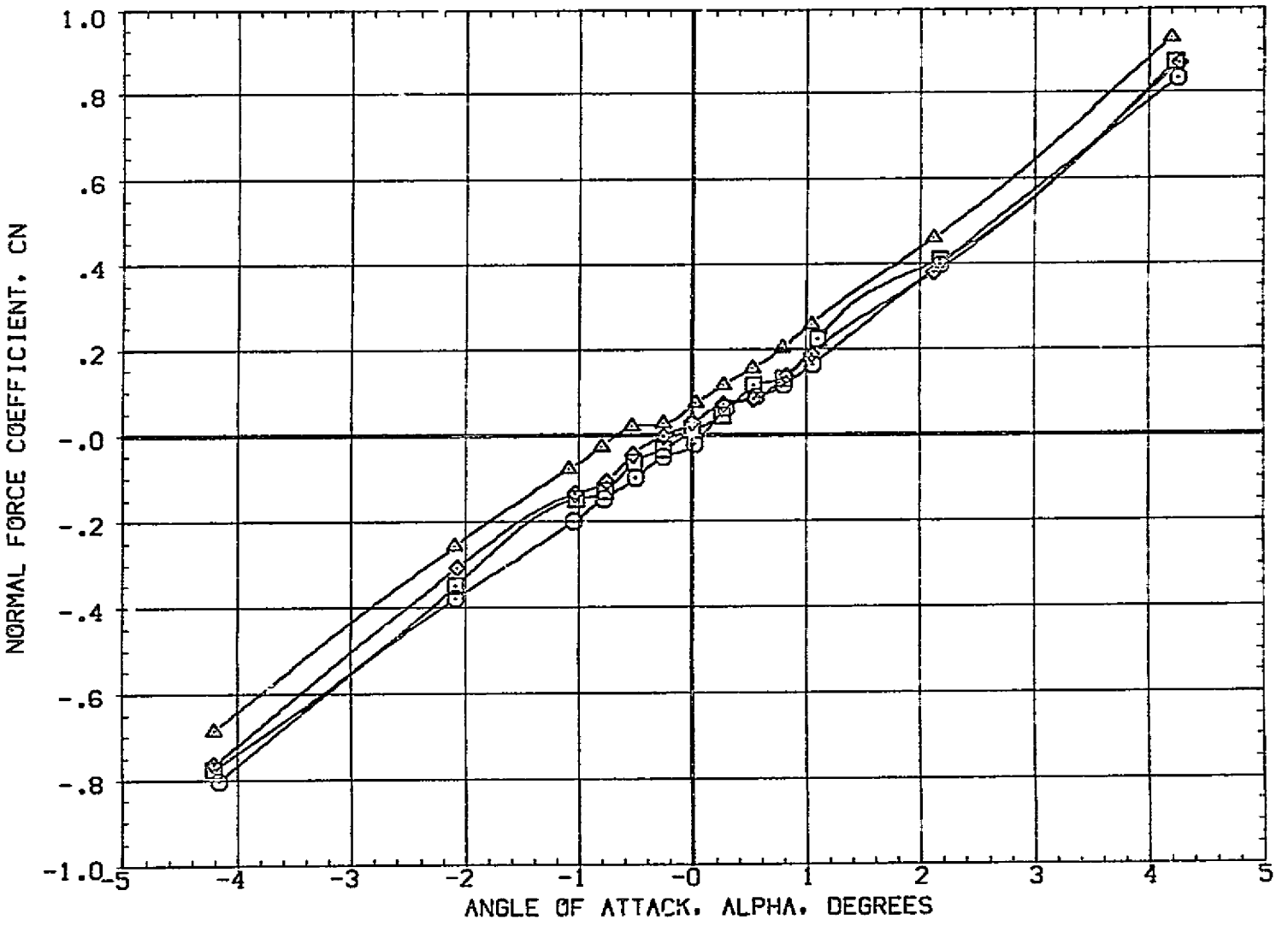


PITCH MODULATION EFFECT

(C)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	PCJ/PF
(BX1002)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	□	OCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000
(BX1004)	◇	OCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000
(BX1005)	△	OCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



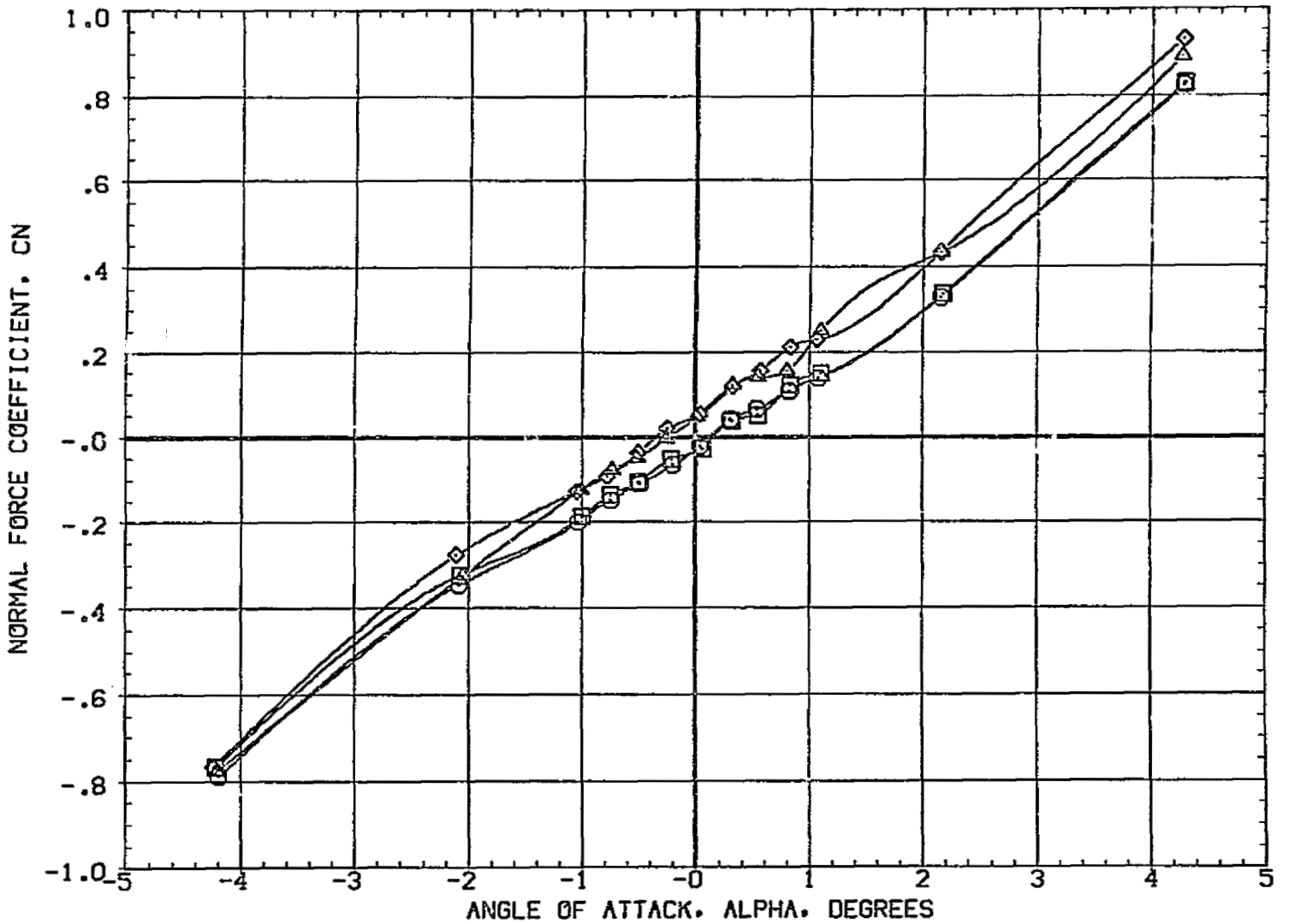
PITCH MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	□	DCAT ARC 603/604 B2 F4 C
(BX1003)	◇	DCAT ARC 603/604 B2 F4 C
(BX1004)	⊠	DCAT ARC 603/604 B2 F4 C
(BX1005)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

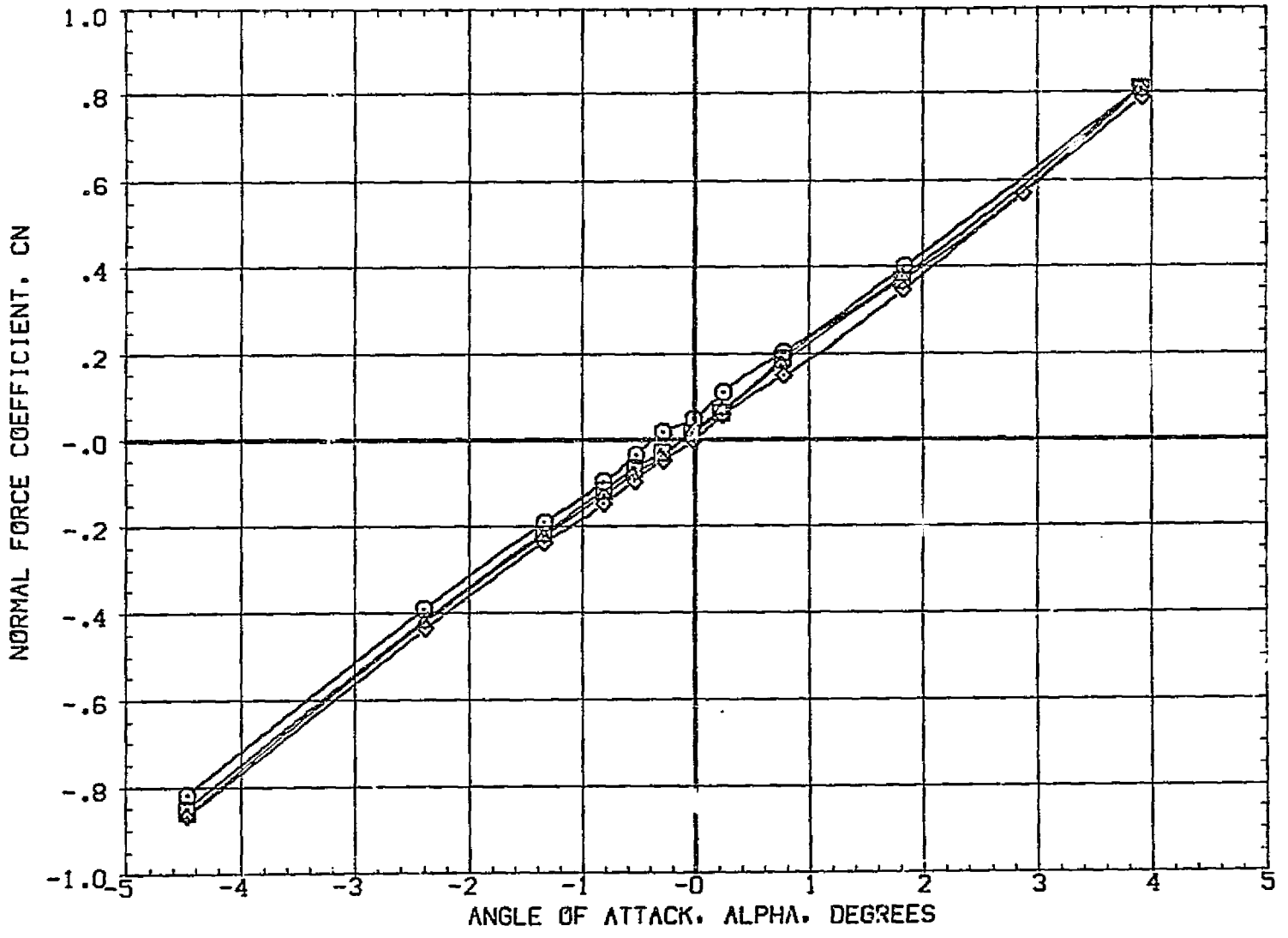


PITCH MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POS/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000
(6X1004)	◇	DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000
(BX1005)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



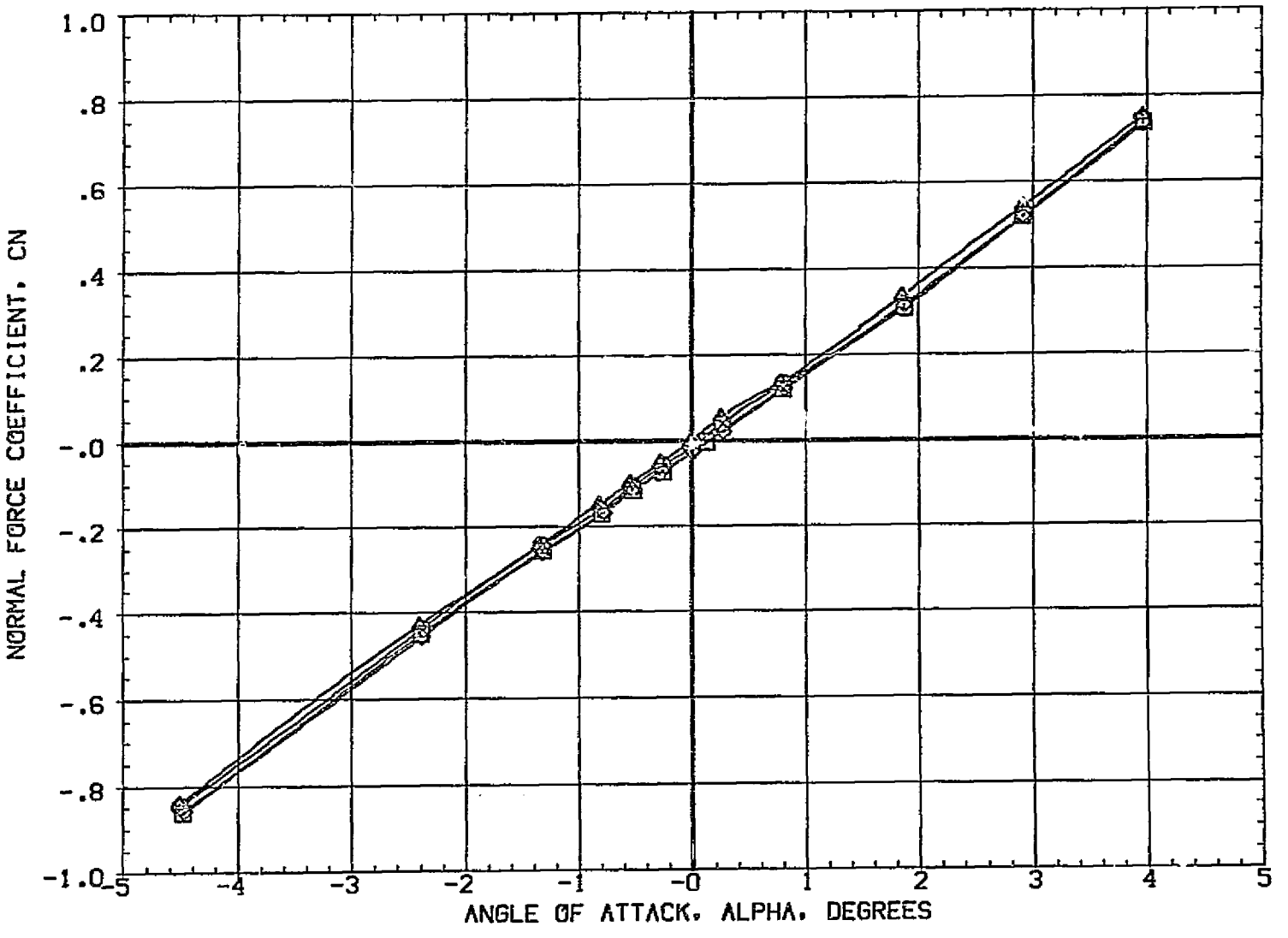
PITCH MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	OCAT ARC 603/604 B2 F4 C
(BX1003)	□	OCAT ARC 603/604 B2 F4 C
(BX1004)	⋈	OCAT ARC 603/604 B2 F4 C
(BX1005)	△	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



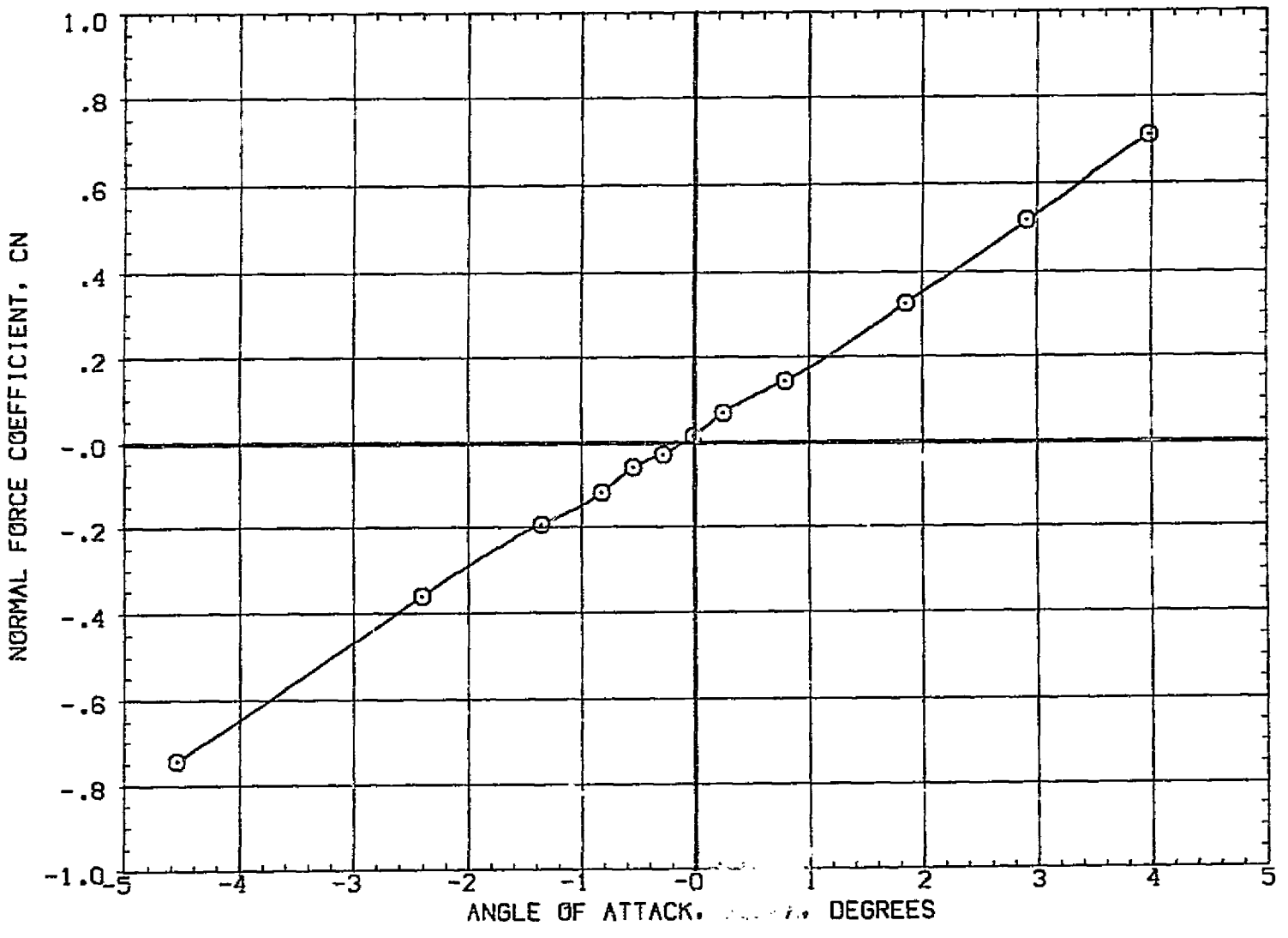
PITCH MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	OCAT ARC 603/604 B2 F4 C
(BX1003)	□	DATA NOT AVAILABLE
(BX1004)	◇	DATA NOT AVAILABLE
(BX1005)	△	DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	POL/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



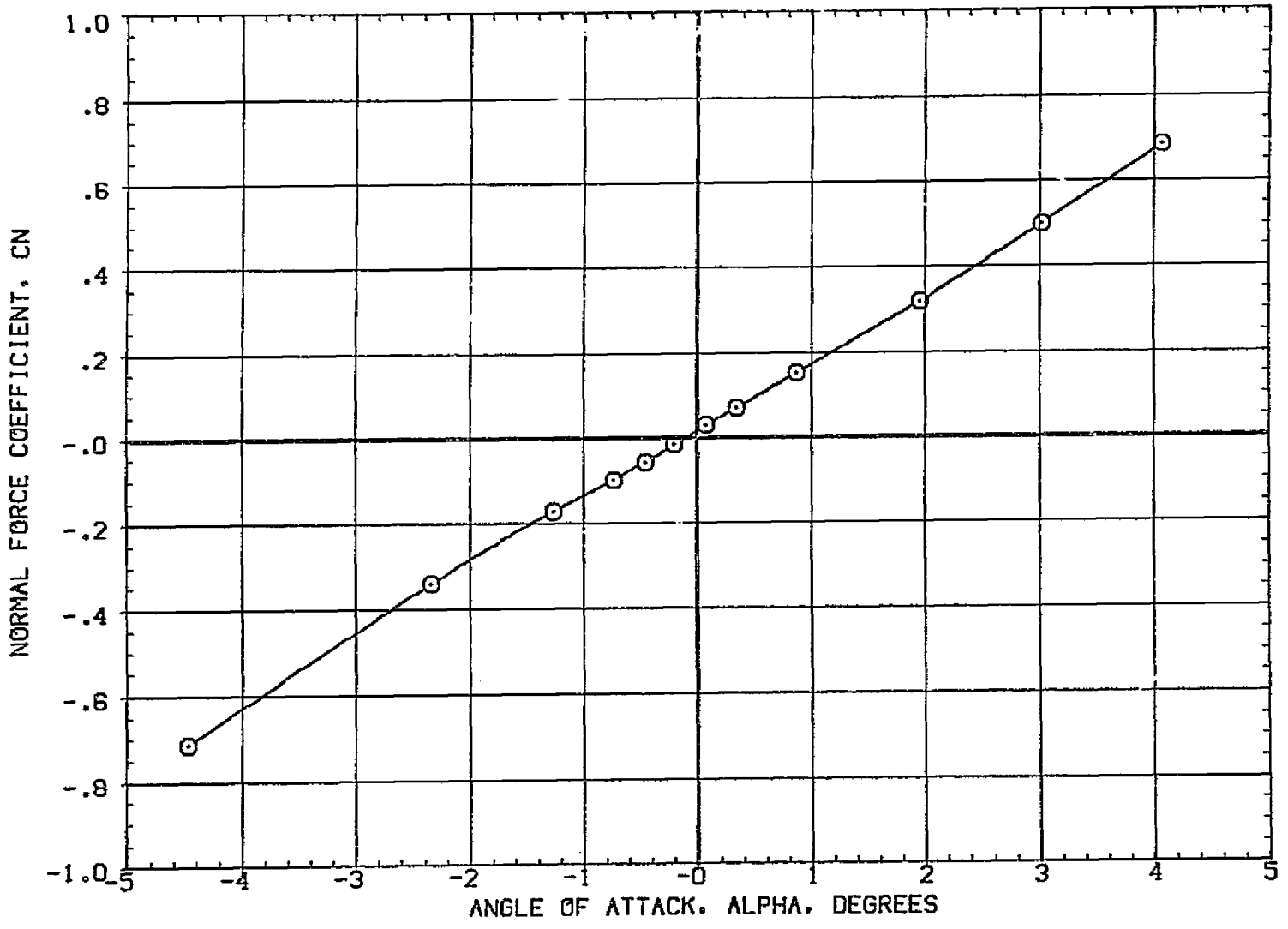
PITCH MODULATION EFFECT

CH)MACH = 2.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	DCAT ARC 603/604 B2 F4 C
(BX1003)	□	DATA NOT AVAILABLE
(BX1004)	◇	DATA NOT AVAILABLE
(BX1005)	△	DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

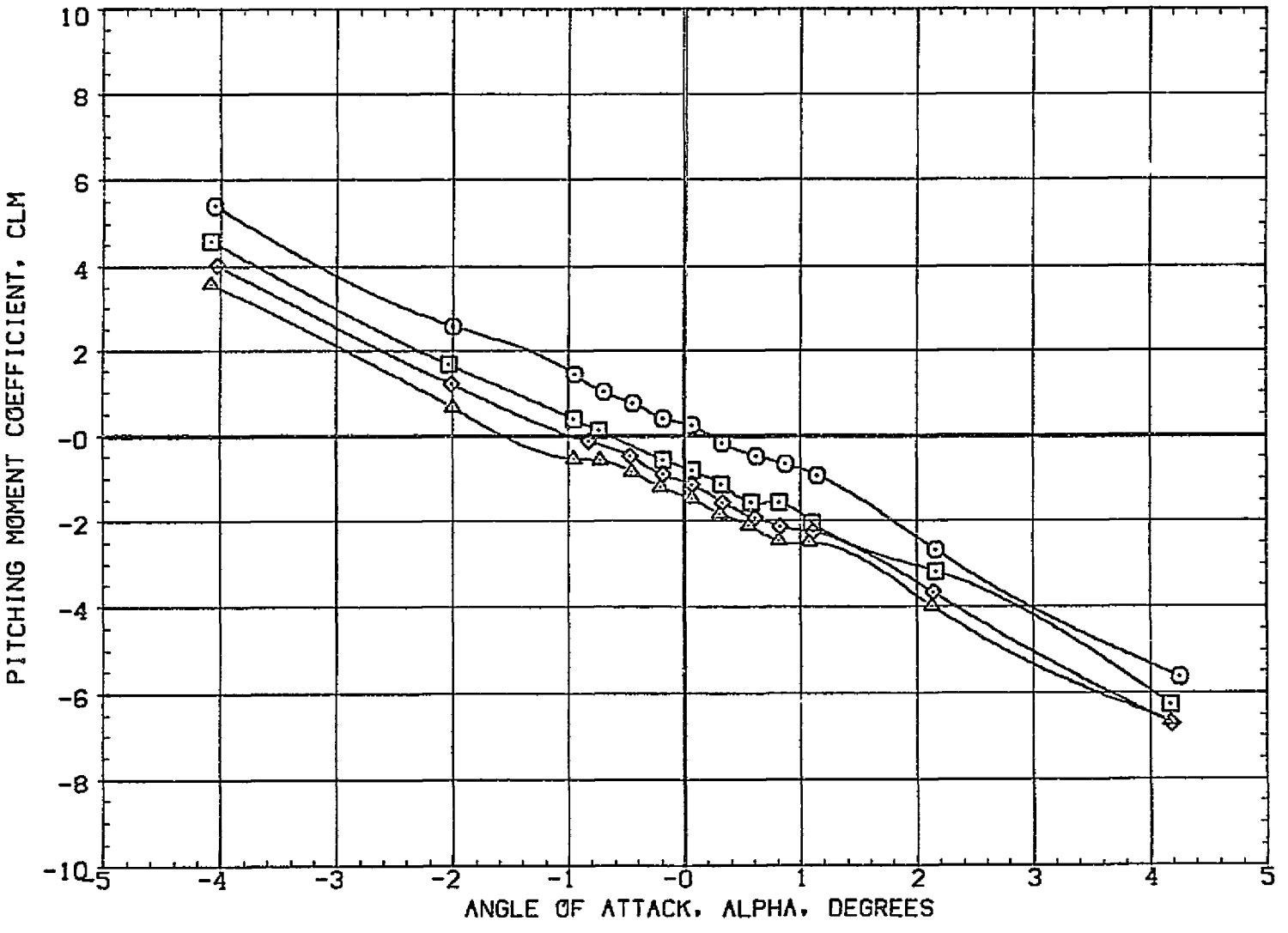


PITCH MODULATION EFFECT

(D)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	□	OCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000
(BX1004)	◇	OCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000
(BX1005)	△	OCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

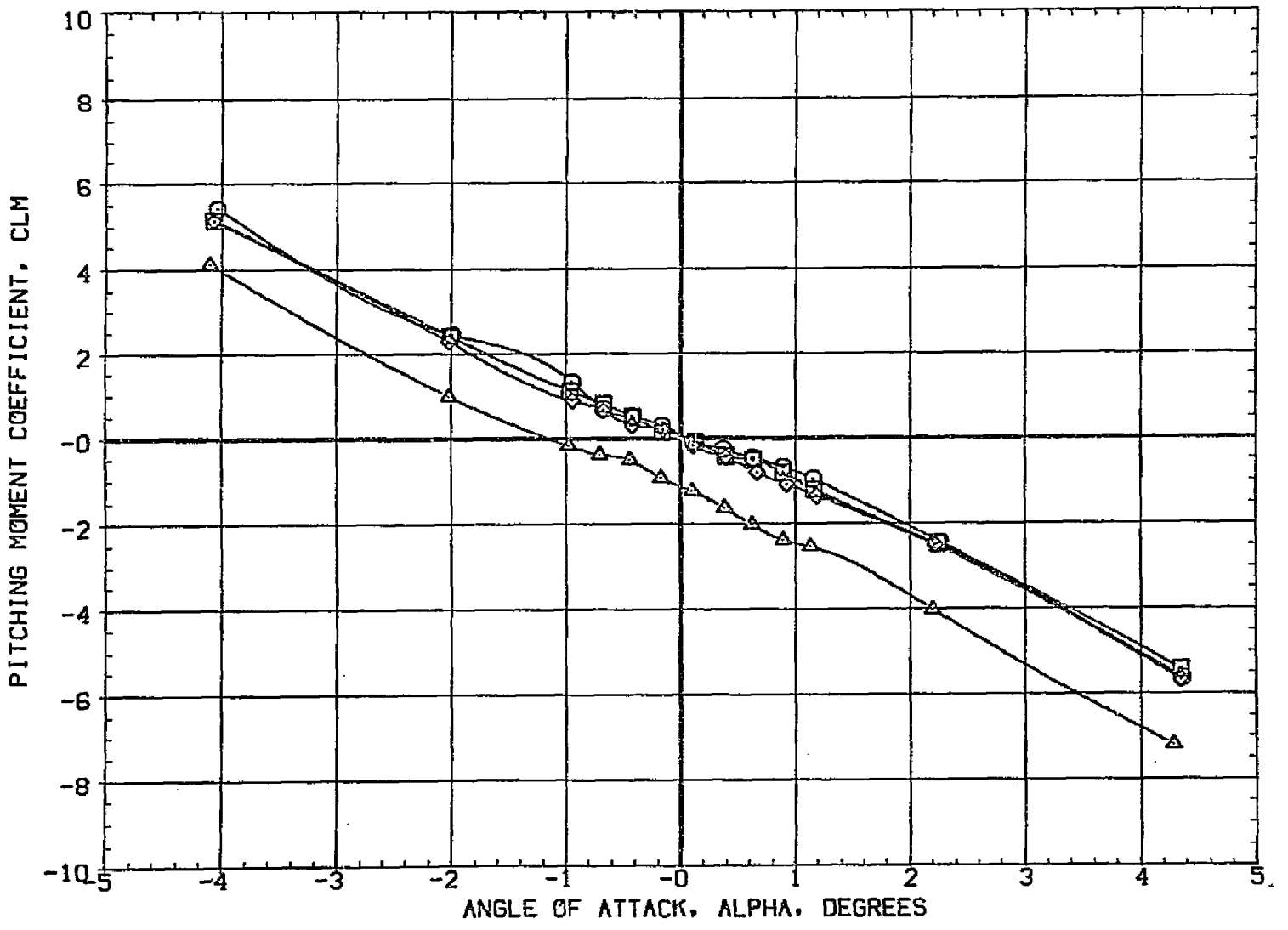


PITCH MODULATION EFFECT

RAJMACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)		DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)		DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000
(BX1004)		DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000
(BX1005)		DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



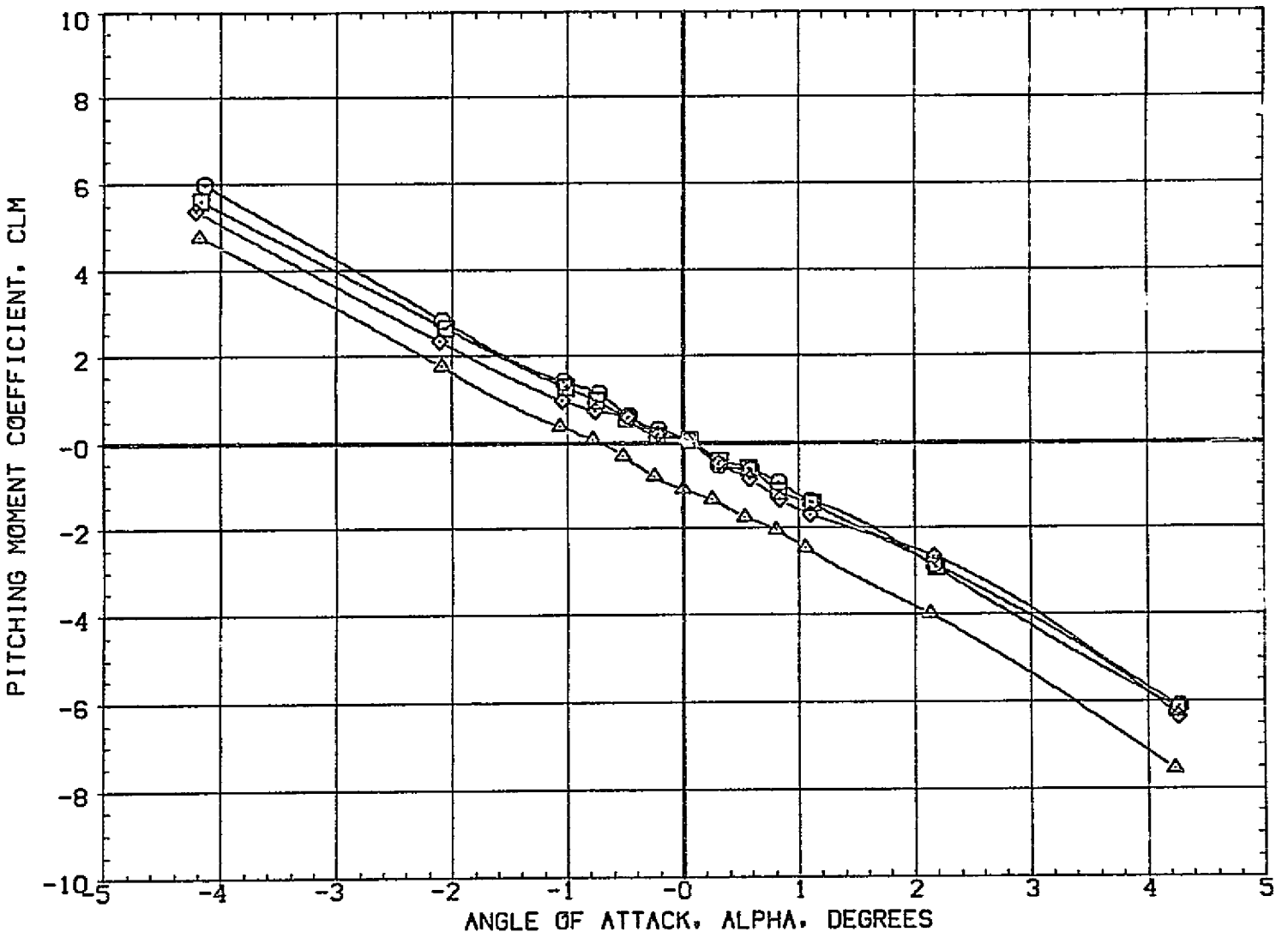
PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	□	DCAT ARC 603/604 B2 F4 C
(BX1003)	◇	DCAT ARC 603/604 B2 F4 C
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C
(BX1005)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

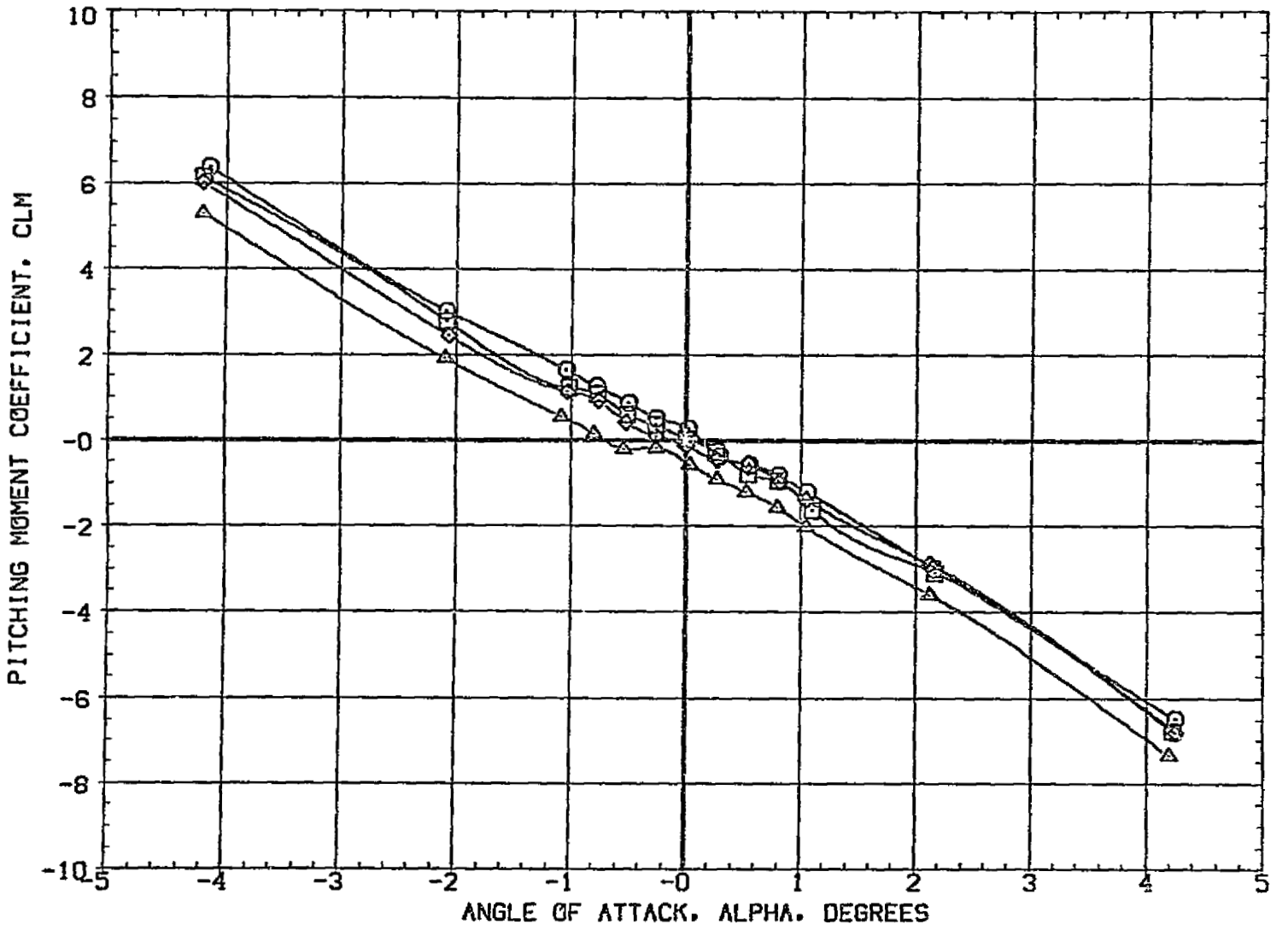
REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000
(BX1005)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

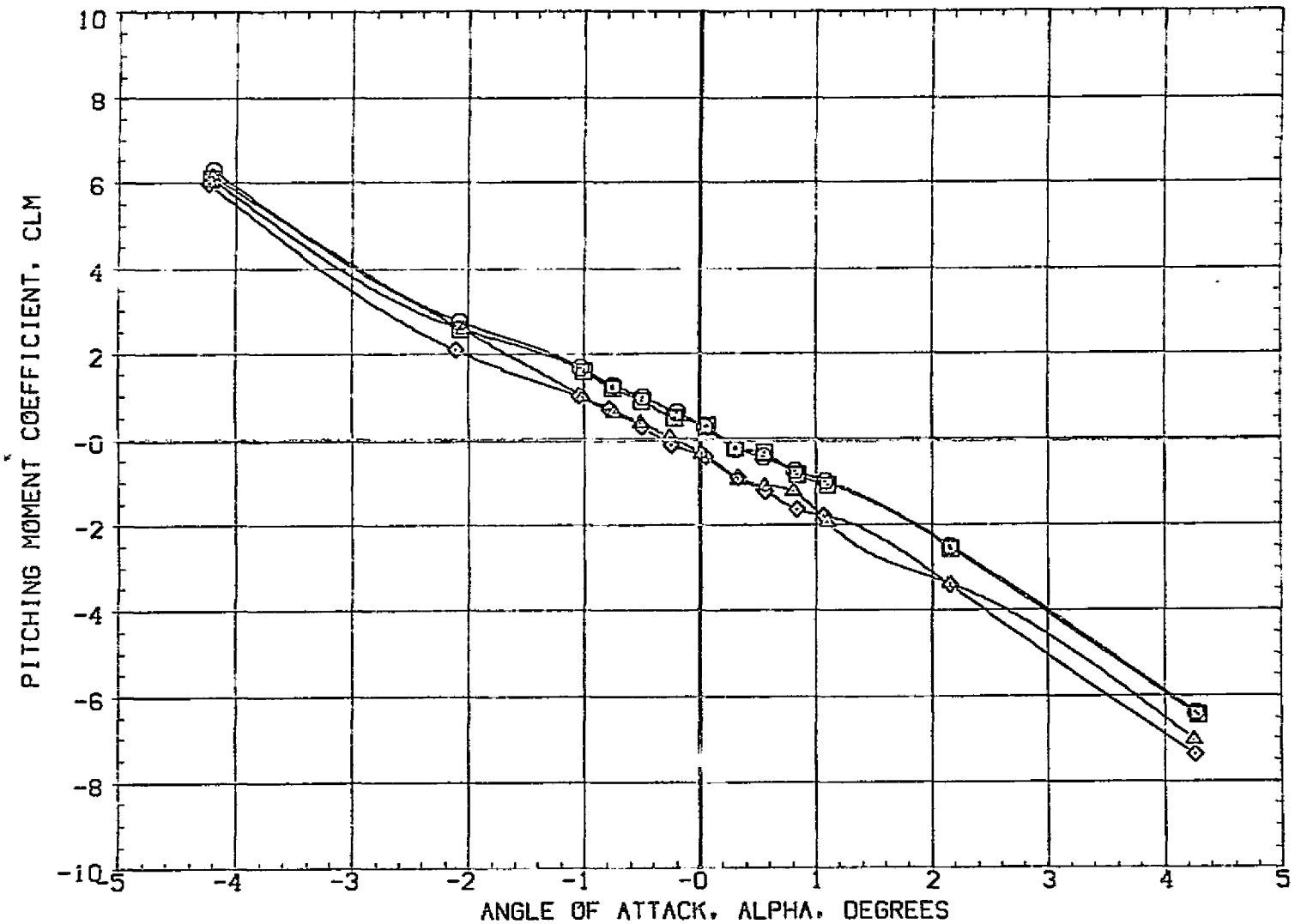


PITCH MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	⊠	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000
(BX1005)	△	DCAT ARC 603/604 B2 F4 C				

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

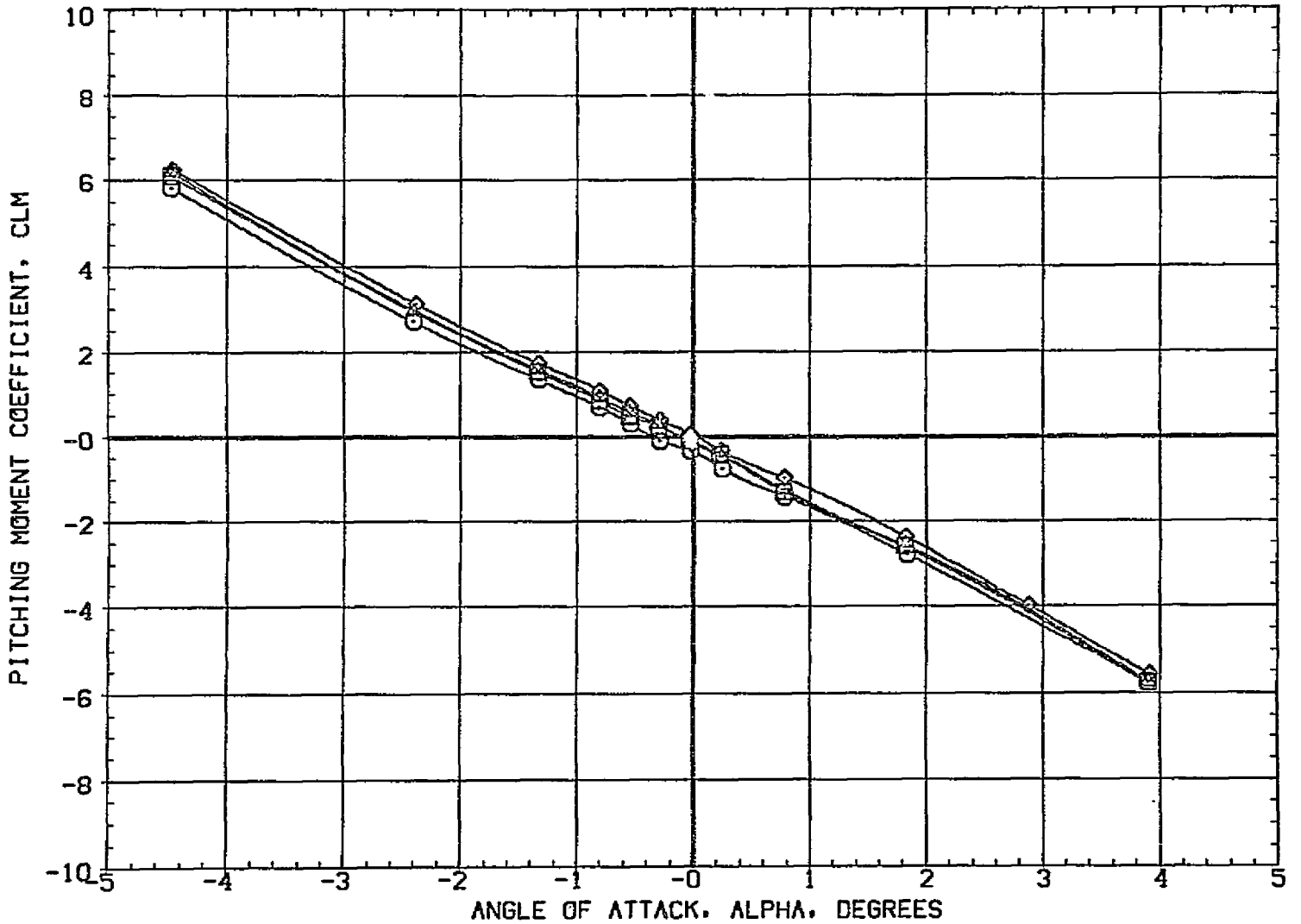


PITCH MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POL/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	85.000
(BX1003)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	85.000
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	85.000
(BX1005)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



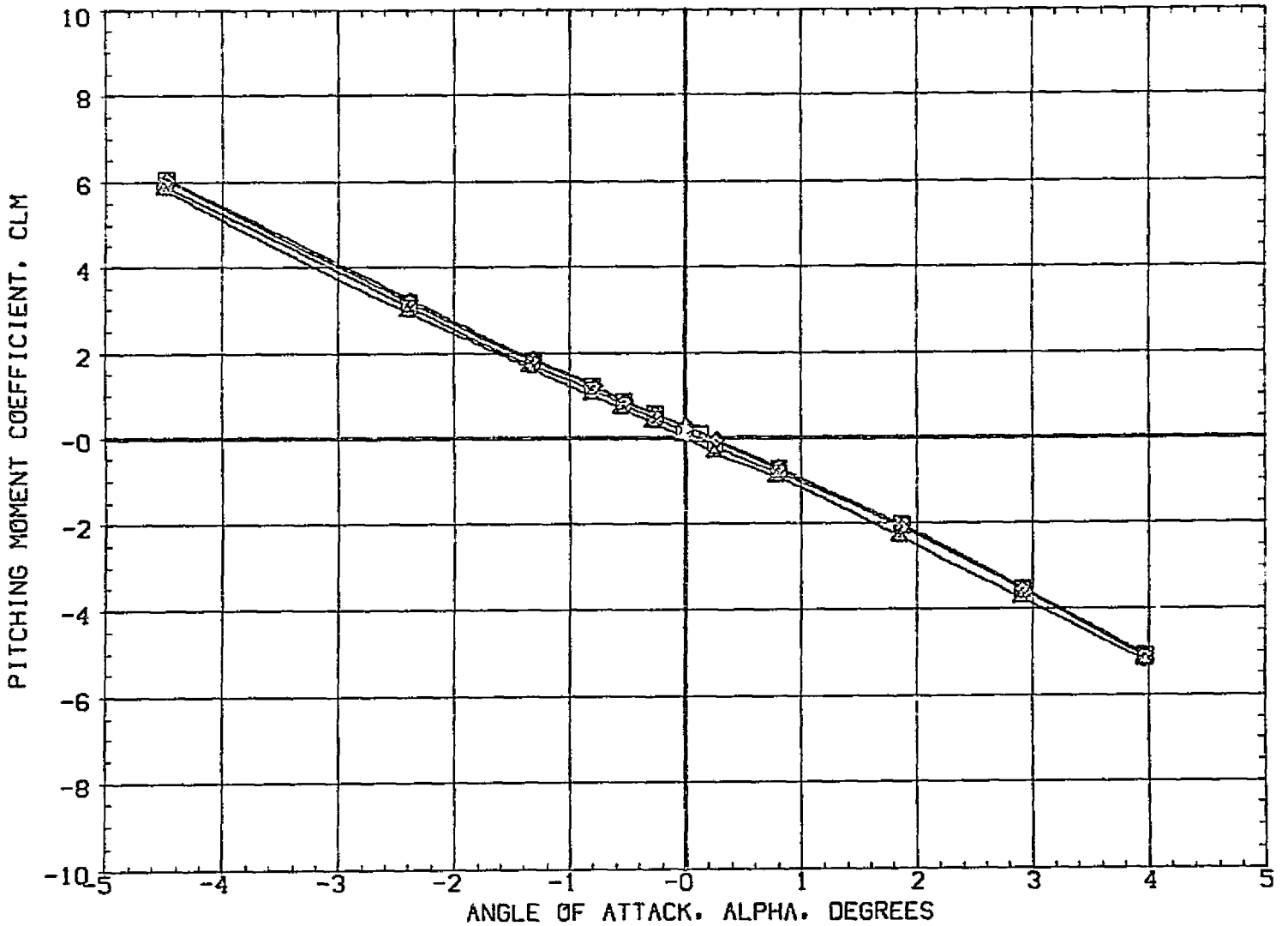
PITCH MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	DCAT ARC 603/604 82 F4 C
(BX1003)	□	DCAT ARC 603/604 82 F4 C
(BX1004)	◇	DCAT ARC 603/604 82 F4 C
(BX1005)	△	DCAT ARC 603/604 82 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

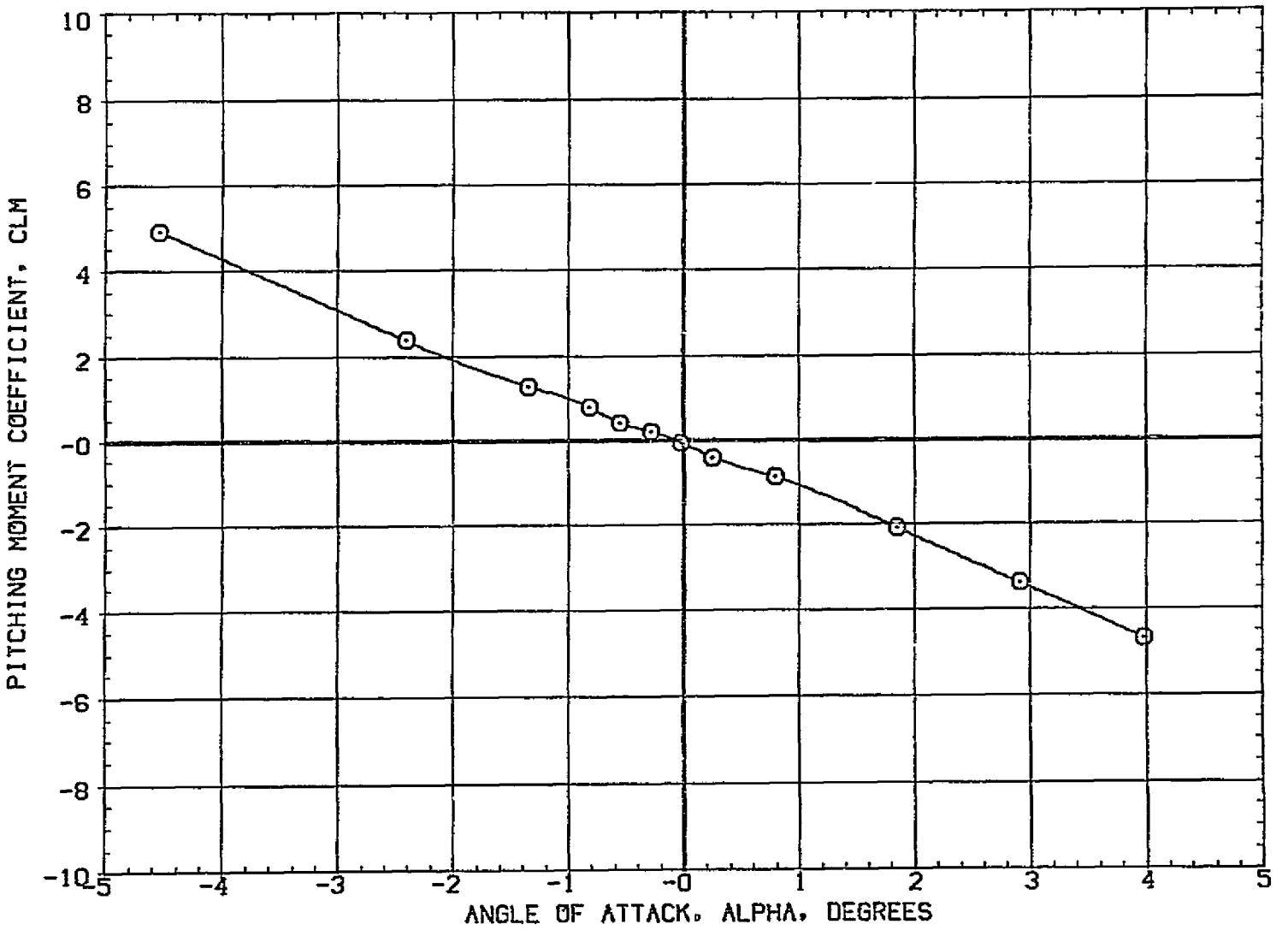
REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POL/PF
(BX1002)		DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)		DATA NOT AVAILABLE	.000	40.000	.000	86.000
(BX1004)		DATA NOT AVAILABLE	.000	60.000	.000	86.000
(BX1005)		DATA NOT AVAILABLE	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCENT

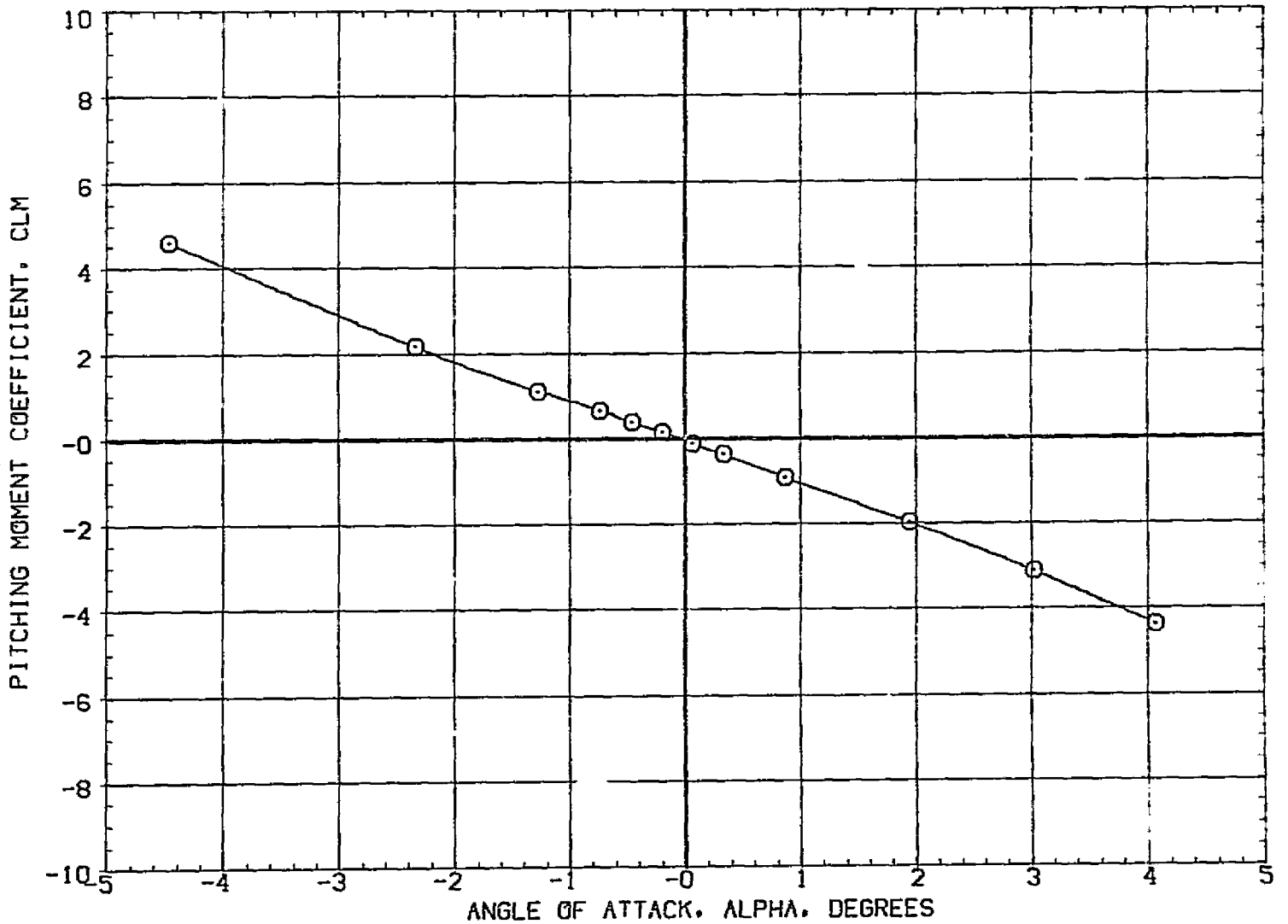


PITCH MODULATION EFFECT

(H)MACH = 2.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POL/PF
(BX1002)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	□	DATA NOT AVAILABLE	.000	40.000	.000	86.000
(BX1004)	⋈	DATA NOT AVAILABLE	.000	60.000	.000	86.000
(BX1005)	△	DATA NOT AVAILABLE	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



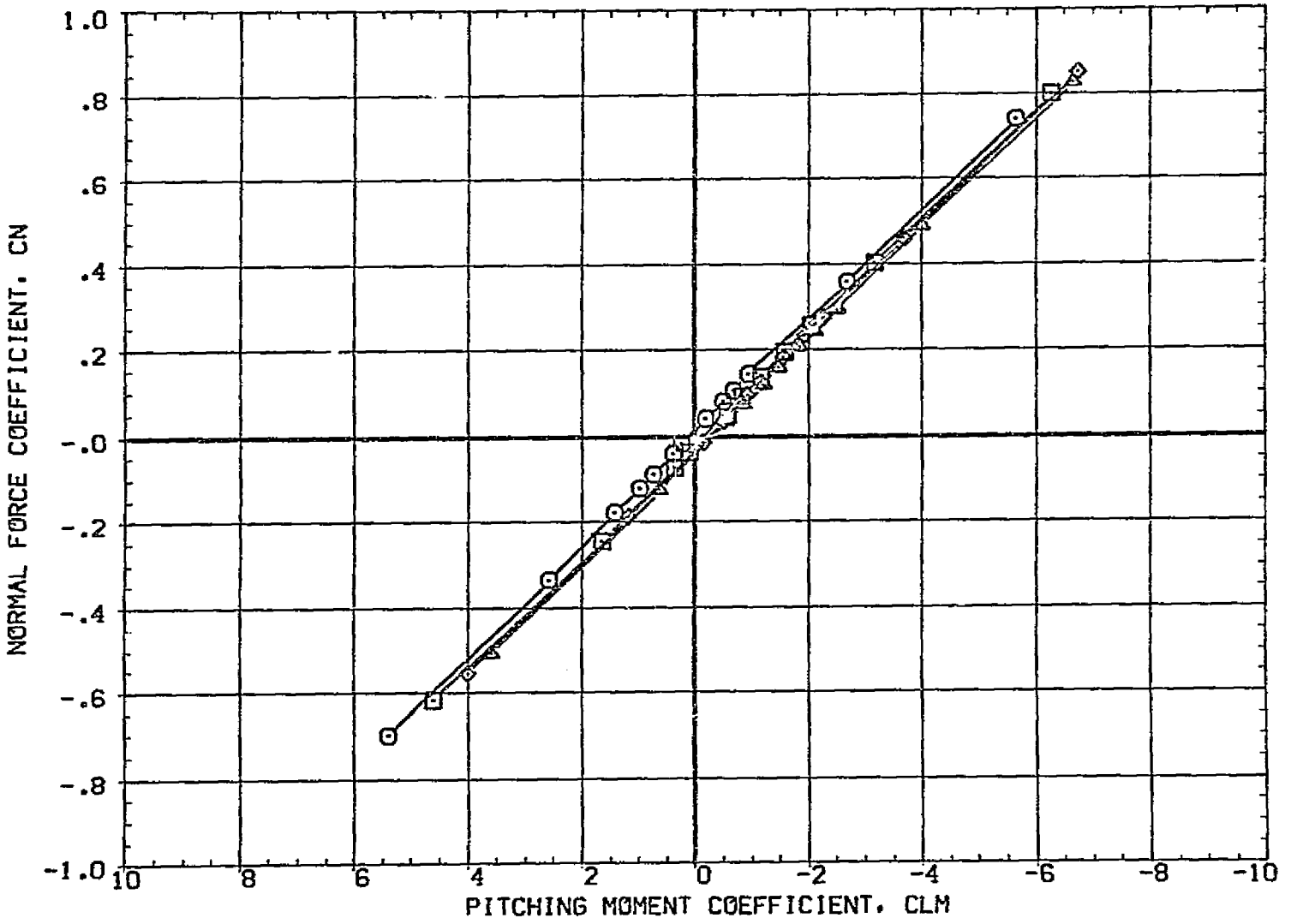
PITCH MODULATION EFFECT

(I)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	DCAT ARC 603/604 B2 F4 C
(BX1003)	□	DCAT ARC 603/604 B2 F4 C
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C
(BX1005)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	85.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



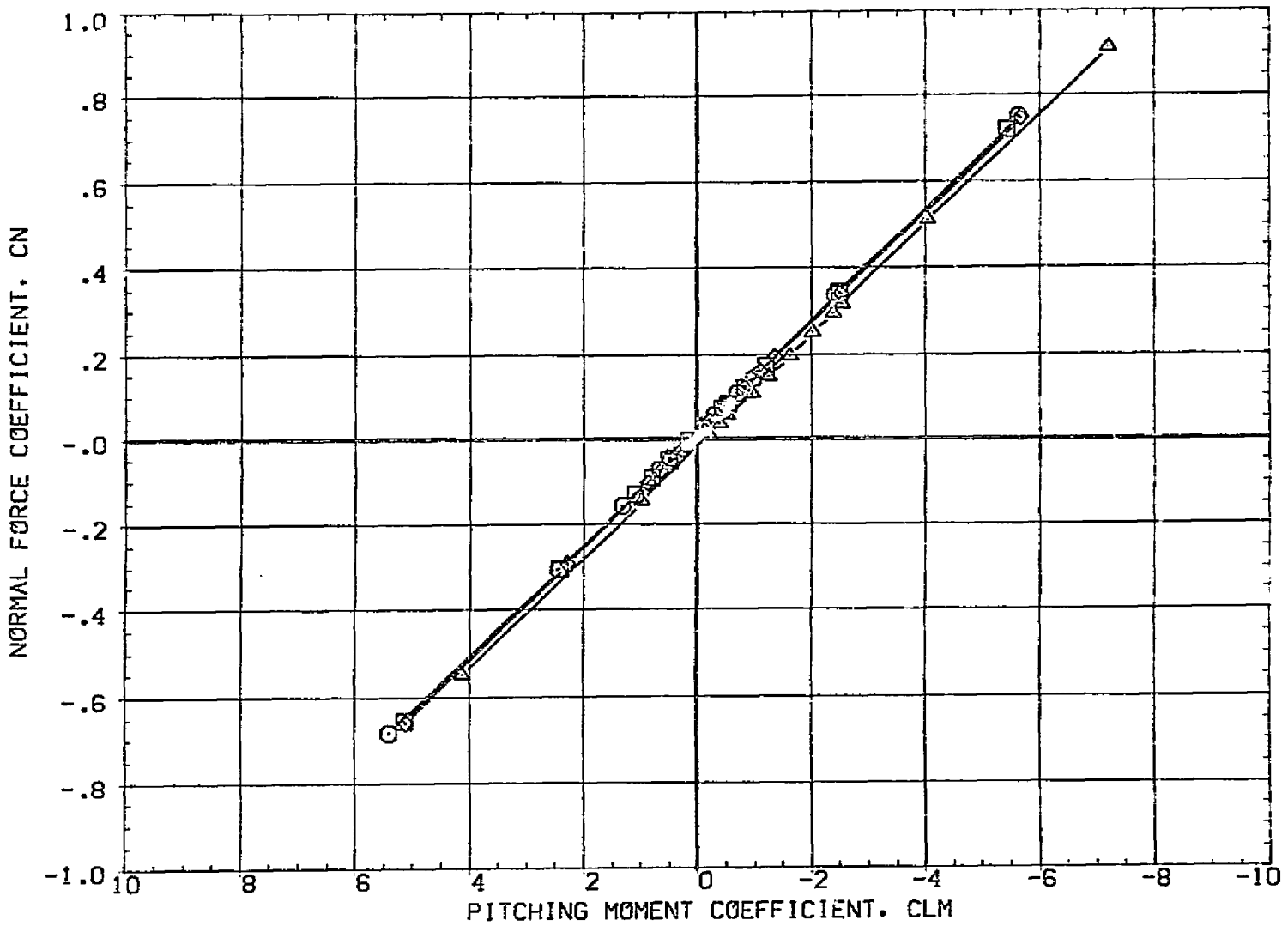
PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	▢	DCAT ARC 603/604 B2 F4 C
(BX1003)	□	DCAT ARC 603/604 B2 F4 C
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C
(BX1005)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POL/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

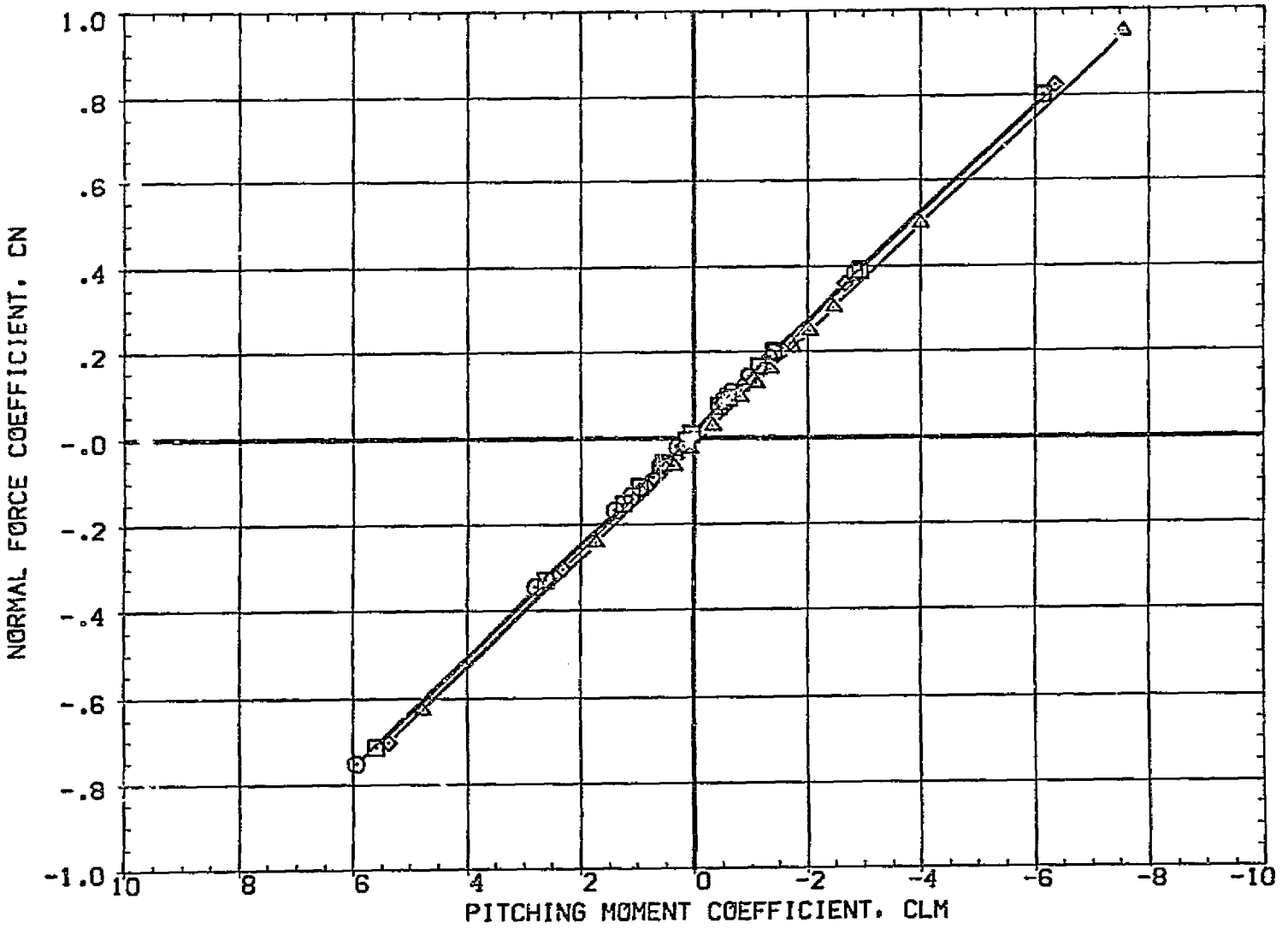


PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	◇	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000
(BX1005)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

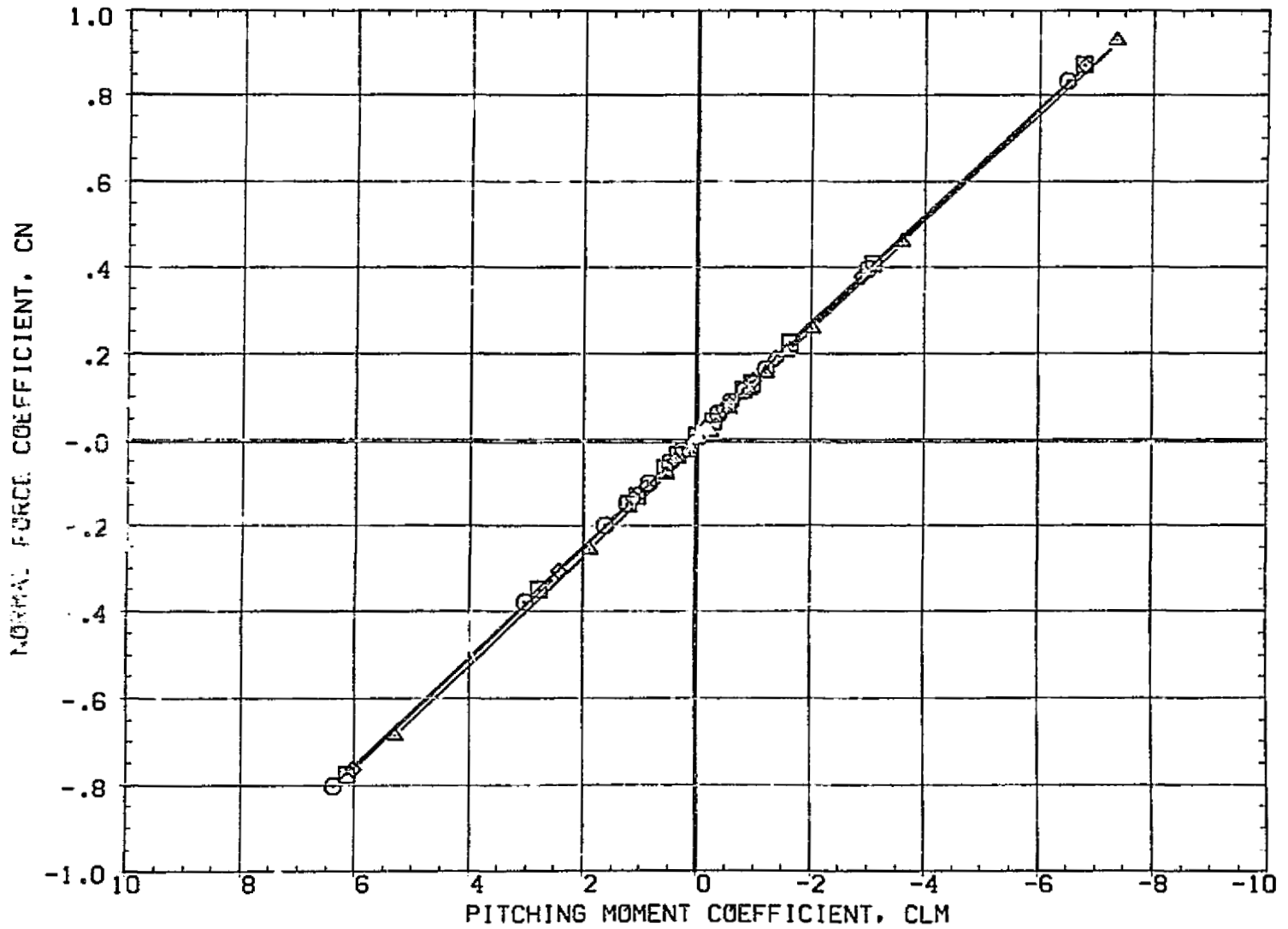


PITCH MODULATION EFFECT

(C)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1002)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	□	OCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000
(BX1004)	◇	OCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000
(BX1005)	△	OCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

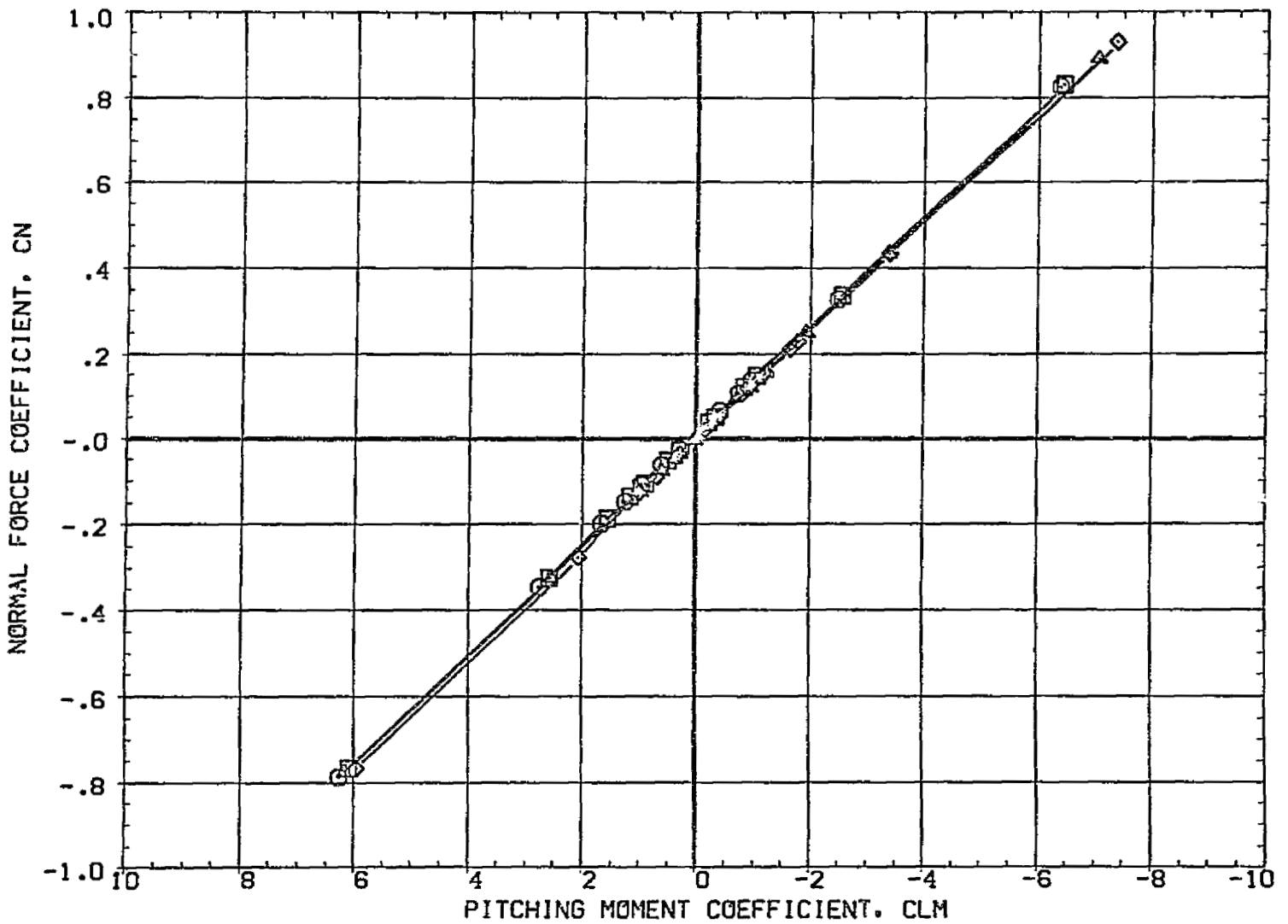


PITCH MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1002)	○	DCAT ARC 603/604 82 F4 C	.000	.000	.000	86.000
(BX1003)	□	DCAT ARC 603/604 82 F4 C	.000	40.000	.000	86.000
(BX1004)	◇	DCAT ARC 603/604 82 F4 C	.000	60.000	.000	86.000
(BX1005)	△	DCAT ARC 603/604 82 F4 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

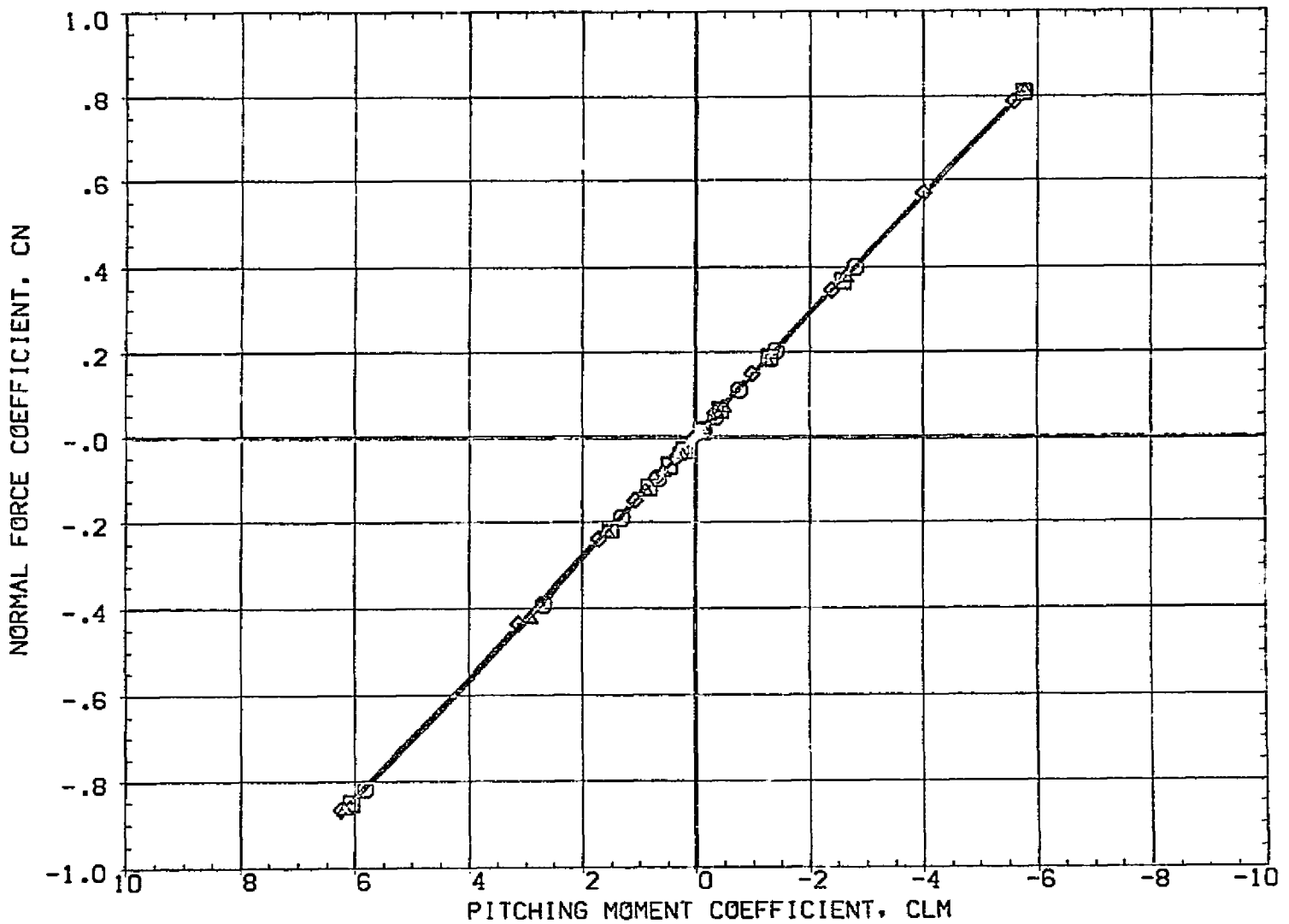


PITCH MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000
(BX1005)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

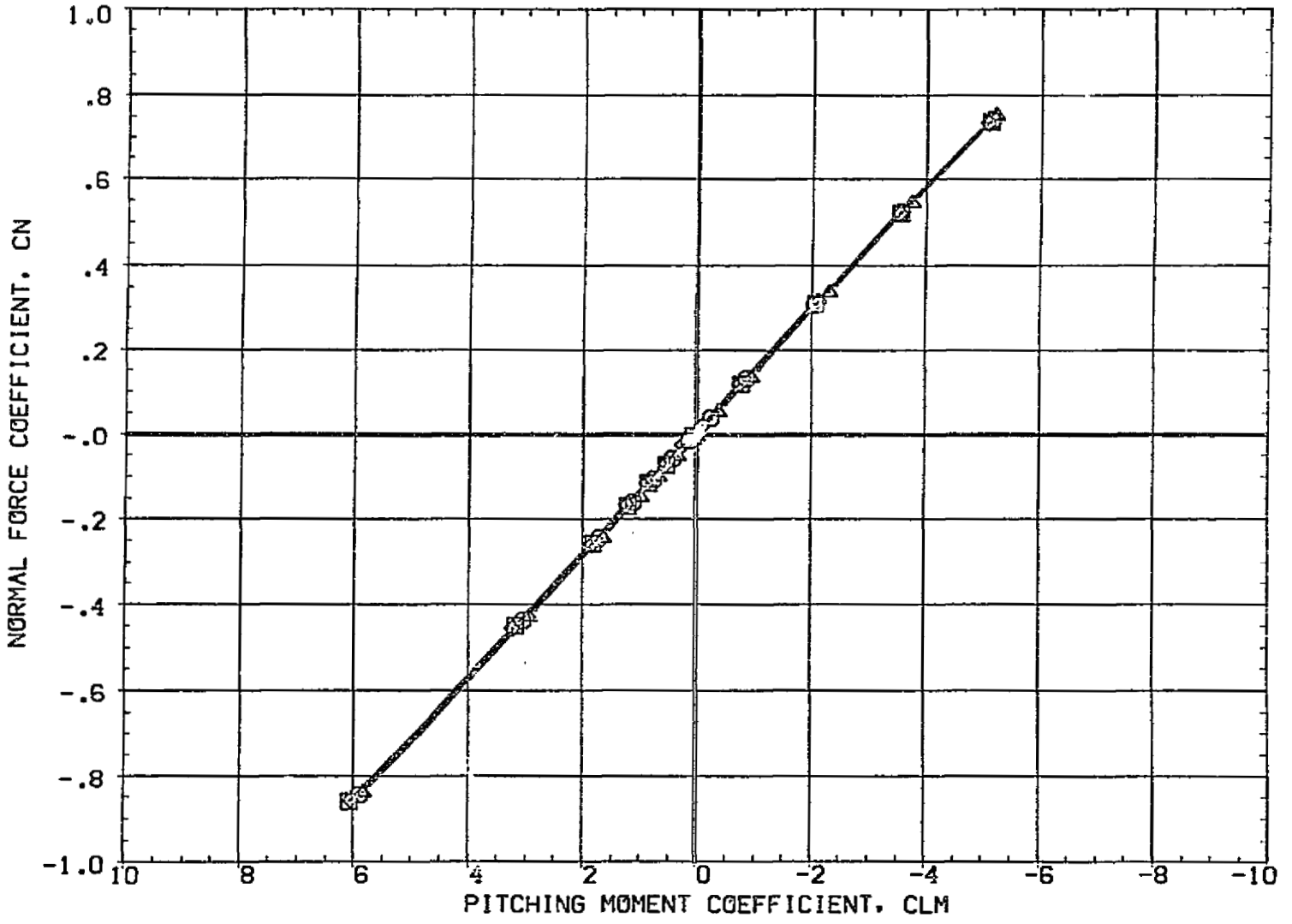


PITCH MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000
(BX1005)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

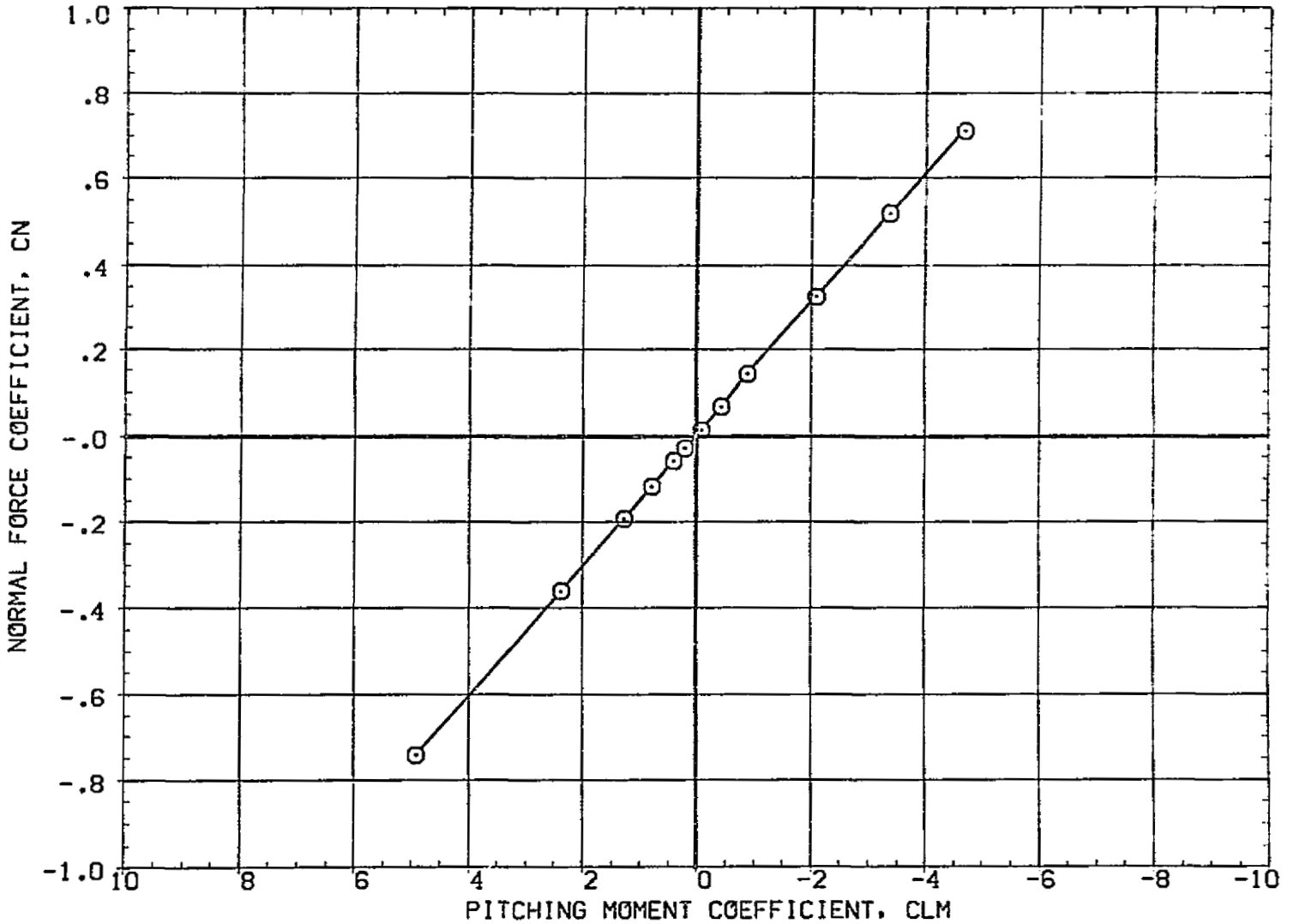


PITCH MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 82 F4 C	.000	.000	.000	86.000
(BX1003)	□	DATA NOT AVAILABLE	.000	40.000	.000	86.000
(BX1004)	◇	DATA NOT AVAILABLE	.000	60.000	.000	86.000
(BX1005)	△	DATA NOT AVAILABLE	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

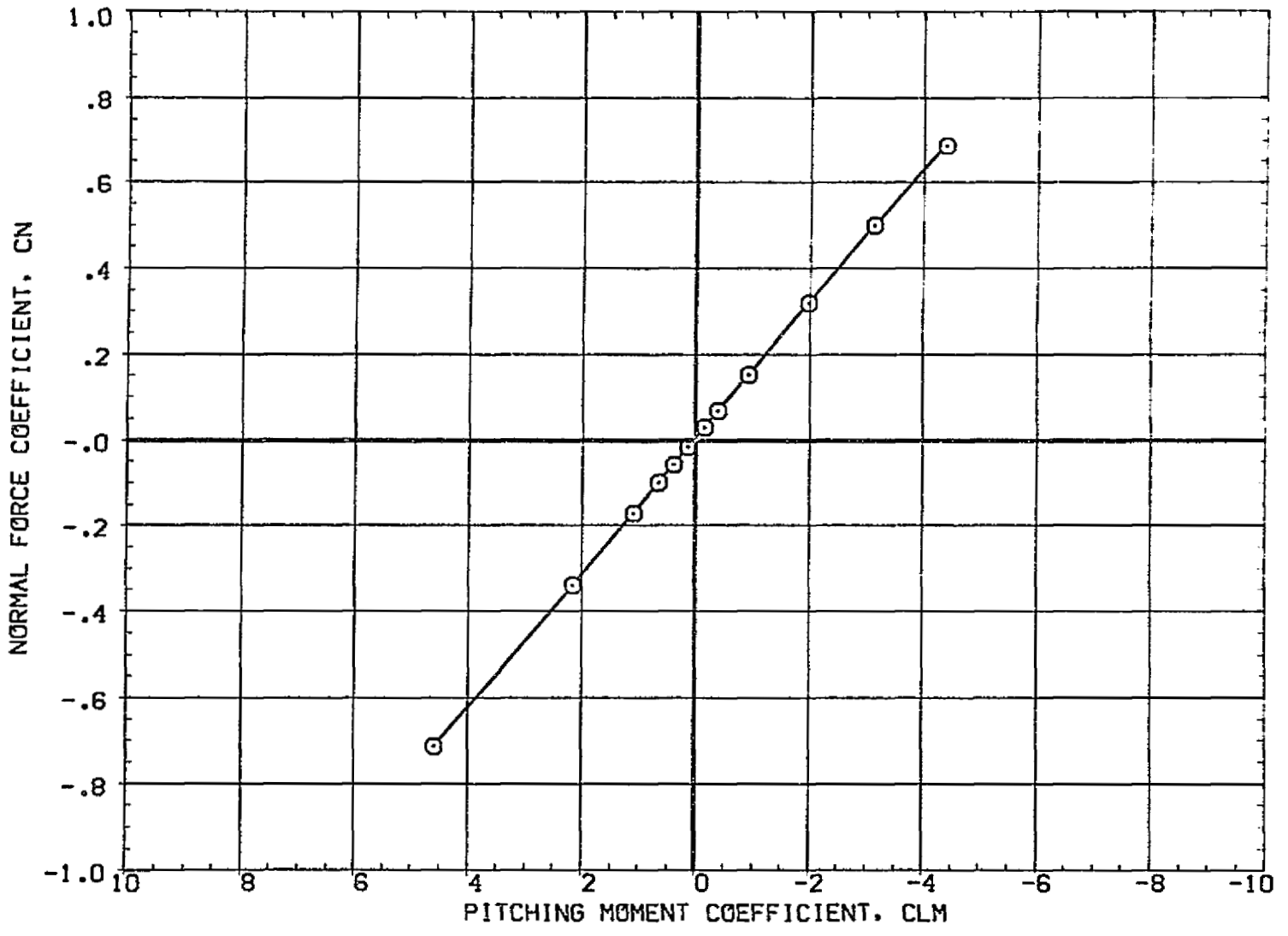


PITCH MODULATION EFFECT

CURMACH = 2.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	□	DATA NOT AVAILABLE	.000	40.000	.000	86.000
(BX1004)	◇	DATA NOT AVAILABLE	.000	60.000	.000	86.000
(BX1005)	△	DATA NOT AVAILABLE	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

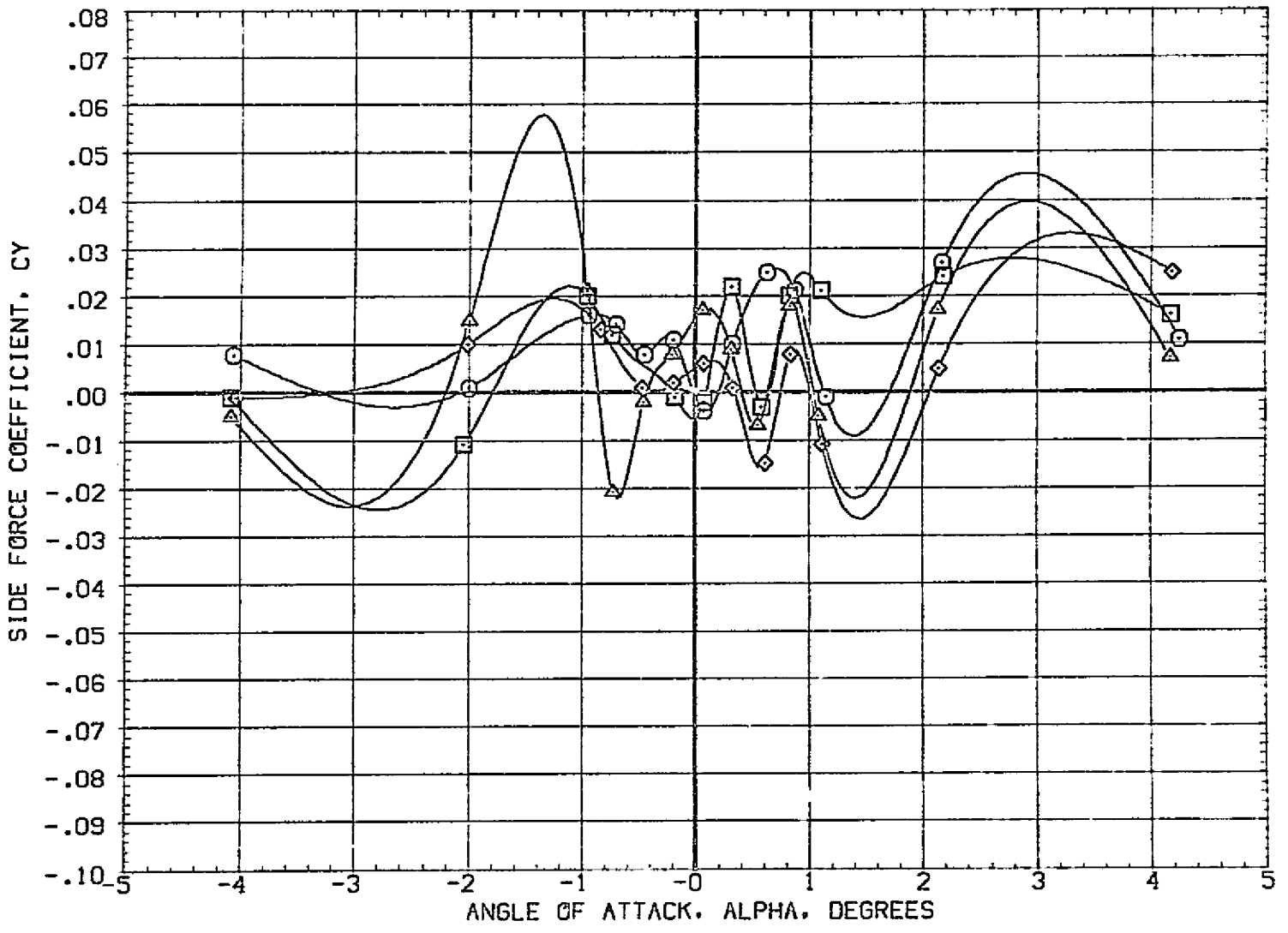


PITCH MODULATION EFFECT

(1)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000
(BX1005)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

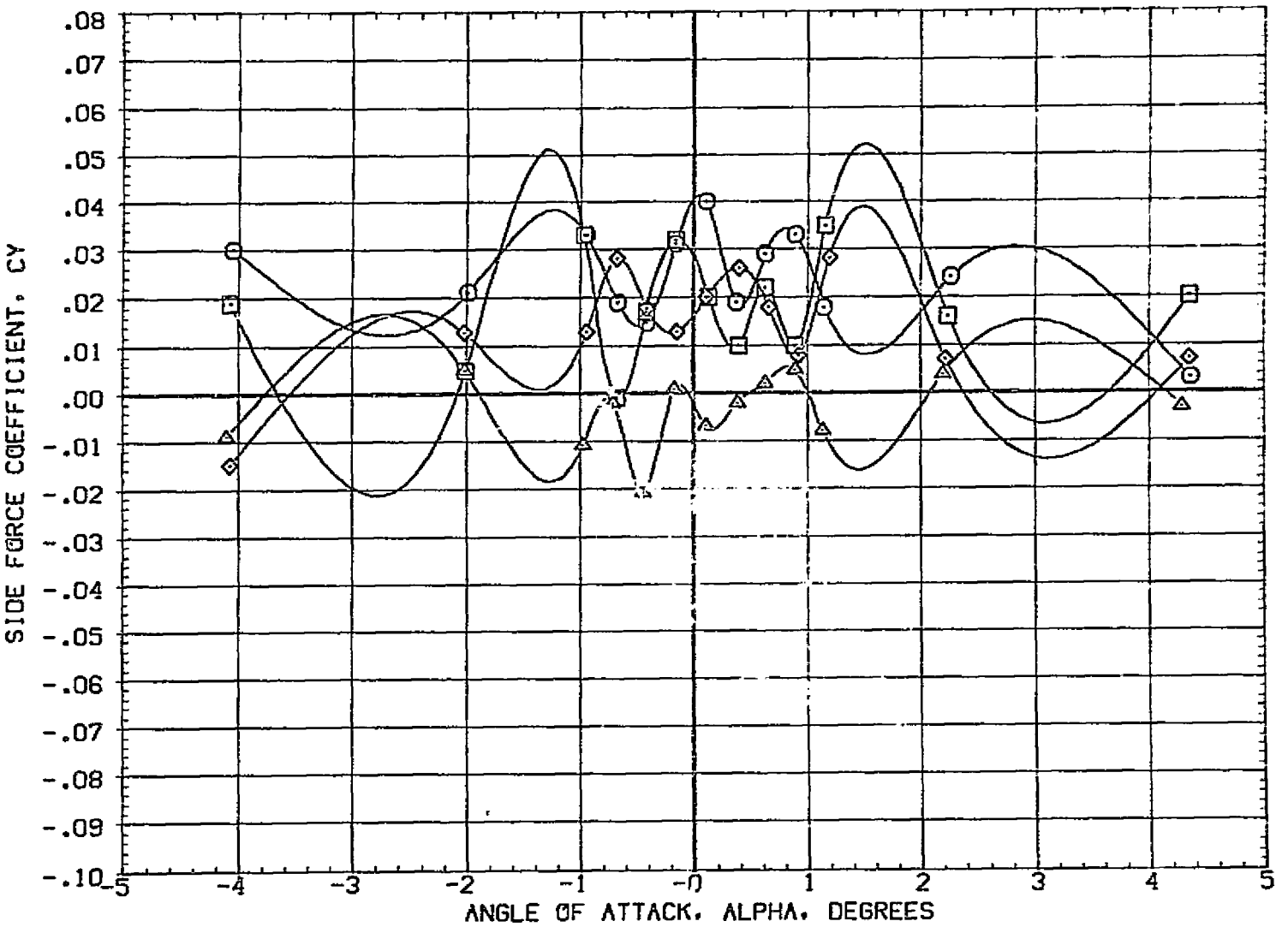


PITCH MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	DCAT ARC 603/604 B2 F4 C
(BX1003)	□	DCAT ARC 603/604 B2 F4 C
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C
(BX1005)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



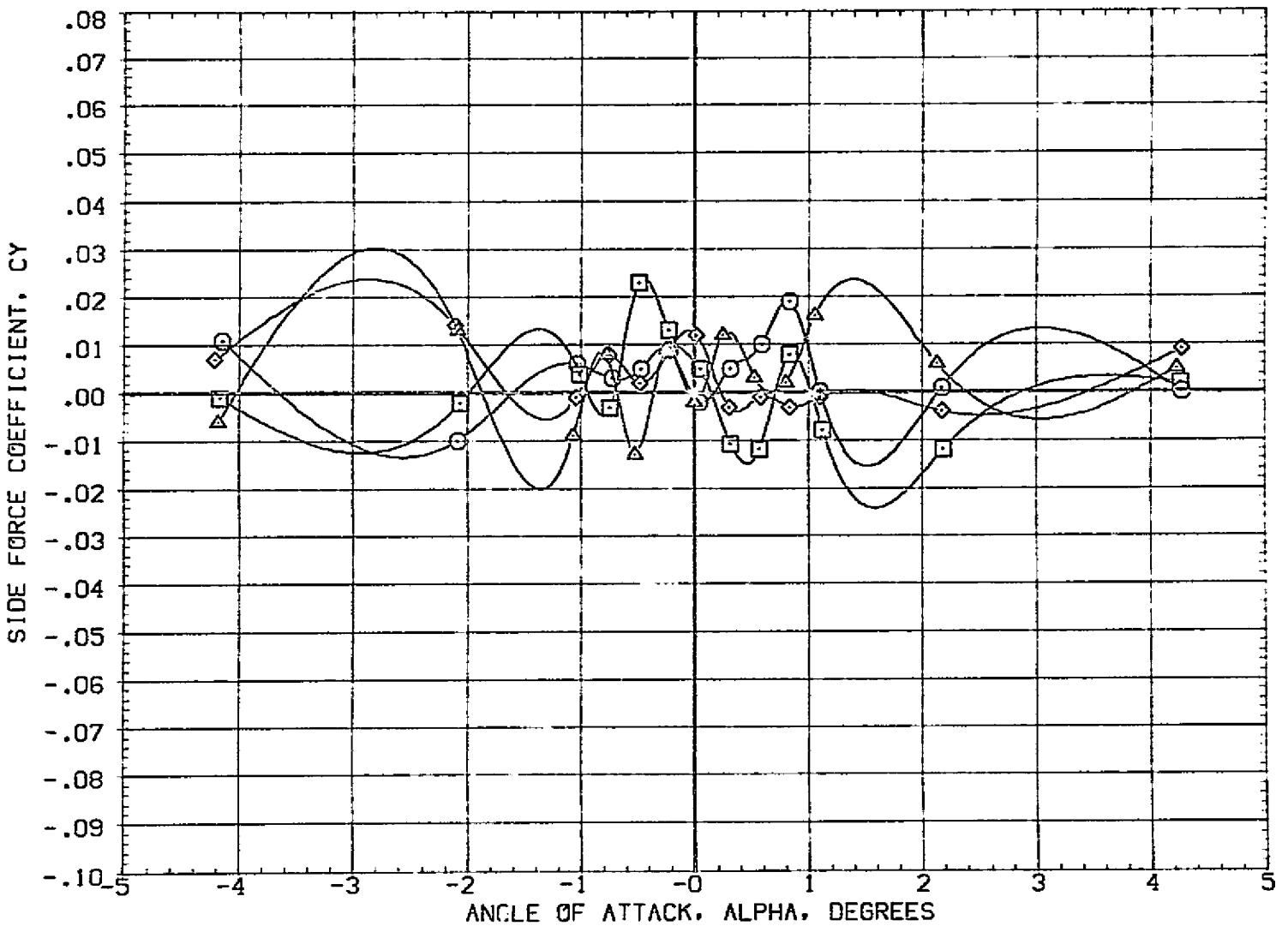
PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	DCAT ARC 603/604 B2 F4 C
(BX1003)	□	DCAT ARC 603/604 B2 F4 C
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C
(BX1005)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

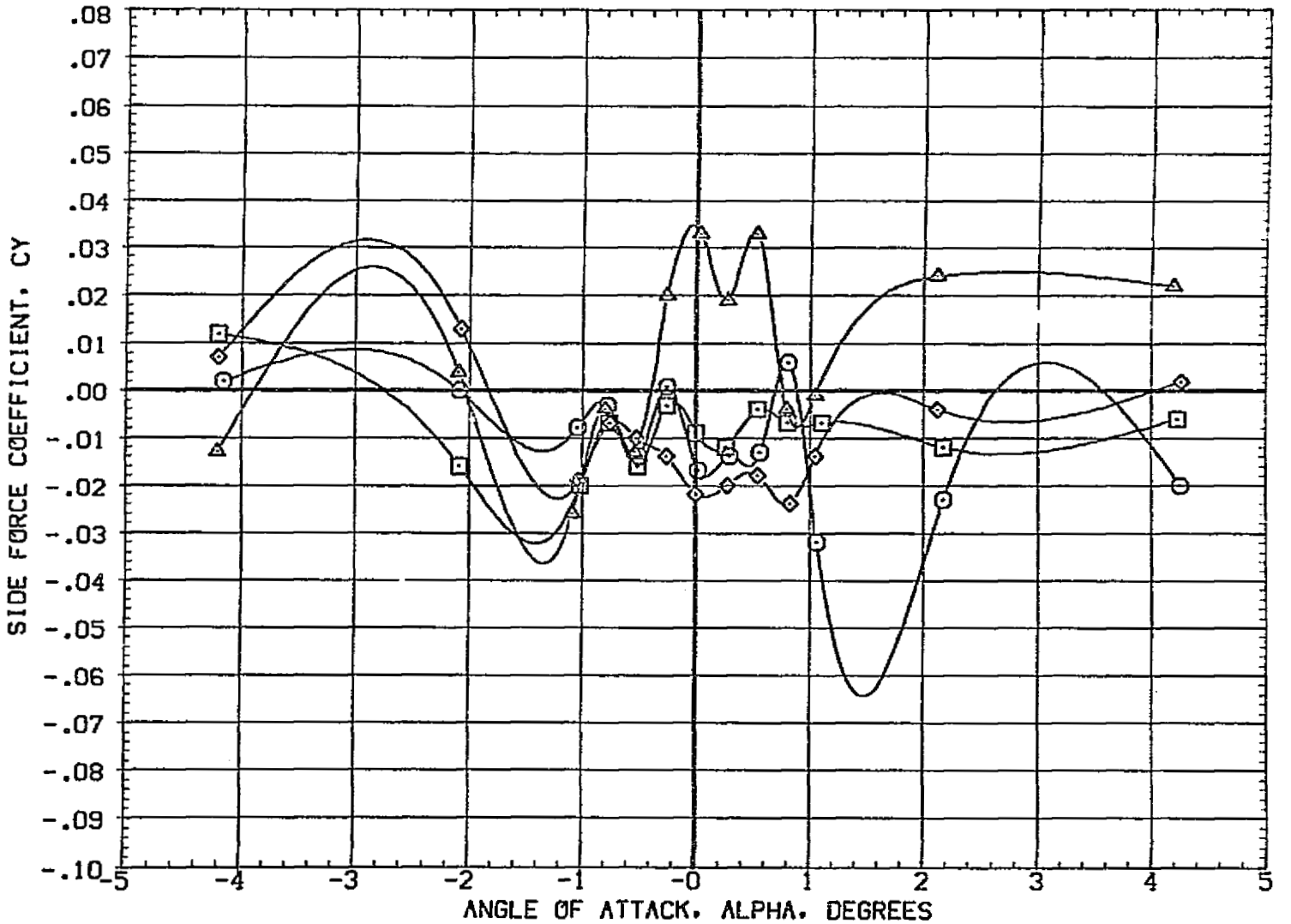
REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000
(BX1005)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



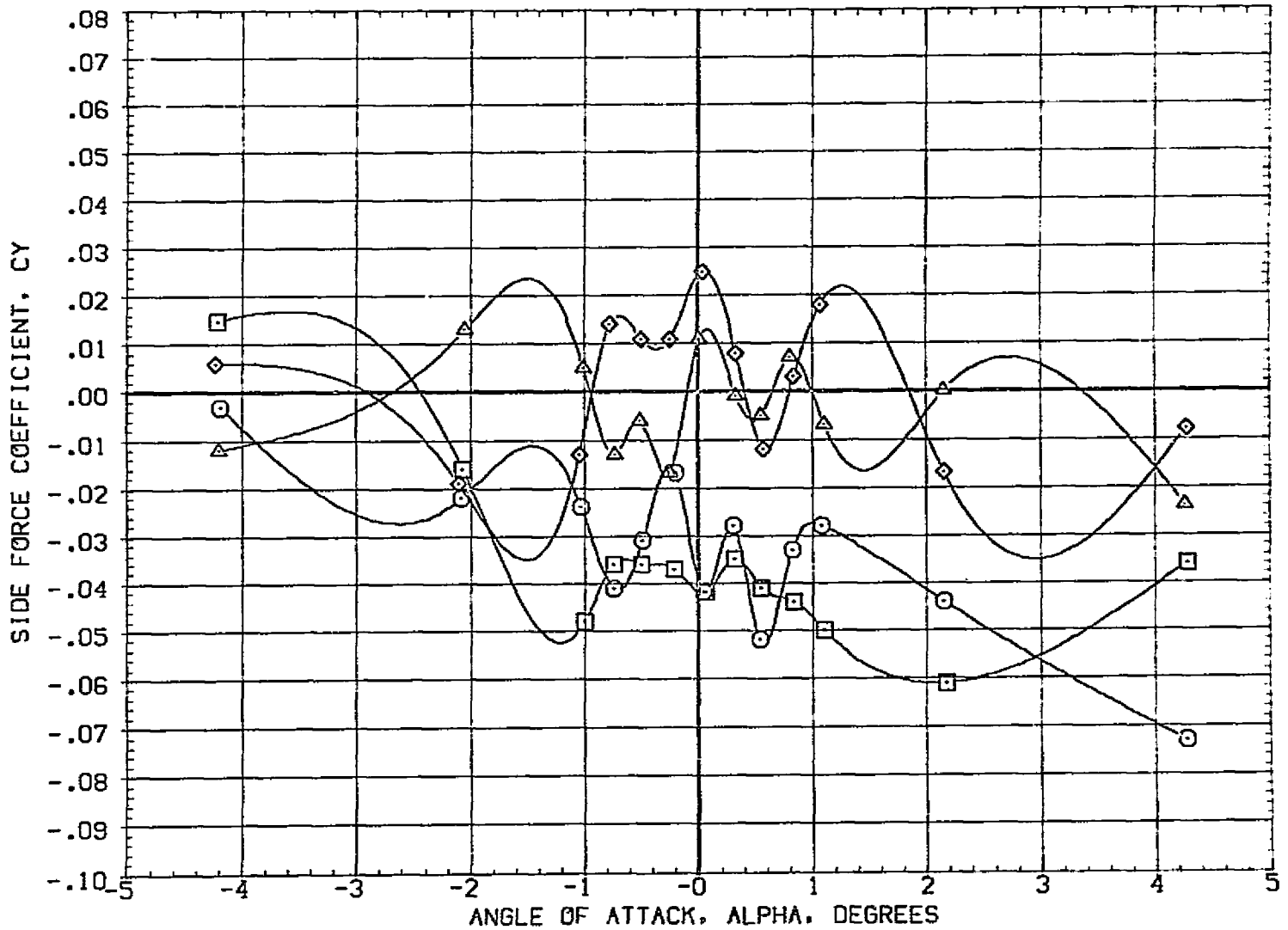
PITCH MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(8X1002)	○	DCAT ARC 603/604 B2 F4 C
(8X1003)	□	DCAT ARC 603/604 B2 F4 C
(8X1004)	◇	DCAT ARC 603/604 B2 F4 C
(8X1005)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PQJ/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



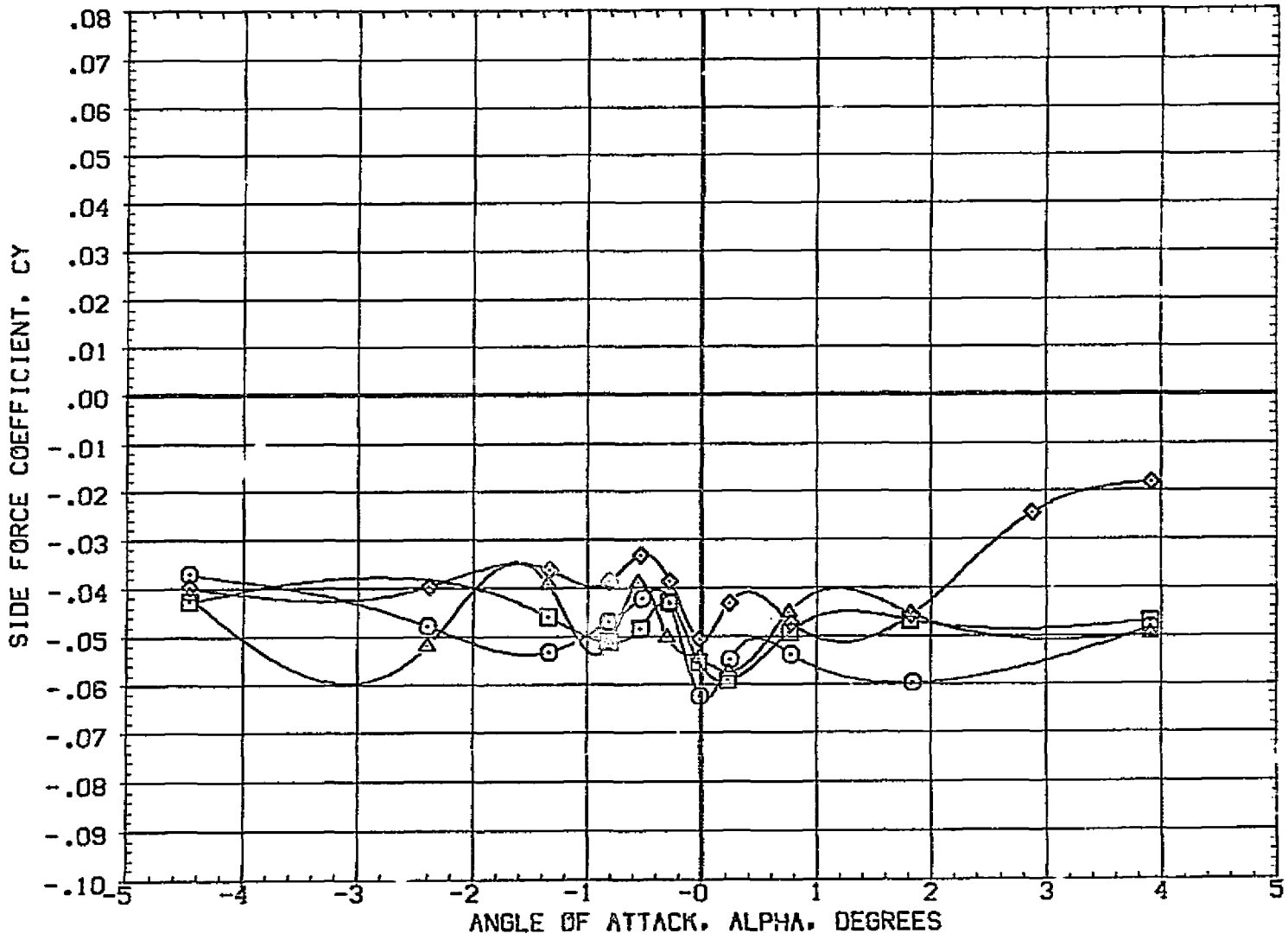
PITCH MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	DCAT ARC 603/604 B2 F4 C
(BX1003)	□	DCAT ARC 603/604 B2 F4 C
(BX1004)	◇	DCAT ARC 603/604 B2 F4 C
(BX1005)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

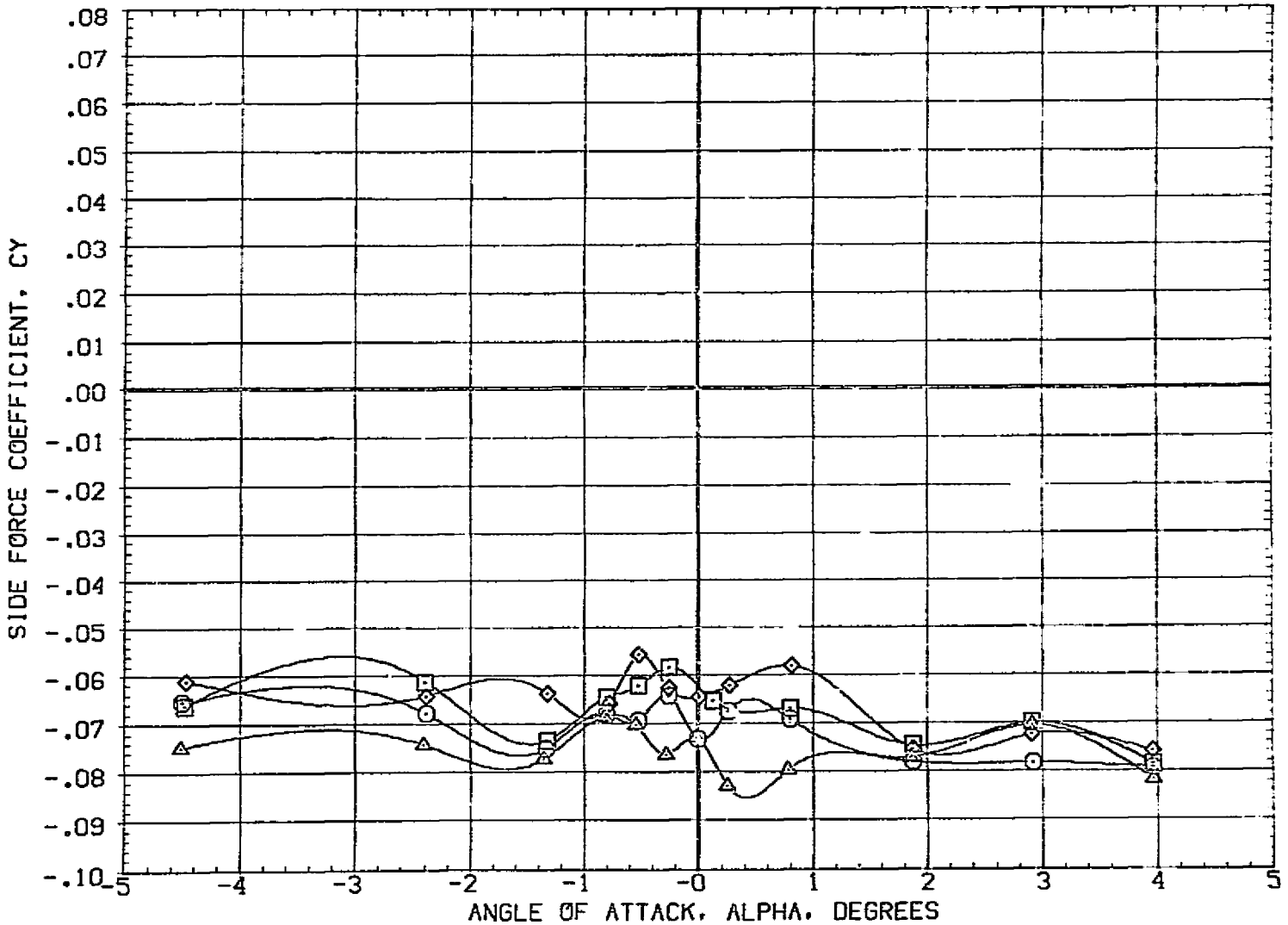


PITCH MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POW/PF
(BX1002)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1003)	□	OCAT ARC 603/604 B2 F4 C	.000	40.000	.000	86.000
(BX1004)	◇	OCAT ARC 603/604 B2 F4 C	.000	60.000	.000	86.000
(BX1005)	△	OCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



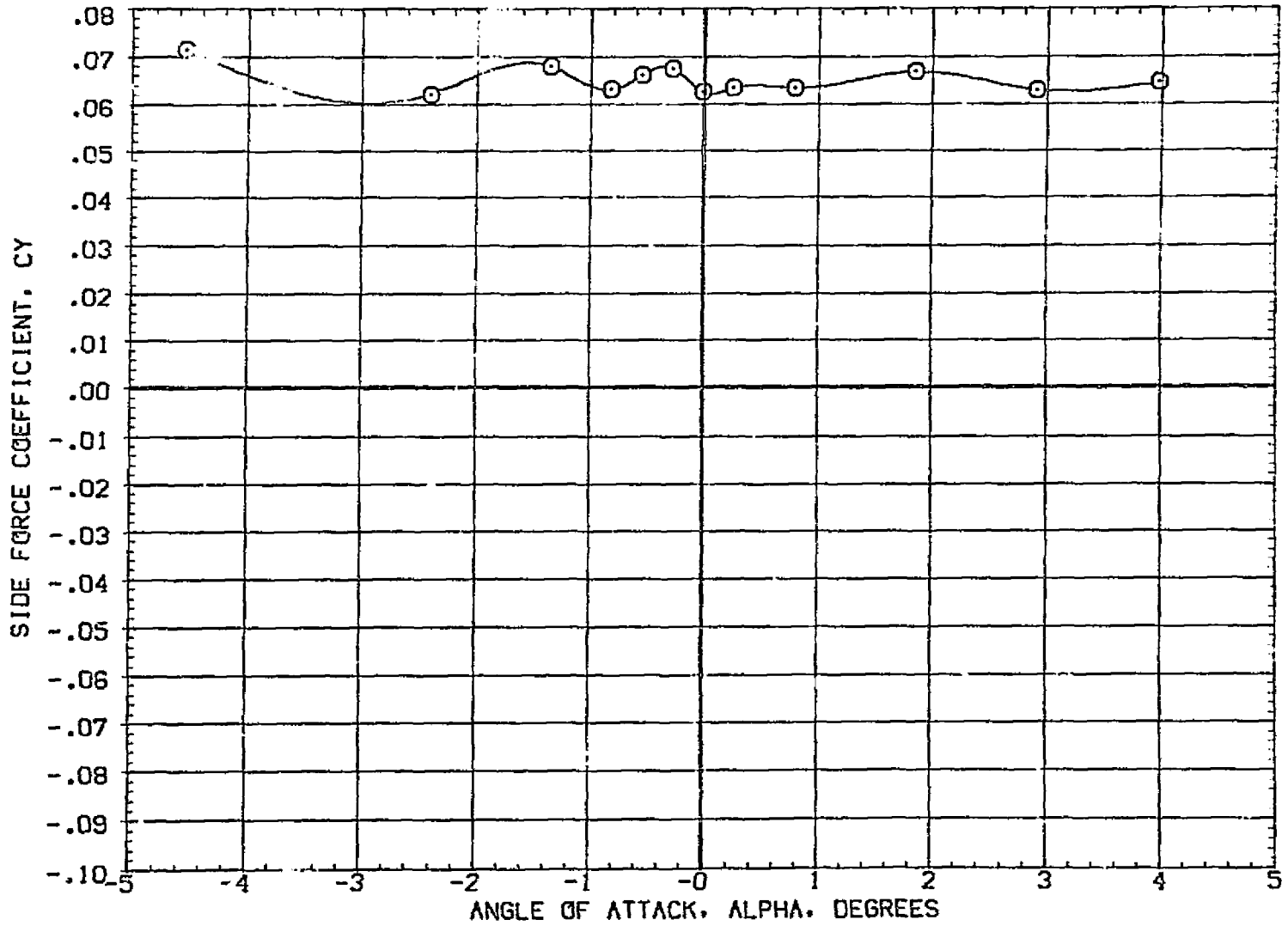
PITCH MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	DCAT ARC 603/604 B2 F4 C
(BX1003)	□	DATA NOT AVAILABLE
(BX1004)	◇	DATA NOT AVAILABLE
(BX1005)	△	DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	60.000	.000	86.000
.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

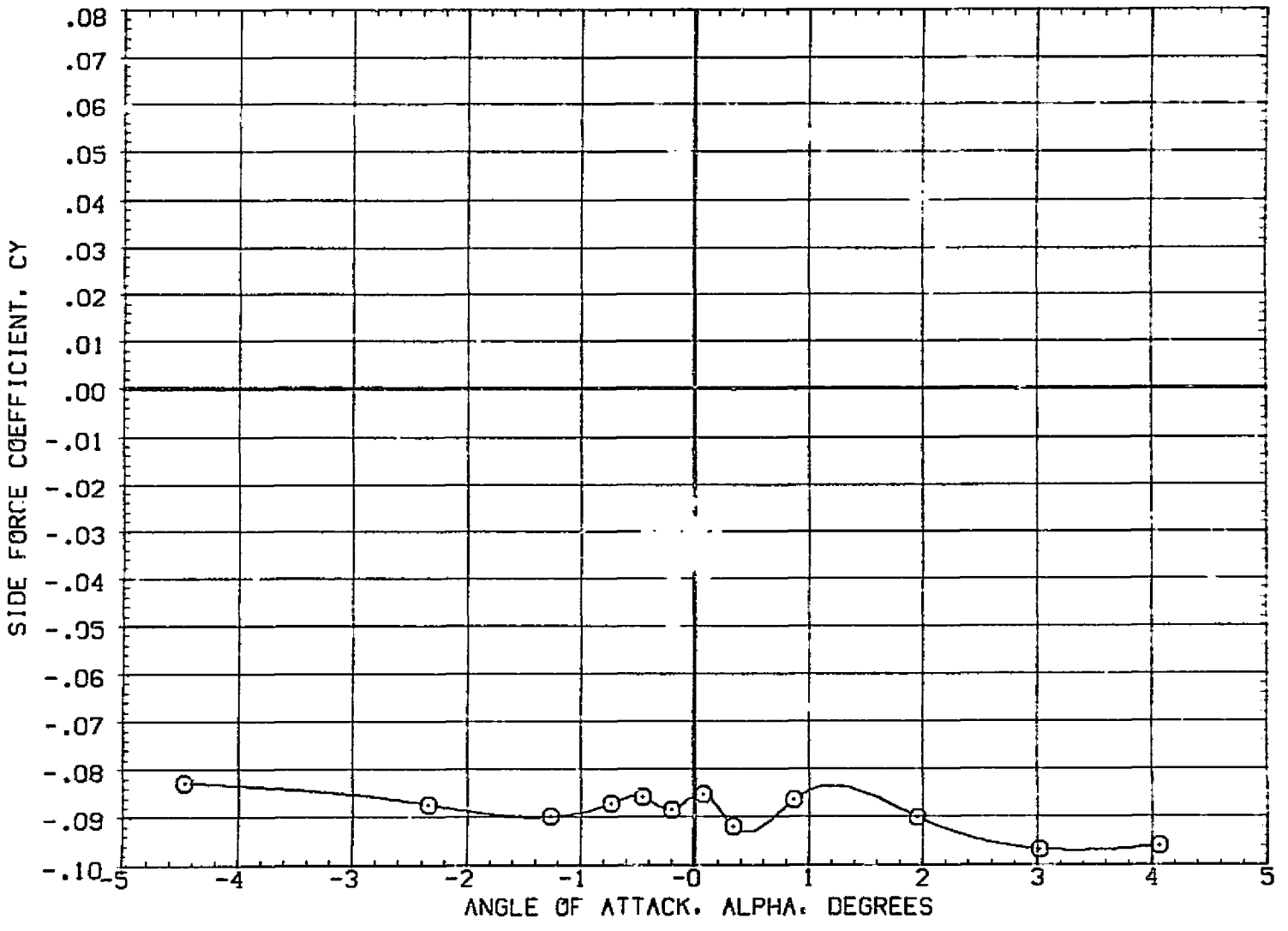


PITCH MODULATION EFFECT

(H)MACH = 2.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1002)	□	DCAT ARC 6C3/6C4 82 F4 C	.000	000	.000	86.000
(BX1003)	⊡	DATA NOT AVAILABLE	.000	40.000	.000	86.000
(BX1004)	⊠	DATA NOT AVAILABLE	.000	60.000	.000	86.000
(BX1005)	△	DATA NOT AVAILABLE	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



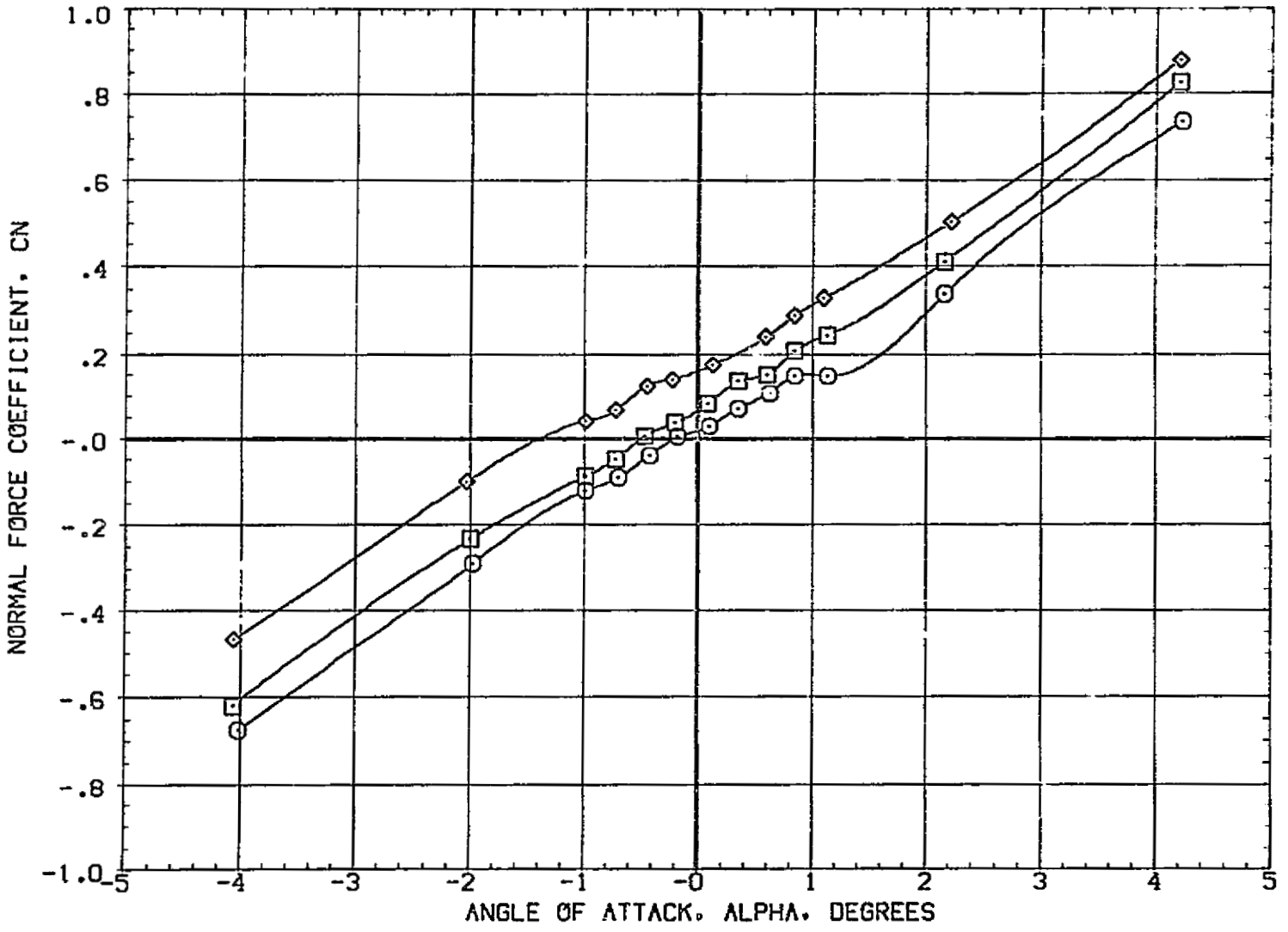
PITCH MODULATION EFFECT

(1)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1006)	○	OCAT ARC 603/604 B2 F4 C
(BX1007)	□	C AT ARC 603/604 B2 F4 C
(BX1008)	◇	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	40.000	86.000
.000	40.000	40.000	86.000
.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

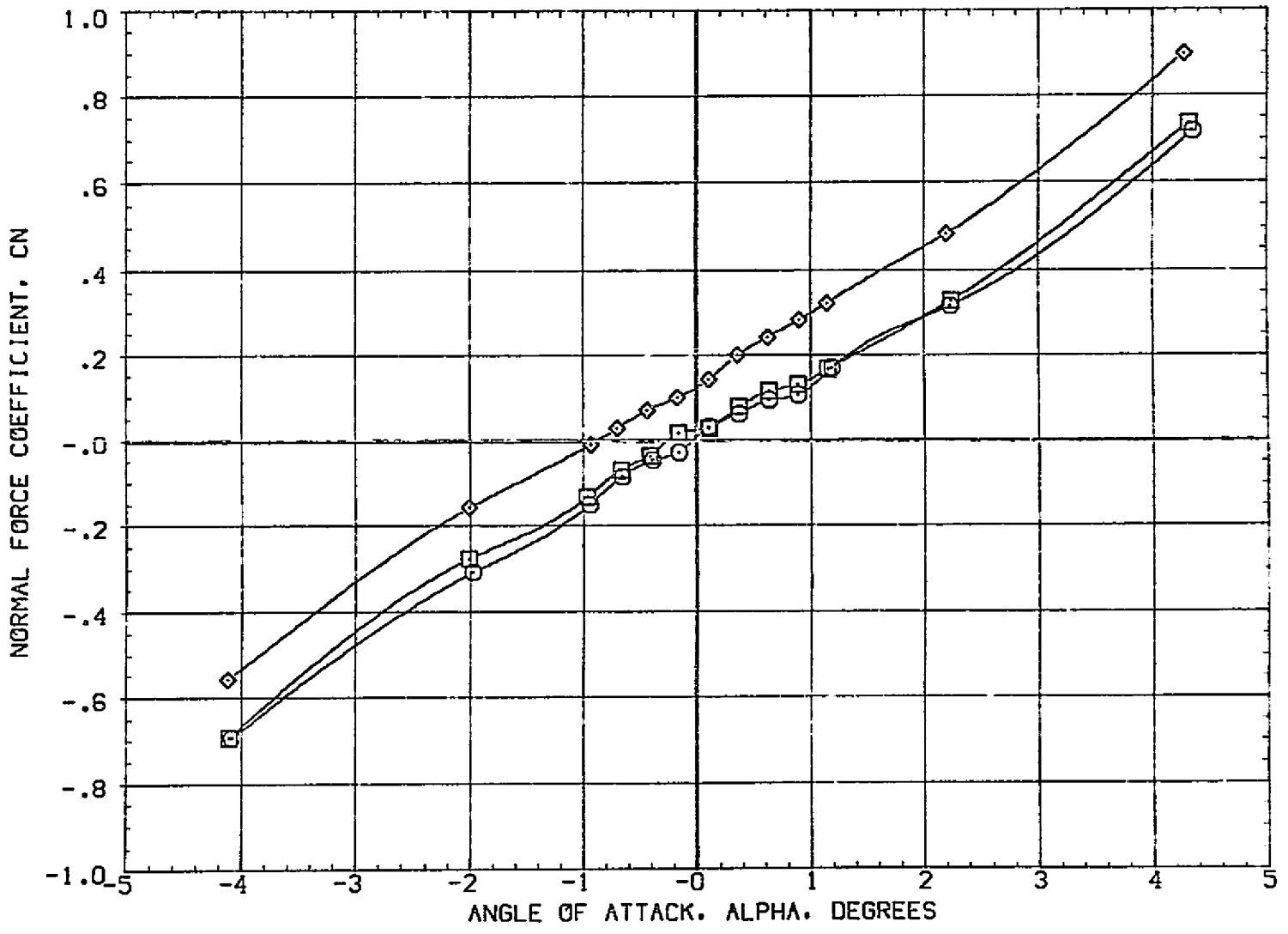


PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POS/PF
(BX1006)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	□	OCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1008)	◇	OCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



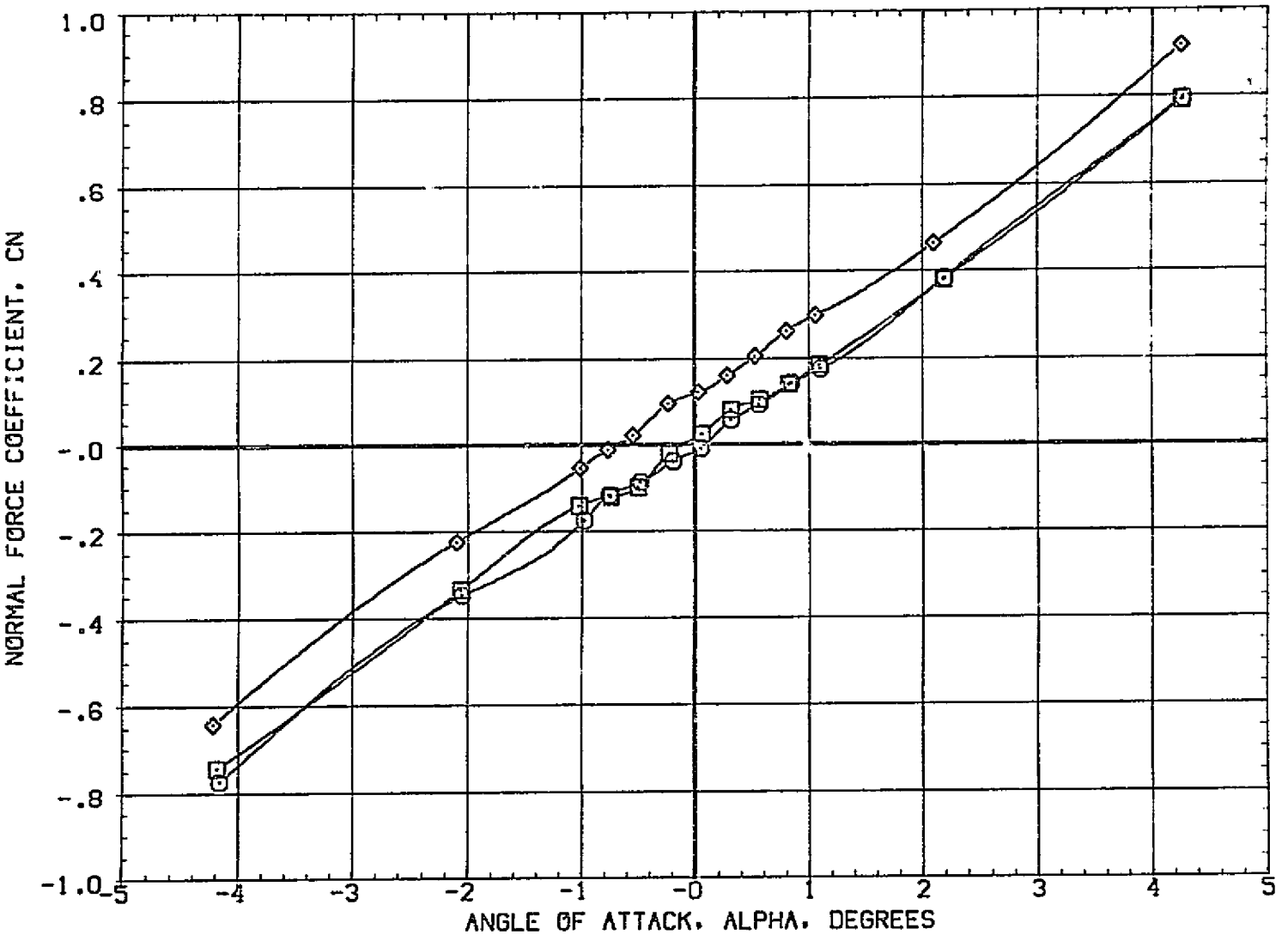
PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1006)	○	DCAT ARC 603/604 B2 F4 C
(BX1007)	□	DCAT ARC 603/604 B2 F4 C
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	40.000	86.000
.000	40.000	40.000	86.000
.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



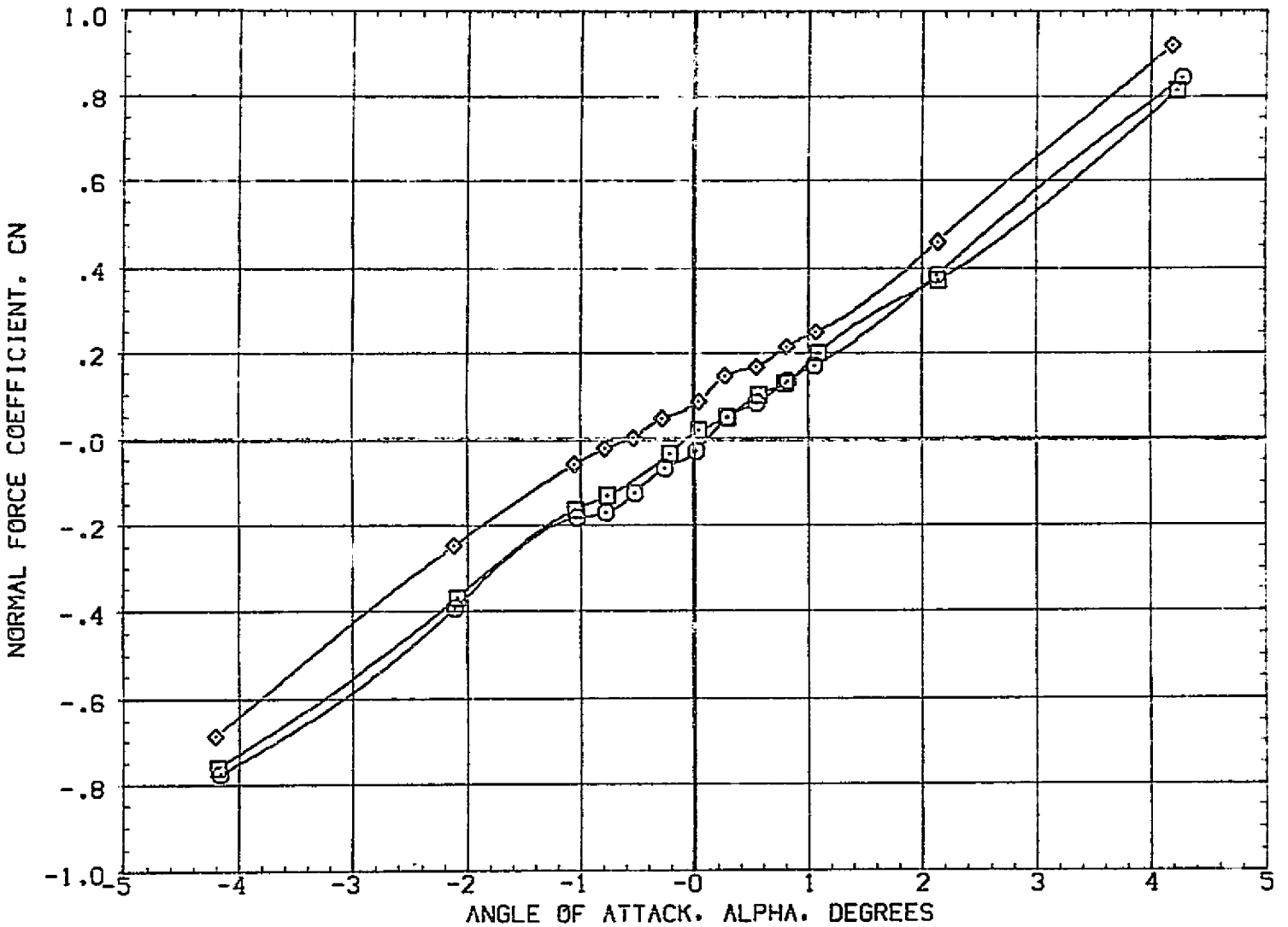
PITCH MODULATION EFFECT

(C)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1006)	○	DCAT ARC 603/604 B2 F4 C
(BX1007)	□	DCAT ARC 603/604 B2 F4 C
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	40.000	85.000
.000	40.000	40.000	86.000
.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



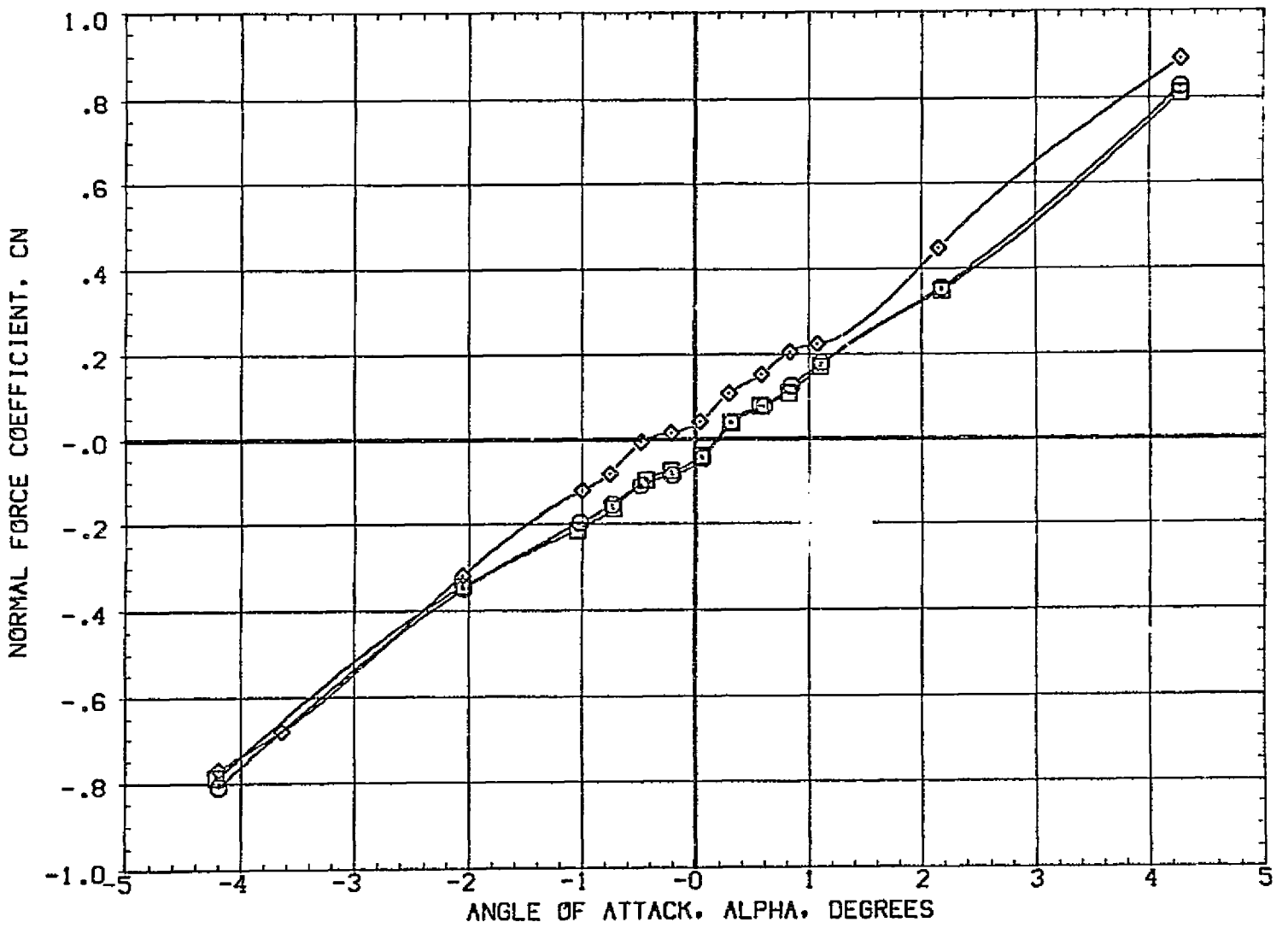
PITCH MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1006)	○	DCAT ARC 603/604 B2 F4 C
(BX1007)	□	DCAT ARC 603/604 B2 F4 C
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POL/PF
.000	.000	40.000	86.000
.000	40.000	40.000	86.000
.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



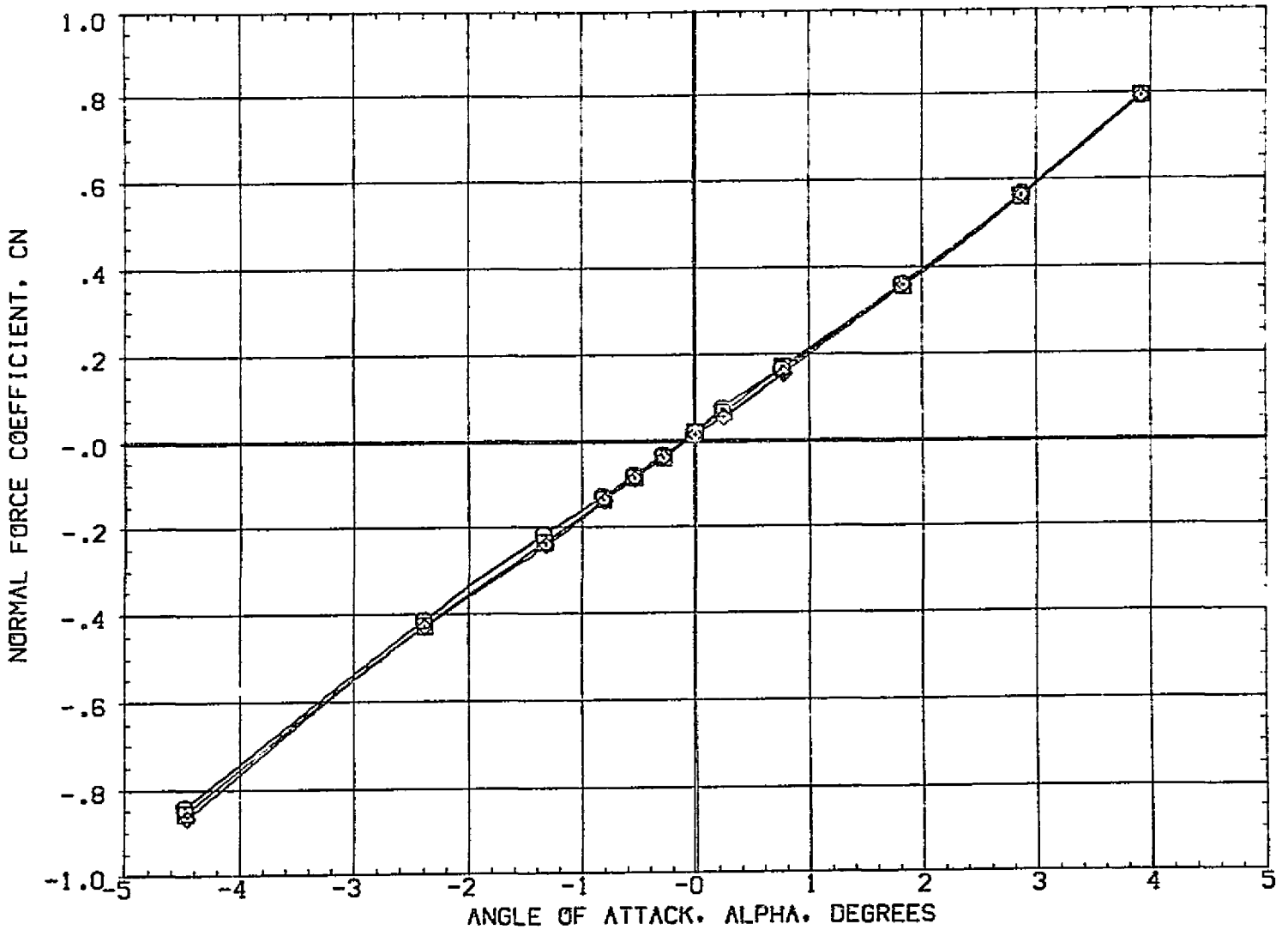
PITCH MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1006)	○	DCAT ARC 603/604 B2 F4 C
(BX1007)	□	DCAT ARC 603/604 B2 F4 C
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POL/PF
.000	.000	40.000	86.000
.000	40.000	40.000	86.000
.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCENT

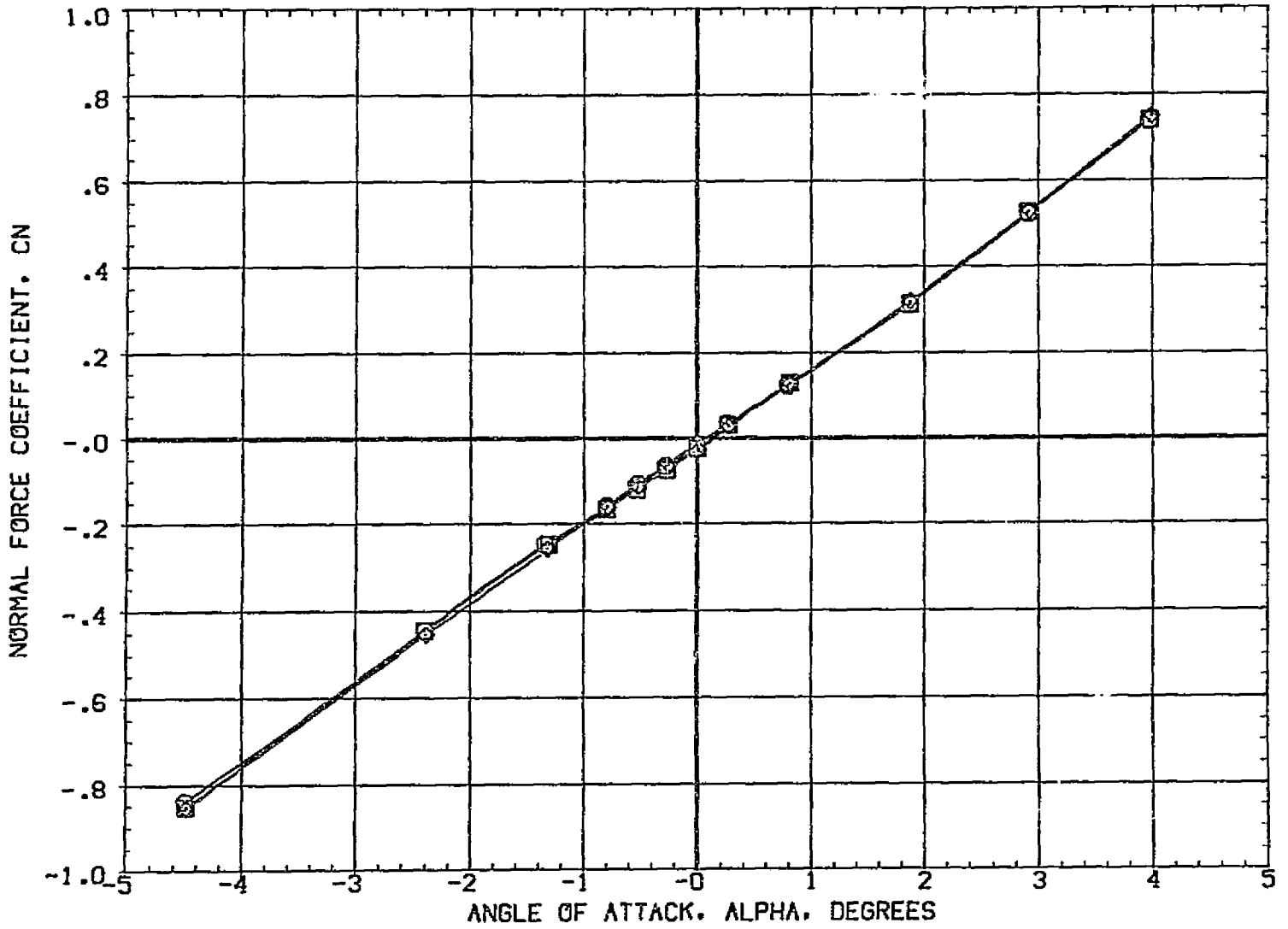


PITCH MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POL/PF
(BX1006)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

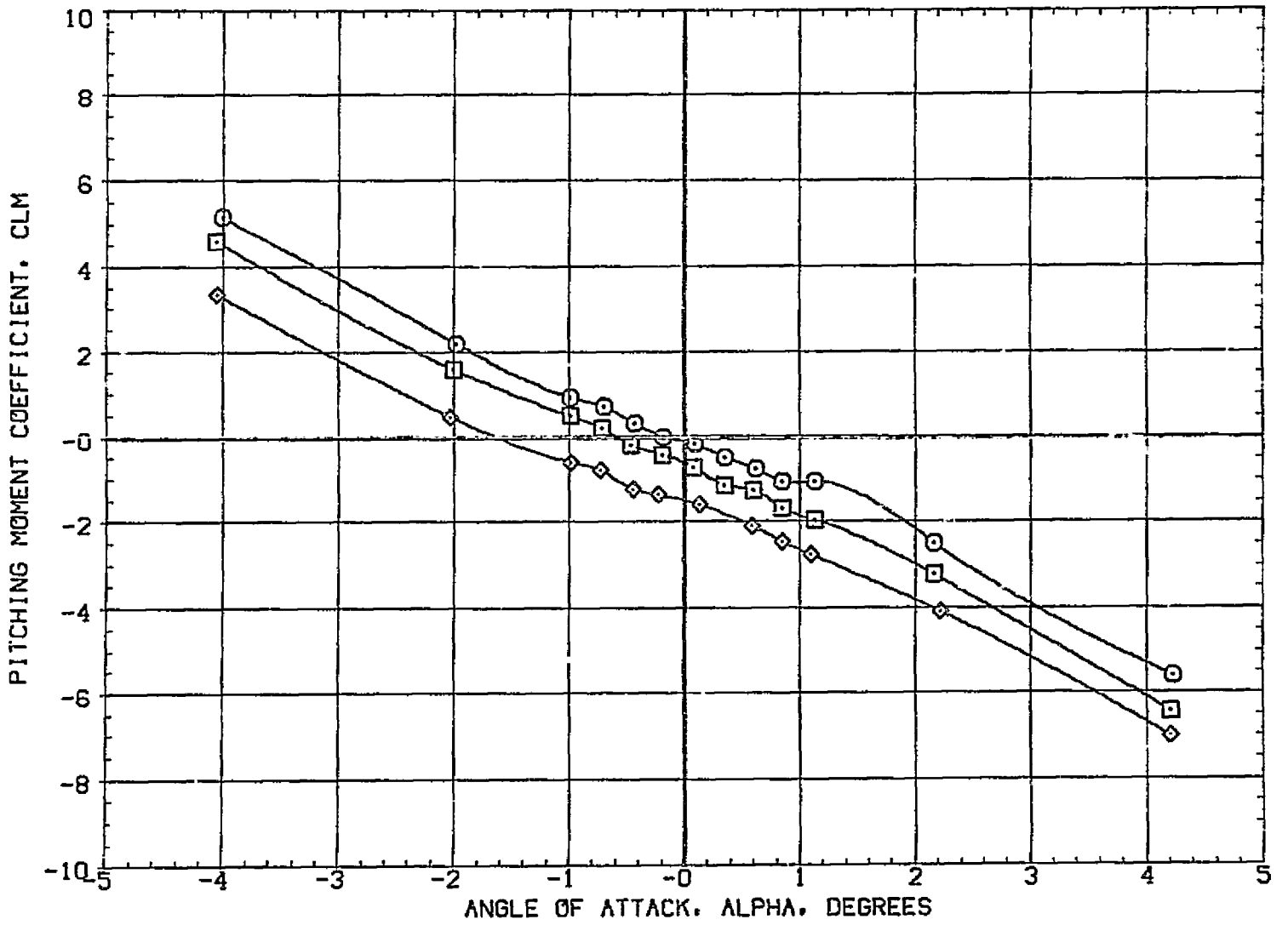


PITCH MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(8X1006)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(8X1007)	□	OCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(8X1008)	◇	OCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



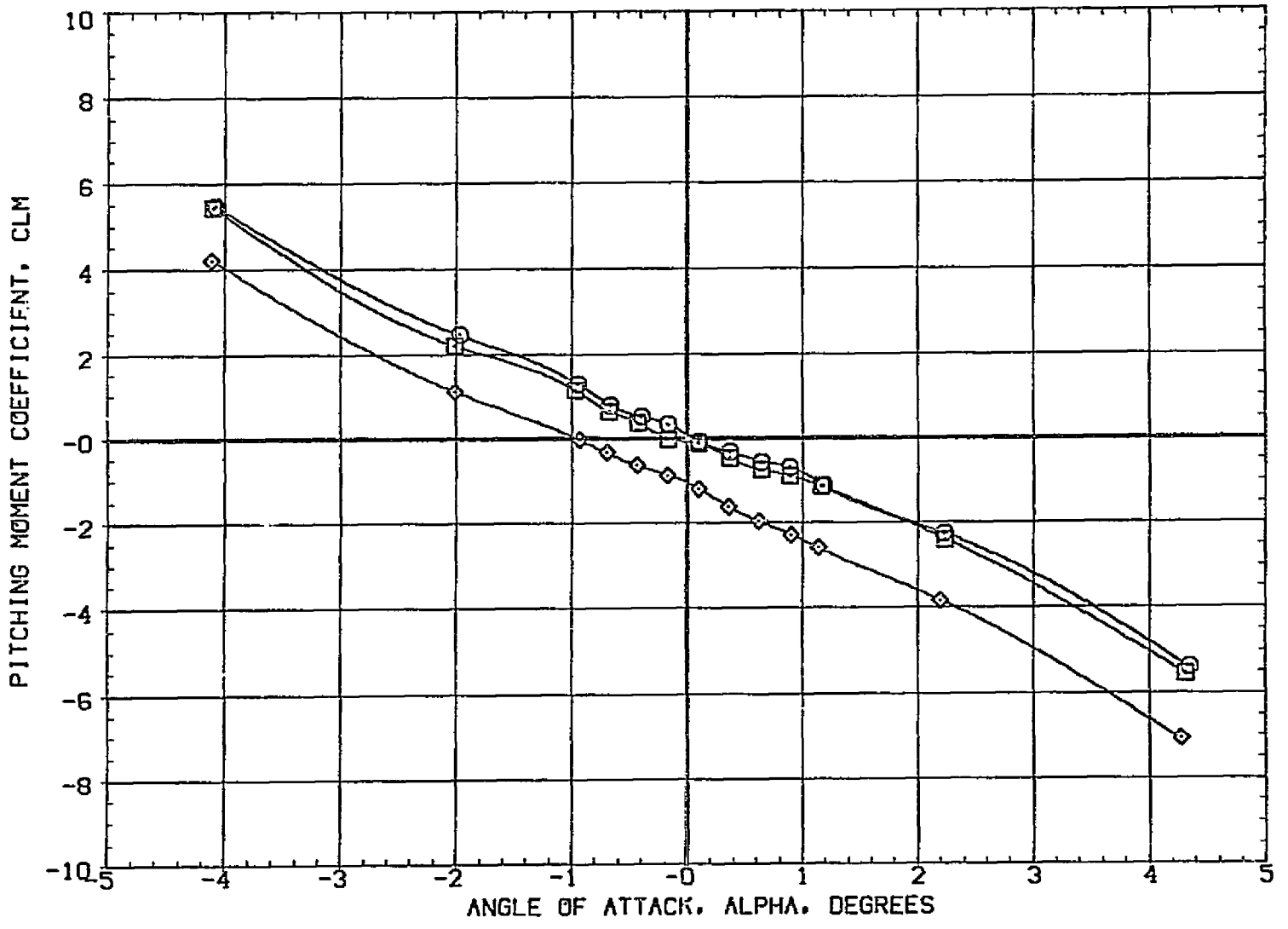
PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BX1006)	○	DCAT ARC 603/604 B2 F4 C
(BX1007)	□	DCAT ARC 603/604 B2 F4 C
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POS/PF
.000	.000	40.000	86.000
.000	40.000	40.000	86.000
.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCENT

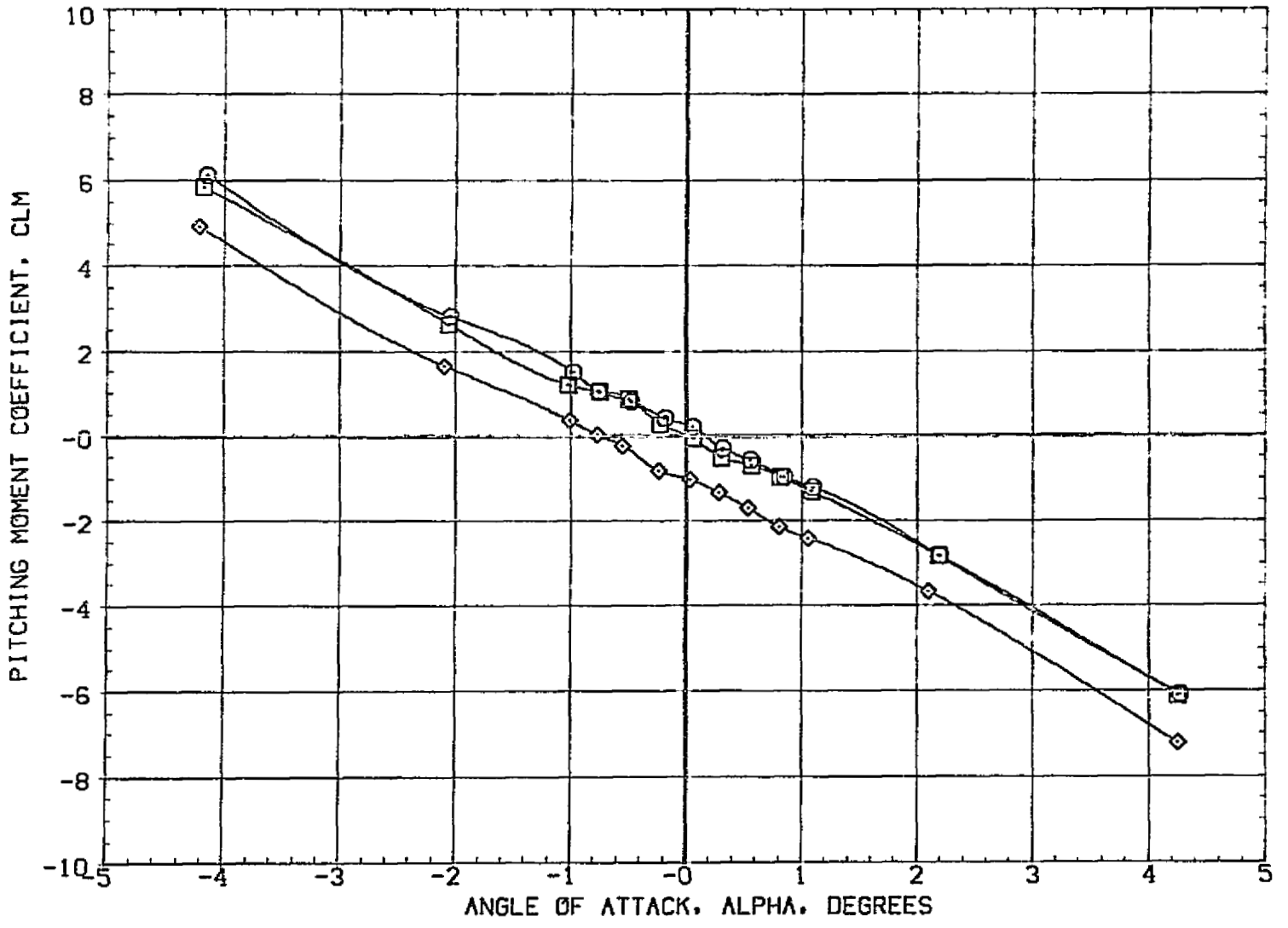


PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1006)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

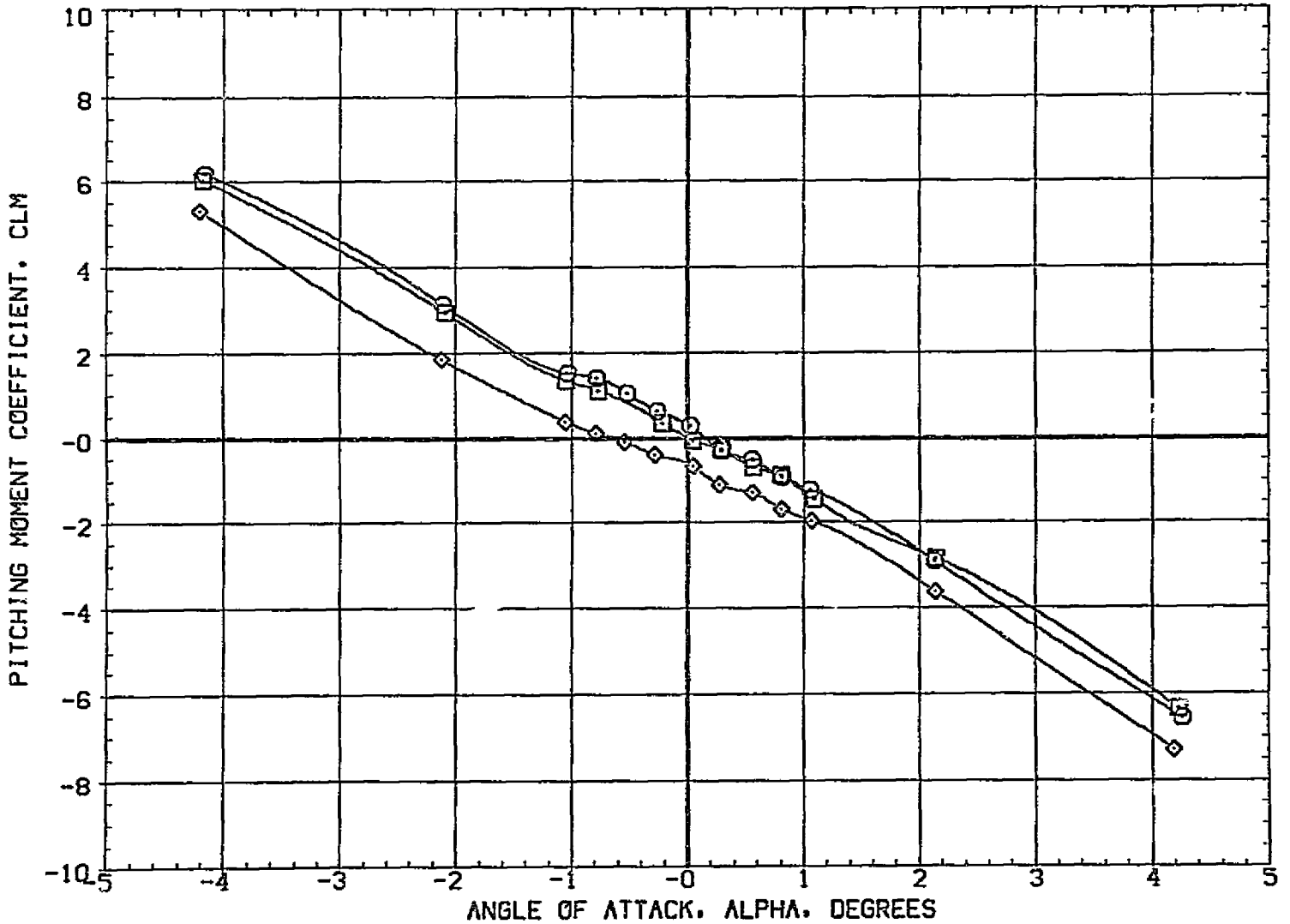


PITCH MODULATION EFFECT

(C)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1006)	▢	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	◁▢	DCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

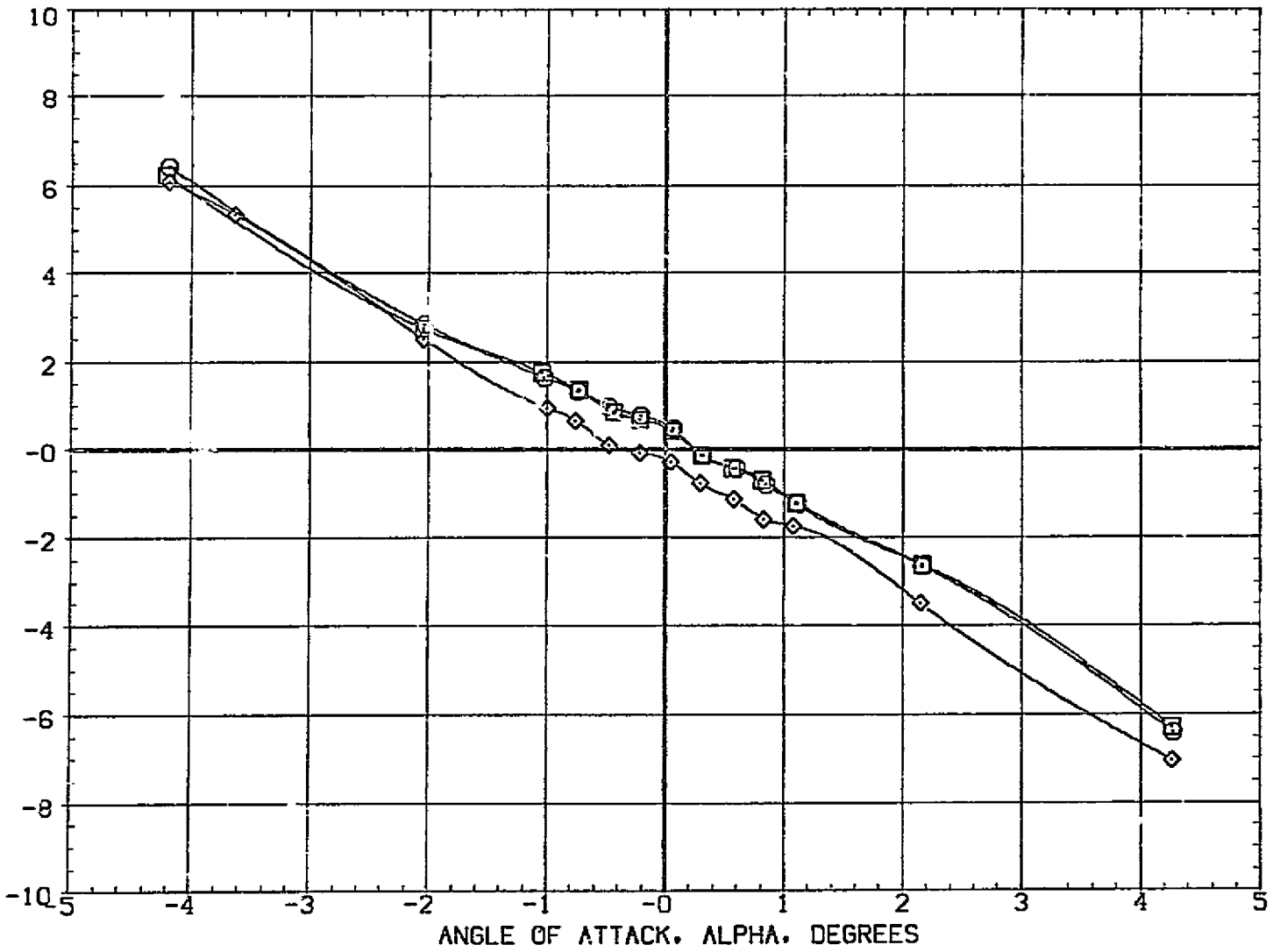
(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1006)	○	DCAT ARC 603/604 B2 F4 C
(BX1007)	□	DCAT ARC 603/604 B2 F4 C
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	40.000	86.000
.000	40.000	40.000	86.000
.000	100.000	40.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

ΔC_{m_q}

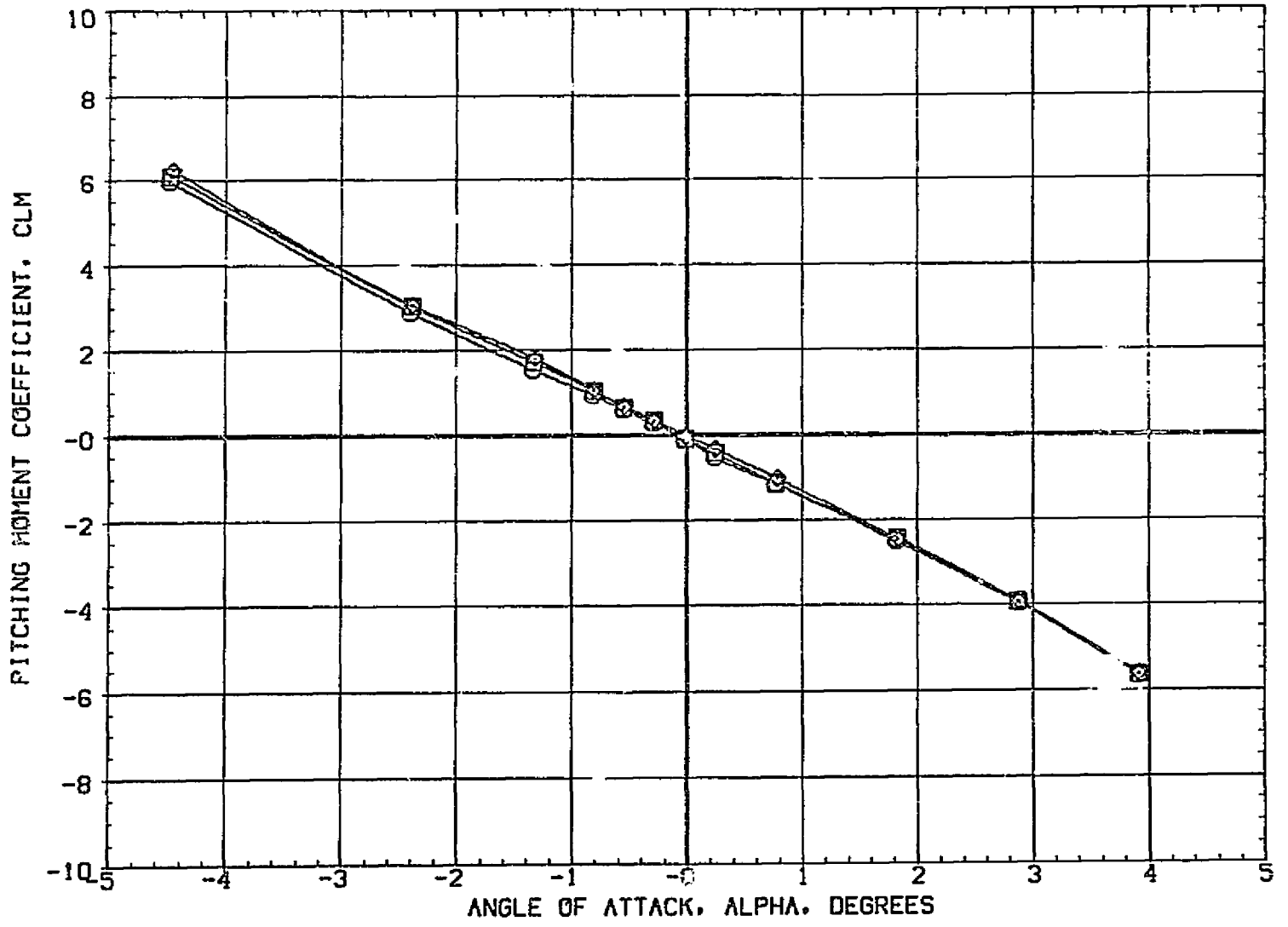


PITCH MODULATION EFFECT

(FDMCH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOT	Y-MOD	POL/PF
(BX1006)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	□	OCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1008)	◇	OCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

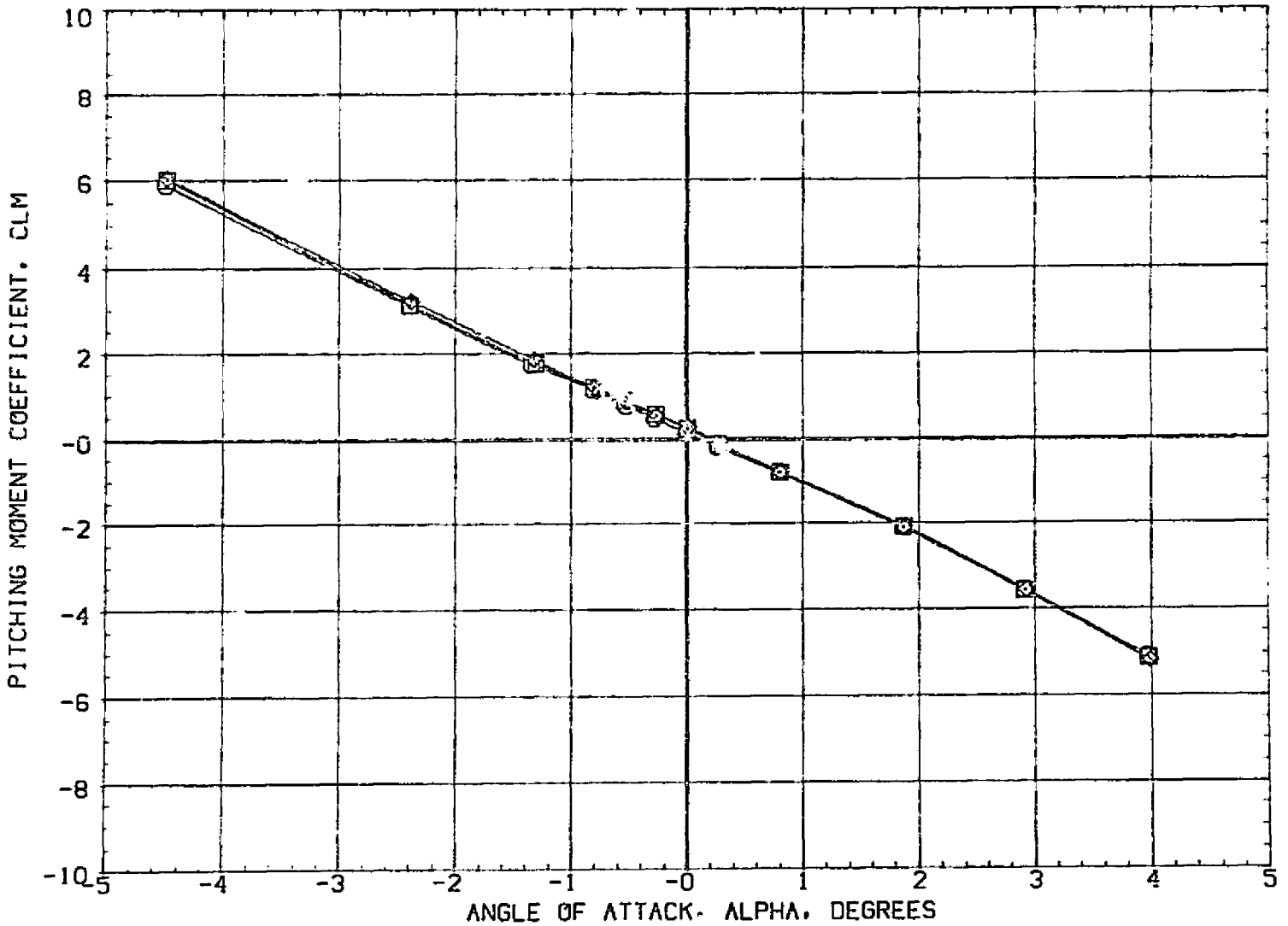
(F)MACH = 1.56

>08

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1006)	▢	OCAT ARC 603/604 B2 F4 C
(BX1007)	□	OCAT ARC 603/604 B2 F4 C
BX1008	◇	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POL/PF
.000	.000	40.000	86.000
.000	40.000	40.000	86.000
.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



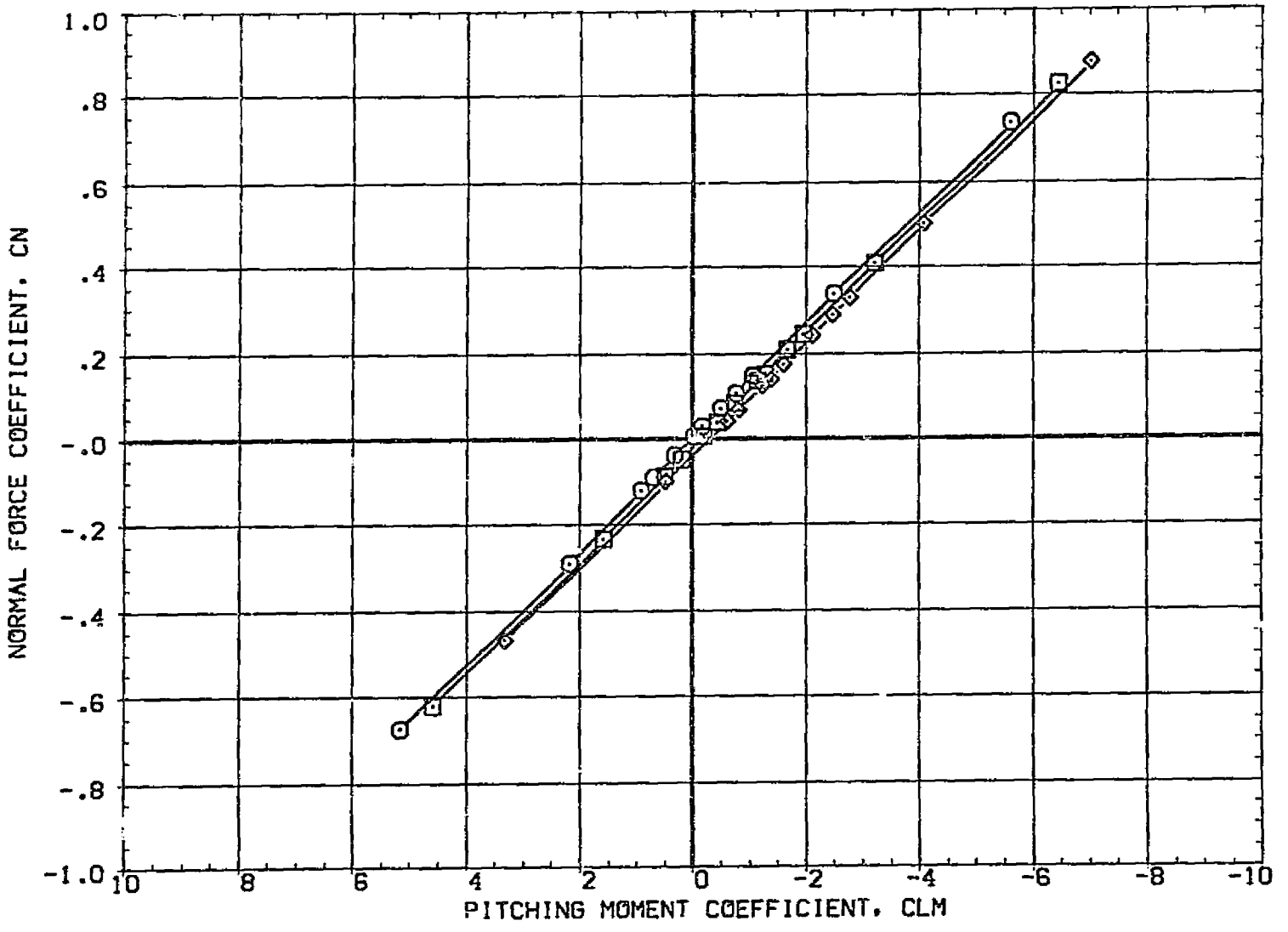
PITCH MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1006)	○	DCAT ARC 603/604 B2 F4 C
(BX1007)	□	DCAT ARC 603/604 B2 F4 C
(BX1008)	◇	DCA1 ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF
.000	.000	40.000	86.000
.000	40.000	40.000	86.000
.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



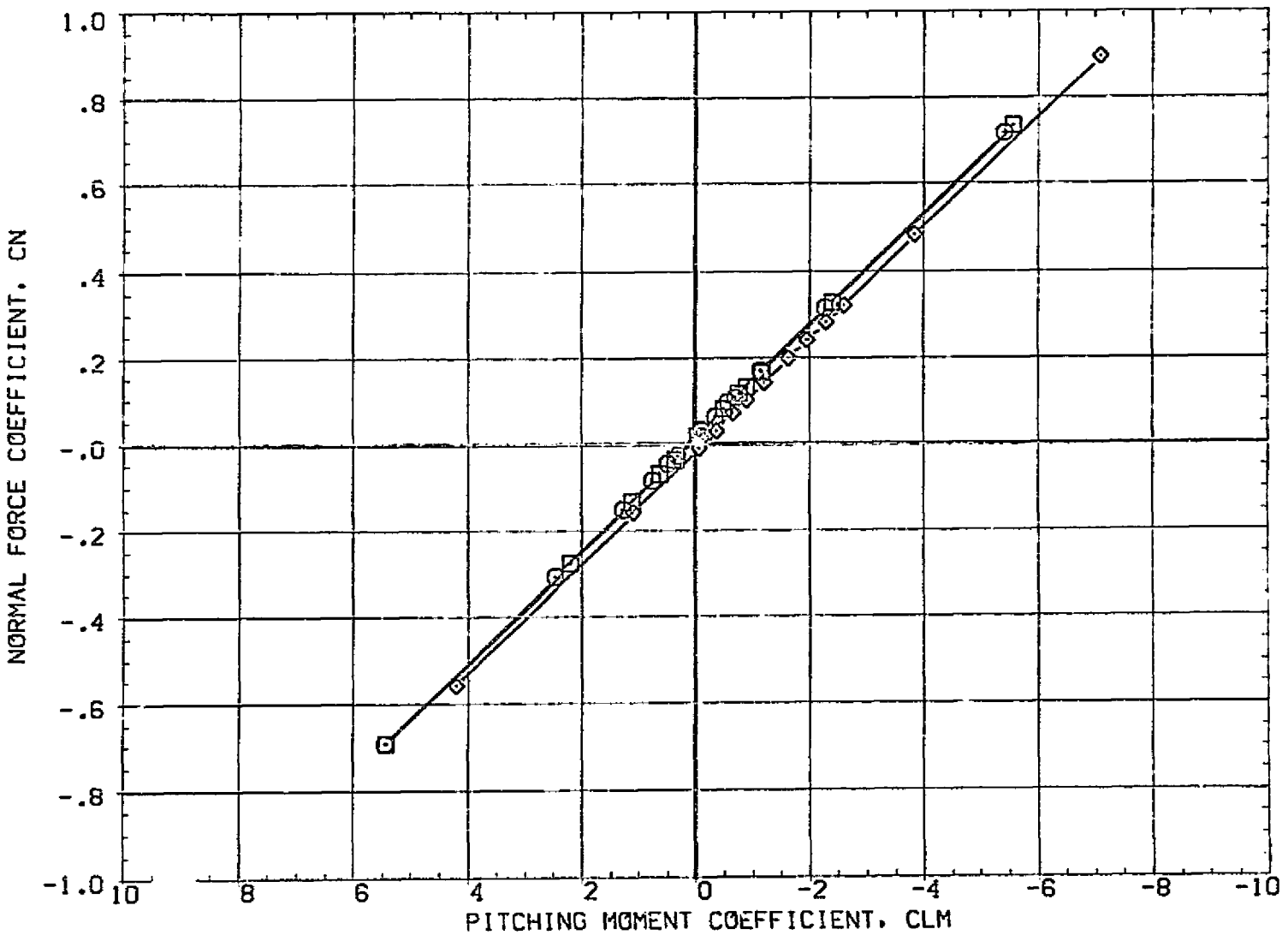
PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1006)	○	DCAT ARC 603/604 B2 F4 C
(BX1007)	□	DCAT ARC 603/604 B2 F4 C
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PBW/PF
.000	.000	40.000	86.000
.000	40.000	40.000	86.000
.000	100.000	40.000	86.000

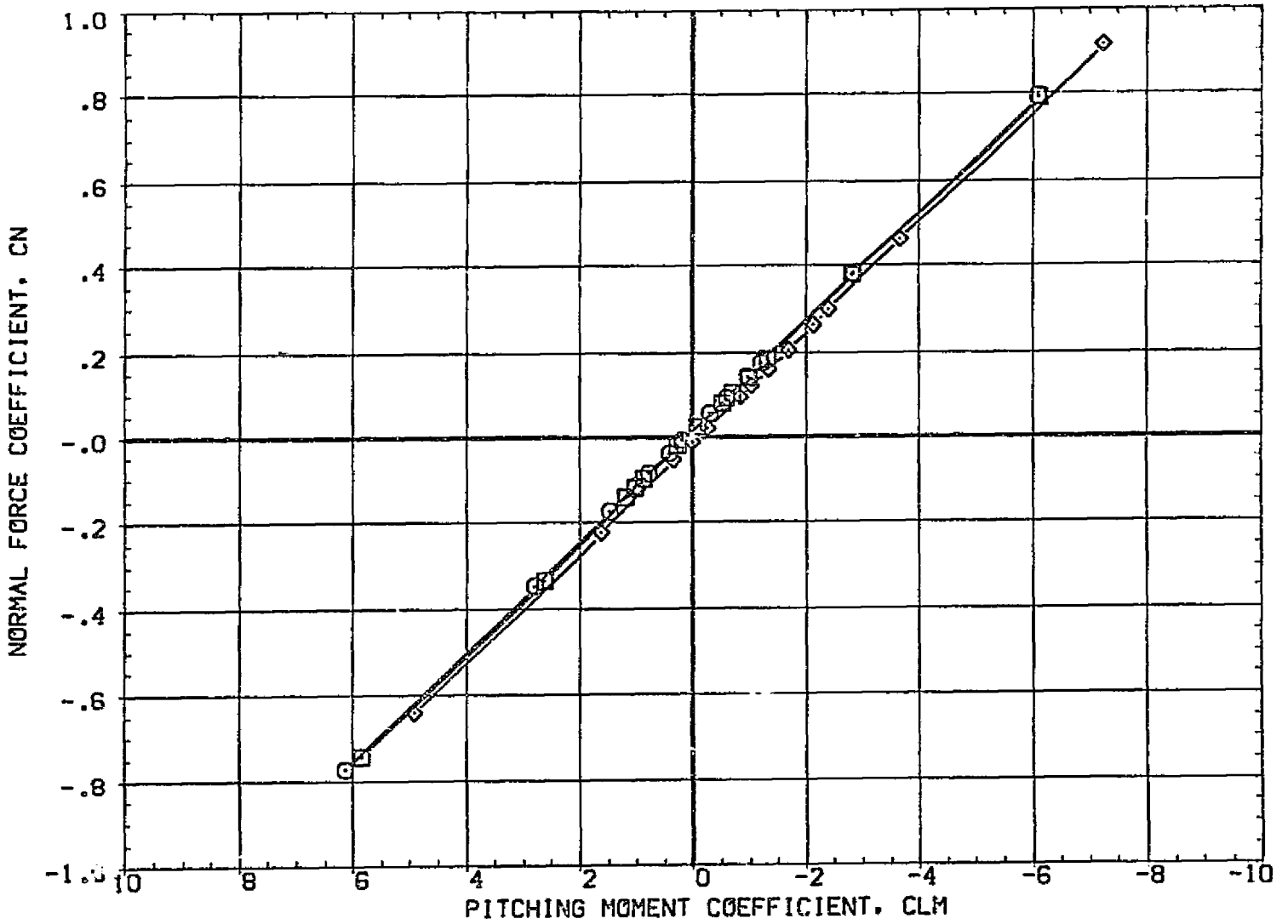
REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POL/PF
(BX1006)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1009)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

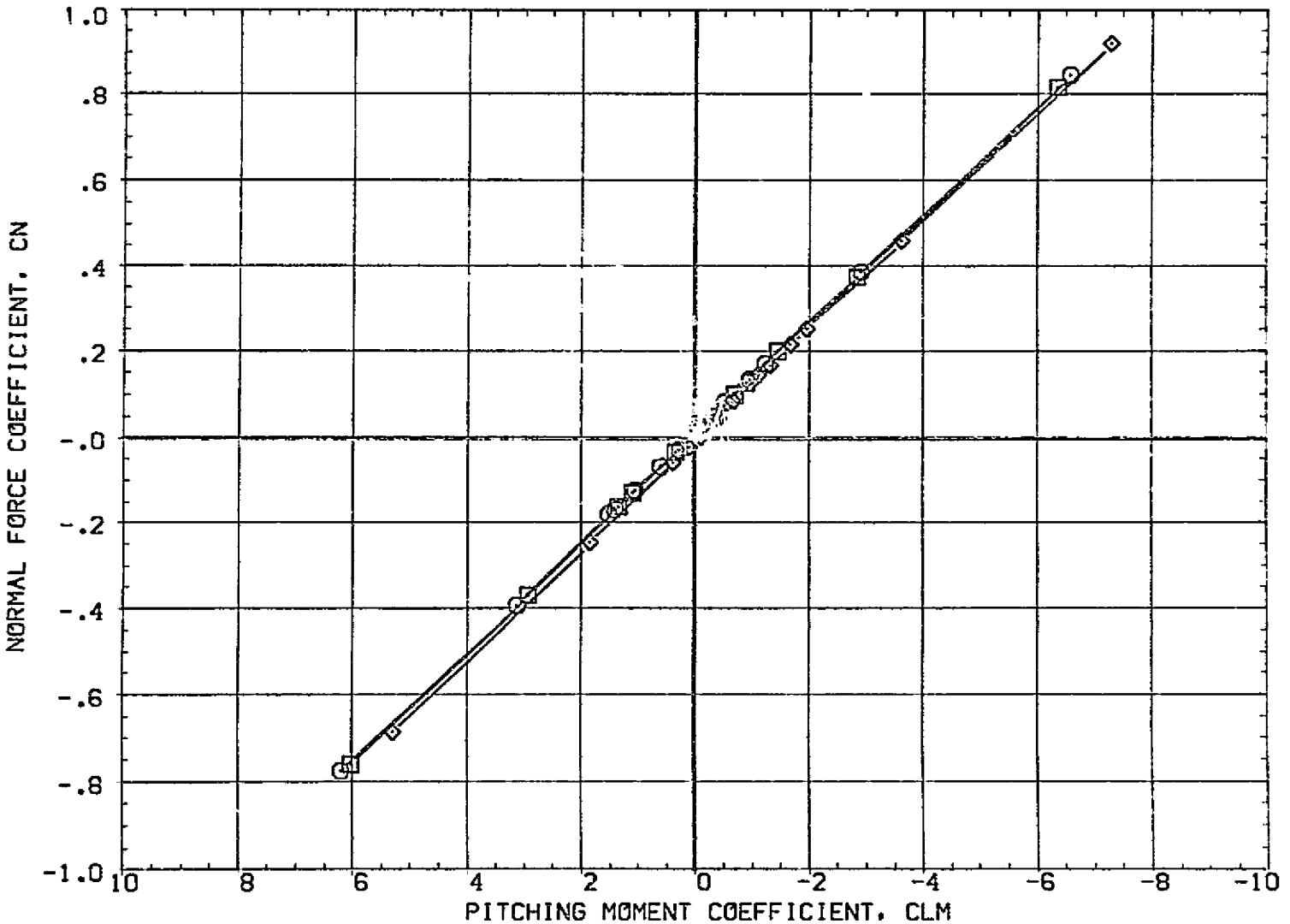


PITCH MODULATION EFFECT

(C)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1006)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1009)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

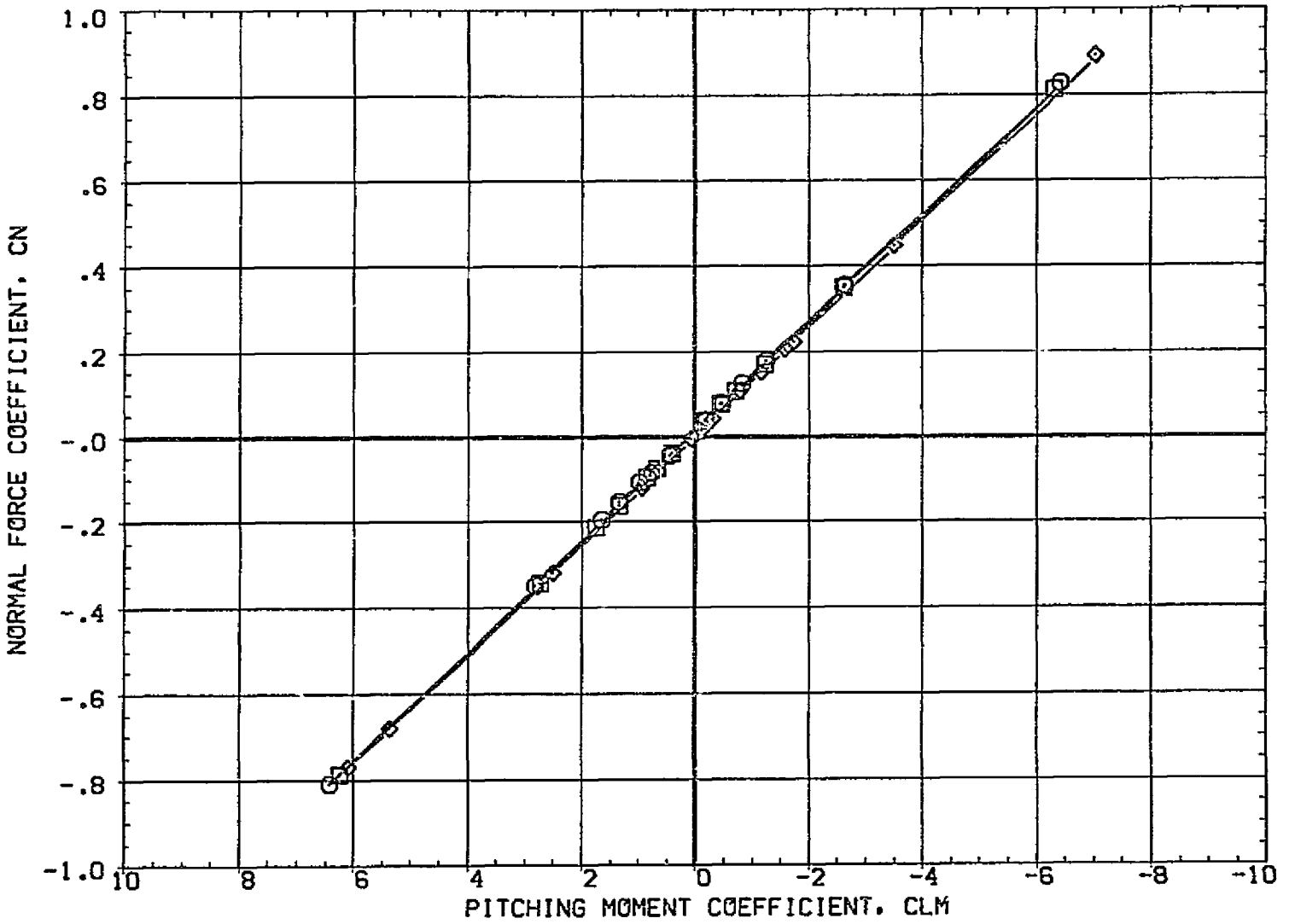


PITCH MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1006)	▢	DCAT ARC 603/604 B2 F4 C
(BX1007)	▢	DCAT ARC 603/604 B2 F4 C
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	40.000	86.000
.000	40.000	40.000	86.000
.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

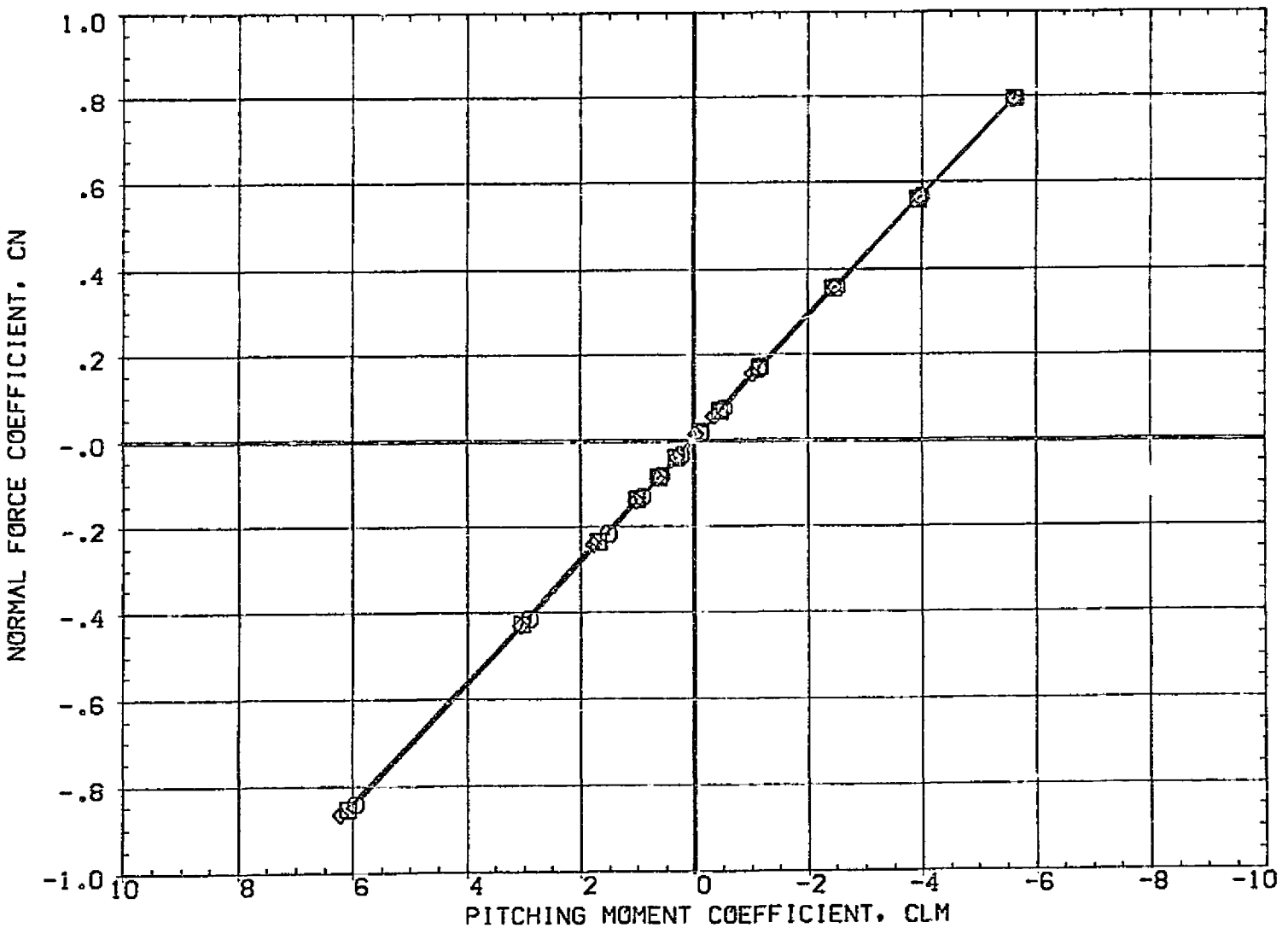


PITCH MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POL/PF
(BX1006)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	□	OCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1008)	◇	OCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

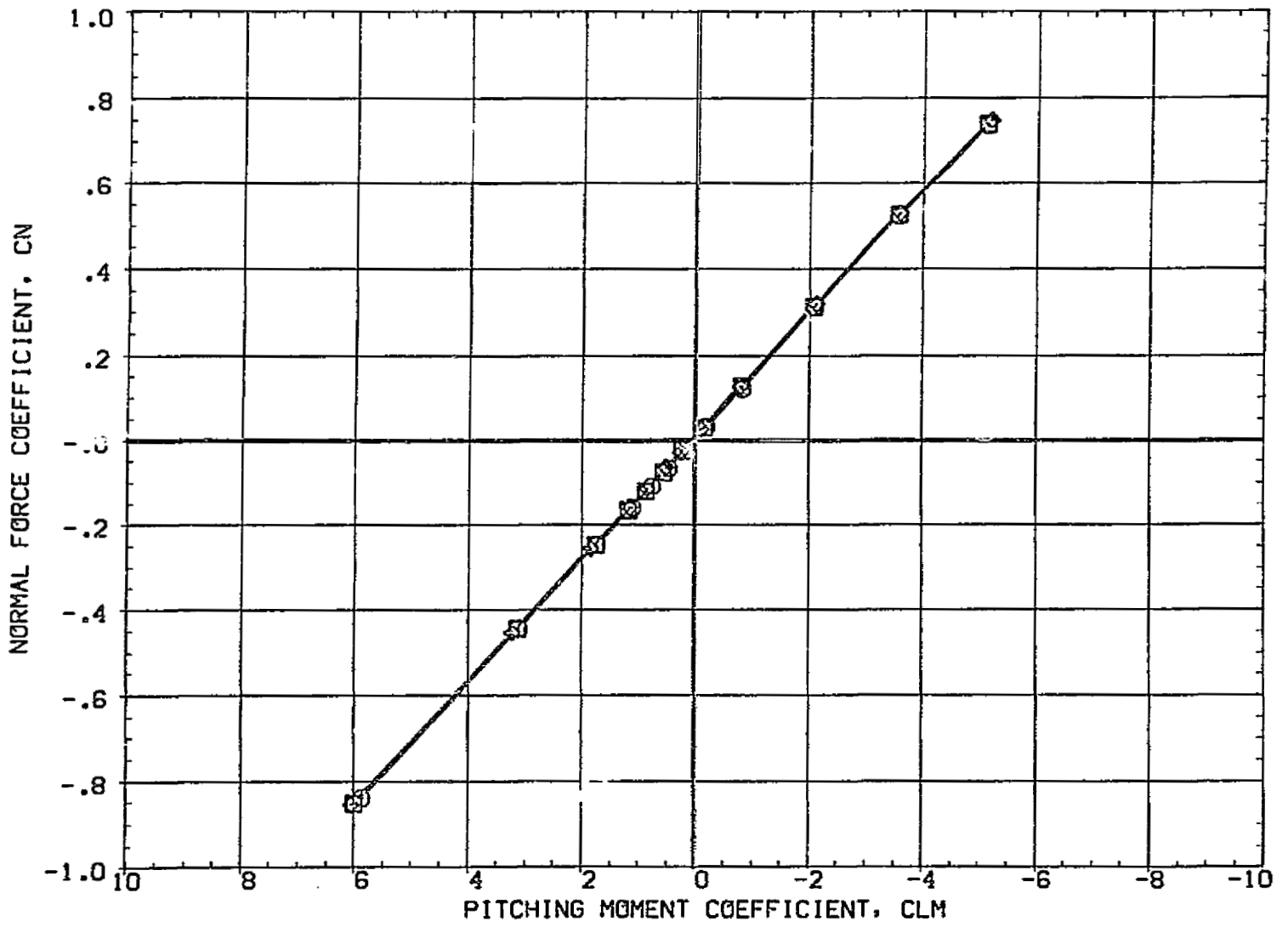


PITCH MODULATION EFFECT

(E)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1006)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

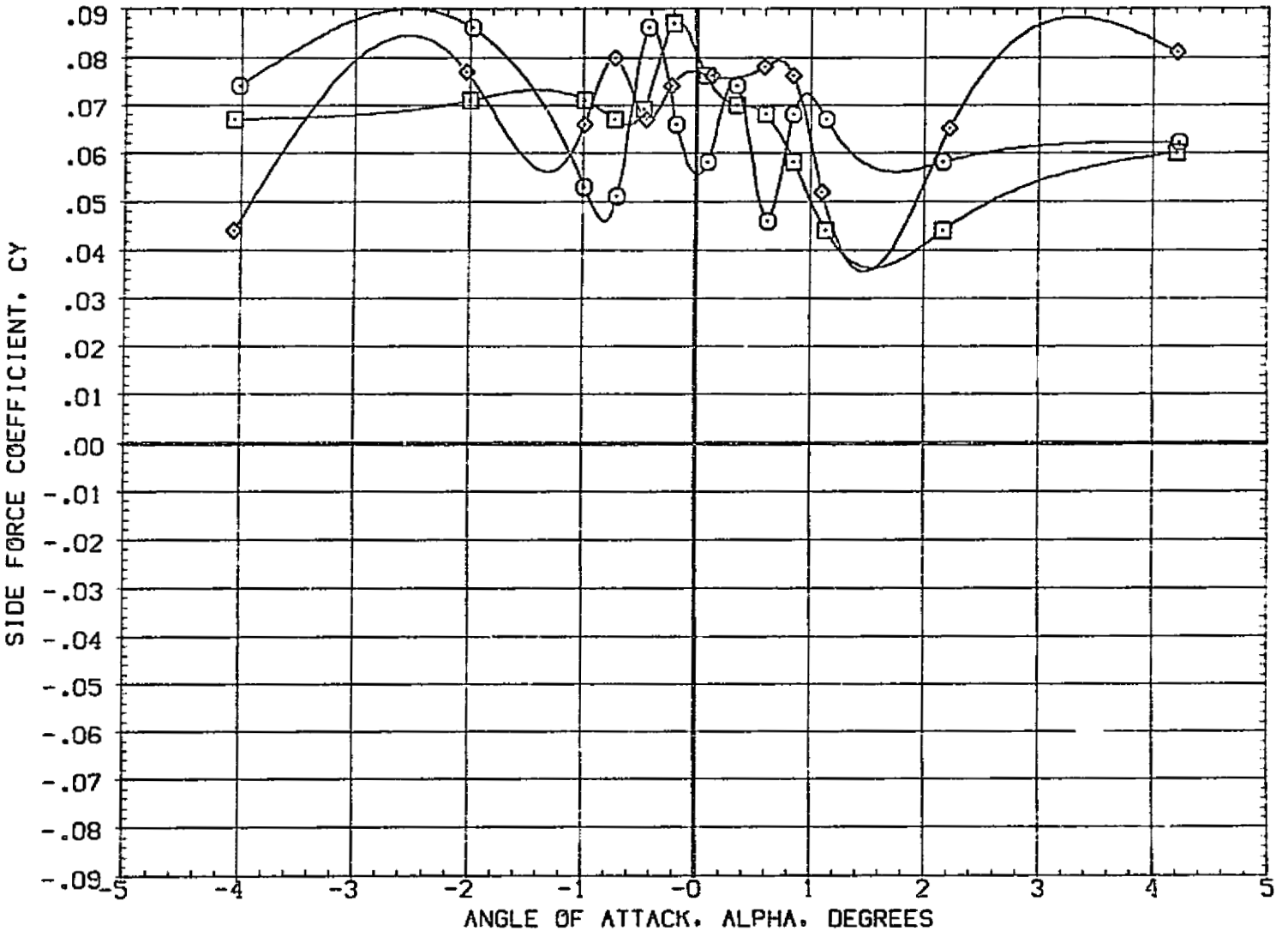


PITCH MODULATION EFFECT

(G)MACH = 1.80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POW/PF
(BX1006)	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	DCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1008)	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.3000	FT.
SCALE	125.0000	PERCNT



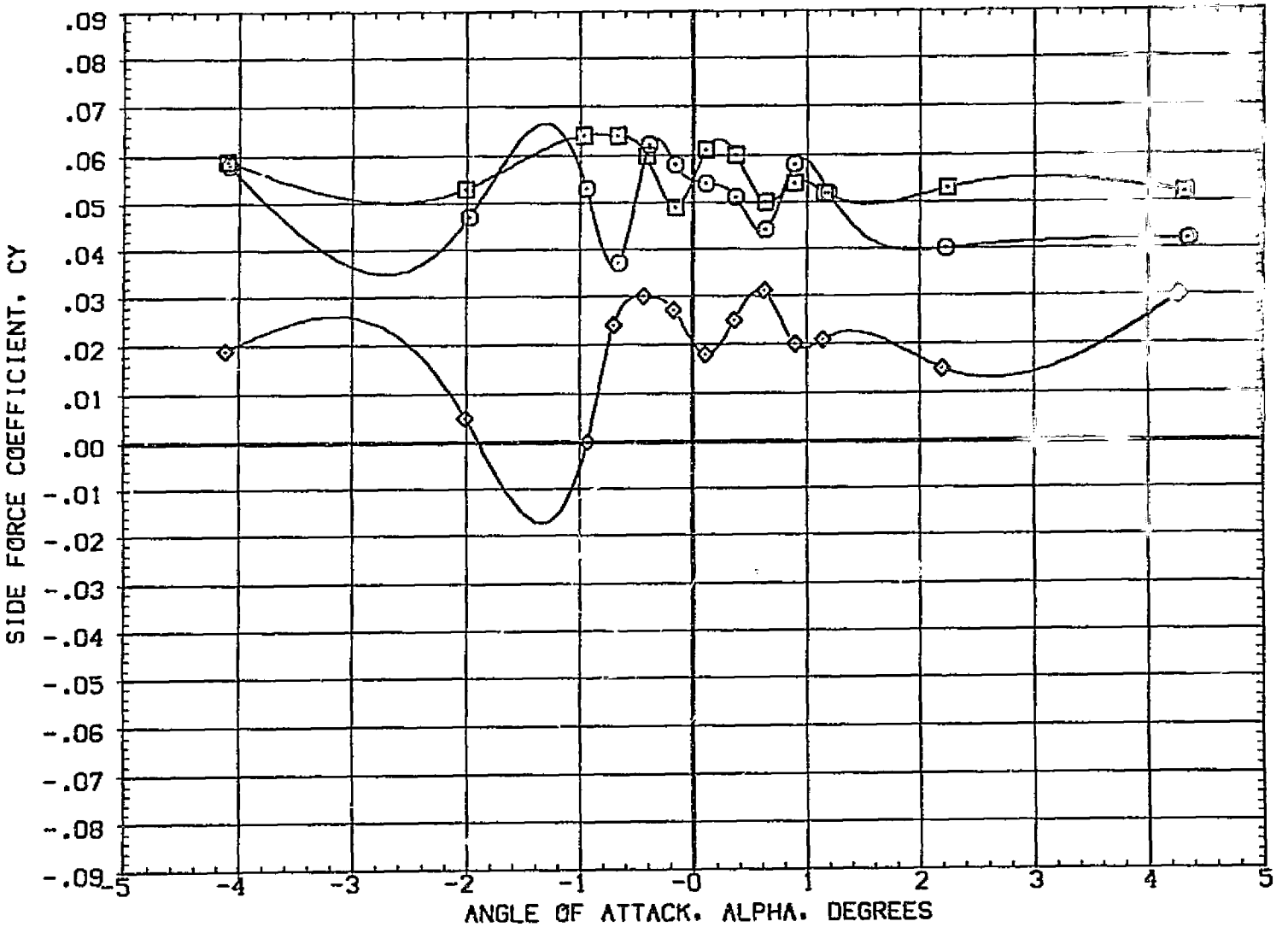
PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1006)	▢	OCAT ARC 603/604 B2 F4 C
(BX1007)	◁▷	OCAT ARC 603/604 B2 F4 C
(BX1008)	◇	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	SOU/PF
.000	.000	40.000	85.000
.000	40.000	40.000	85.000
.000	100.000	40.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

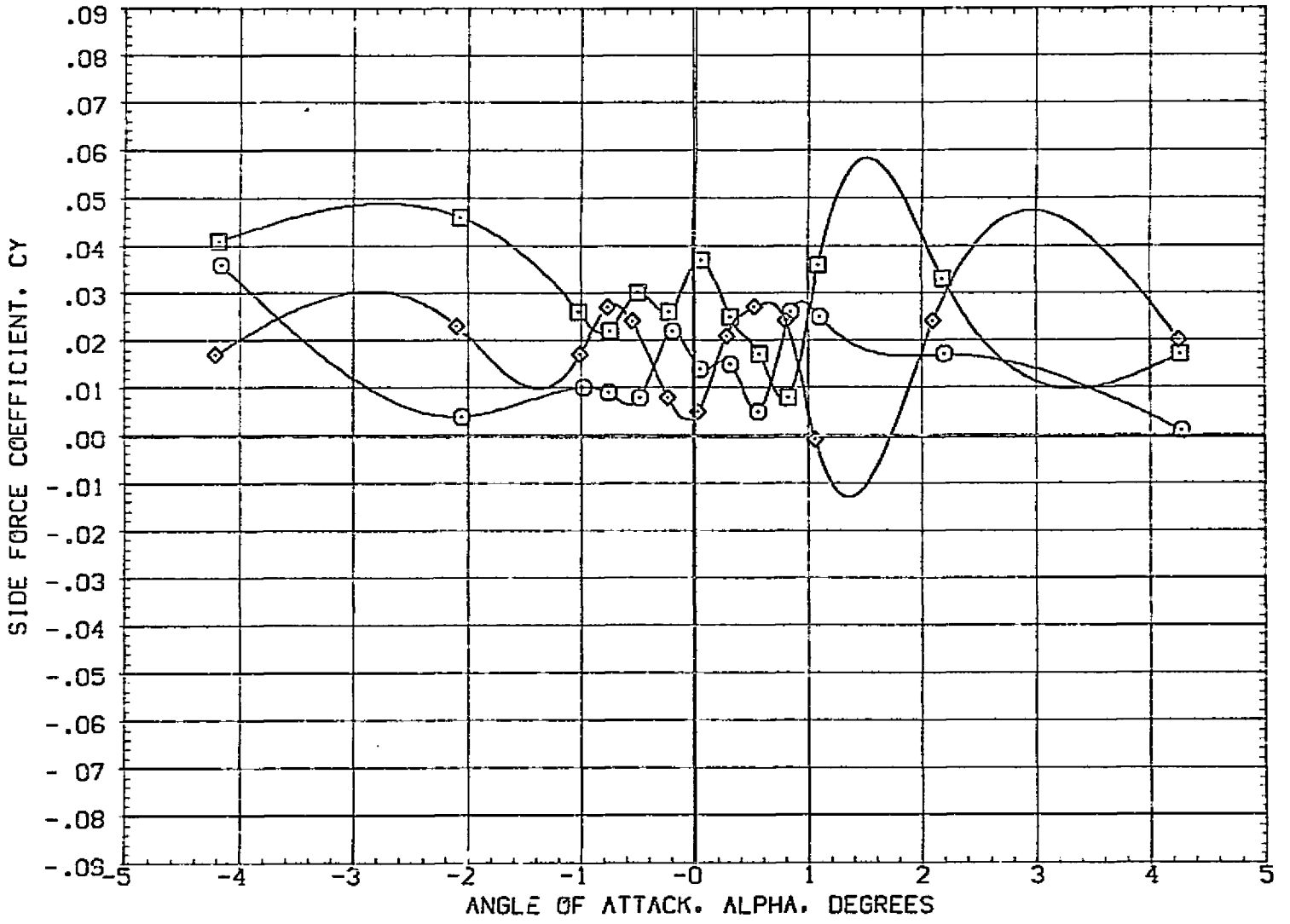


PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1006)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	□	OCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1008)	◇	OCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

(C)MACH = 0.95

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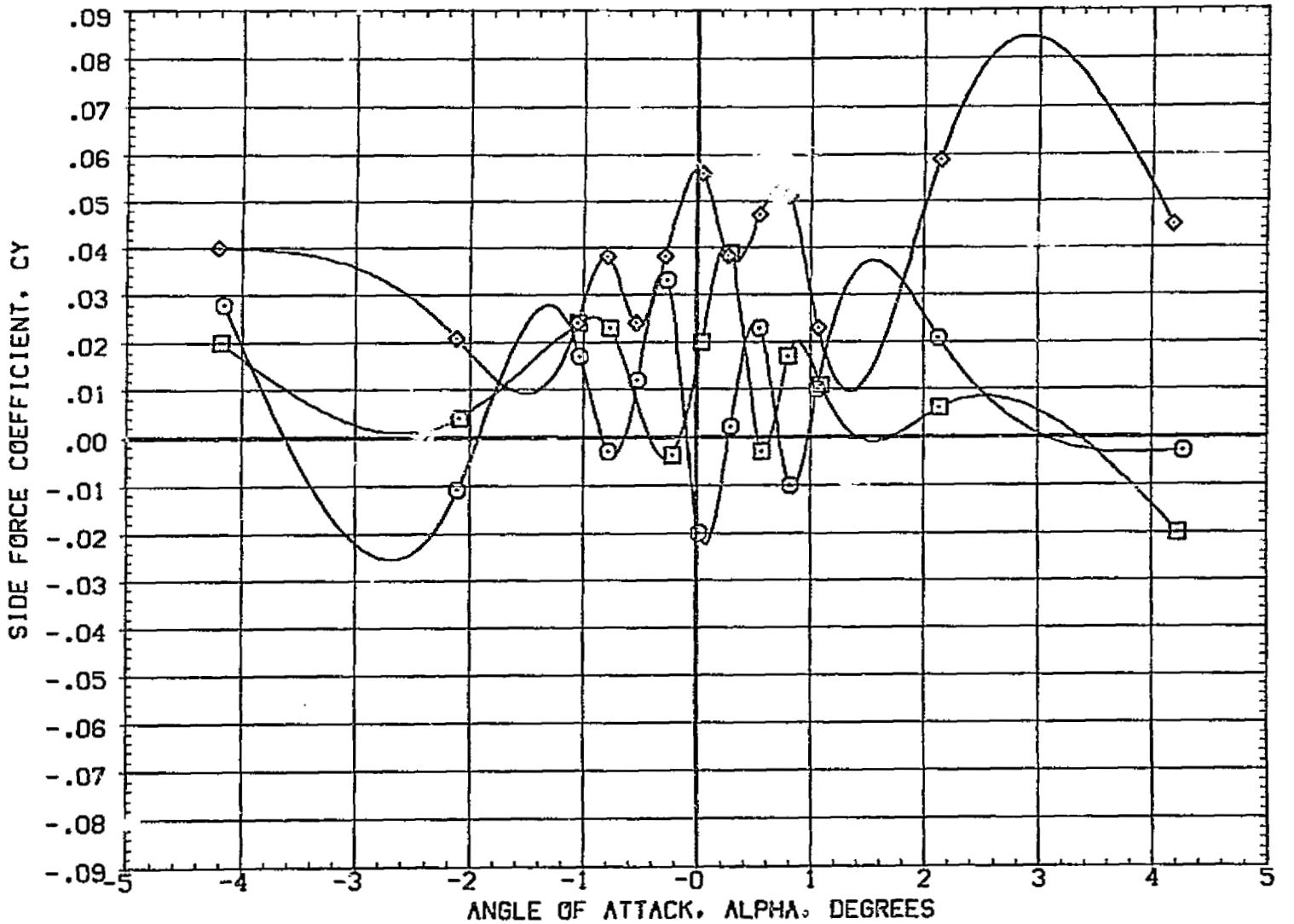
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1006)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



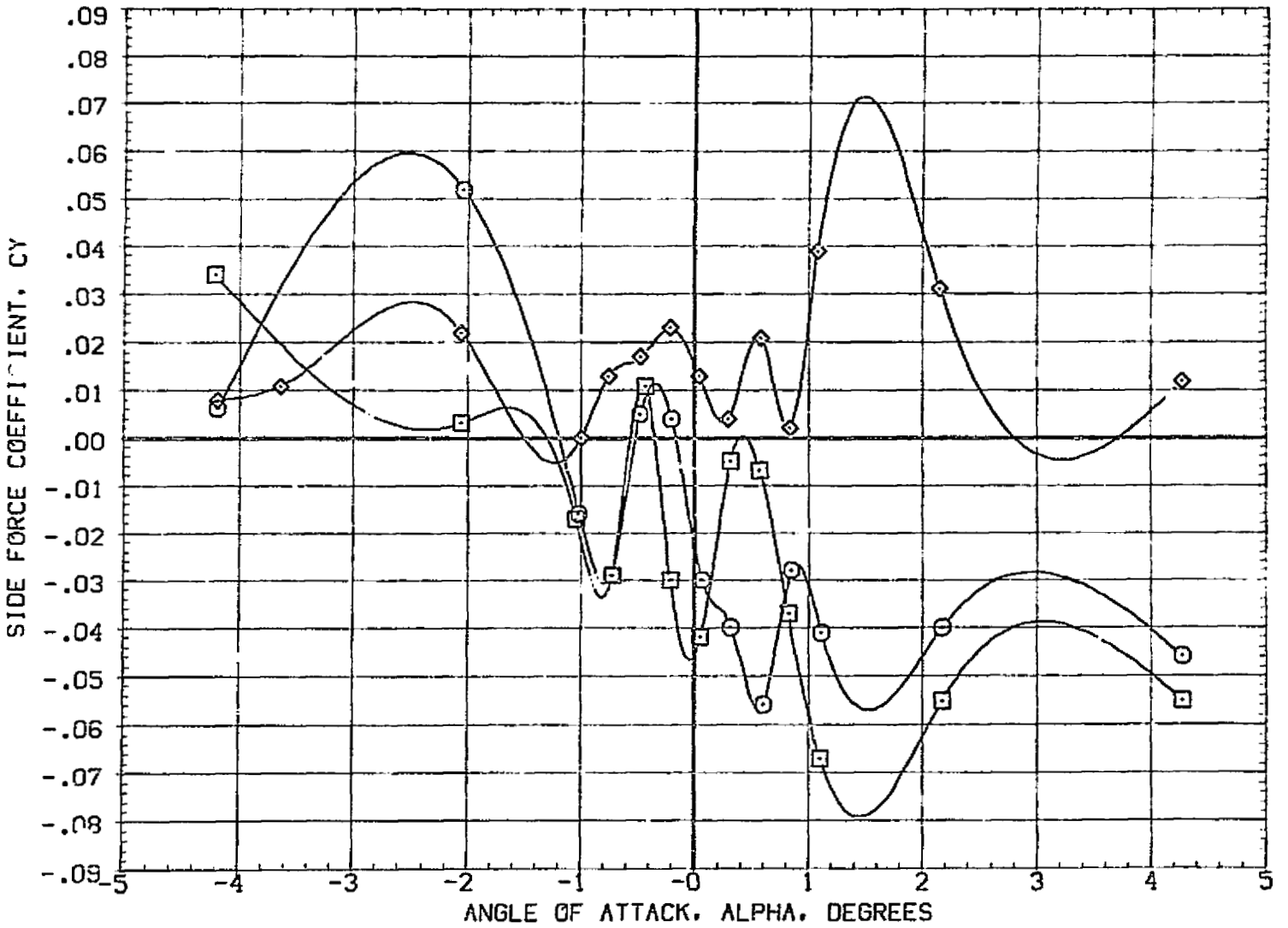
PITCH MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1006)	○	DCAT ARC 603/604 B2 F4 C
(BX1007)	□	DCAT ARC 603/604 B2 F4 C
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	40.000	86.000
.000	40.000	40.000	86.000
.000	100.000	40.000	86.000

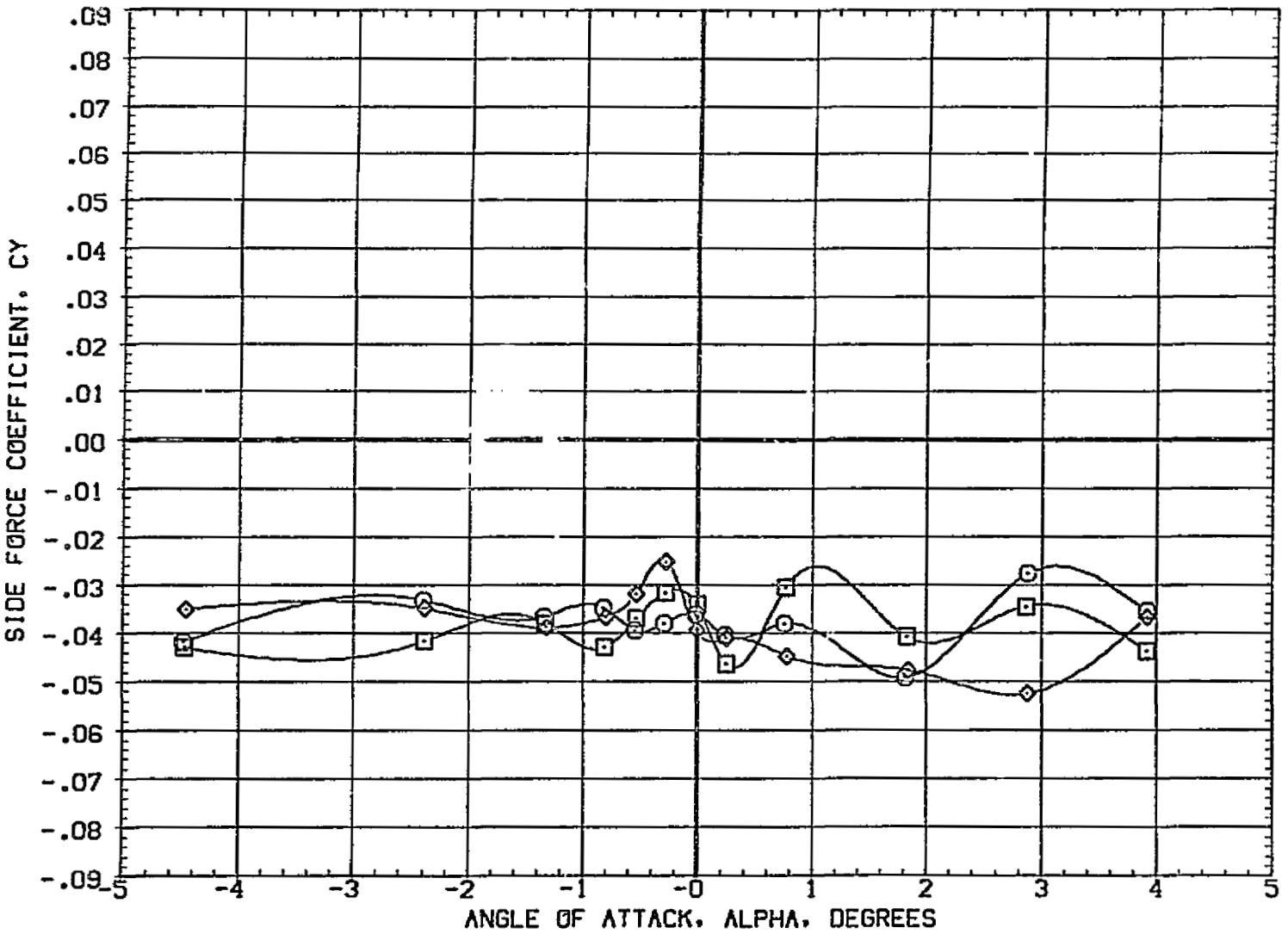
REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1006)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

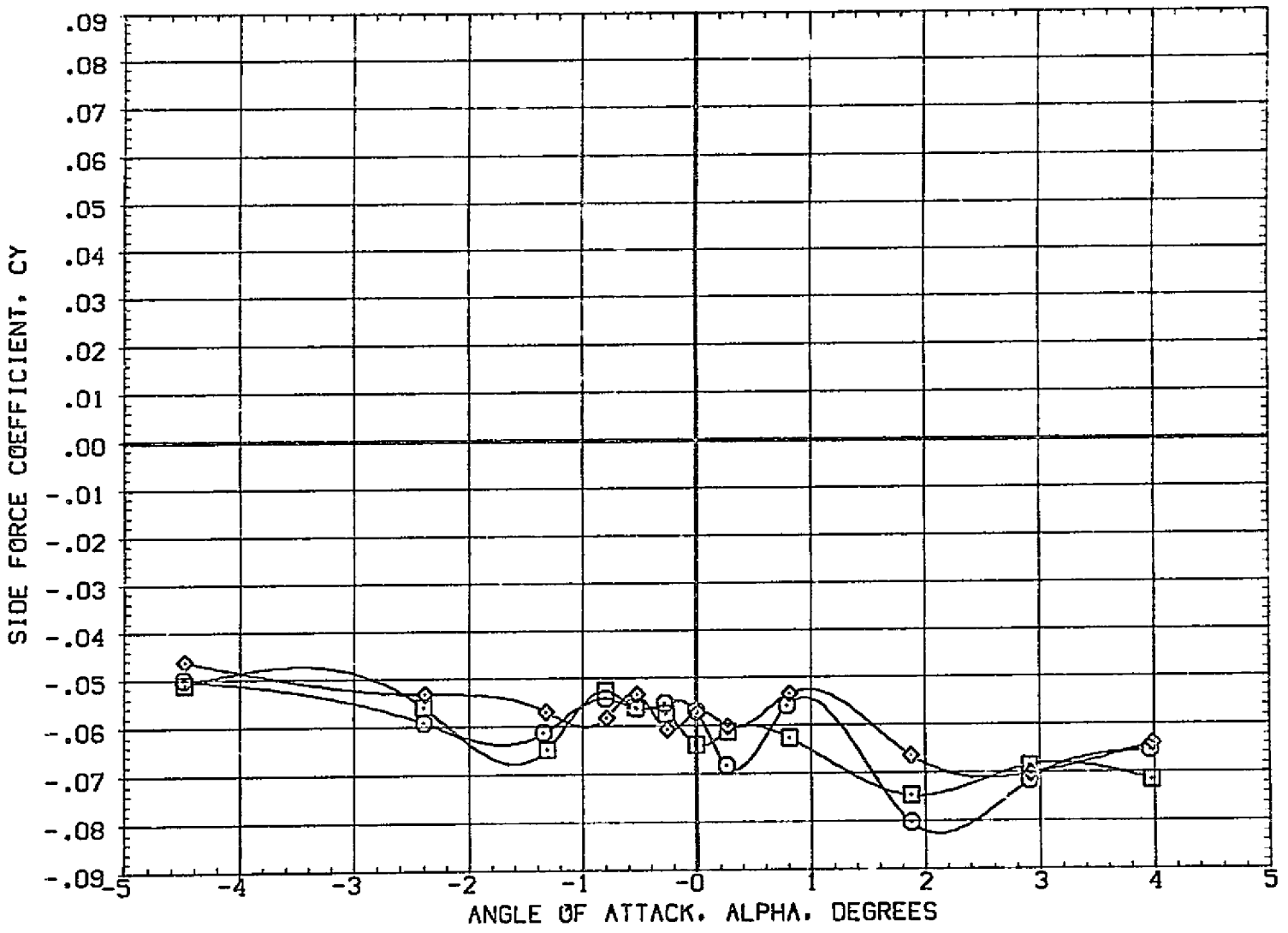


PITCH MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1006)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1007)	□	OCAT ARC 603/604 B2 F4 C	.000	40.000	40.000	86.000
(BX1008)	◇	OCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

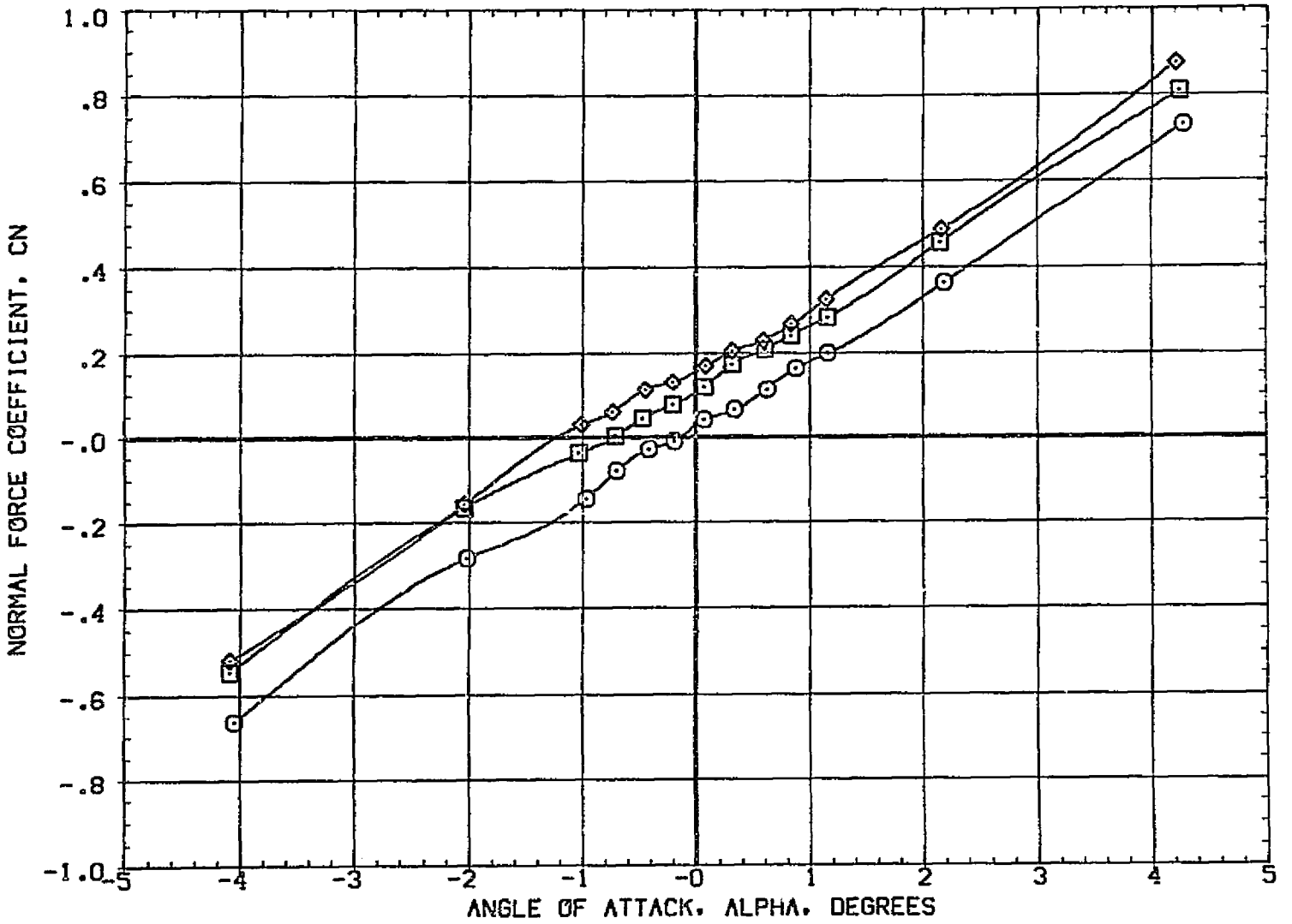


PITCH MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1009)	○	DCAT ARC 603/604 B2 F4 C
(BX1010)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	60.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

(A)MACH = 0.64

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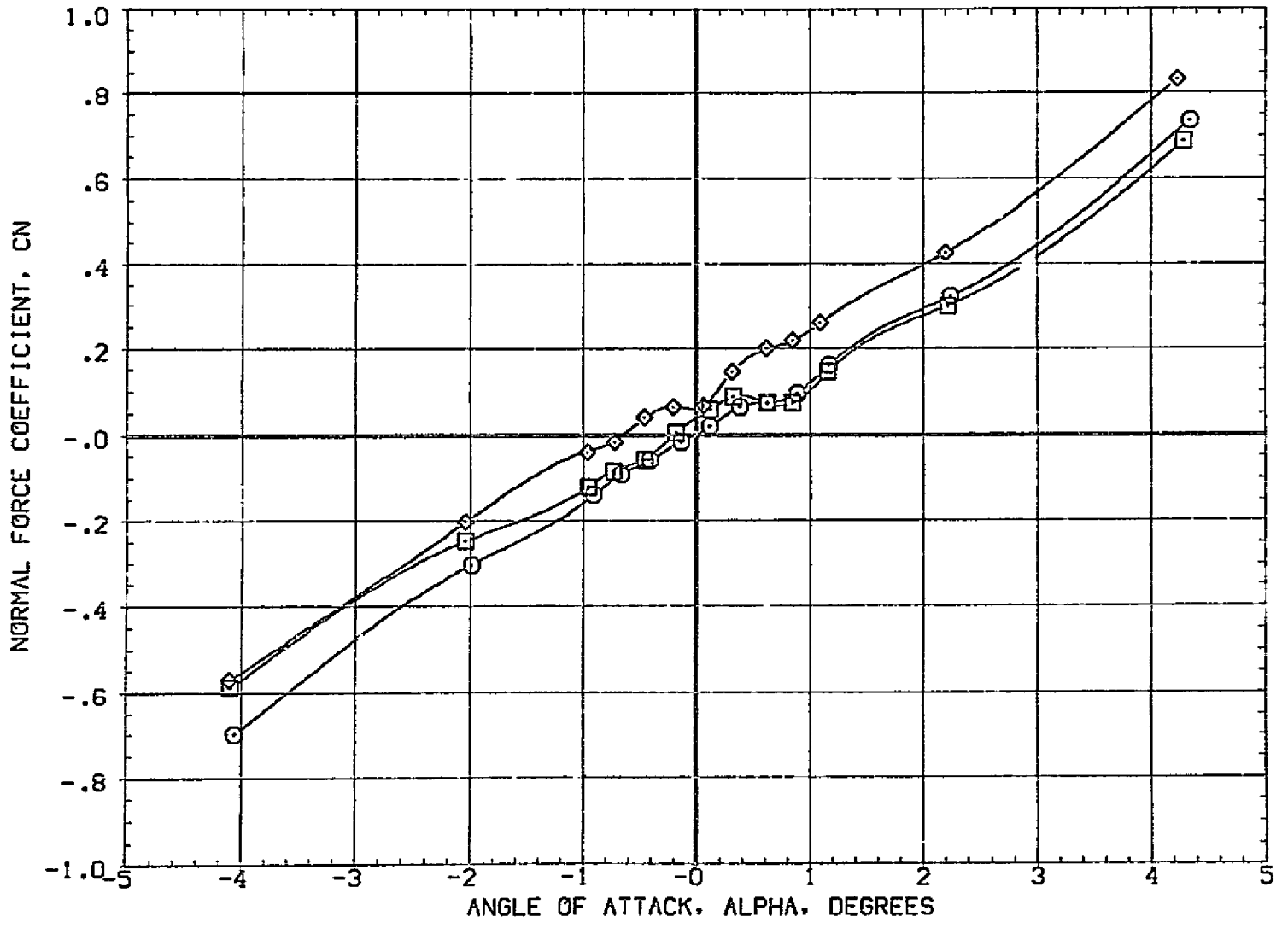
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1009)	□	OCAT ARC 603/604 [illegible] F4 C	.000	.000	60.000	86.000
(BX1010)	□	OCAT ARC 603/604 B2 F4 C	.000	60.000	60.000	86.000
(BX1011)	◇	OCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



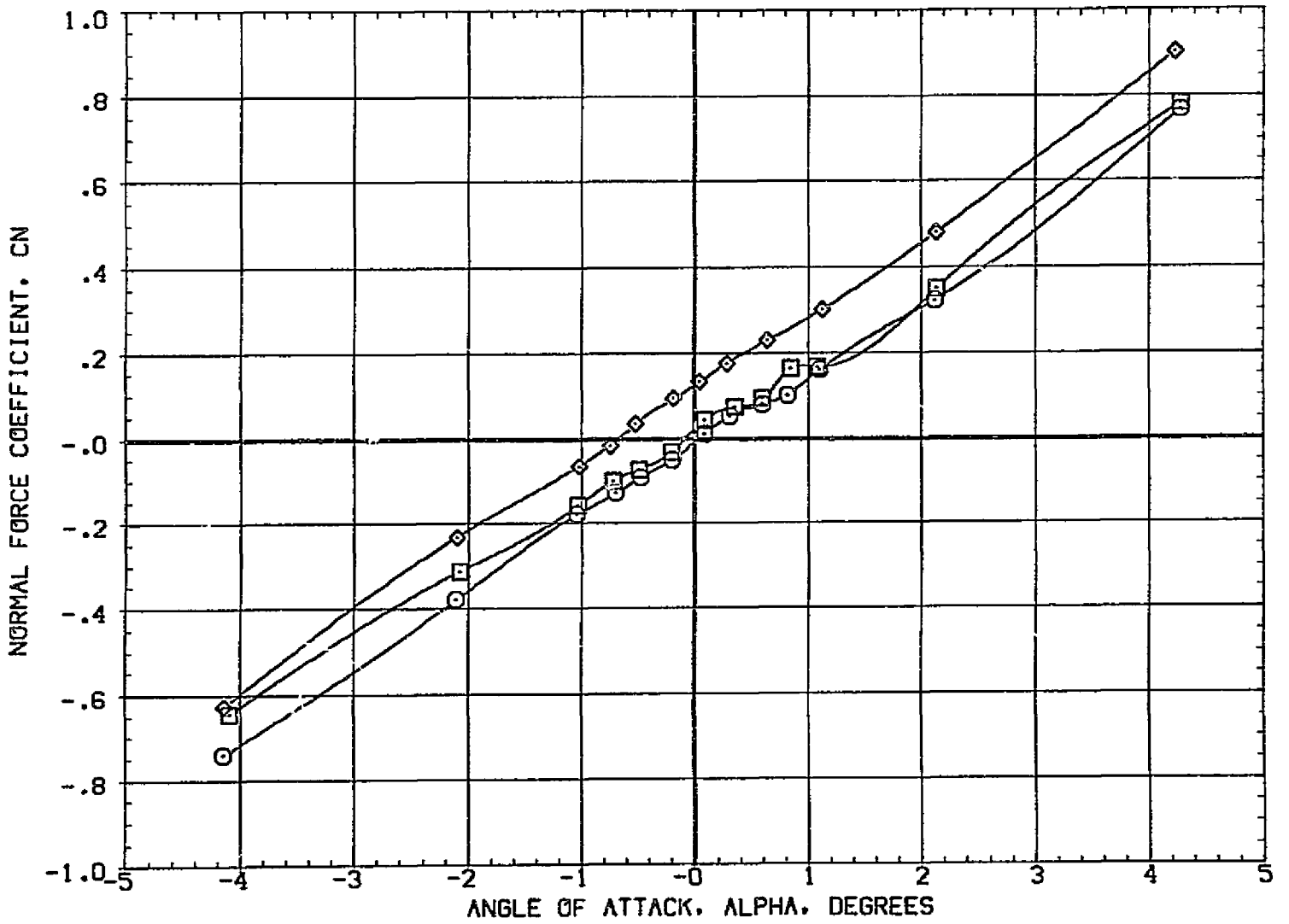
PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1009)	○	DCAT ARC 603/604 B2 F4 C
(BX1010)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	60.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



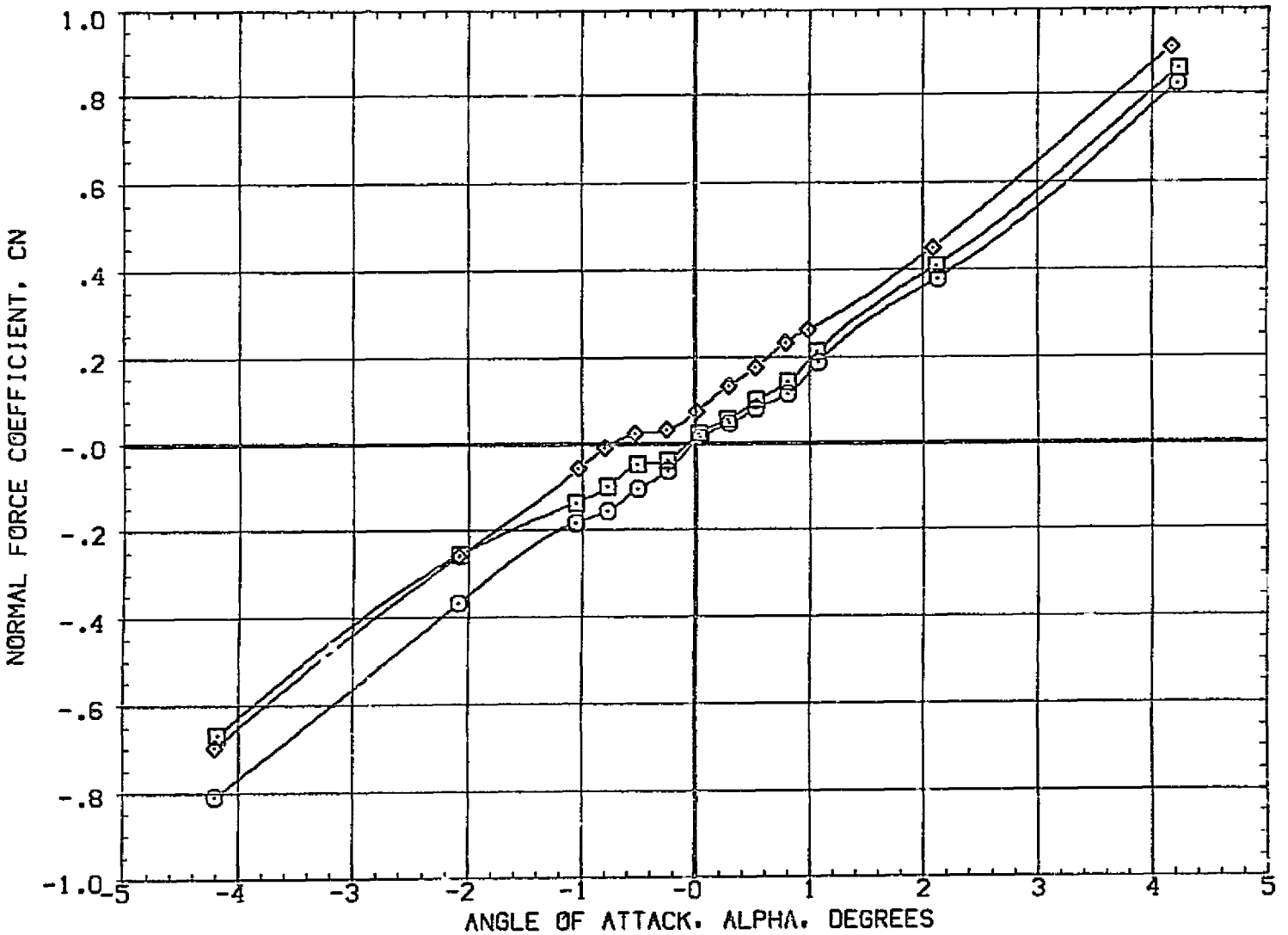
PITCH MODULATION EFFECT

(C)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1009)	▢	OCAT ARC 603/604 B2 F4 C
(BX1010)	▢	OCAT ARC 603/604 B2 F4 C
(BX1011)	◇	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PDJ/PF
.000	.000	60.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



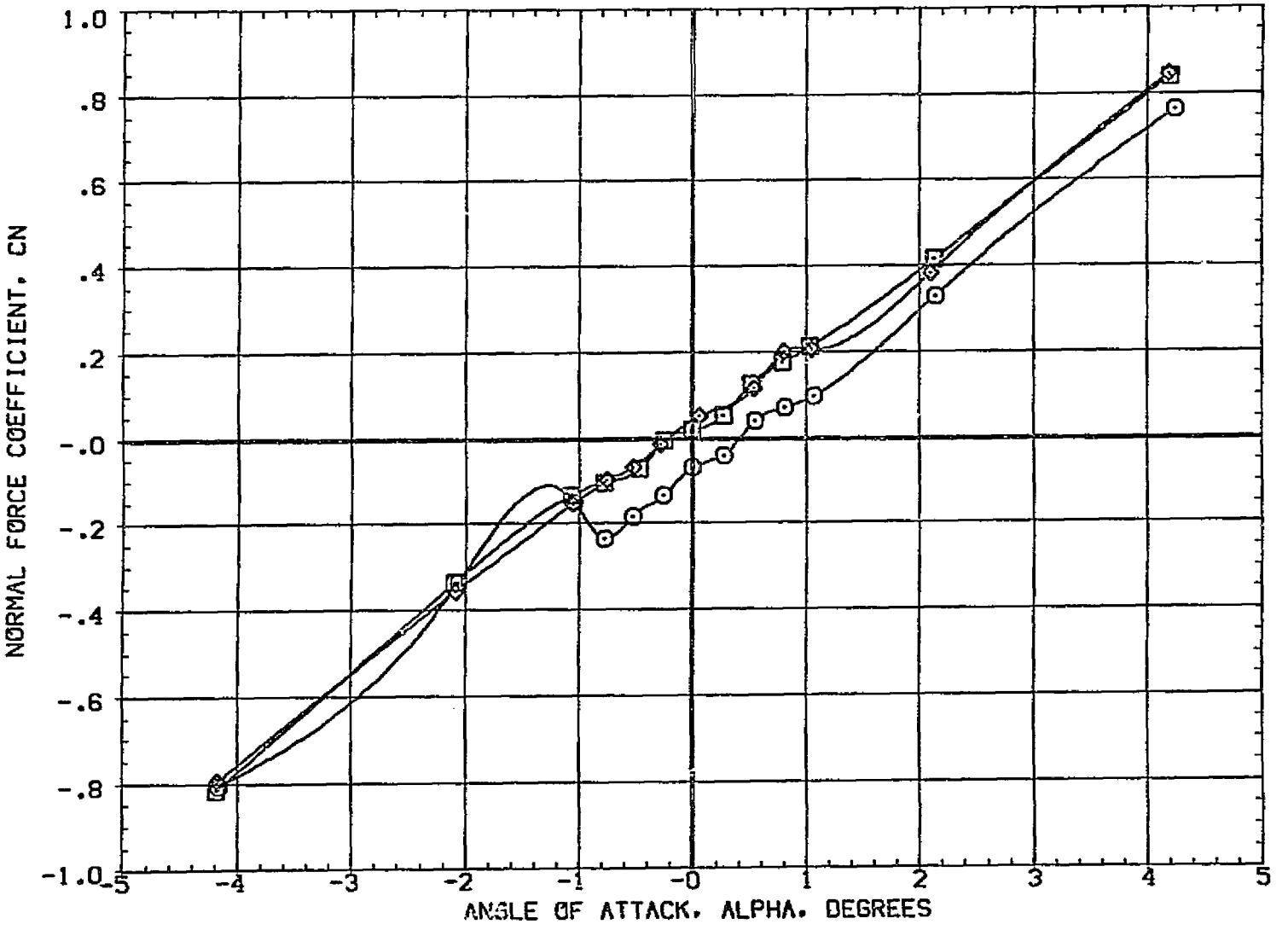
PITCH MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1009)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1010)	□	DCAT ARC 603/604 B2 F4 C	.000	60.000	60.000	86.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

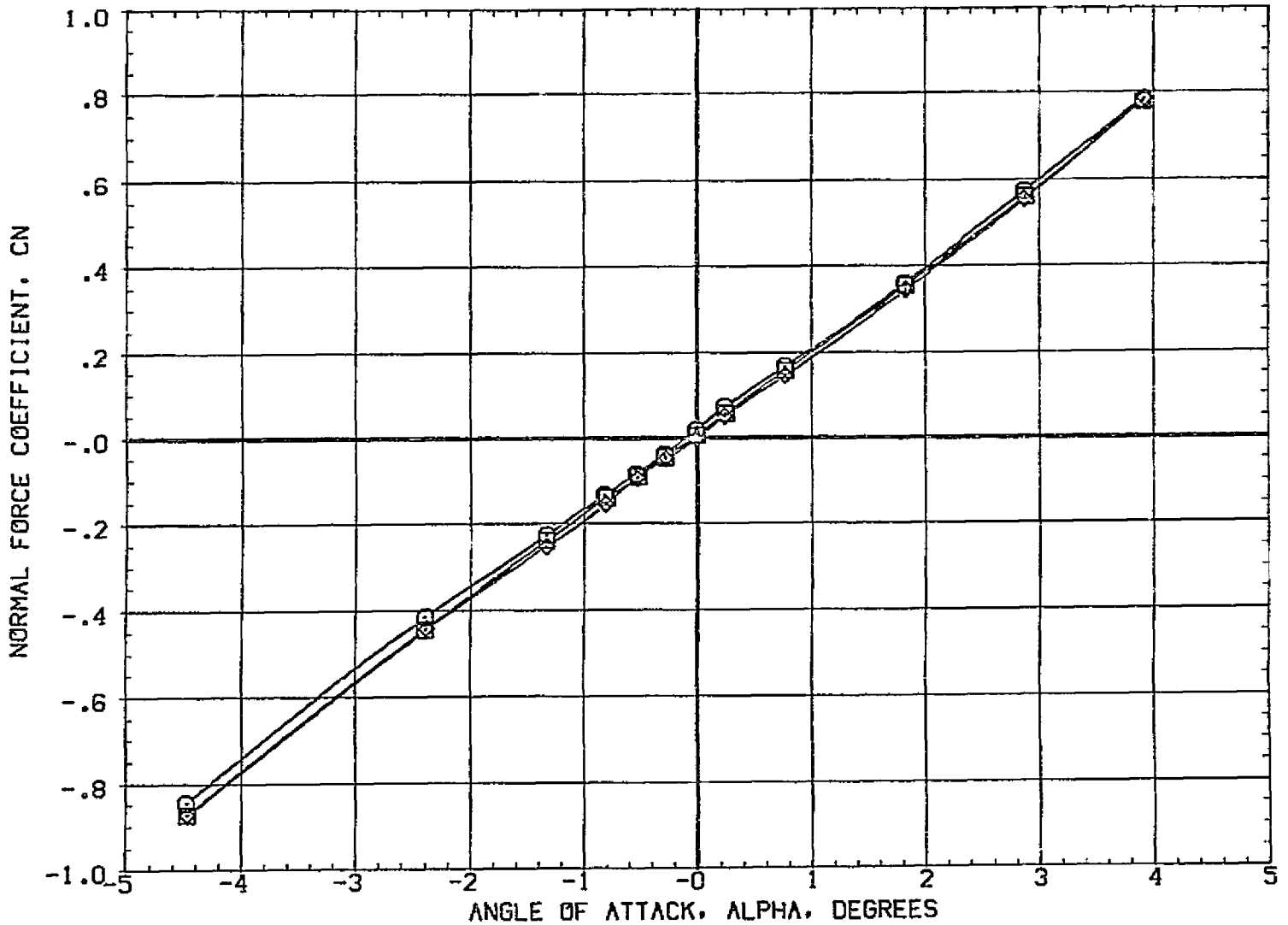
(E)MACH = 1.09

100<

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1009)	□	DCAT ARC 603/604 B2 F4 C
(BX1010)	▭	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POS/PF
.000	.000	60.000	66.000
.000	60.000	60.000	66.000
.000	100.000	60.000	66.000

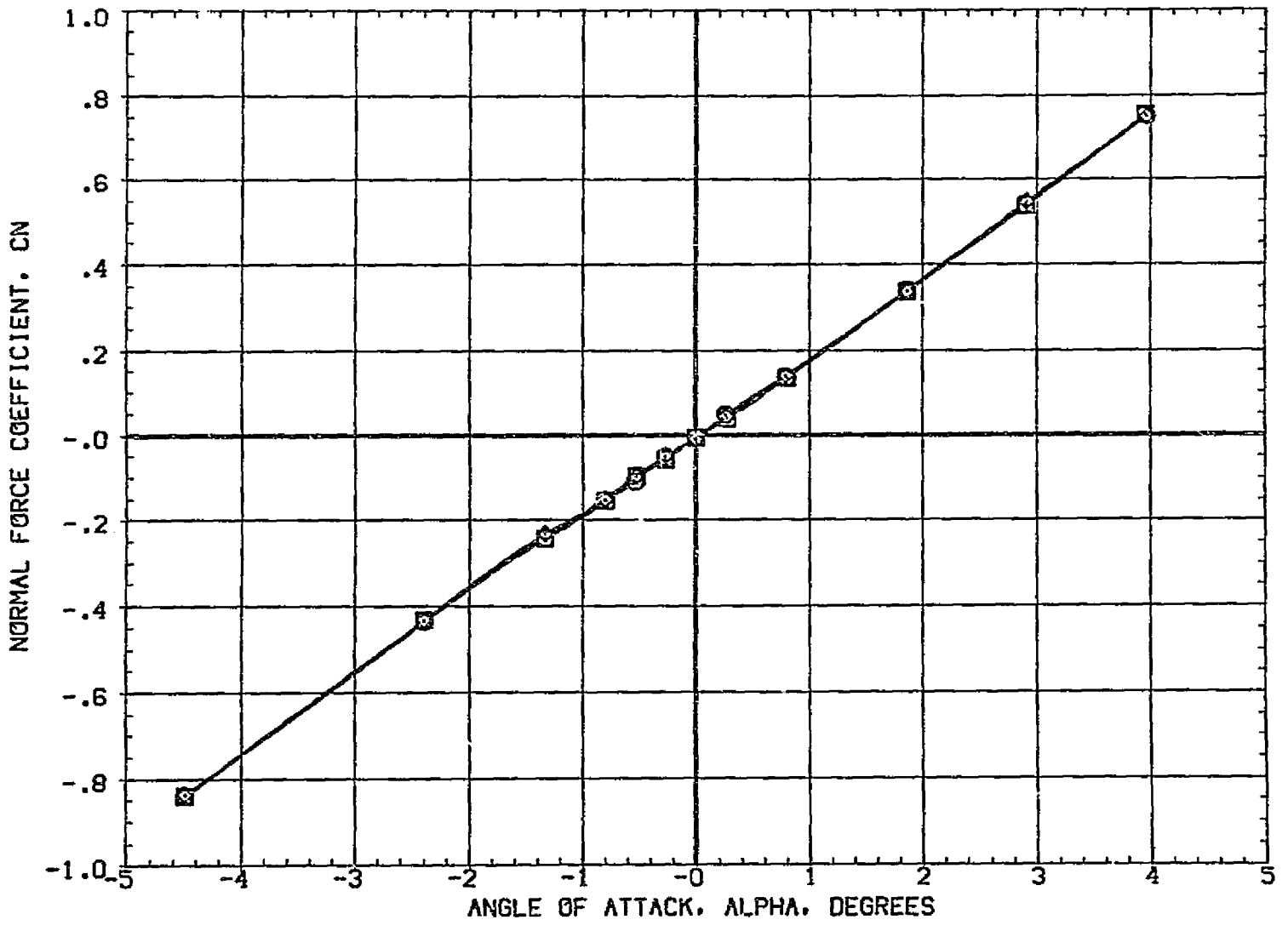
REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POL/PF
(BX1009)		DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1010)		DCAT ARC 603/604 B2 F4 C	.000	60.000	60.000	86.000
(BX1011)		DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



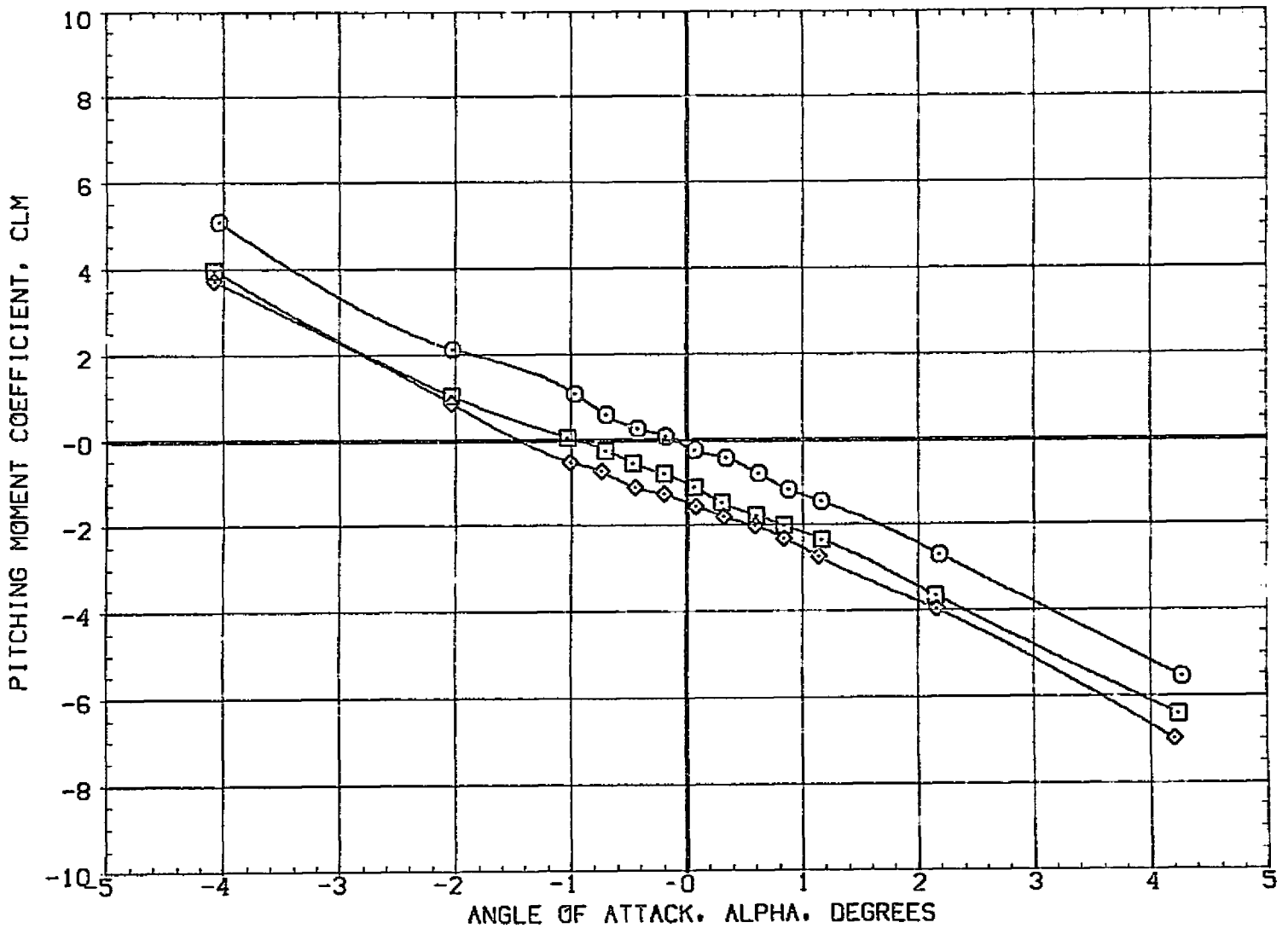
PITCH MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1009)	○	DCAT ARC 603/604 B2 F4 C
(BX1010)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	60.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

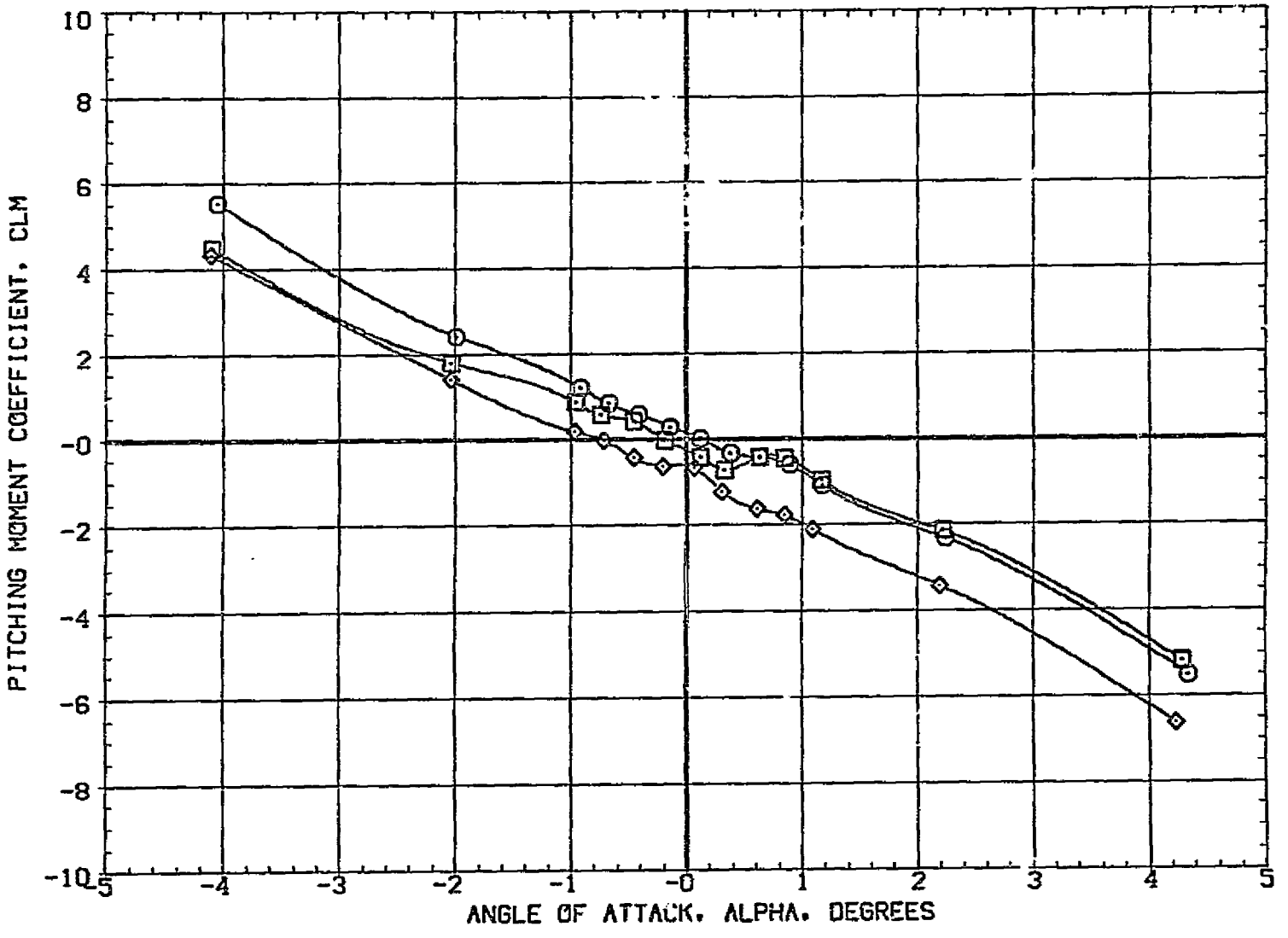
(A)MACH = 0.64

103

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1009)	○	DCAT ARC 603/604 B2 F4 C
(BX1010)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C

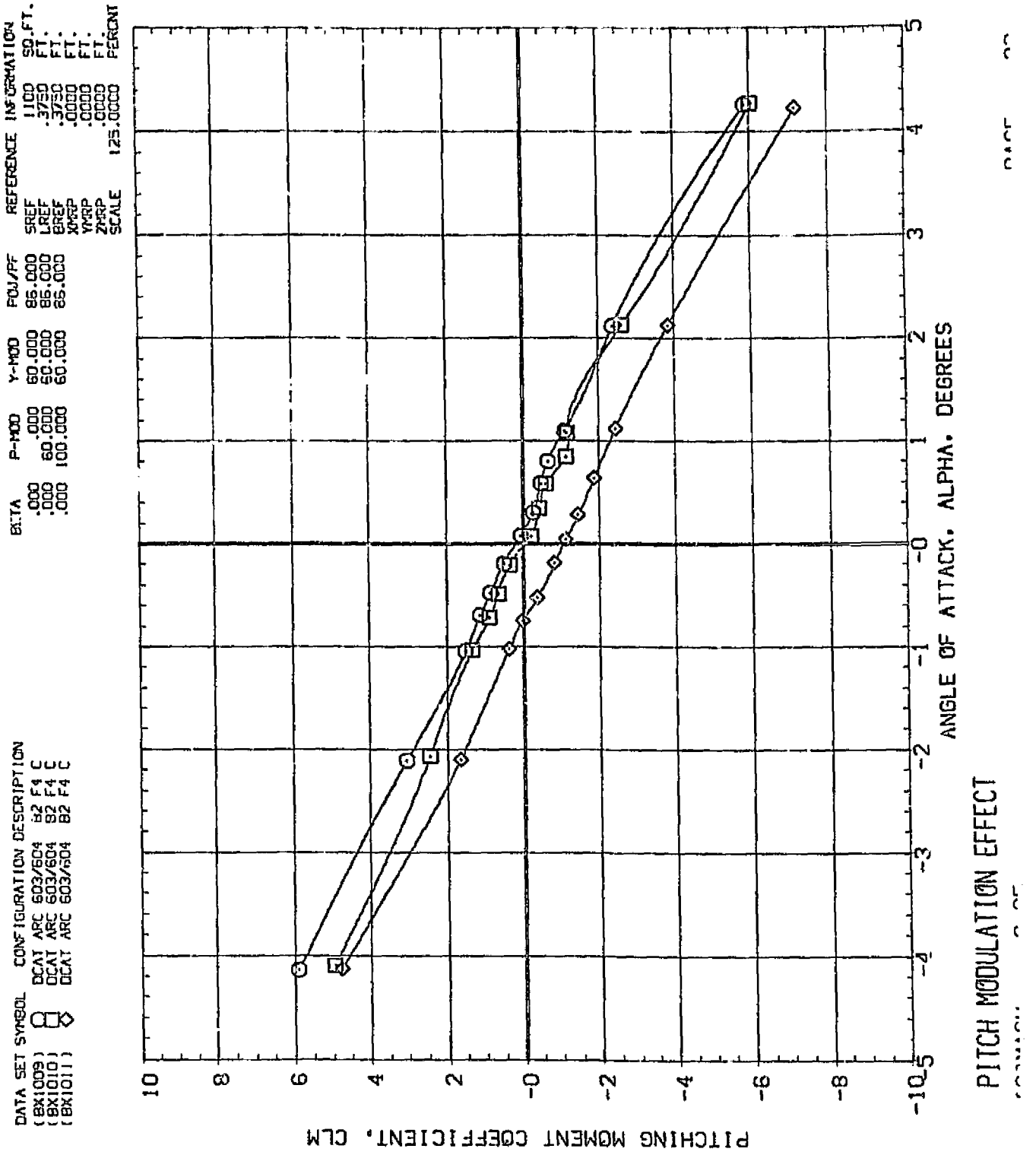
BETA	P-MOD	Y-MOD	POL/PF
.000	.000	60.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

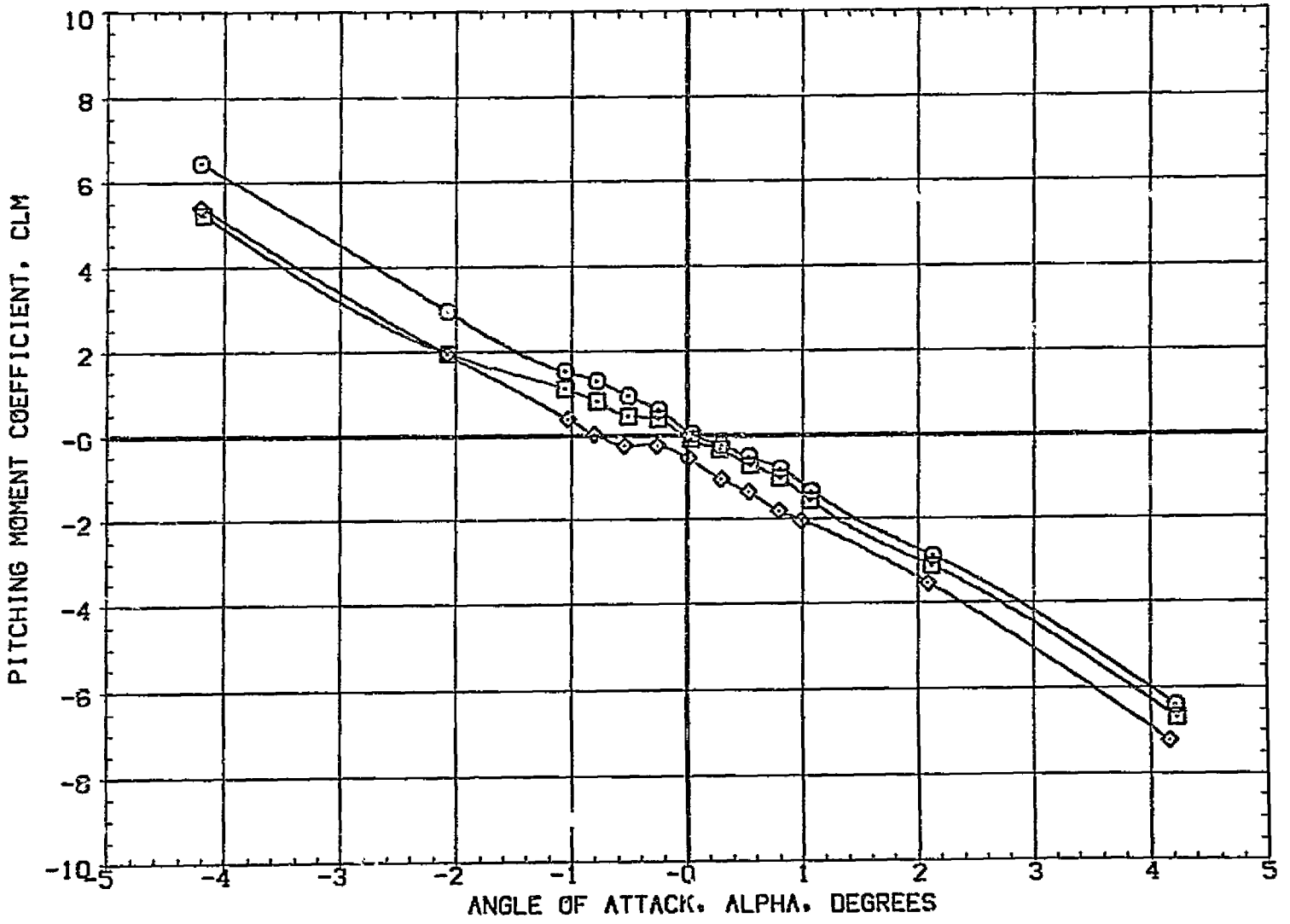
(B)MACH = 0.80


PITCH MODULATION EFFECT
ANGLE OF ATTACK, ALPHA, DEGREES
PITCHING MOMENT COEFFICIENT, CLM
DATA SET SYMBOL CONFIGURATION DESCRIPTION
(BX1009) DCAT ARC 603/604 B2 F4 C
(BX1010) DCAT ARC 603/604 B2 F4 C
(BX1011) DCAT ARC 603/604 B2 F4 C
BETA P-MOD Y-MOD POV/FF
.000 .000 60.000 86.000
.000 60.000 60.000 86.000
.000 100.000 60.000 86.000
REFERENCE INFORMATION
SREF 1100 SQ.FT.
LREF .3750 FT.
BREF .3750 FT.
XMRP .0000 FT.
YMRP .0000 FT.
ZMRP .0000 FT.
SCALE 125.0000 PERCENT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1009)	○	DCAT ARC 603/604 B2 F4 C
(BX1010)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	60.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

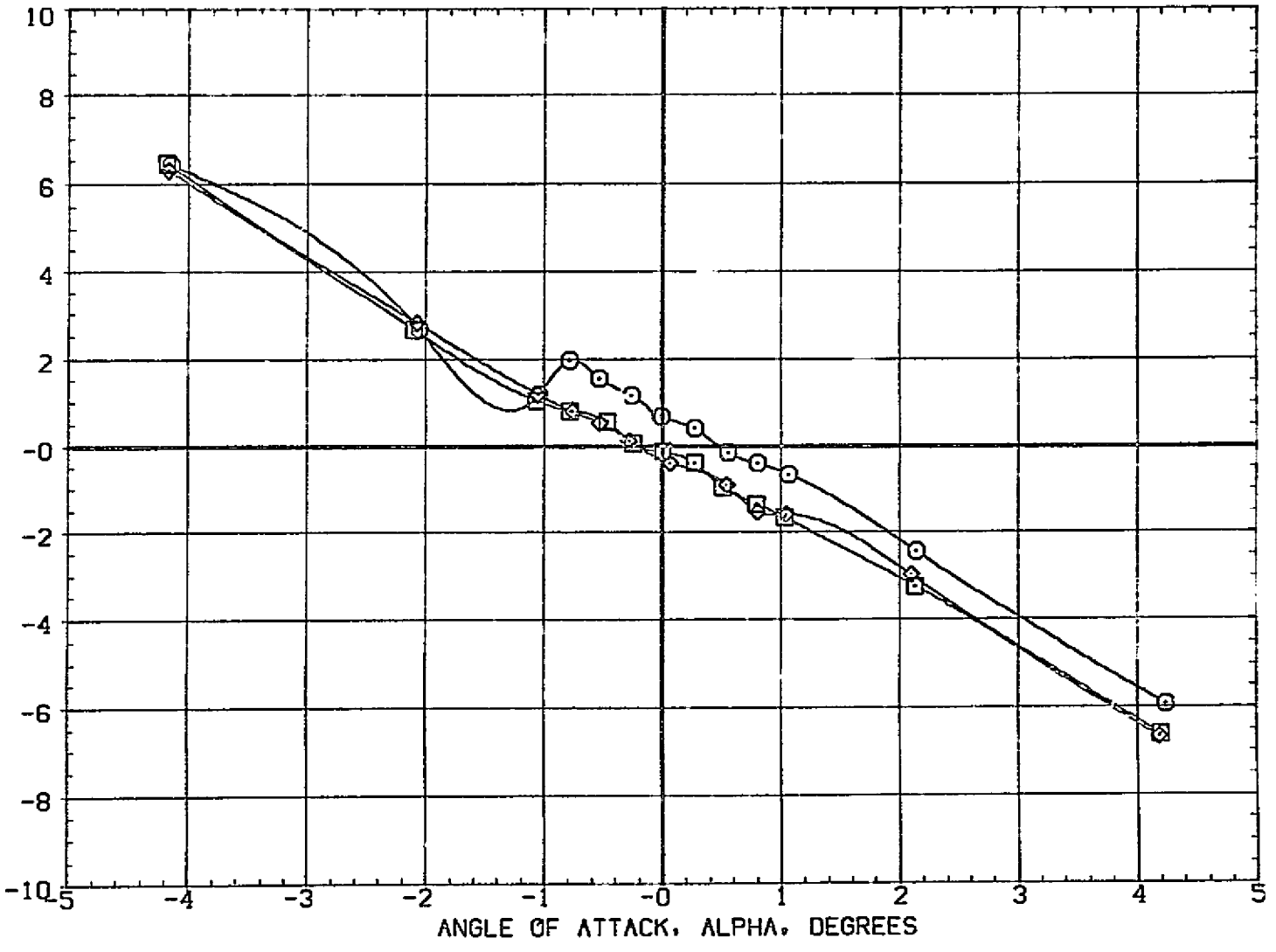


PITCH MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1009)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1010)	□	OCAT ARC 603/604 B2 F4 C	.000	60.000	60.000	86.000
(BX1011)	◇	OCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000

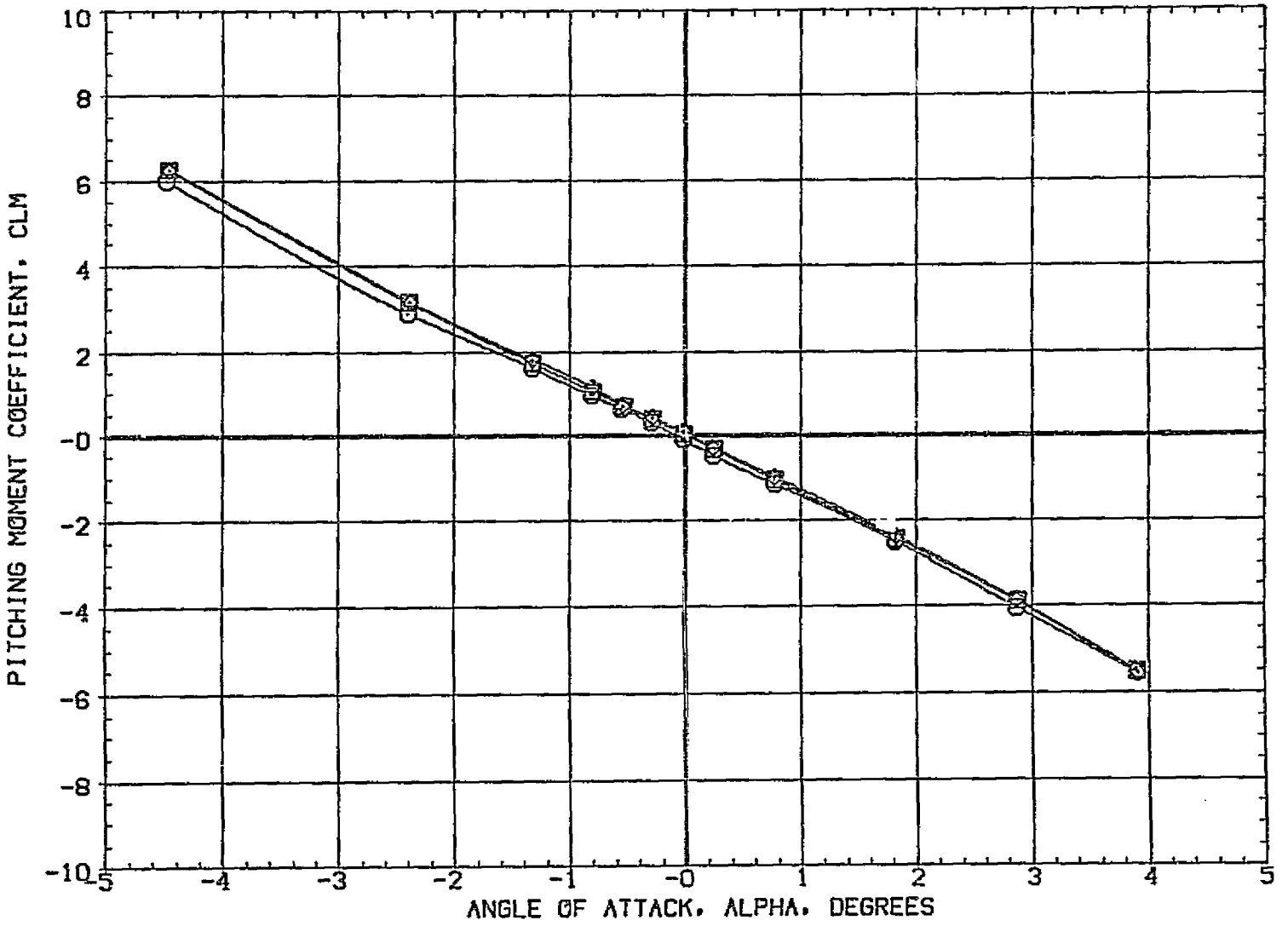
REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3730	FT.
BREF	.3730	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1009)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1010)	□	DCAT ARC 603/604 B2 F4 C	.000	60.000	60.000	86.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

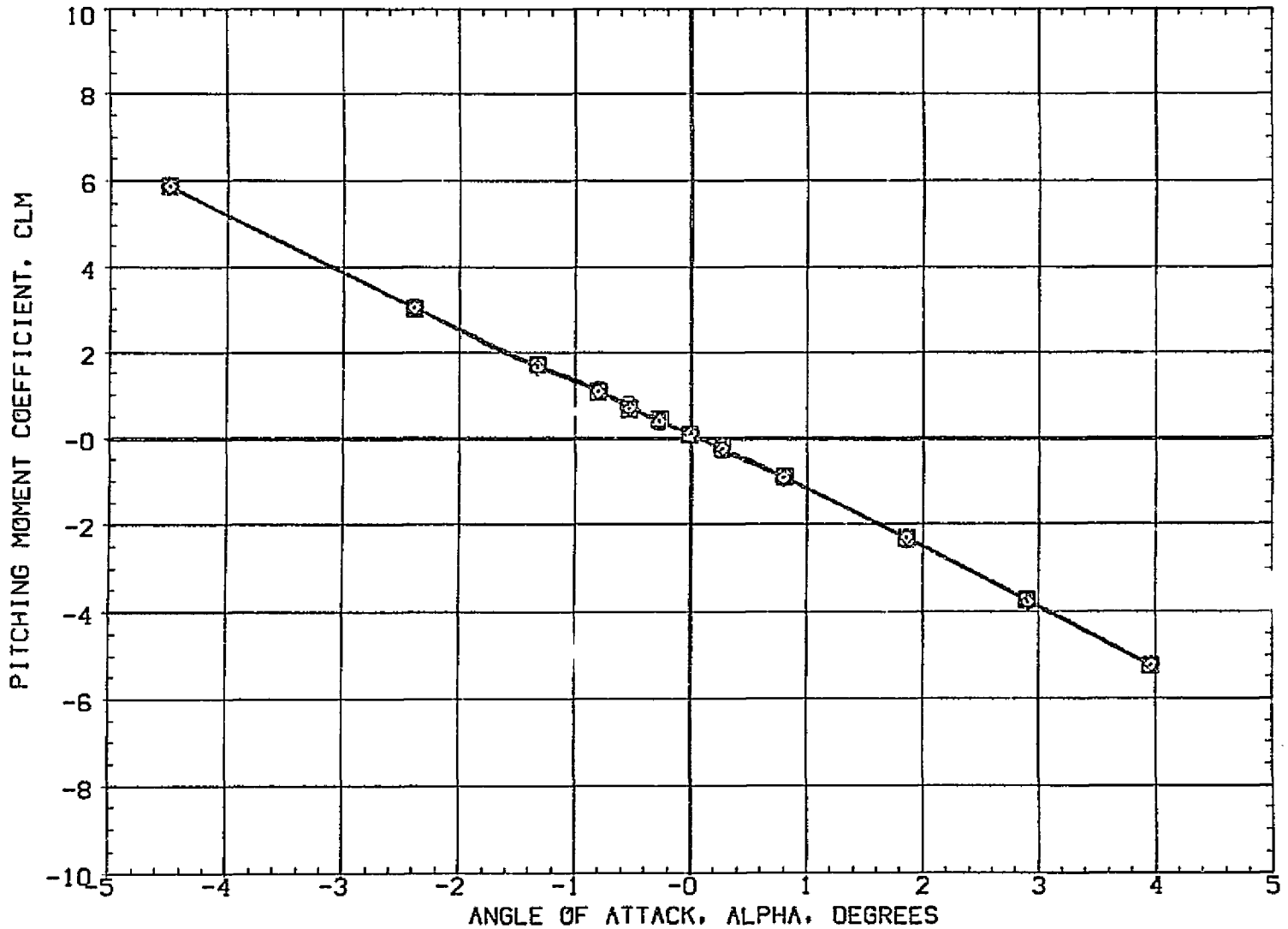


PITCH MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1009)		DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1010)		DCAT ARC 603/604 B2 F4 C	.000	60.000	60.000	86.000
(BX1011)		DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

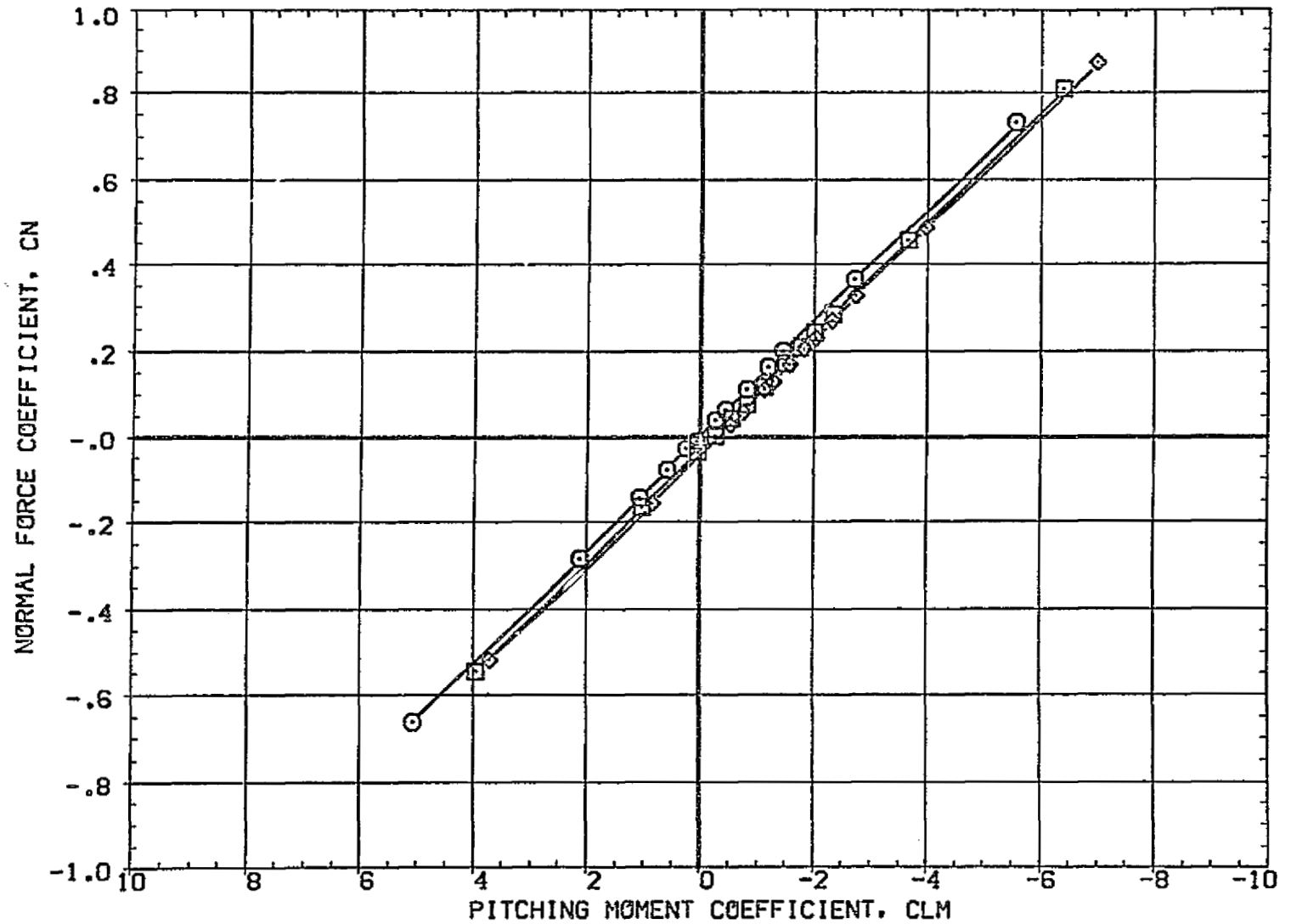


PITCH MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1009)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1010)	□	DCAT ARC 603/604 B2 F4 C	.000	60.000	60.000	86.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



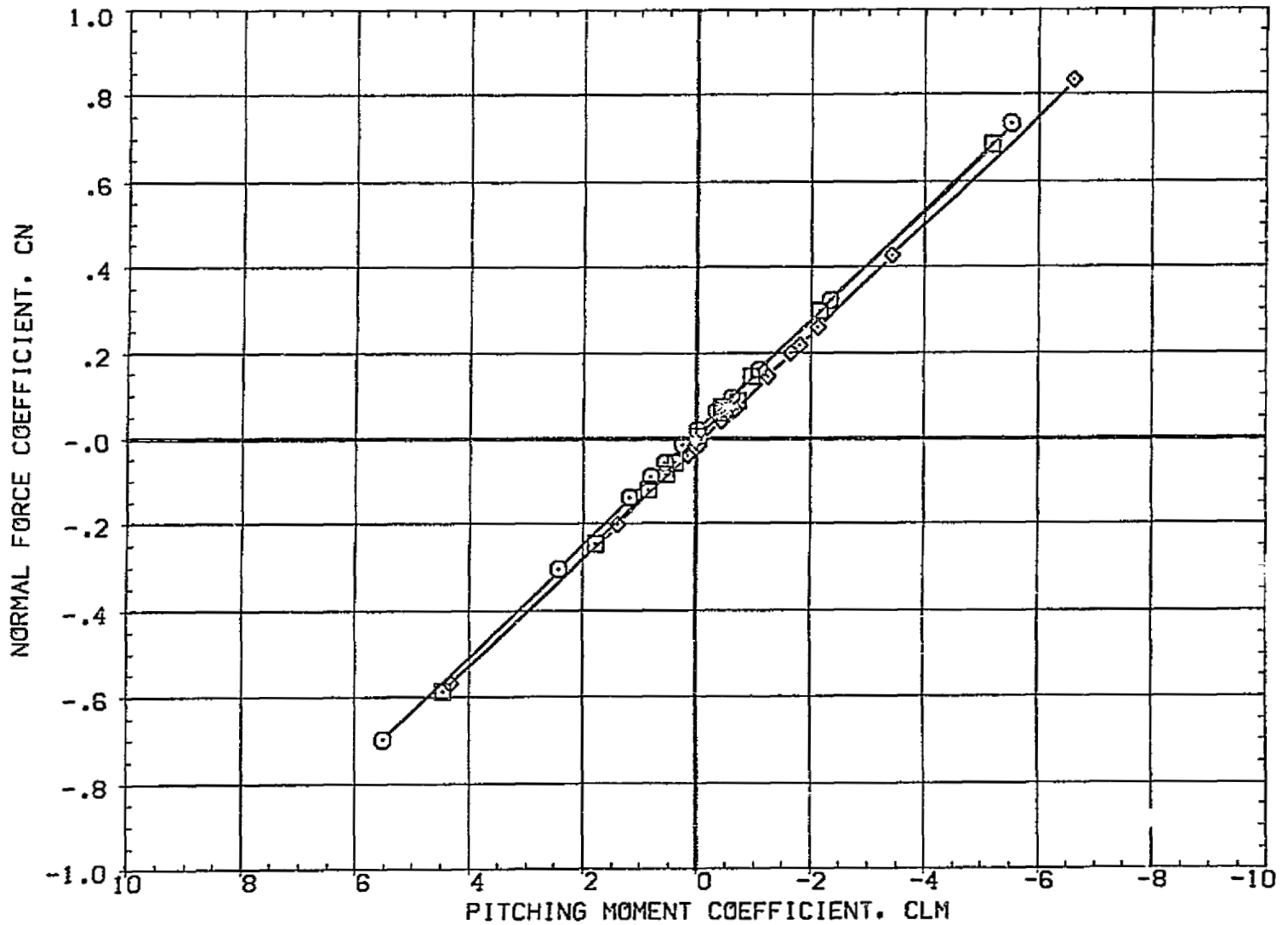
PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(BX1009)	DCAT ARC 603/604 92 F4 C
(BX1010)	DCAT ARC 603/604 82 F4 C
(BX1011)	DCAT ARC 603/604 82 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	60.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

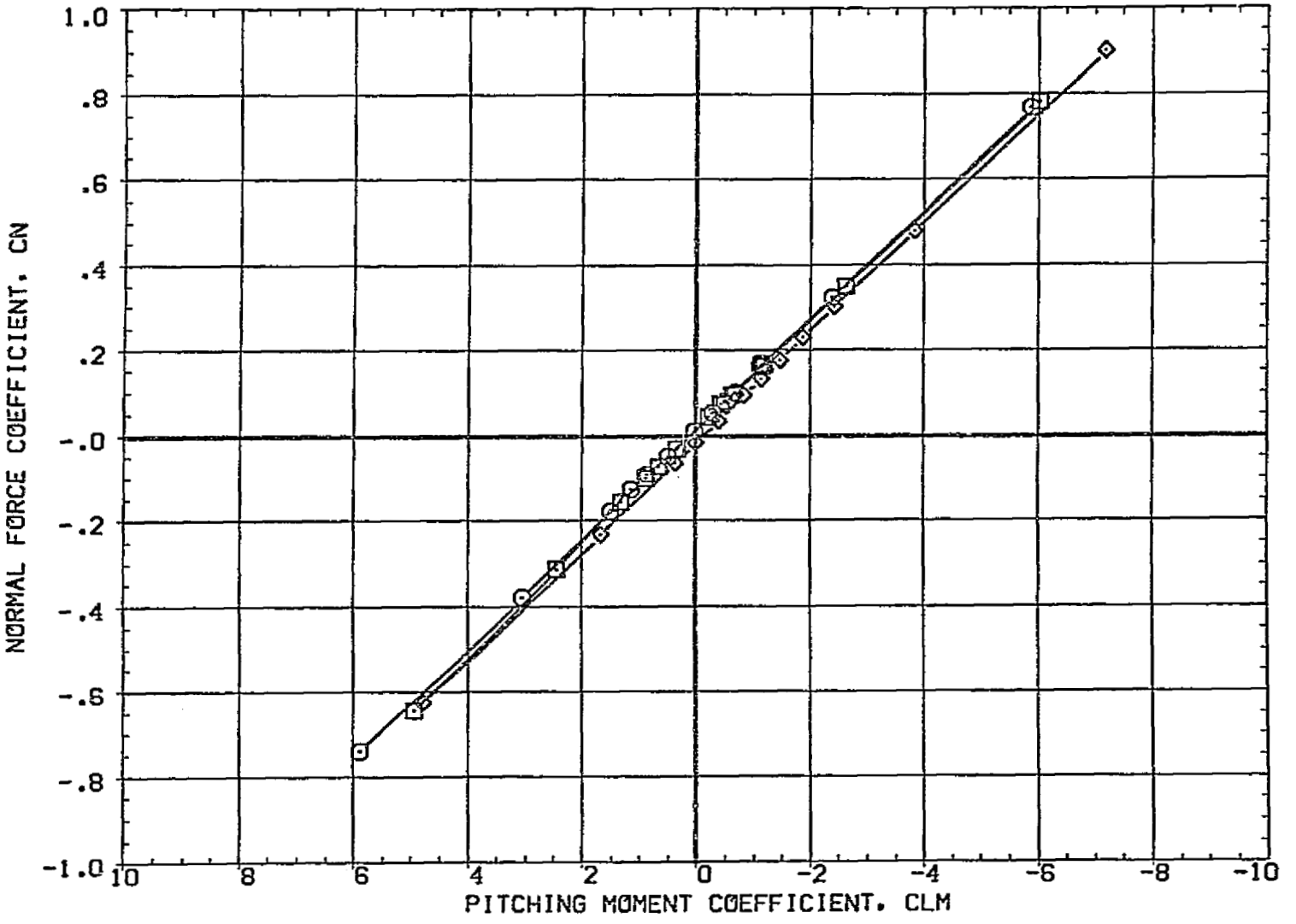


PITCH MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1009)	○	DCAT ARC 603/604 B2 F4 C
(BX1010)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	60.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

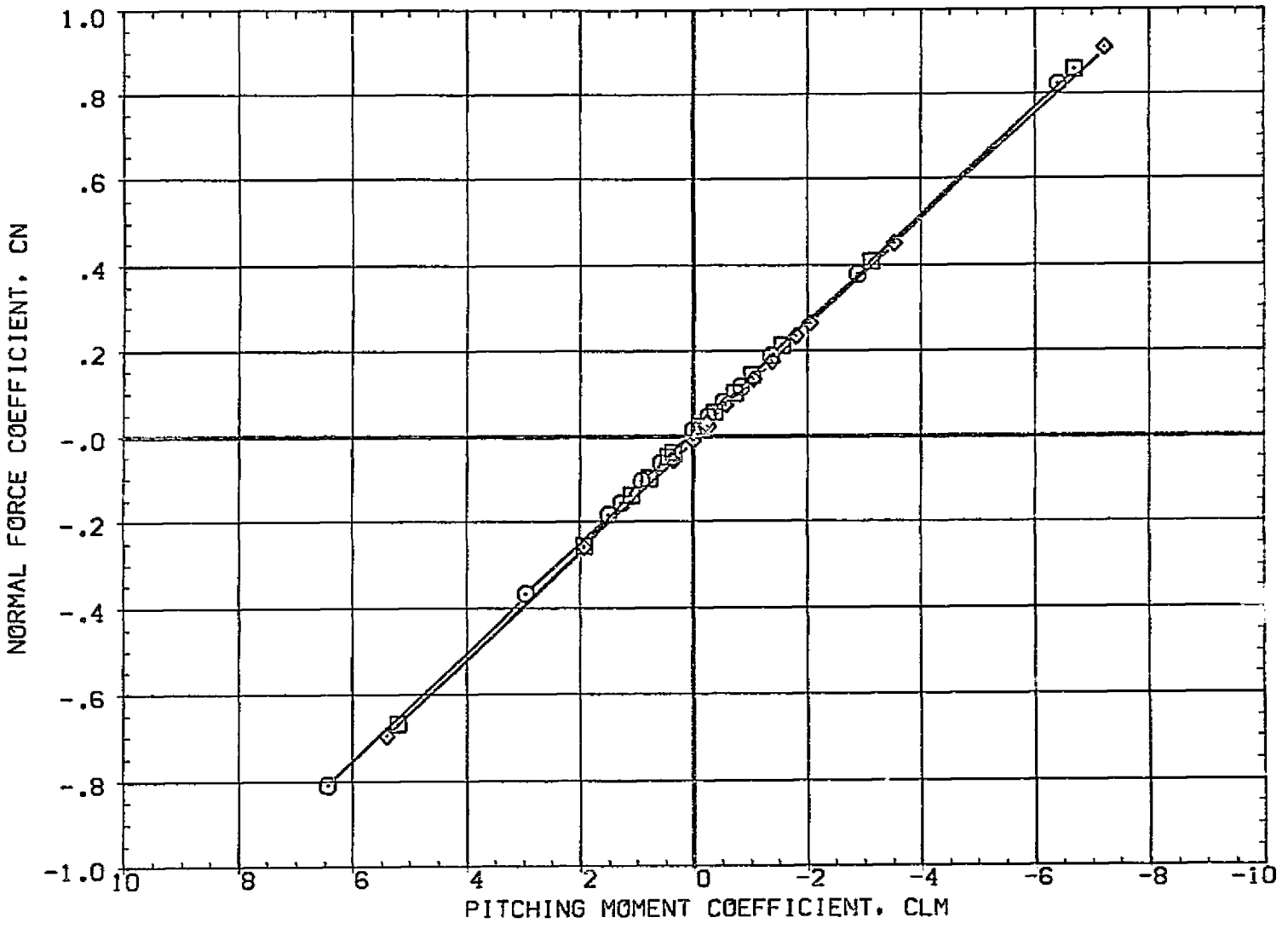


PITCH MODULATION EFFECT

(C)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1009)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1010)	□	OCAT ARC 603/604 B2 F4 C	.000	60.000	60.000	86.000
(BX1011)	◇	OCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



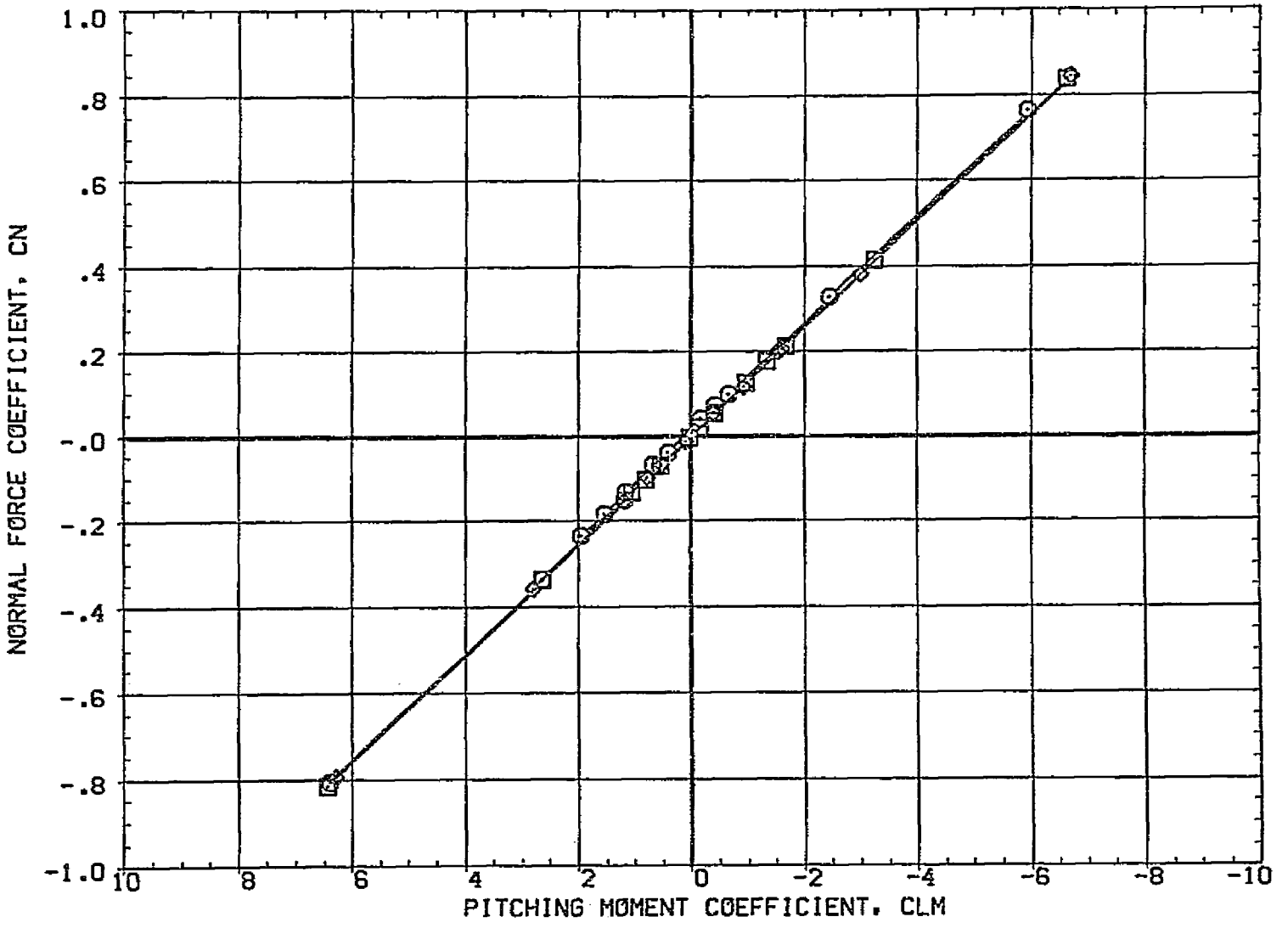
PITCH MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1009)	○	OCAT ARC 603/604 B2 F4 C
(BX1010)	□	OCAT ARC 603/604 B2 F4 C
(BX1011)	◇	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	80.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3731	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



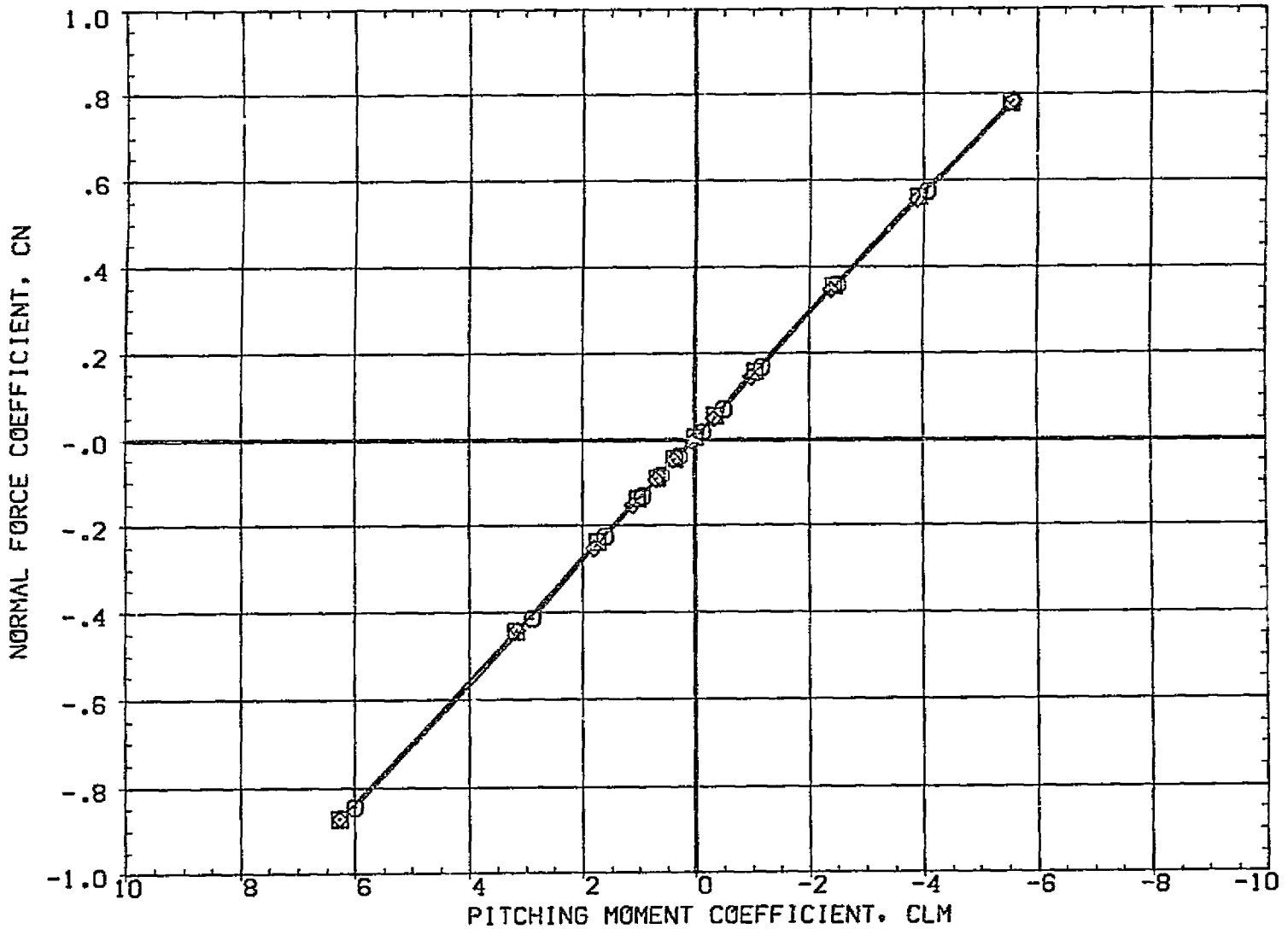
PITCH MODULATION EFFECT

(E)MACH = 1.09

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BX1009)	○	DCAT ARC 603/604 B2 F4 C
(BX1010)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	60.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



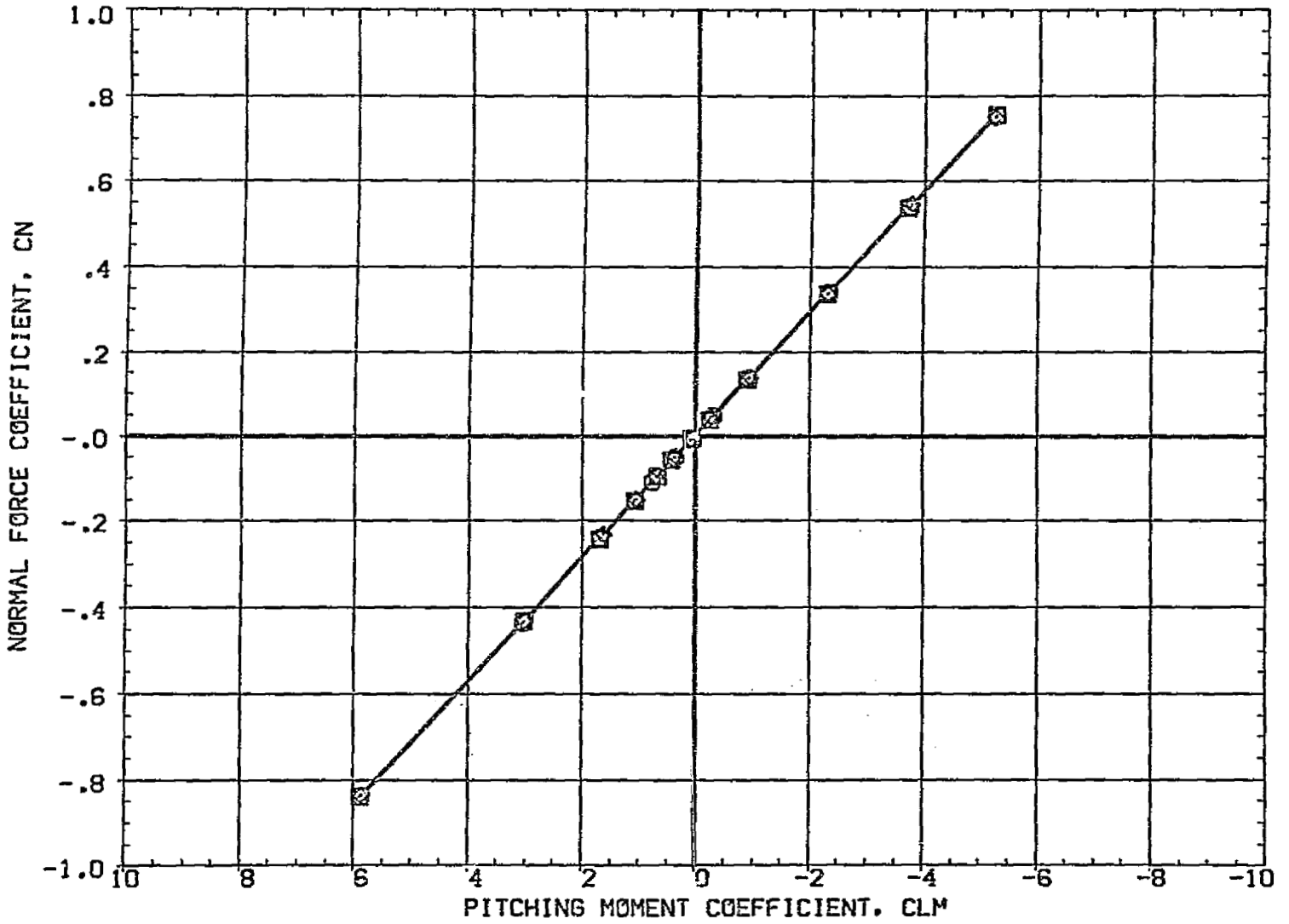
PITCH MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1009)	□	DCAT ARC 603/604 B2 F4 C
(BX1010)	◇	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	60.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

(G)MACH = 1.80

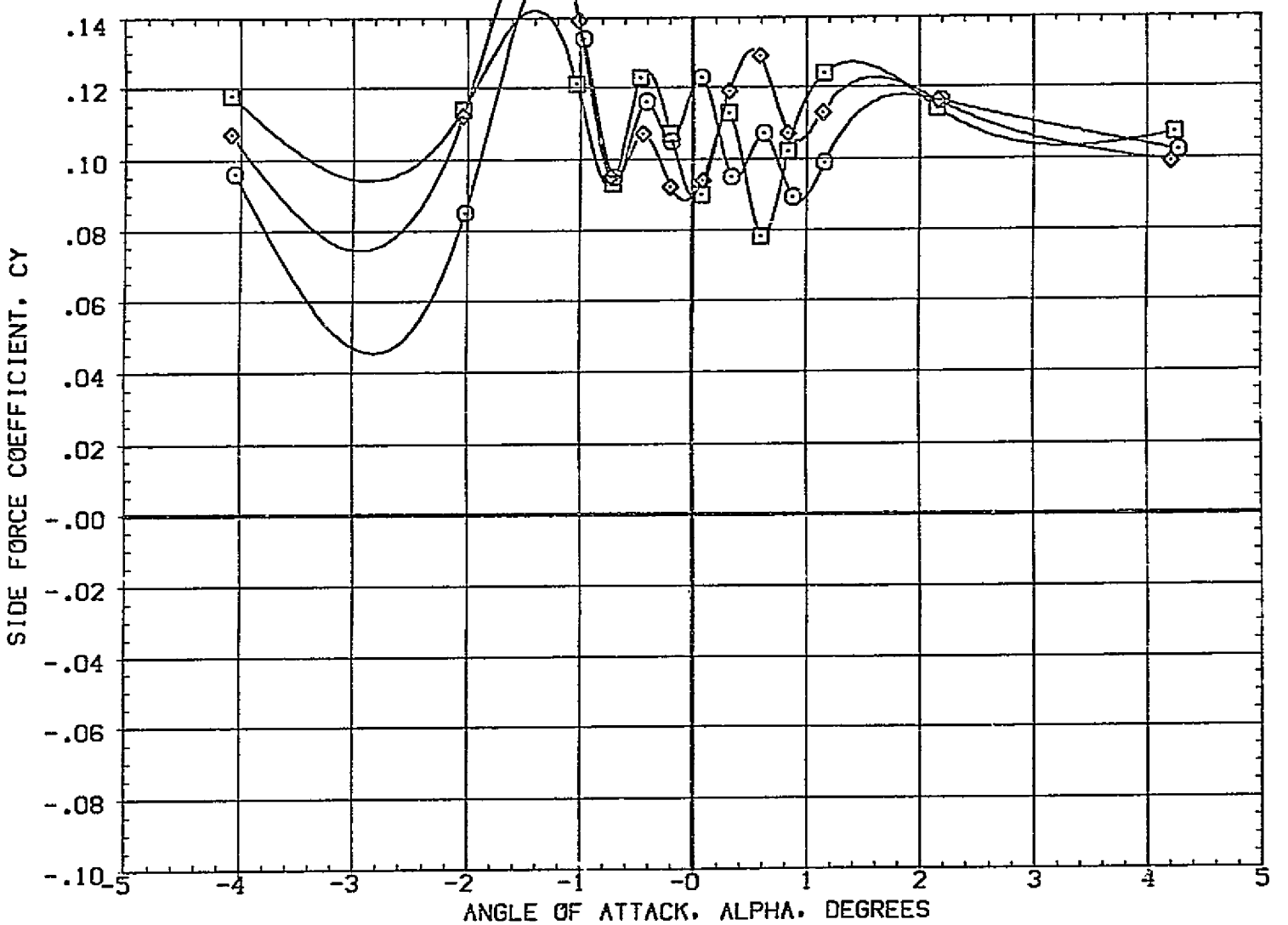
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BX1009)	▢	OCAT ARC 603/604 B2 F4 C
(BX1010)	▢	OCAT ARC 603/604 B2 F4 C
(BX1011)	◇	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	60.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

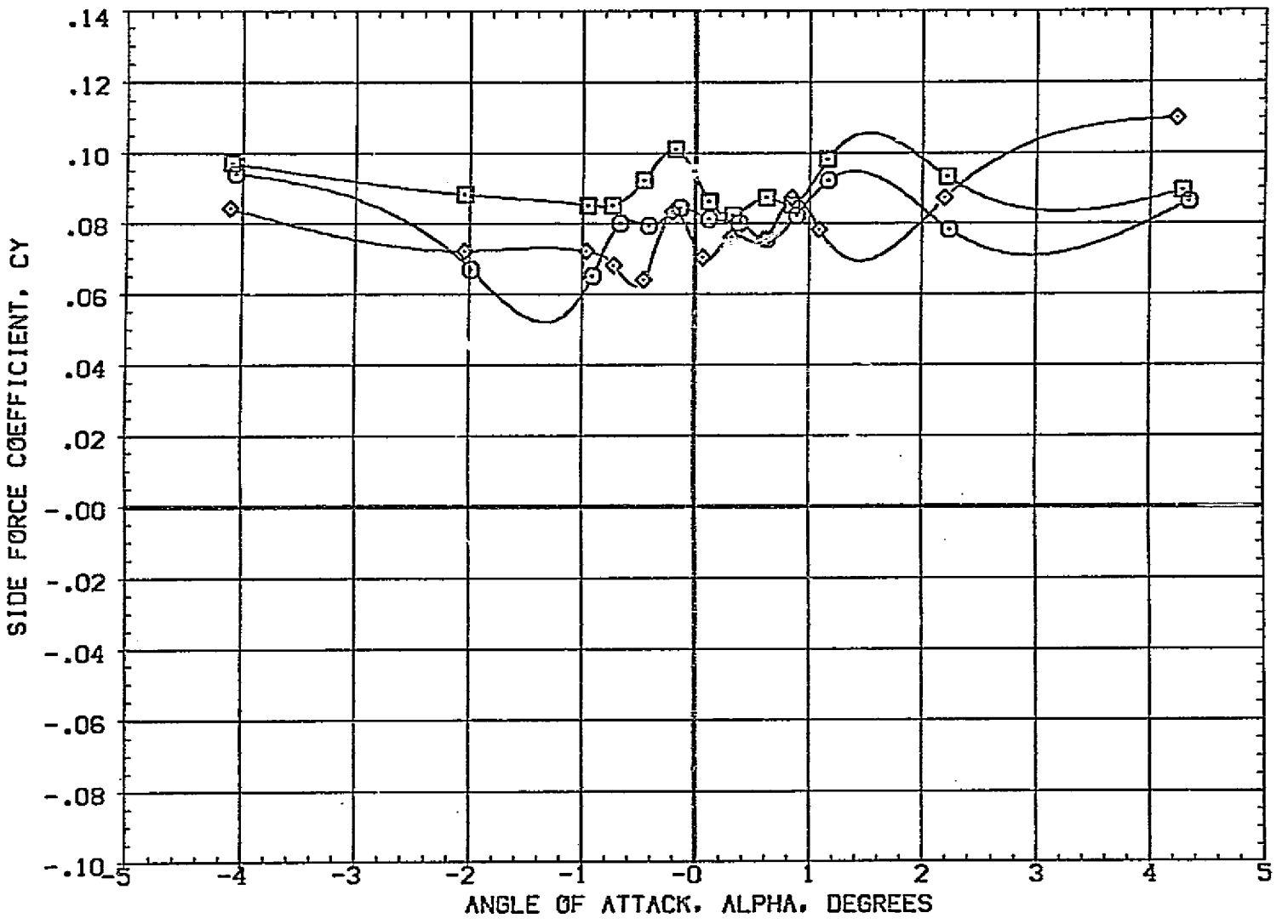


PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1009)	▢	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1010)	□	DCAT ARC 603/604 B2 F4 C	.000	60.000	60.000	86.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



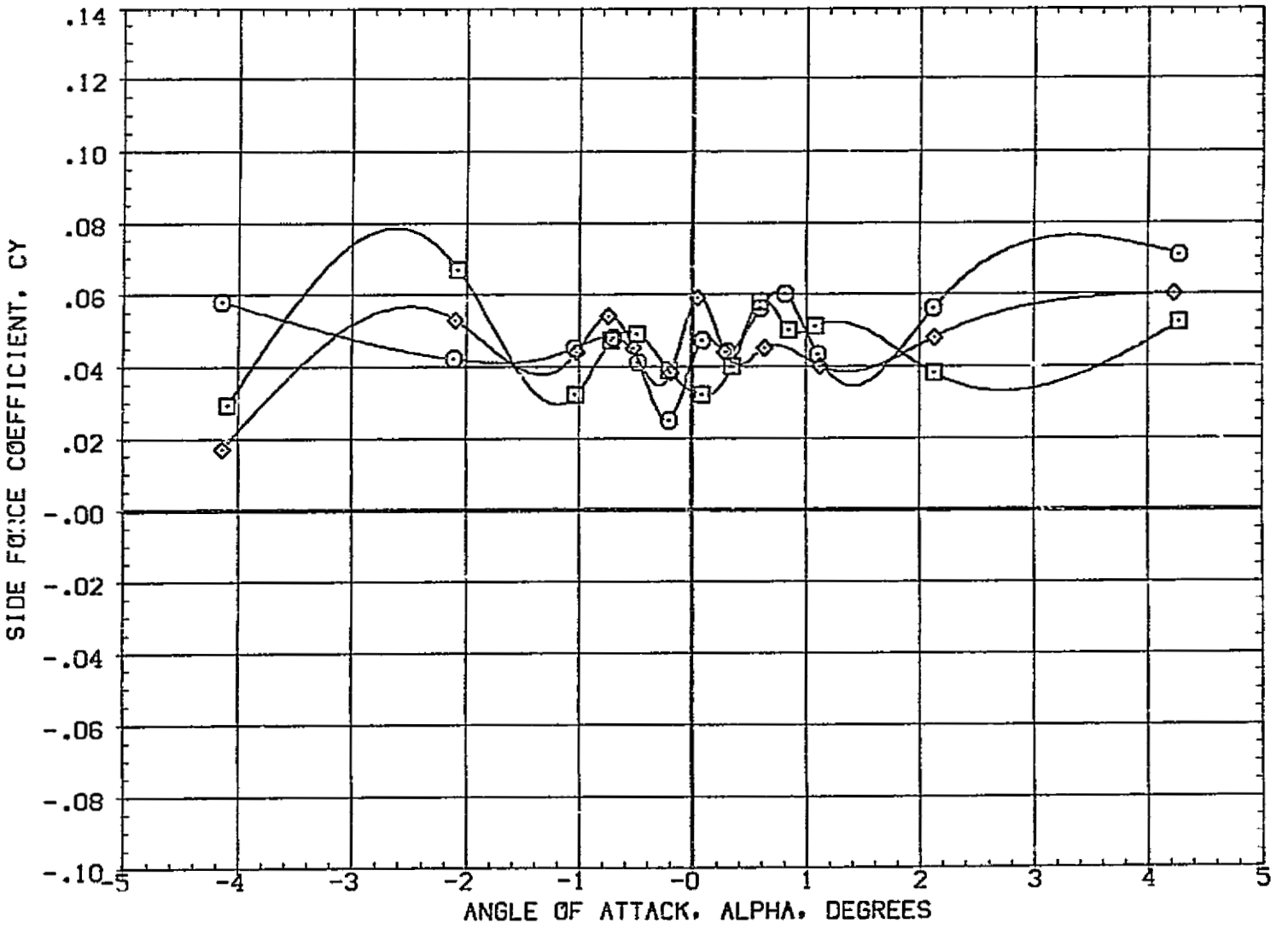
PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1009)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1010)	□	DCAT ARC 603/604 B2 F4 C	.000	60.000	60.000	86.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

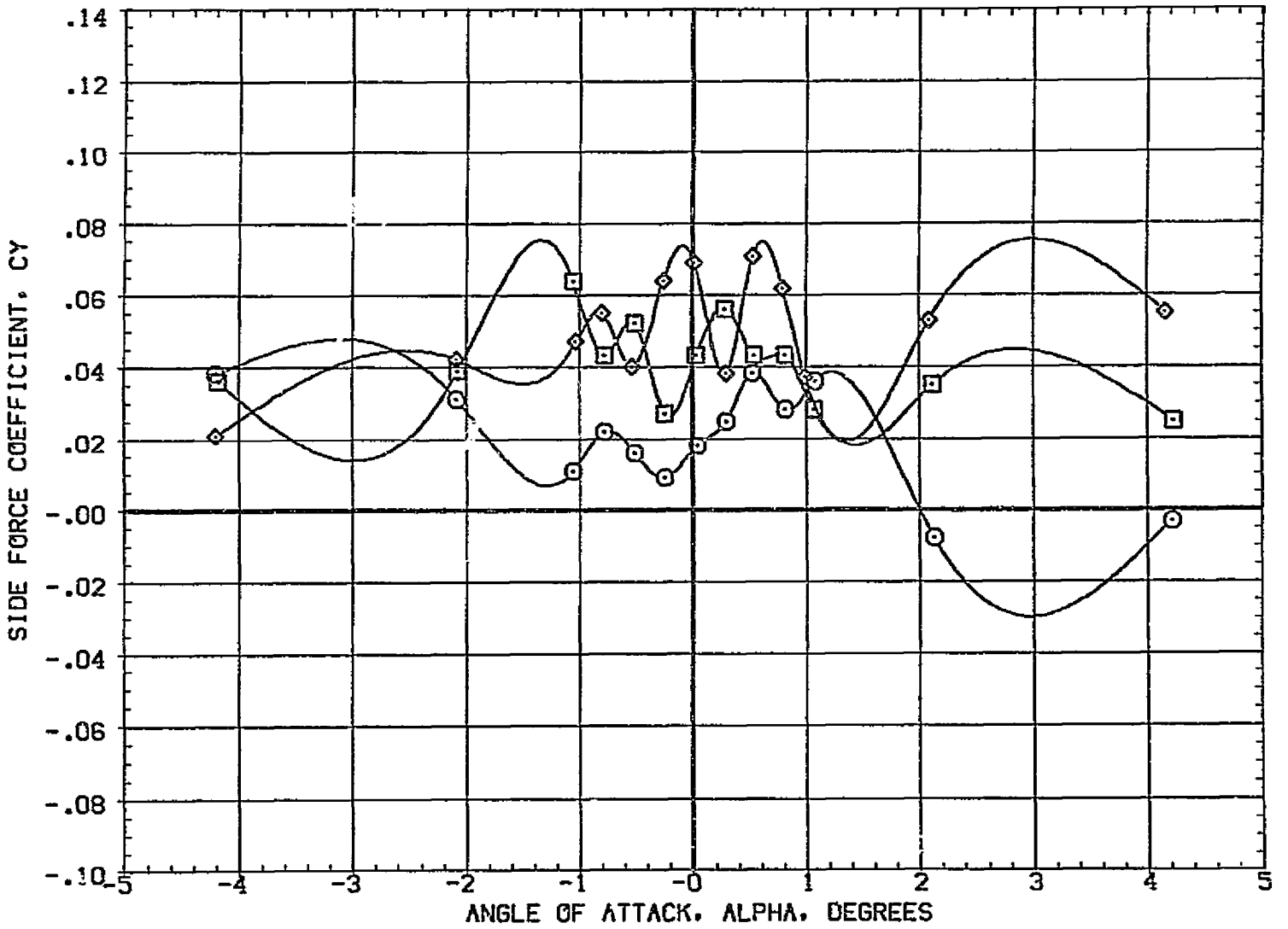


PITCH MODULATION EFFECT

(C)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1009)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1010)	◁□	DCAT ARC 603/604 B2 F4 C	.000	60.000	60.000	86.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



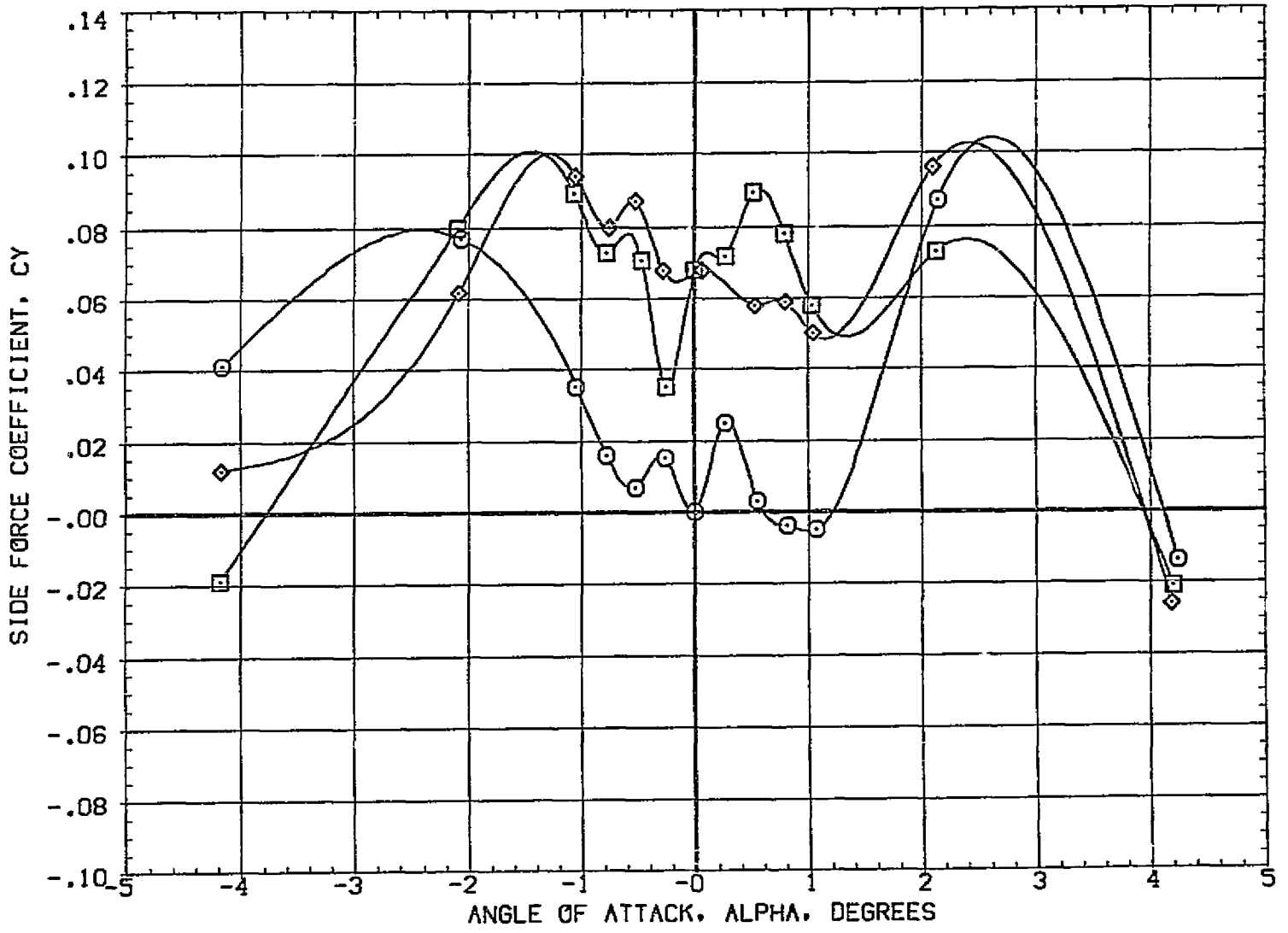
PITCH MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1009)	○	DCAT ARC 603/604 B2 F4 C
(BX1010)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF
.000	.000	60.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



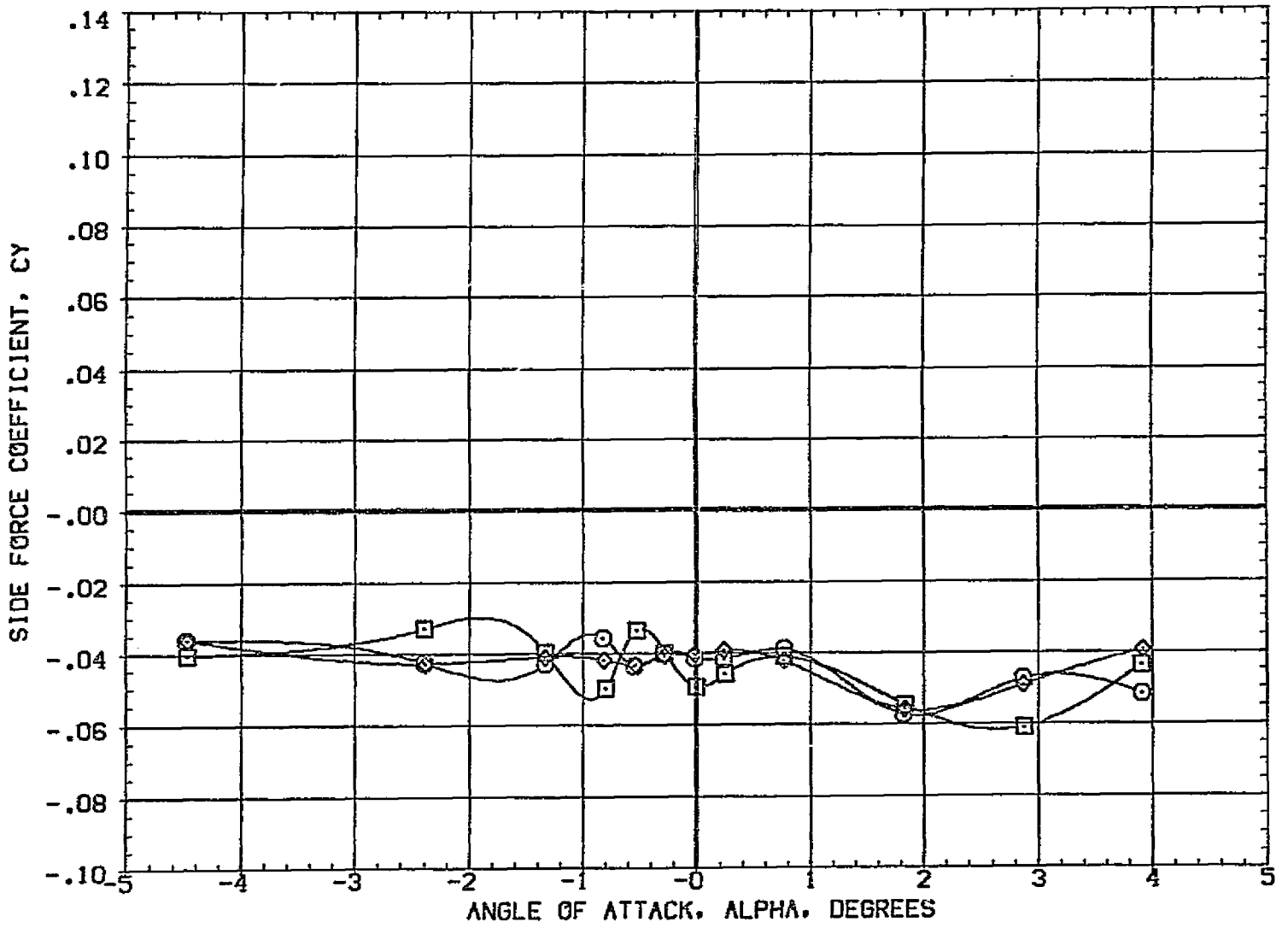
PITCH MODULATION EFFECT

(E)MACH = 1.09

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1009)	○	DCAT ARC 603/6C1 B2 F4 C	.000	.000	60.000	86.000
(BX1010)	□	DCAT ARC 603/604 B2 F4 C	.000	60.000	60.000	86.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

(F)MACH = 1.56

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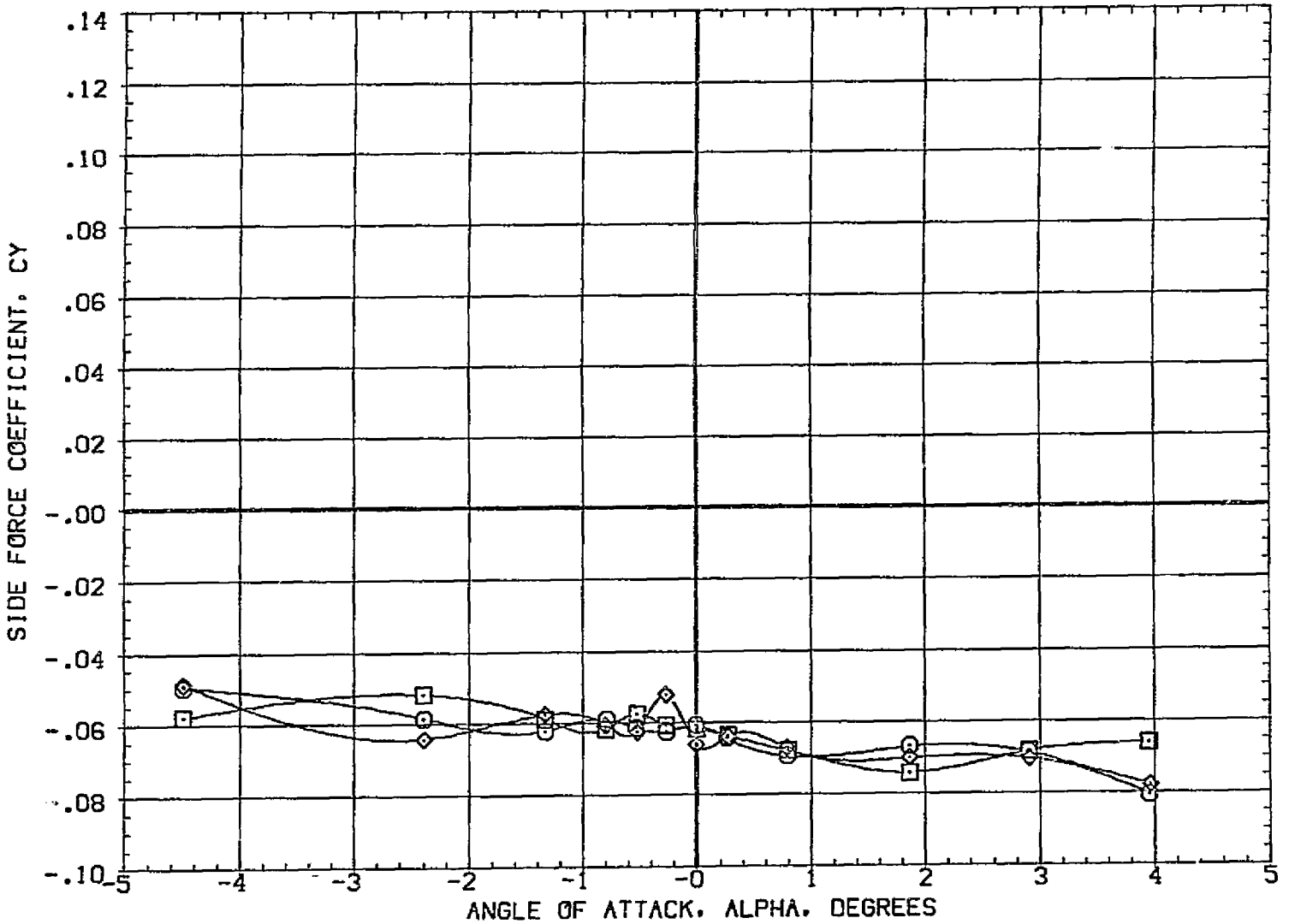
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1009)	○	DCAT ARC 603/604 B2 F4 C
(BX1010)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	60.000	86.000
.000	60.000	60.000	86.000
.000	100.000	60.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

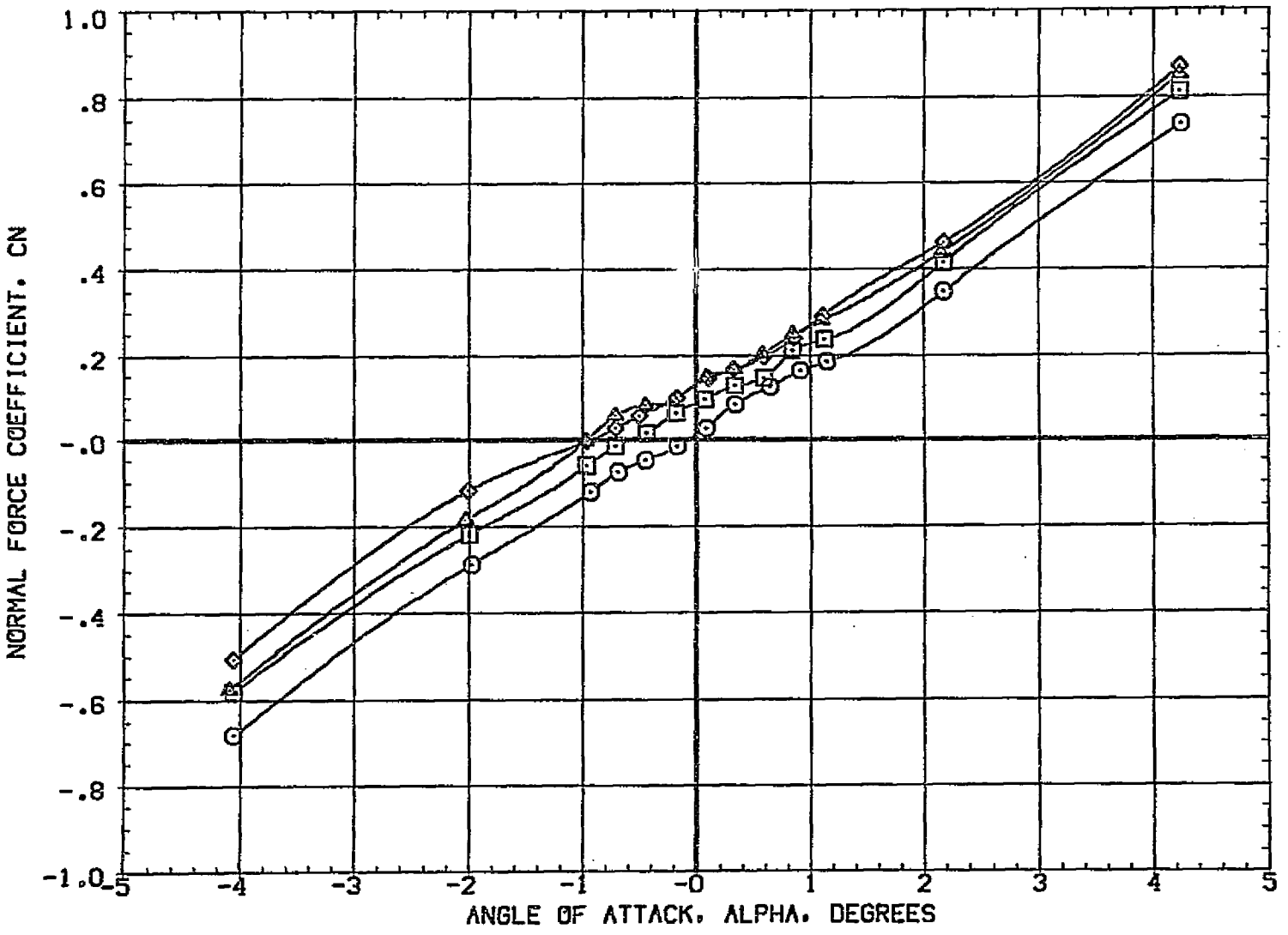


PITCH MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1012)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000
(BX1013)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	100.000	86.000
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C	.000	60.000	100.000	86.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



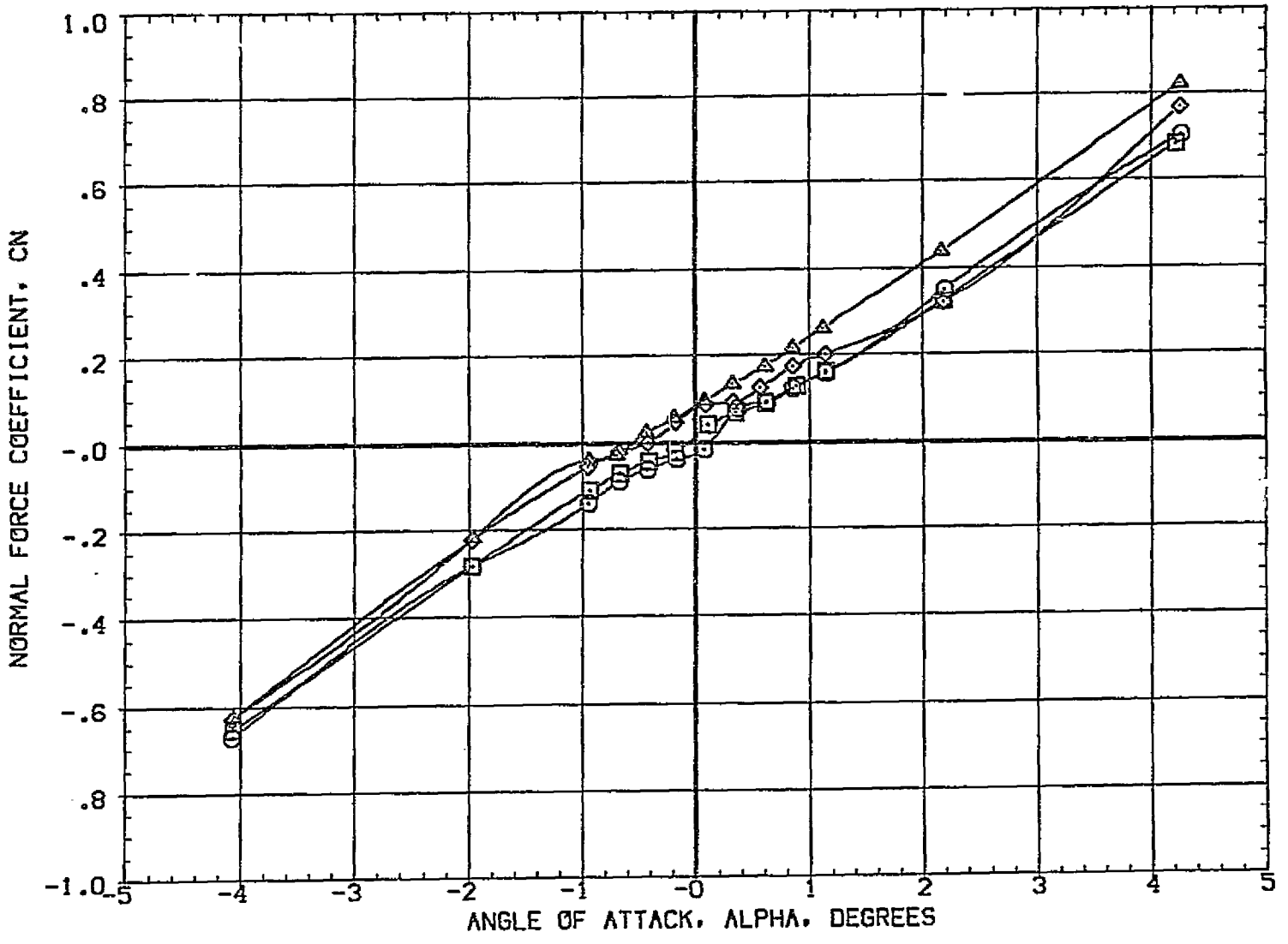
PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	○	OCAT ARC 603/604 B2 F4 C
(BX1013)	□	OCAT ARC 603/604 B2 F4 C
(BX1014)	◇	OCAT ARC 603/604 B2 F4 C
(BX1015)	△	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PGJ/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

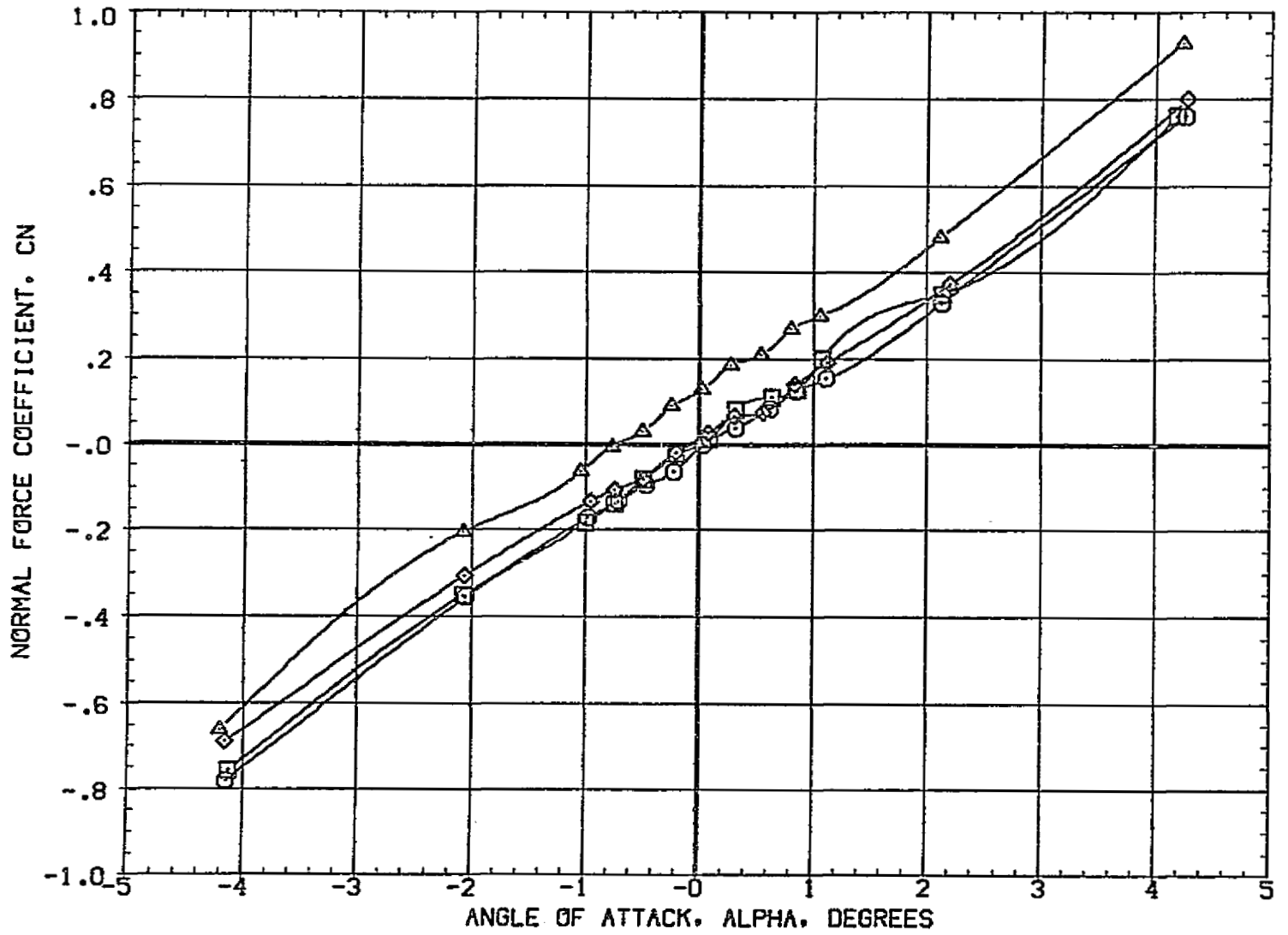


PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1012)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000
(BX1013)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	100.000	86.000
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C	.000	60.000	100.000	86.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

(C)MACH = 0.95

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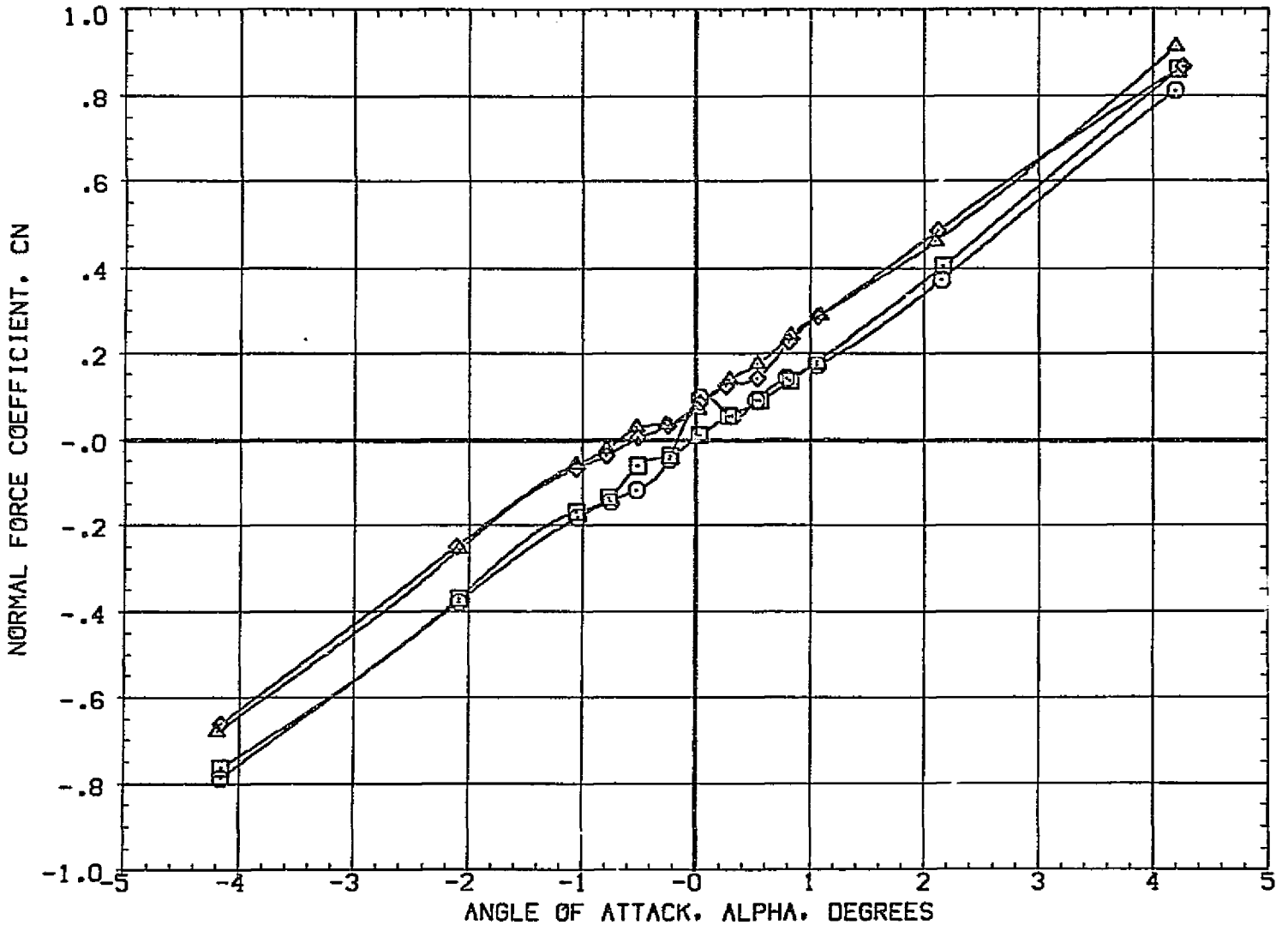
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF	REFERENCE INFORMATION		
(BX1012)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000	SREF	.1100	SQ.FT.
(BX1013)	□	OCAT ARC 603/604 B2 F4 C	.000	40.000	100.000	86.000	LREF	.3750	FT.
(BX1014)	◇	OCAT ARC 603/604 B2 F4 C	.000	60.000	100.000	86.000	BREF	.3750	FT.
(BX1015)	△	OCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000	XMRP	.0000	FT.
							YMRP	.0000	FT.
							ZMRP	.0000	FT.
							SCALE	125.0000	PERCNT



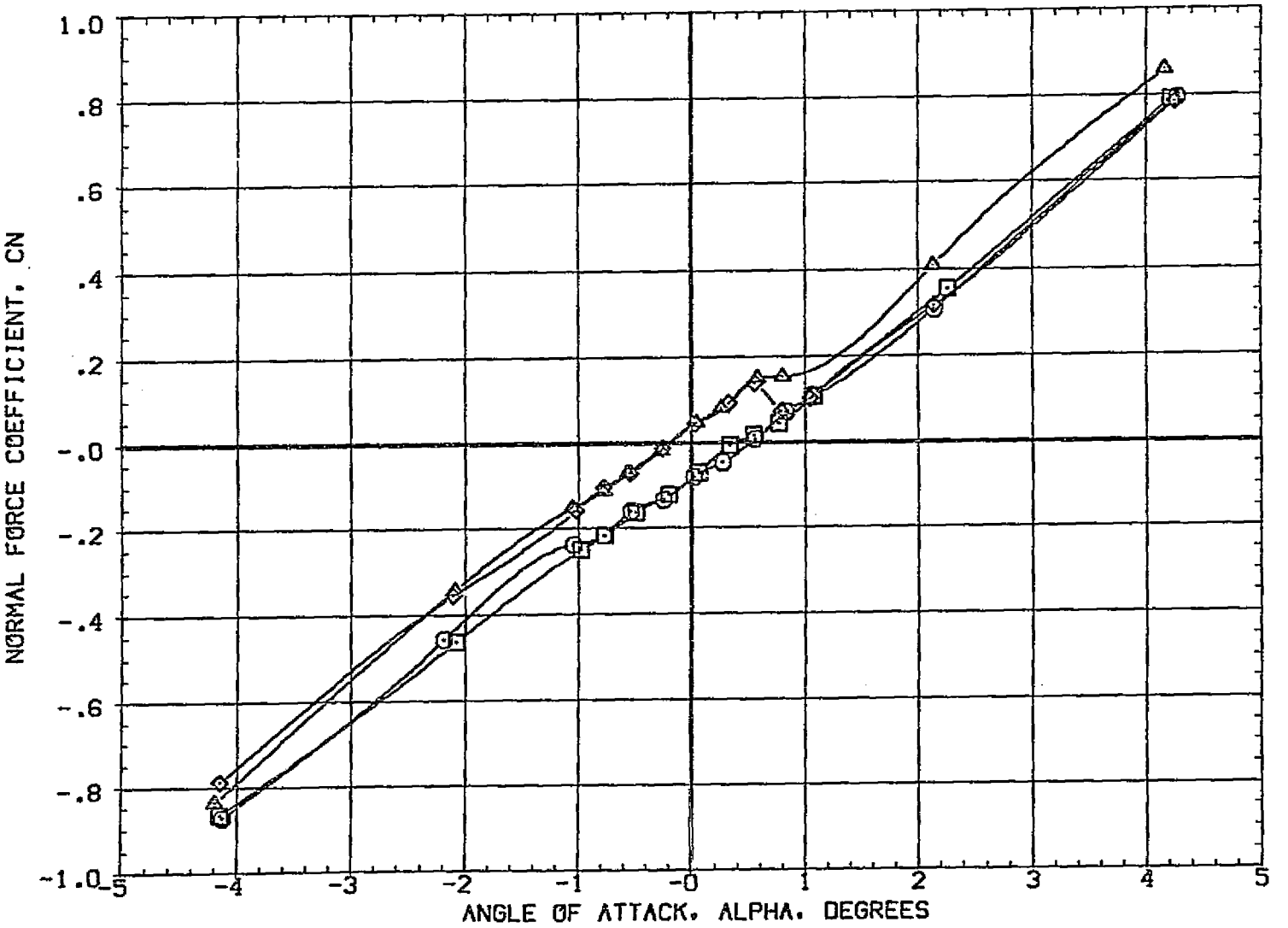
PITCH MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	○	DCAT ARC 603/604 B2 F4 C
(BX1013)	□	DCAT ARC 603/604 B2 F4 C
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



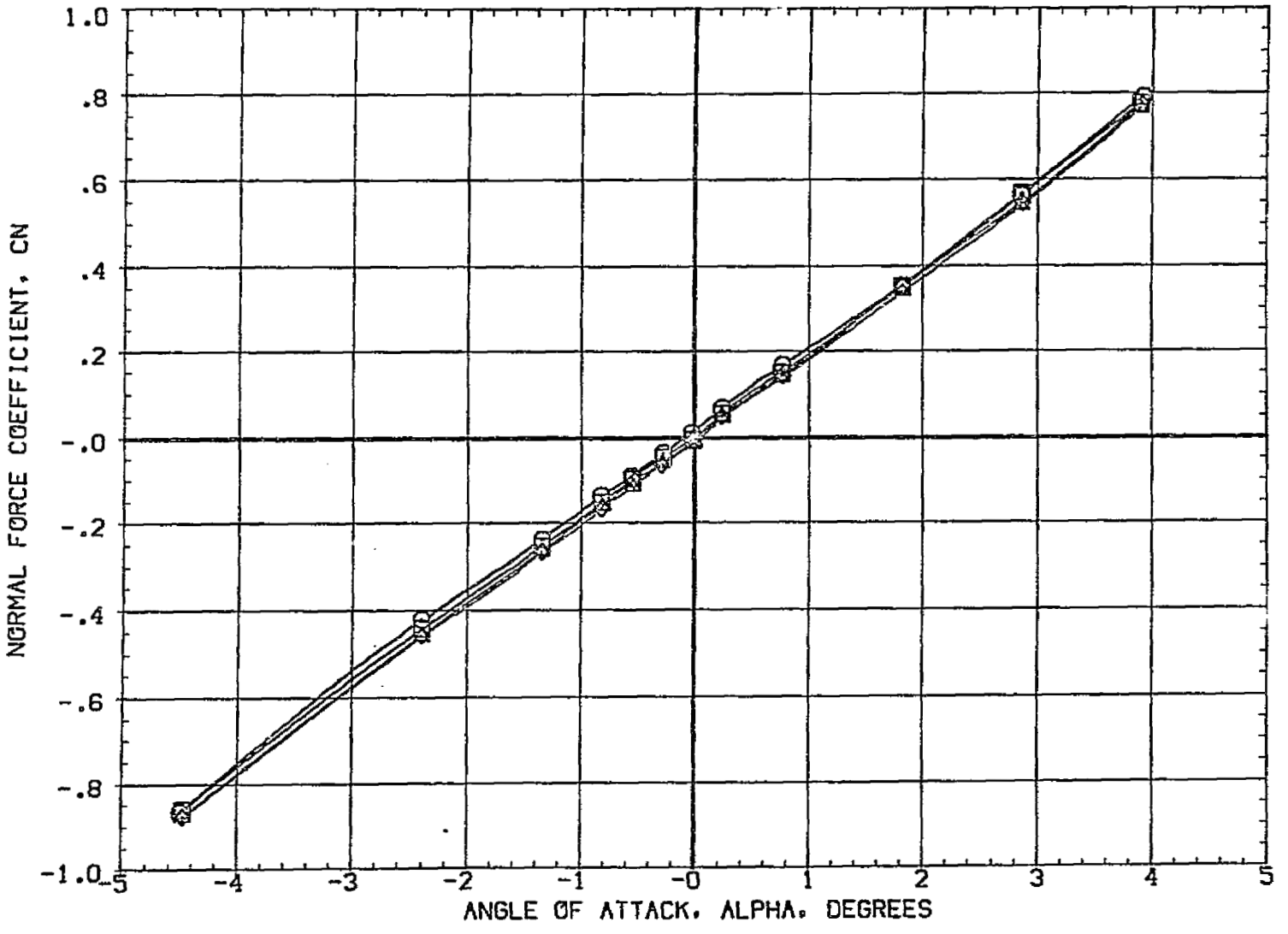
PITCH MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	○	DCAT ARC 603/604 32 F4 C
(BX1013)	□	DCAT ARC 603/604 42 F4 C
(BX1014)	◇	DCAT ARC 603/604 82 F4 C
(BX1015)	△	DCAT ARC 603/604 82 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



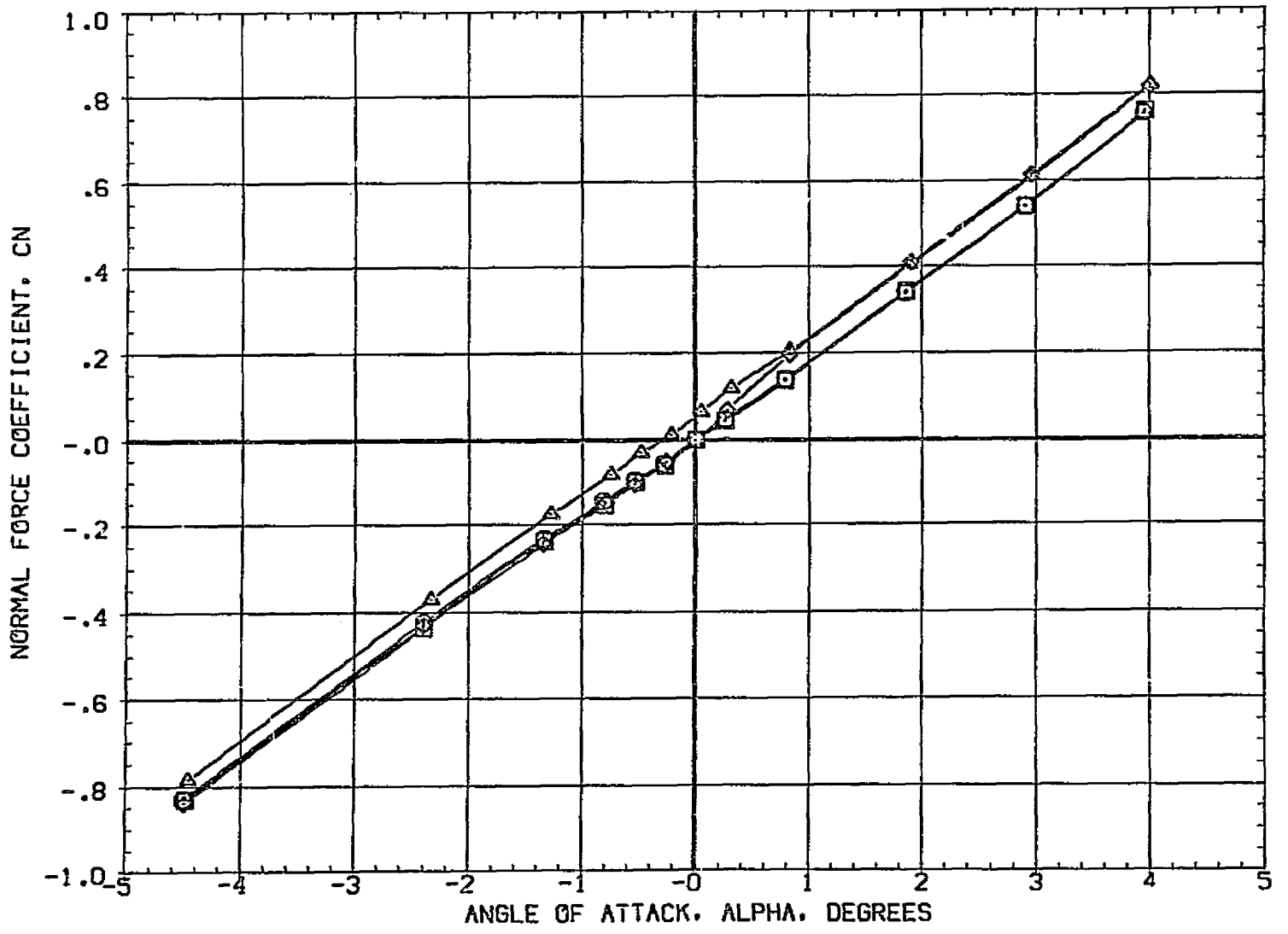
PITCH MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1012)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000
(BX1013)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	100.000	86.000
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C	.000	60.000	100.000	86.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

(G)MACH = 1.80

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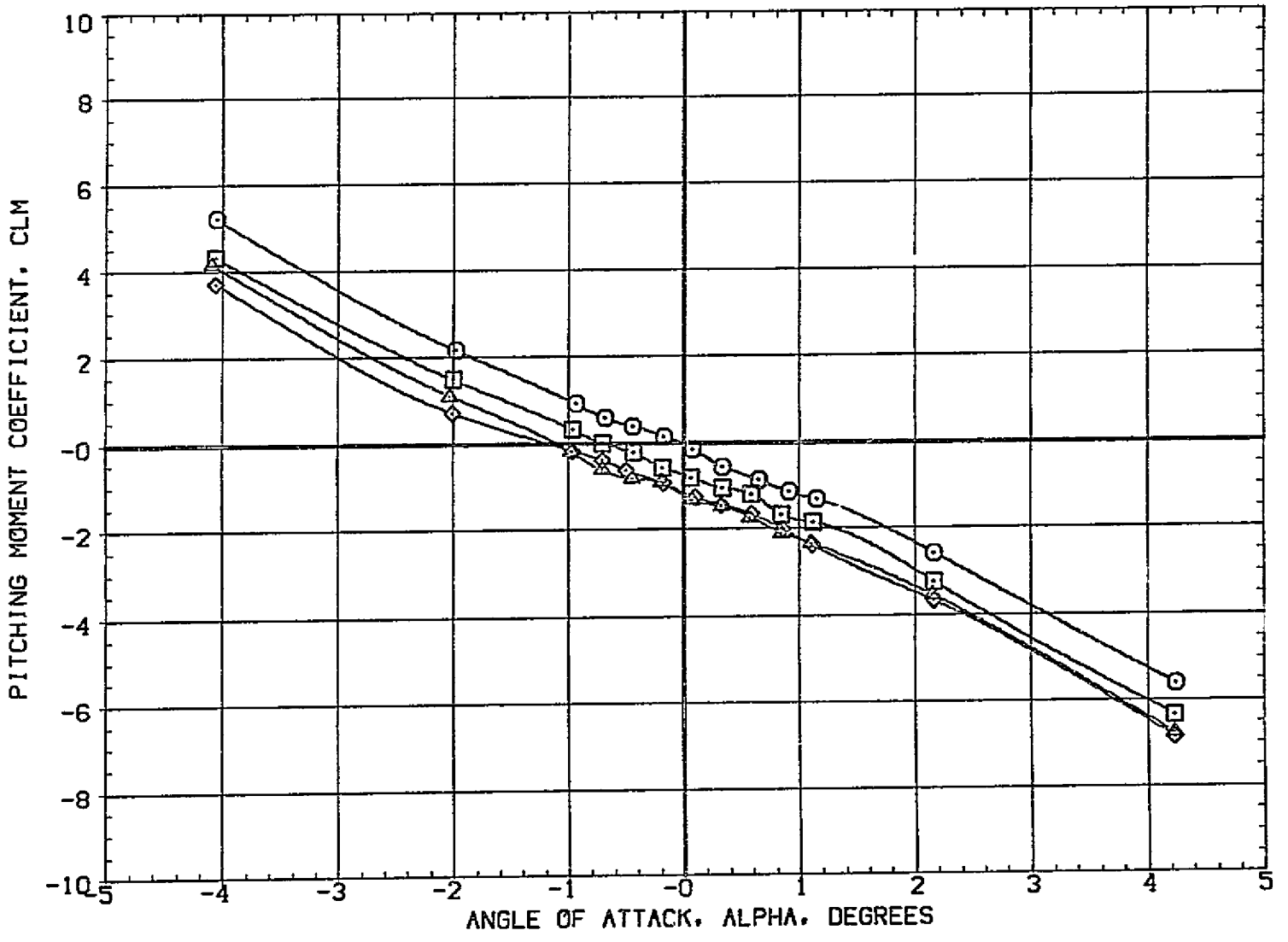
130<

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	○	DCAT ARC 603/604 B2 F4 C
(BX1013)	□	DCAT ARC 603/604 B2 F4 C
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF
.000	000	100.000	86.000
.000	40.000	100.000	86.000
.000	80.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

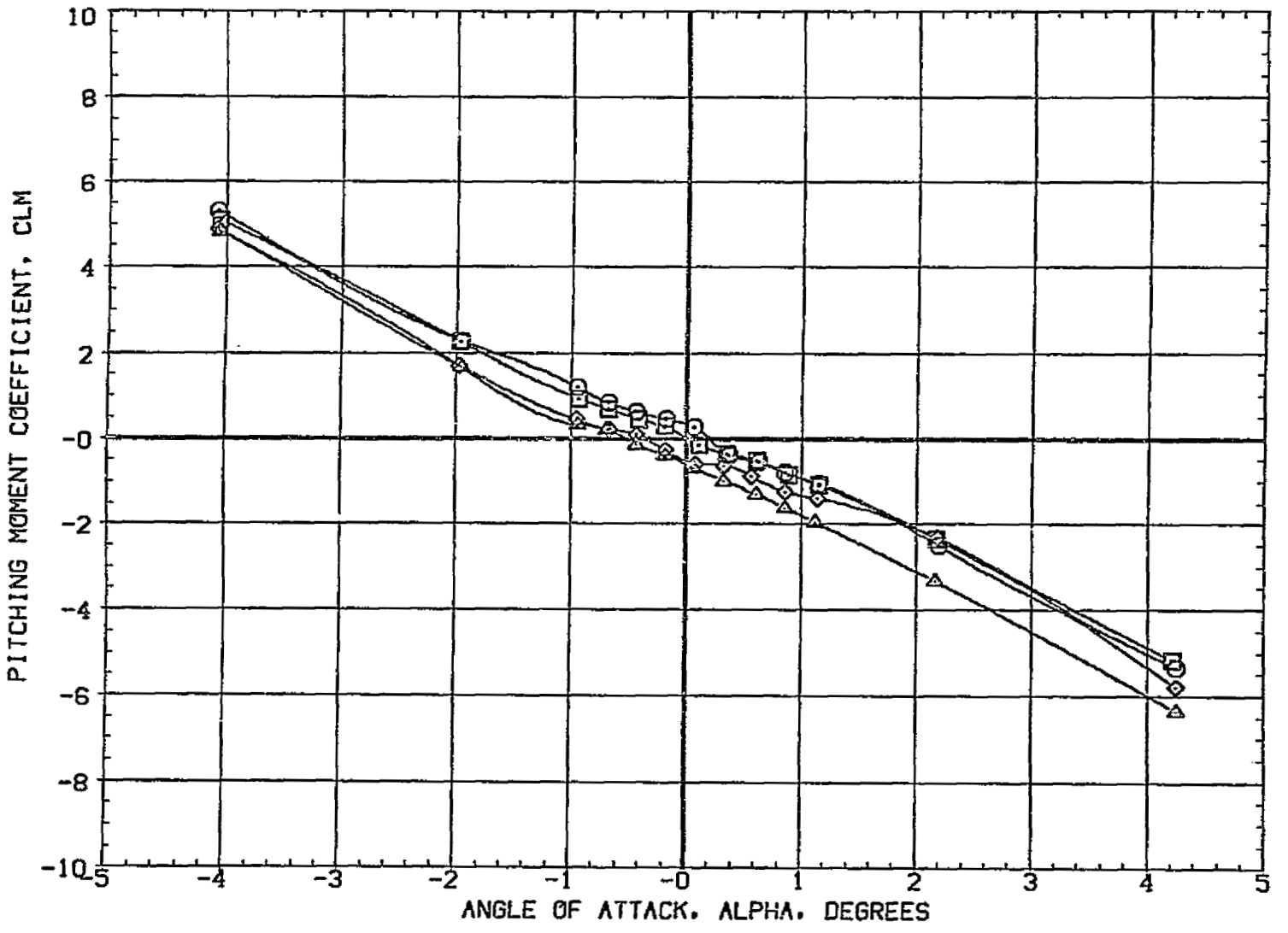


PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1012)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000
(BX1013)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	100.000	86.000
(BX1014)	⊠	DCAT ARC 603/604 B2 F4 C	.000	60.000	100.000	86.000
(BX1015)	⧖	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

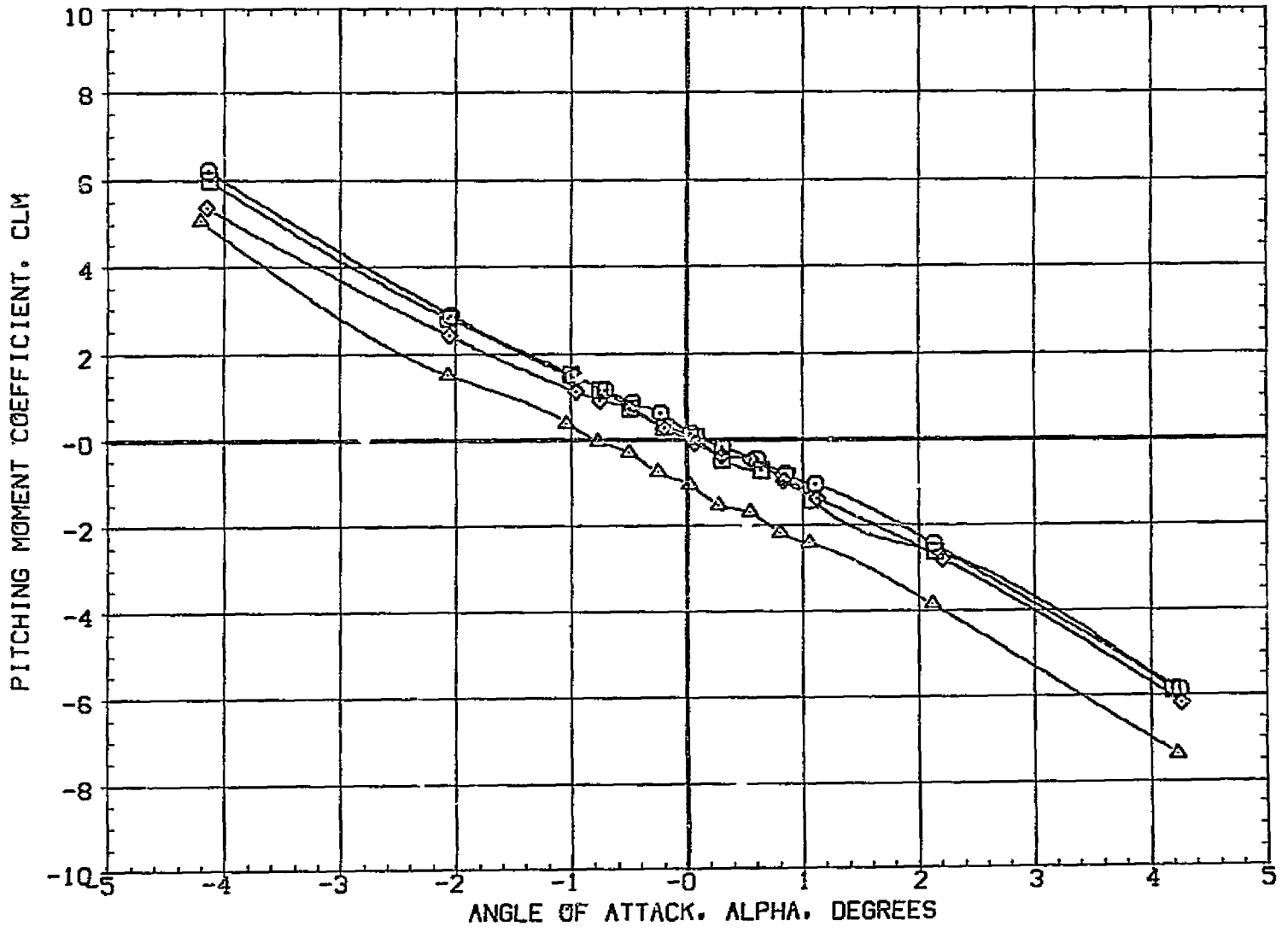


PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1012)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000
(BX1013)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	100.000	86.000
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C	.000	60.000	100.000	86.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

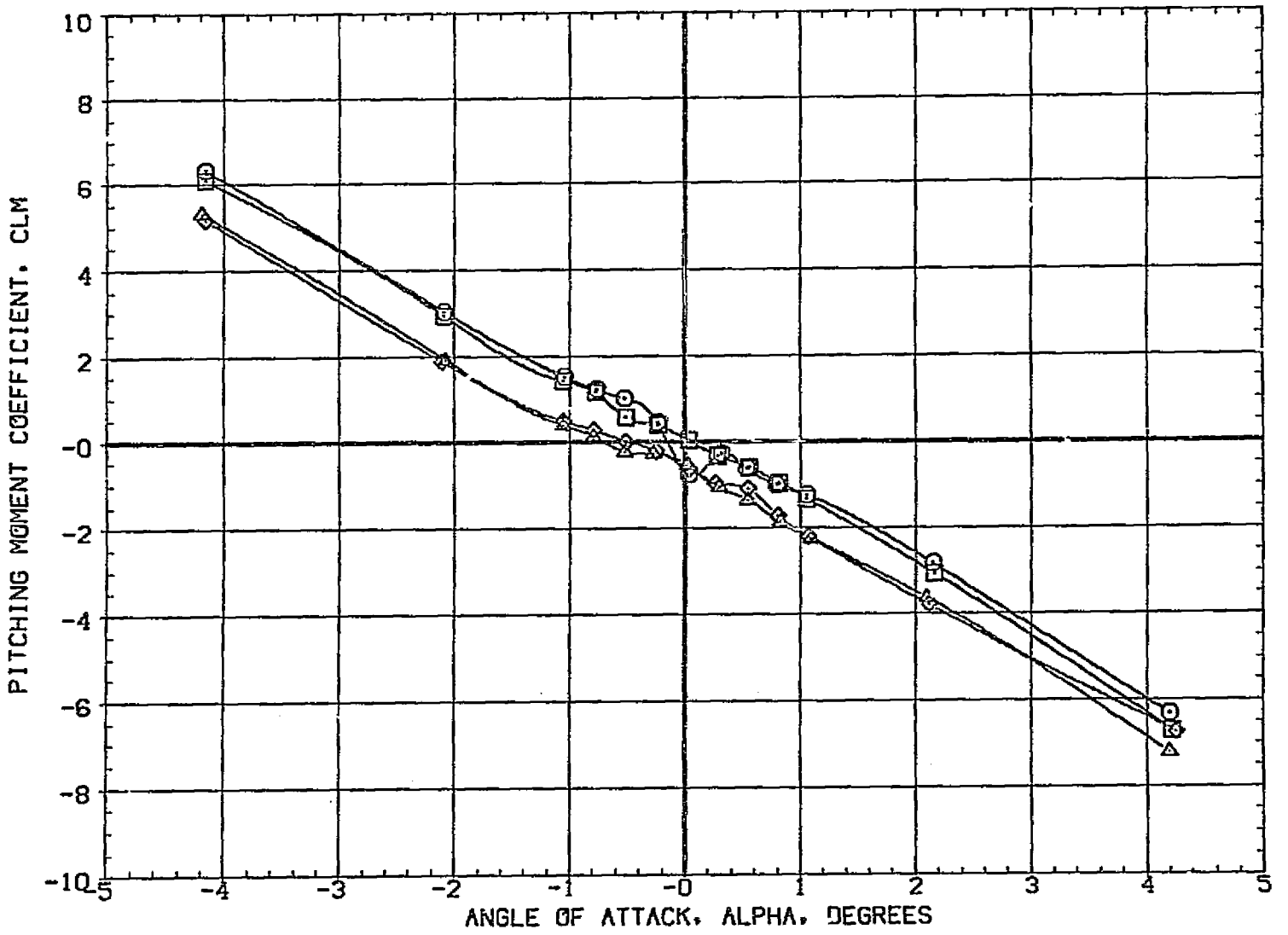
(C)MACH = 0.95

A33A

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	○	DCAT ARC 603/604 B2 F4 C
(BX1013)	□	DCAT ARC 603/604 B2 F4 C
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	FOJ/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



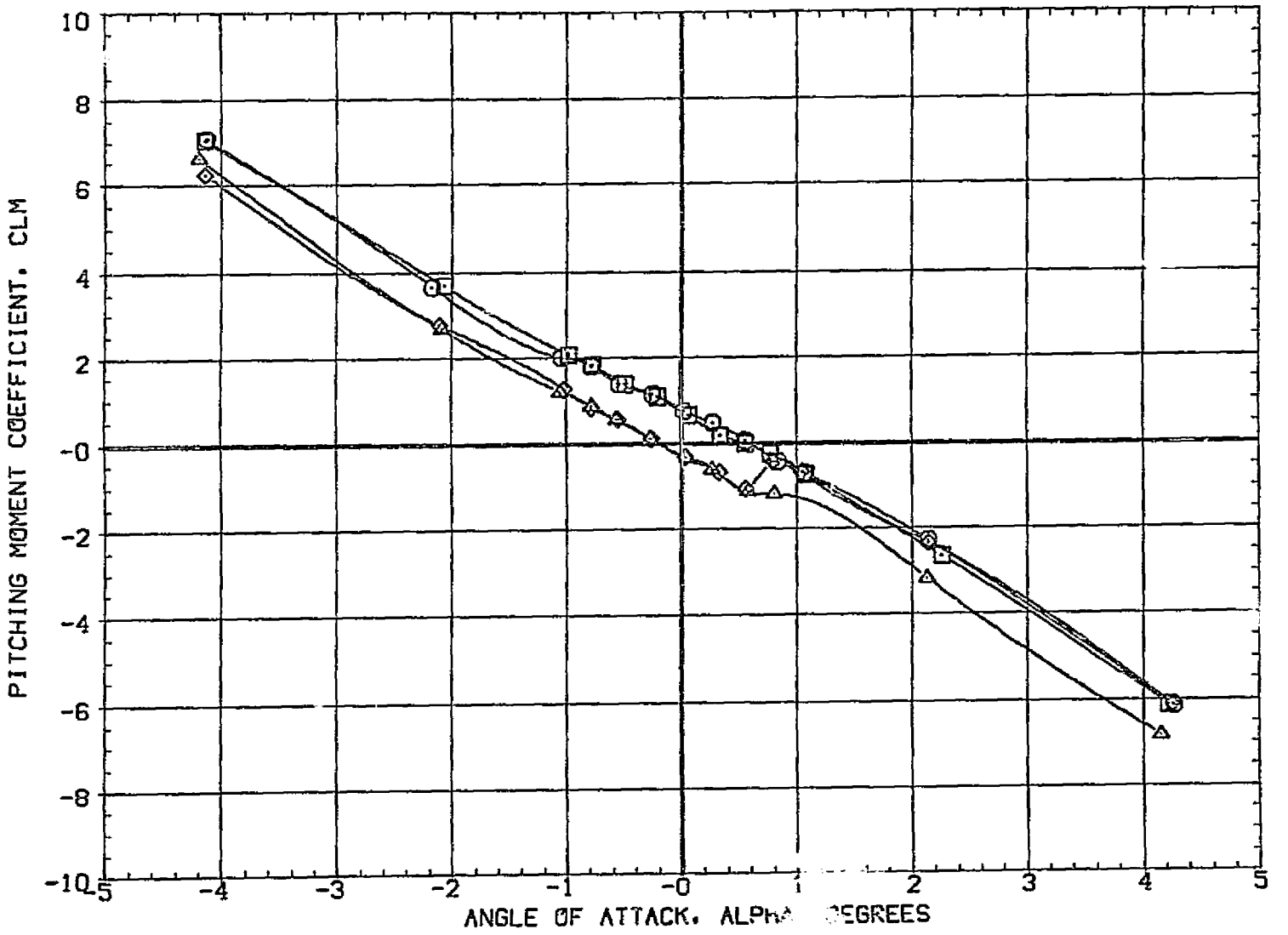
PITCH MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	○	DCAT ARC 603/604 B2 F4 C
(BX1013)	□	DCAT ARC 603/604 B2 F4 C
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/FF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



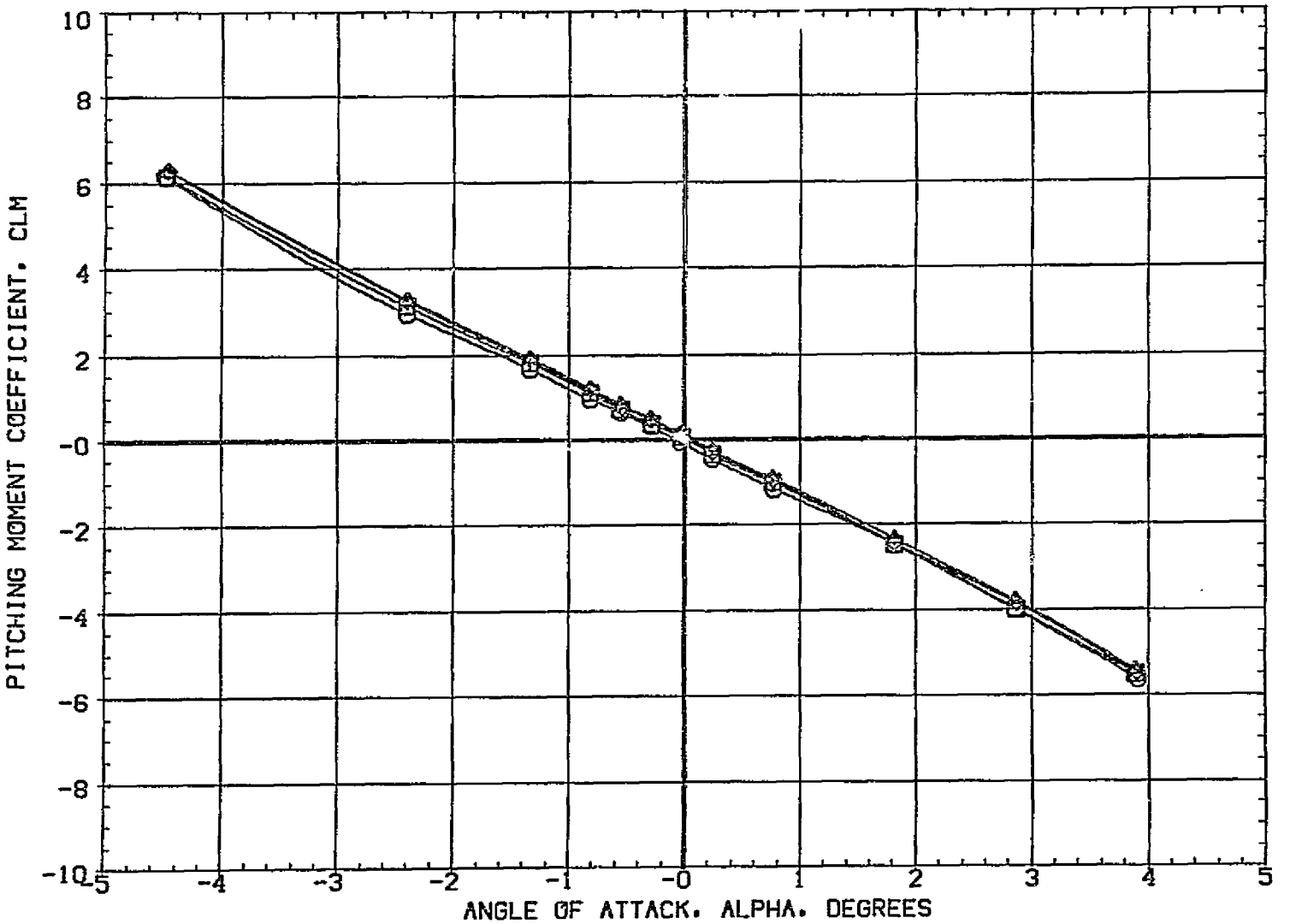
PITCH MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	○	DCAT ARC 603/604 B2 F4 C
(BX1013)	□	DCAT ARC 603/604 B2 F4 C
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



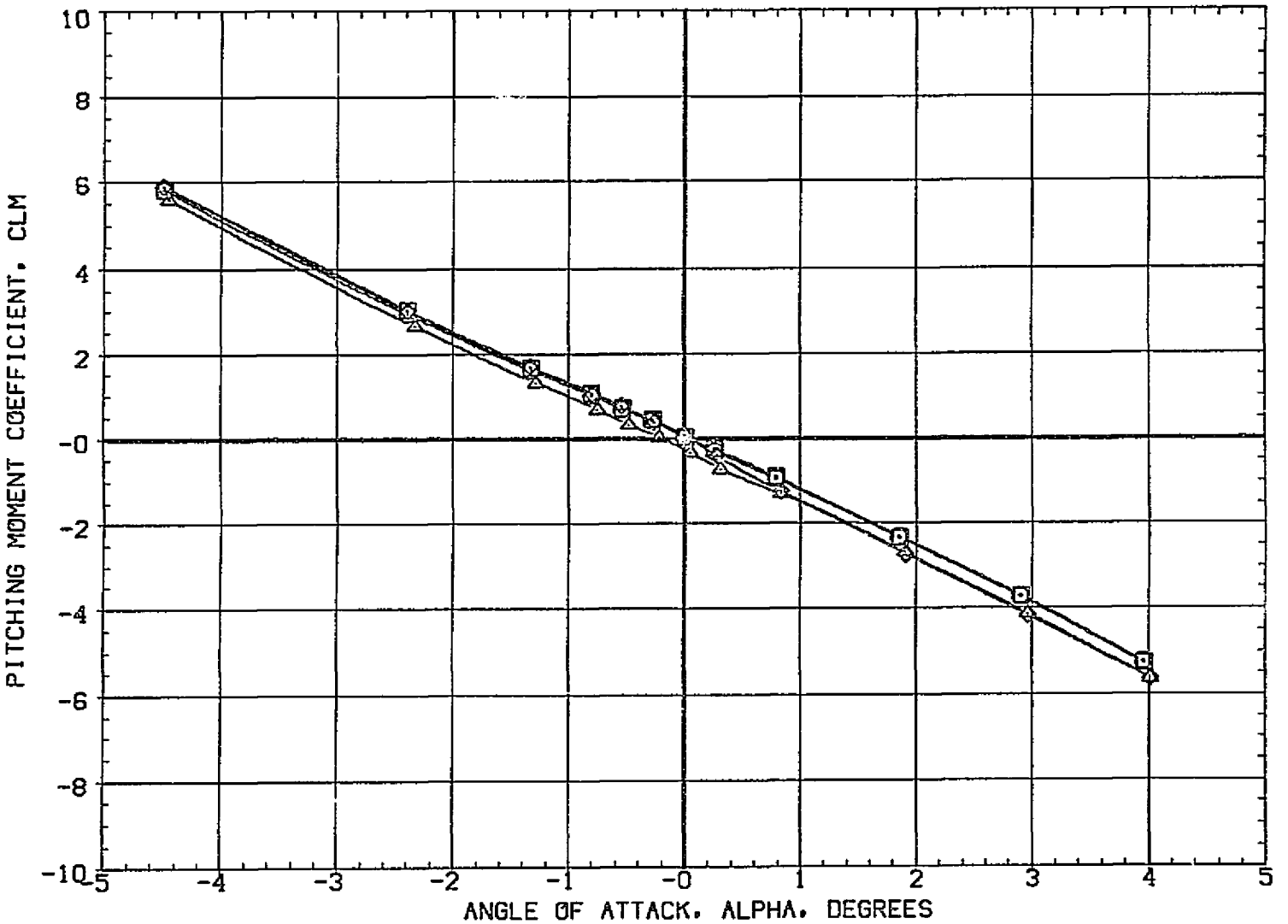
PITCH MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	○	OCAT ARC 603/604 B2 F4 C
(BX1013)	□	OCAT ARC 603/604 B2 F4 C
(BX1014)	◇	OCAT ARC 603/604 B2 F4 C
(BX1015)	△	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POL/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



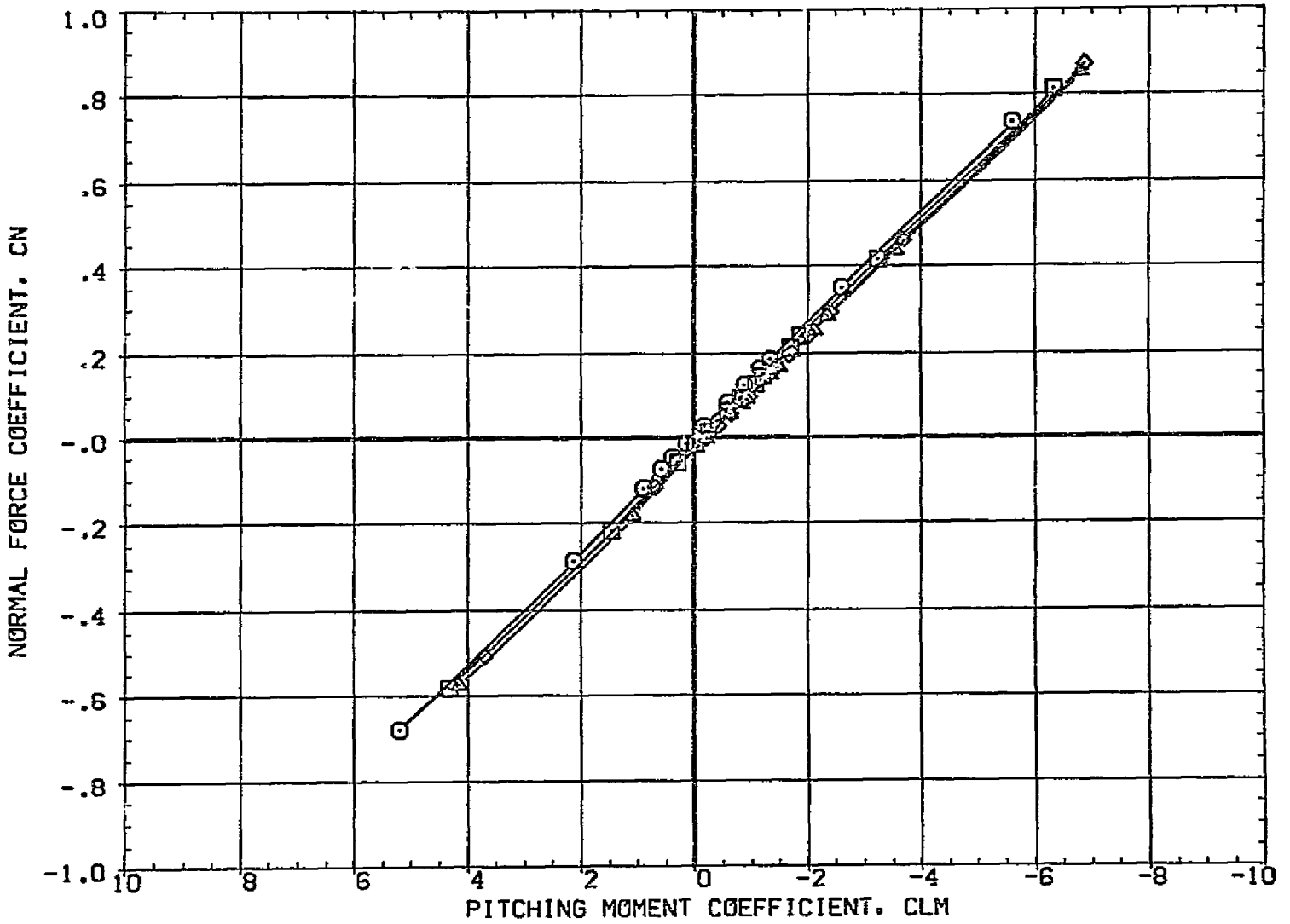
PITCH MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	○	DCAT ARC 603/604 B2 F4 C
(BX1013)	□	DCAT ARC 603/604 B2 F4 C
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

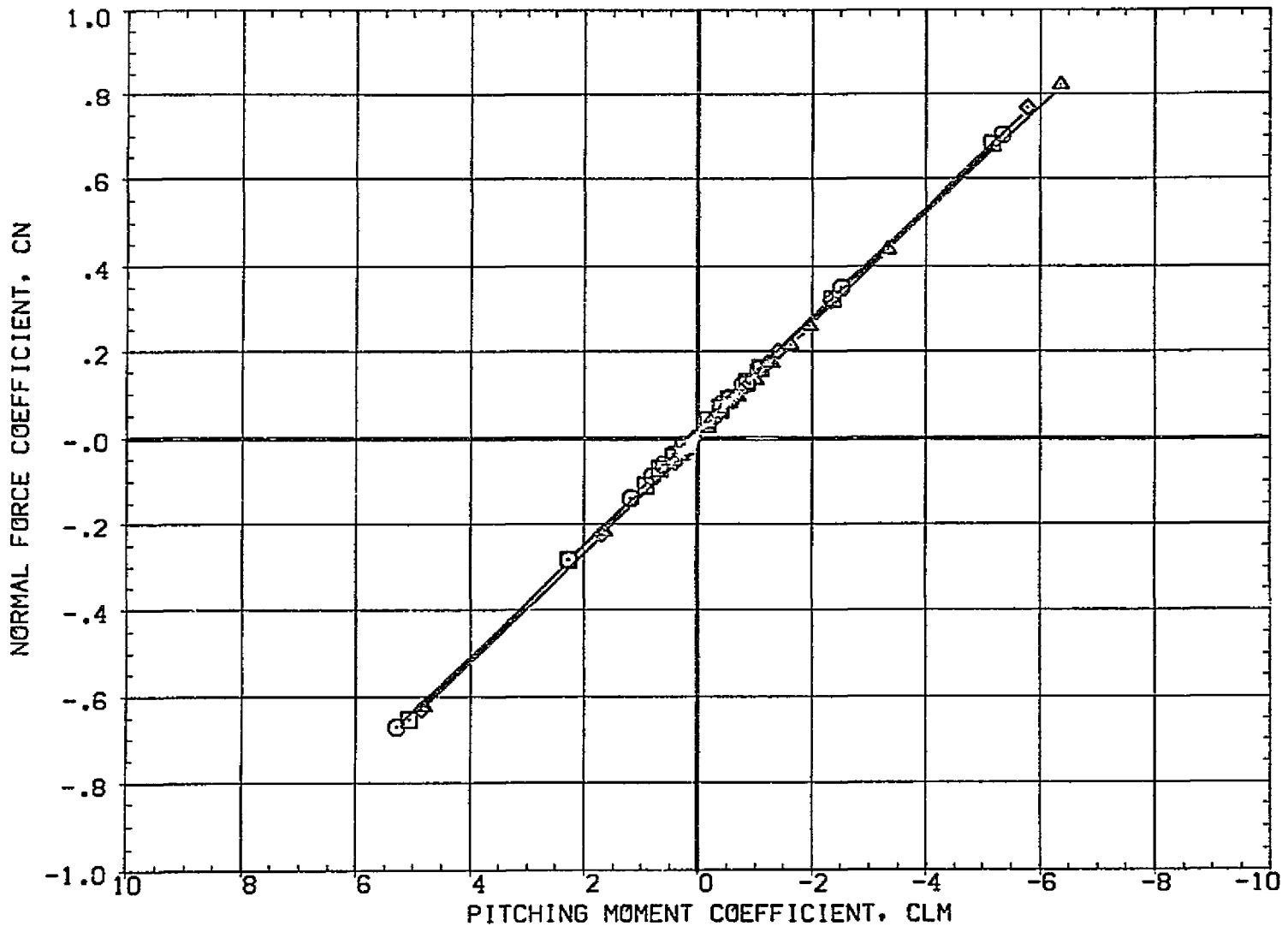


PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1012)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000
(BX1013)	□	OCAT ARC 603/604 B2 F4 C	.000	40.000	100.000	86.000
(BX1014)	◇	OCAT ARC 603/604 B2 F4 C	.000	60.000	100.000	86.000
(BX1015)	△	OCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



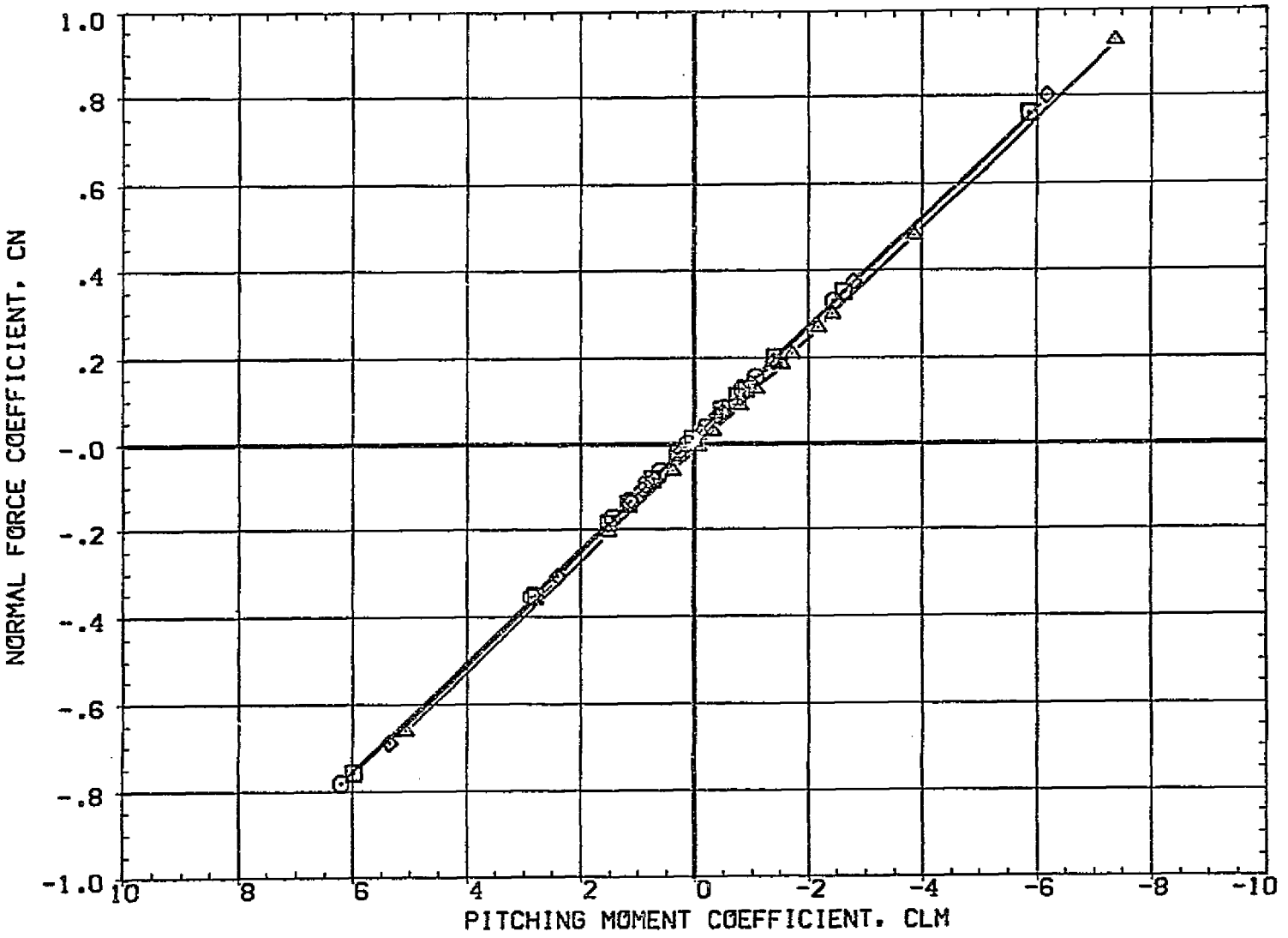
PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	□	DCAT ARC 603/604 B2 F4 C
(BX1013)	□	DCAT ARC 603/604 B2 F4 C
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



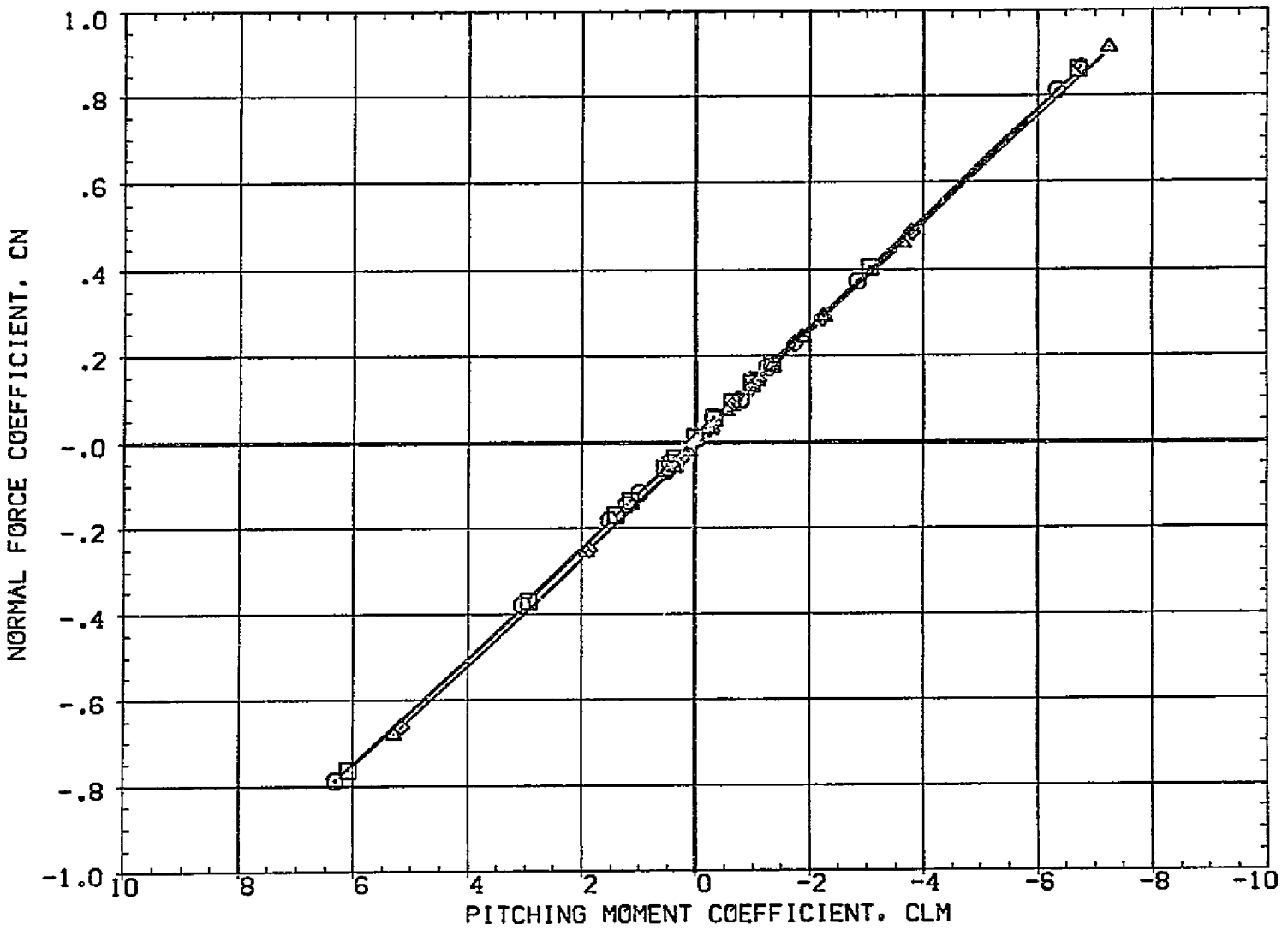
PITCH MODULATION EFFECT

(C)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	○	DCAT ARC 603/604 B2 F4 C
(BX1013)	□	DCAT ARC 603/604 B2 F4 C
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

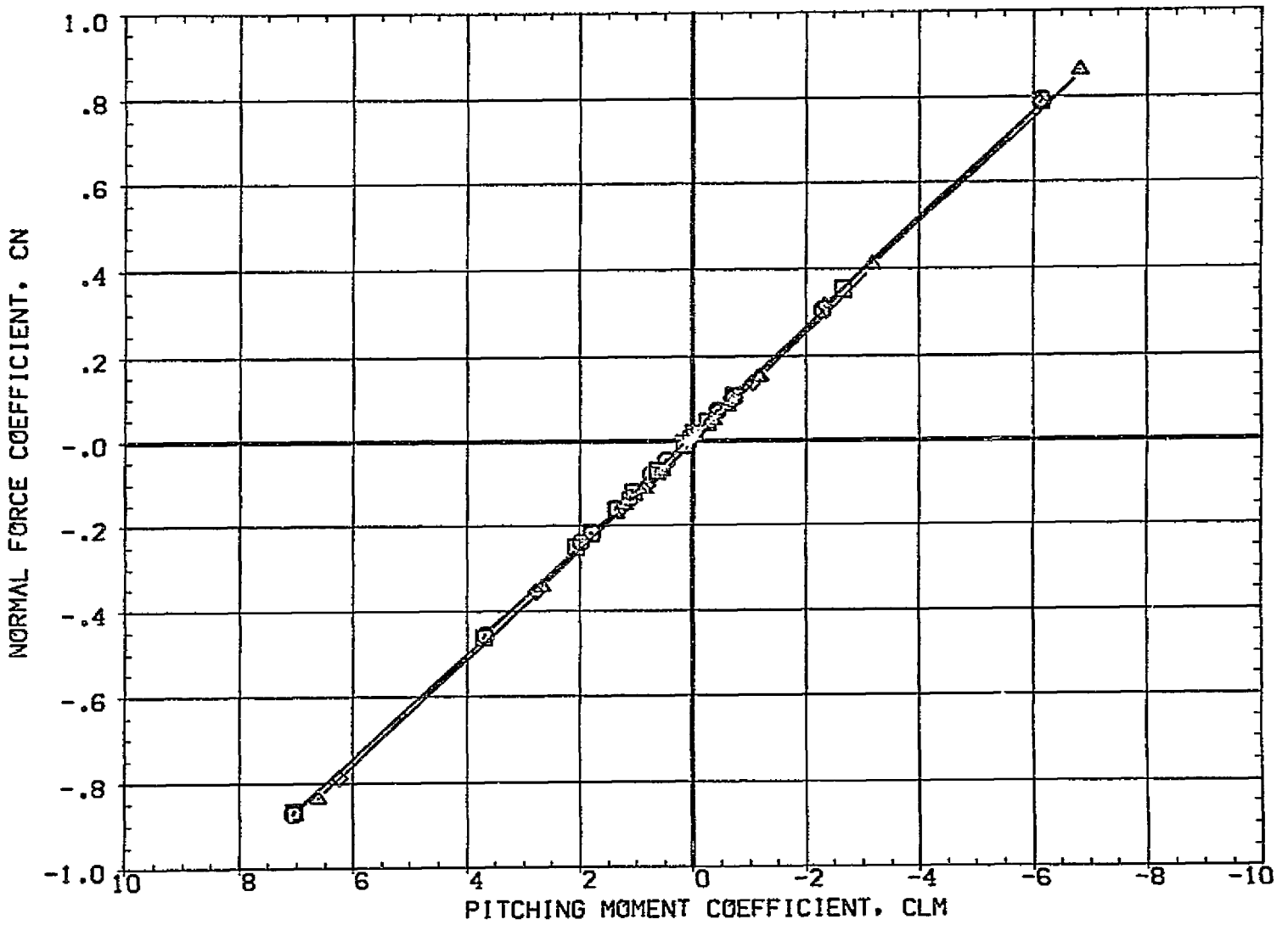
(D)MACH = 1.00

AFFTC

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	○	DCAT ARC 603/604 B2 F4 C
(BX1013)	□	DCAT ARC 603/604 B2 F4 C
(BX1014)	⋈	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



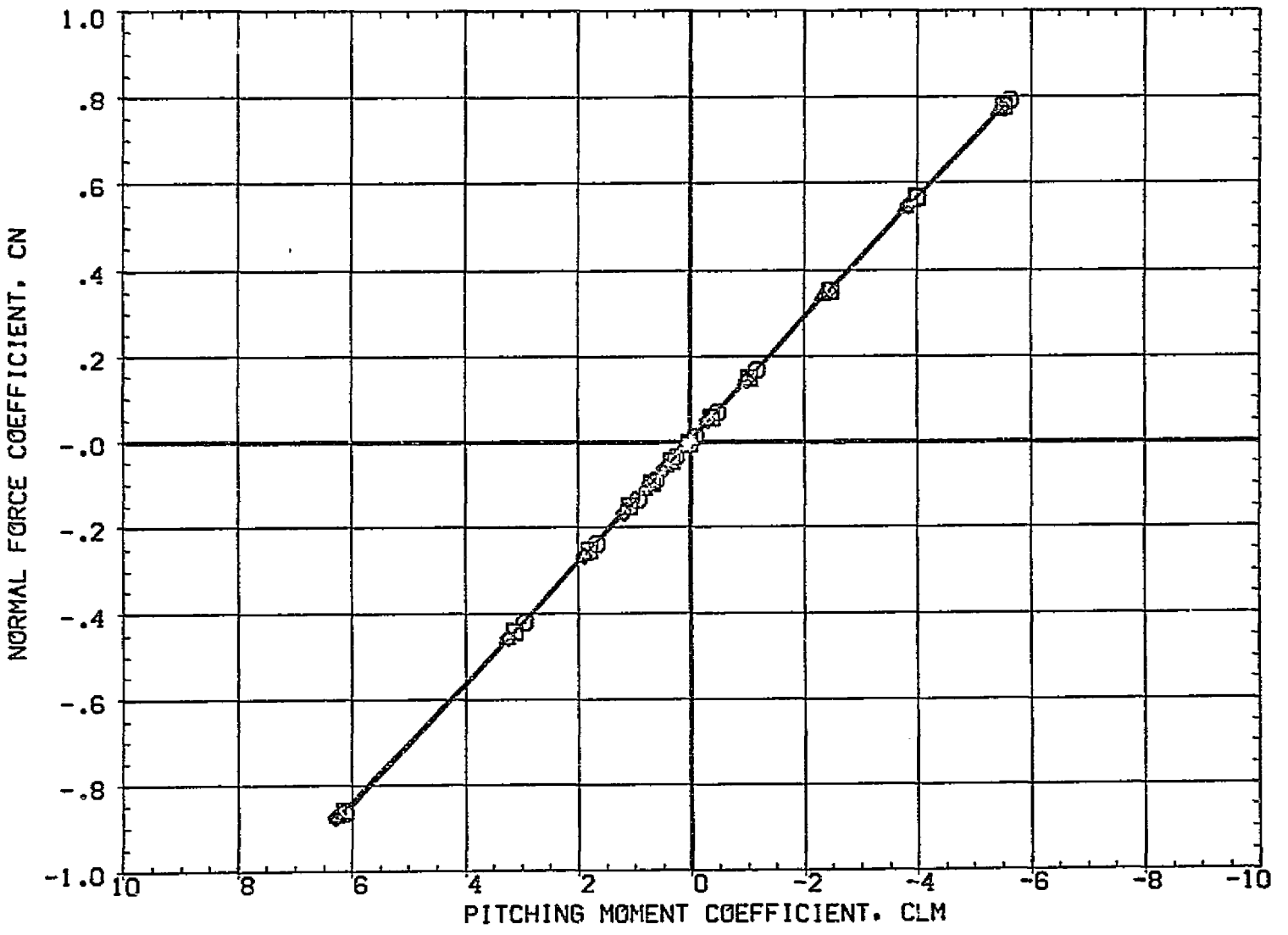
PITCH MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	▭	DCAT ARC 603/604 B2 F4 C
(BX1013)	▭	DCAT ARC 603/604 B2 F4 C
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POL/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



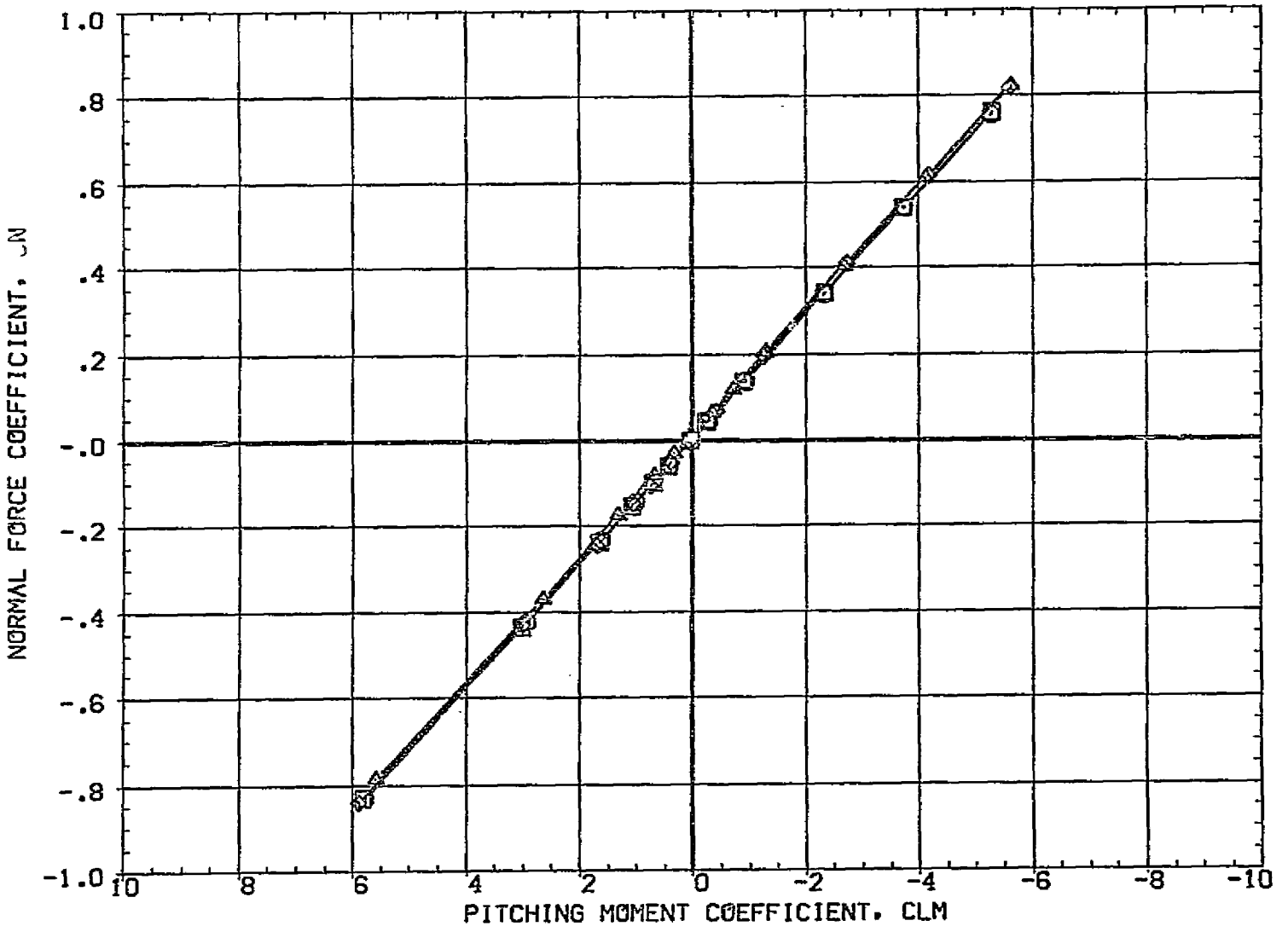
PITCH MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1012)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000
(BX1013)	□	OCAT ARC 603/604 B2 F4 C	.000	40.000	100.000	86.000
(BX1014)	◇	OCAT ARC 603/604 B2 F4 C	.000	60.000	100.000	86.000
(BX1015)	△	OCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



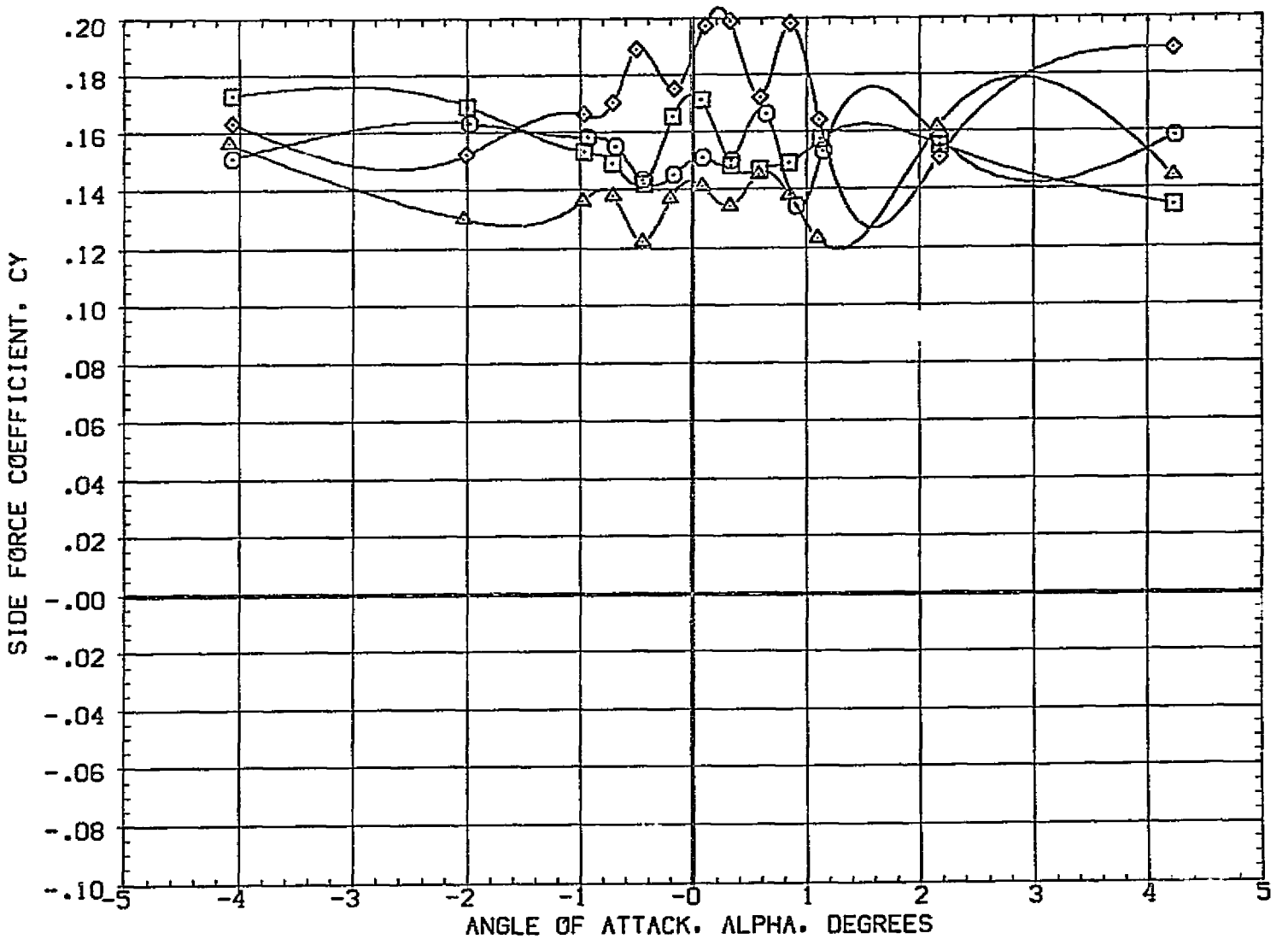
PITCH MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	○	OCAT ARC 603/604 B2 F4 C
(BX1013)	□	OCAT ARC 603/604 B2 F4 C
(BX1014)	◇	OCAT ARC 603/604 B2 F4 C
(BX1015)	△	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	85.000
.000	40.000	100.000	85.000
.000	60.000	100.000	85.000
.000	100.000	100.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



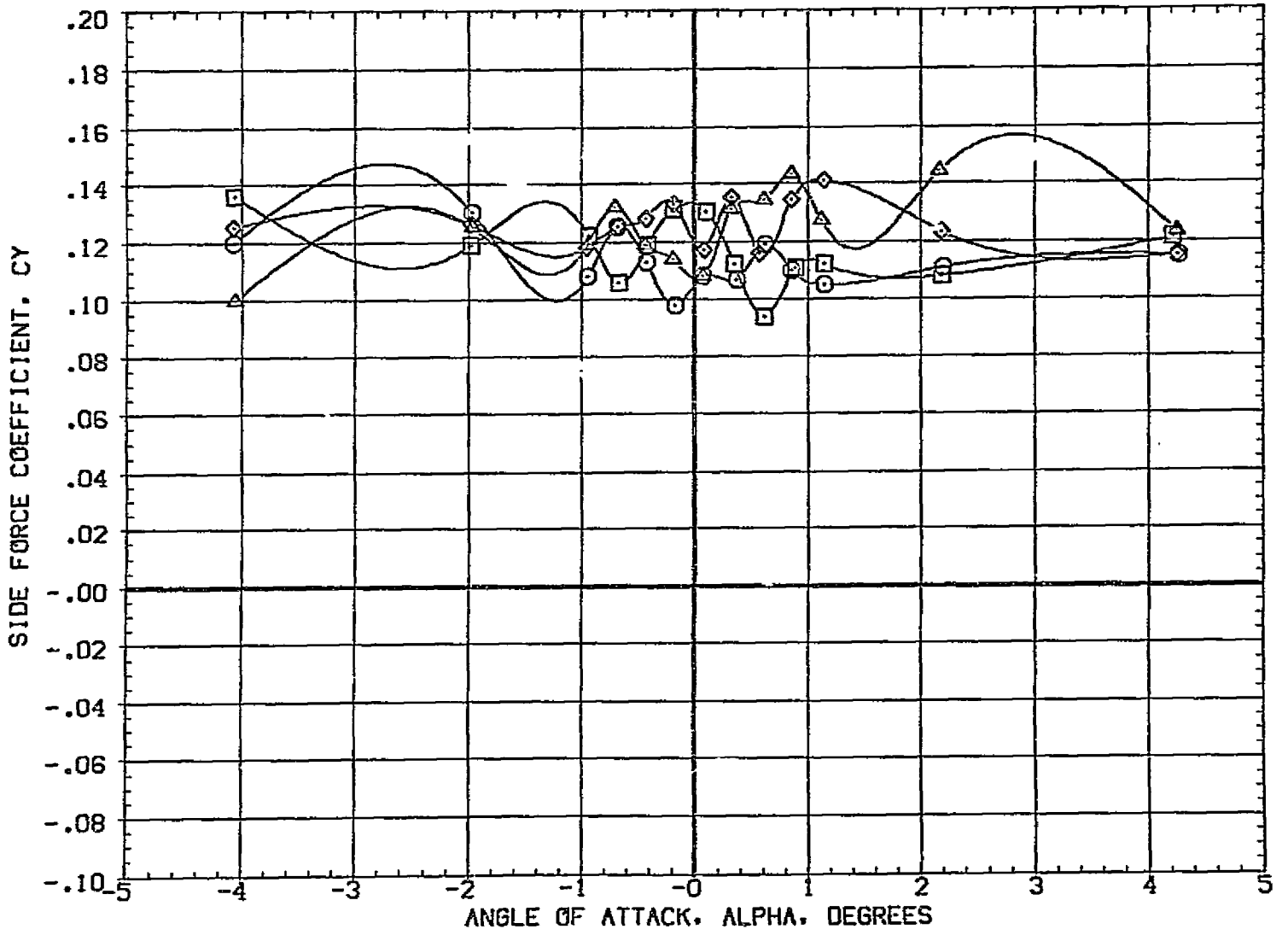
PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	○	DCAT ARC 603/604 B2 F4 C
(BX1013)	□	DCAT ARC 603/604 B2 F4 C
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



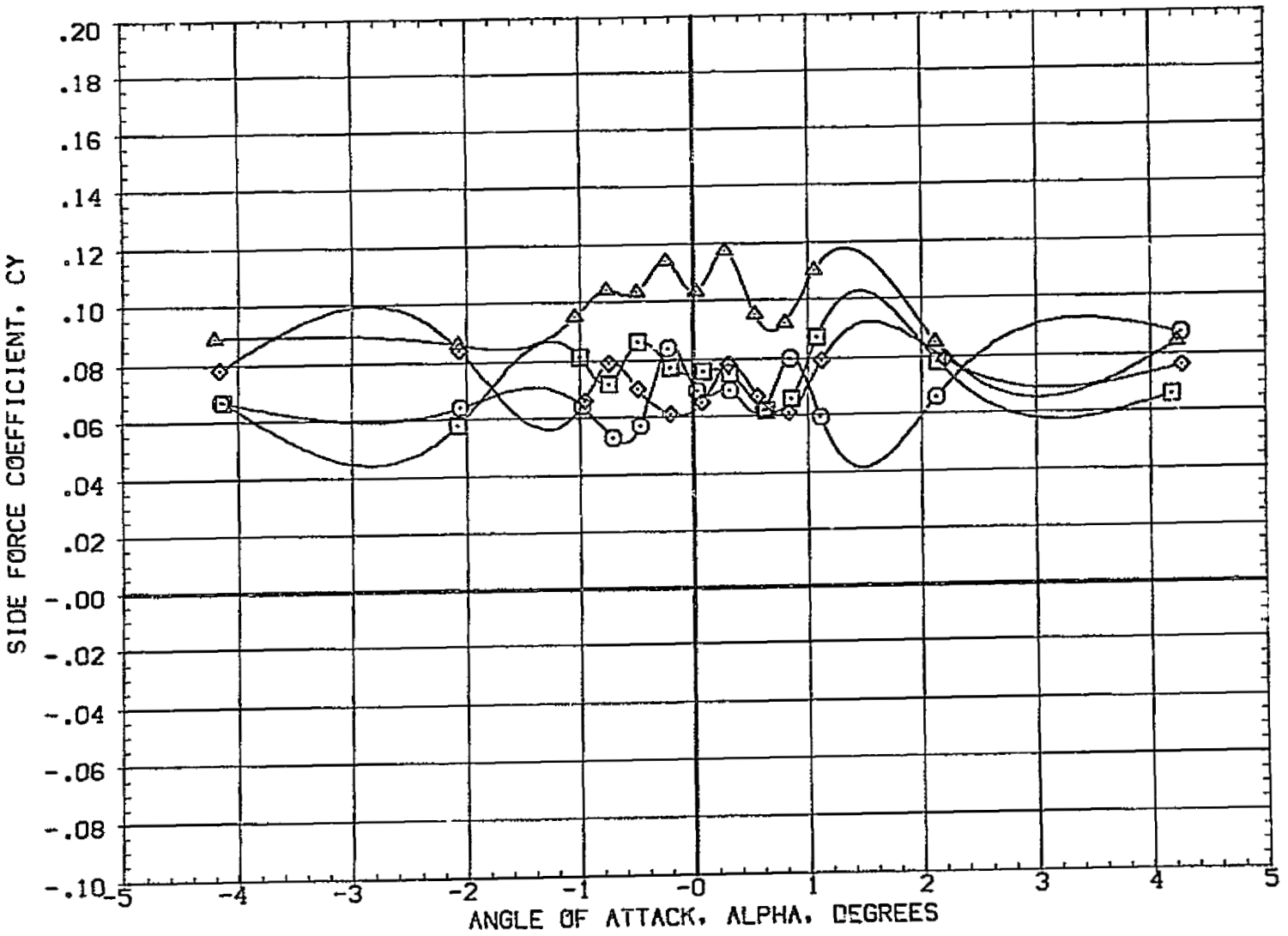
PITCH MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)		OCAT ARC 603/604 B2 F4 C
(BX1013)		OCAT ARC 603/604 B2 F4 C
(BX1014)		OCAT ARC 603/604 B2 F4 C
(BX1015)		OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



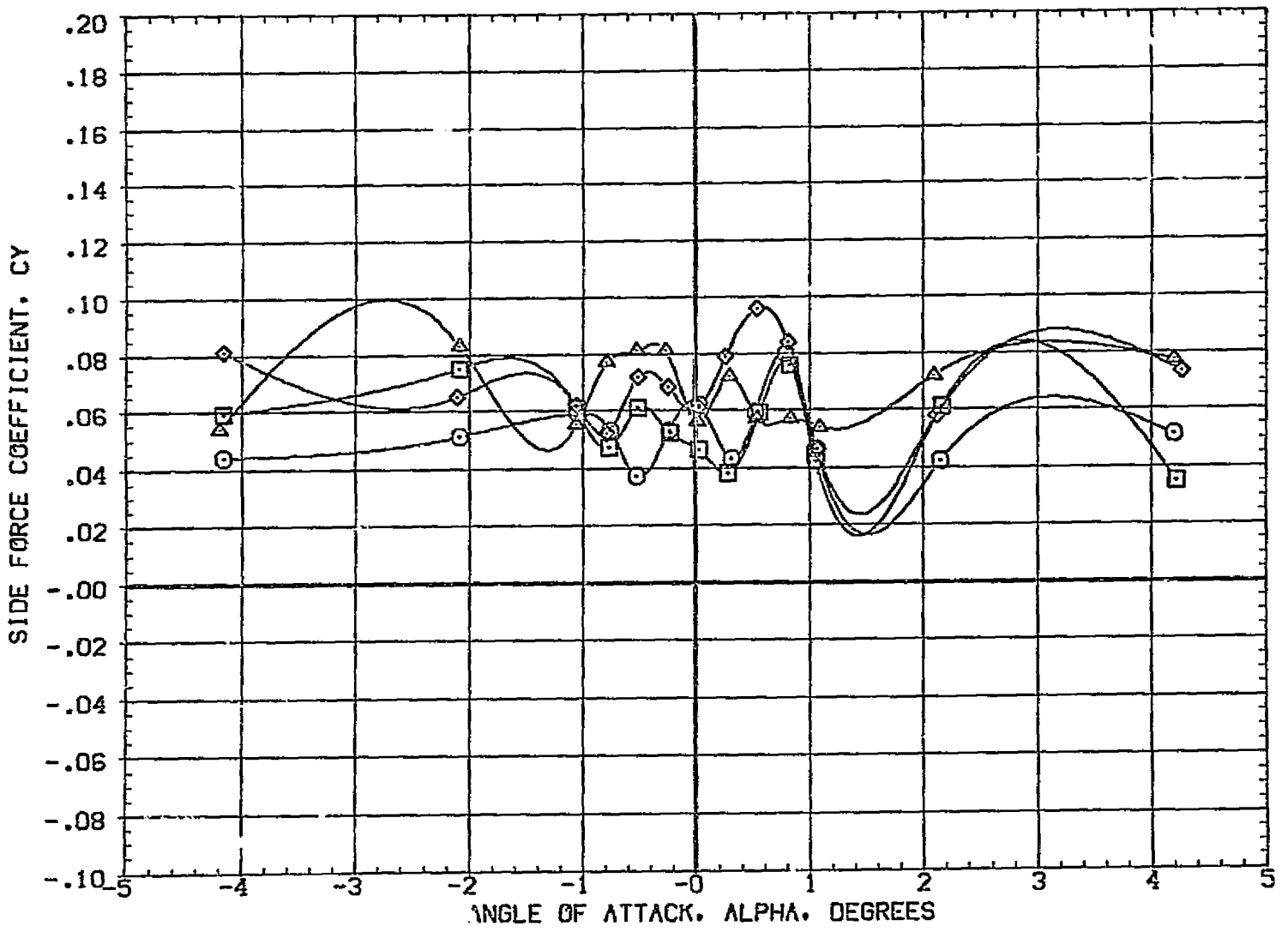
PITCH MODULATION EFFECT

(C)MACH = 0.95

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BX1012)	○	DCAT ARC 603/604 B2 F4 C
(BX1013)	□	DCAT ARC 603/604 B2 F4 C
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



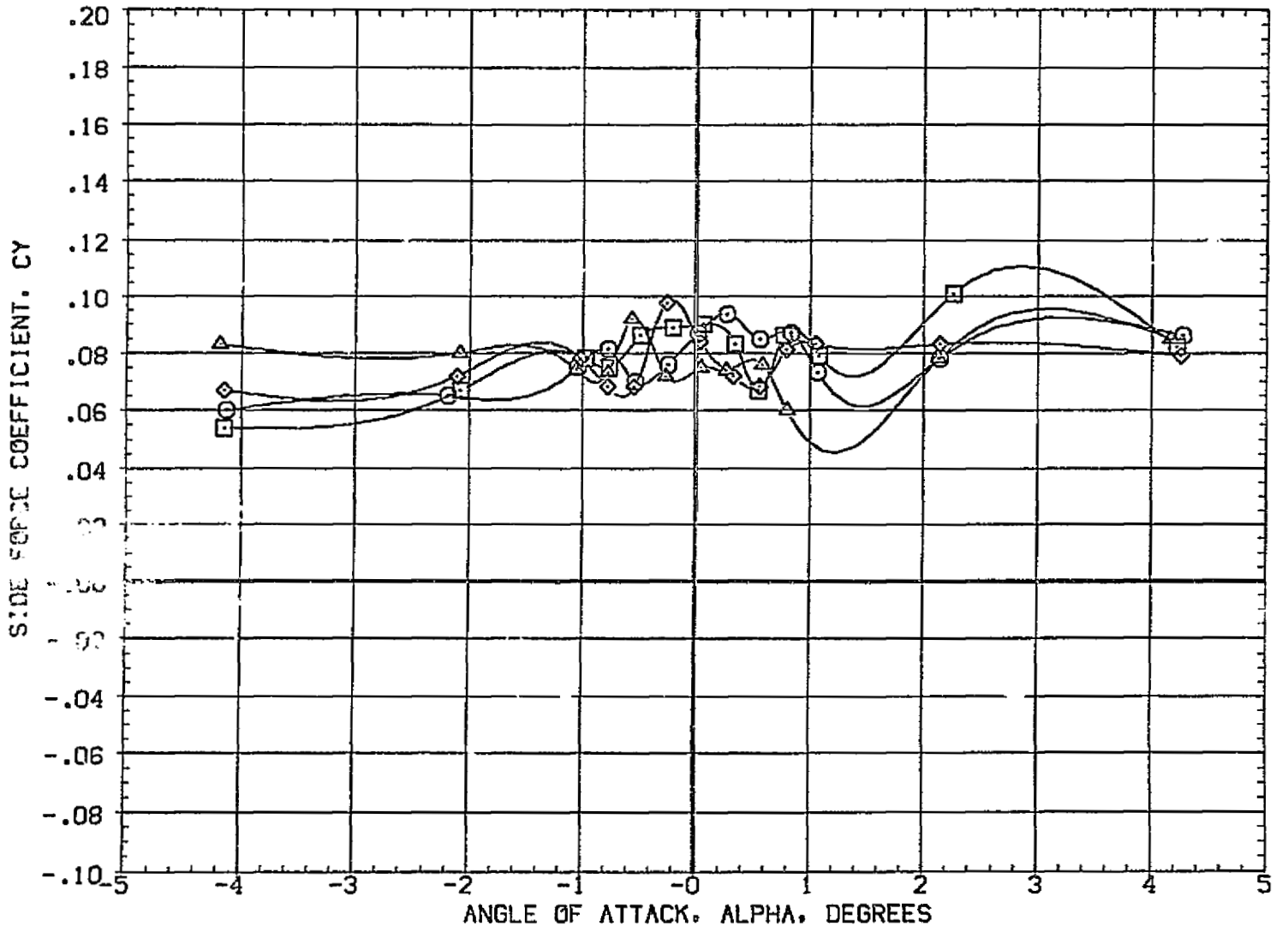
PITCH MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1012)	□	OCAT ARC 603/604 B2 F4 C
(BX1013)	□	OCAT ARC 603/604 B2 F4 C
(BX1014)	⋈	OCAT ARC 603/604 B2 F4 C
(BX1015)	△	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

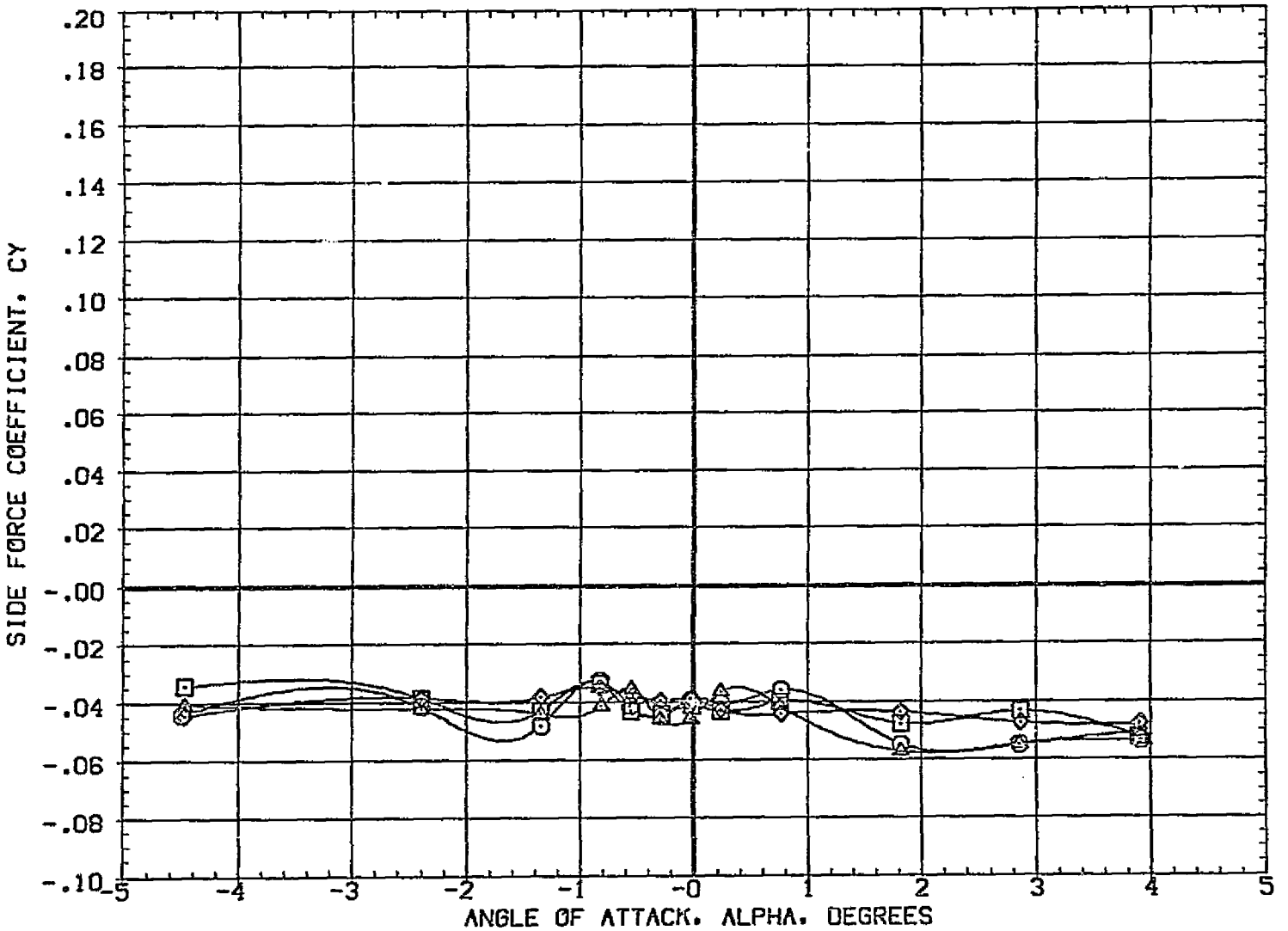


PITCH MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1012)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000
(BX1013)	□	DCAT ARC 603/604 B2 F4 C	.000	40.000	100.000	86.000
(BX1014)	◇	DCAT ARC 603/604 B2 F4 C	.000	60.000	100.000	86.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



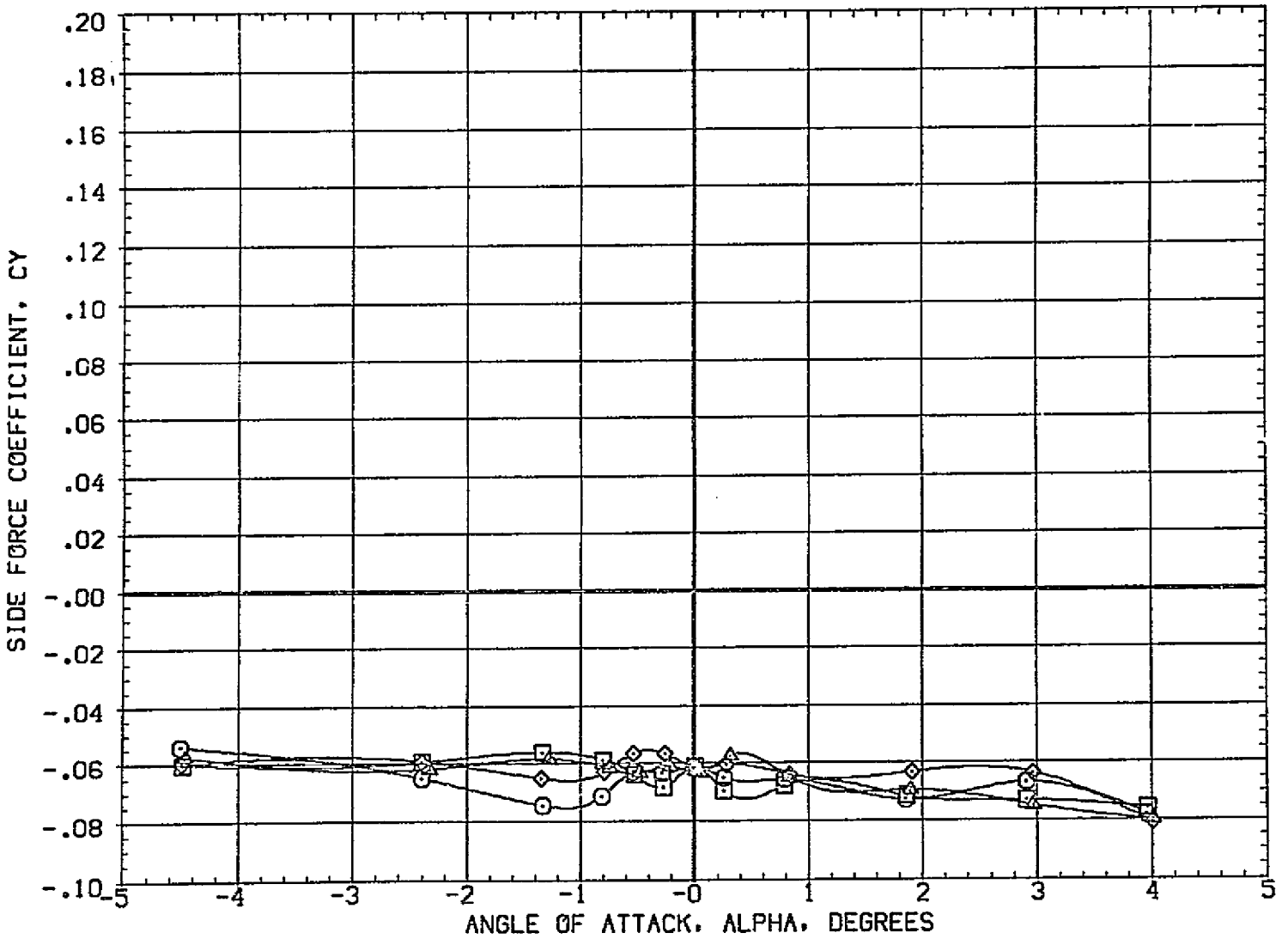
PITCH MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(BX1012)	○	DCAT ARC 603/60[illegible]	B2 F4 C
(BX1013)	□	DCAT ARC 603/604	[illegible] F4 C
(BX1014)	◇	DCAT ARC 603/604	B2 F4 C
(BX1015)	△	DCAT ARC 603/604	B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	60.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

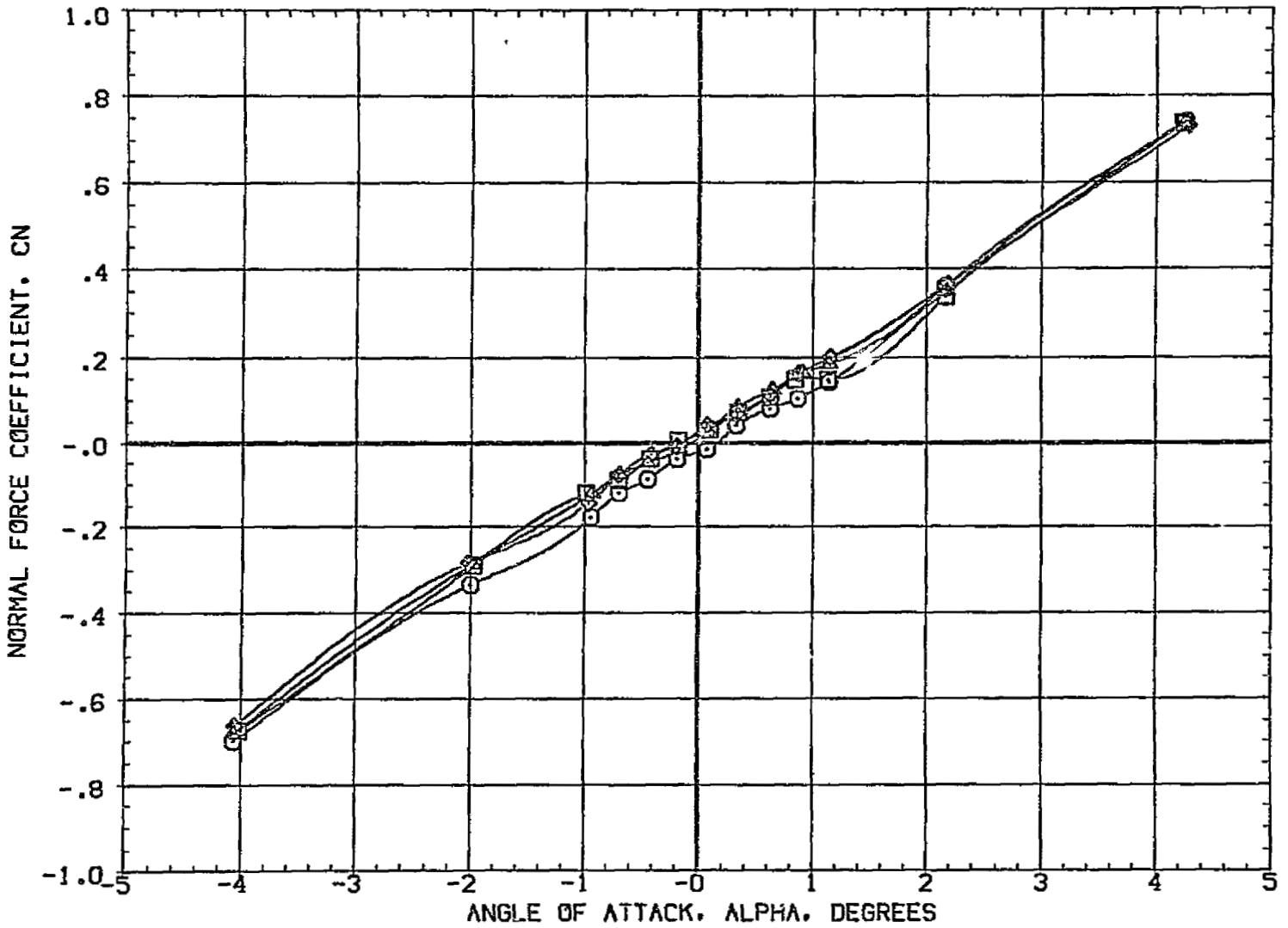


PITCH MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	◇	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	⧖	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

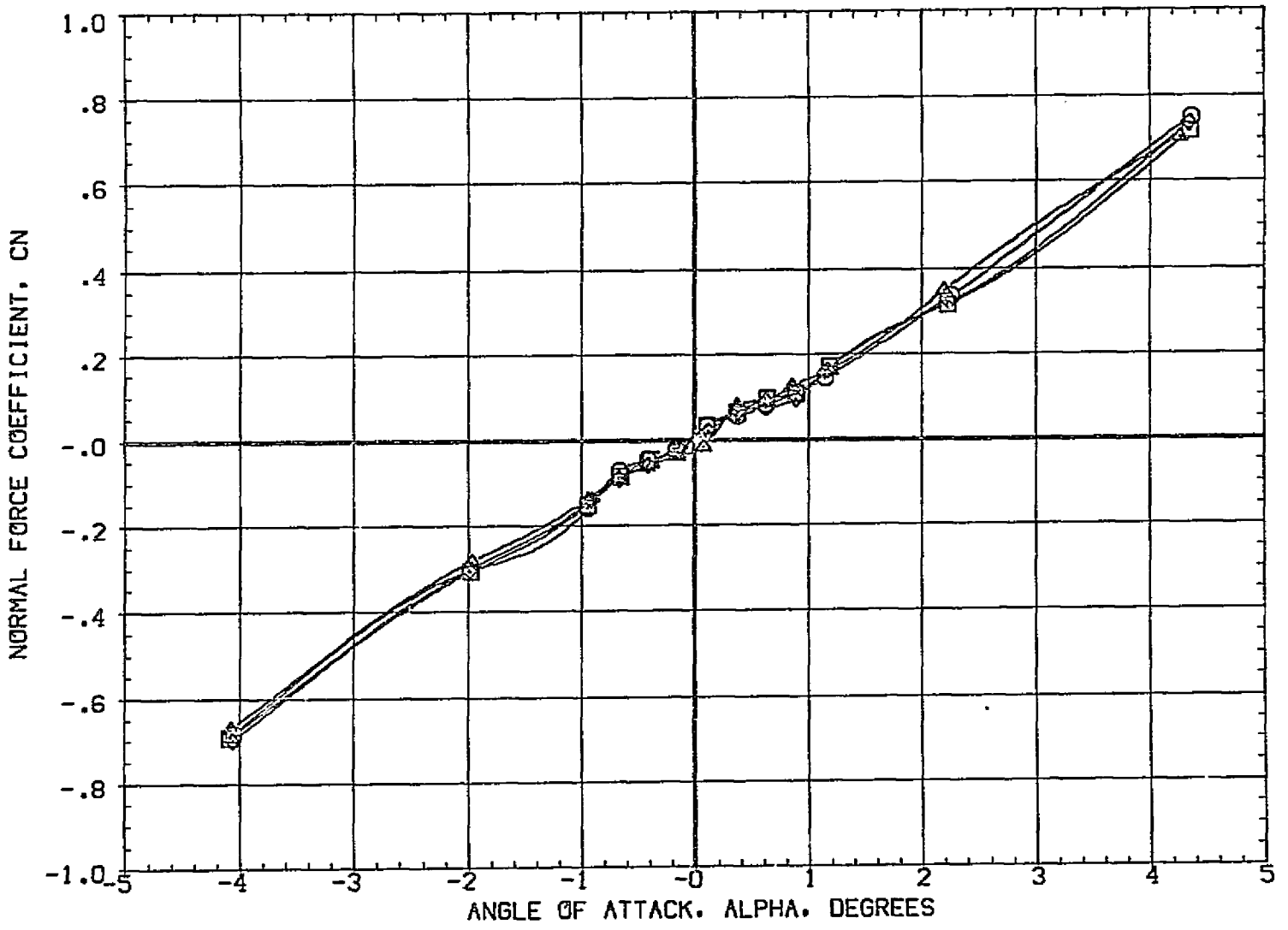


YAW MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PS
(BX1002)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	OCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇	OCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

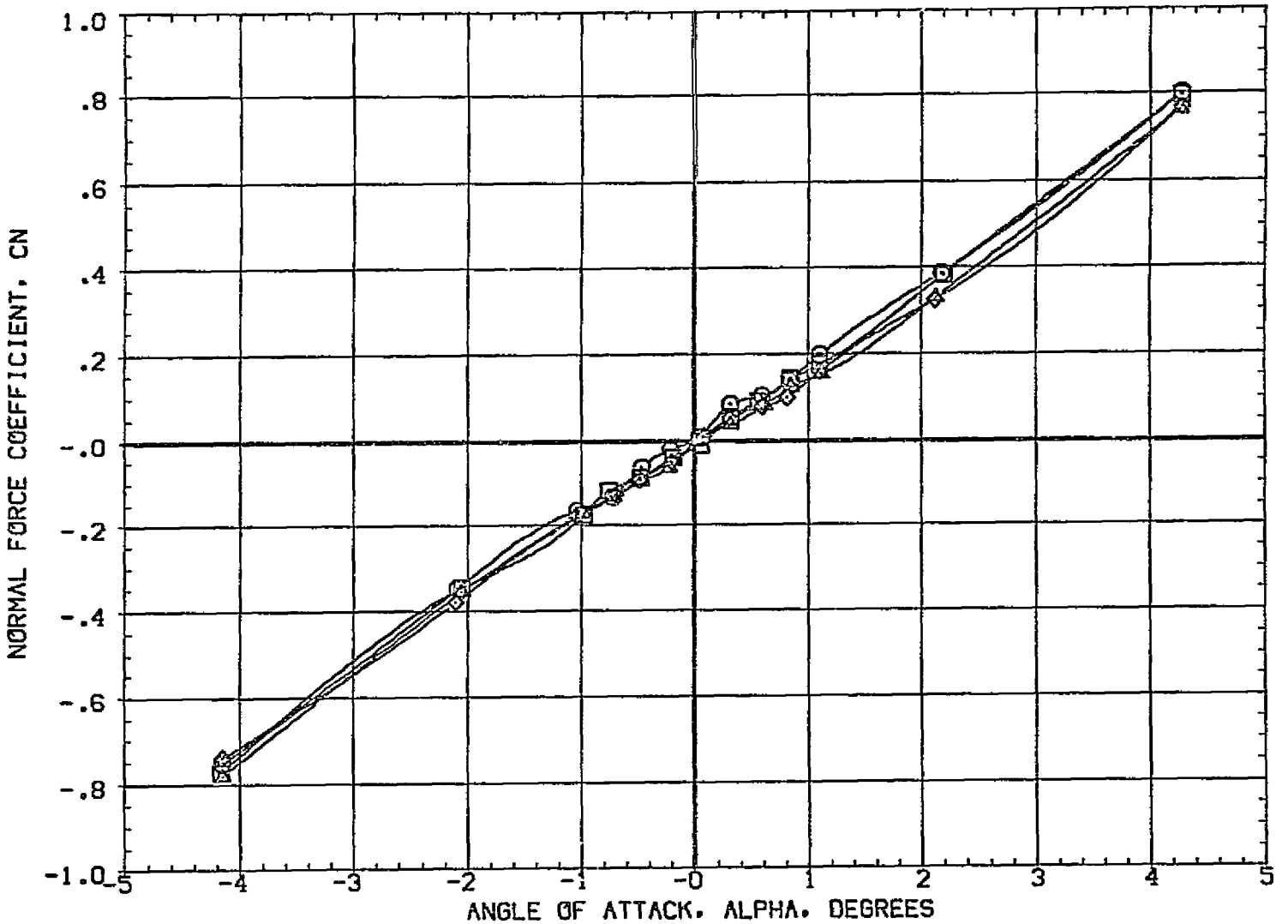


YAW MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



YAW MODULATION EFFECT

(C)MACH = 0.95

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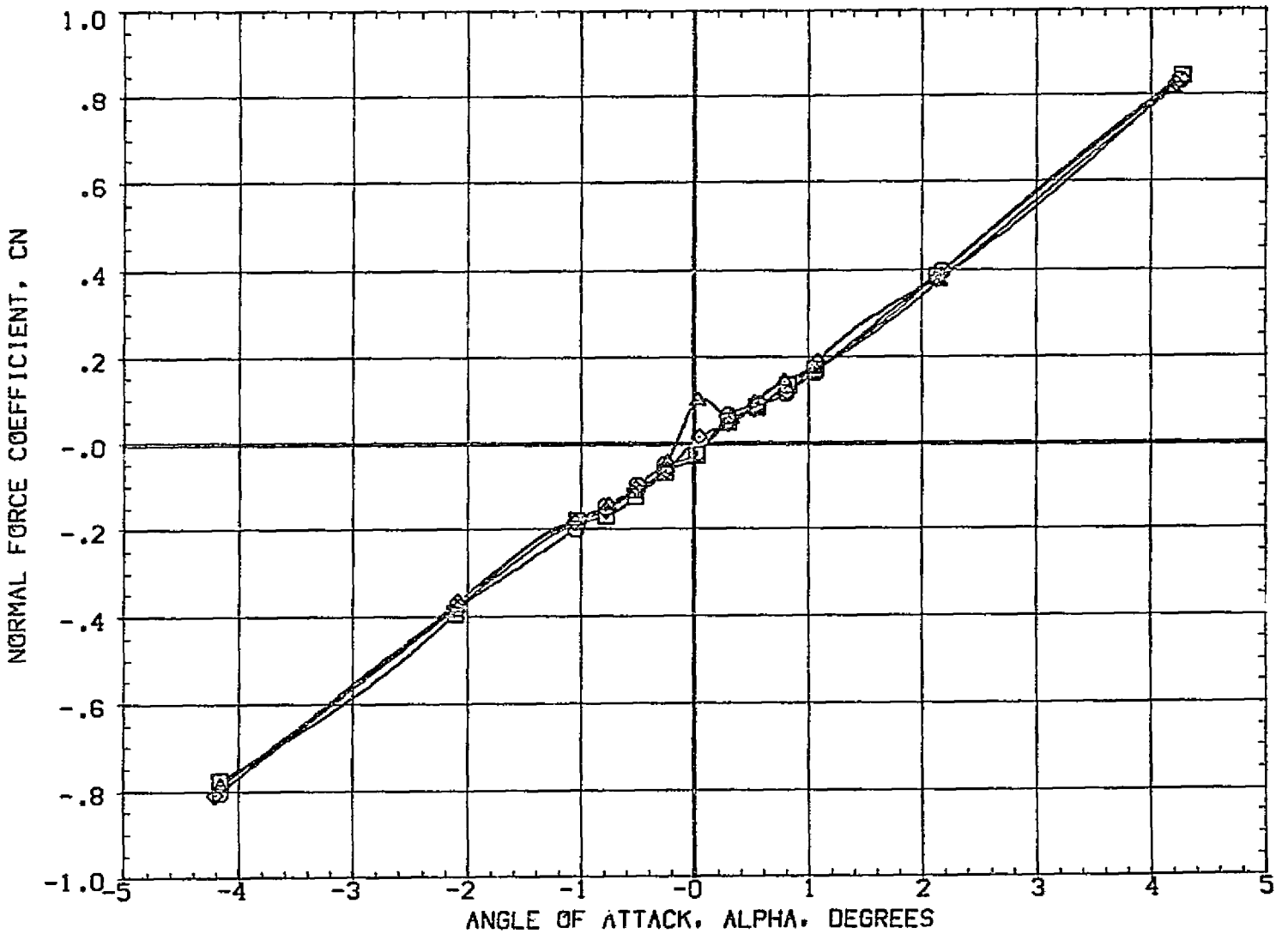
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	DCAT ARC 603/604 B1 F4 C
(BX1006)	□	DCAT ARC 603/604 B2 F4 C
(BX1009)	◇	DCAT ARC 603/604 B2 F4 C
(BX1012)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	.000	86.000
.000	.000	40.000	86.000
.000	.000	60.000	86.000
.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

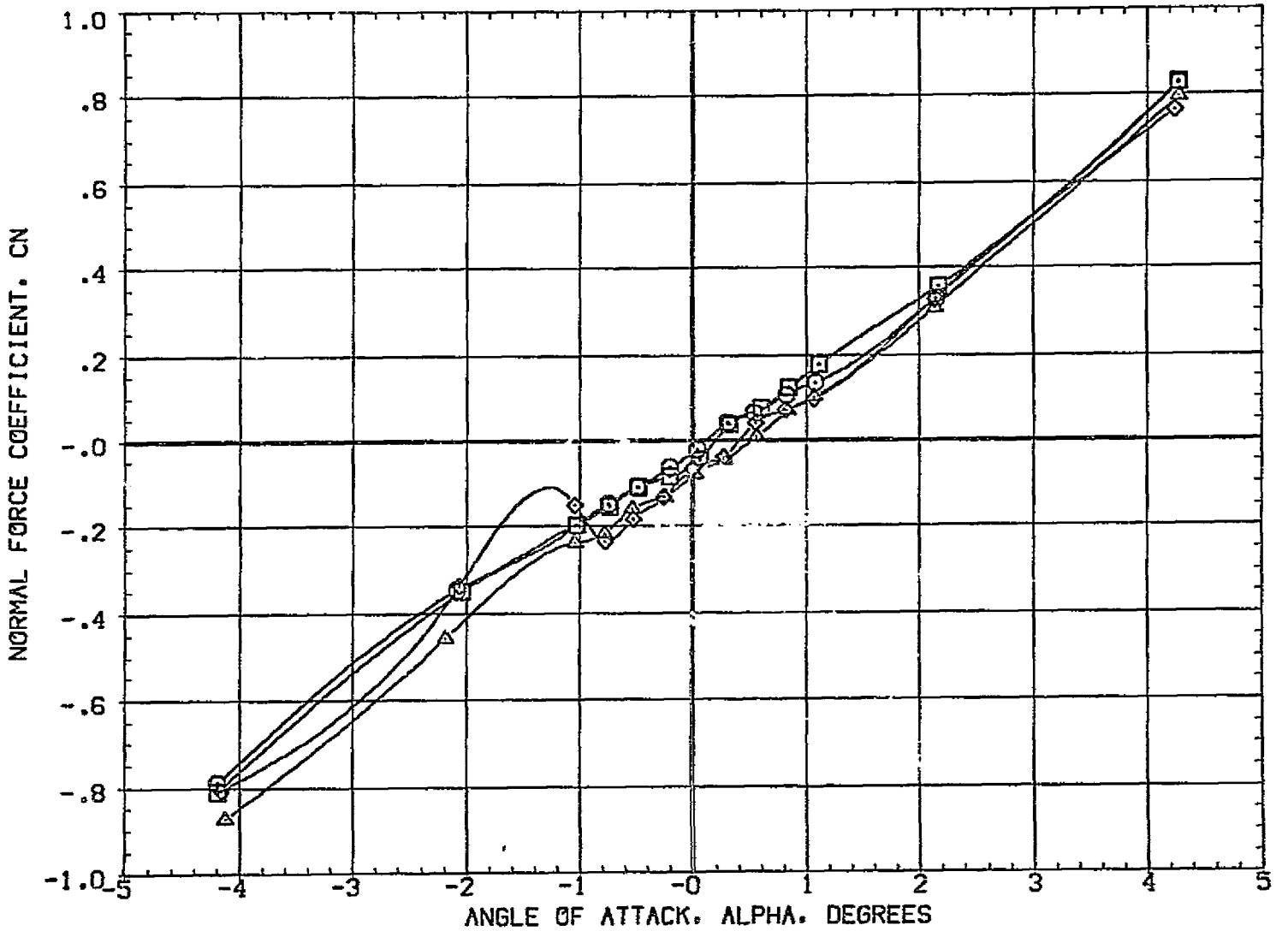


YAW MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

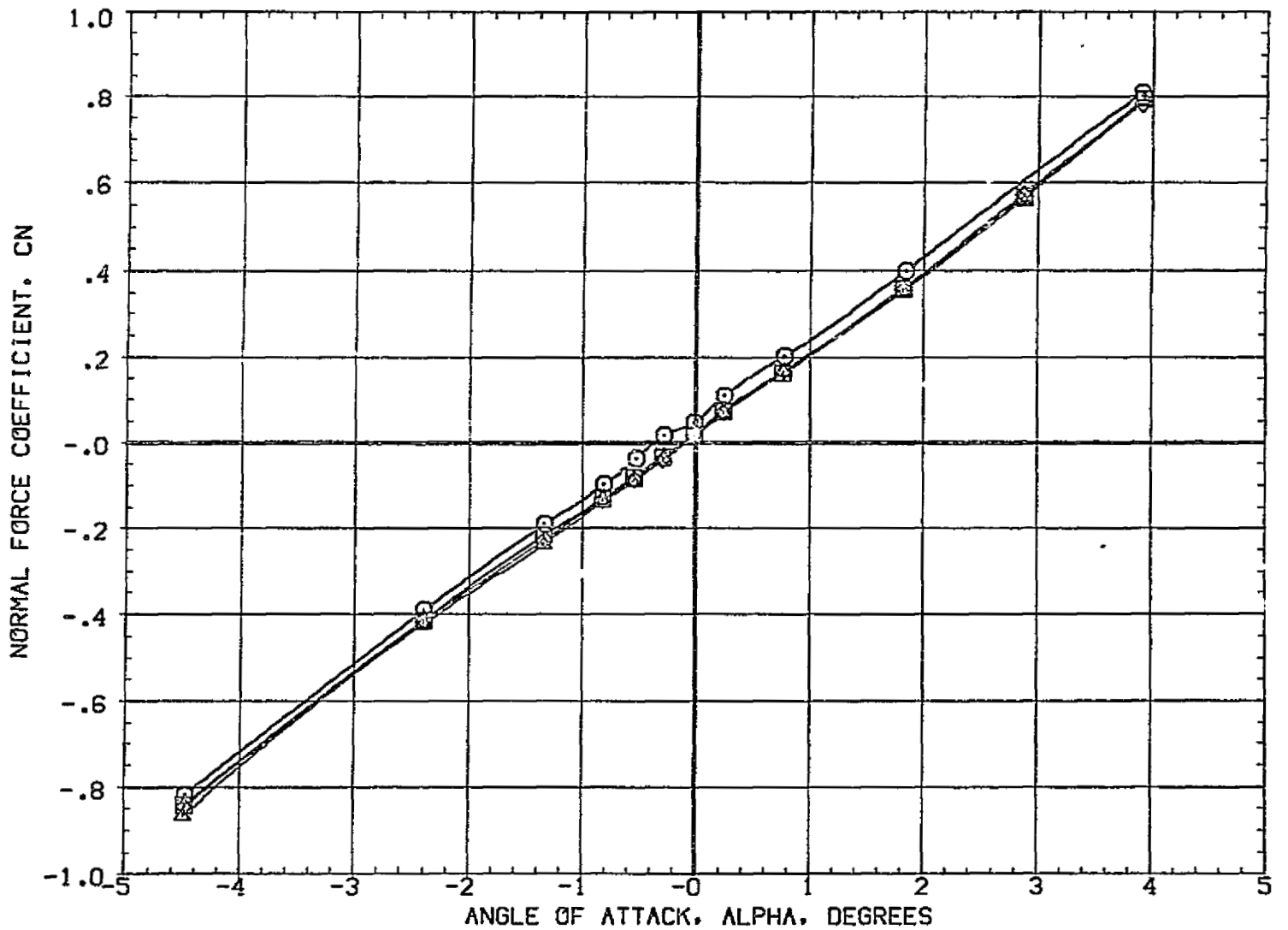


YAW MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	OCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇	OCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

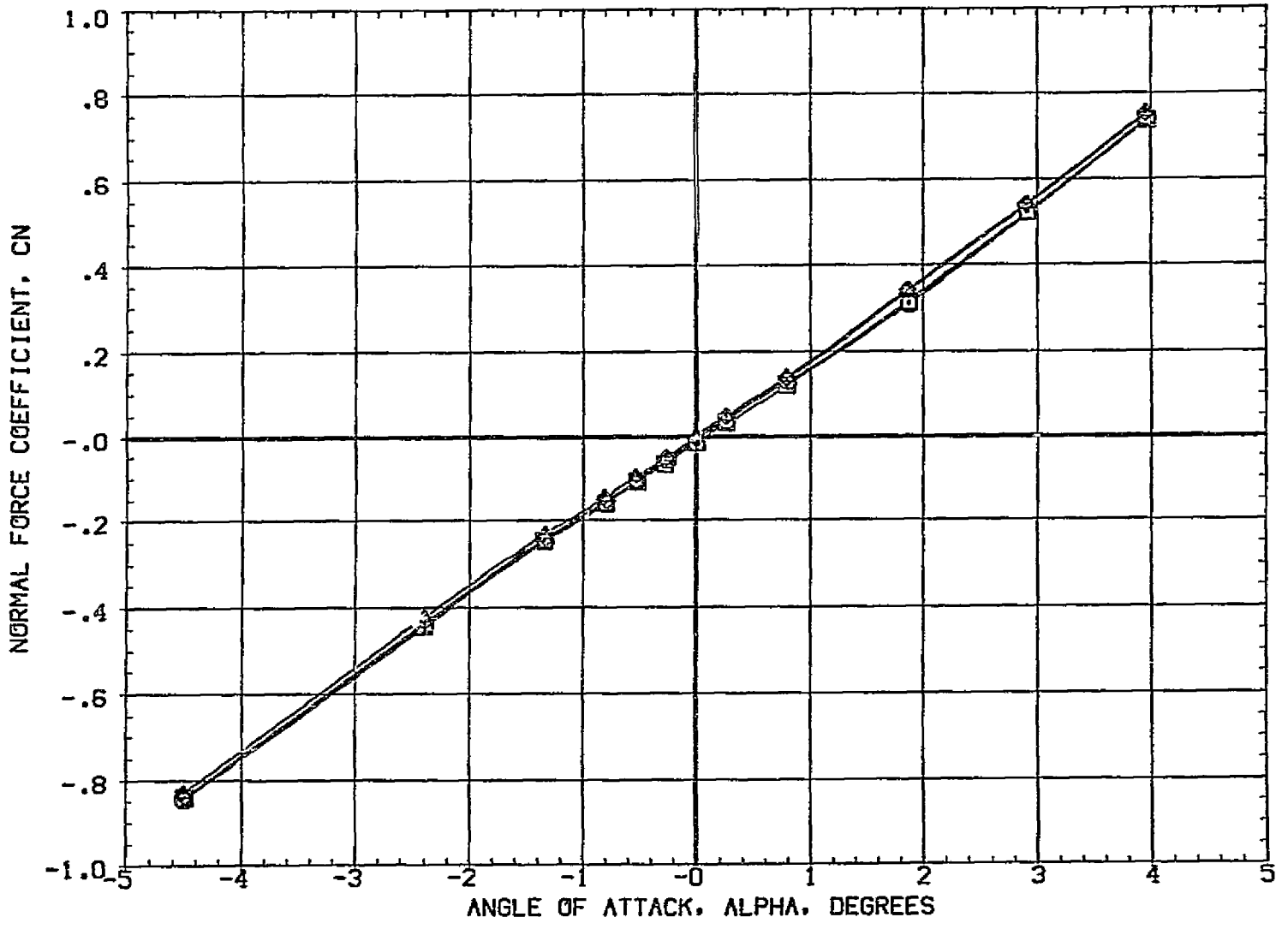


YAW MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	85.000
(BX1006)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	85.000
(BX1009)	⊠	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	85.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



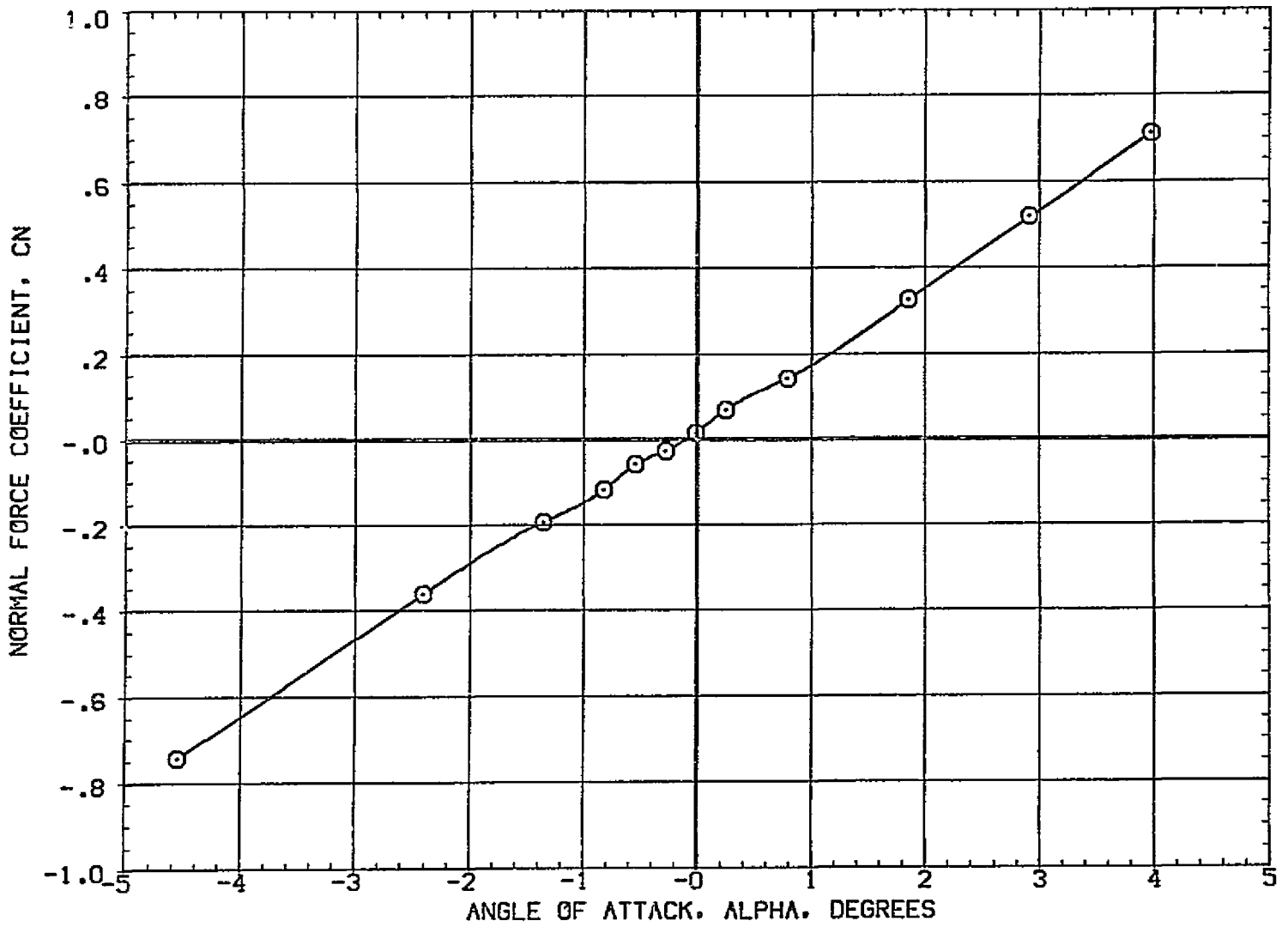
YAW MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	DCAT ARC 603/604 B2 F4 C
(BX1006)	□	DATA NOT AVAILABLE
(BX1009)	◇	DATA NOT AVAILABLE
(BX1012)	△	DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	.000	86.000
.000	.000	40.000	86.000
.000	.000	60.000	86.000
.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

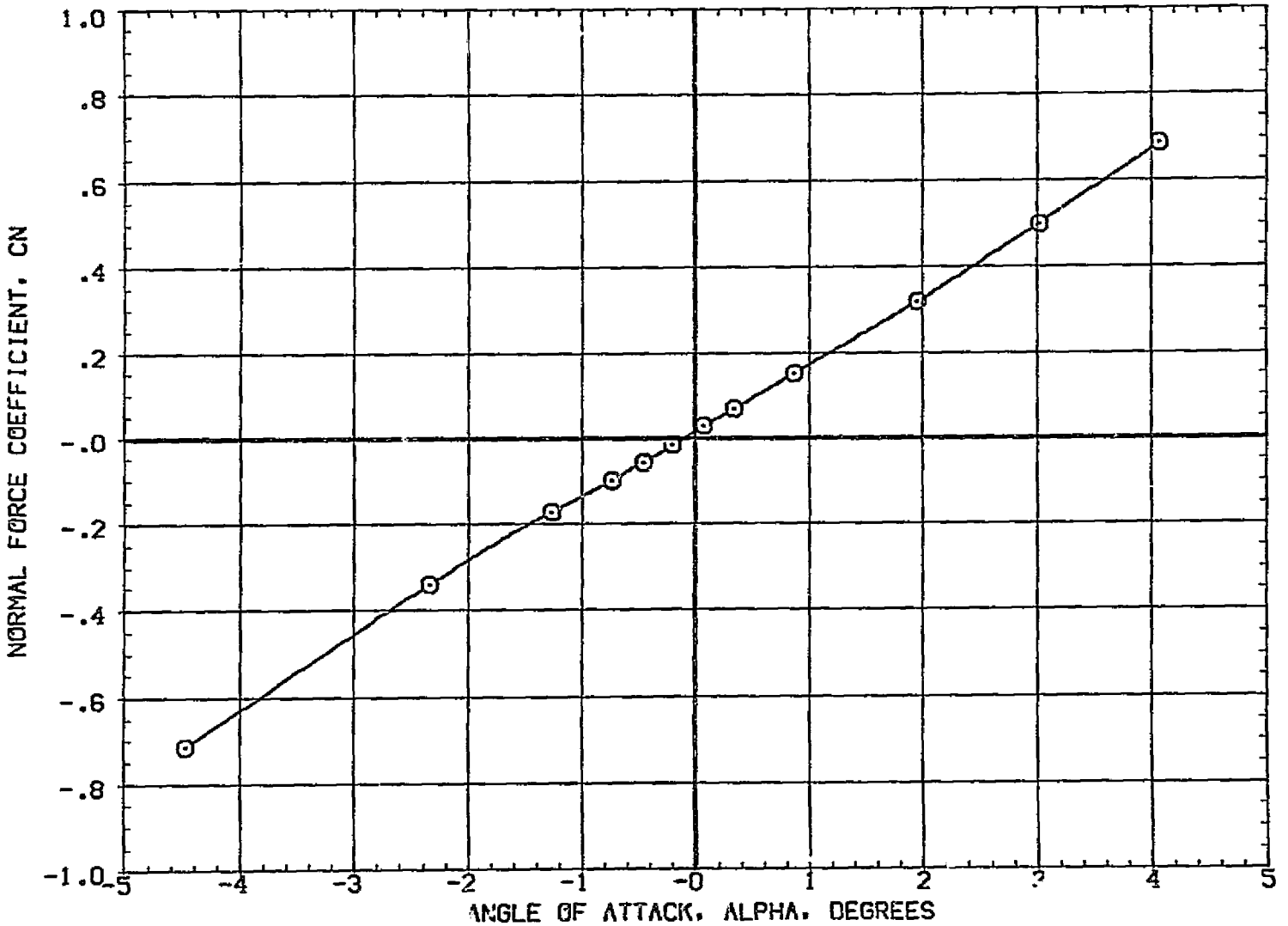


YAW MODULATION EFFECT

CH1MACH = 2.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	EETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	DATA NOT AVAILABLE	.000	.000	40.000	86.000
(BX1009)	DATA NOT AVAILABLE	.000	.000	60.000	86.000
(BX1012)	DATA NOT AVAILABLE	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

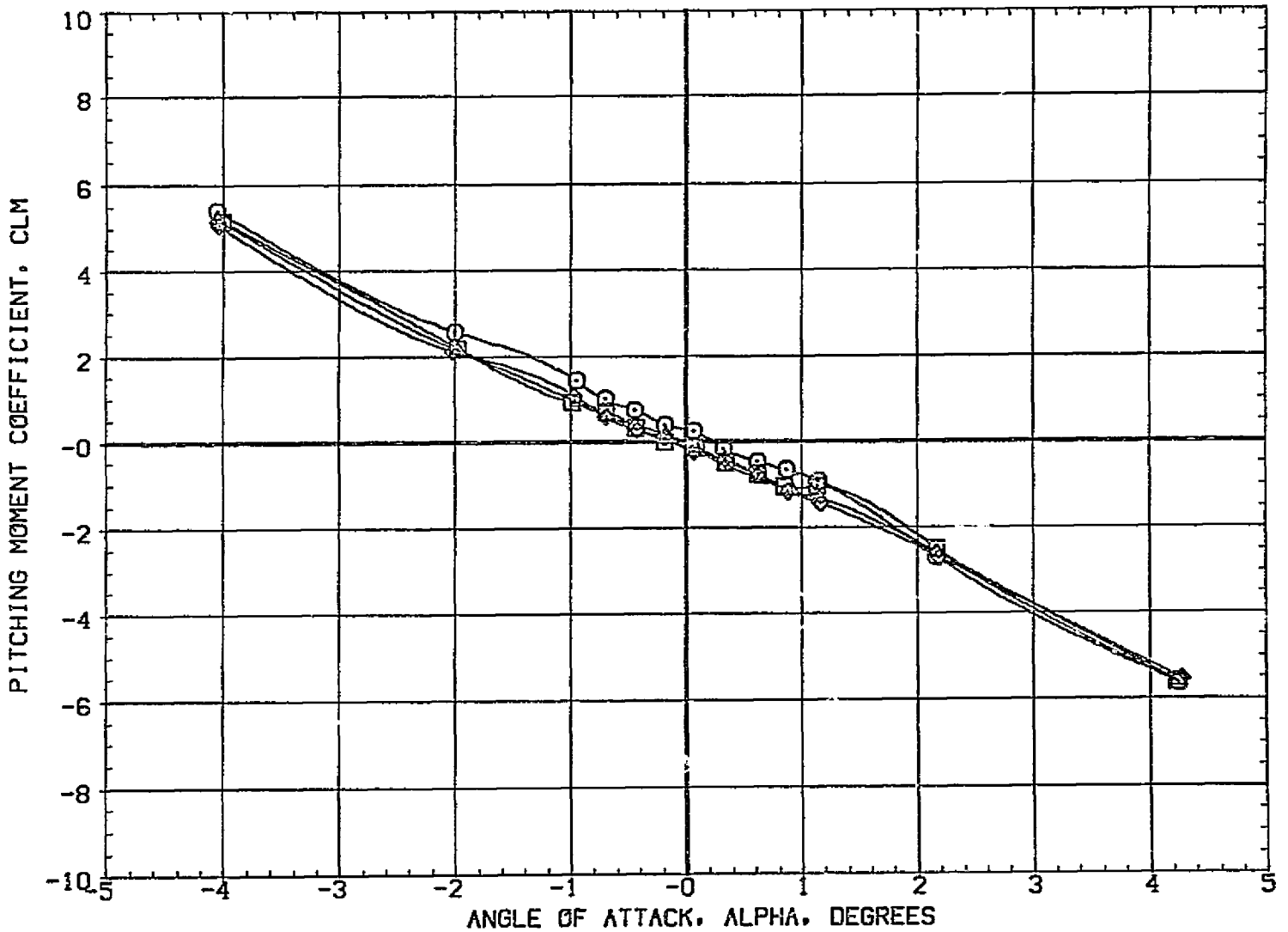


YAW MODULATION EFFECT

(I)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	□	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	◇	OCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	⋈	OCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

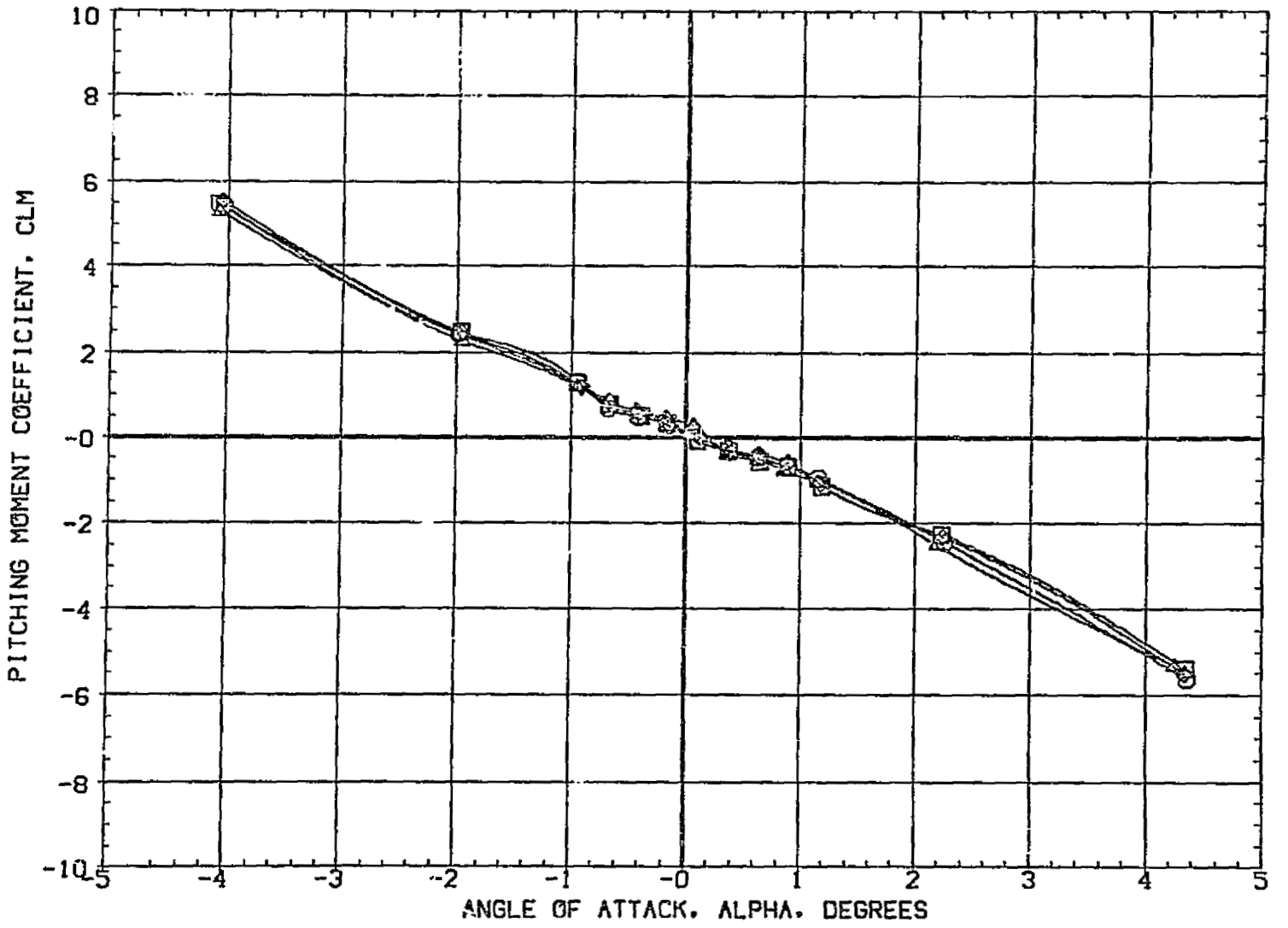


YAW MODULATION EFFECT

(A)MACH = 0.64

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	66.000
(BX1006)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	66.000
(BX1009)	◇	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	66.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	66.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



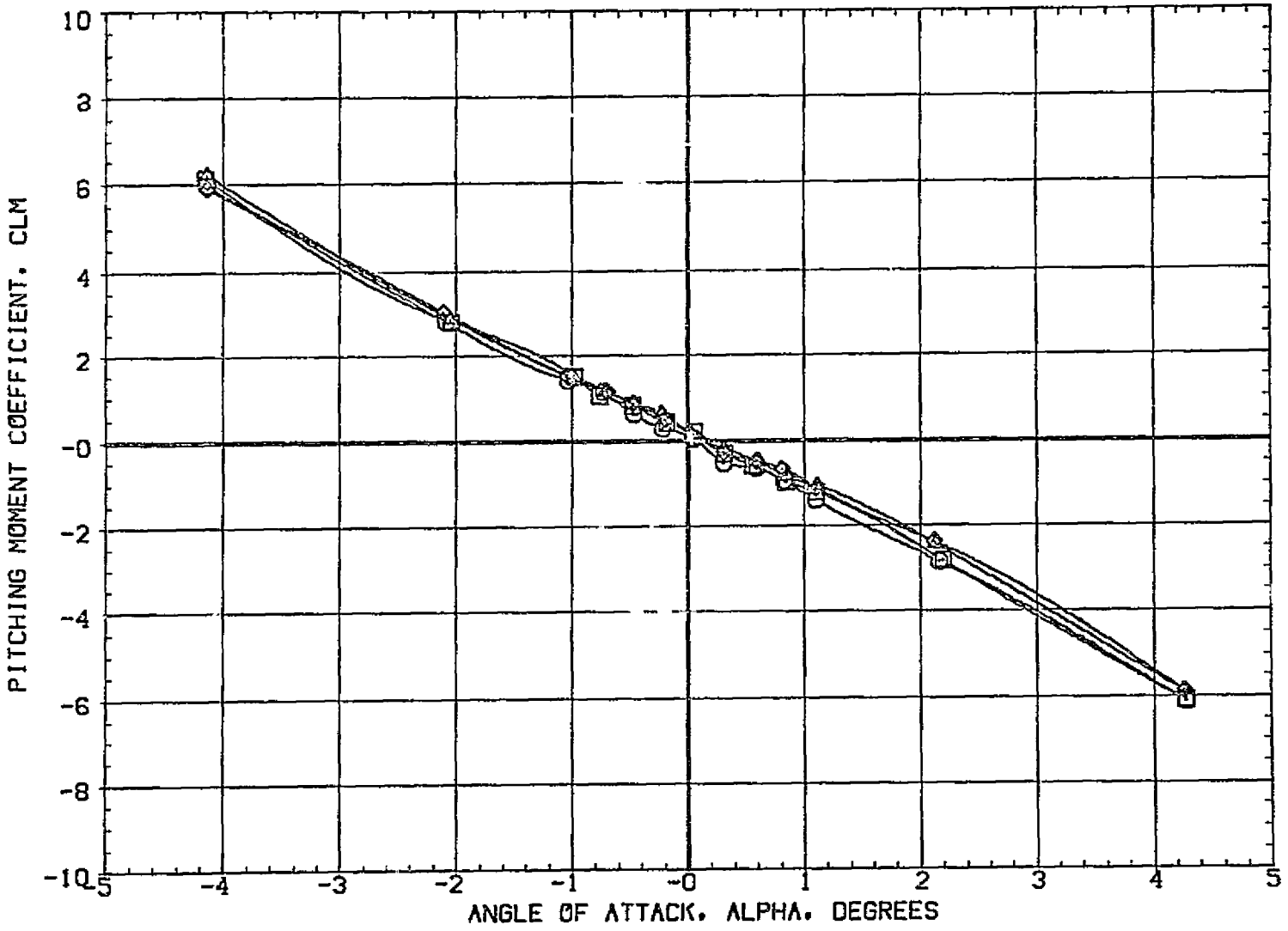
YAW MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	□	OCAT ARC 603/604 [illegible] F4 C
(BX1006)	◇	OCAT ARC 603/604 B2 F4 C
(BX1009)	△	OCAT ARC 603/604 B2 F4 C
(BX1012)		OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POL/PF
.000	.000	.000	86.000
.000	.000	40.000	86.000
.000	.000	60.000	86.000
.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

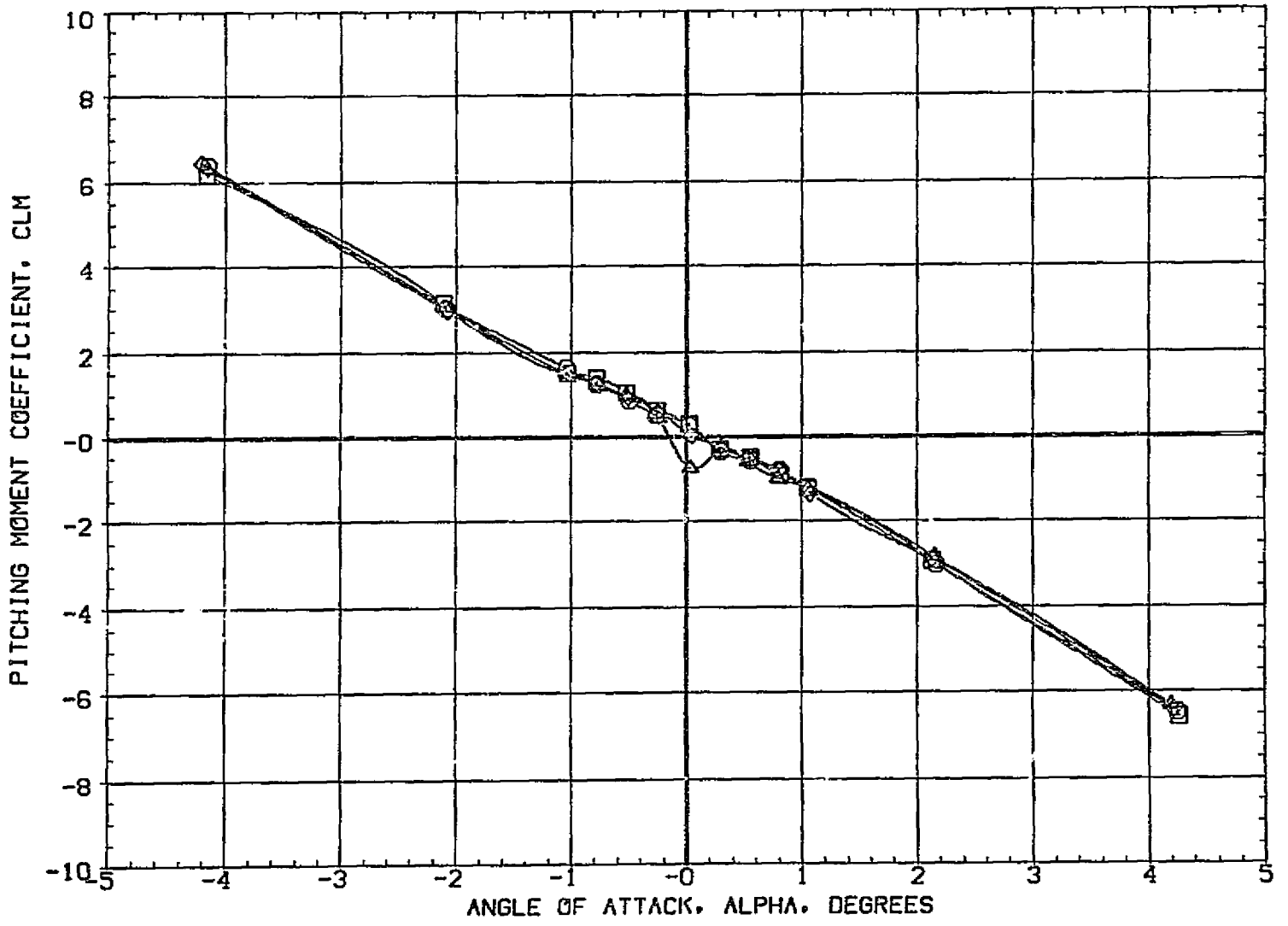


YAW MODULATION EFFECT

(C)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

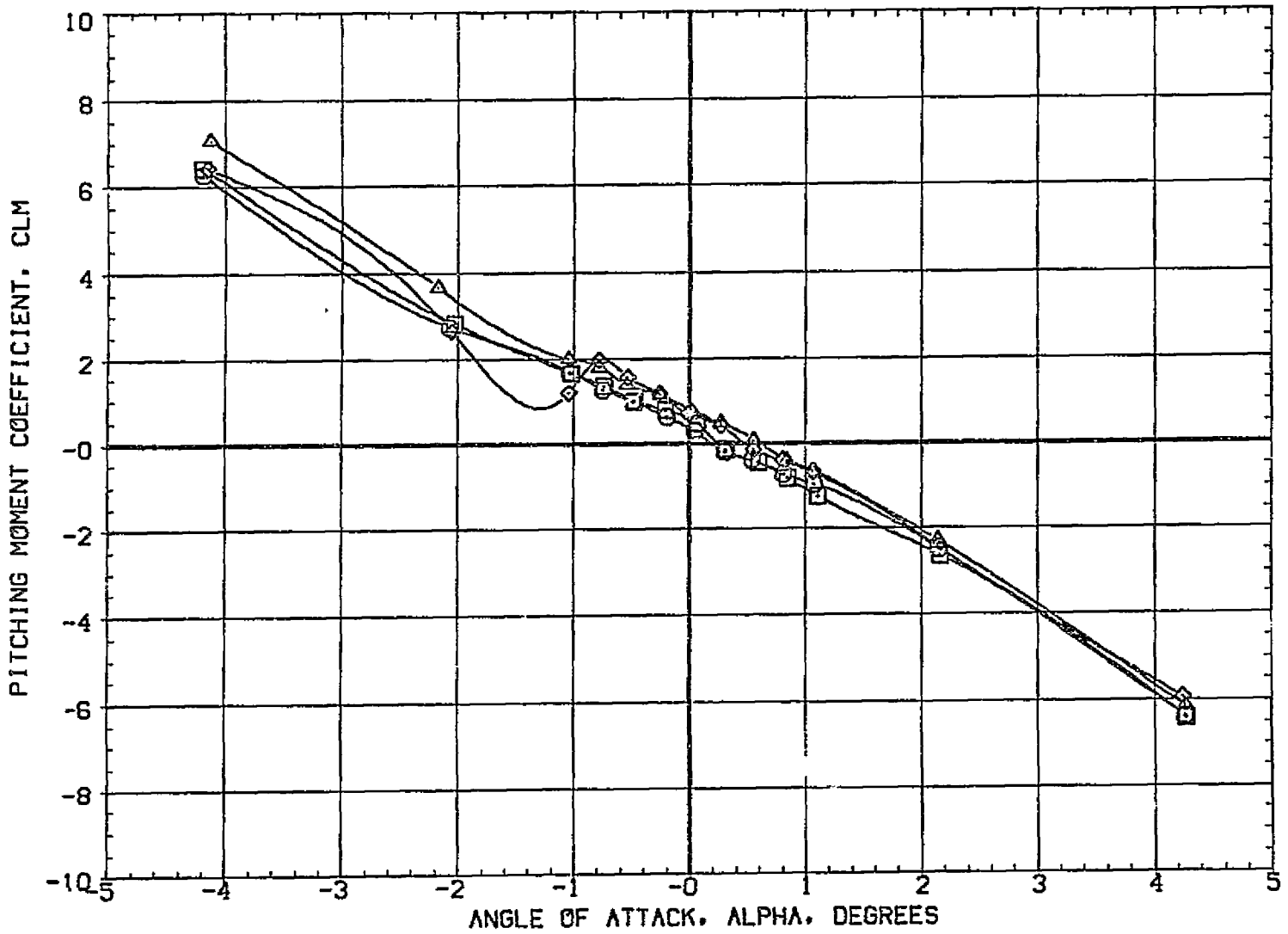


YAW MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	⊠	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	⋈	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

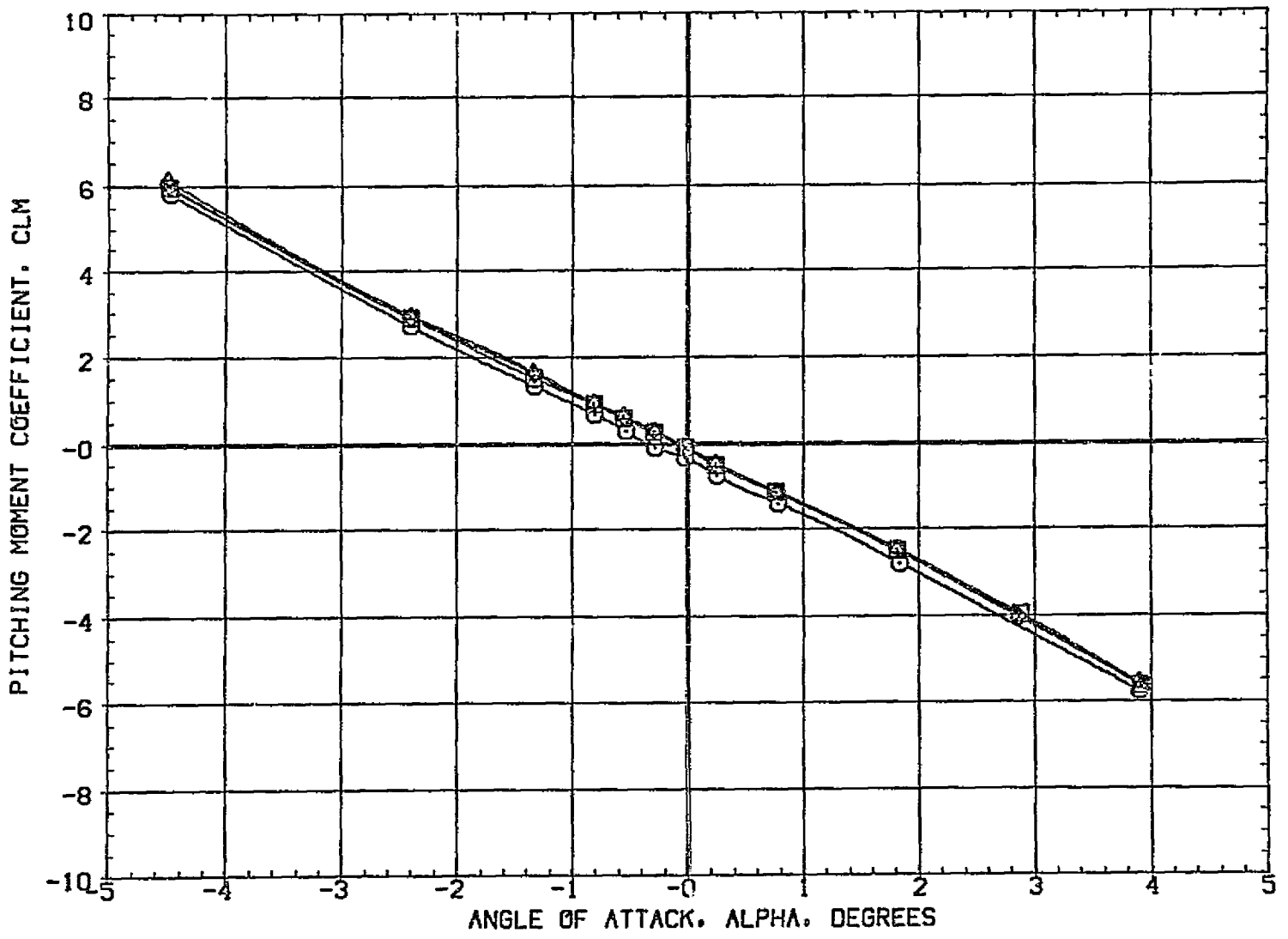


YAW MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



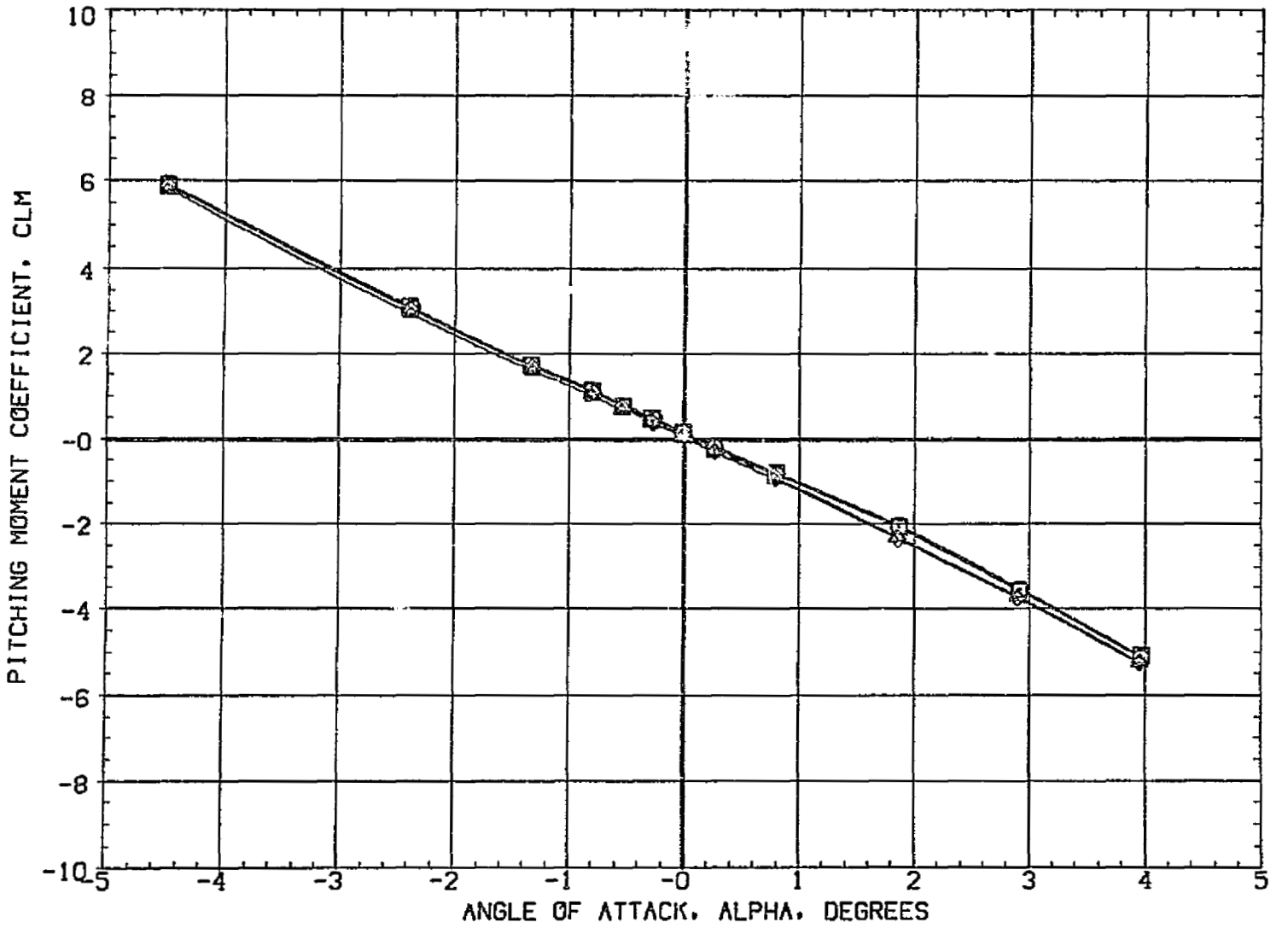
YAW MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POW/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



YAW MODULATION EFFECT

(G)MACH = 1.80

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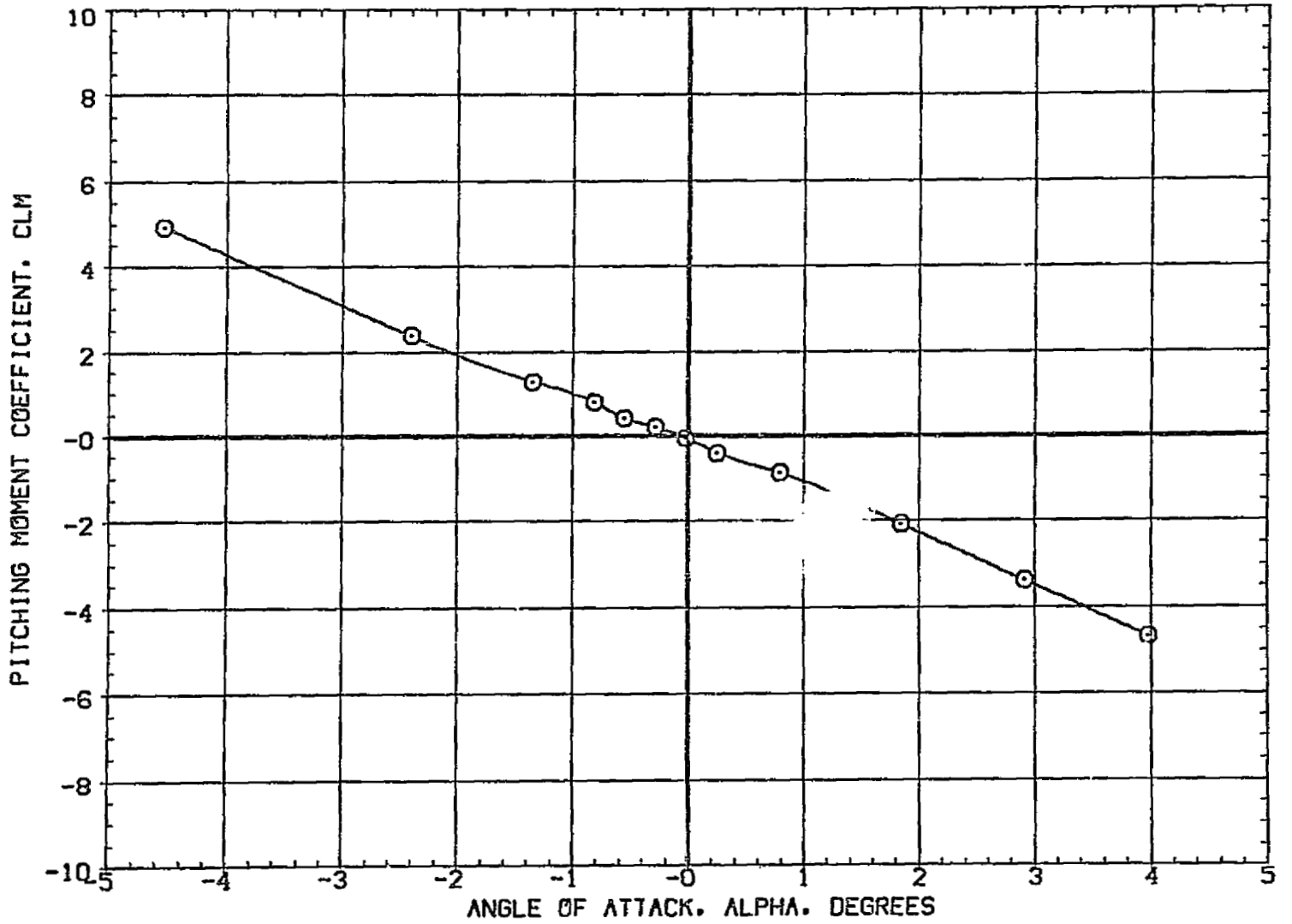
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POW/FF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	DATA NOT AVAILABLE	.000	.000	40.000	86.000
(BX1009)	◇	DATA NOT AVAILABLE	.000	.000	60.000	86.000
(BX1012)	△	DATA NOT AVAILABLE	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1190	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

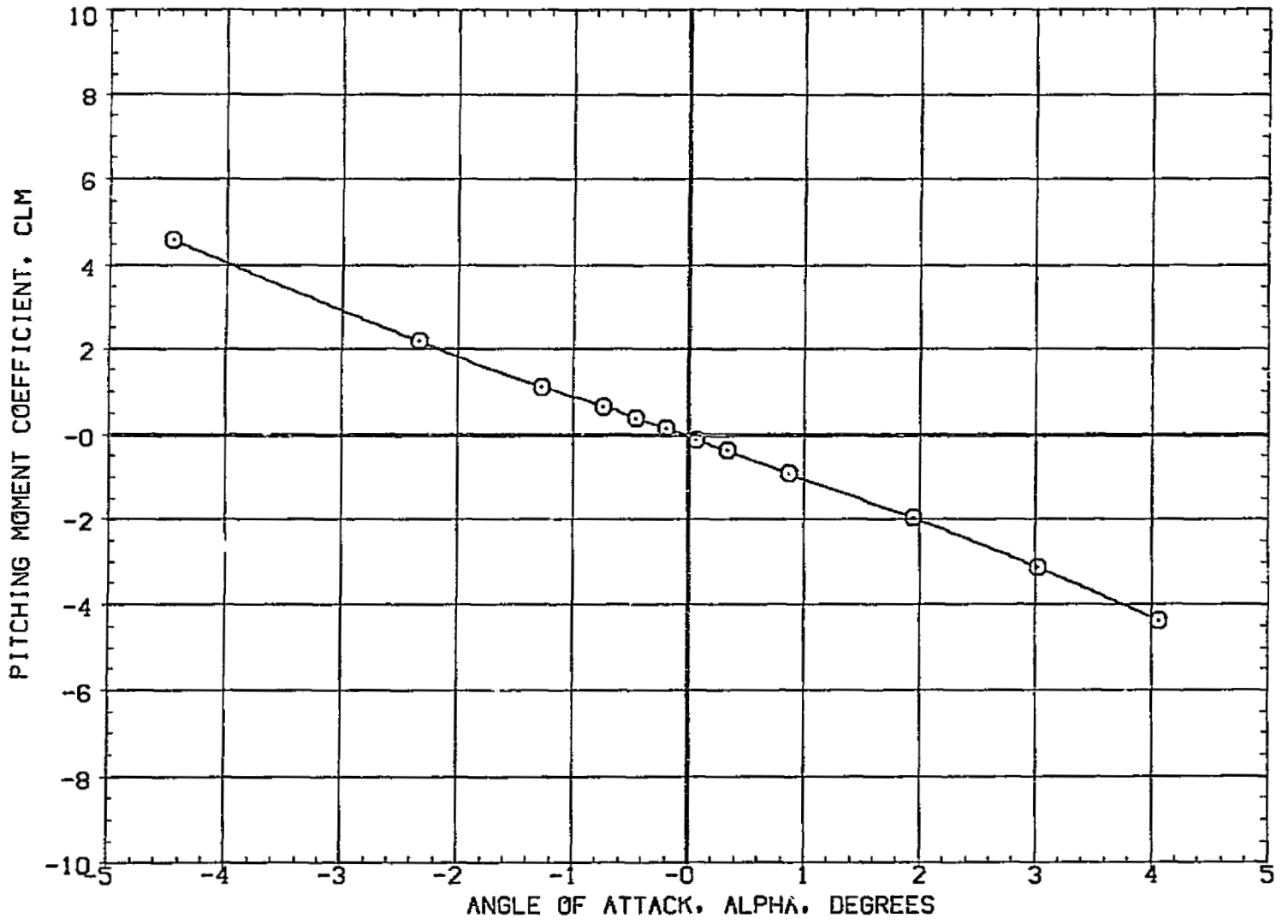


YAW MODULATION EFFECT

(H)MACH = 2.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POL/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	DATA NOT AVAILABLE	.000	.000	40.000	86.000
(BX1009)	⊠	DATA NOT AVAILABLE	.000	.000	60.000	86.000
(BX1012)	△	DATA NOT AVAILABLE	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

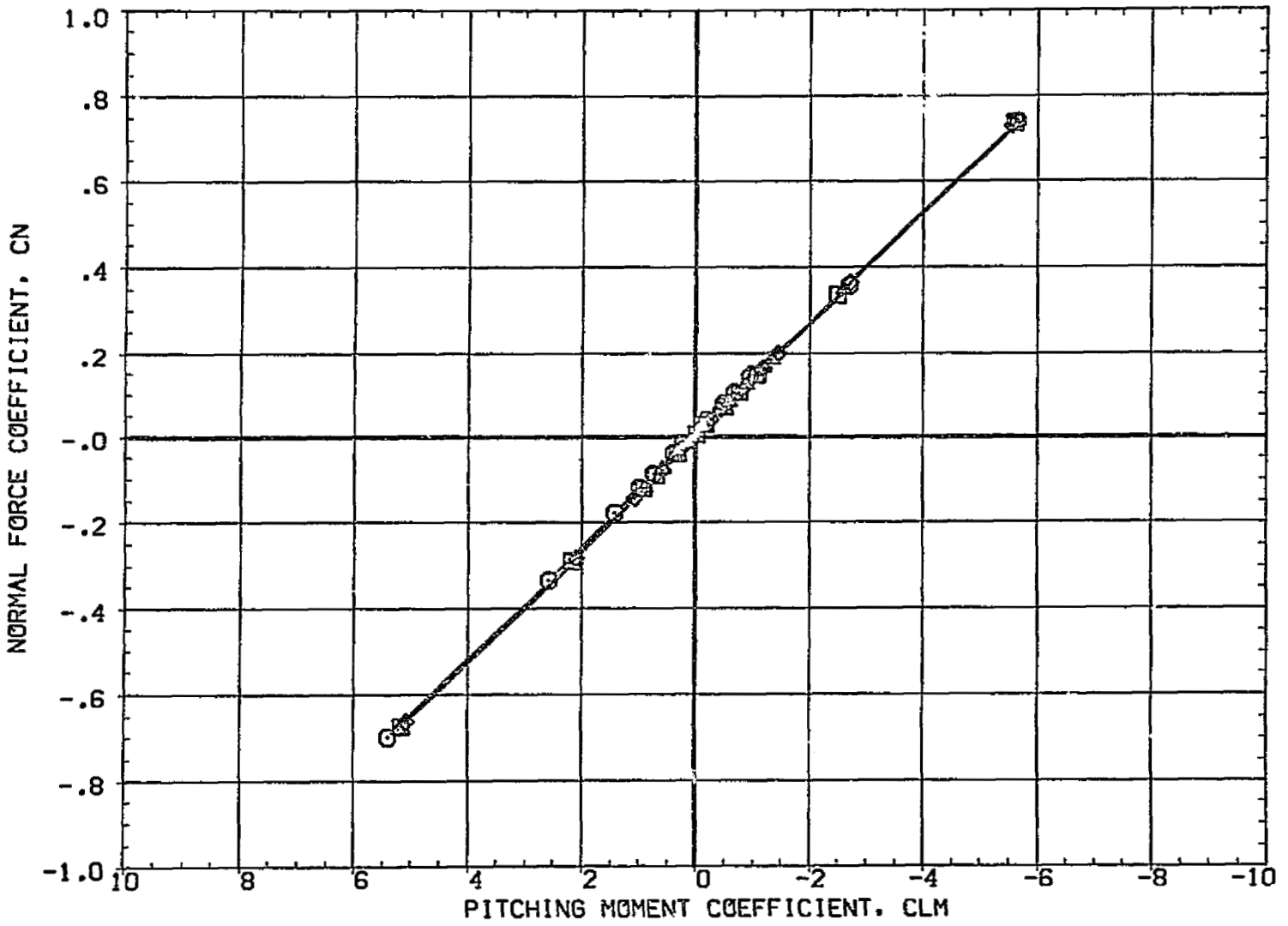


YAW MODULATION EFFECT

(I)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCENT

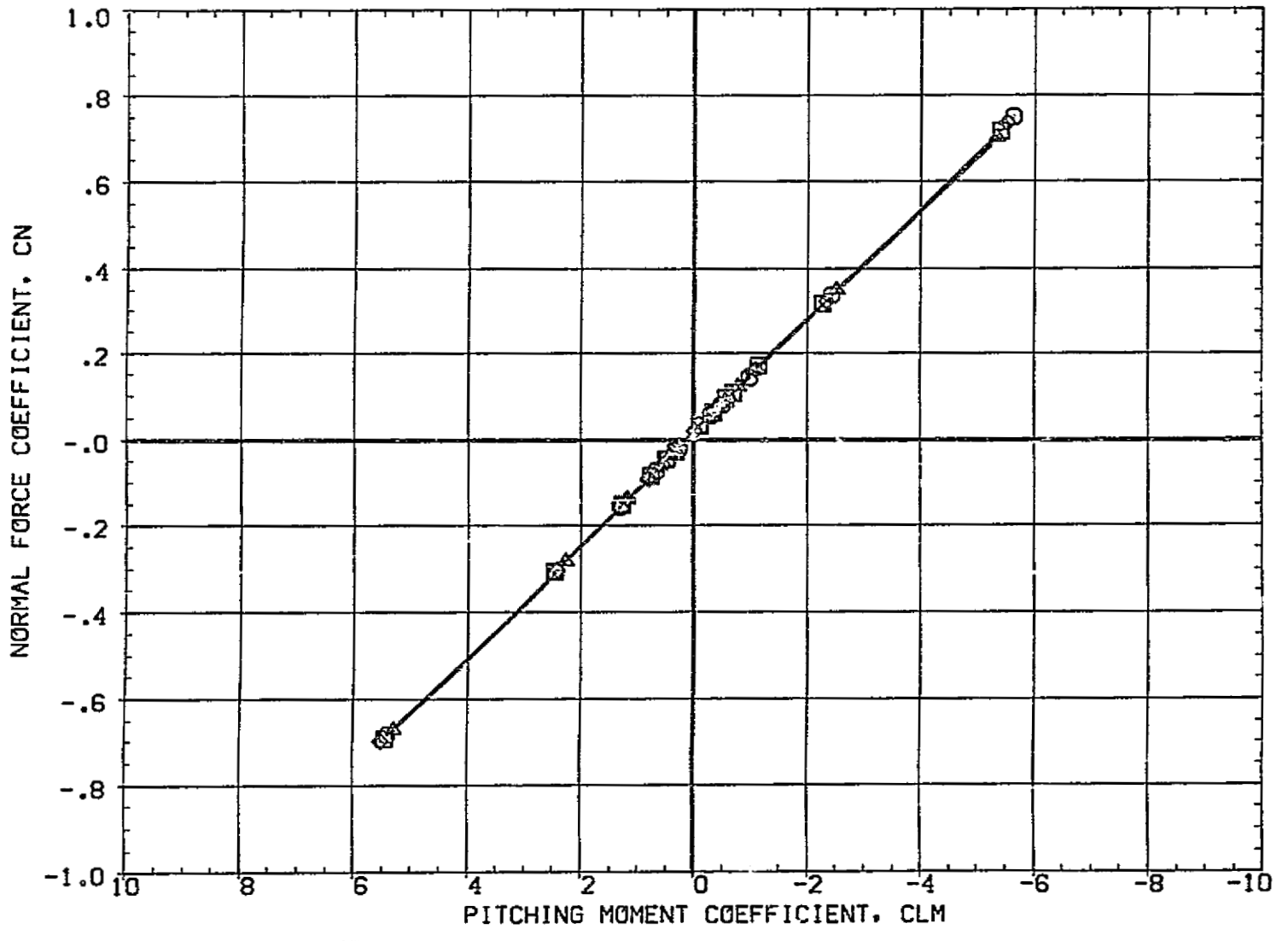


YAW MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	⋈	DCAT ARC 603/604 B2 F4 C	.000	.000	80.000	86.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

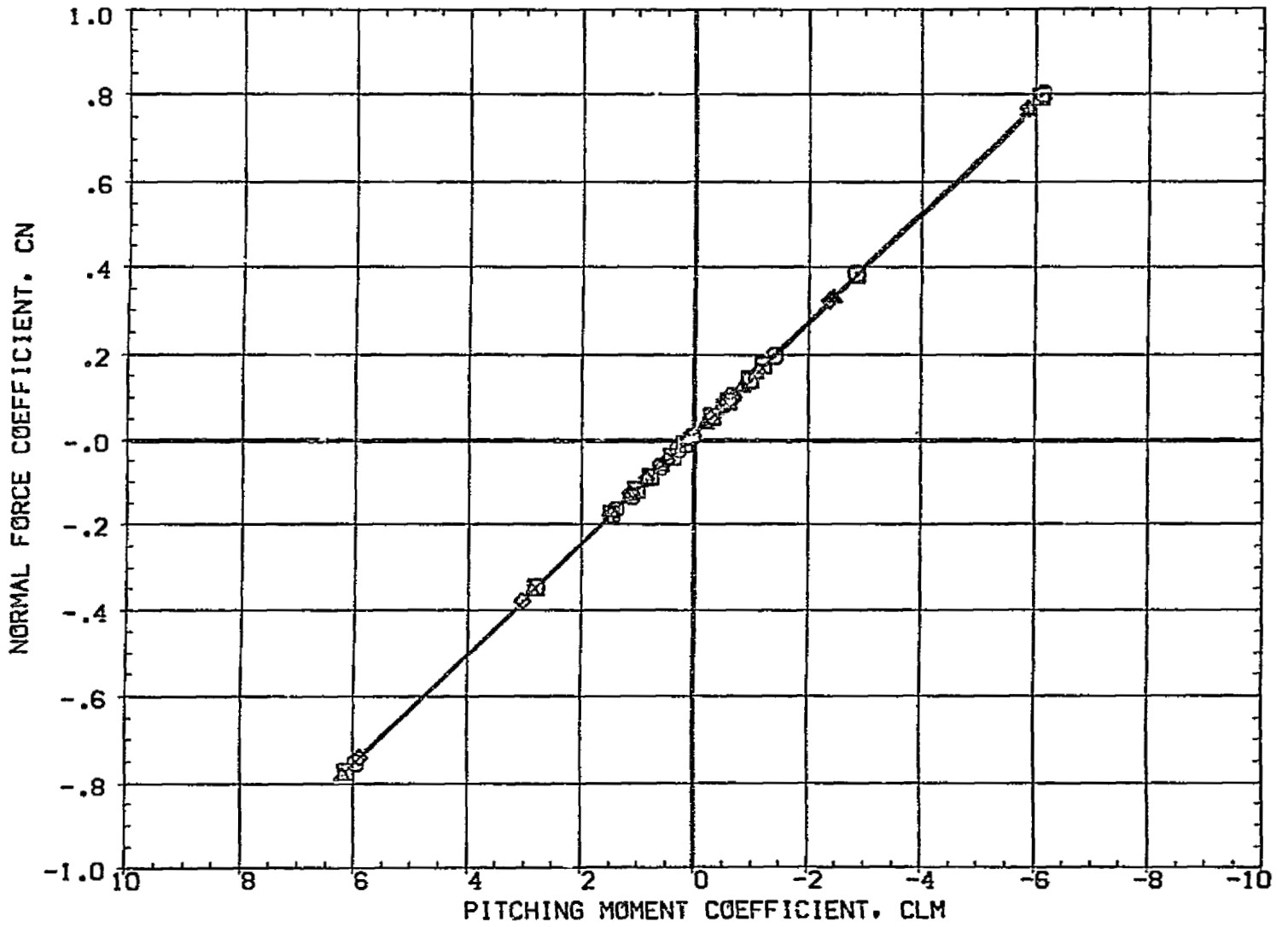
REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



YAW MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	CCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	CCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇	CCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	CCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

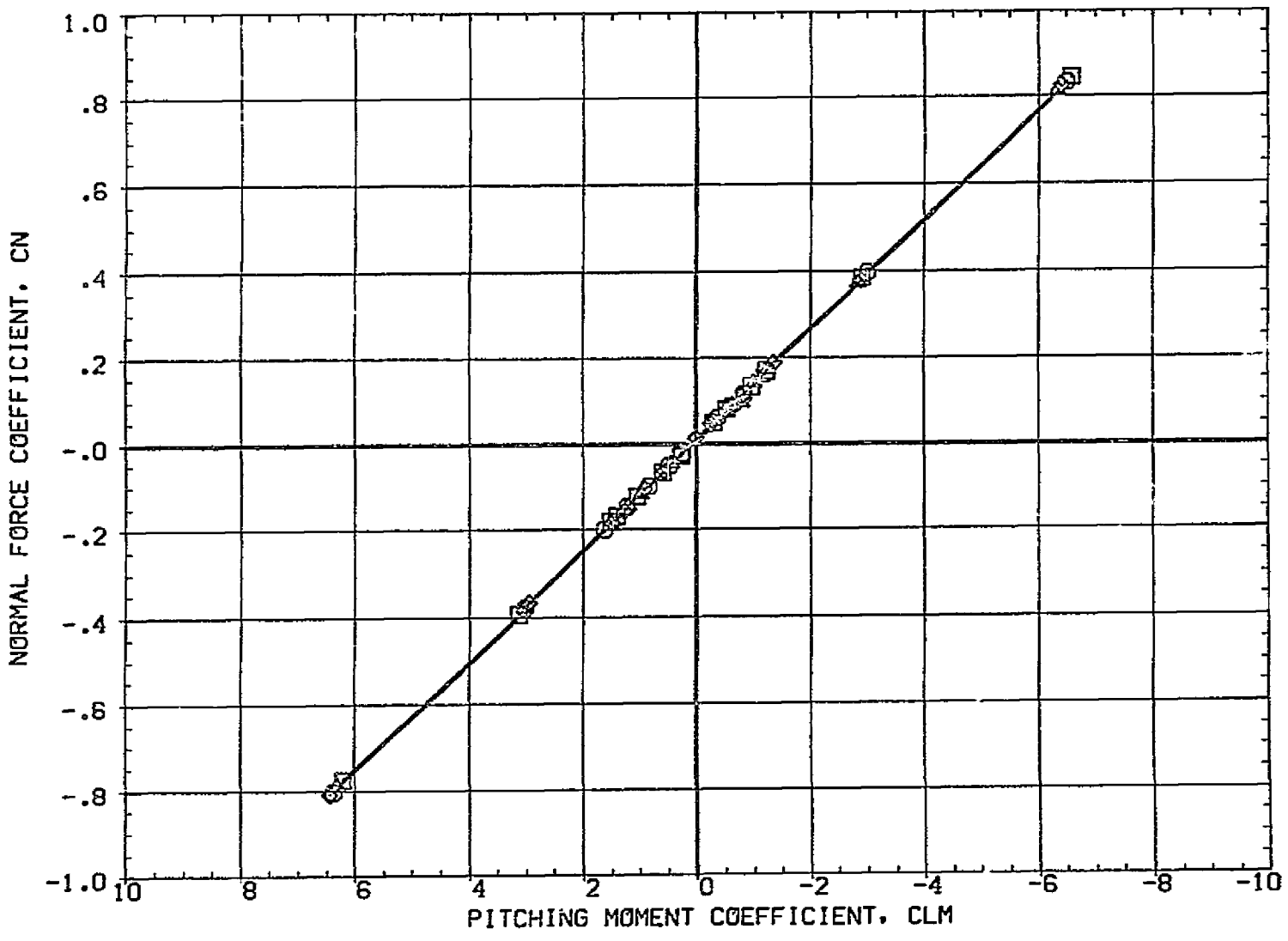


YAW MODULATION EFFECT

(C)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇	DCAT ARC 603/604 B2 F4 C	.000	.000	80.000	86.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



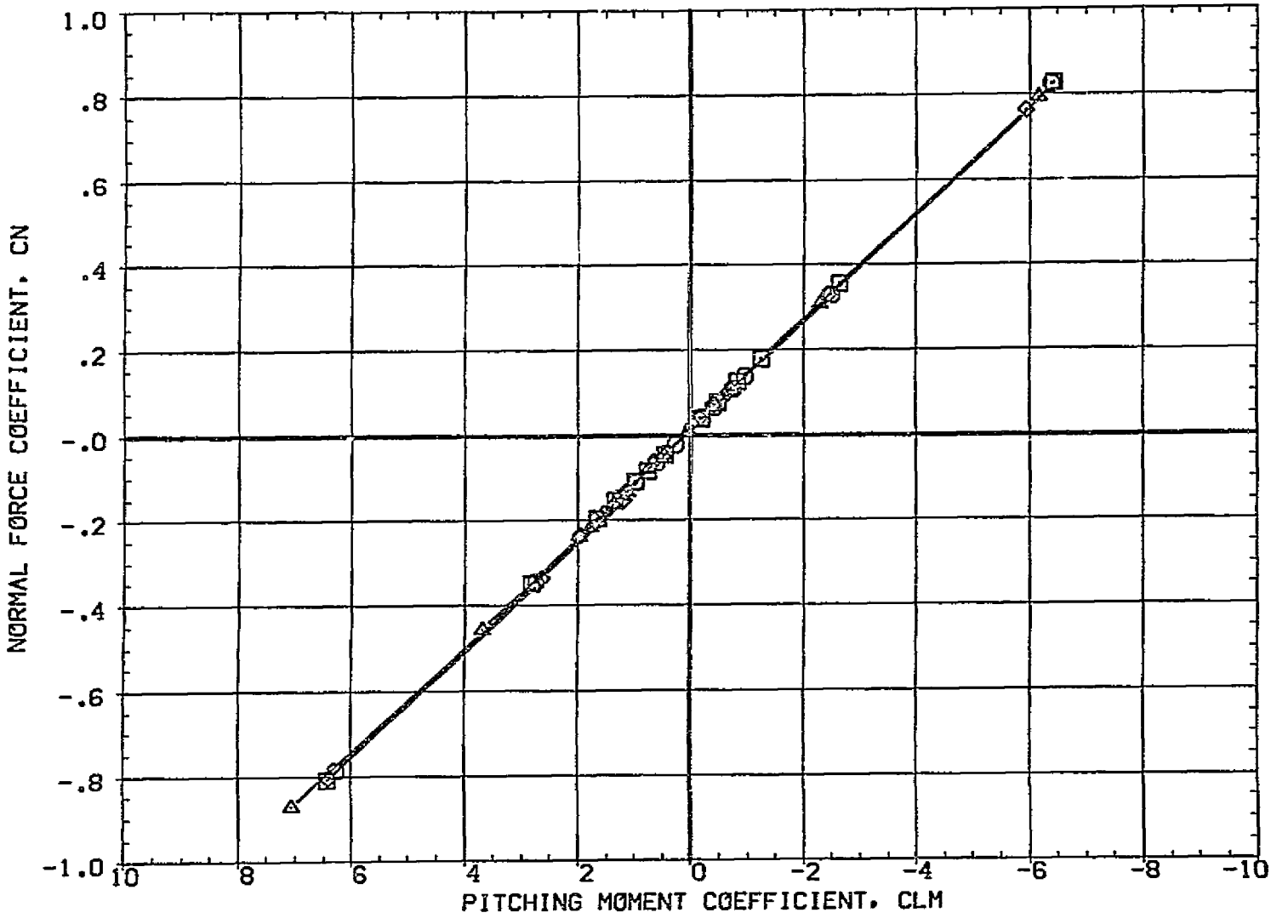
YAW MODULATION EFFECT

(D)MACH = 1.00

AEDC

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	66.000
(BX1006)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	85.000
(BX1009)	◇	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	85.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

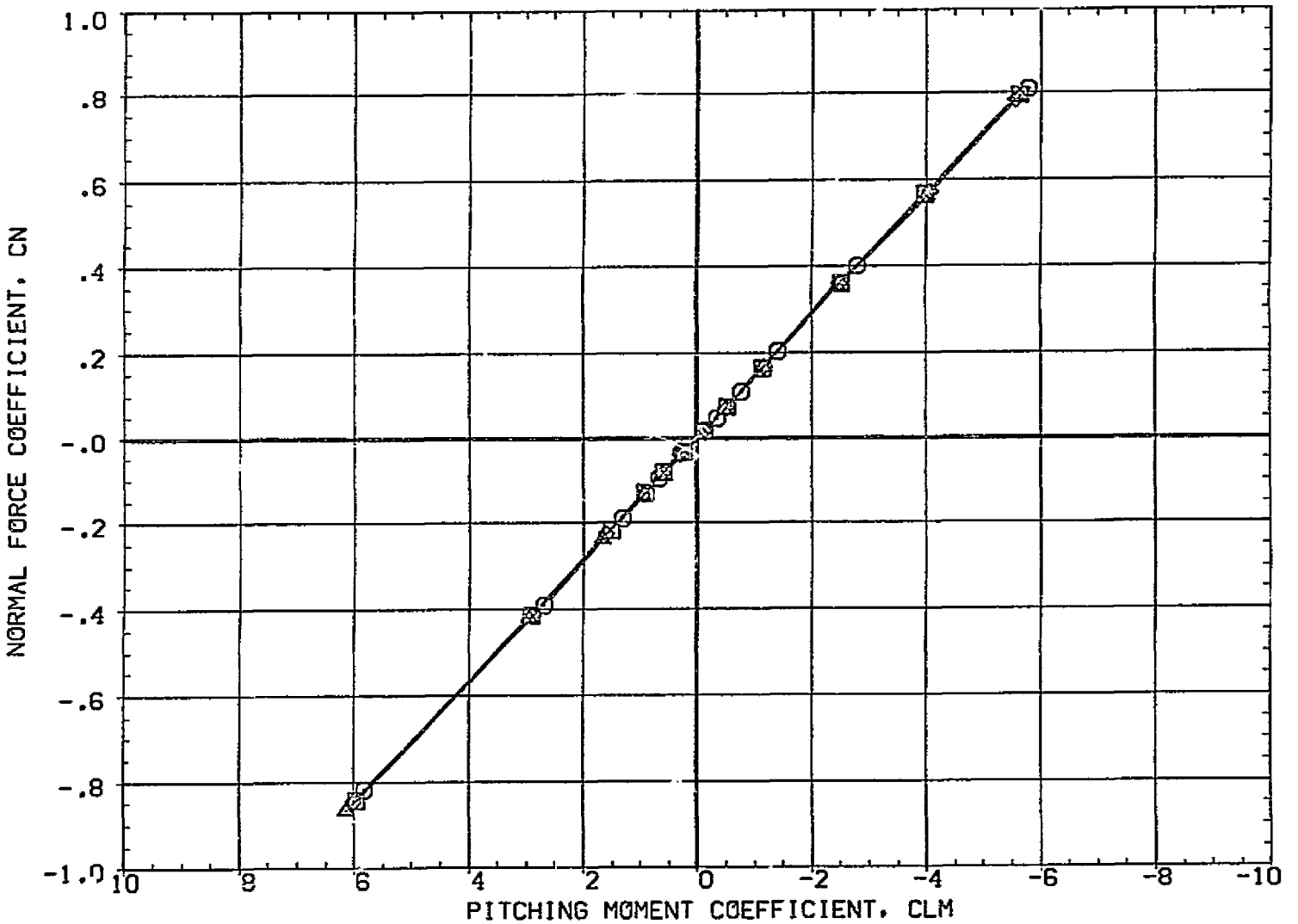


YAW MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)		DCAT ARC 603/604 B2 F4 C	.000	.000	.000	85.000
(BX1006)		DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	85.000
(BX1009)		DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	85.000
(BX1012)		DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

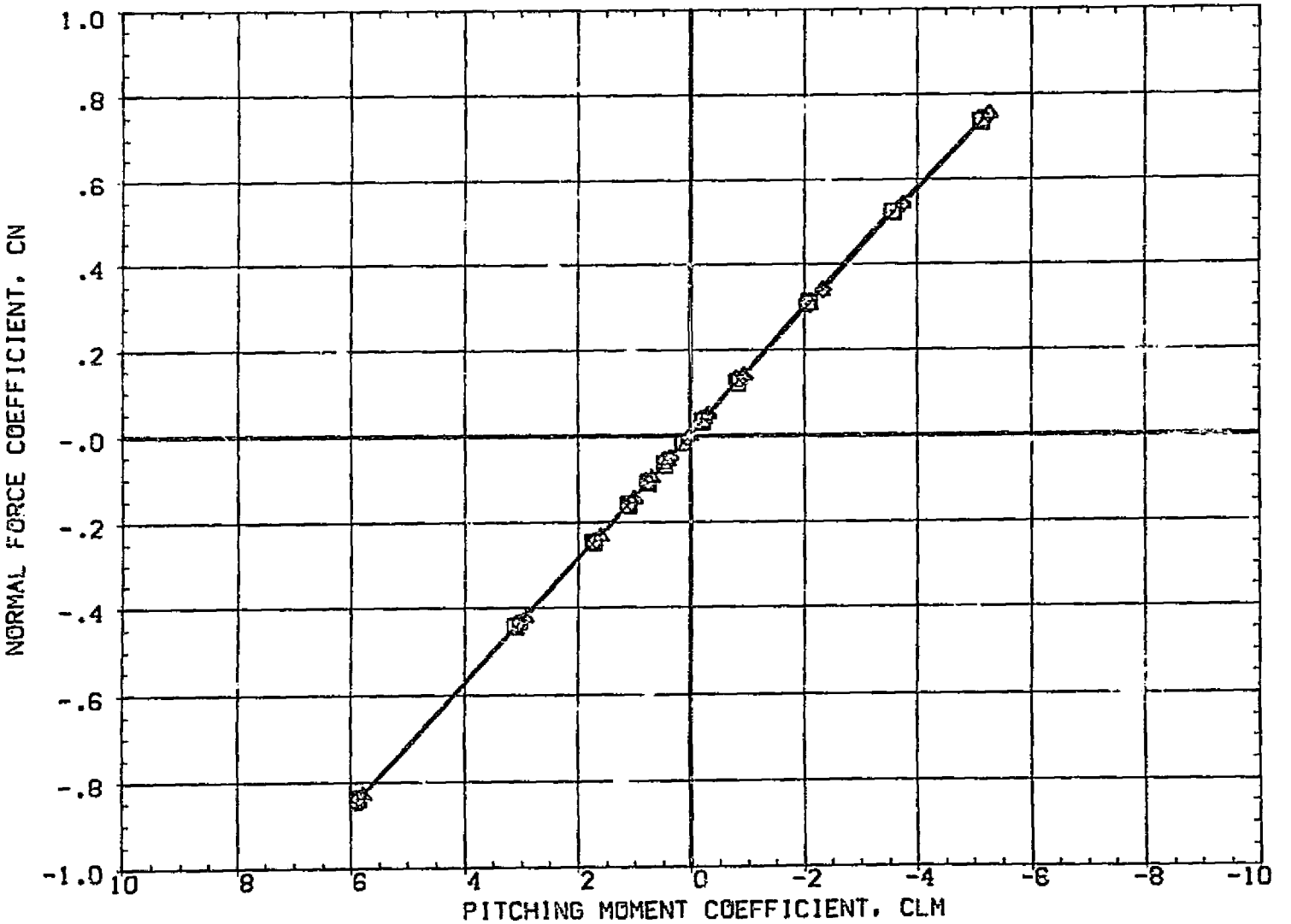


YAW MODULATION EFFECT

(F)MACH = 1.56

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	.-MOD	POL/PF
(BX1002)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	OCAT ARC 603/604 B2 F4 C	.300	.000	40.000	86.000
(BX1009)	⊠	OCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	⋈	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



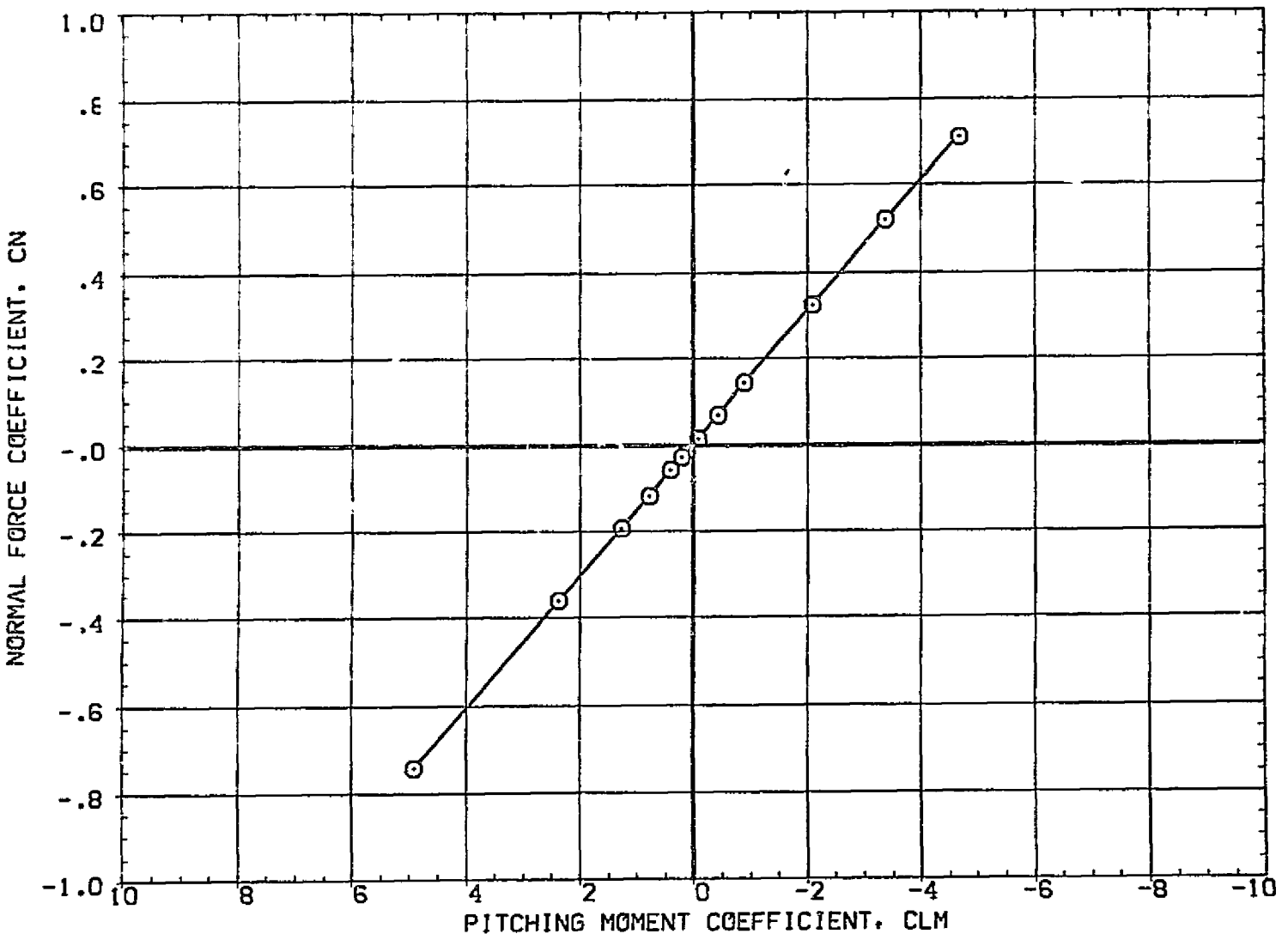
YAW MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(8X1002)	□	OCAT ARC 603/604 B2 F4 C
(8X1005)	◇	DATA NOT AVAILABLE
(8X1009)	⋈	DATA NOT AVAILABLE
(8X1012)	△	DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	86.000
.000	.000	40.000	86.000
.000	.000	60.000	86.000
.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

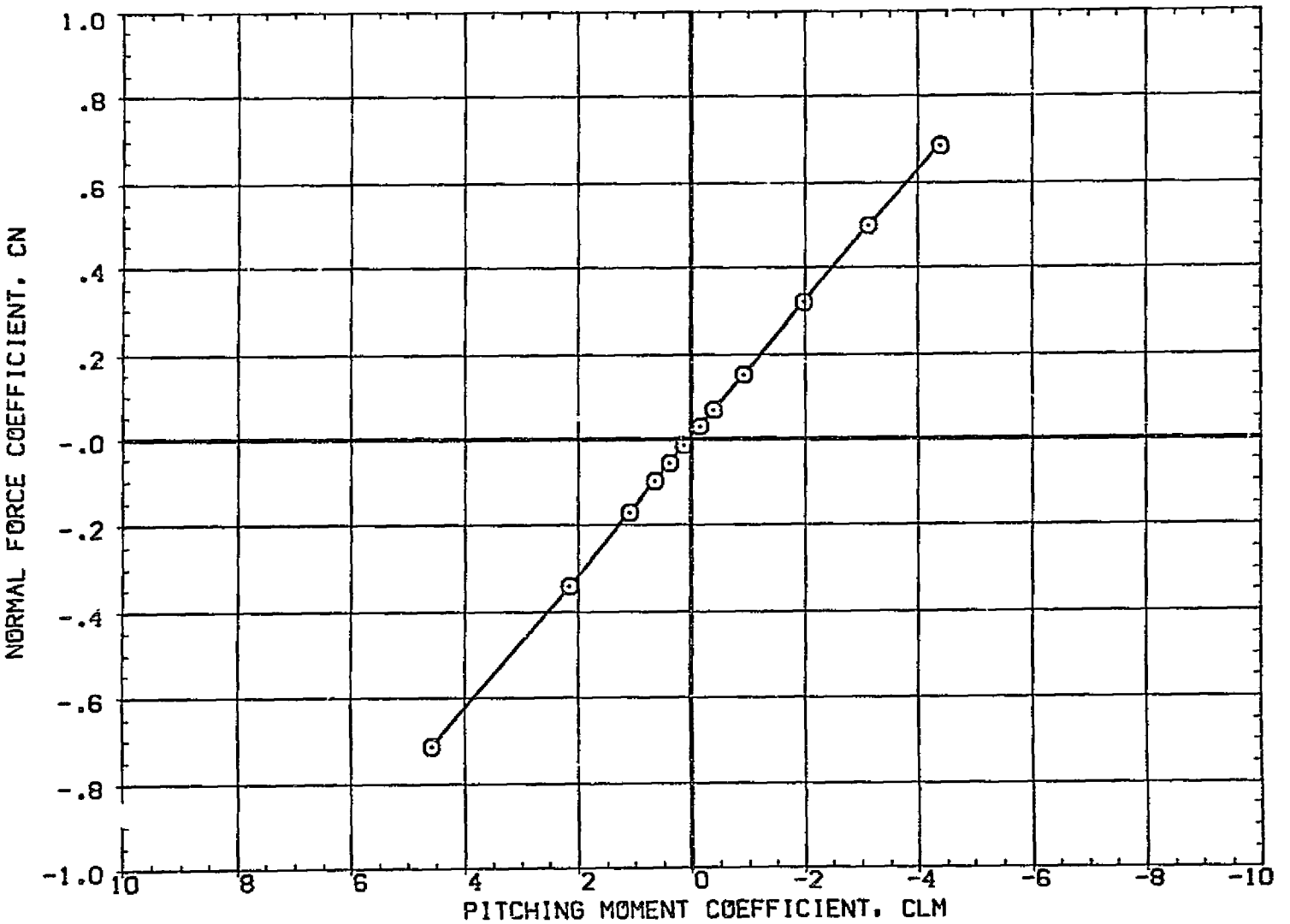


TAW MODULATION EFFECT

(H)MACH = 2.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	DATA NOT AVAILABLE	.000	.000	40.000	86.000
(BX1009)	◇	DATA NOT AVAILABLE	.000	.000	60.000	86.000
(BX1012)	△	DATA NOT AVAILABLE	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



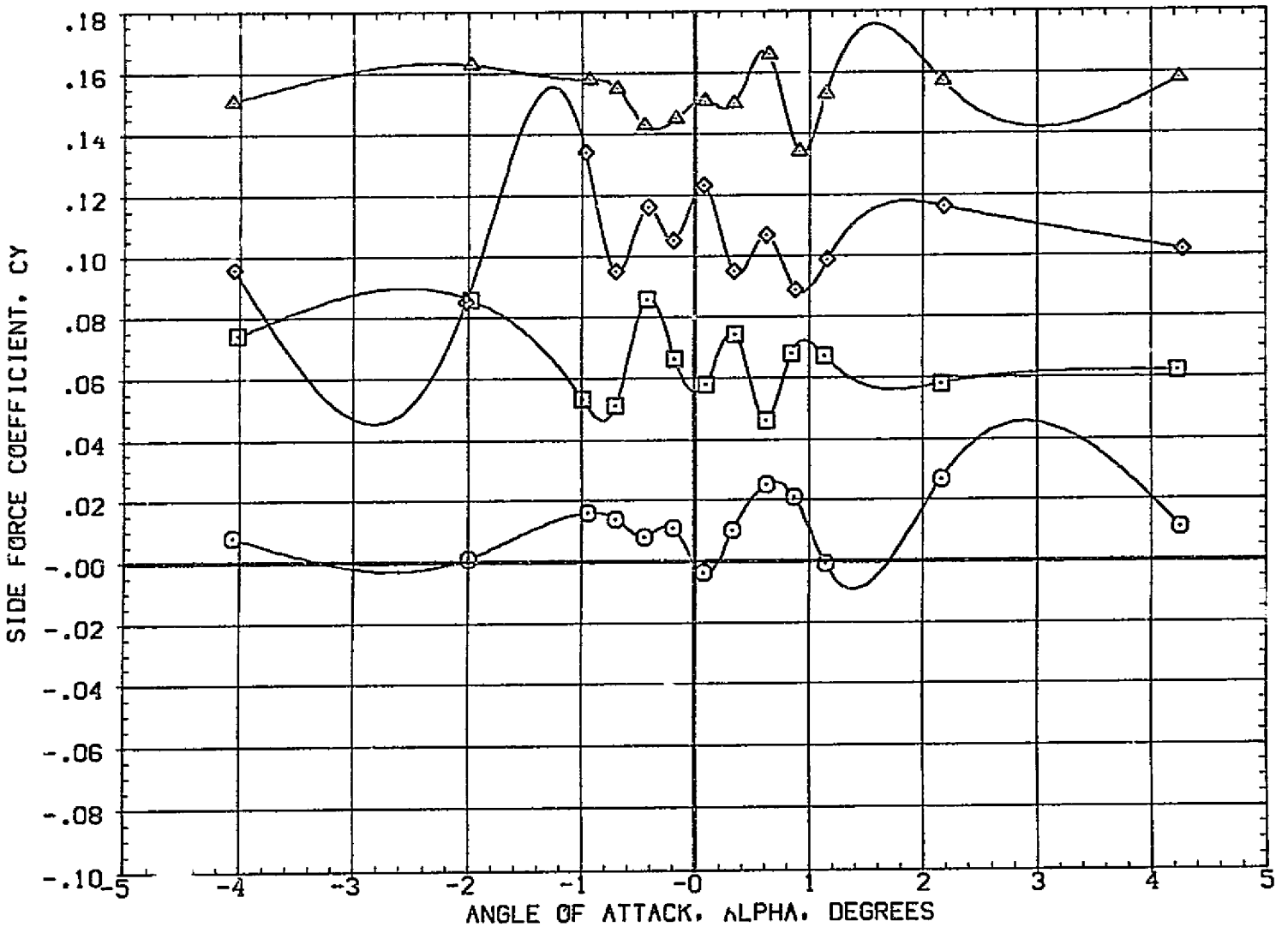
YAW MODULATION EFFECT

(I)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	○	OCAT ARL 603/604 B2 F4 C
(BX1006)	□	OCAT ARC 603/604 B2 F4 C
(BX1009)	◇	OCAT ARC 603/604 B2 F4 C
(BX1012)	△	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF
.000	.000	.000	86.000
.000	.000	40.000	86.000
.000	.000	60.000	86.000
.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

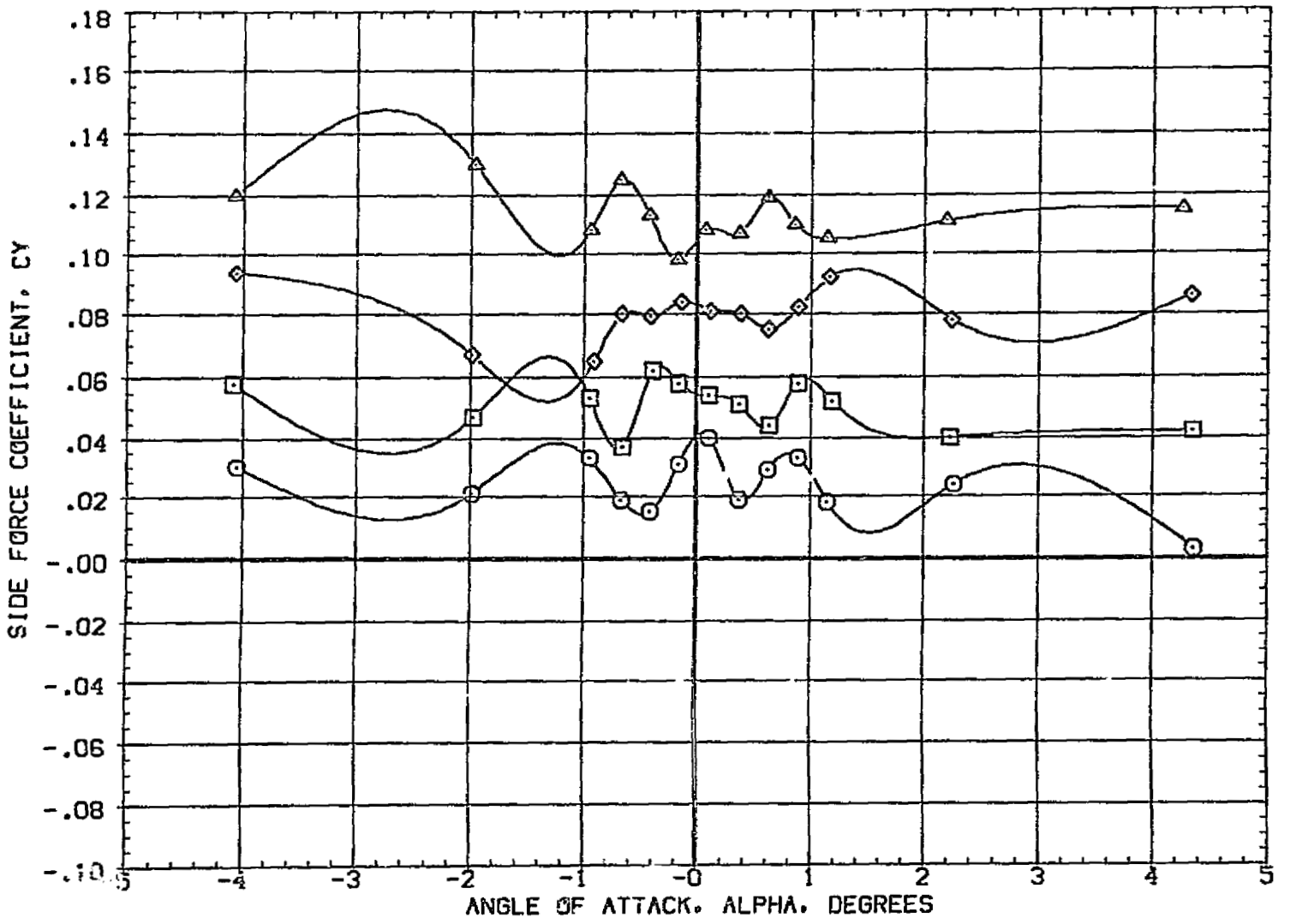


YAW MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	◇	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇□	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



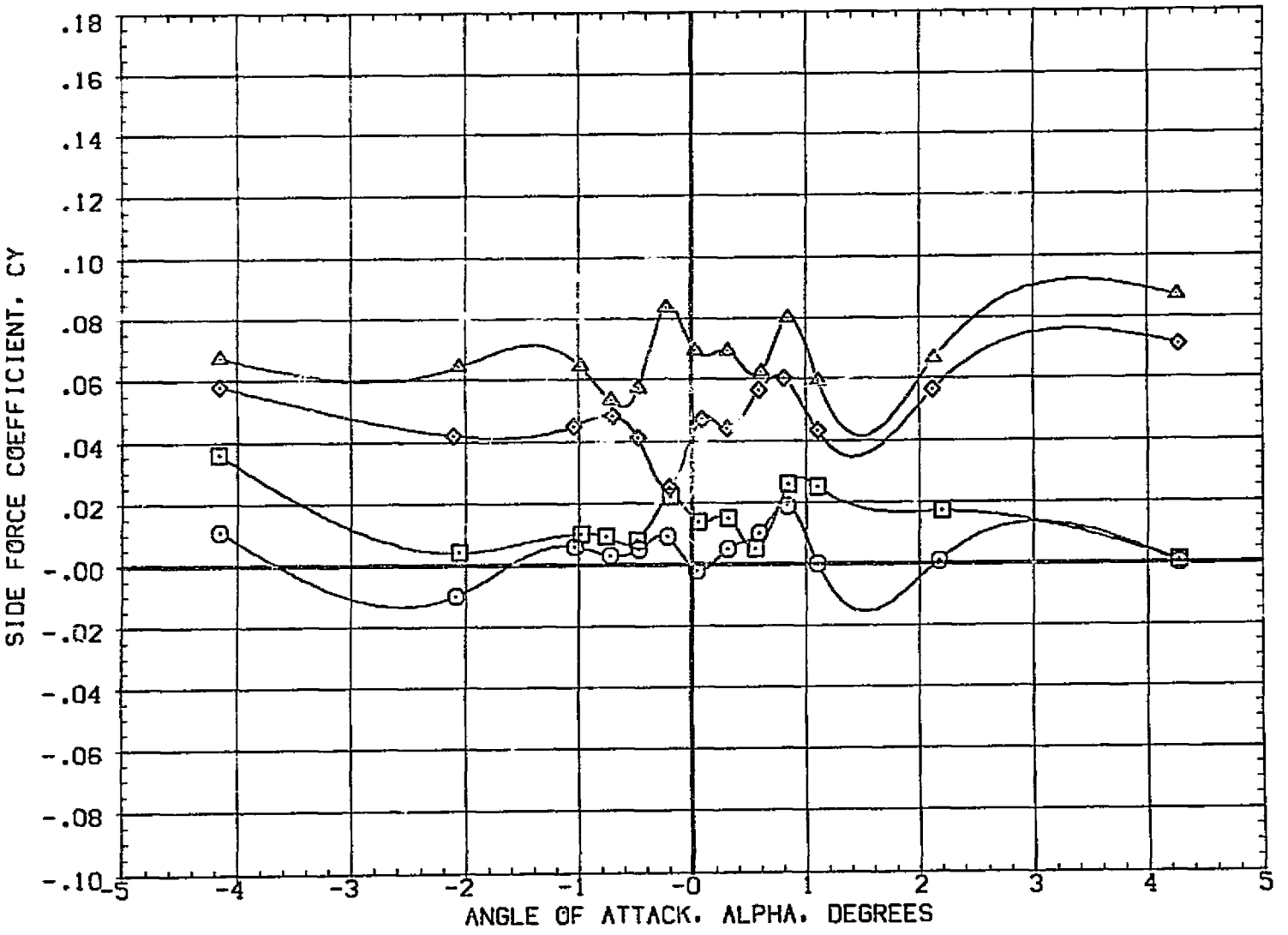
YAW MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1002)	□	OCAT ARC 603/604 B2 F4 C
(BX1006)	□	OCAT ARC 603/604 B2 F4 C
(BX1009)	◇	OCAT ARC 603/604 B2 F4 C
(BX1012)	△	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	86.000
.000	.000	40.000	86.000
.000	.000	60.000	86.000
.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

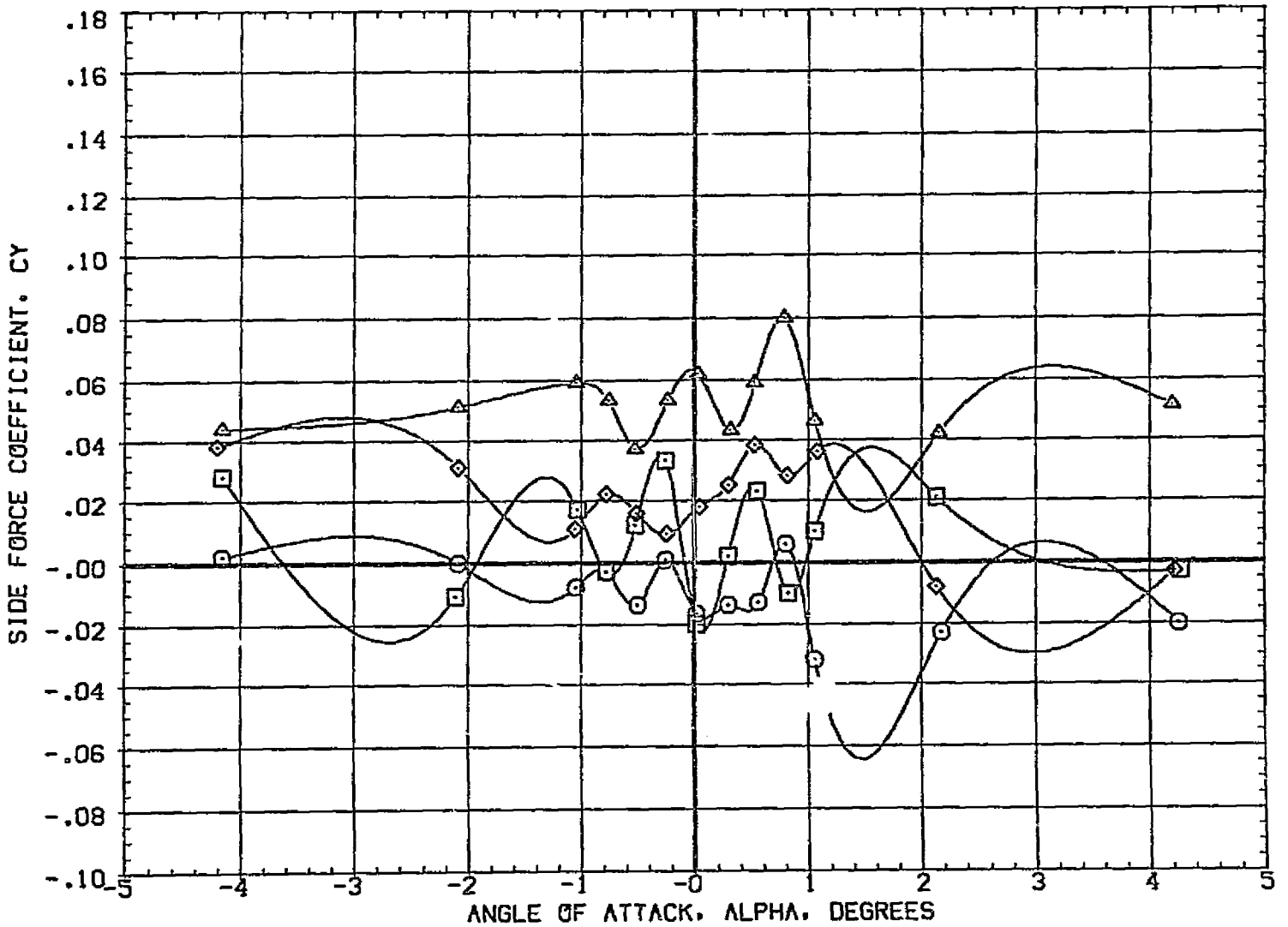


YAW MODULATION EFFECT

(C)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POW/PF
(BX1002)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	OCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇	OCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



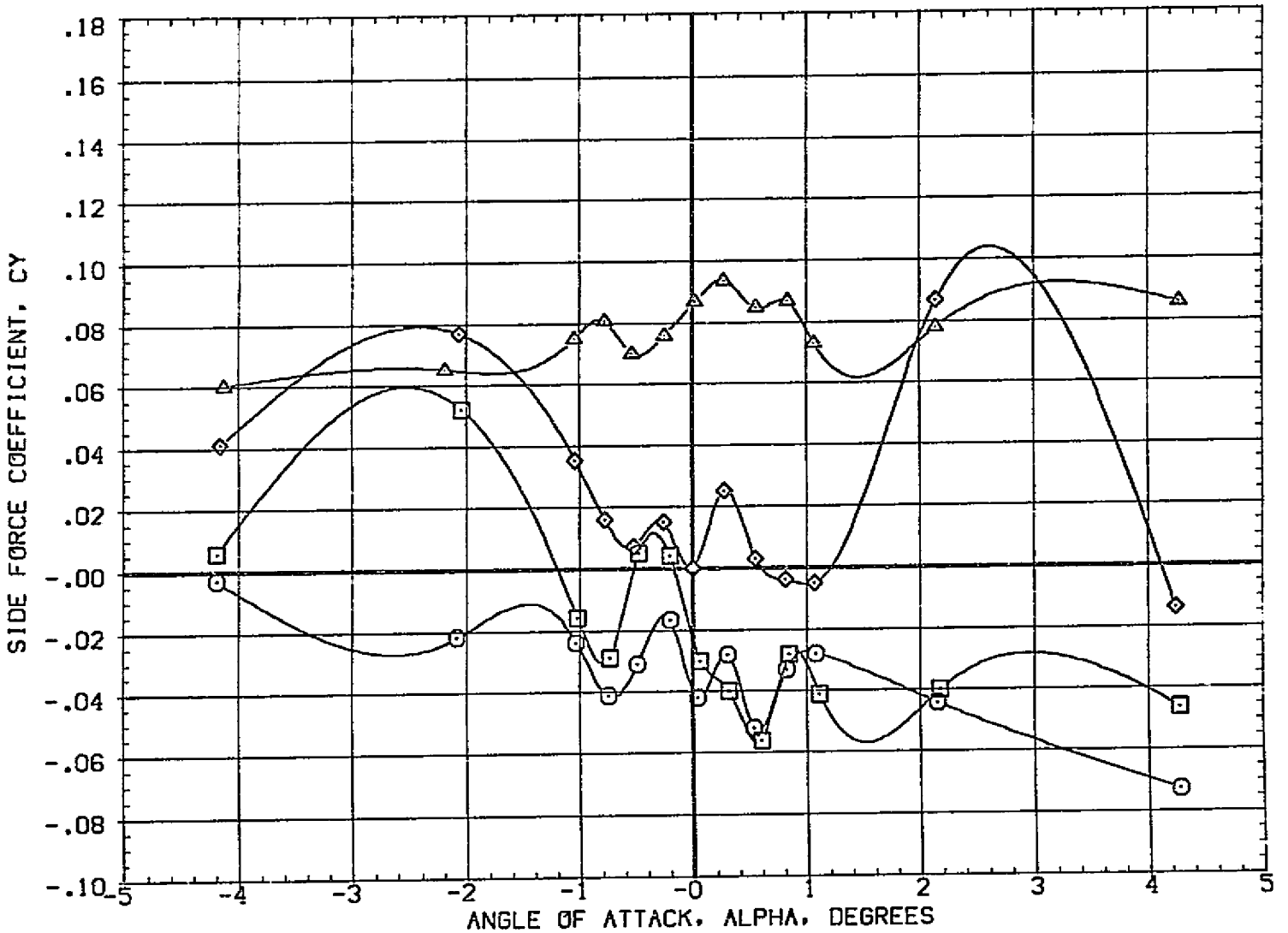
YAW MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(8X1002)	□	DCAT ARC 603/604 82 F4 C
(8X1006)	◇	DCAT ARC 603/604 82 F4 C
(8X1009)	◇	DCAT ARC 603/604 82 F4 C
(8X1012)	△	DCAT ARC 603/604 82 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	86.000
.000	.000	40.000	86.000
.000	.000	60.000	86.000
.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

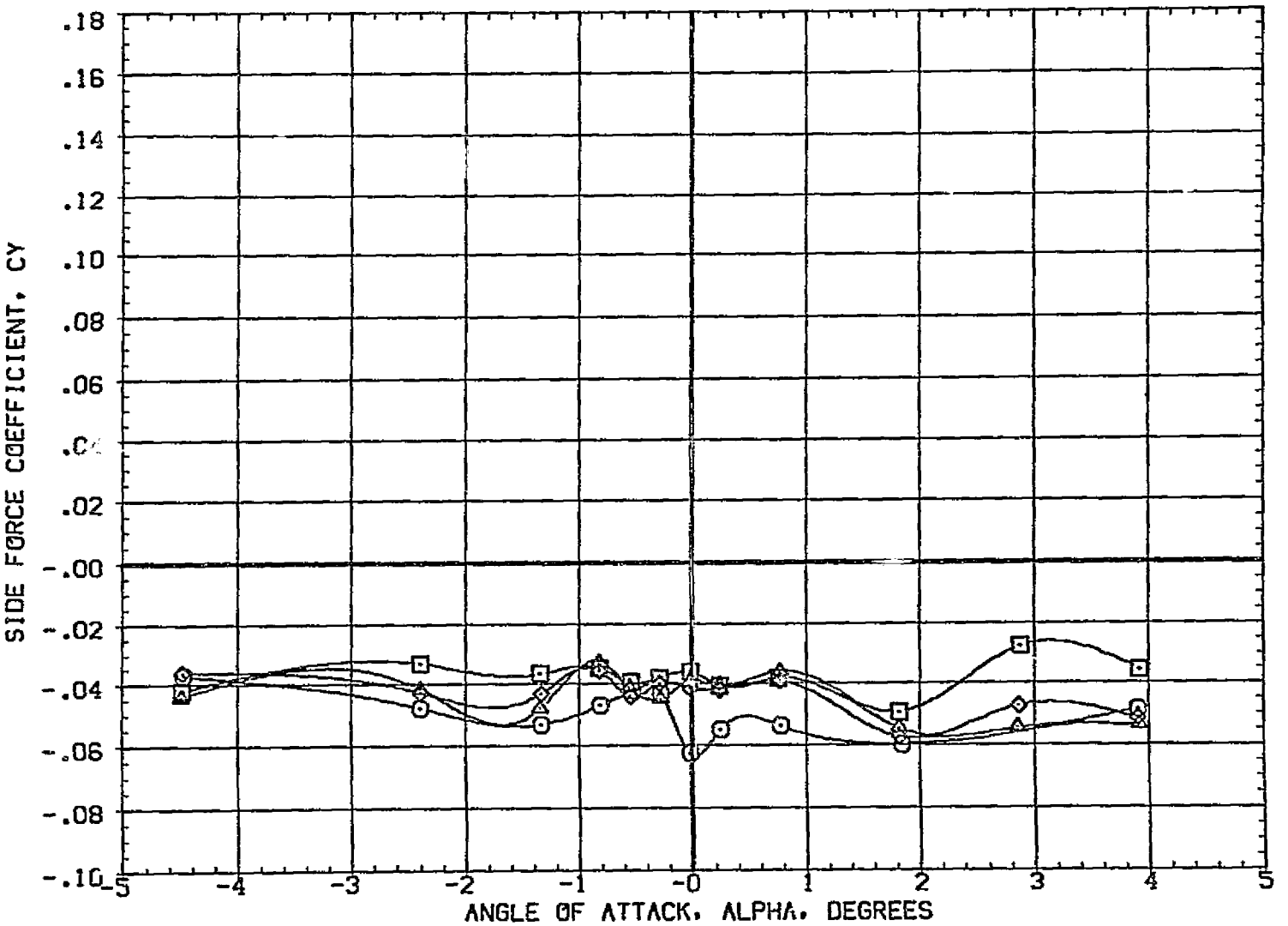


YAW MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	DCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇	DCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

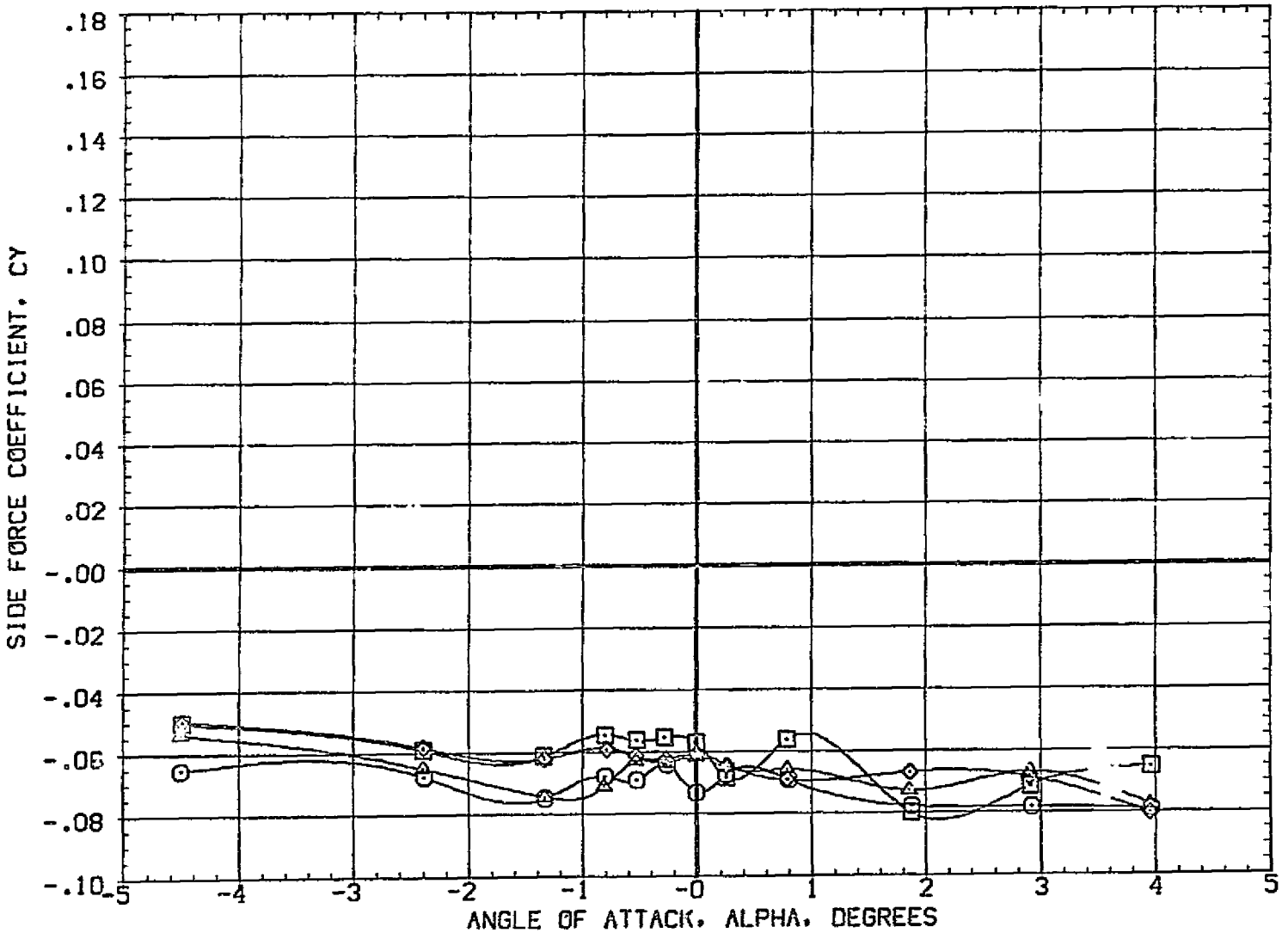


YAW MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	86.000
(BX1006)	□	OCAT ARC 603/604 B2 F4 C	.000	.000	40.000	86.000
(BX1009)	◇	OCAT ARC 603/604 B2 F4 C	.000	.000	60.000	86.000
(BX1012)	△	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



YAW MODULATION EFFECT

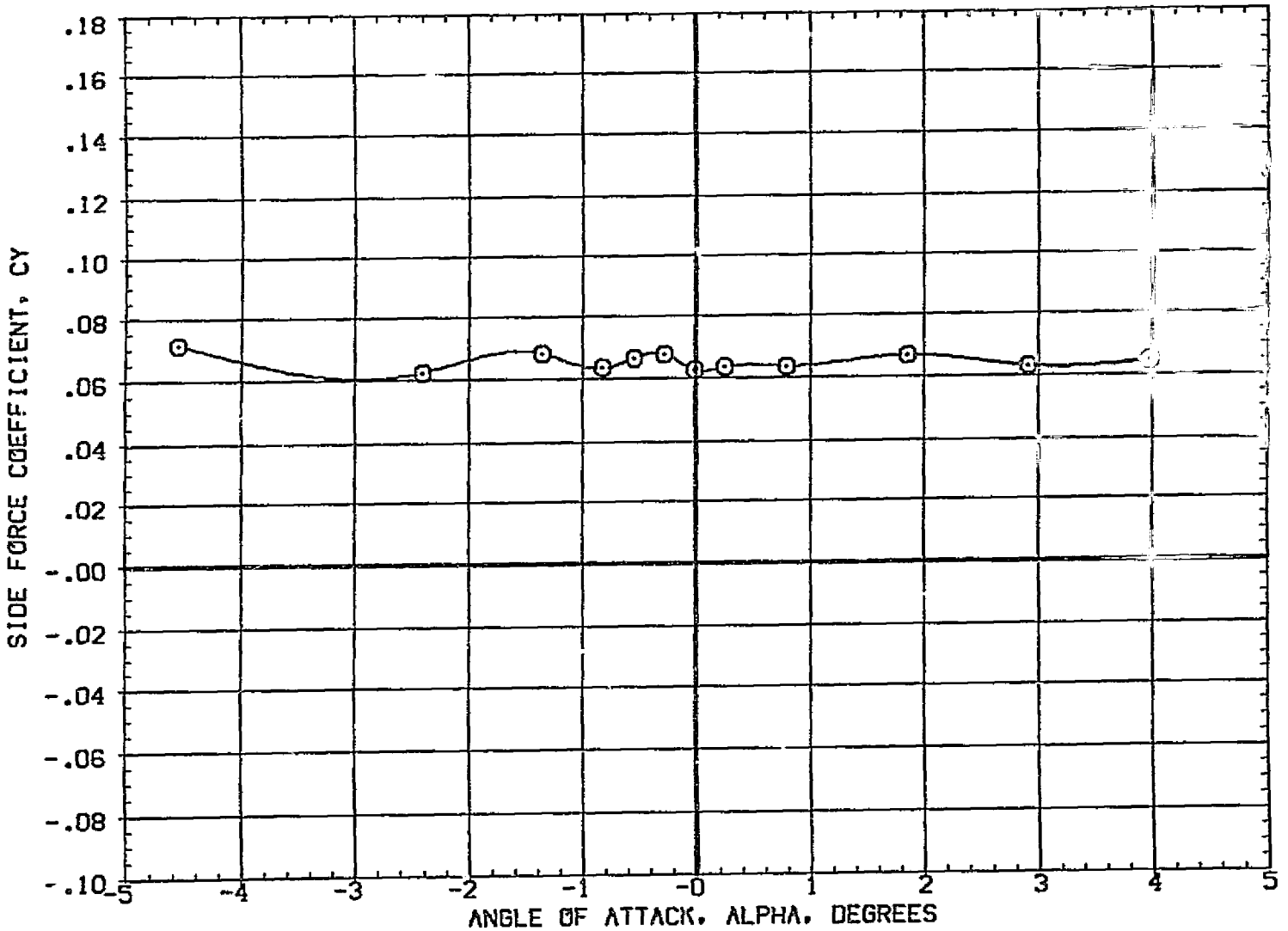
(G)MACH = 1.80

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BX1002)	○	DCAT ARC 603/604 B2 F4 C
(BX1006)	□	DATA NOT AVAILABLE
(BX1009)	◇	DATA NOT AVAILABLE
(BX1012)	△	DATA NOT AVAILABLE

BETA	P-MOD	Y-MOD	POLAR
.000	.000	.000	53.000
.000	.000	40.000	[illegible]
.000	.000	60.000	85.[illegible]
.000	.000	100.000	[illegible]

REFERENCE INFORMATION

[illegible]	.1100	SQ.FT.
[illegible]	.3750	FT.
[illegible]	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCENT

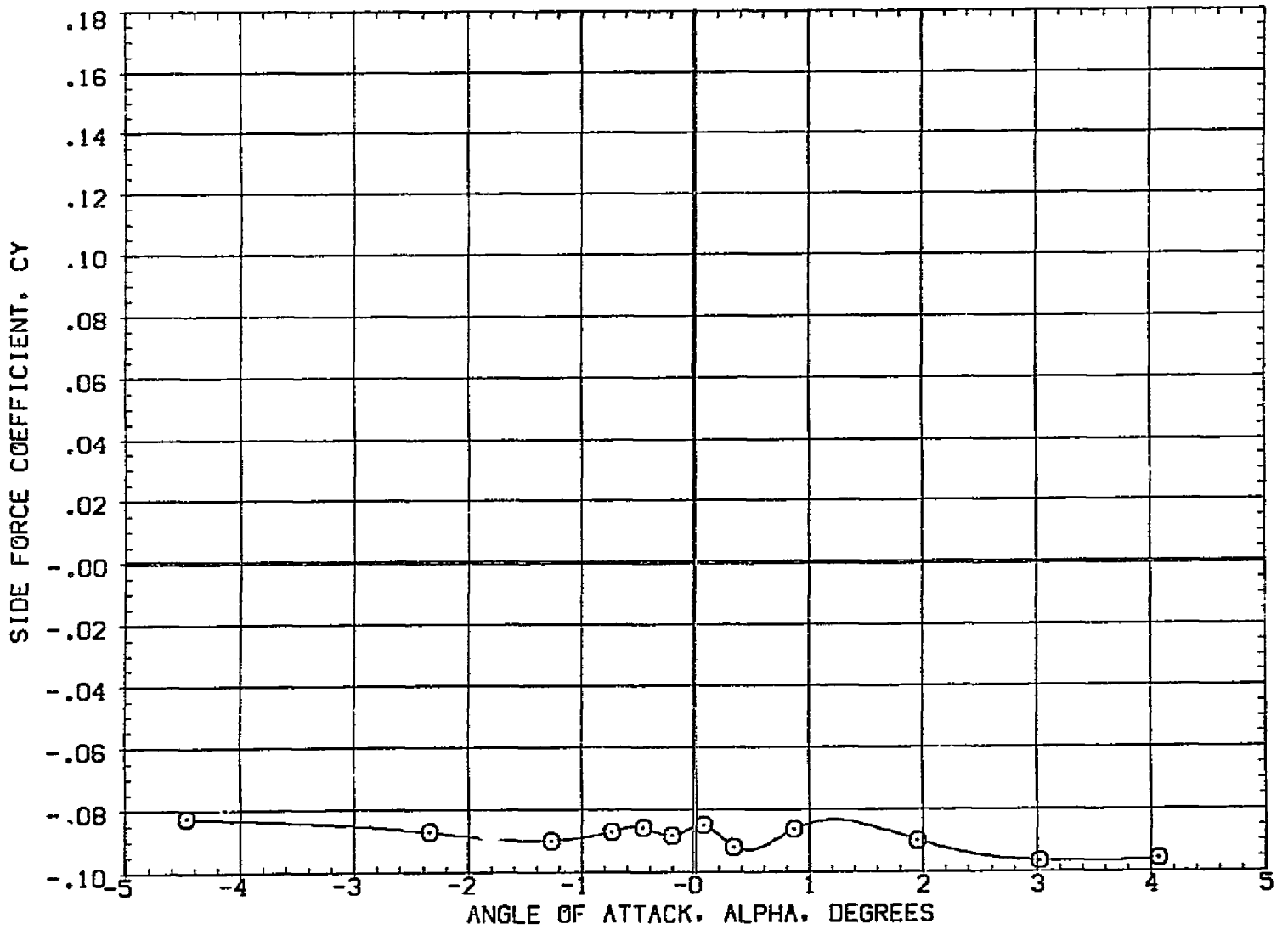


YAW MODULATION EFFECT

(H)MACH = 2.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1002)	○	DCAT ARC 603/604 82 F4 C	.000	.000	.000	86.000
(BX1006)	□	DATA NOT AVAILABLE	.000	.000	40.000	86.000
(BX1009)	◇	DATA NOT AVAILABLE	.000	.000	60.000	86.000
(BX1012)	△	DATA NOT AVAILABLE	.000	.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

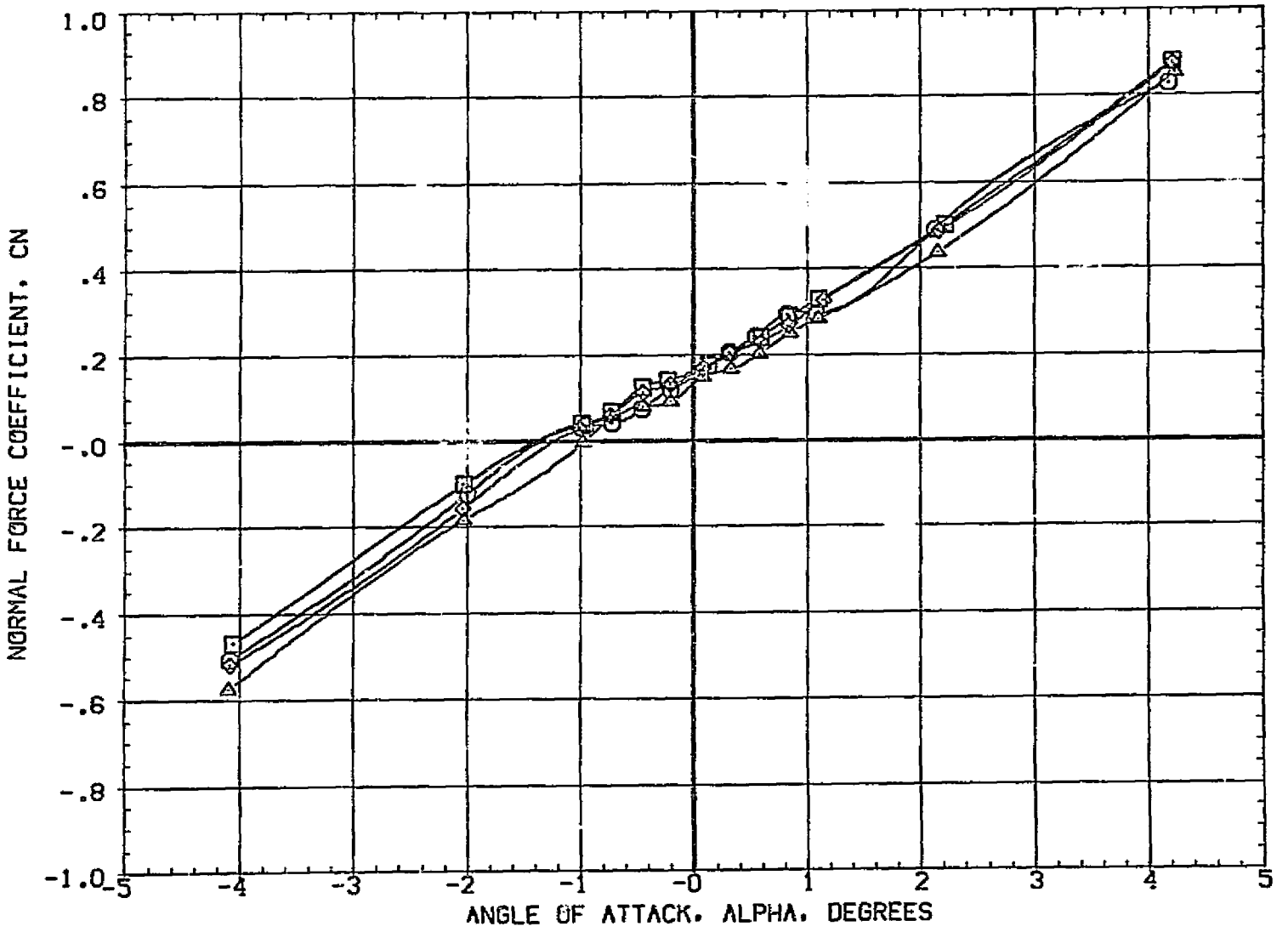


YAW MODULATION EFFECT

(1)MACH = 2.50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1005)	○	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000
(BX1008)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	66.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	85.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	66.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



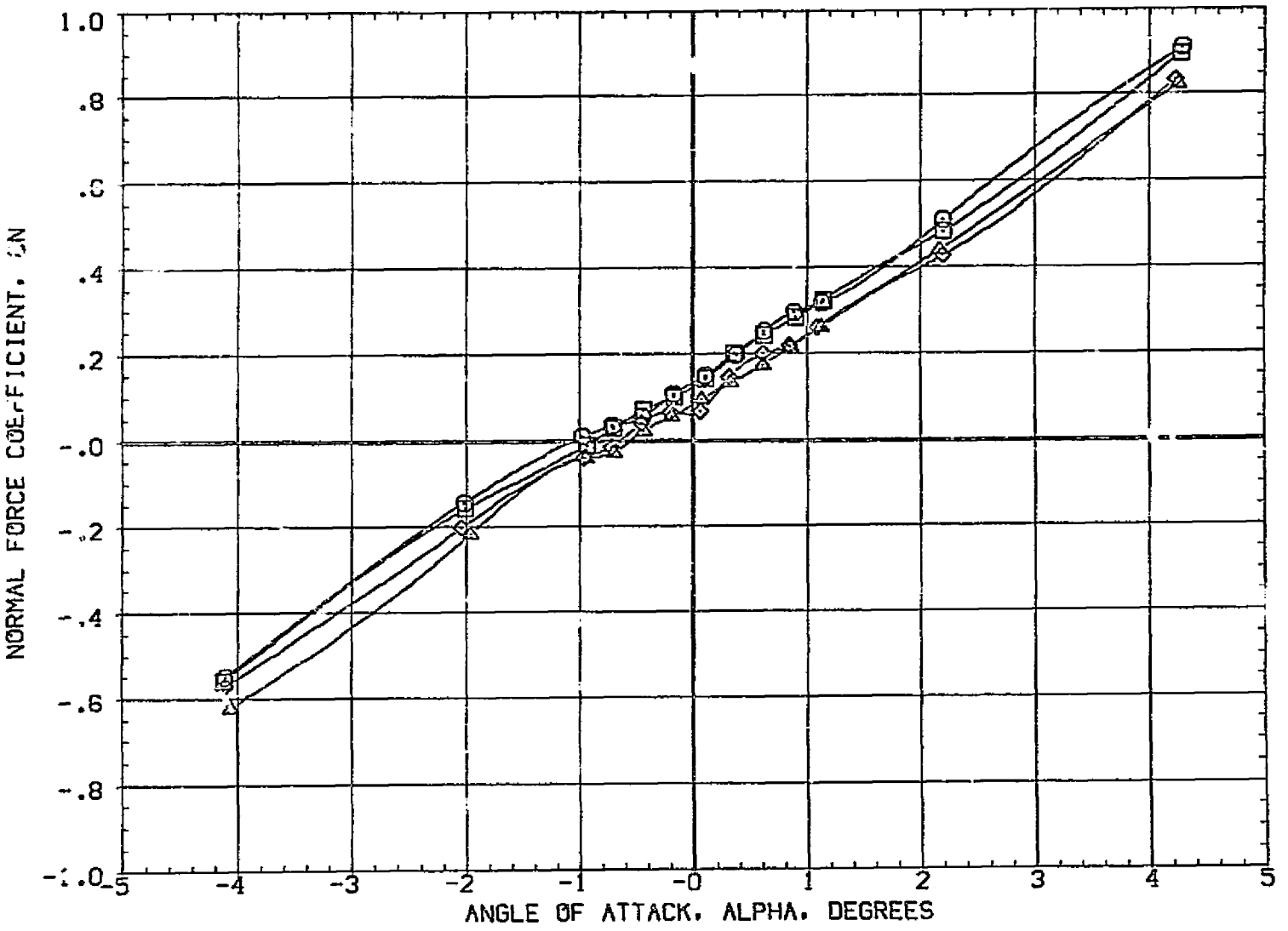
YAW MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	○	DCAT ARC 603/604 B2 F4 C
(BX1008)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	60.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



YAW MODULATION EFFECT

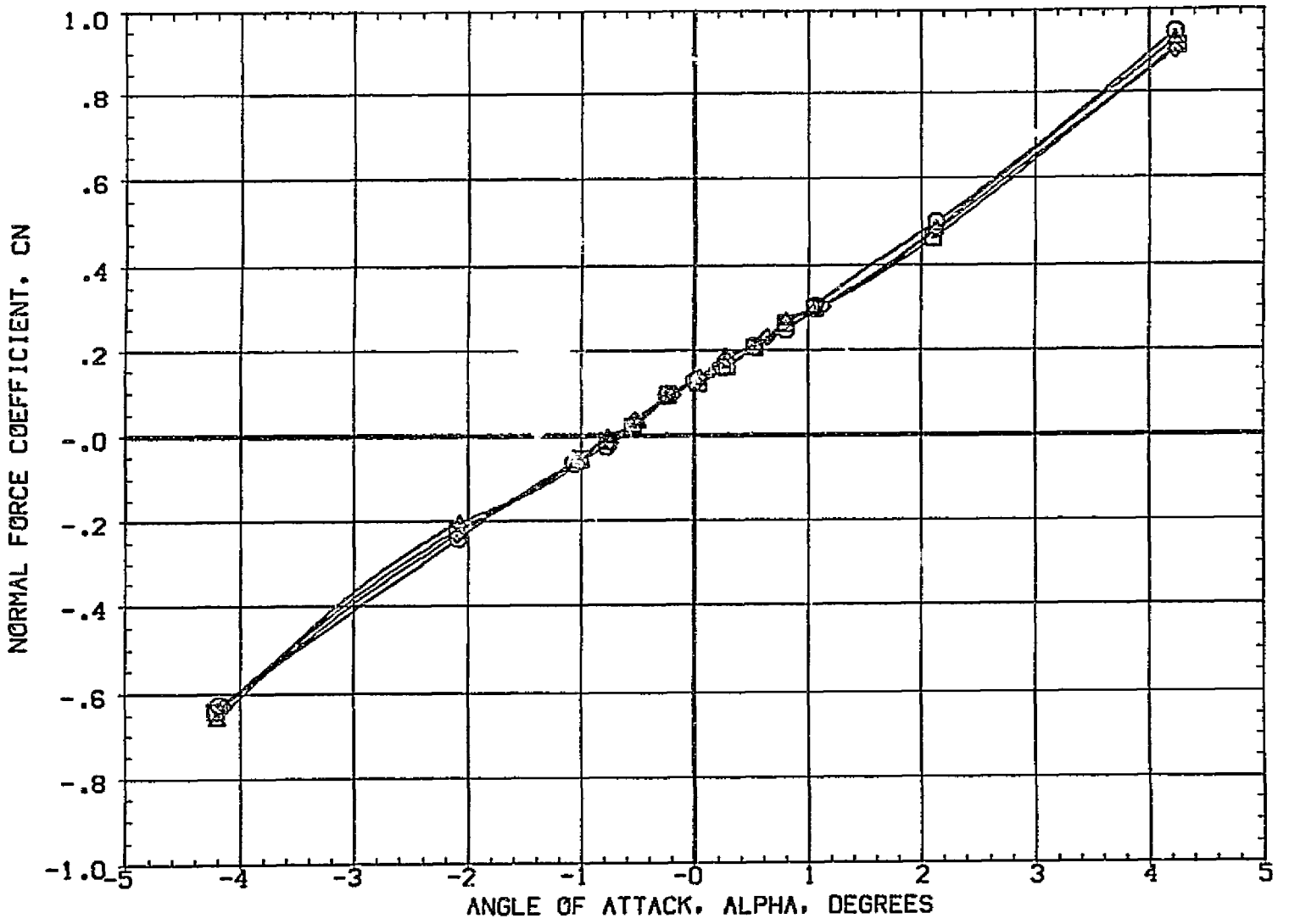
(B)MACH = 0.80

1989

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1005)	○	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000
(BX1008)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



YAW MODULATION EFFECT

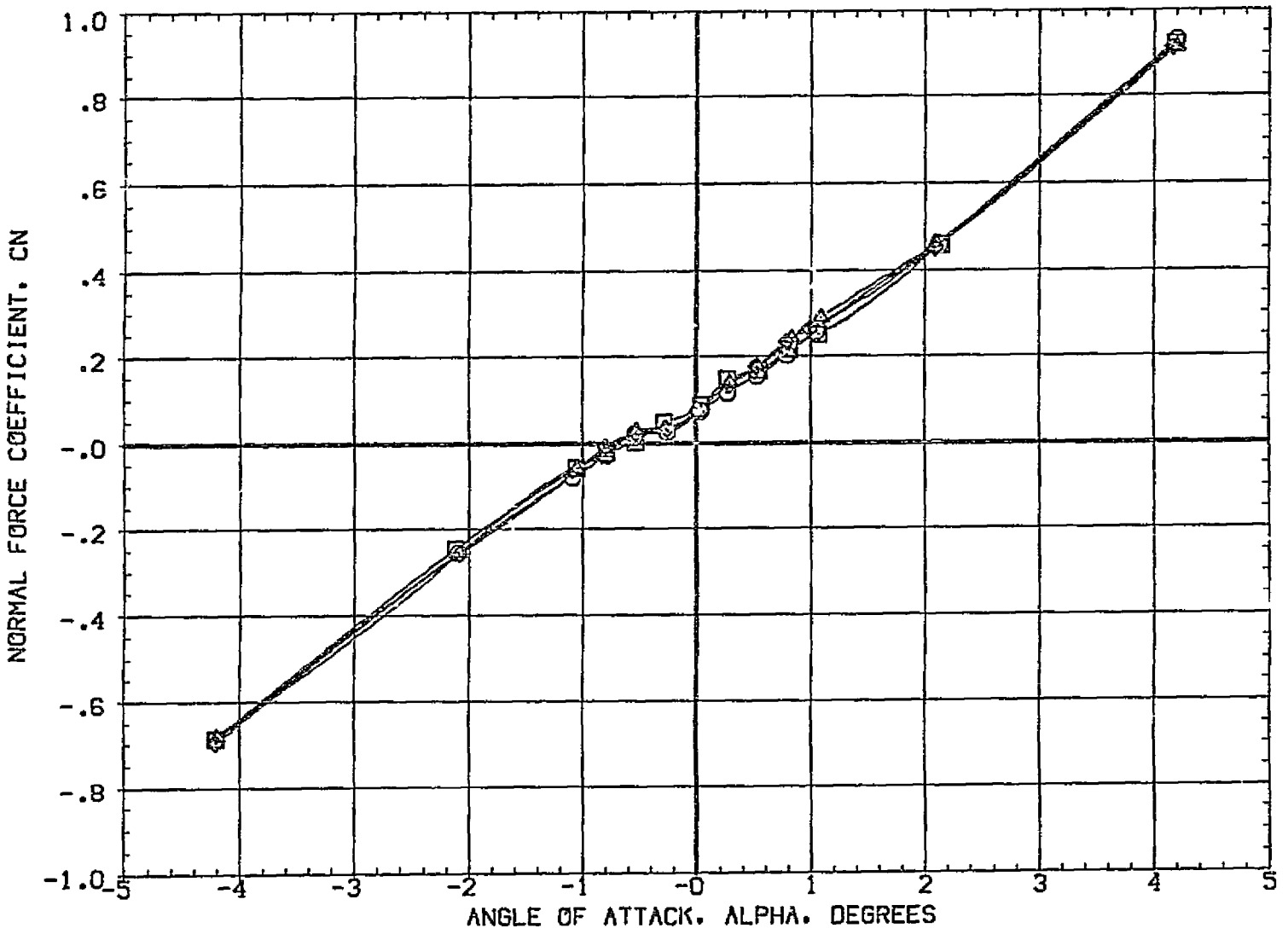
(C)MACH = 0.95

190<

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	○	DCAT ARC 603/604 B2 F4 C
(BX1008)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	60.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

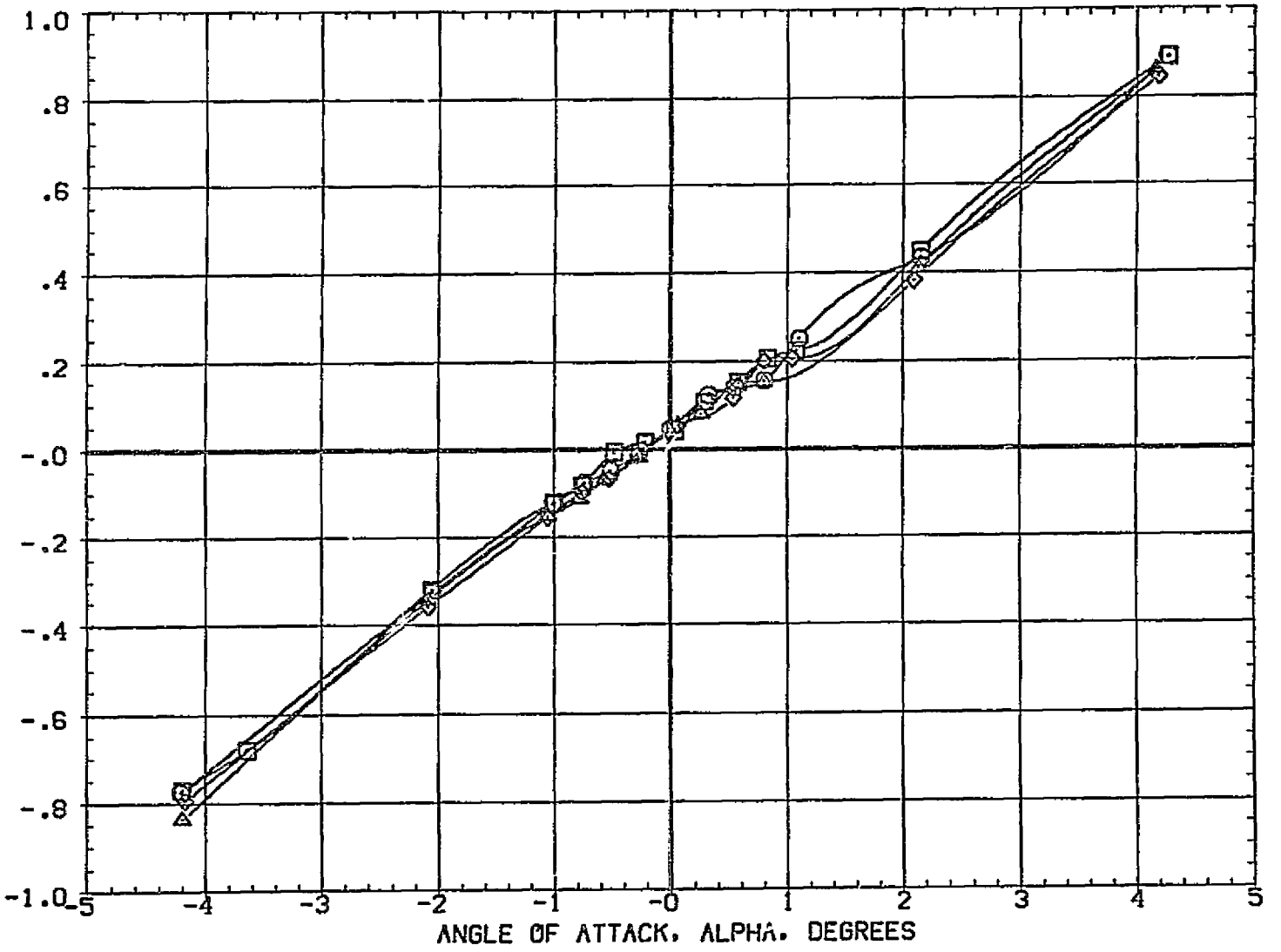


YAW MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	○	DCAT ARC 603/604 B2 F4 C
(BX1009)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	⋈	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	60.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

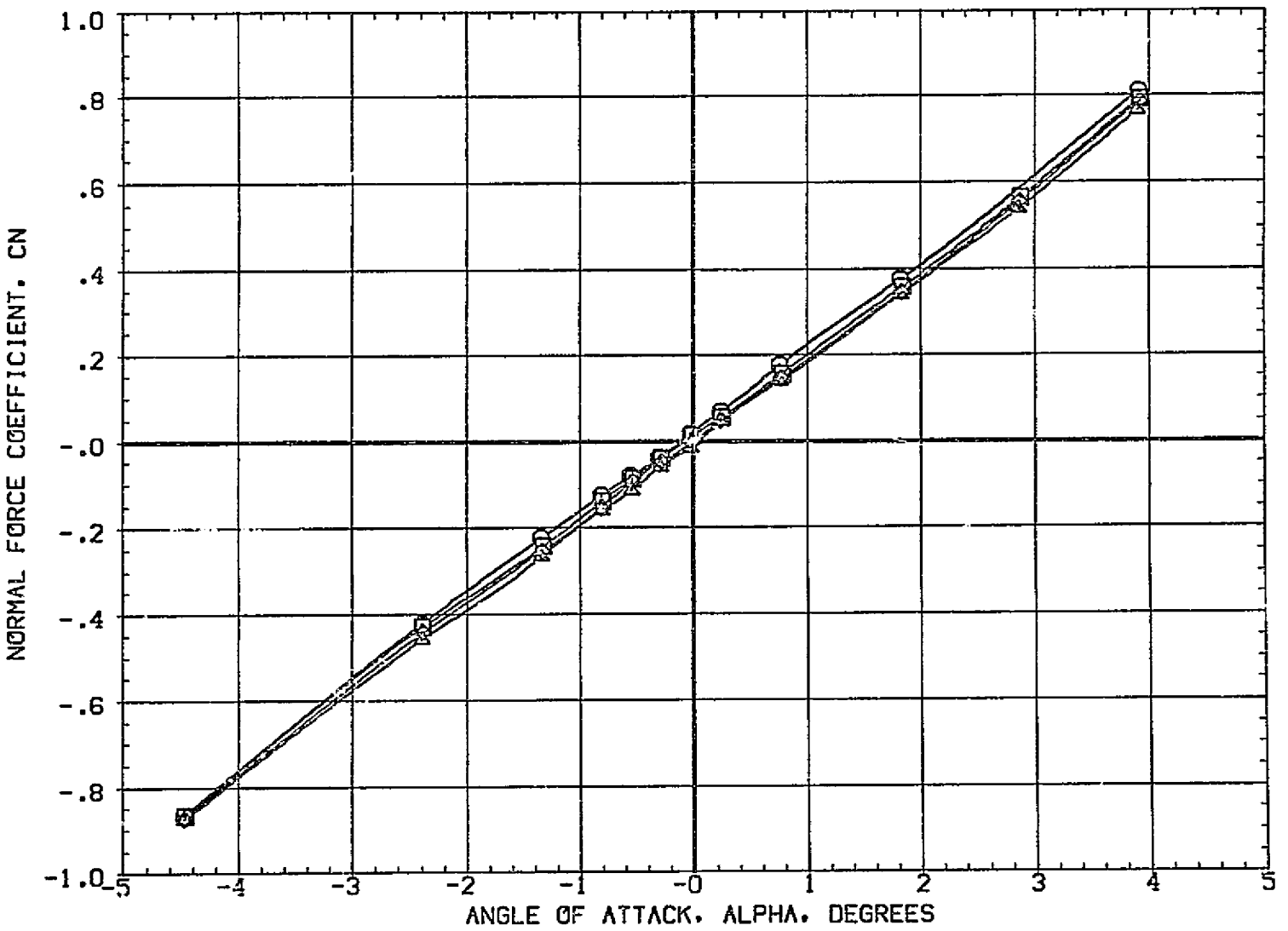


YAW MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1005)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000
(BX1008)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	66.000
(BX1011)	⋈	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

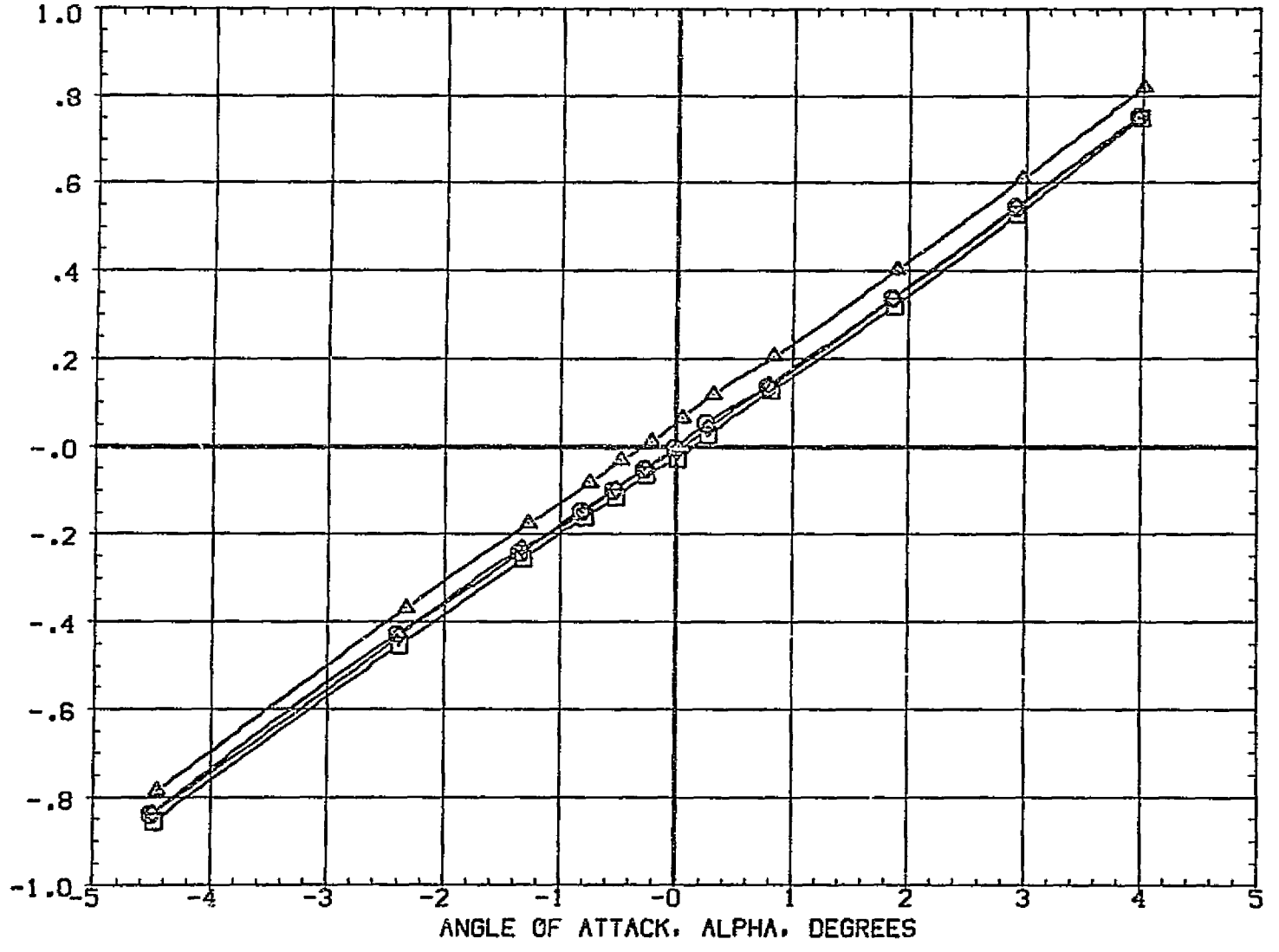


YAW MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1005)	○	OCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000
(BX1008)	□	OCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000
(BX1011)	◇	OCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000
(BX1015)	△	OCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



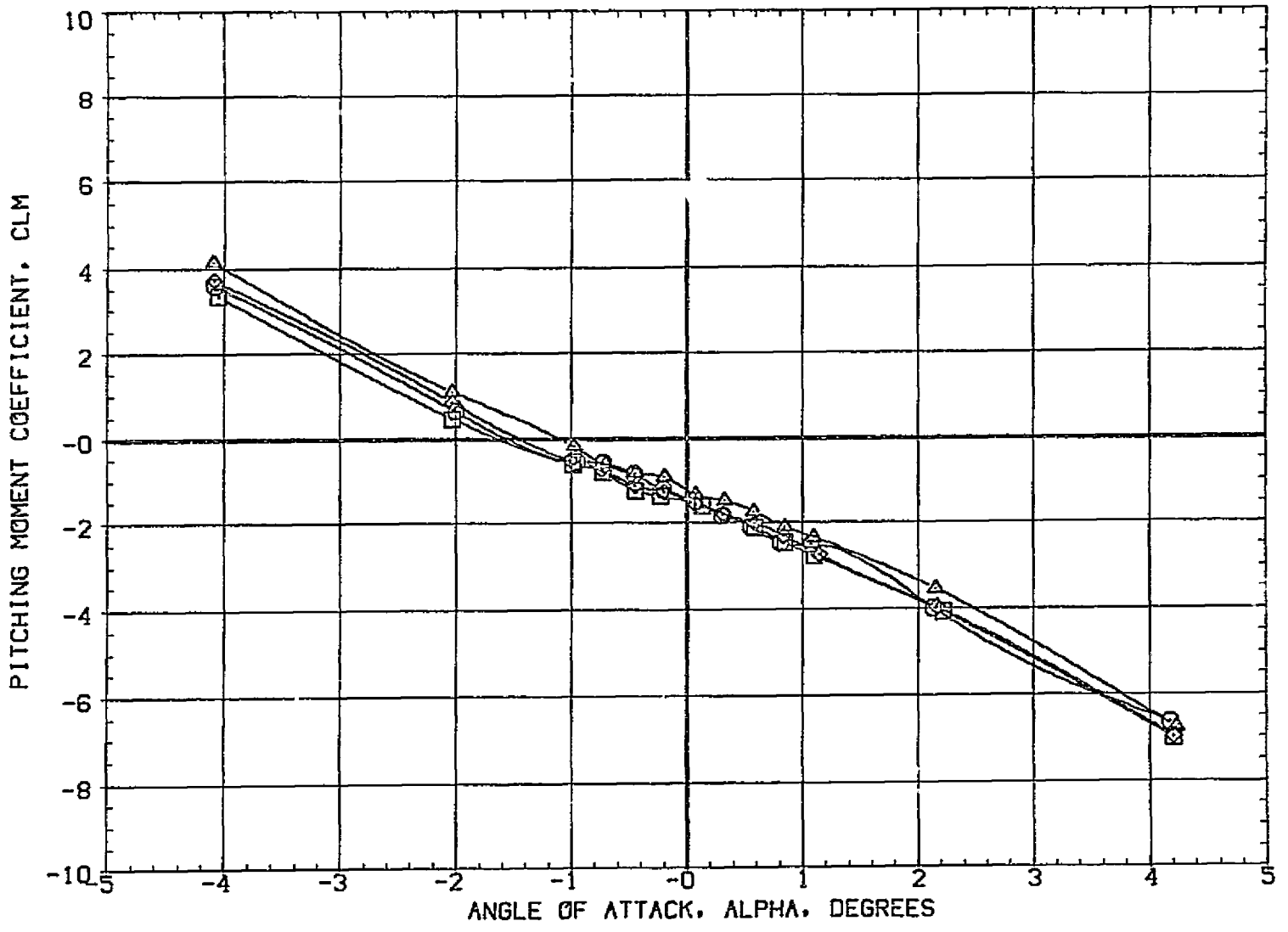
YAW MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	○	DCAT ARC 603/604 B2 F4 C
(BX1008)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	⋈	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	60.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



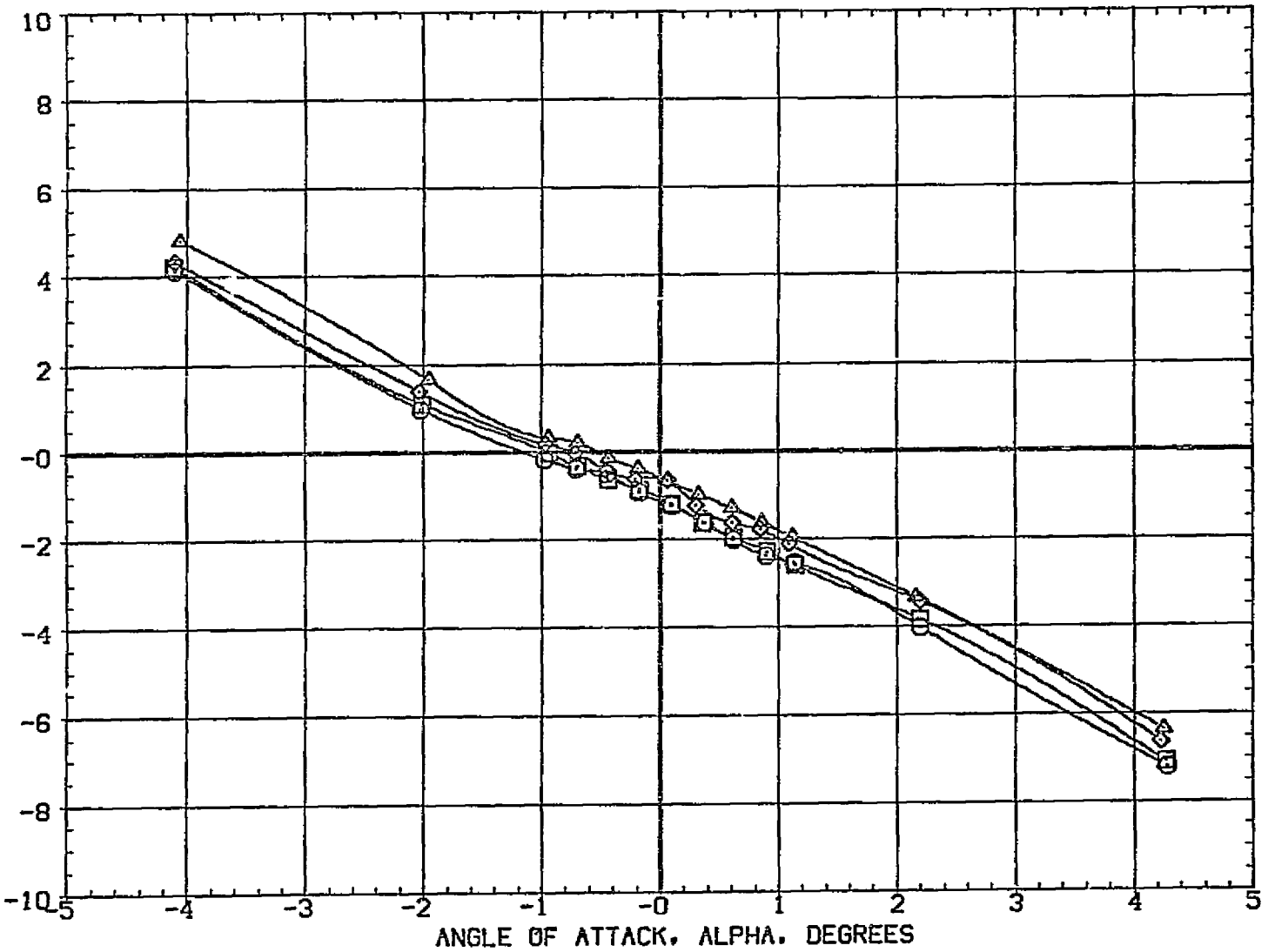
YAW MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	□	DCAT ARC 603/604 B2 F4 C
(BX1008)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POV/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	60.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



YAW MODULATION EFFECT

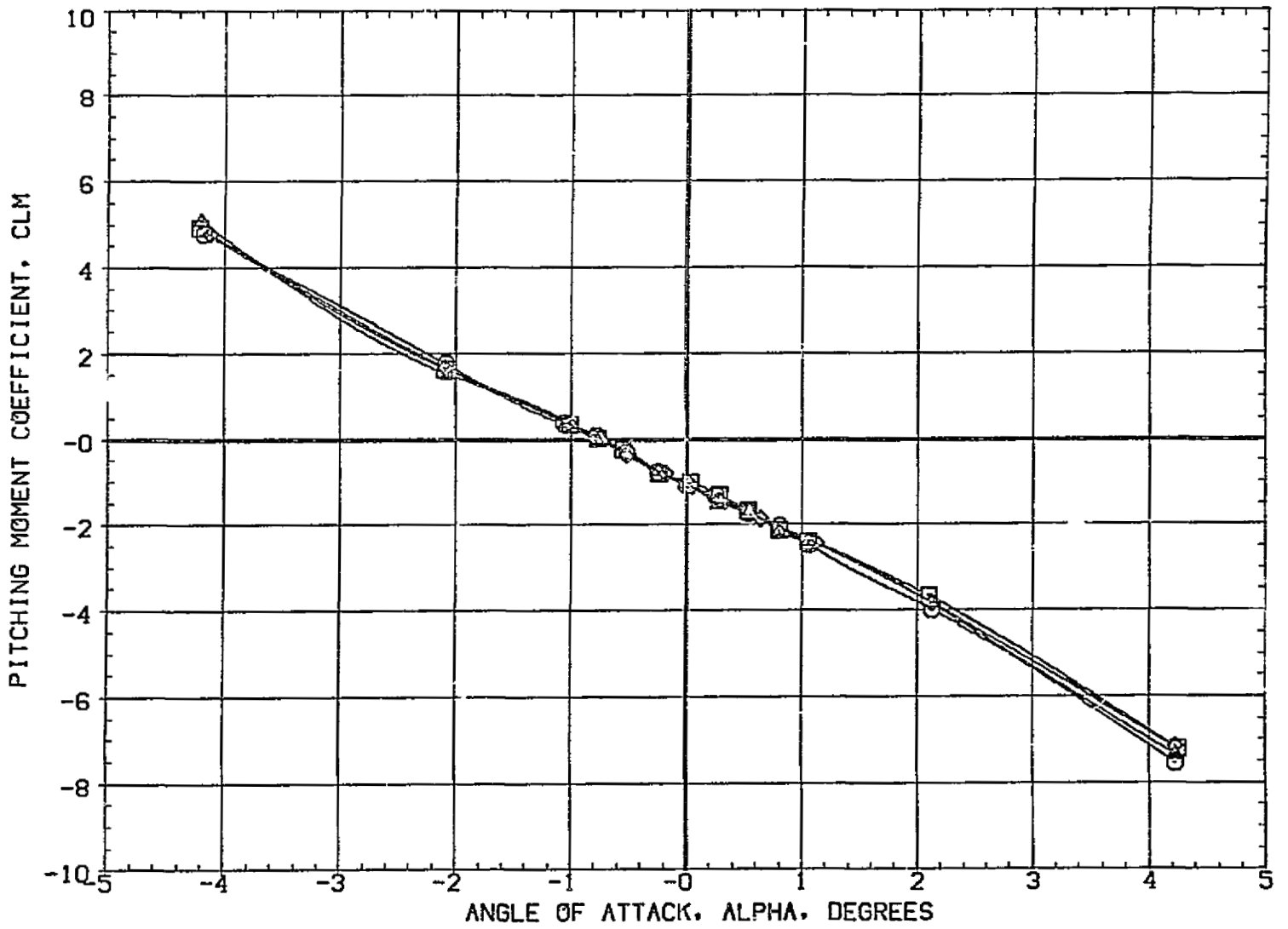
(B)MACH = 0.80

AEDC 1996

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	○	DCAT ARC 603/604 B2 F4 C
(BX1008)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	60.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

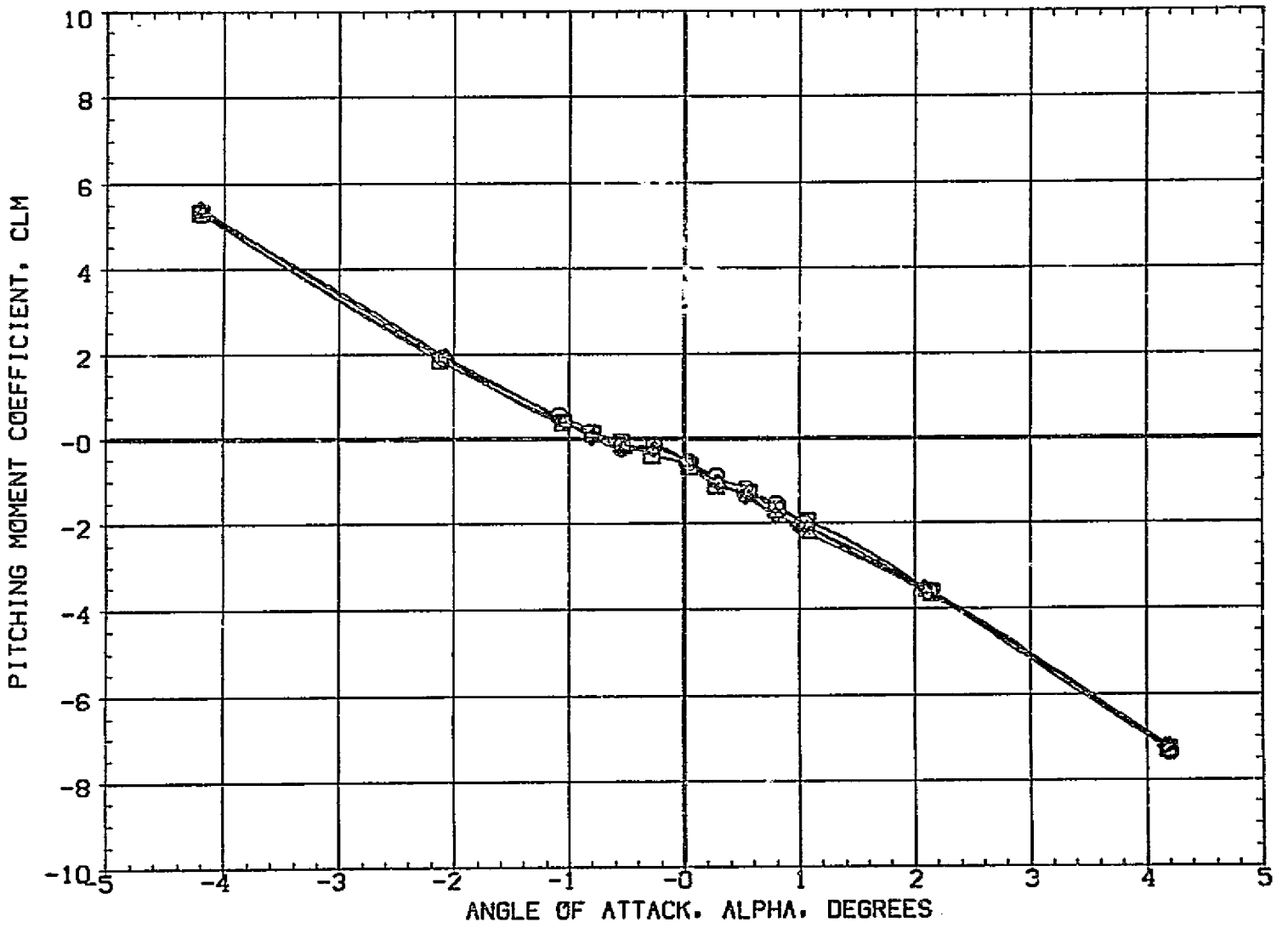


YAW MODULATION EFFECT

[C]MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	PQJ/PF
(BX1005)	○	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	66.000
(BX1008)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	66.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	85.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



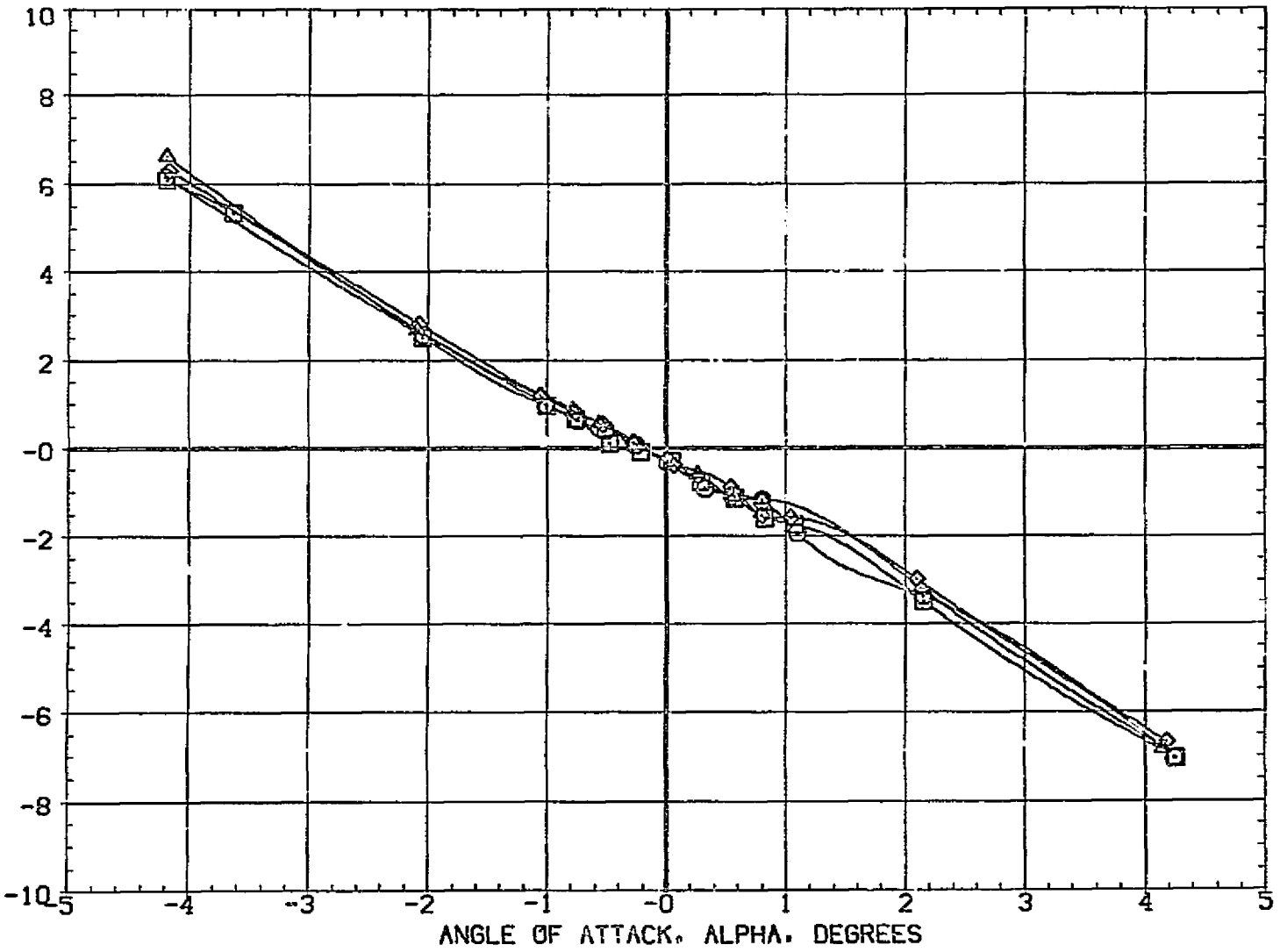
YAW MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	○	OCAT ARC 603/604 B2 F4 C
(BX1008)	□	OCAT ARC 603/604 B2 F4 C
(BX1011)	◇	OCAT ARC 603/604 B2 F4 C
(BX1015)	△	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	80.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

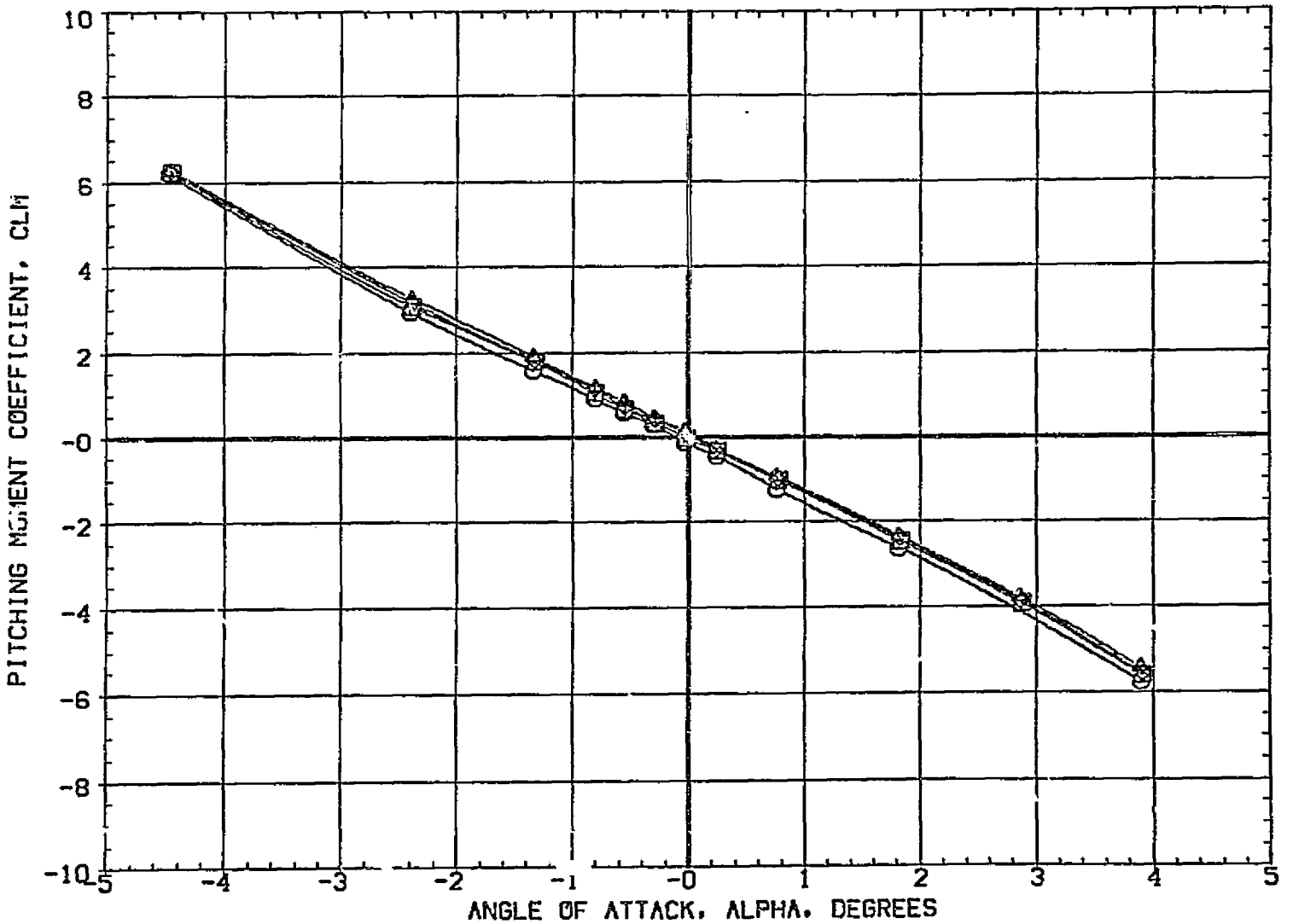


YAW MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	○	DCAT ARC 603/604 B2 F4 C
(BX1008)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF
.000	100.000	.000	85.000
.000	100.000	40.000	85.000
.000	100.000	60.000	85.000
.000	100.000	100.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



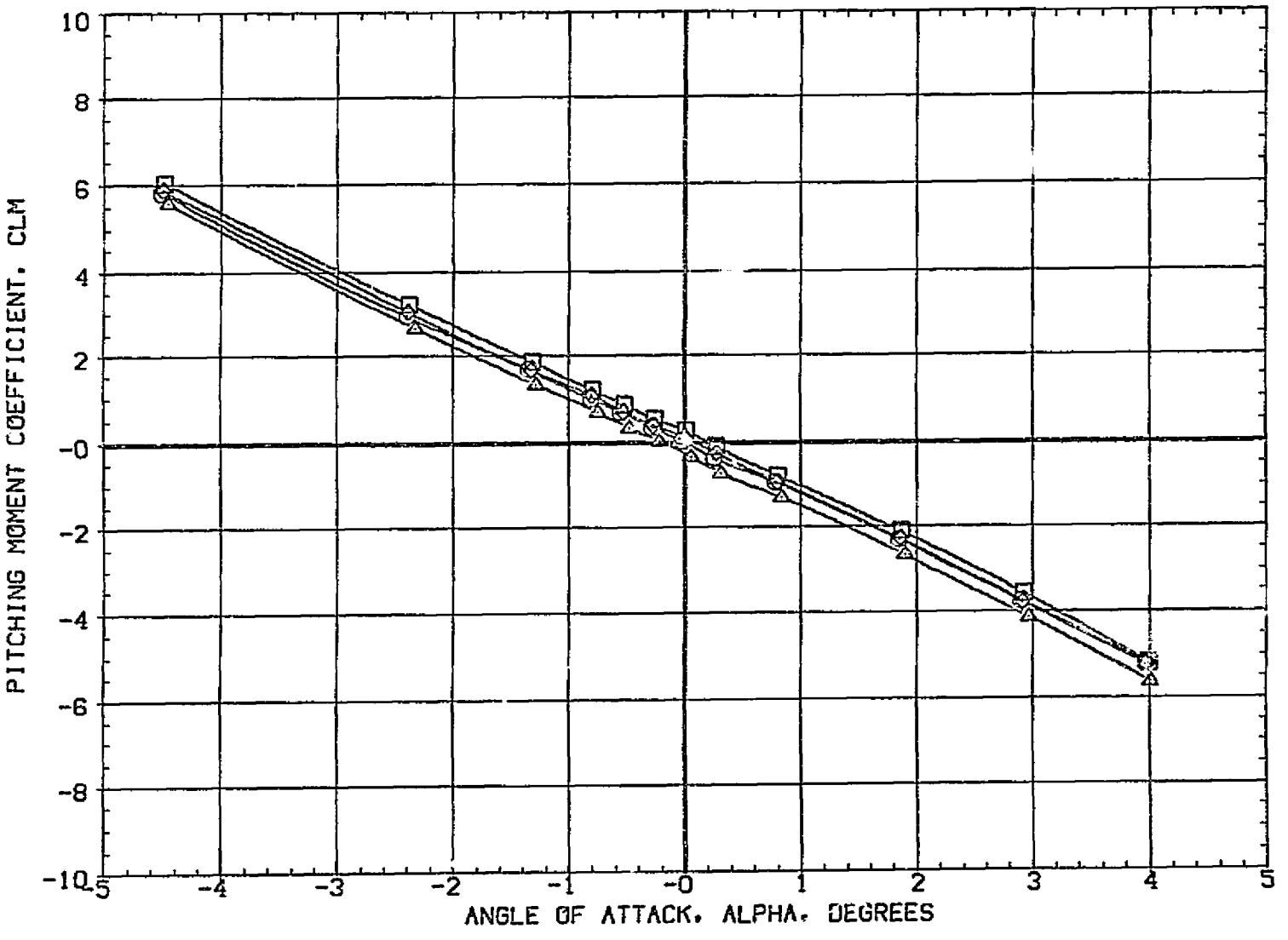
YAW MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	□	OCAT ARC 603/604 B2 F4 C
(BX1008)	□	OCAT ARC 603/604 B2 F4 C
(BX1011)	◇	OCAT ARC 603/604 B2 F4 C
(BX1015)	△	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	PBJ/PF
.000	100.000	.000	85.000
.000	100.000	40.000	85.000
.000	100.000	60.000	85.000
.000	100.000	100.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

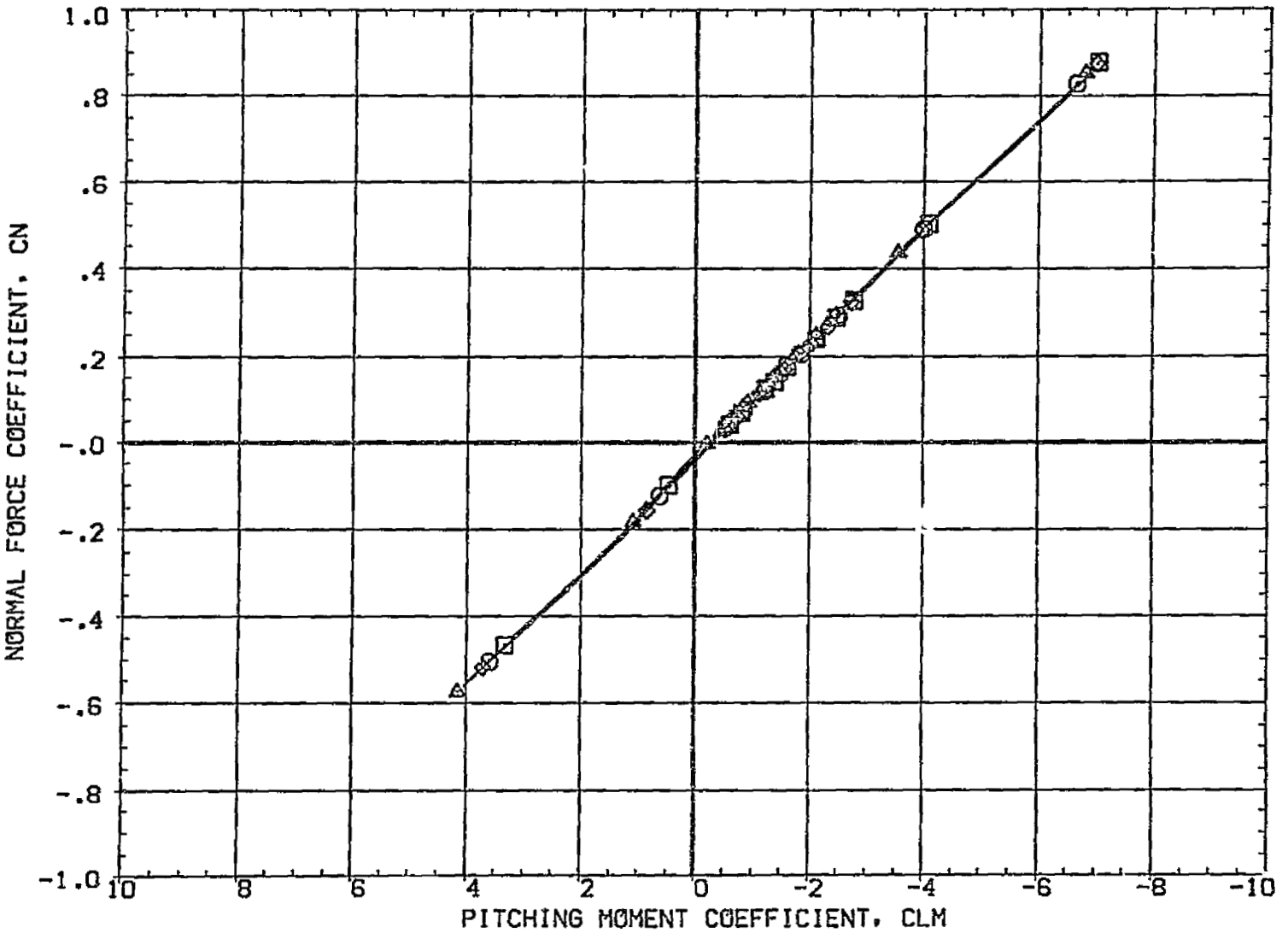


YAW MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1005)	○	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000
(BX1008)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000
(BX1011)	⧖	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



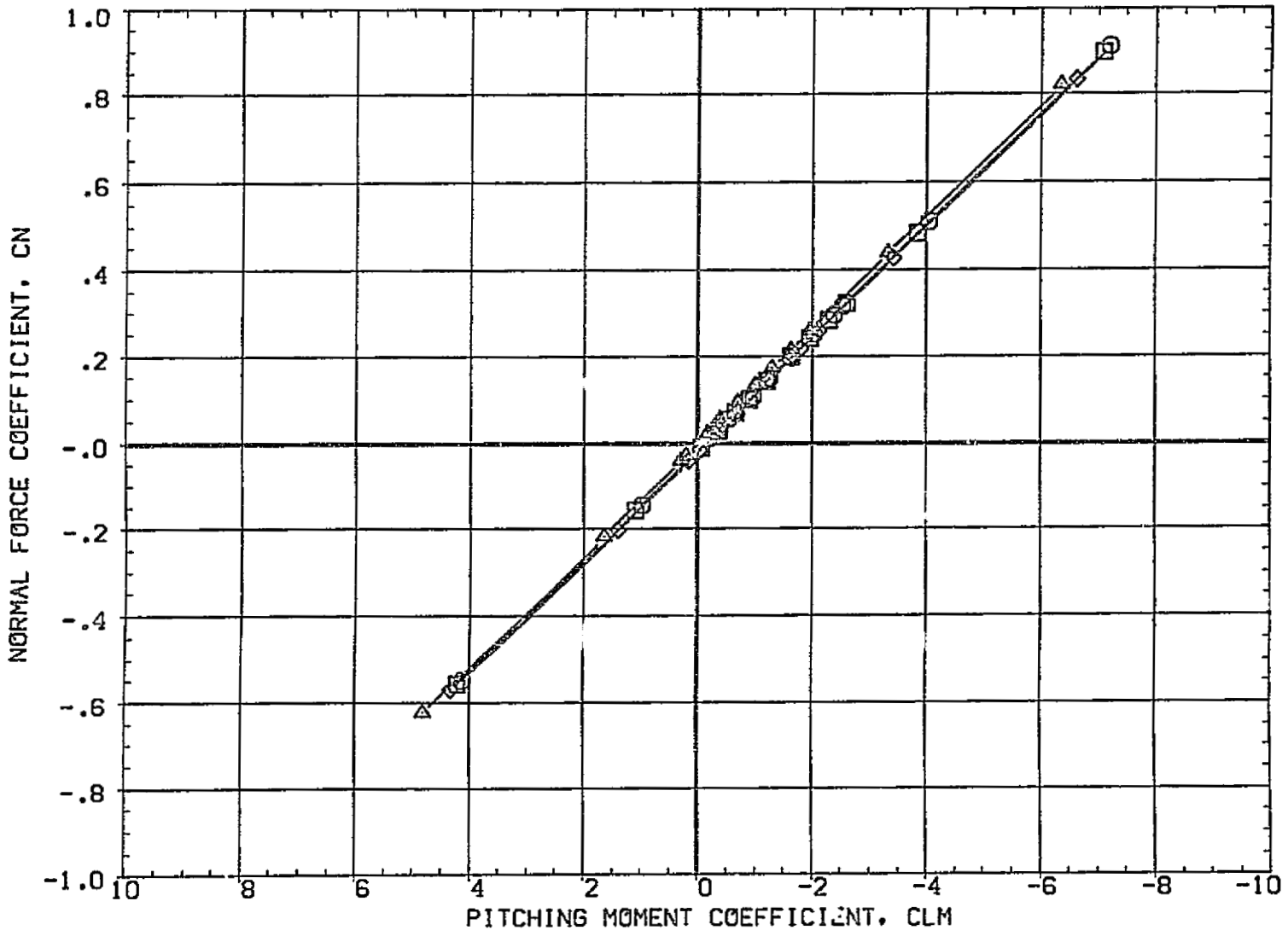
YAW MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(8X1005)	□	DCAT ARC 603/604 B2 F4 C
(8X1008)	◇	DCAT ARC 603/604 B2 F4 C
(8X1011)	⋈	DCAT ARC 603/604 B2 F4 C
(8X1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	60.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

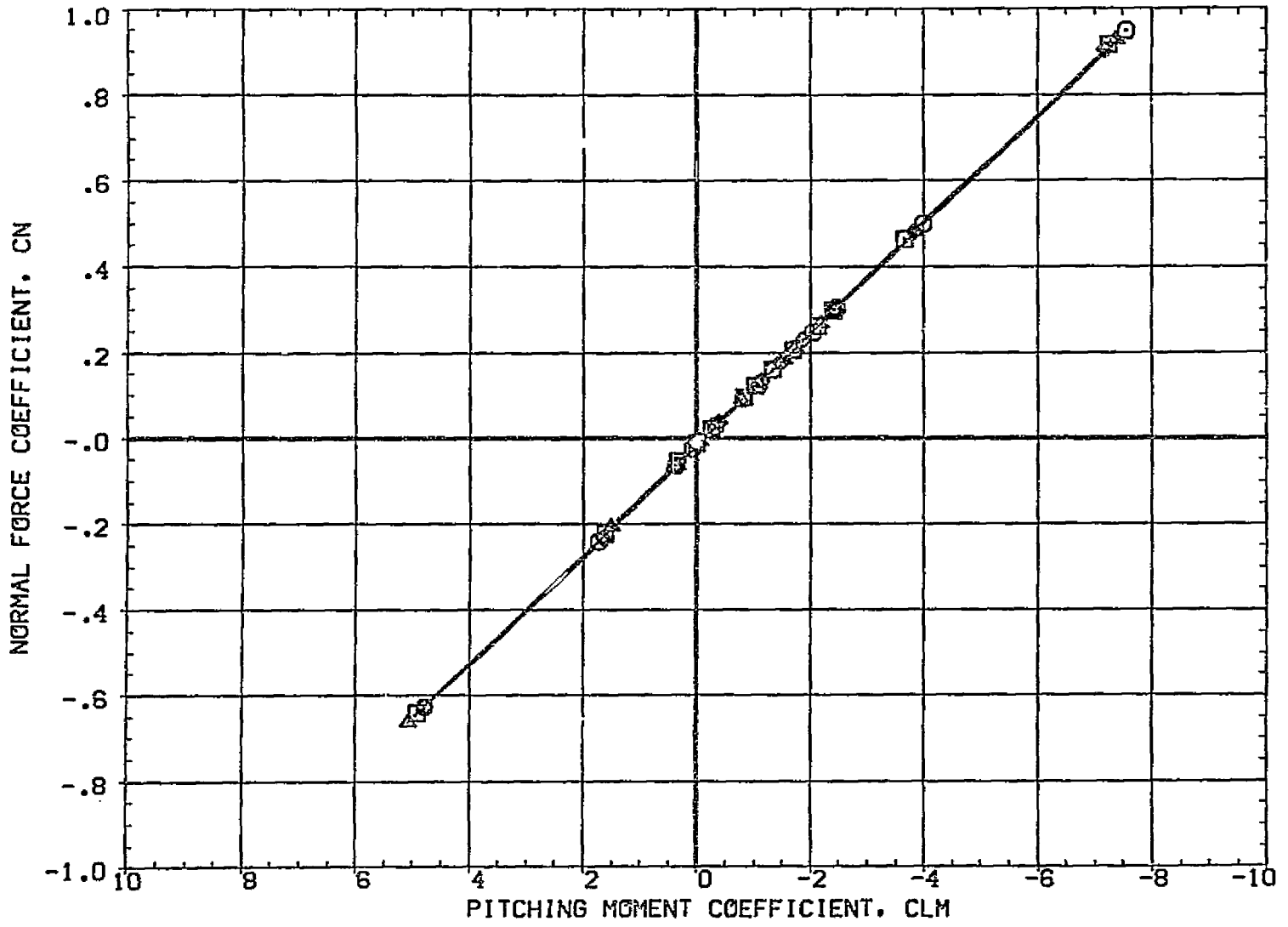


YAW MODULATION EFFECT

(B)MACH = 0.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1005)	○	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000
(BX1008)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



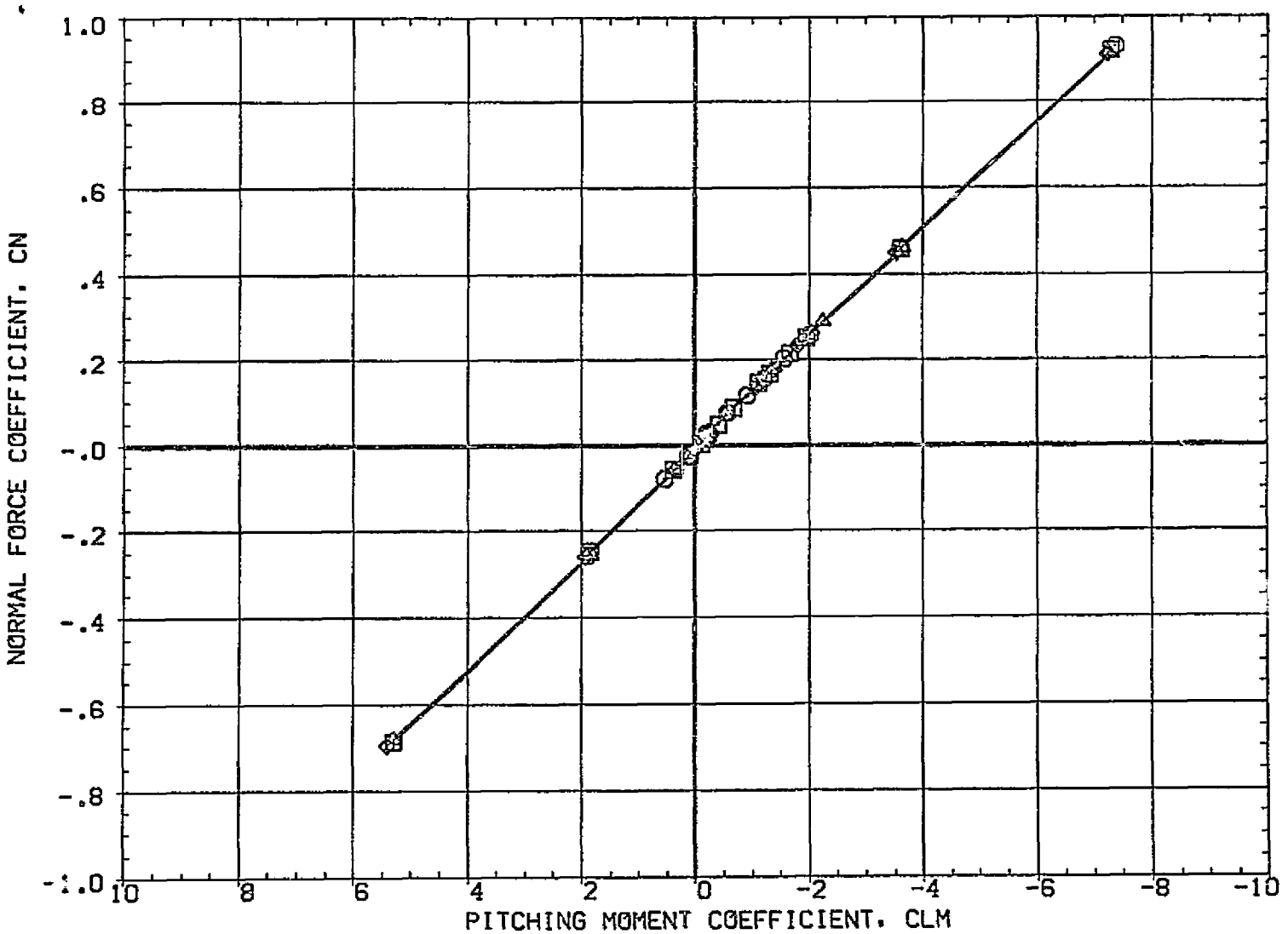
YAW MODULATION EFFECT

(C)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	○	OCAT ARC 603/604 B2 F4 C
(BX1008)	□	OCAT ARC 603/604 B2 F4 C
(BX1011)	⋈	OCAT ARC 603/604 B2 F4 C
(BX1015)	△	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	60.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



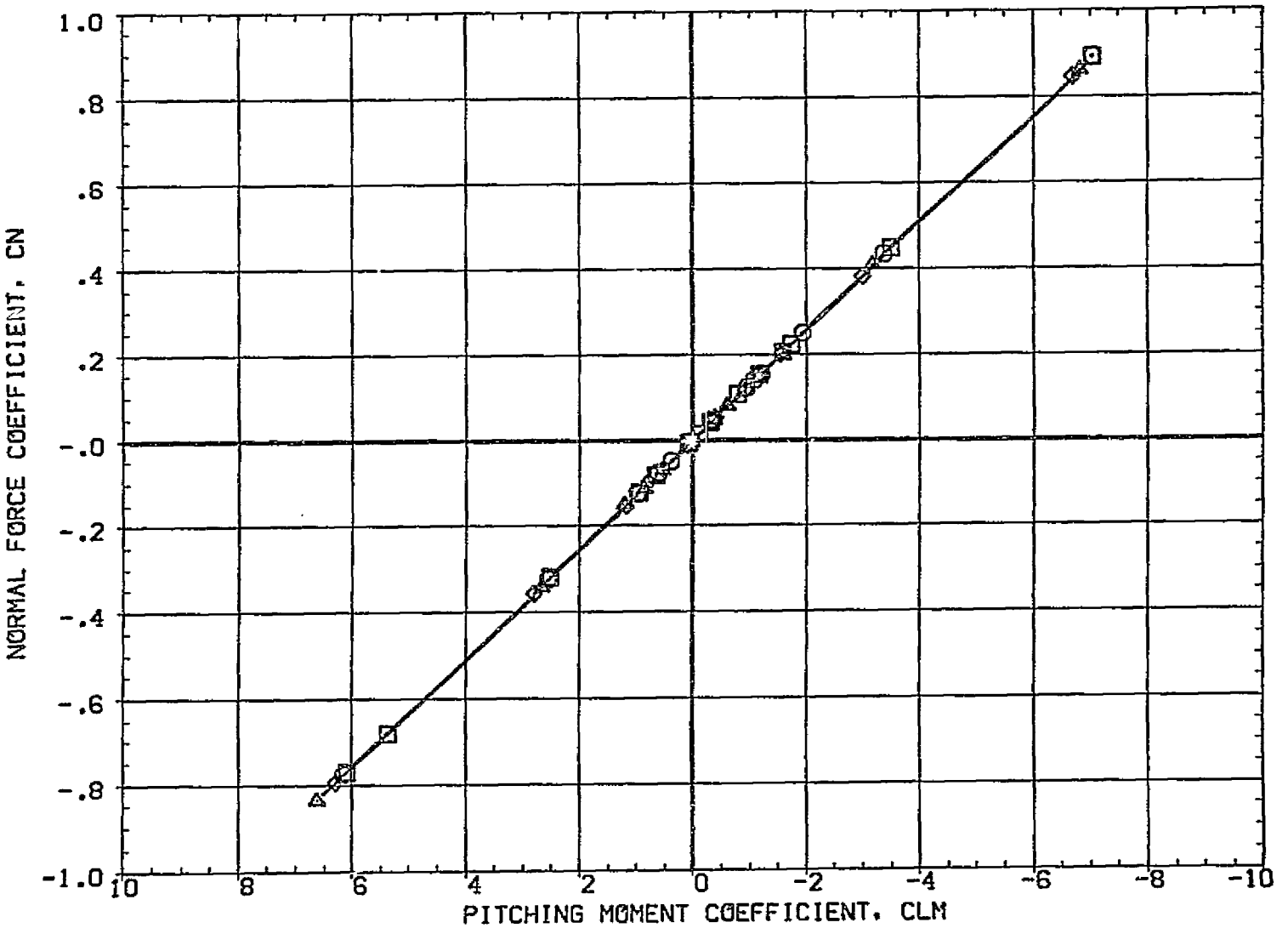
YAW MODULATION EFFECT

RDIMACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	○	DCAT ARC 603/604 B2 F4 C
(BX1009)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	60.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



YAW MODULATION EFFECT

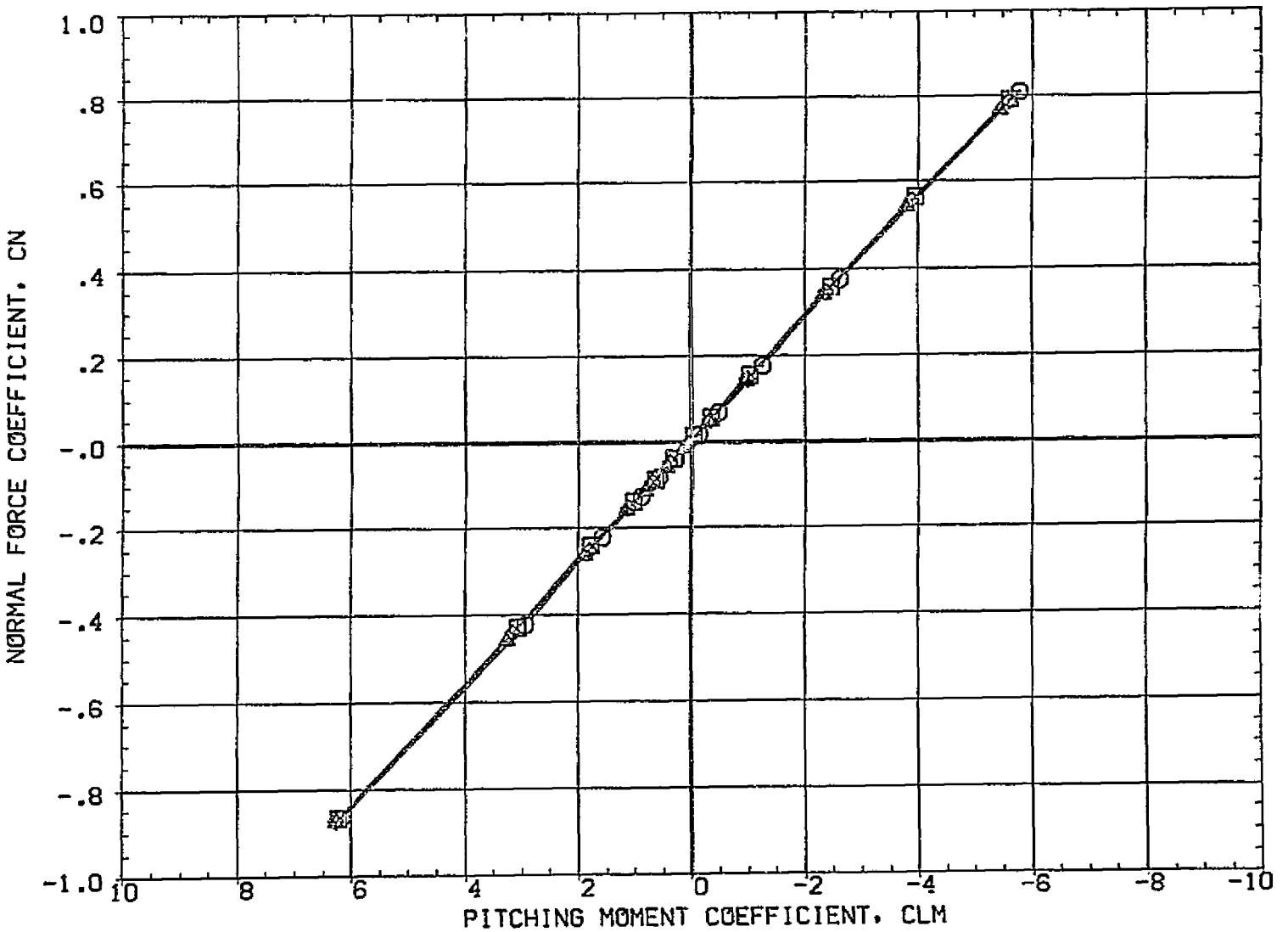
(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	○	DCAT ARC 603/604 B2 F4 C
(BX1008)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POS/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	60.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1103	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

>2.02



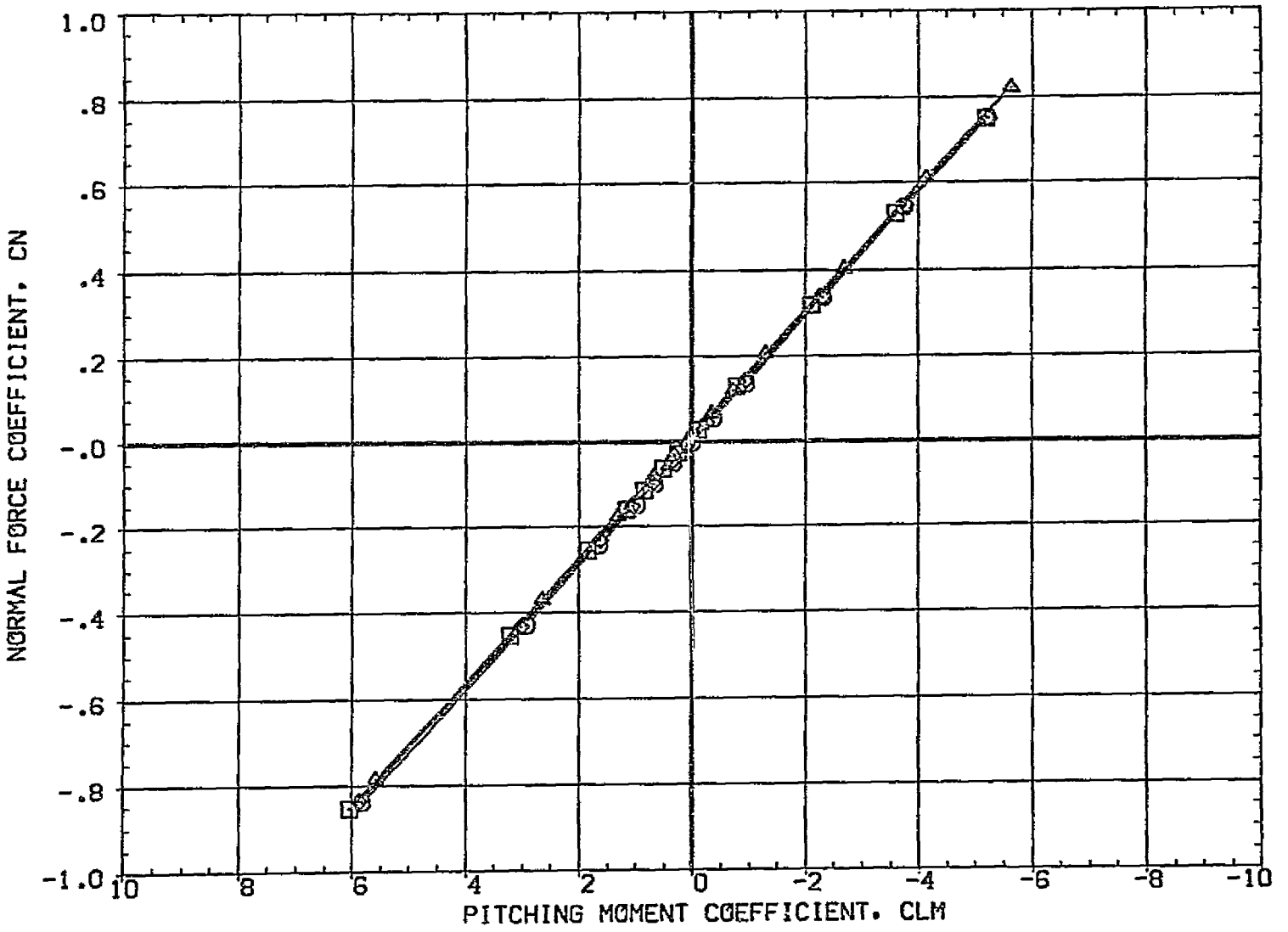
YAW MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	○	OCAT ARC 603/604 B2 F4 C
(BX1008)	□	OCAT ARC 603/604 B2 F4 C
(BX1011)	◇	OCAT ARC 603/604 B2 F4 C
(BX1015)	△	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	60.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



>8.12

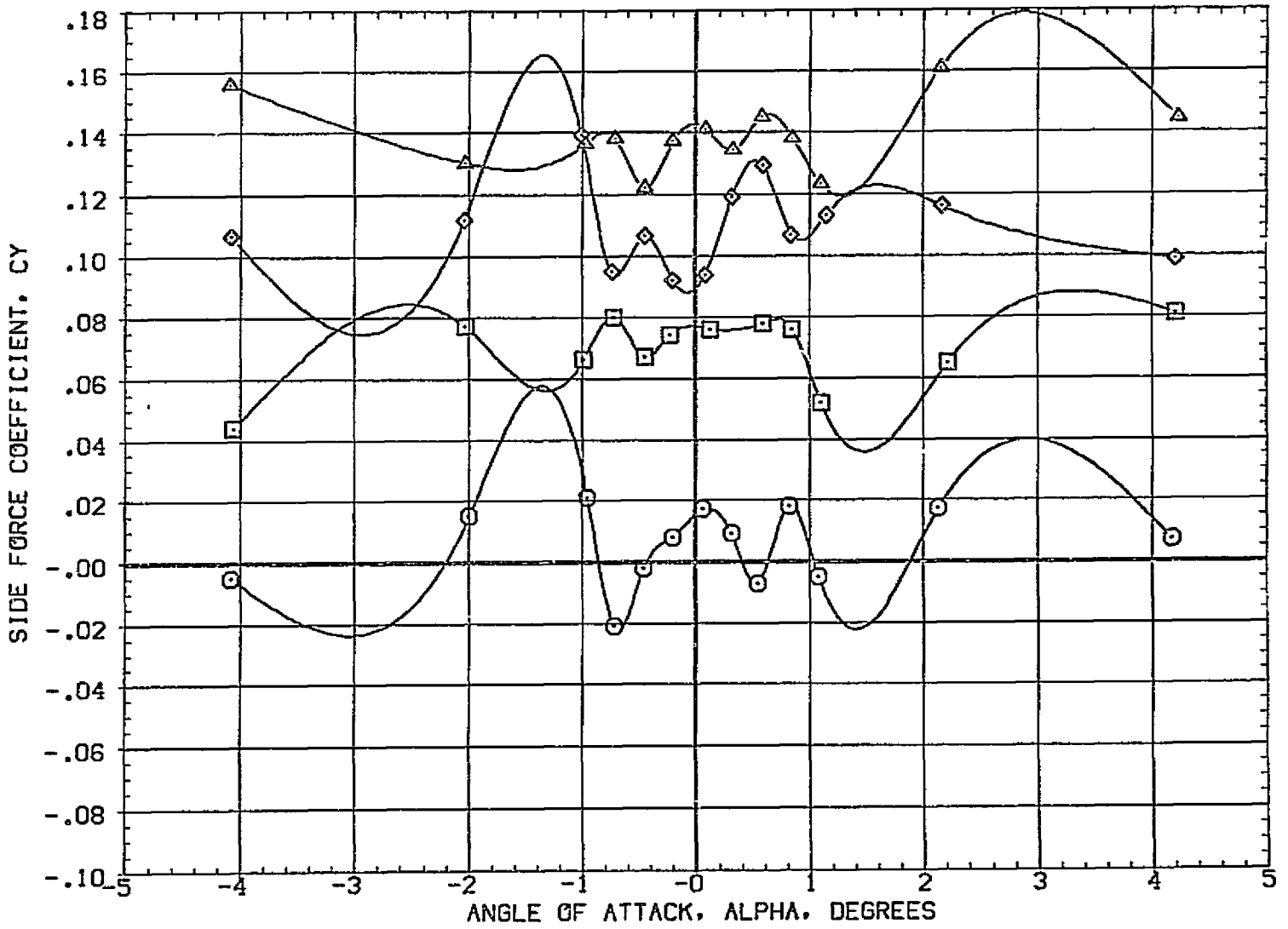
YAW MODULATION EFFECT

(G)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	○	DCAT ARC 603/604 B2 F4 C
(BX1008)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	60.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



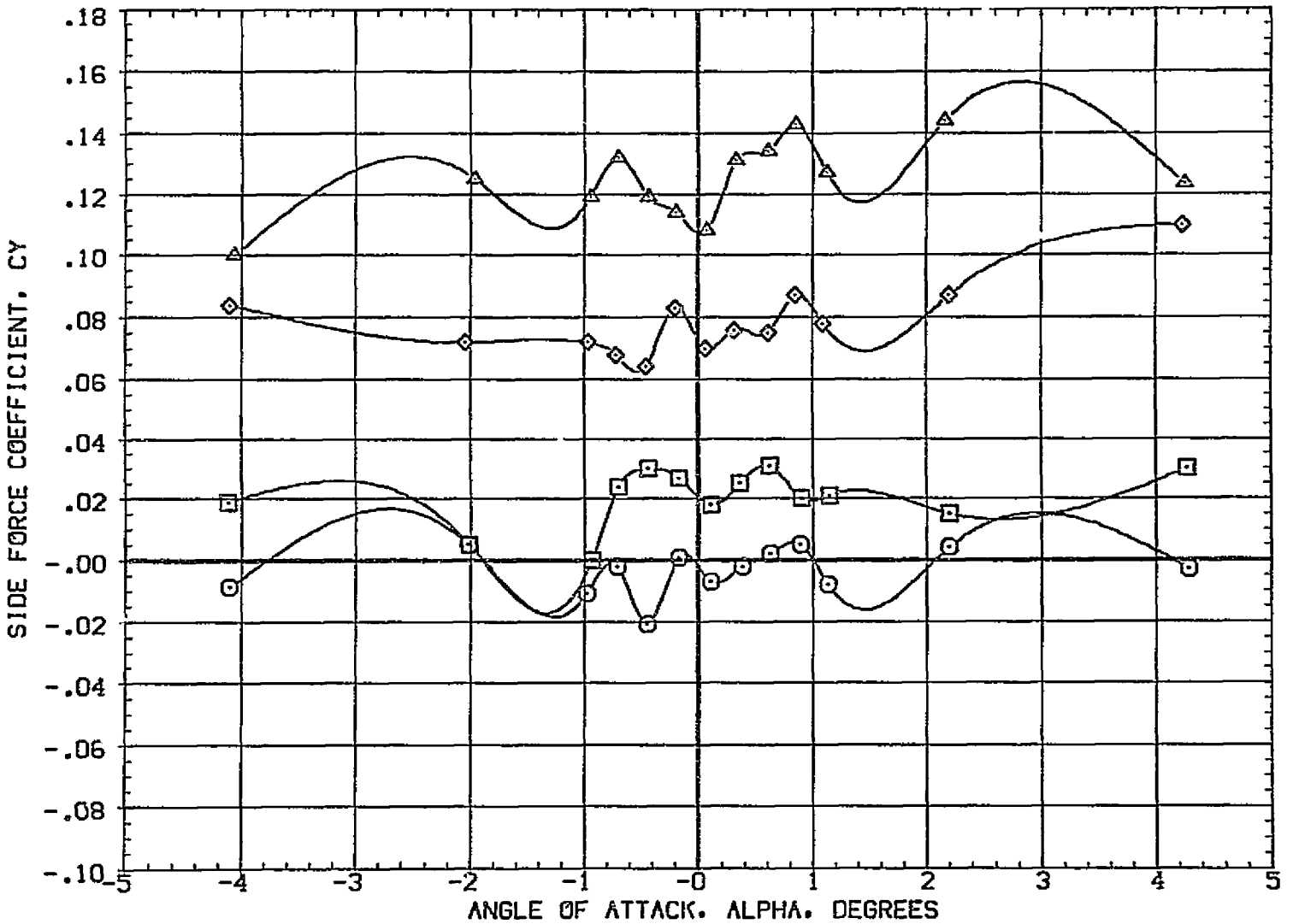
YAW MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1005)	○	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000
(BX1008)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



YAW MODULATION EFFECT

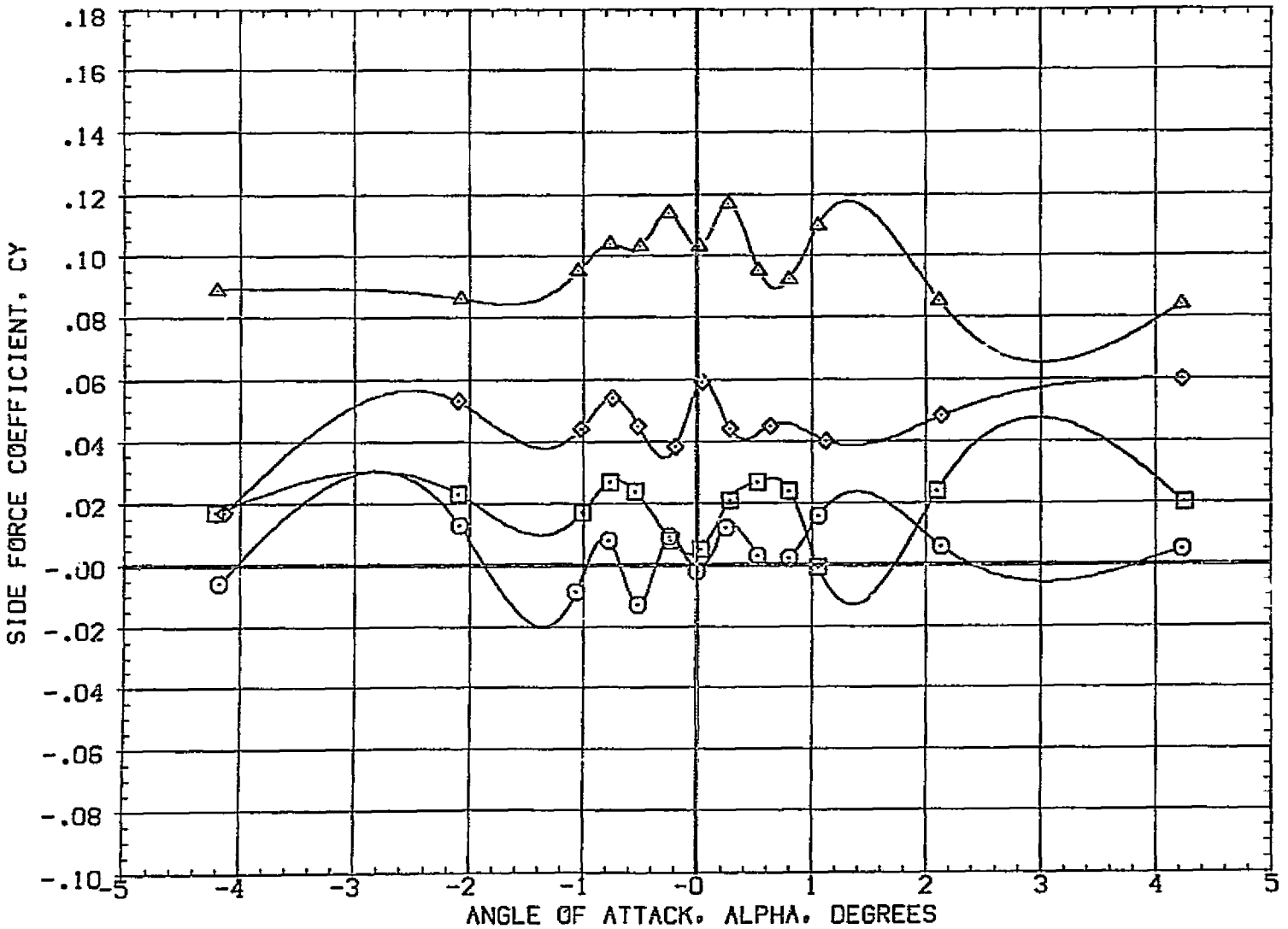
(B)MACH = 0.80

210<

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1005)	○	DCAT ARC 603/604 B2 F4 C
(BX1008)	□	DCAT ARC 603/604 B2 F4 C
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C
(BX1015)	△	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POW/PF
.000	100.000	.000	86.000
.000	100.000	40.000	86.000
.000	100.000	60.000	86.000
.000	100.000	100.000	86.000

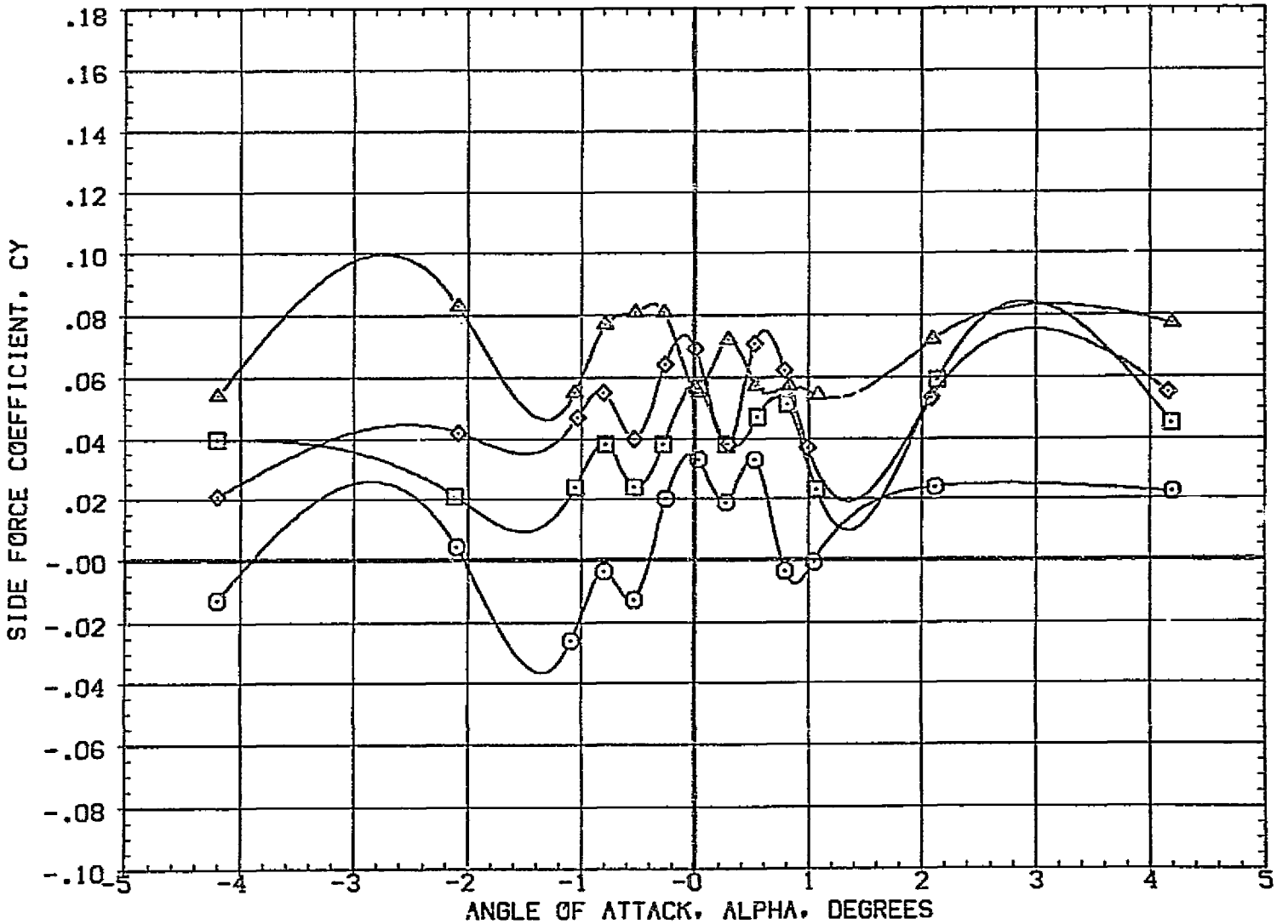
REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



YAW MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1005)	○	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000
(BX1008)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	66.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

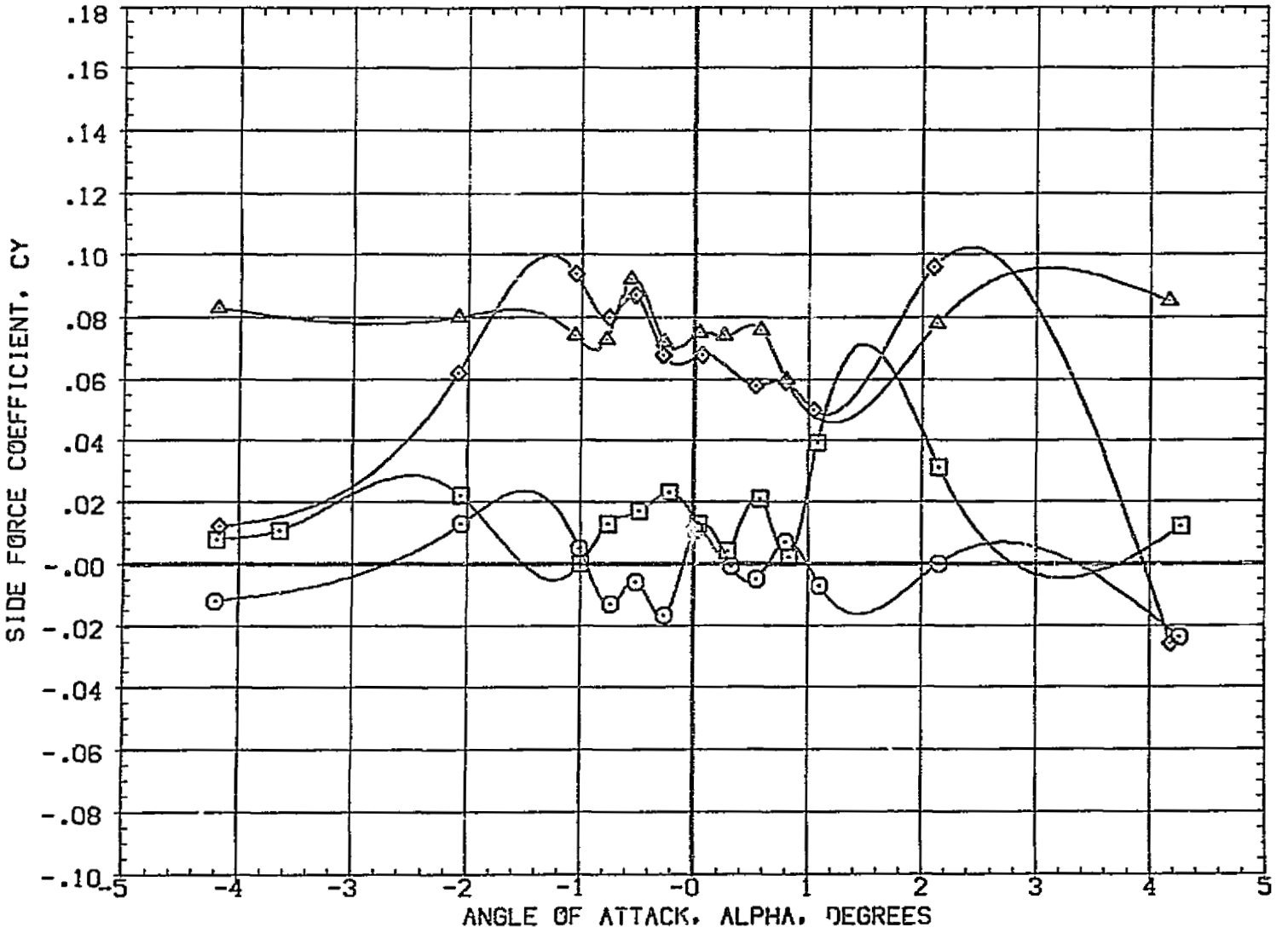


YAW MODULATION EFFECT

(D)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1005)	○	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	85.000
(BX1008)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	85.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	85.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

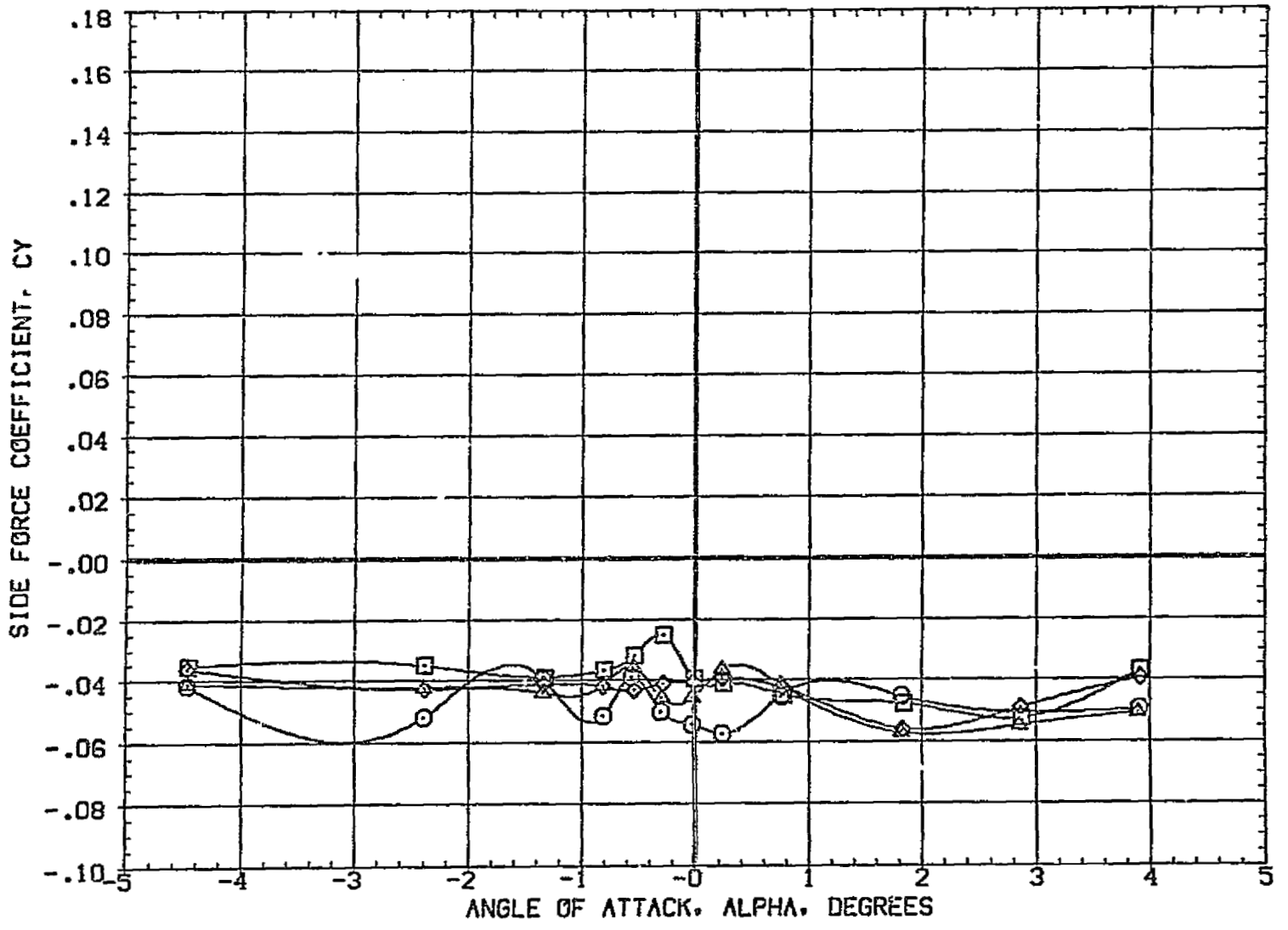


YAW MODULATION EFFECT

(E)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1005)	□	DCAT ARC 603/604 82 F4 C	.000	100.000	.000	86.000
(BX1008)	◇	DCAT ARC 603/604 82 F4 C	.000	100.000	40.000	86.000
(BX1011)	◇	DCAT ARC 603/604 82 F4 C	.000	100.000	60.000	86.000
(BX1015)	△	DCAT ARC 603/604 92 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



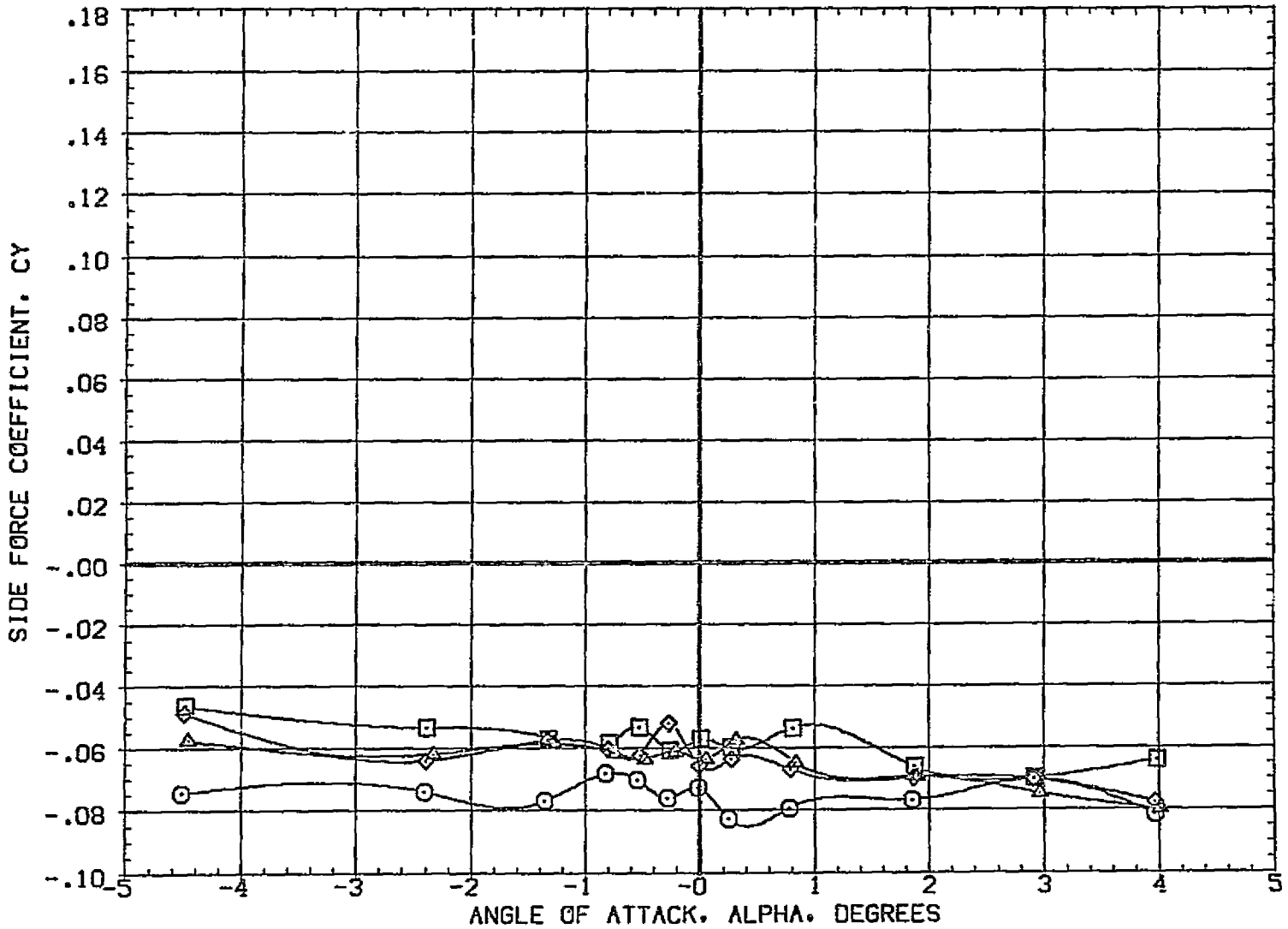
YAW MODULATION EFFECT

(F)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	PDJ/PF
(BX1005)	○	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	86.000
(BX1008)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	40.000	86.000
(BX1011)	◇	DCAT ARC 603/604 B2 F4 C	.000	100.000	60.000	86.000
(BX1015)	△	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



YAW MODULATION EFFECT

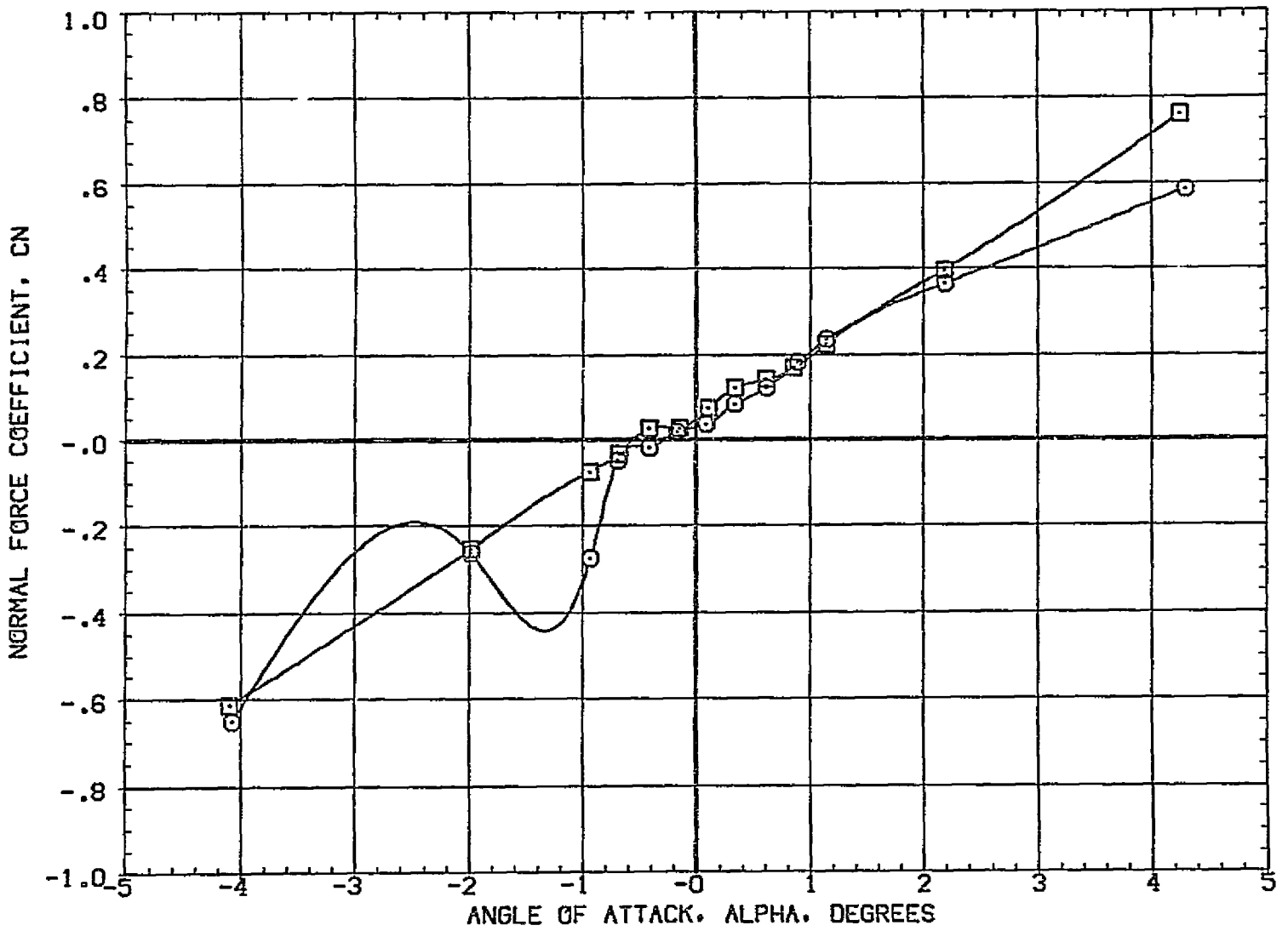
(G)MACH = 1.80

215<

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BX1019)	○	DCAT ARC 603/604 B2 F4 C
(BX1020)	□	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	130.000
.000	100.000	.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



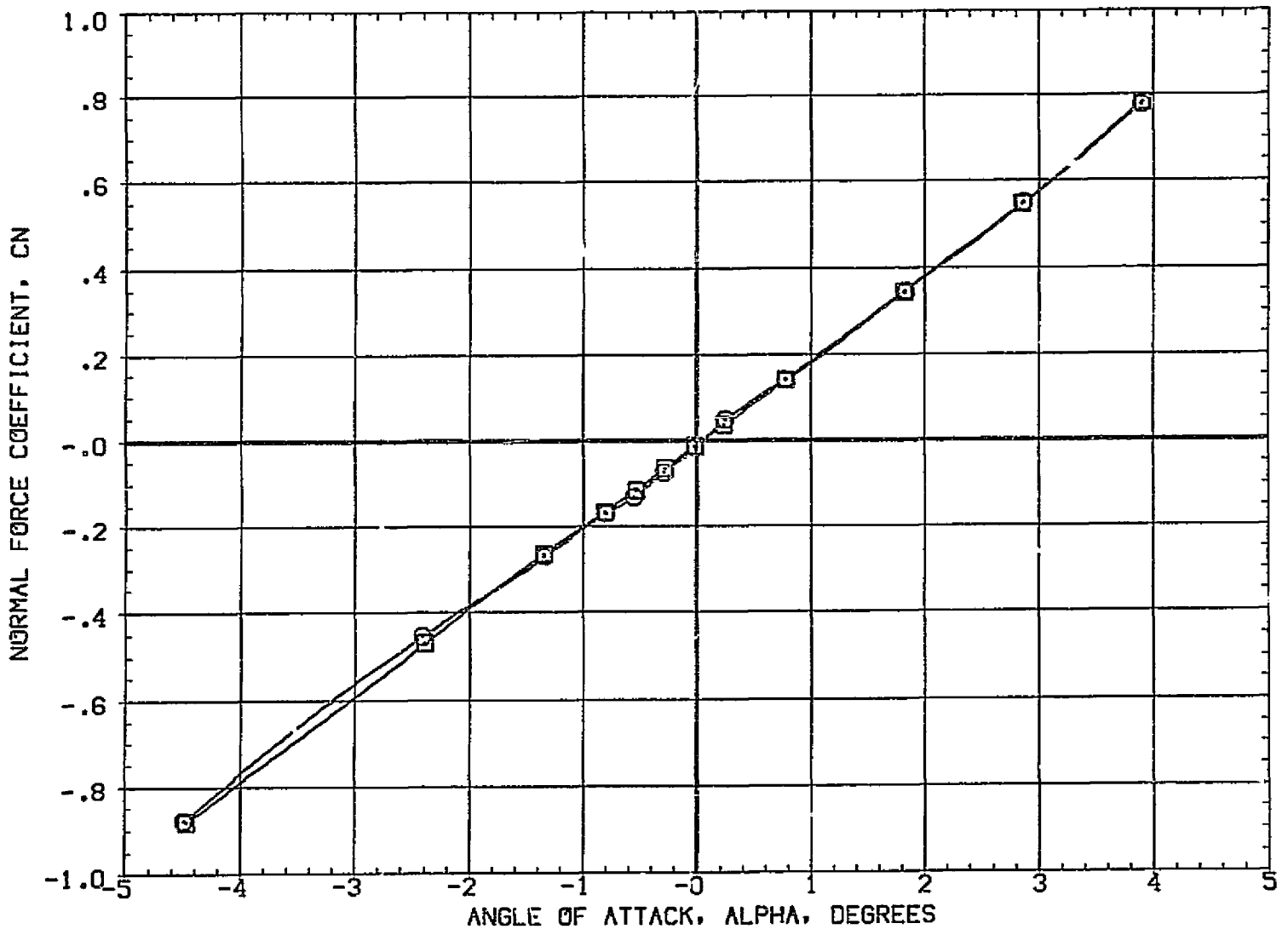
PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(A)MACH = 0.64

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BX1019)	○	DCAT ARC 603/604 B2 F4 C
(BX1020)	□	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	130.000
.000	100.000	.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



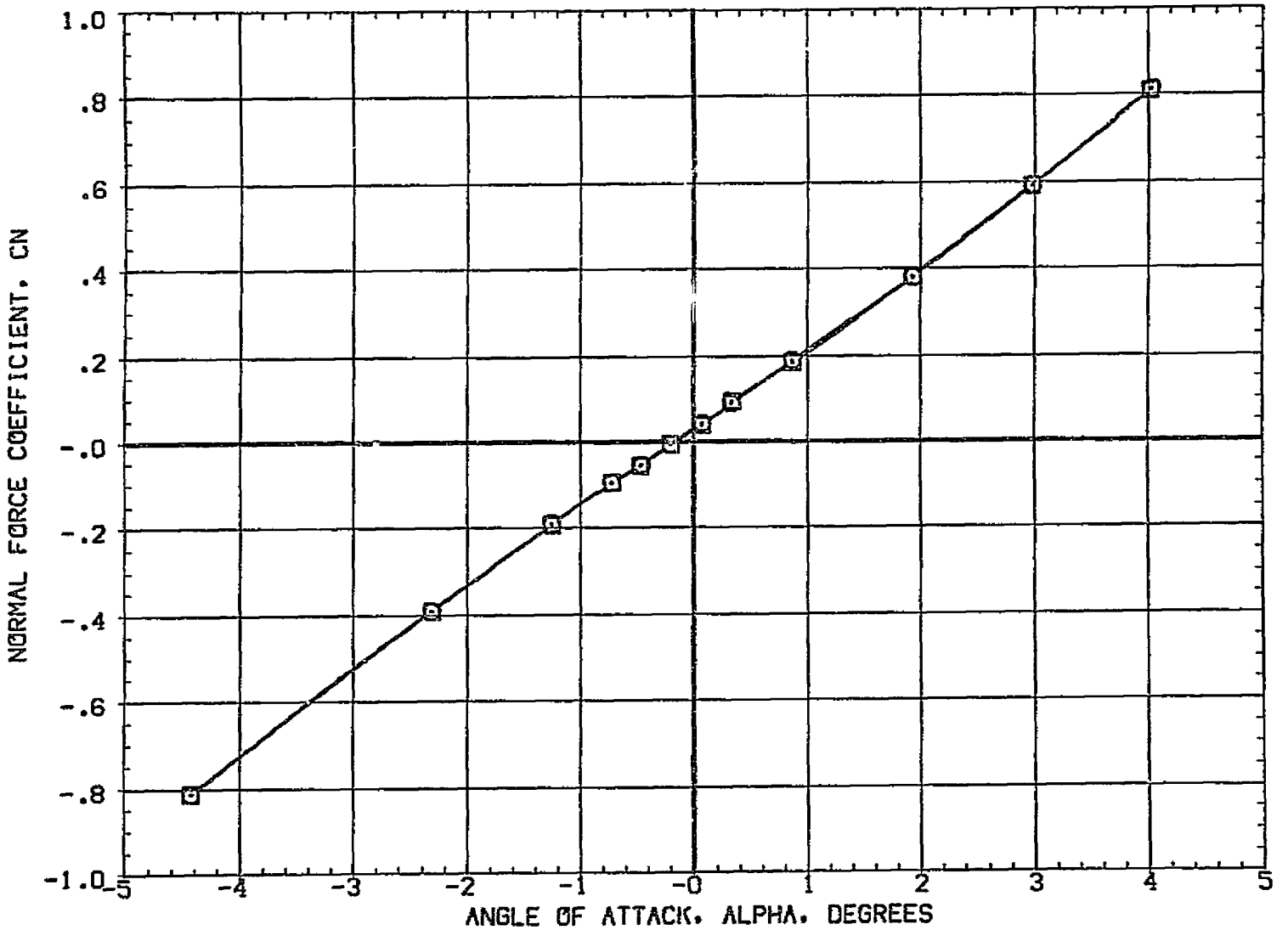
PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(B)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1019)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	130.000
(BX1020)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	130.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



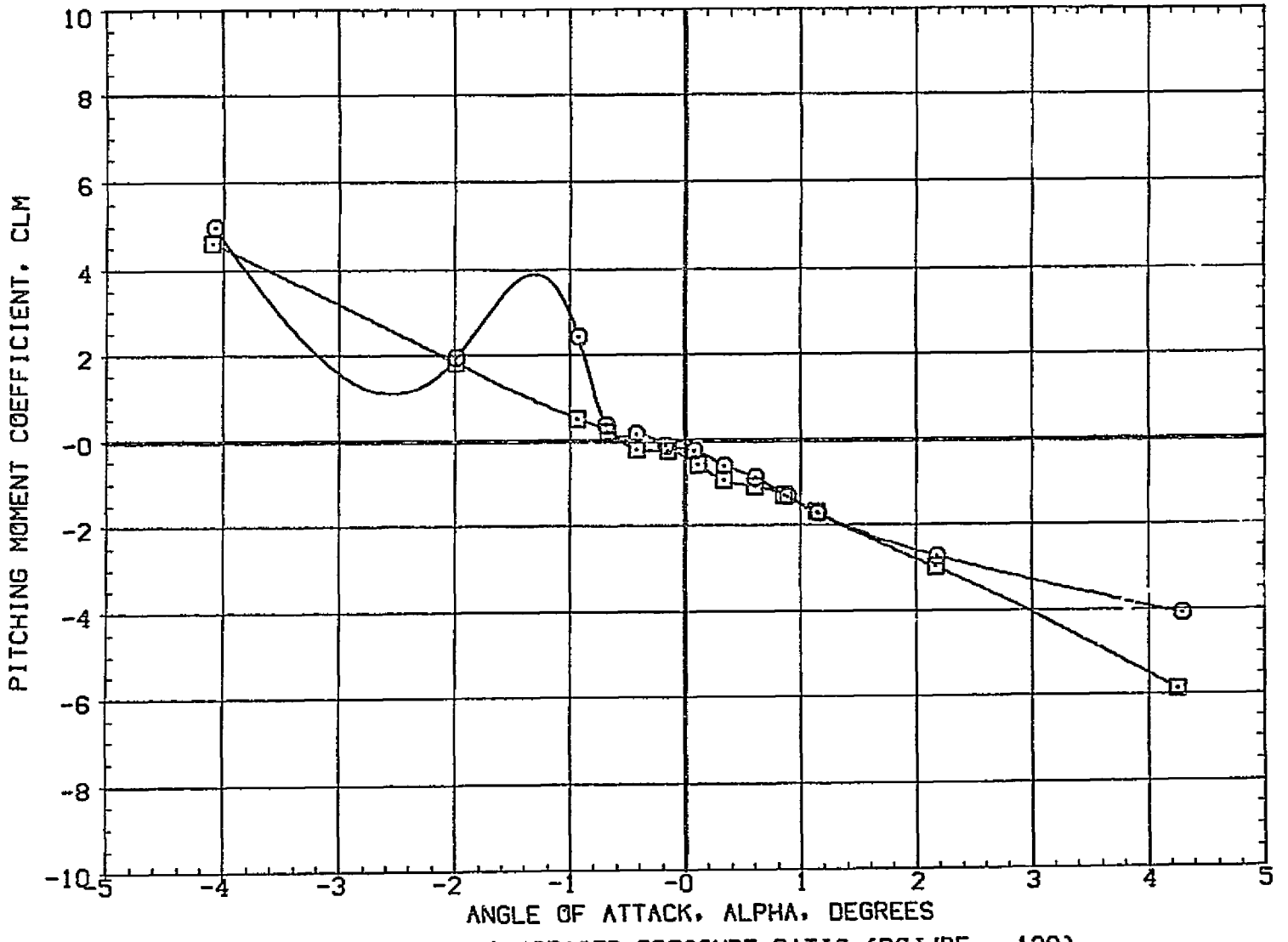
PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(C)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1019)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	130.000
(BX1020)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	130.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



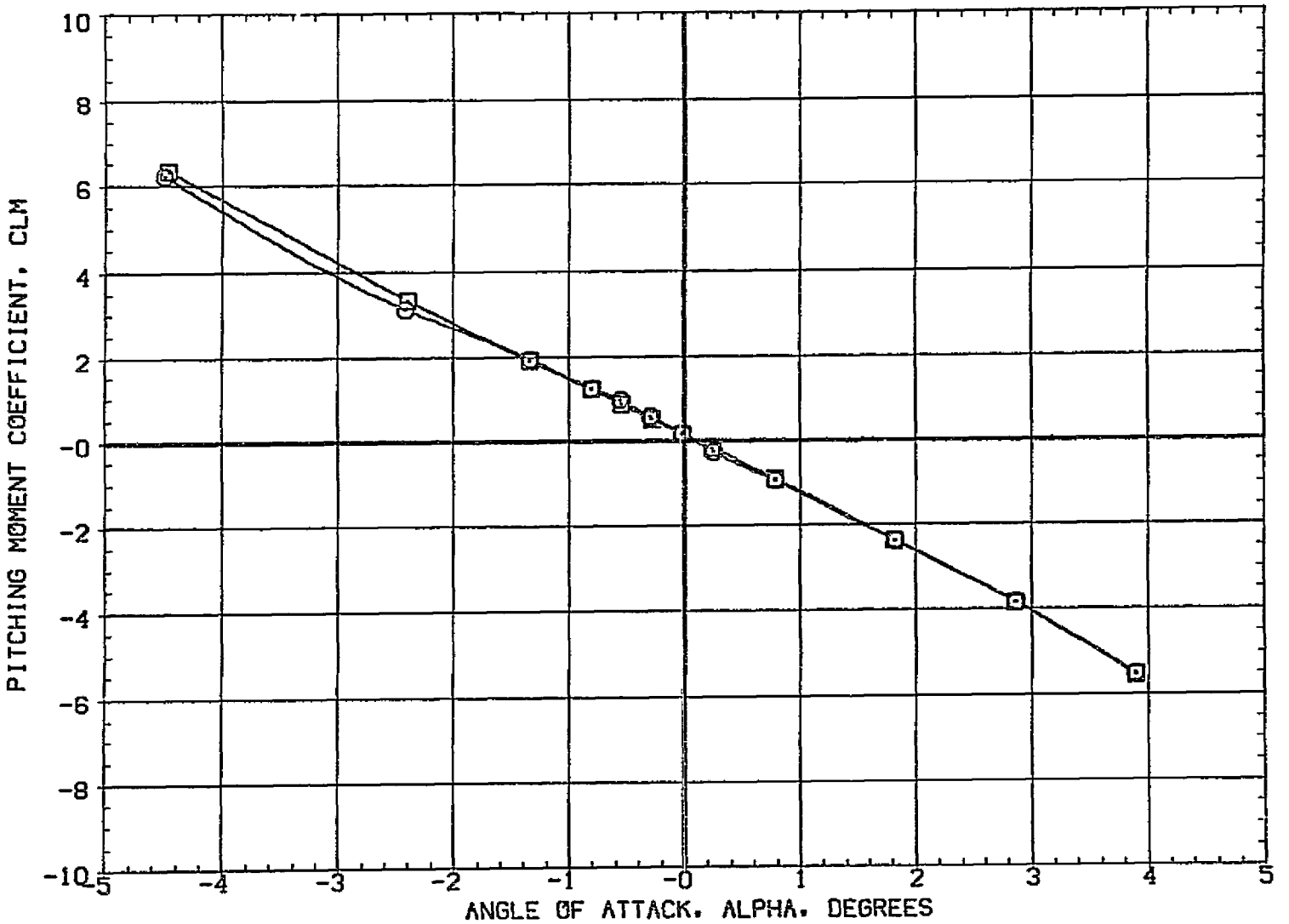
PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(A)MACH = 0.64

219<

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1019)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	130.000
(BX1020)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

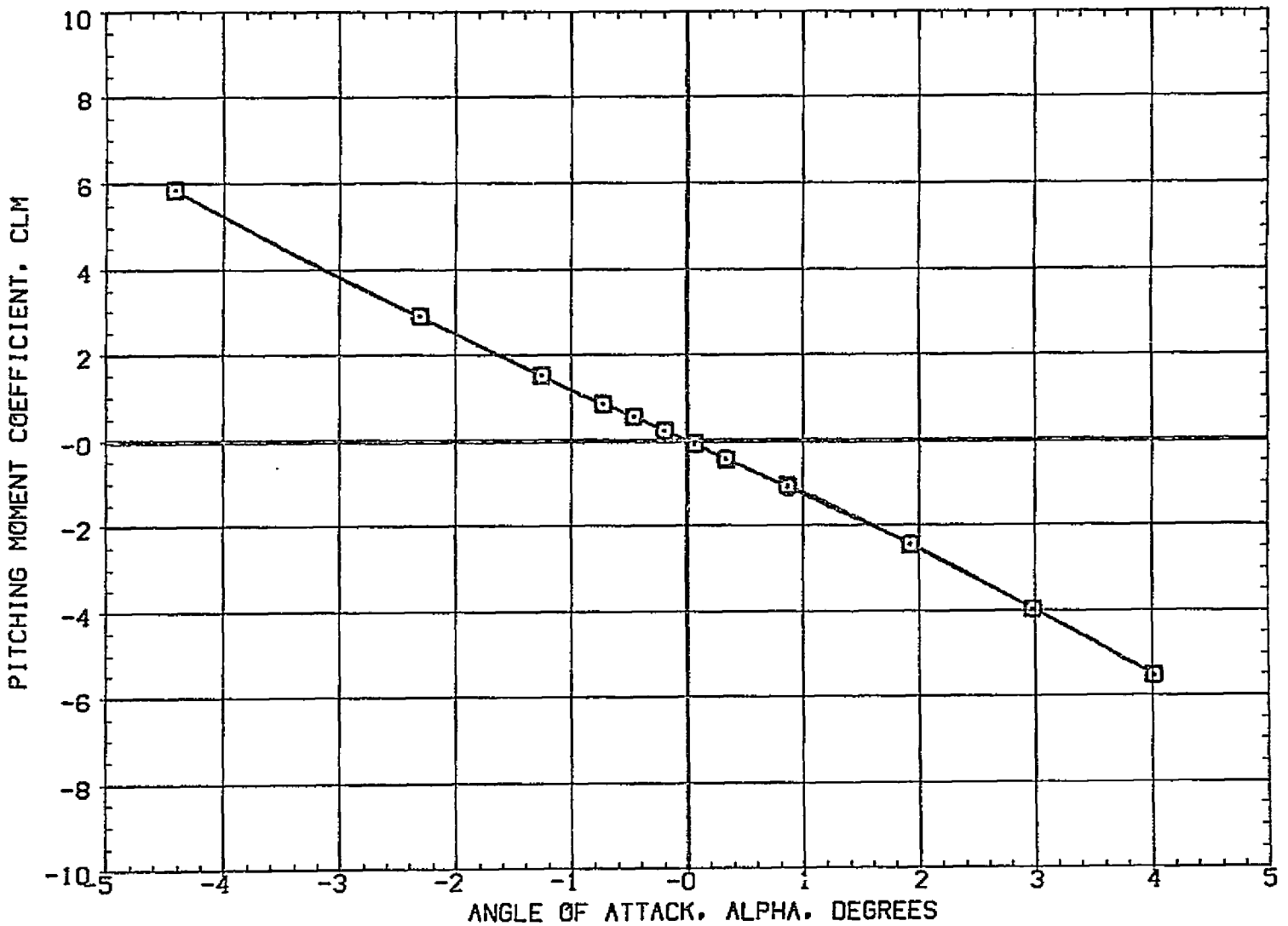


PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(B)MACH = 1.56

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1019)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	130.000
(BX1020)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

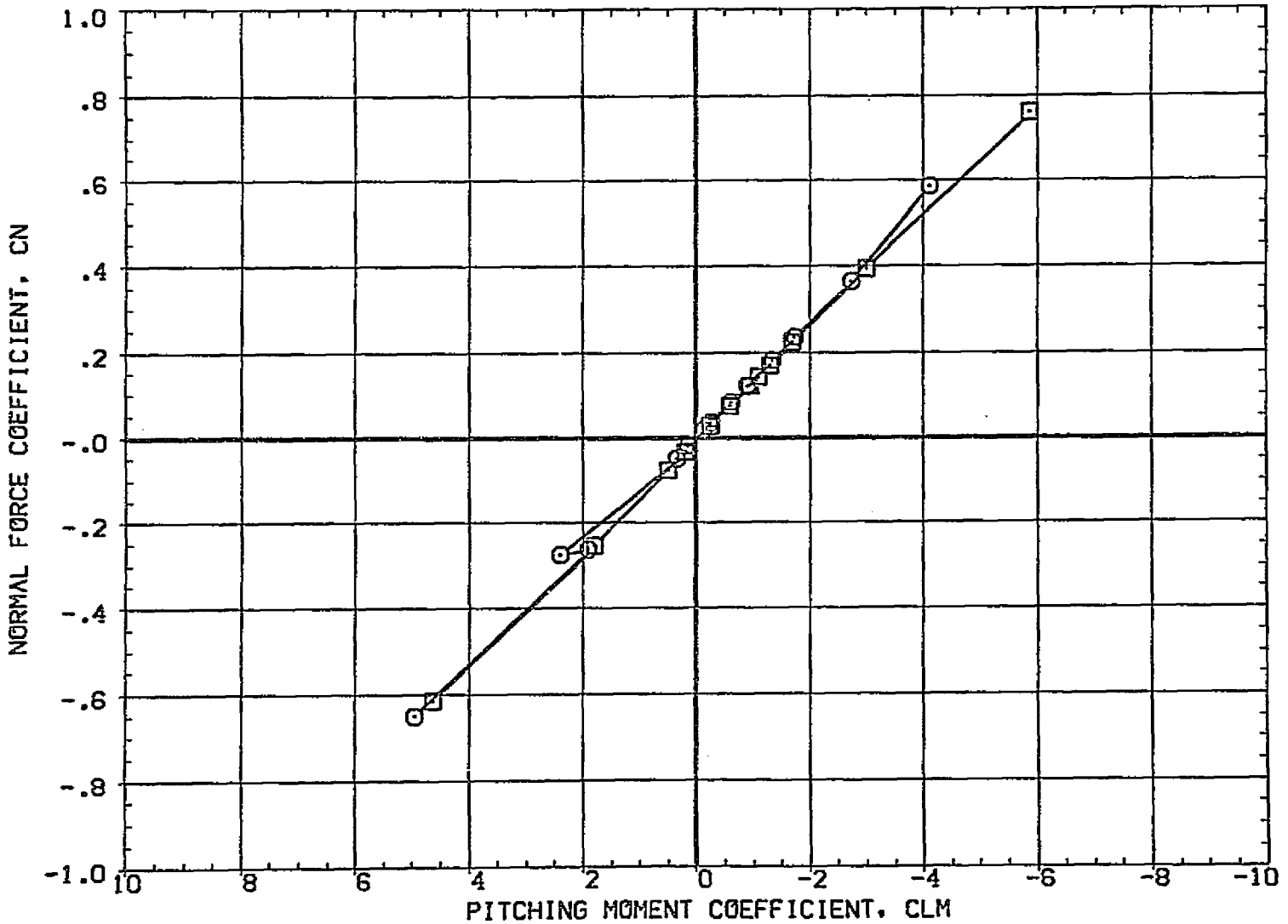


PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(C)MACH = 1.80

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1019)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	130.000
(BX1020)	□	OCAT ARC 603/604 B2 F4 C	.000	100.000	.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

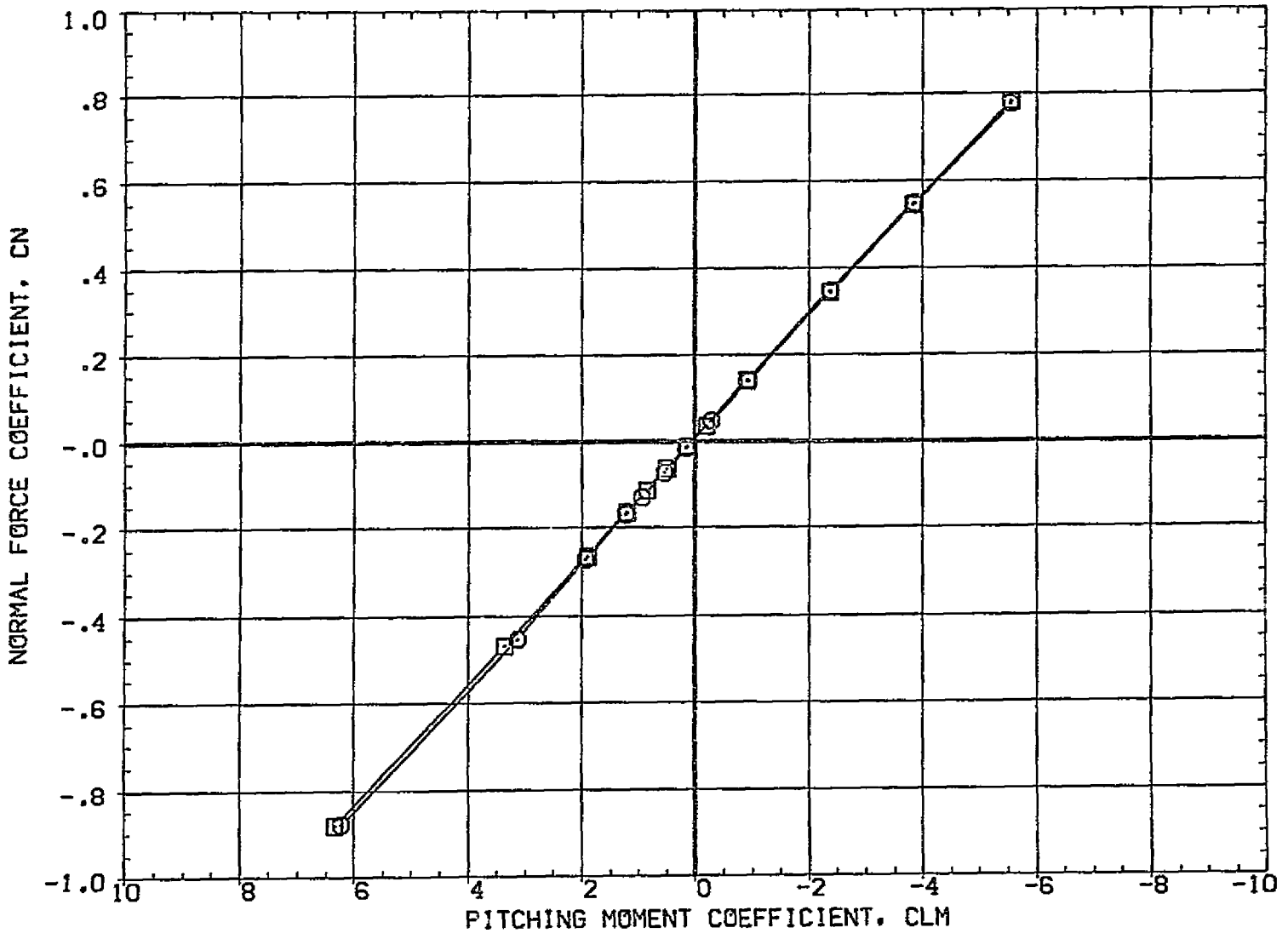
(A)MACH = 0.64

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(BX1019) DCAT ARC 603/604 B2 F4 C
(BX1020) DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	130.000
.000	100.000	.000	130.000

REFERENCE INFORMATION

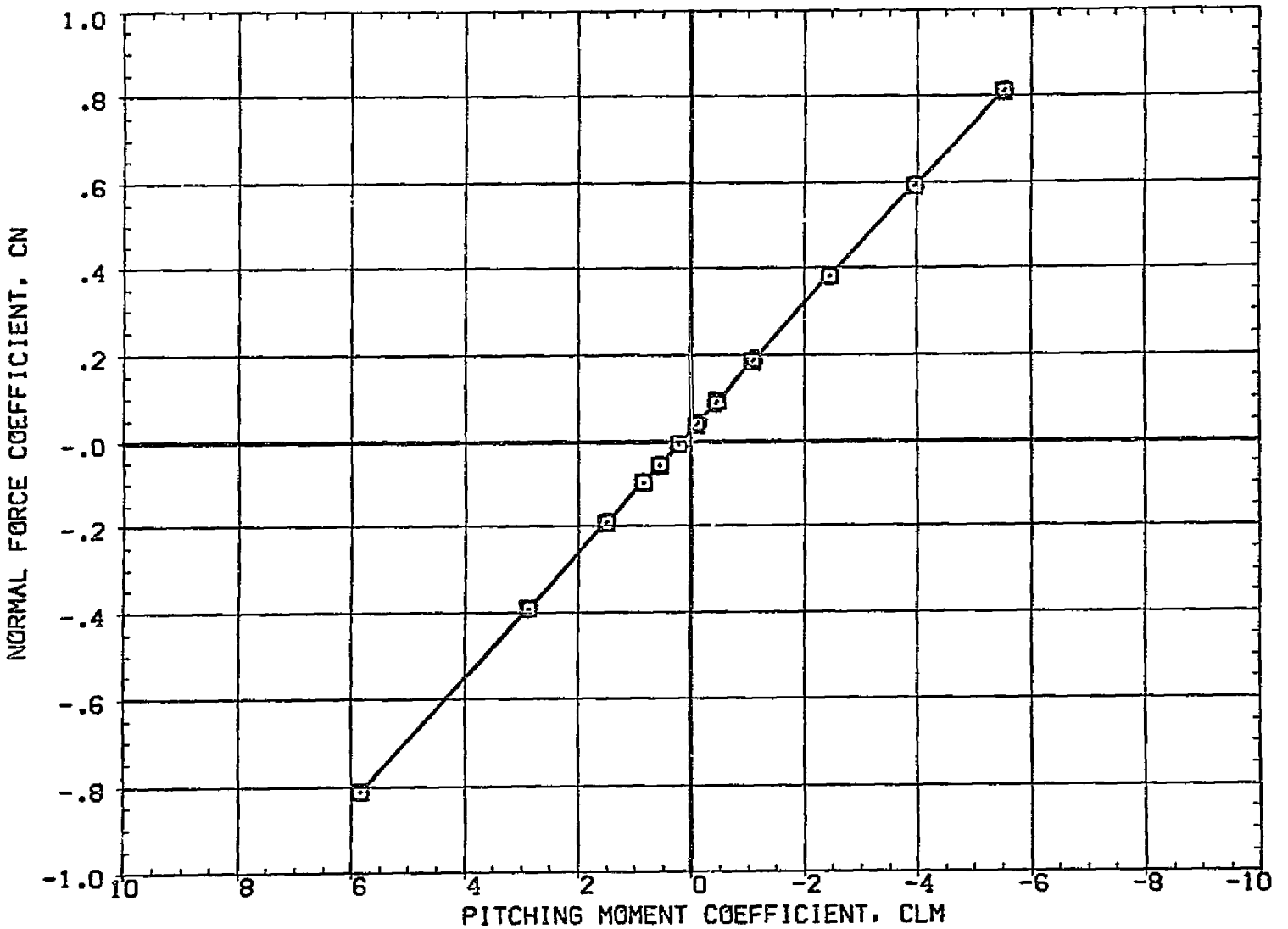
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

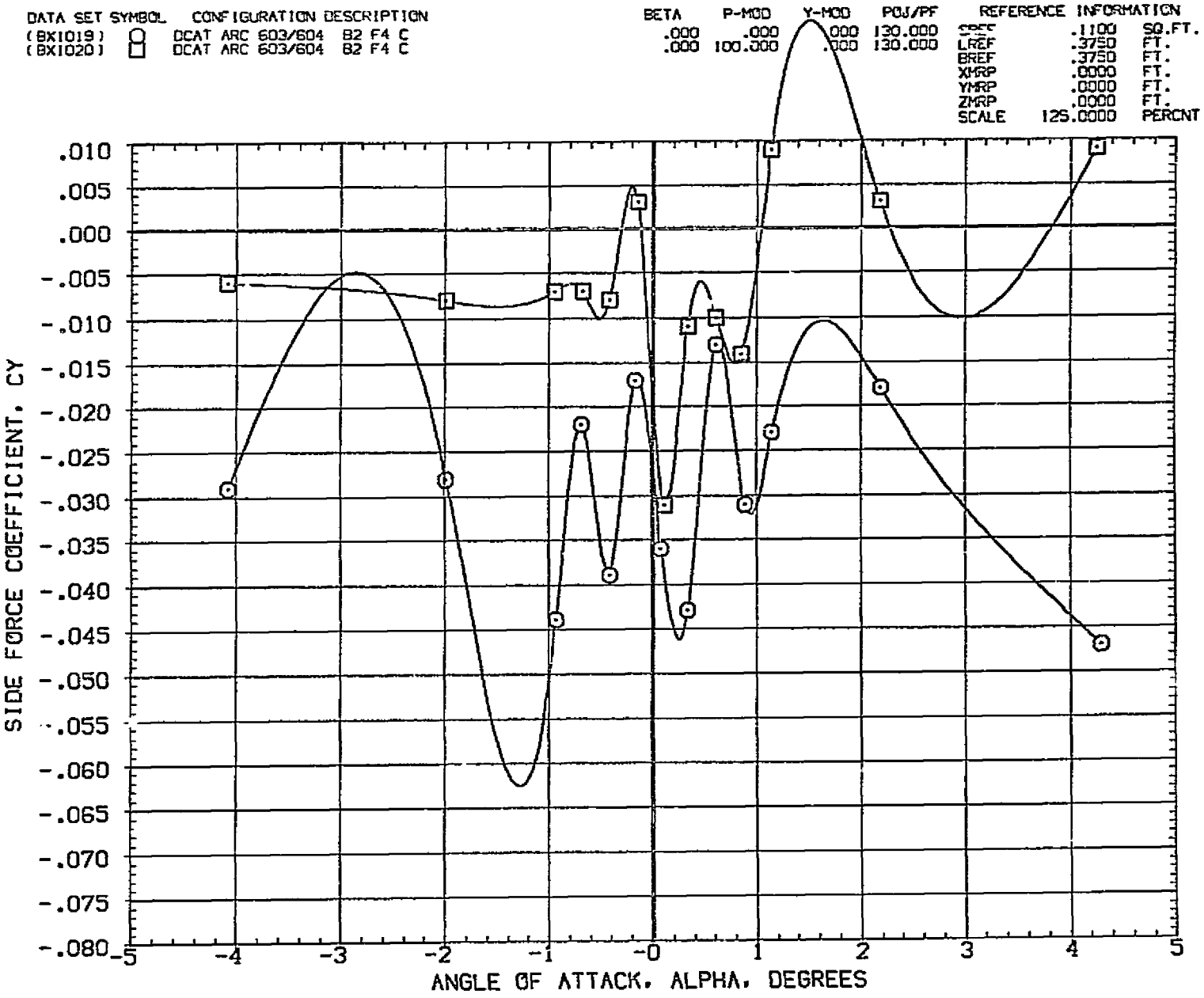
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1019)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	130.000
(BX1020)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

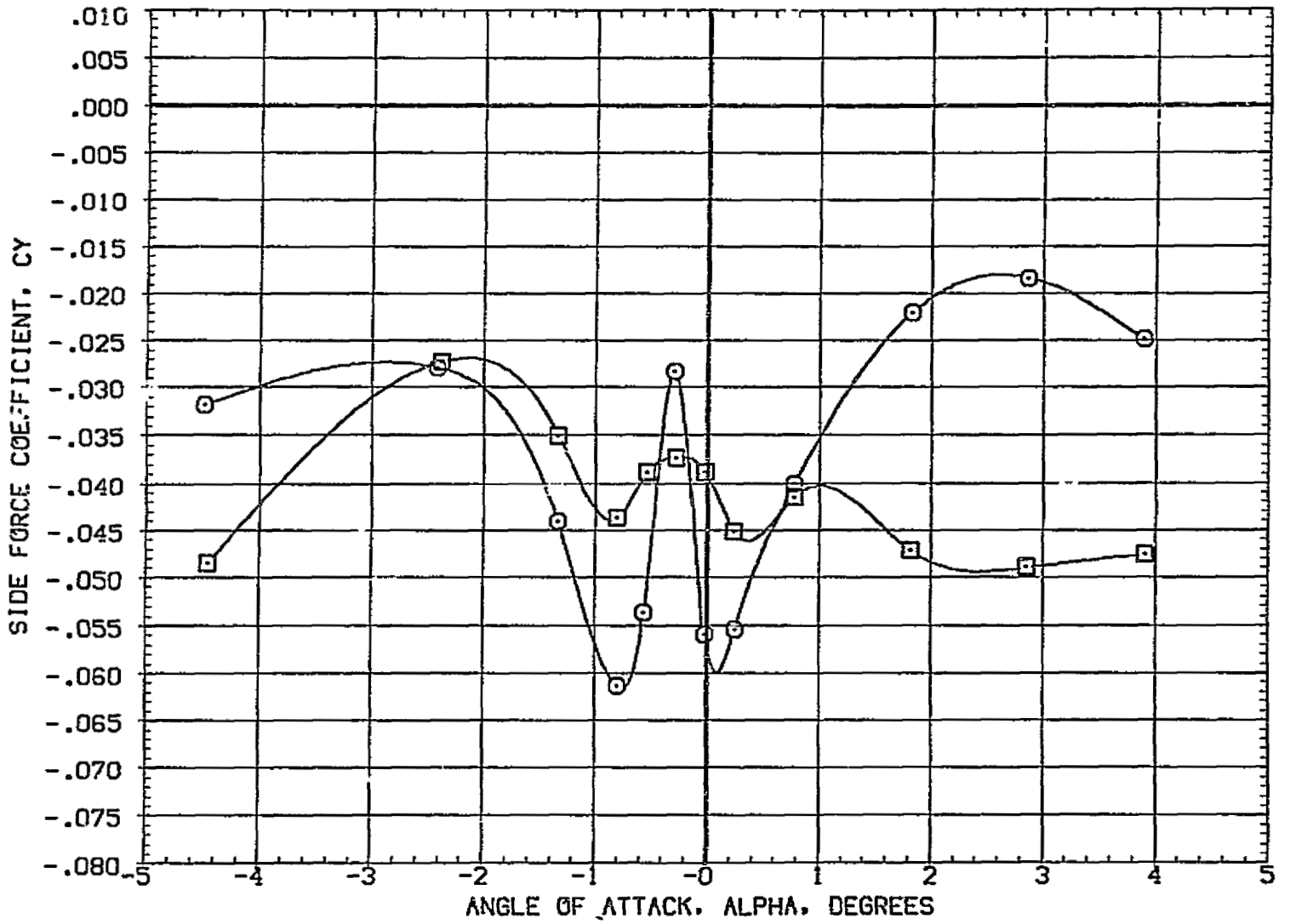
(C)MACH = 1.80



PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1019)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	.000	130.000
(BX1020)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

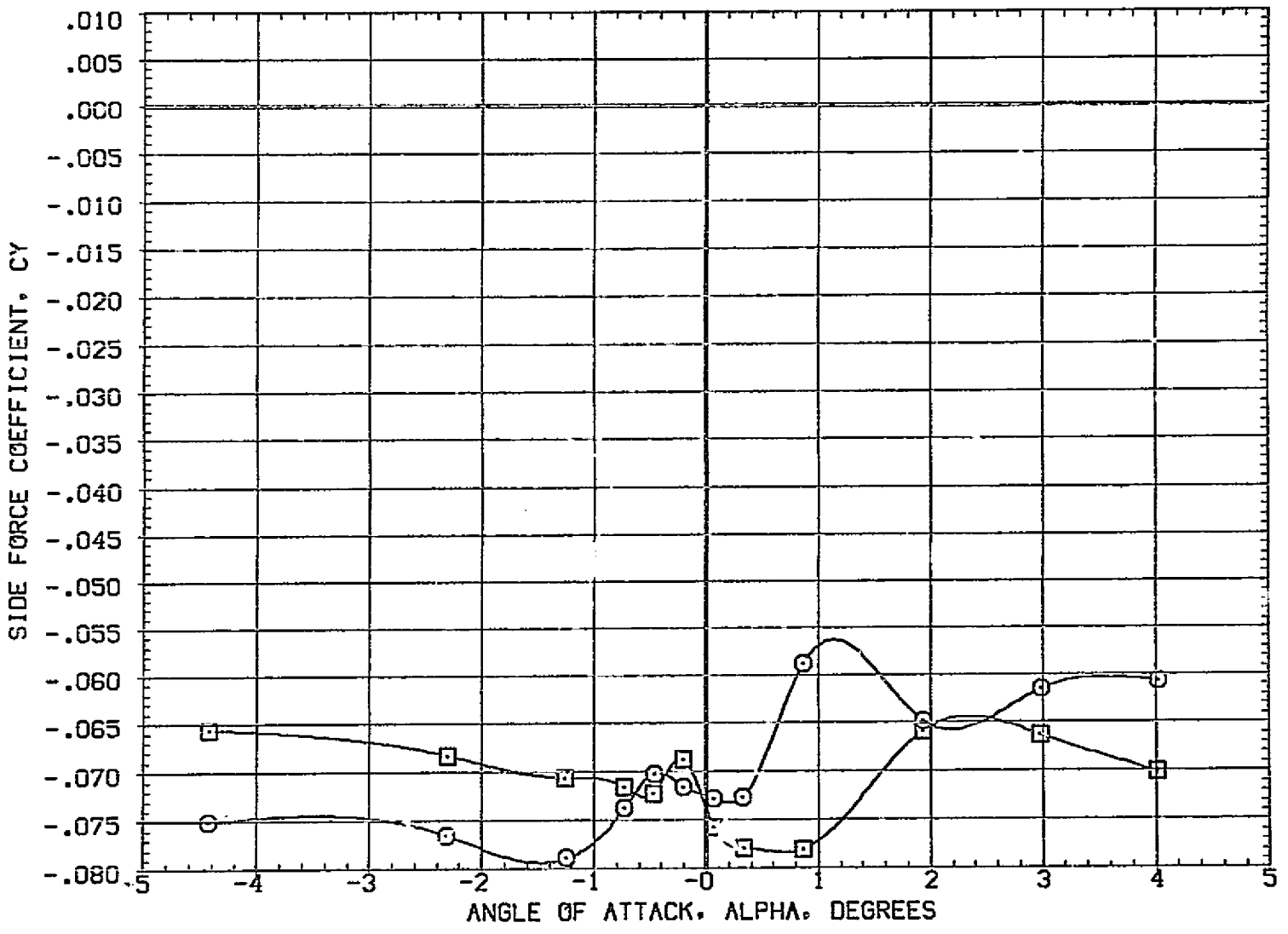


PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(B)MACH = 1.56

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1019)	□	OCAT ARC 603/604 B2 F4 C	.000	.000	.000	130.000
(BX1020)	□	OCAT ARC 603/604 B2 F4 C	.000	100.000	.000	130.000

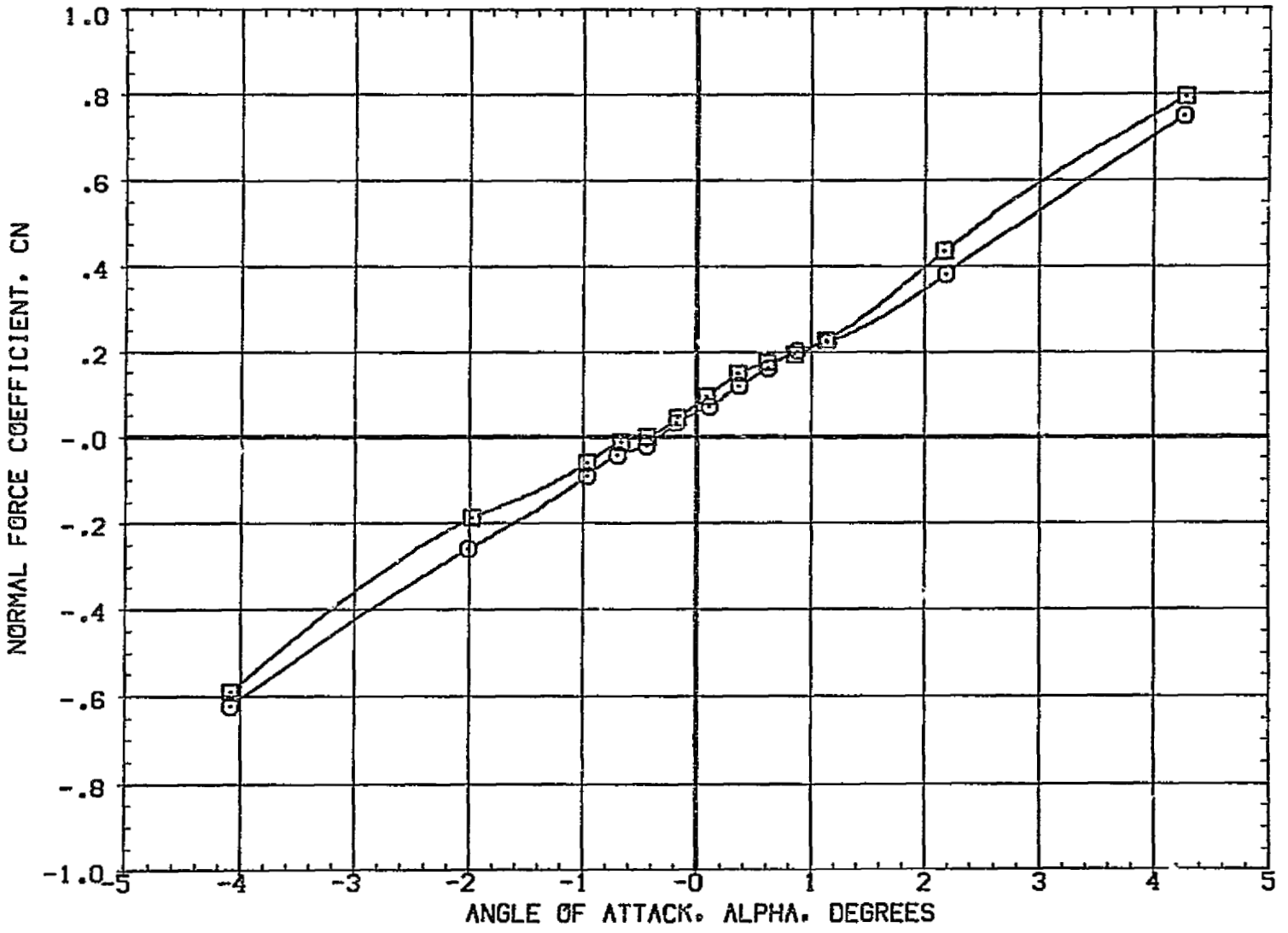
REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1022)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	130.000
(BX1023)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



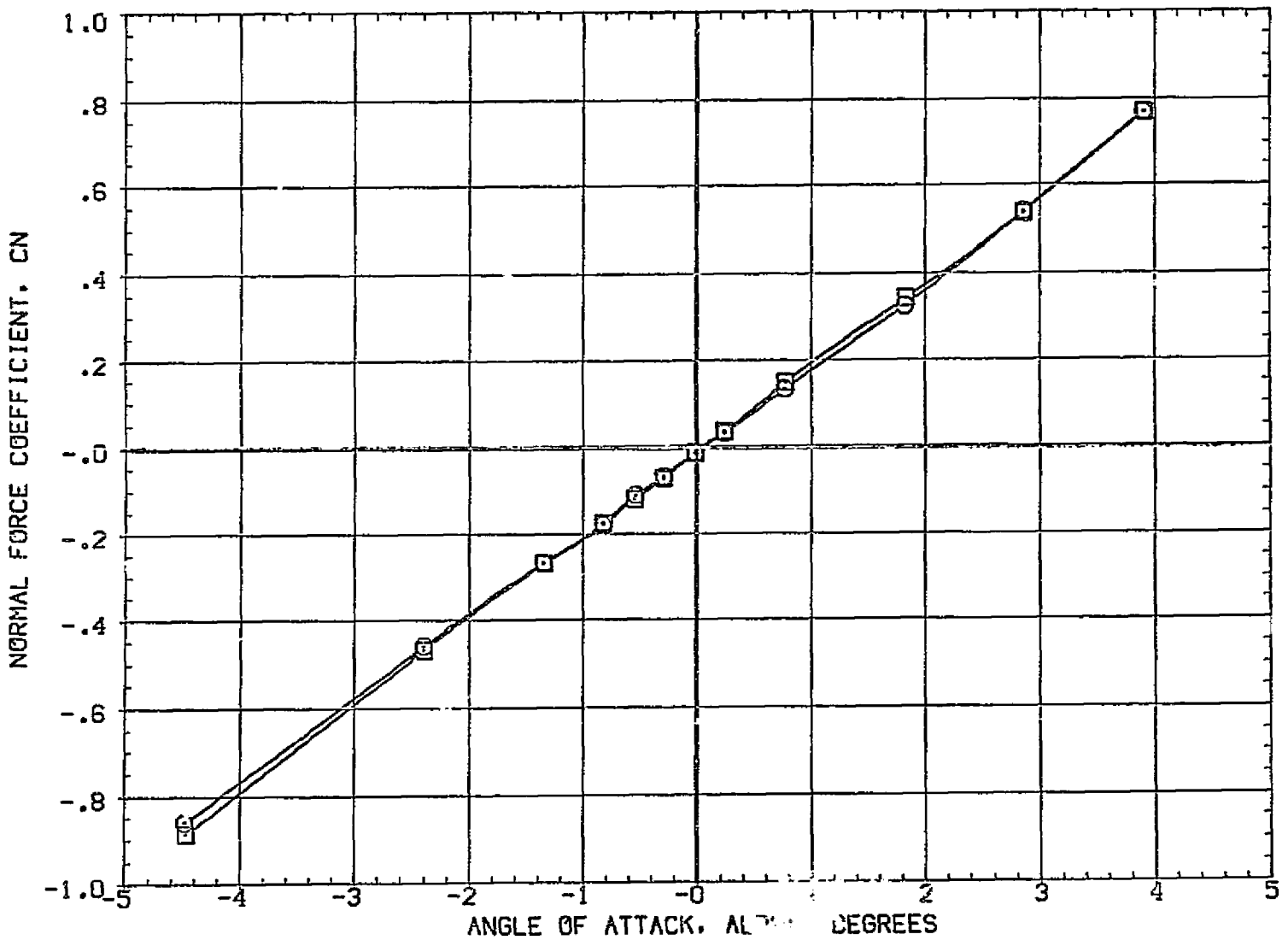
YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(A)MACH = 0.64

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BX1022)	○	DCAT ARC 603/604 B2 F4 C
(BX1023)	□	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	130.000
.000	100.000	100.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

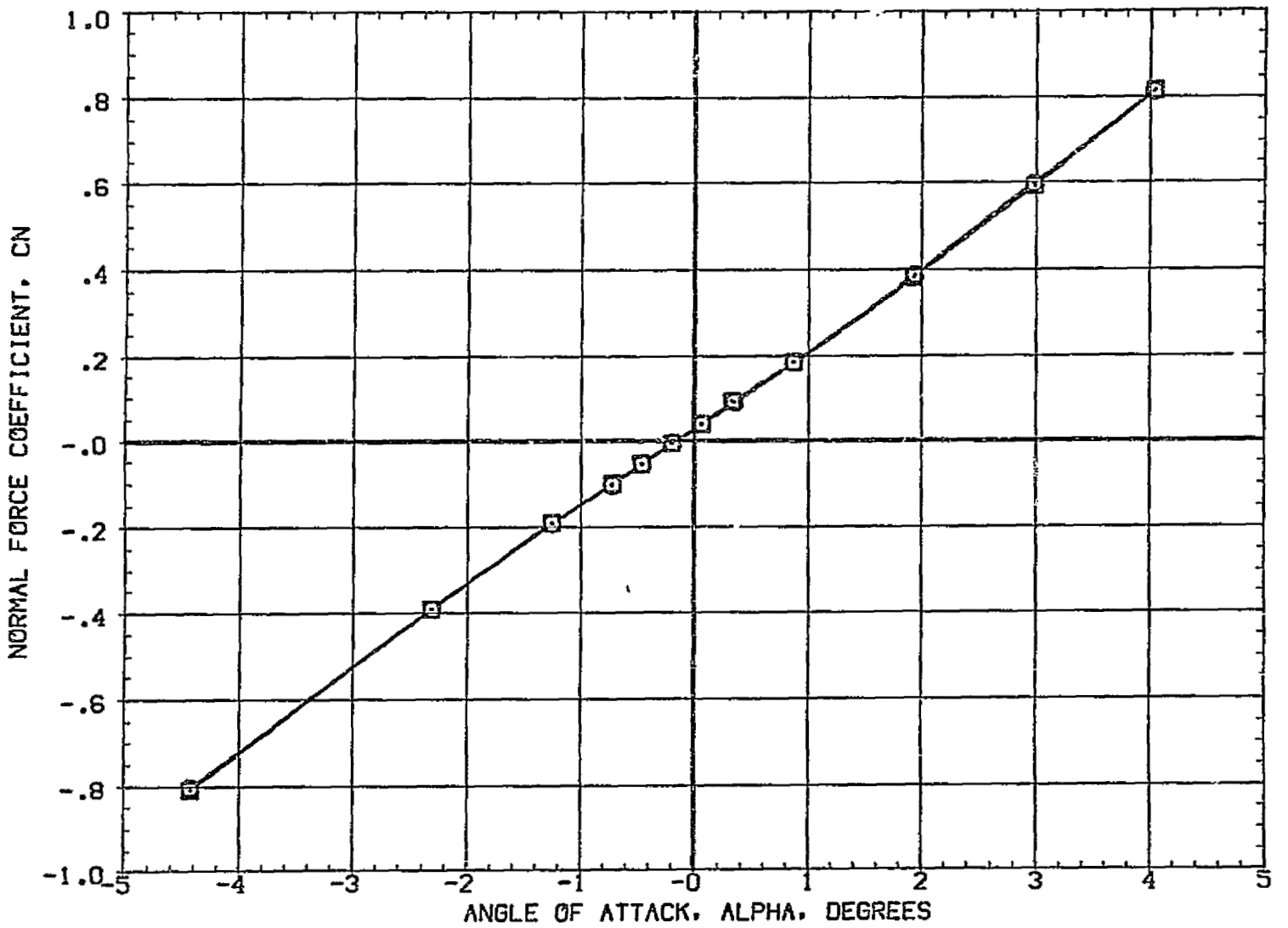


YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(B)MACH = 1.56

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1022)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	130.000
(BX1023)	□	OCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

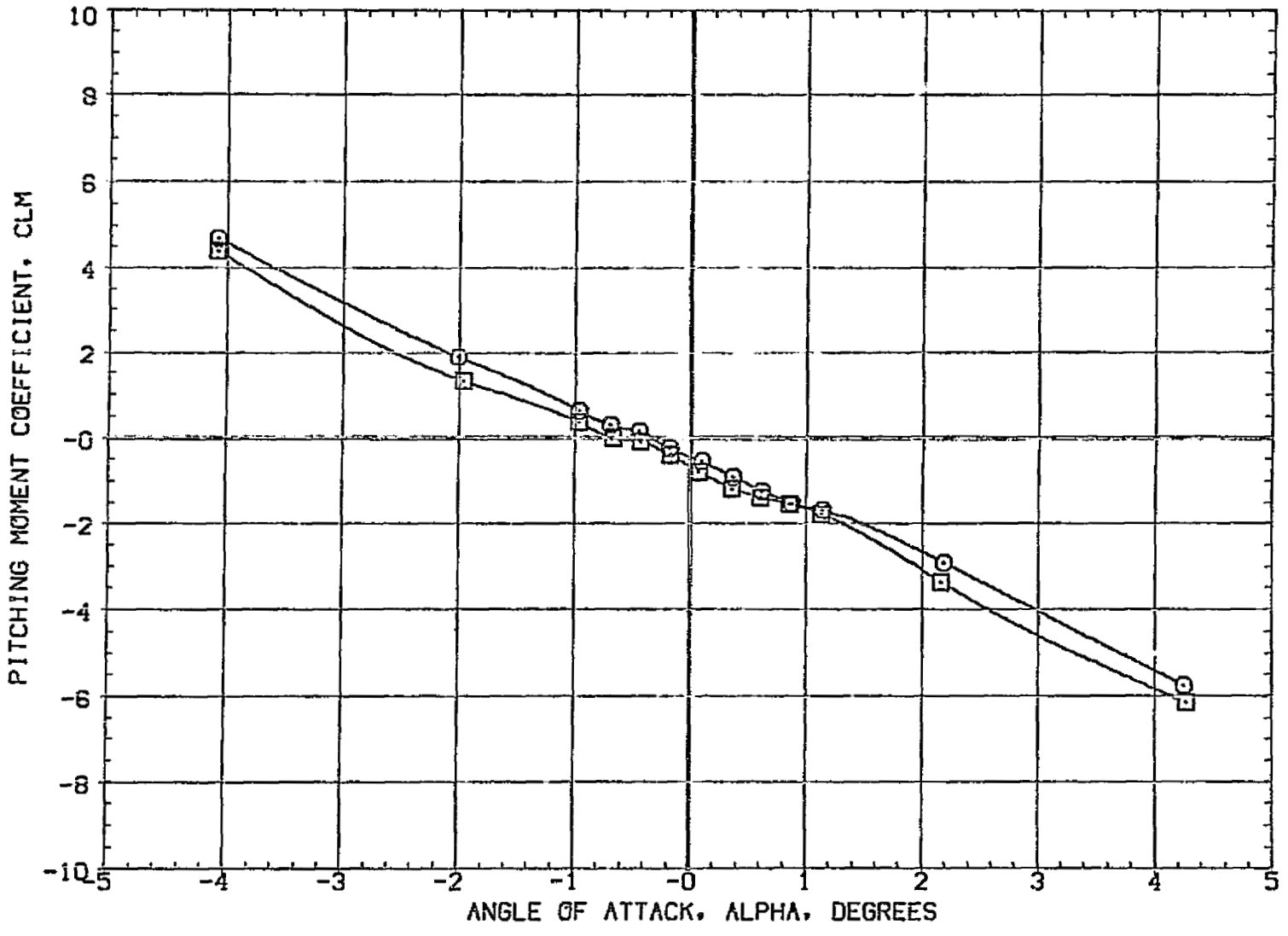


YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(C)MACH = 1.80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1022)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	130.000
(BX1023)	□	OCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



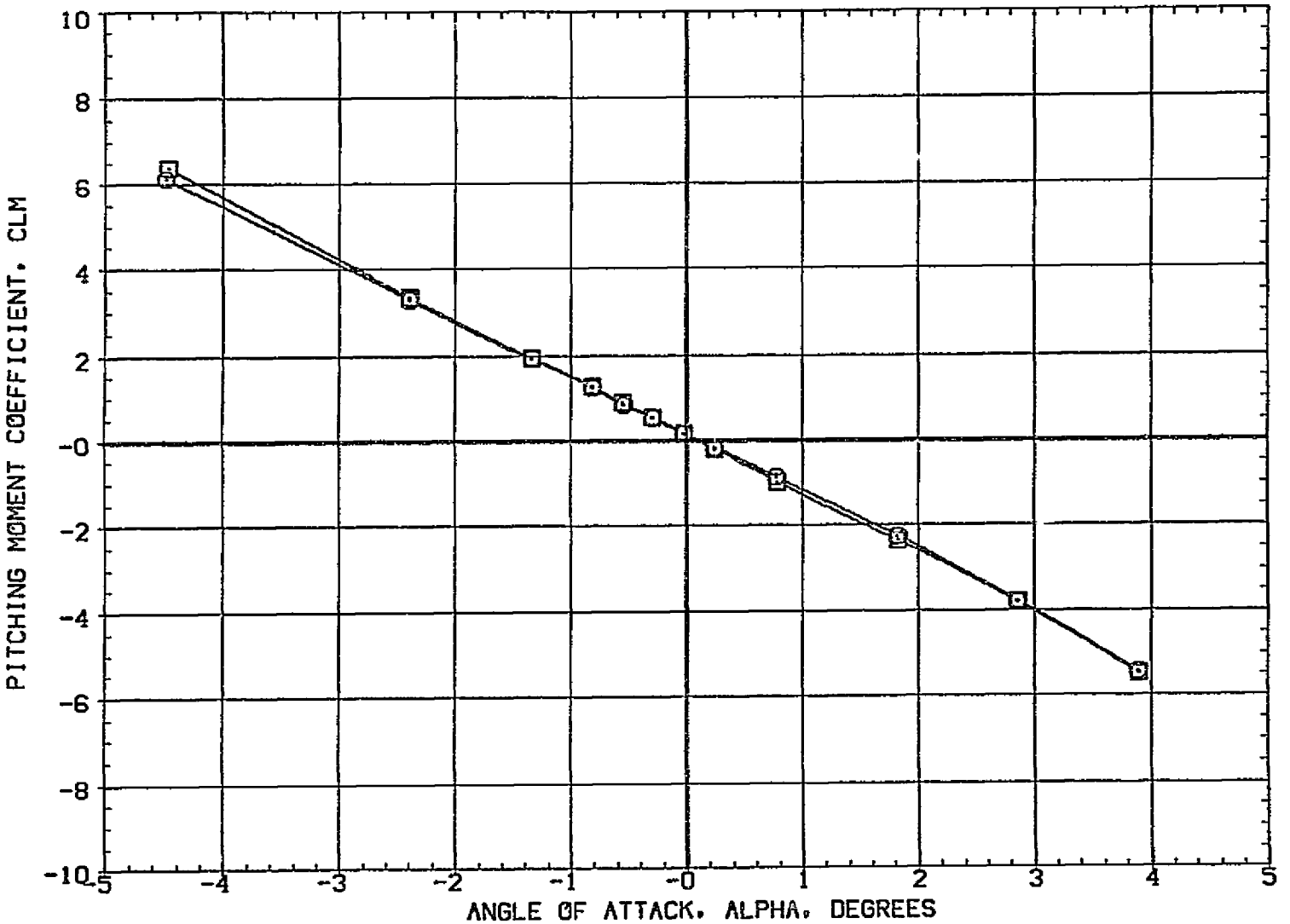
YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(A)MACH = 0.64

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BX1022)	○	DCAT ARC 603/604 B2 F4 C
(BX1023)	□	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	130.000
.000	100.000	100.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

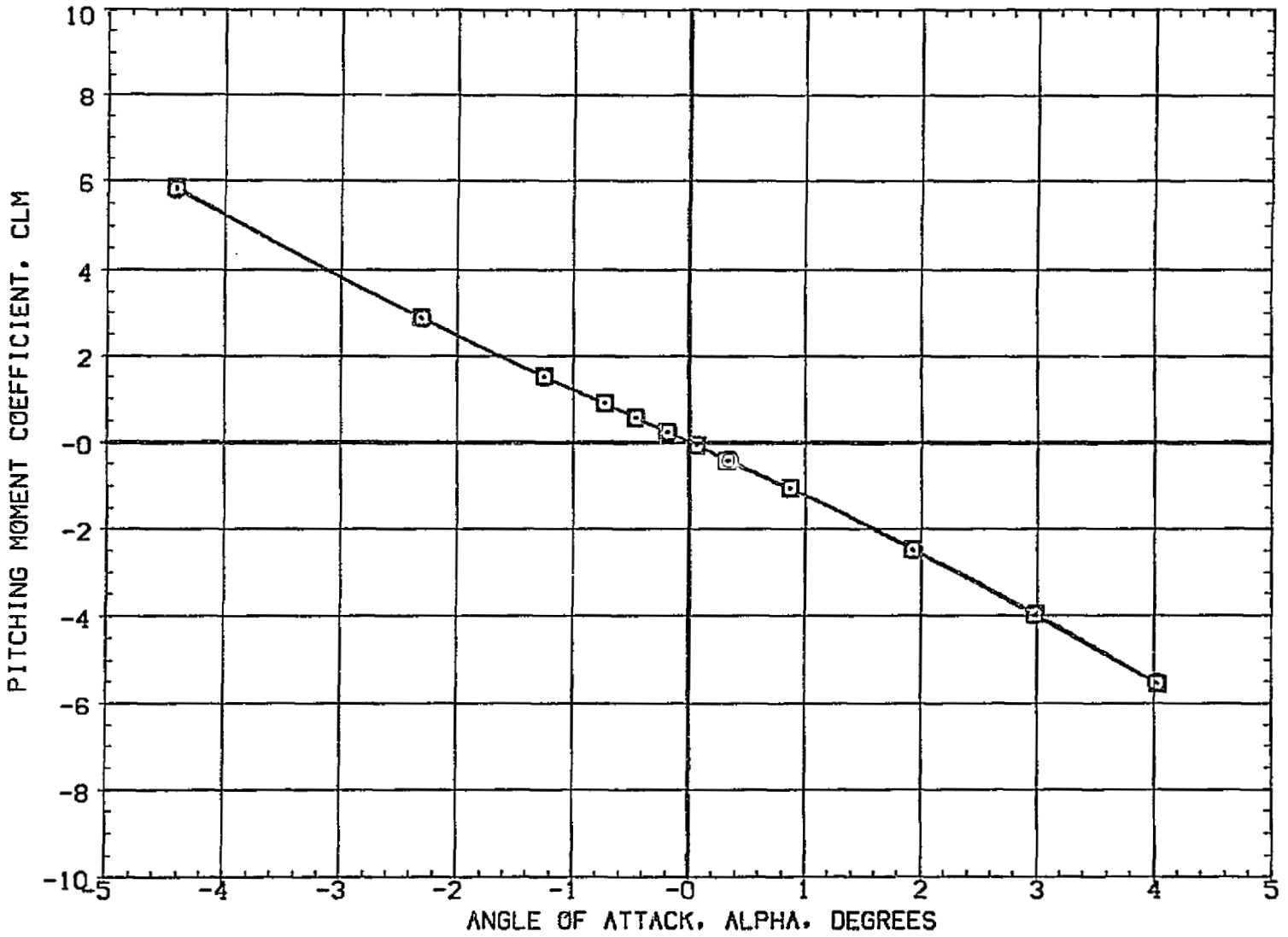


YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(B)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1022)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	130.000
(BX1023)	□	OCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

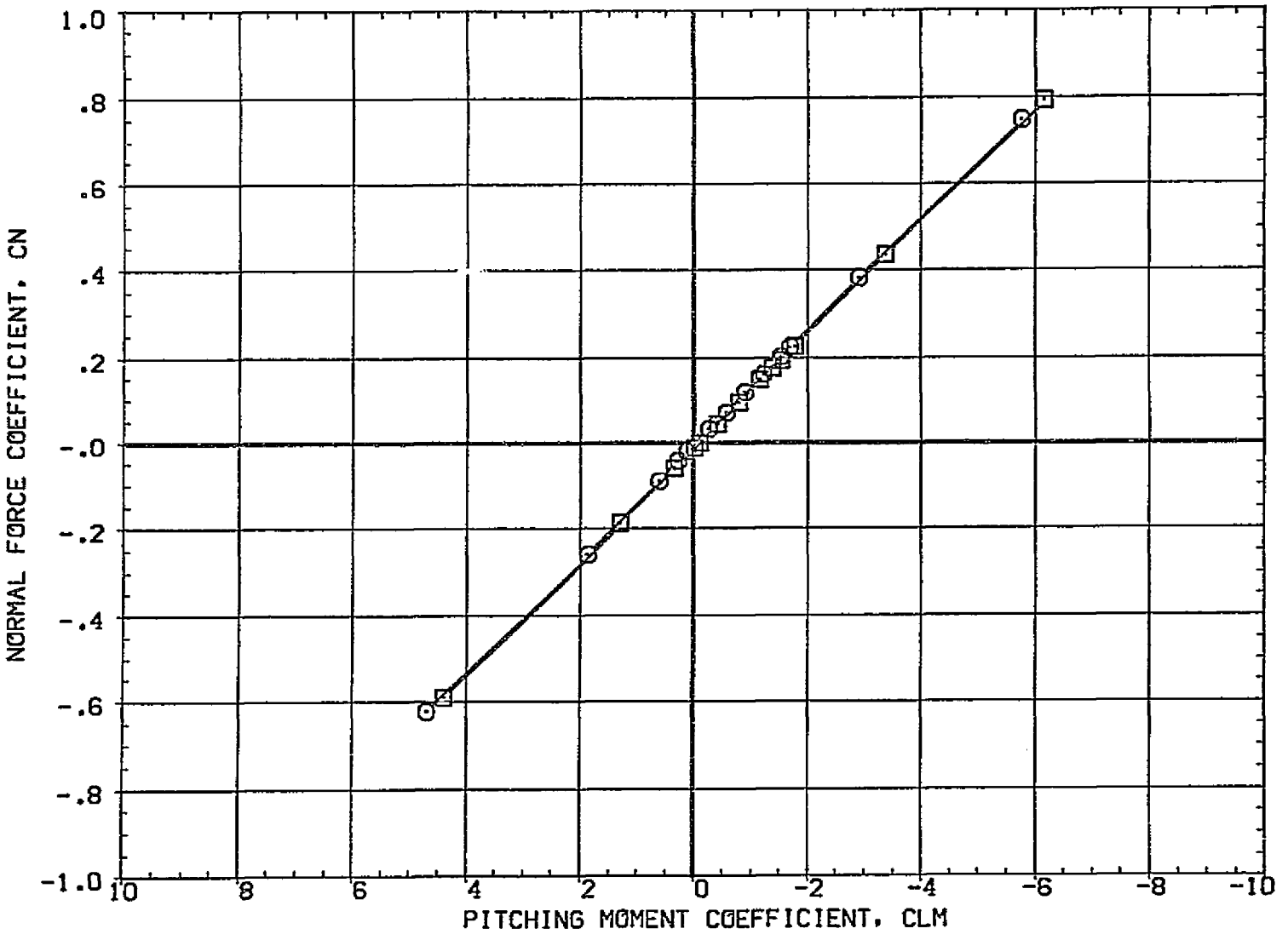


YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(C)MACH = 1.80

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1022)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	130.000
(BX1023)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



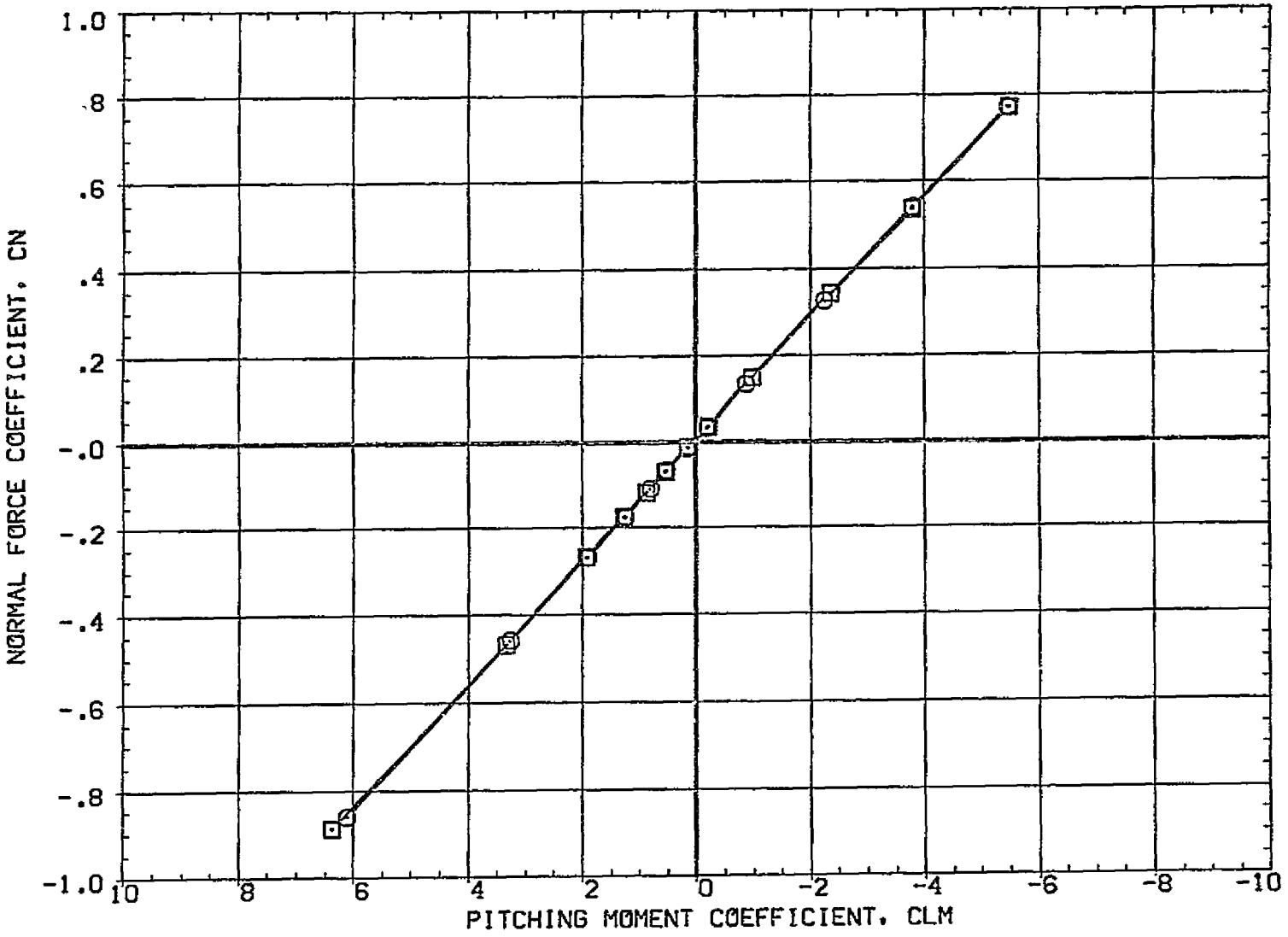
YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(A)MACH = 0.64

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BX1022)	○	OCAT ARC 603/604 B2 F4 C
(BX1023)	□	OCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	130.000
.000	100.000	100.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

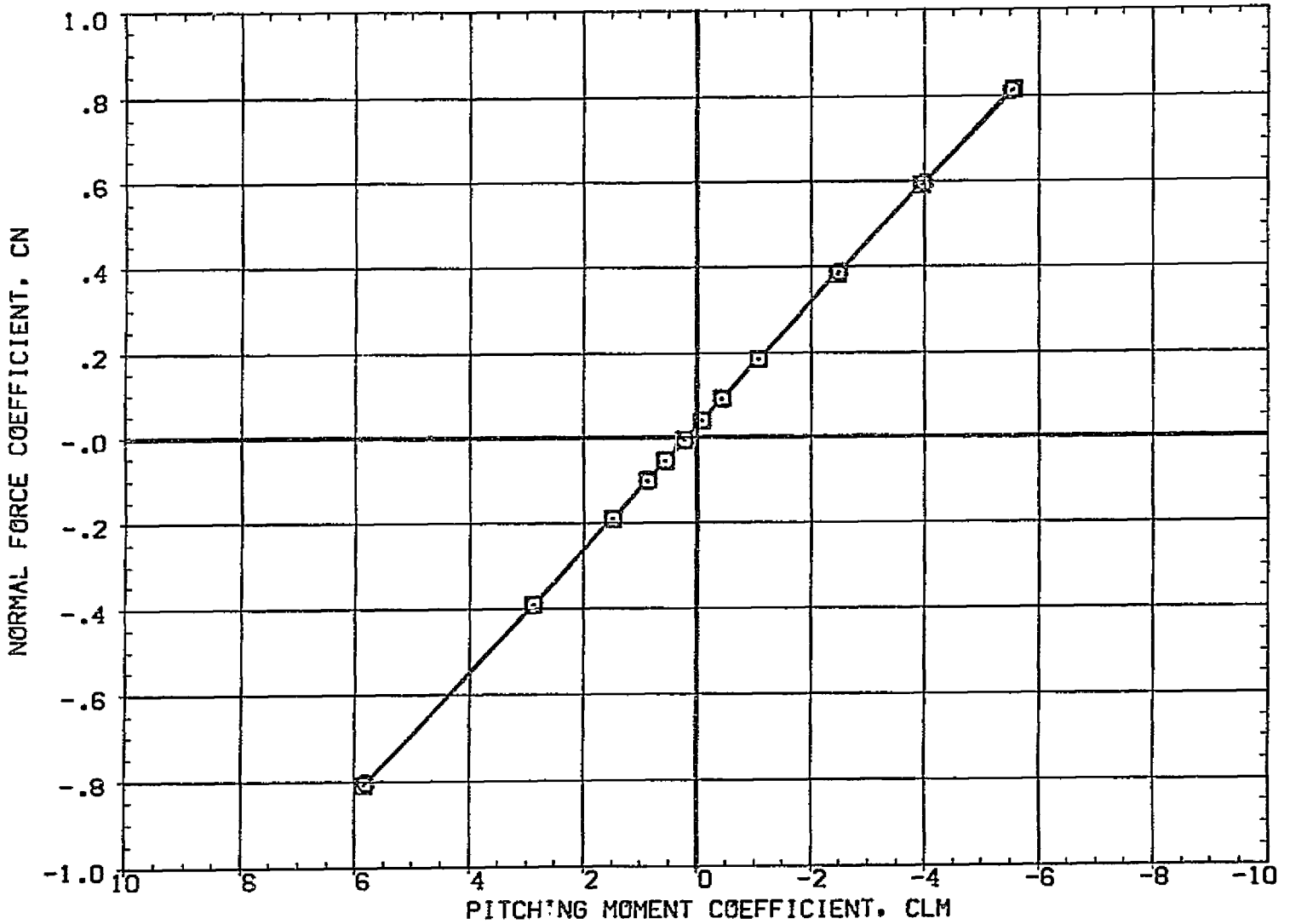


YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BX1022)	○	DCAT ARC 603/604 B2 F4 C
(BX1023)	□	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	130.000
.000	100.000	100.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



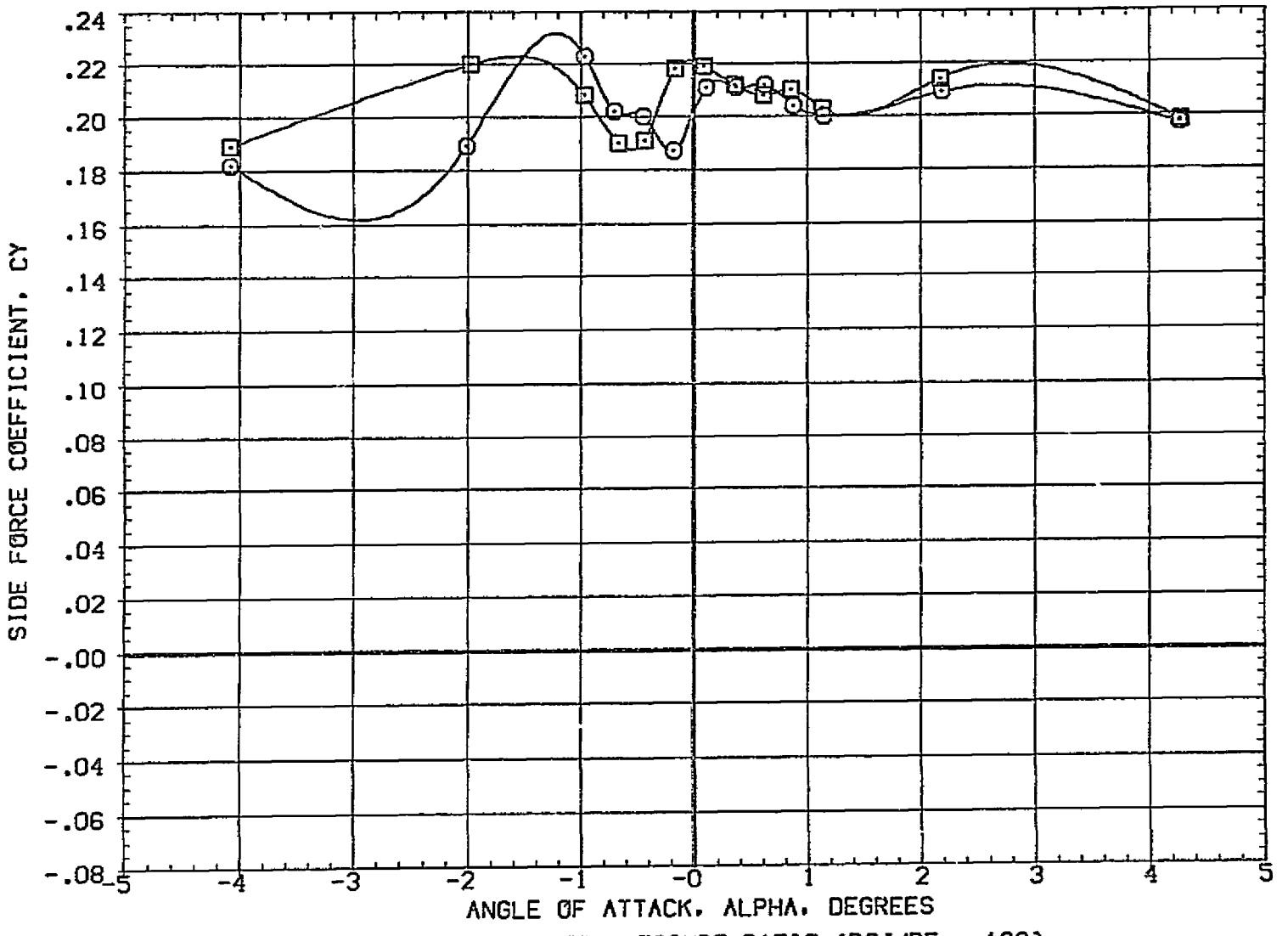
YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(C)MACH = 1.80

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BX1022)	○	DCAT ARC 603/604 B2 F4 C
(BX1023)	□	DCAT ARC 603/604 B2 F4 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	130.000
.000	100.000	100.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

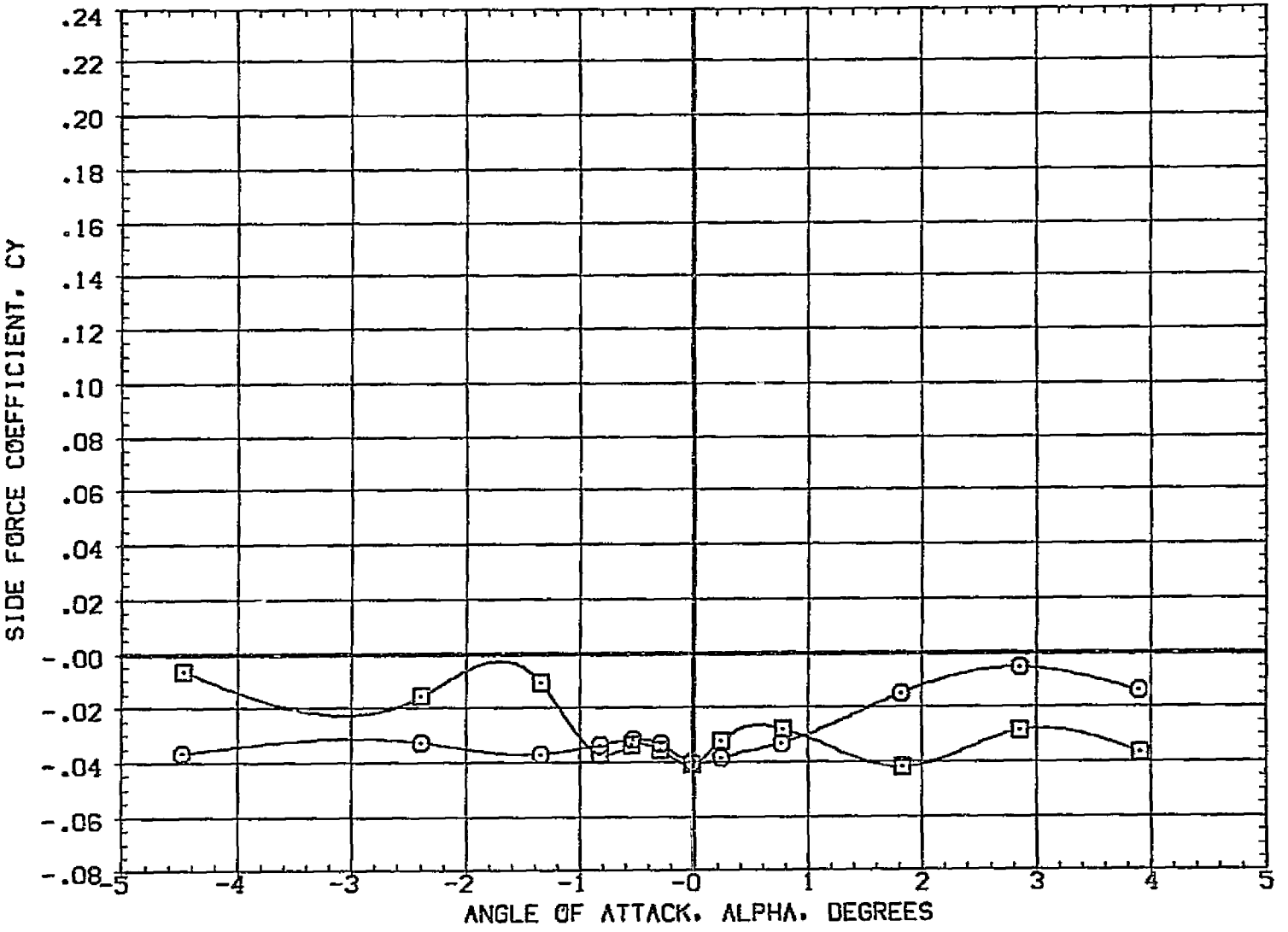


YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(A)MACH = 0.64

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1022)	○	OCAT ARC 603/604 B2 F4 C	.000	.000	100.000	130.000
(BX1023)	□	OCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

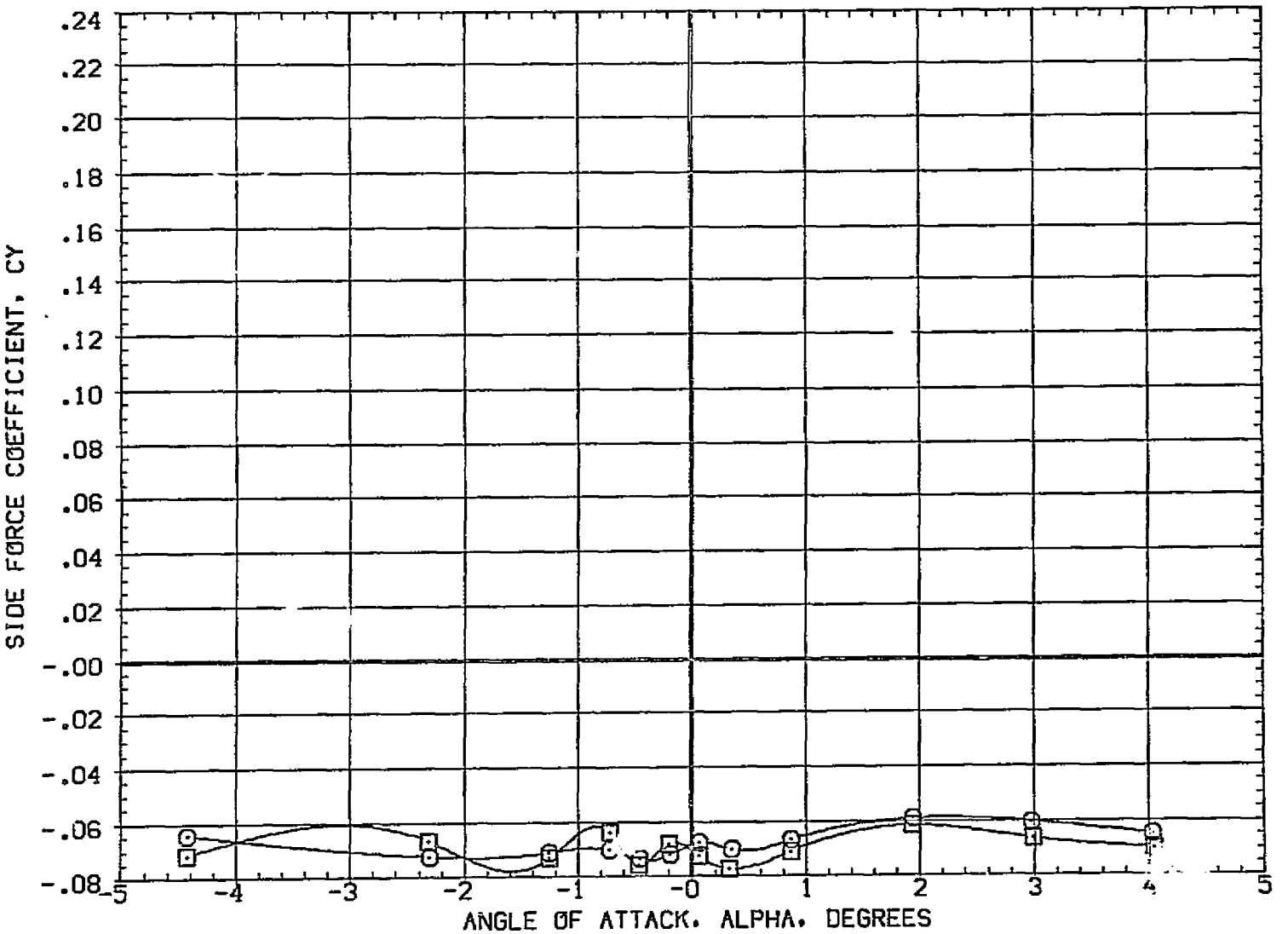


YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

(B)MACH = 1.56

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1022)	○	DCAT ARC 603/604 B2 F4 C	.000	.000	100.000	130.000
(BX1023)	□	DCAT ARC 603/604 B2 F4 C	.000	100.000	100.000	130.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

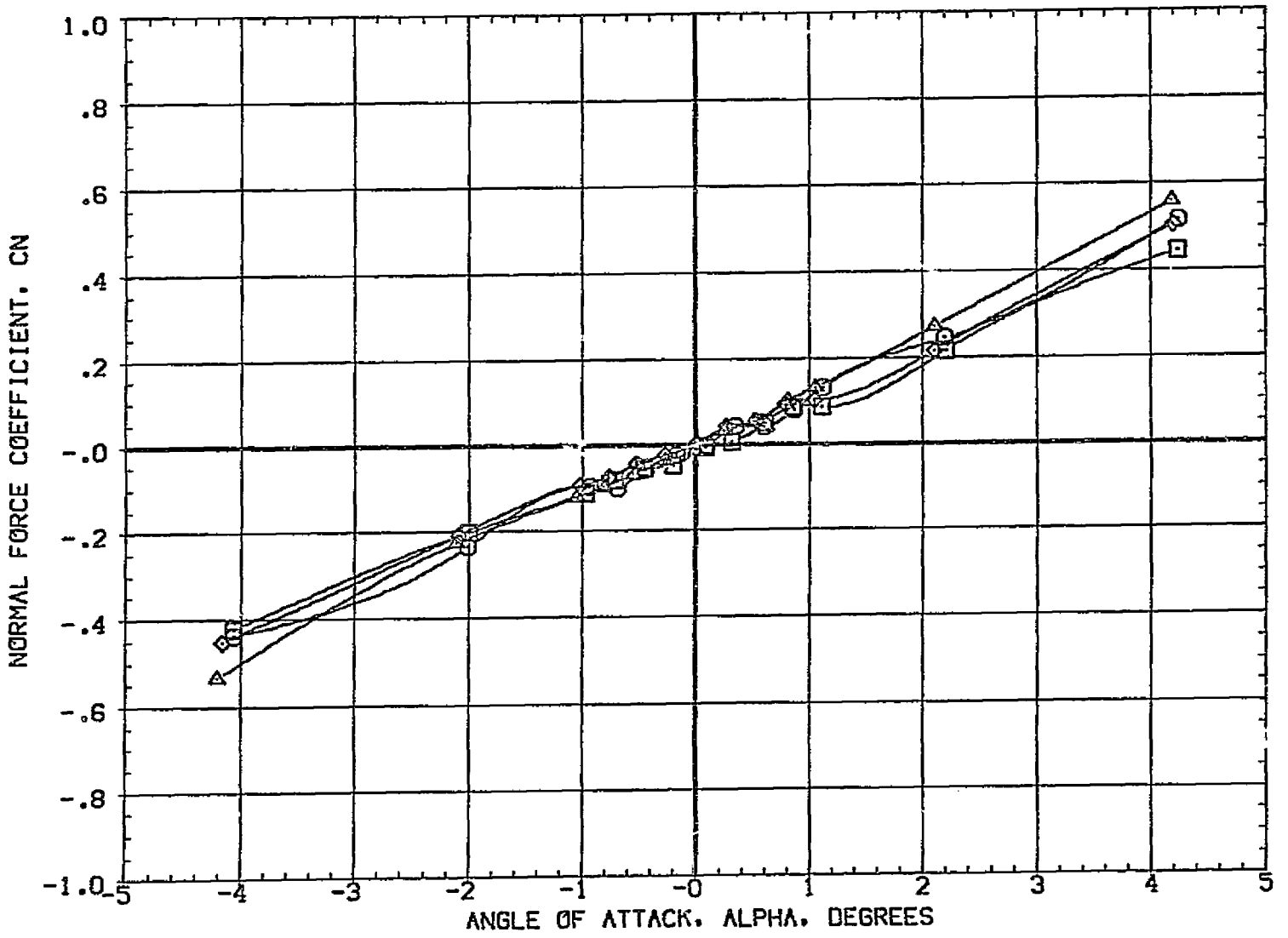


YAW MODULATION EFFECT AT INCREASED PRESSURE RATIO (POJ/PF = 130)

SYMBOL	MACH		PARAMETRIC VALUES
○	.636	BETA	.000
□	.800		
◇	.948		
△	.999		

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



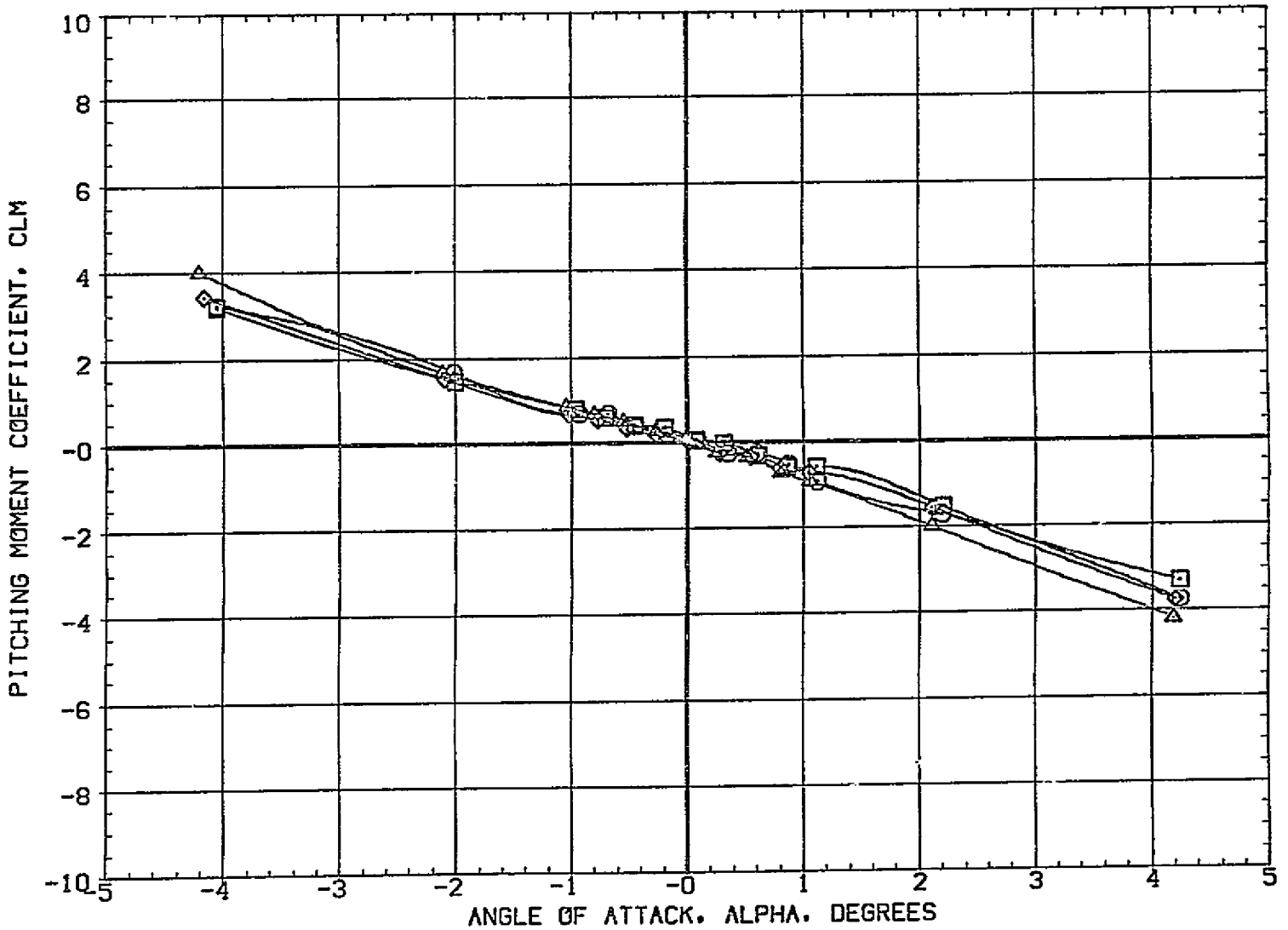
MACH NUMBER EFFECT - CONFIGURATION B2 F5 C

DCAT ARC 603/604 B2 F5 C (AX1030)

SYMBOL	MACH		PARAMETRIC VALUES
○	.636	BETA	.000
□	.800		
◇	.948		
△	.999		

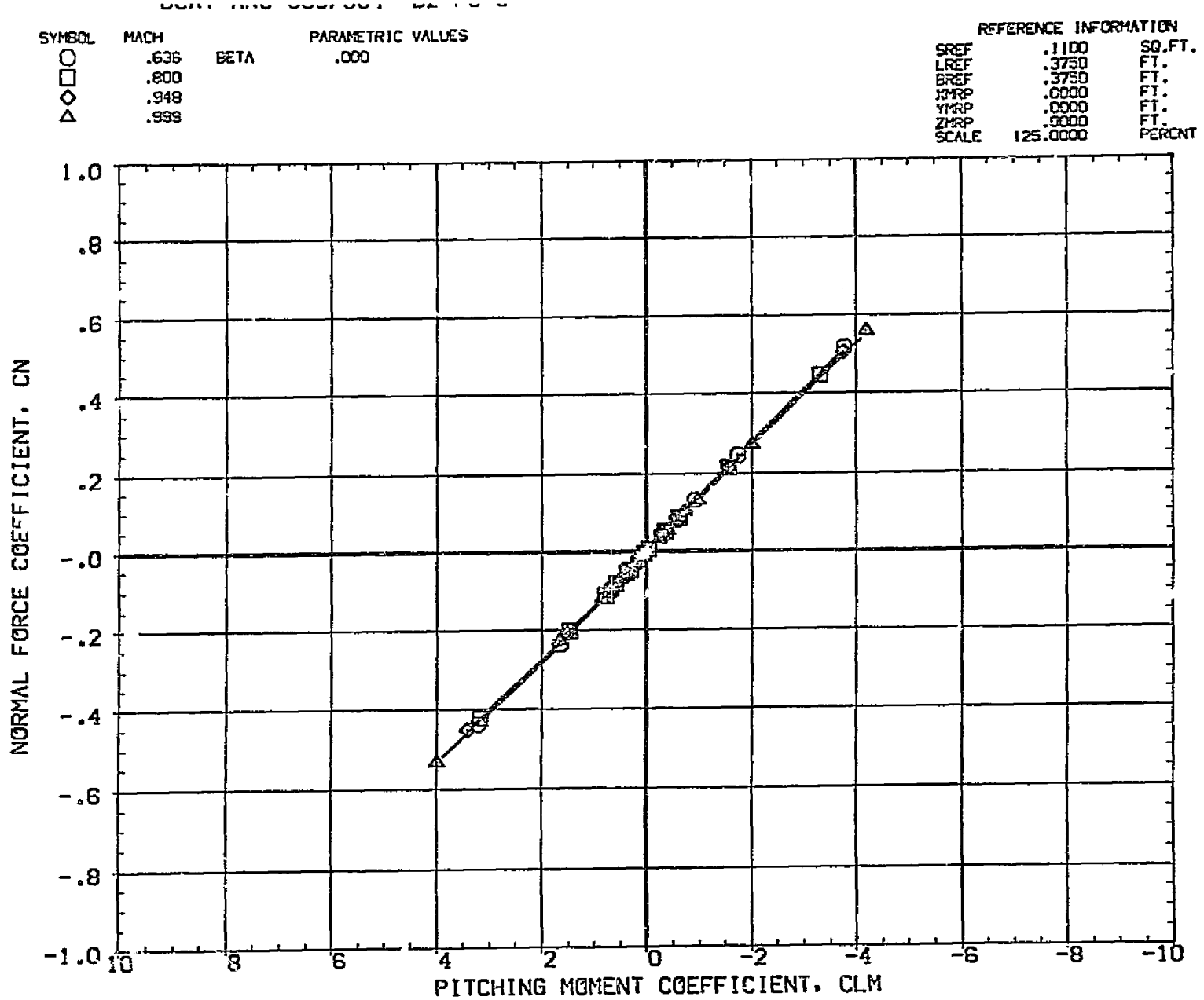
REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



MACH NUMBER EFFECT - CONFIGURATION B2 F5 C

241



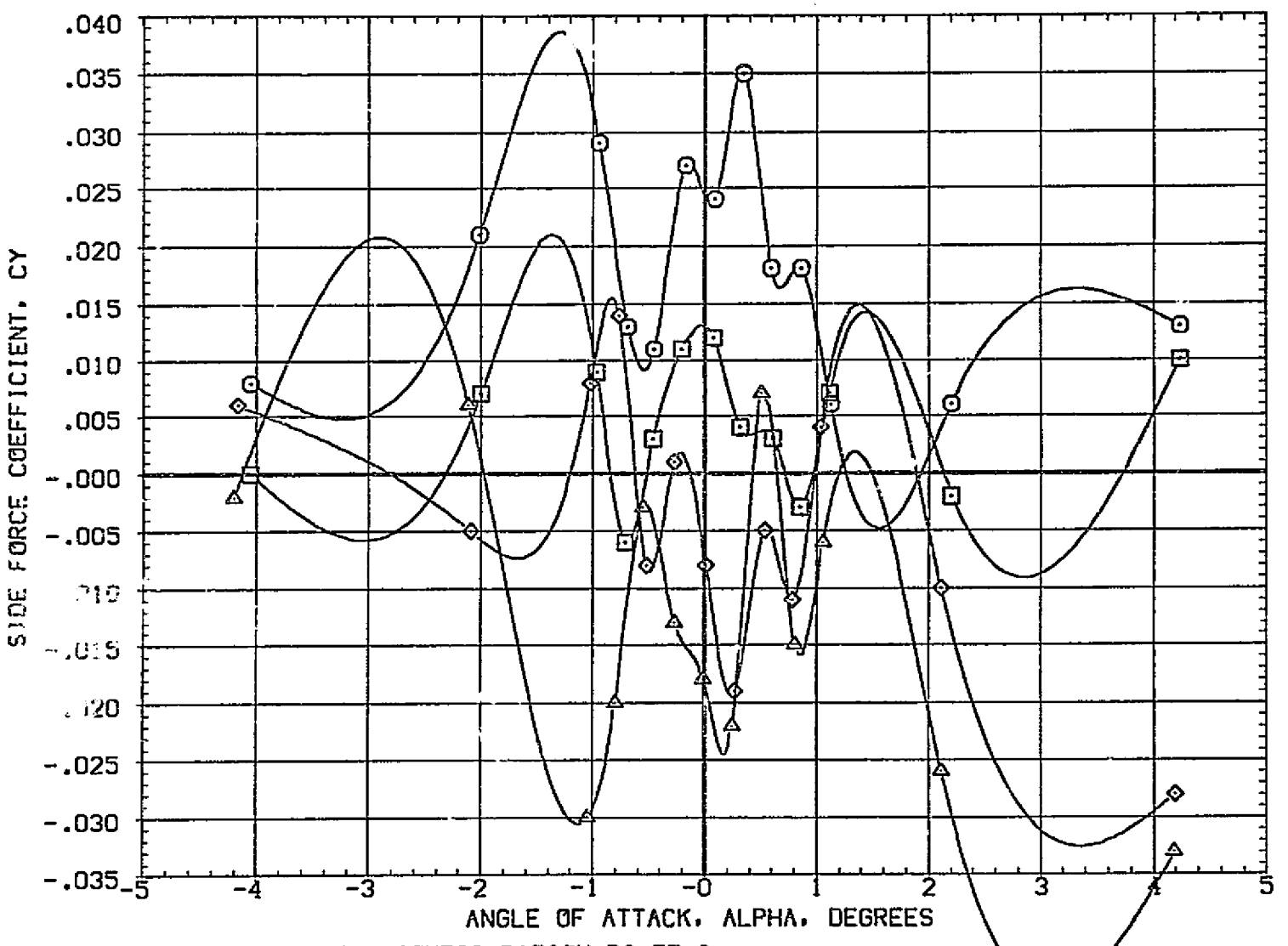
MACH NUMBER EFFECT - CONFIGURATION B2 F5 C

DCAT ARC 603/604 B2 F5 C (AX1030)

SYMBOL	MACH		PARAMETRIC VALUES
○	.636	BETA	.000
□	.800		
◇	.948		
△	.999		

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

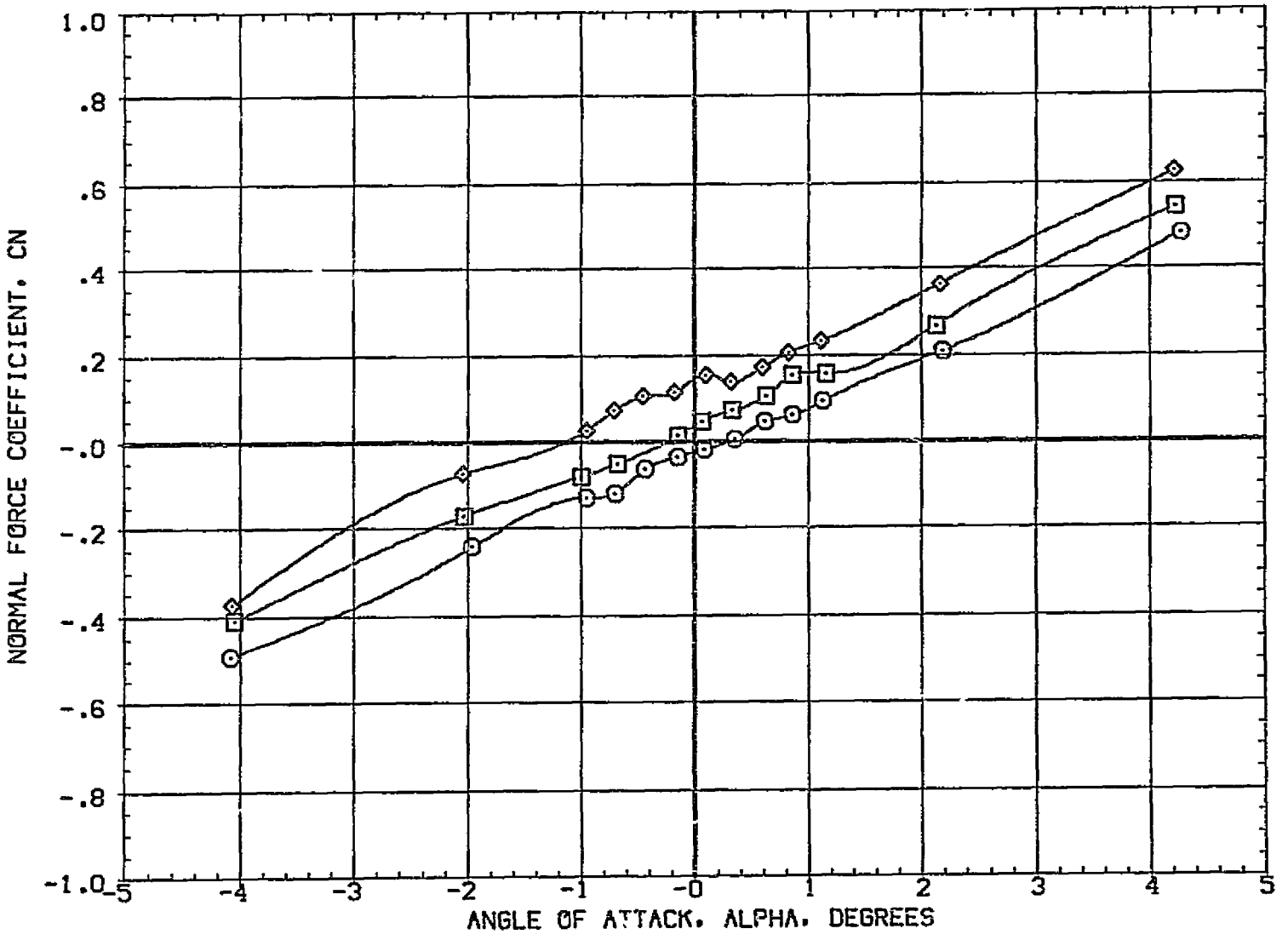


MACH NUMBER EFFECT - CONFIGURATION B2 F5 C

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1024)	○	DCAT ARC 603/604 B2 F5 C	.000	.000	.000	86.000
(BX1025)	□	DCAT ARC 603/604 B2 F5 C	.000	40.000	.000	86.000
(BX1026)	◇	DCAT ARC 603/604 B2 F5 C	.000	100.000	.000	86.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

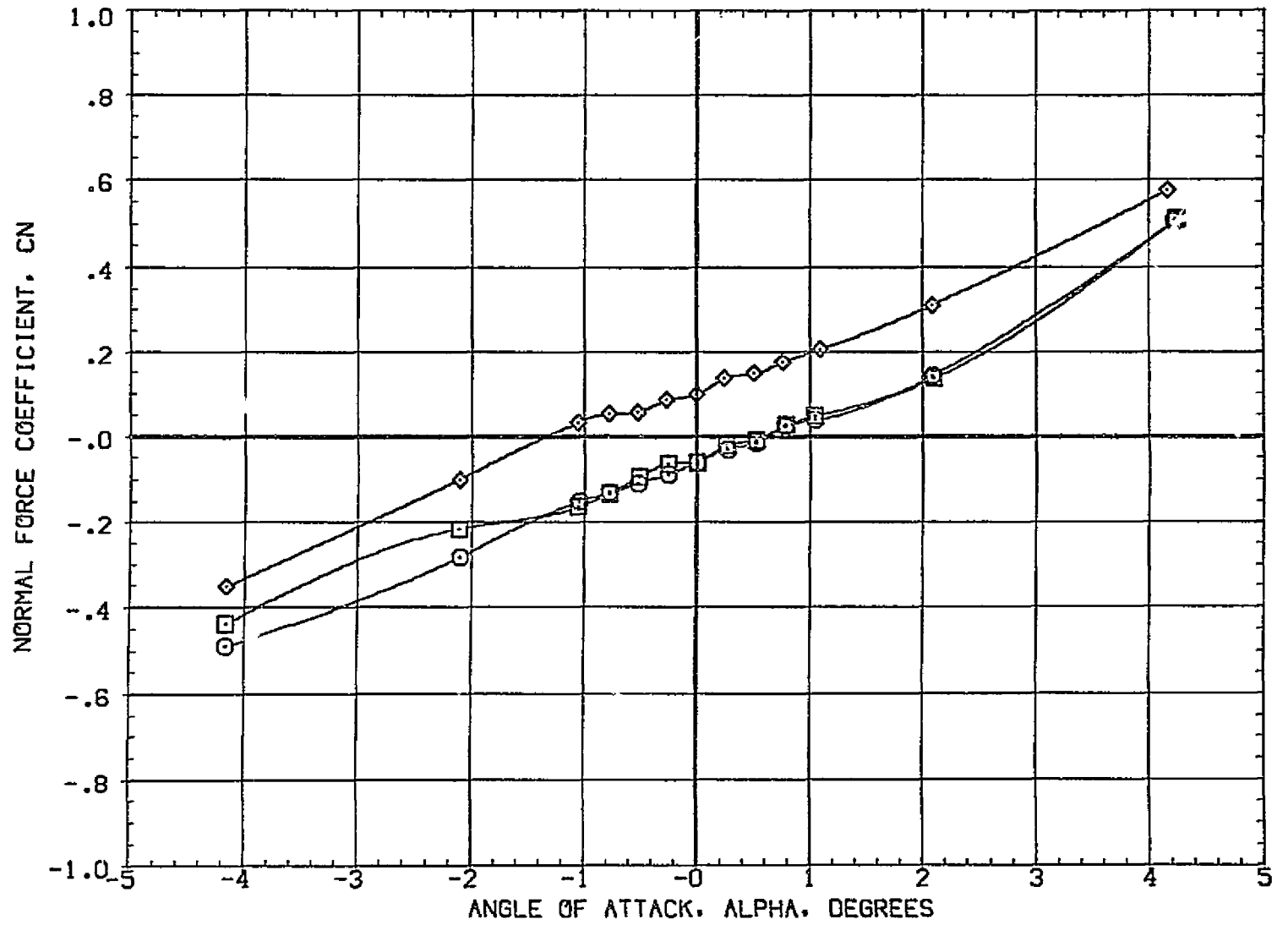


PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	PQJ/PF
(BX1024)	○	DCAT ARC 603/604 B2 FS C	.000	.000	.000	86.000
(BX1025)	□	DCAT ARC 603/604 B2 FS C	.000	40.000	.000	86.000
(BX1026)	◇	DCAT ARC 603/604 B2 FS C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



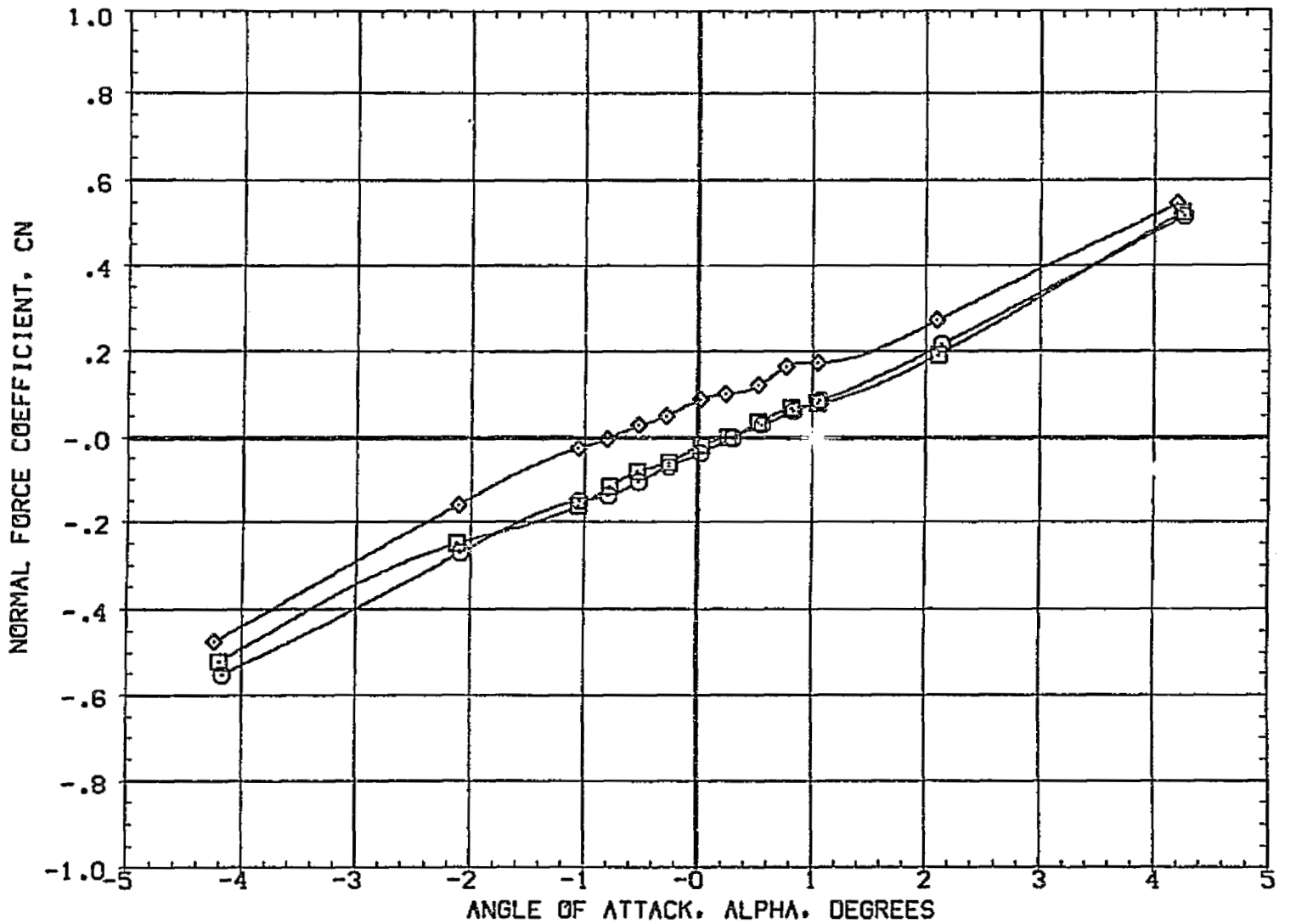
PITCH MODULATION EFFECT

(B)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1024)	○	DCAT ARC 603/604 B2 F5 C	.000	.000	.000	66.000
(BX1025)	□	DCAT ARC 603/604 B2 F5 C	.000	40.000	.000	86.000
(BX1026)	◇	DCAT ARC 603/604 B2 F5 C	.000	100.000	.000	66.000

REFERENCE INFORMATION

SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

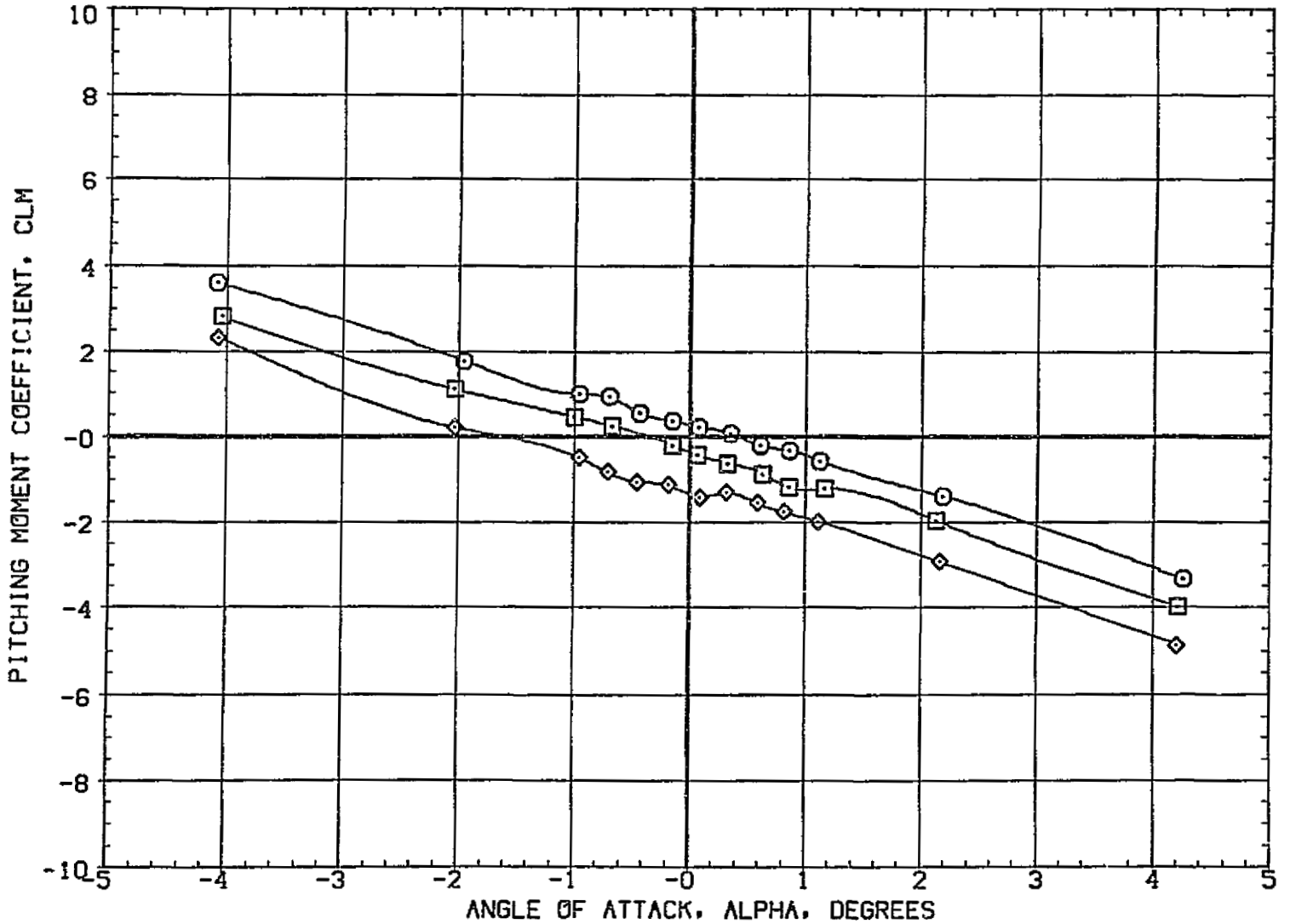


PITCH MODULATION EFFECT

(C)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POL/PF
(BX1024)	○	DCAT ARC 603/604 82 FS C	.000	.000	.000	86.000
(BX1025)	□	DCAT ARC 603/604 82 FS C	.000	40.000	.000	86.000
(BX1026)	◇	DCAT ARC 603/604 82 FS C	.000	100.000	.000	86.000

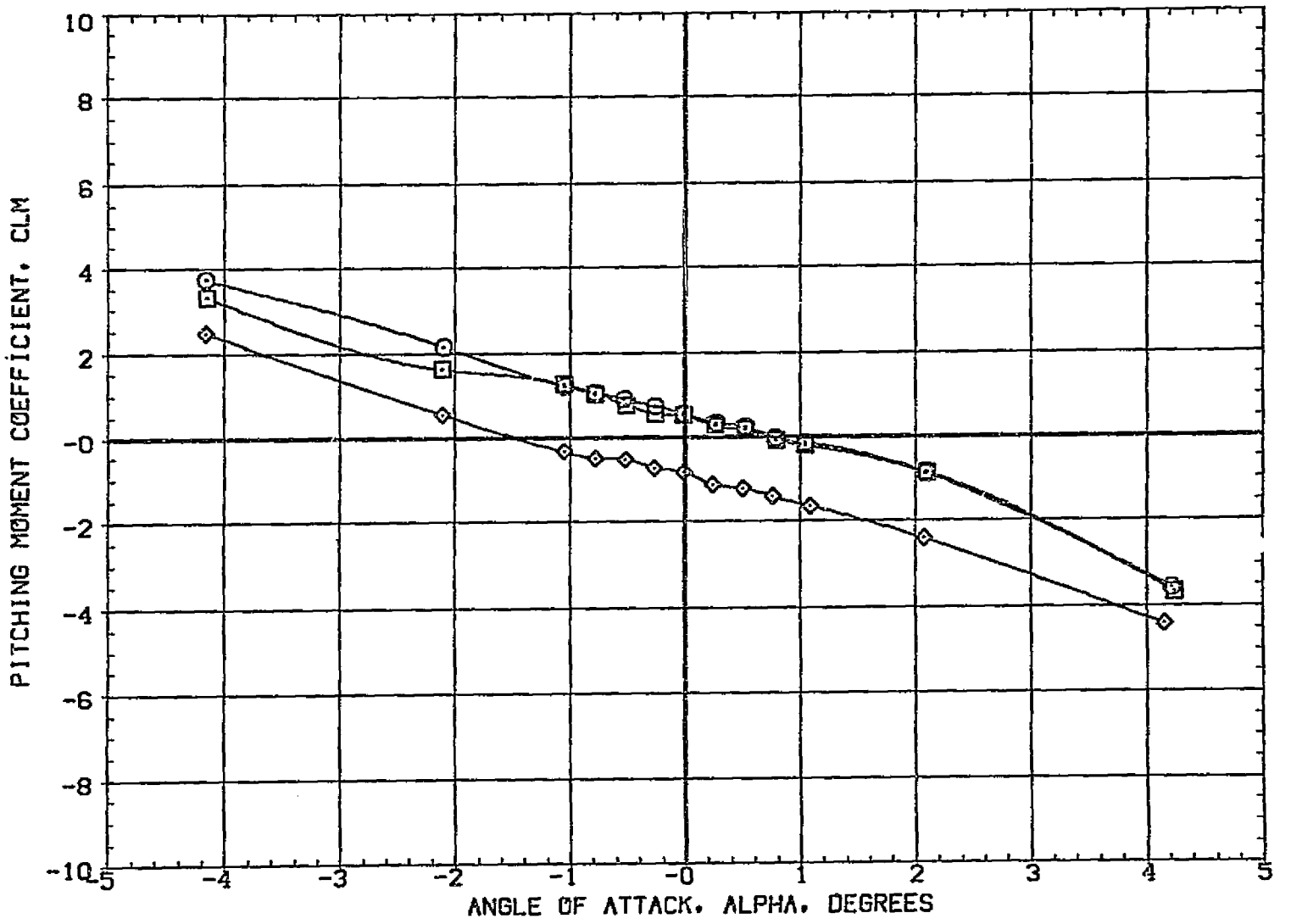
REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1024)	○	DCAT ARC 603/604 B2 F5 C	.000	.000	.000	86.000
(BX1025)	□	DCAT ARC 603/604 B2 F5 C	.000	40.000	.000	86.000
(BX1026)	◇	DCAT ARC 603/604 B2 F5 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

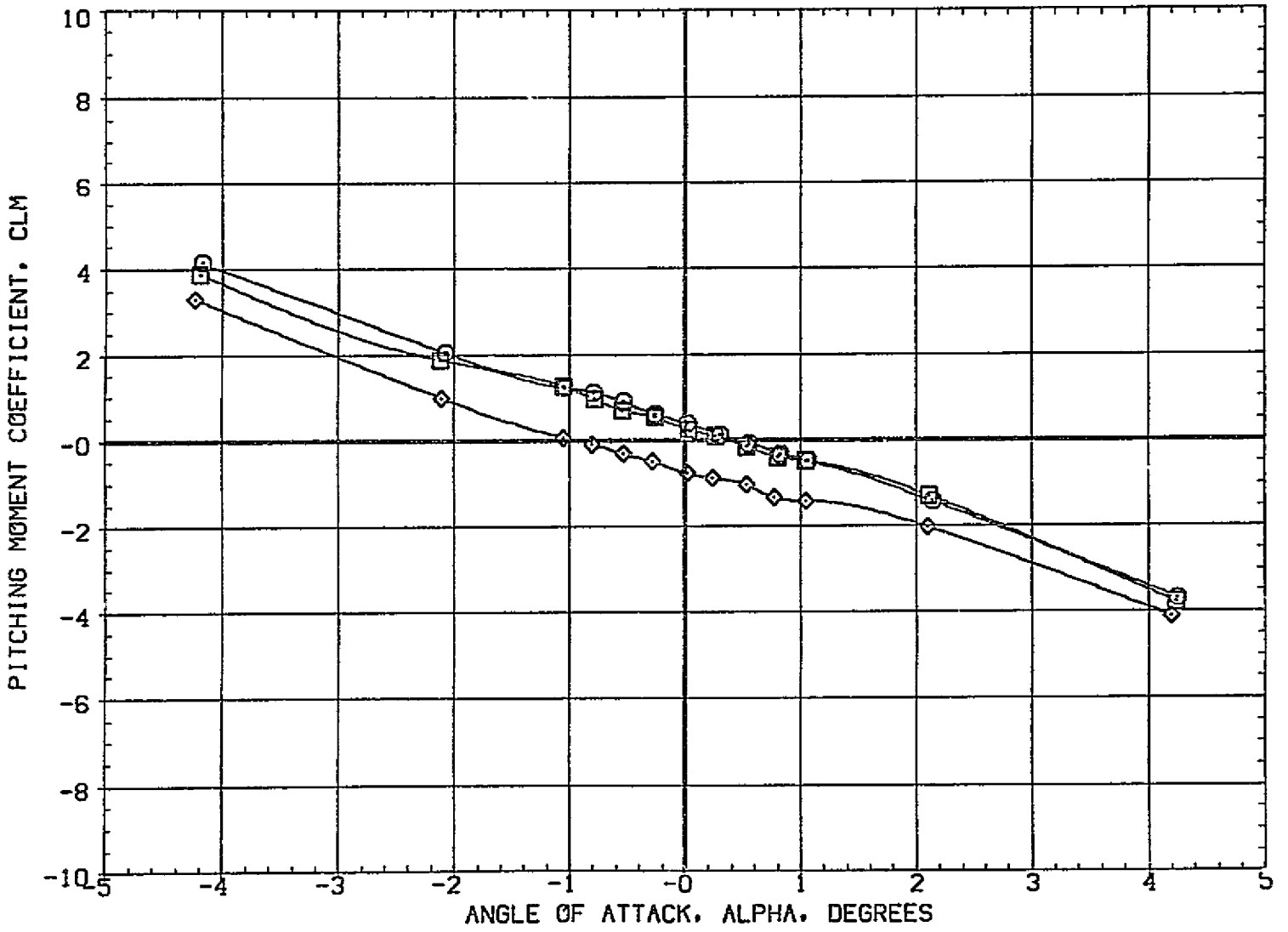


PITCH MODULATION EFFECT

(B)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1024)	○	DCAT ARC 603/604 B2 F5 C	.000	.000	.000	86.000
(BX1025)	□	DCAT ARC 603/604 B2 F5 C	.000	40.000	.000	86.000
(BX1026)	◇	DCAT ARC 603/604 B2 F5 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

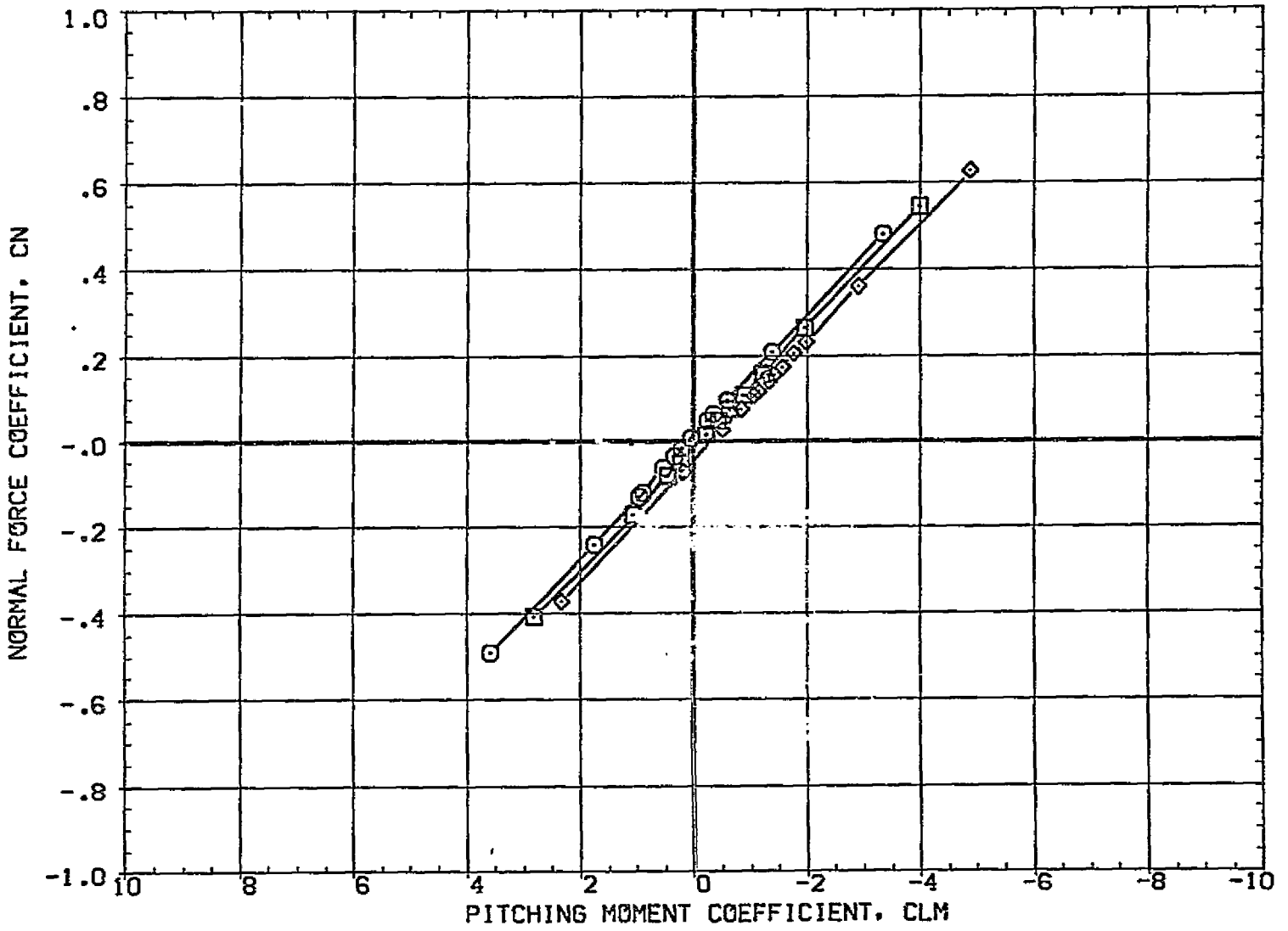


PITCH MODULATION EFFECT

(C)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1024)	○	DCAT ARC 603/604 B2 F5 C	.000	.000	.000	86.000
(BX1025)	□	DCAT ARC 603/604 B2 F5 C	.000	40.000	.000	86.000
(BX1026)	◇	DCAT ARC 603/604 B2 F5 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

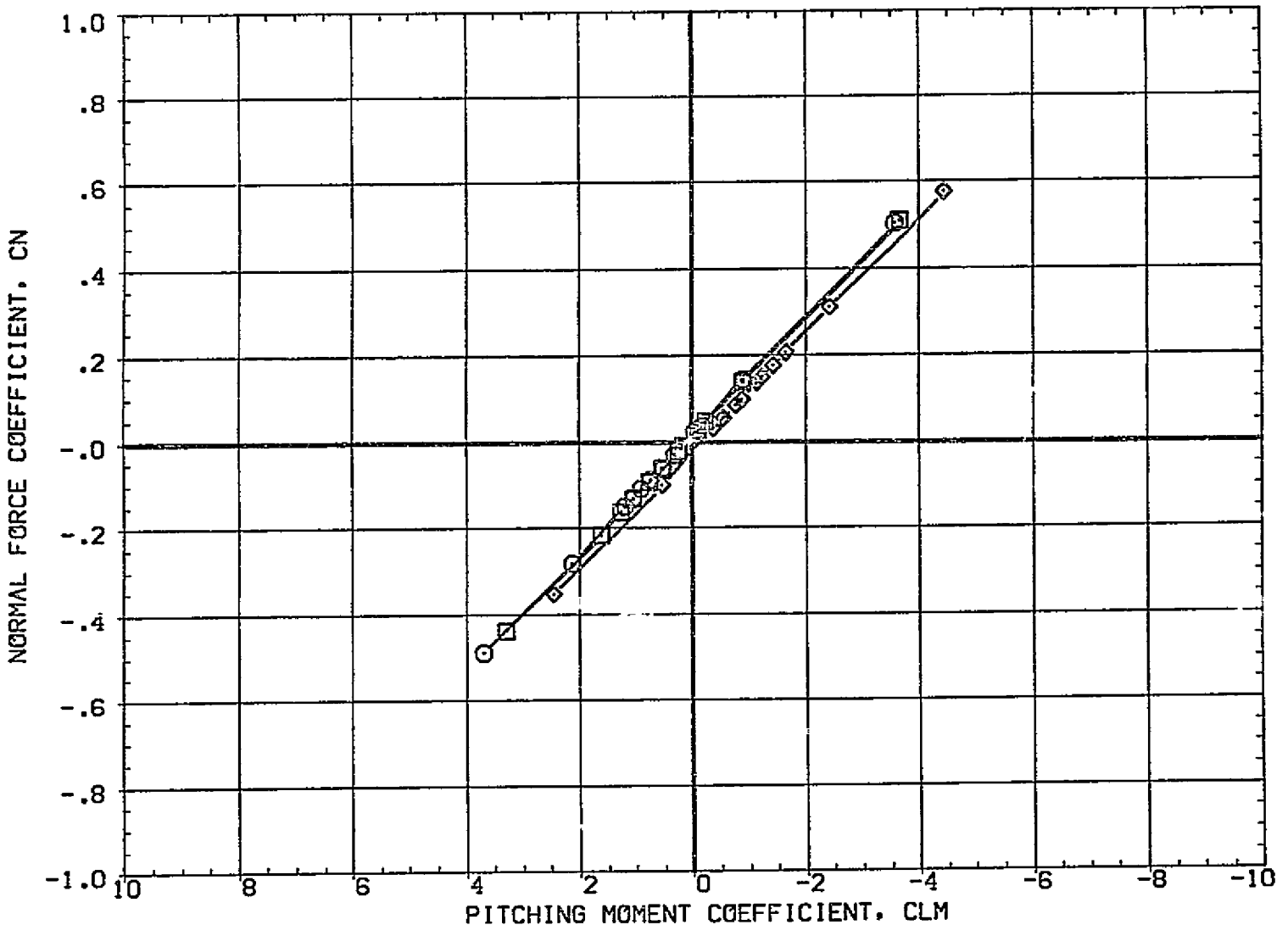


PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1024)	○	DCAT ARC 603/604 B2 FS C	.000	.000	.000	86.000
(BX1025)	□	DCAT ARC 603/604 B2 FS C	.000	40.000	.000	36.000
(BX1026)	◇	DCAT ARC 603/604 B2 FS C	.000	100.000	.000	86.000

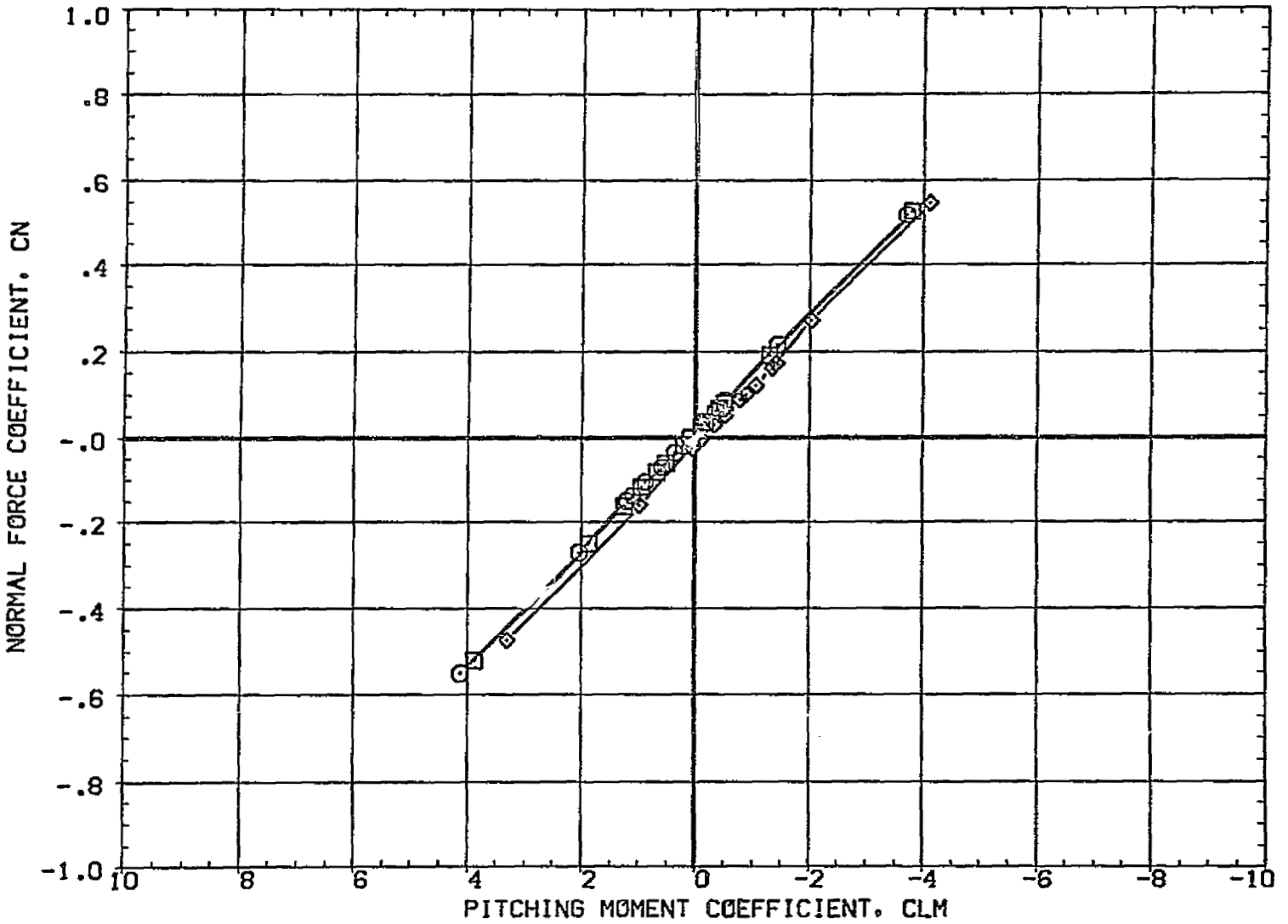
REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1024)	○	DCAT ARC 603/604 B2 F5 C	.000	.000	.000	86.000
(BX1025)	□	DCAT ARC 603/604 B2 F5 C	.000	40.000	.000	86.000
(BX1026)	◇	DCAT ARC 603/604 B2 F5 C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

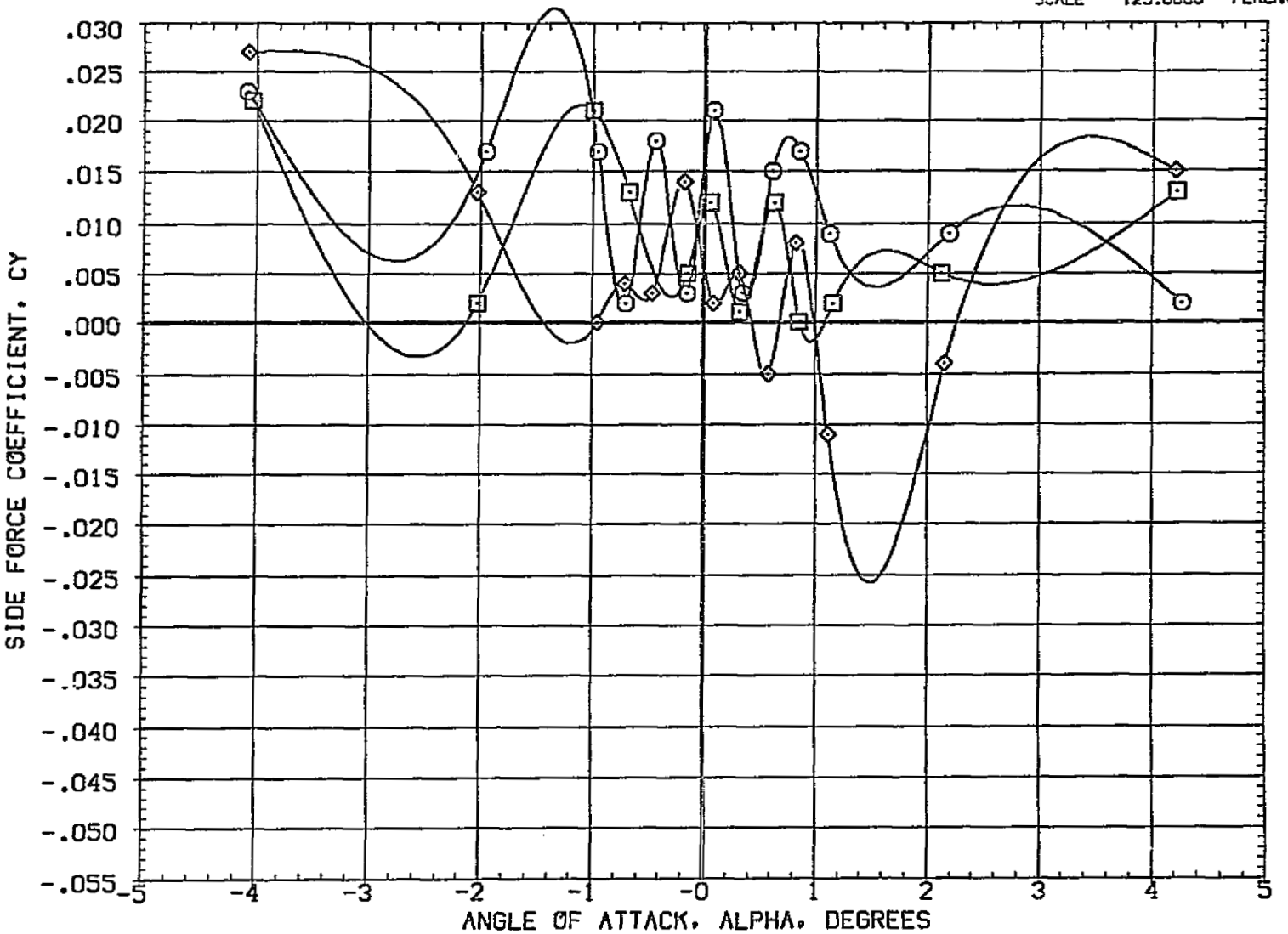


PITCH MODULATION EFFECT

(C)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	PQU/PF
(BX1024)	○	DCAT ARC 603/604 82 FS C	.000	.000	.000	86.000
(BX1025)	□	DCAT ARC 603/604 82 FS C	.000	40.000	.000	86.000
(BX1026)	◇	DCAT ARC 603/604 82 FS C	.000	100.000	.000	86.000

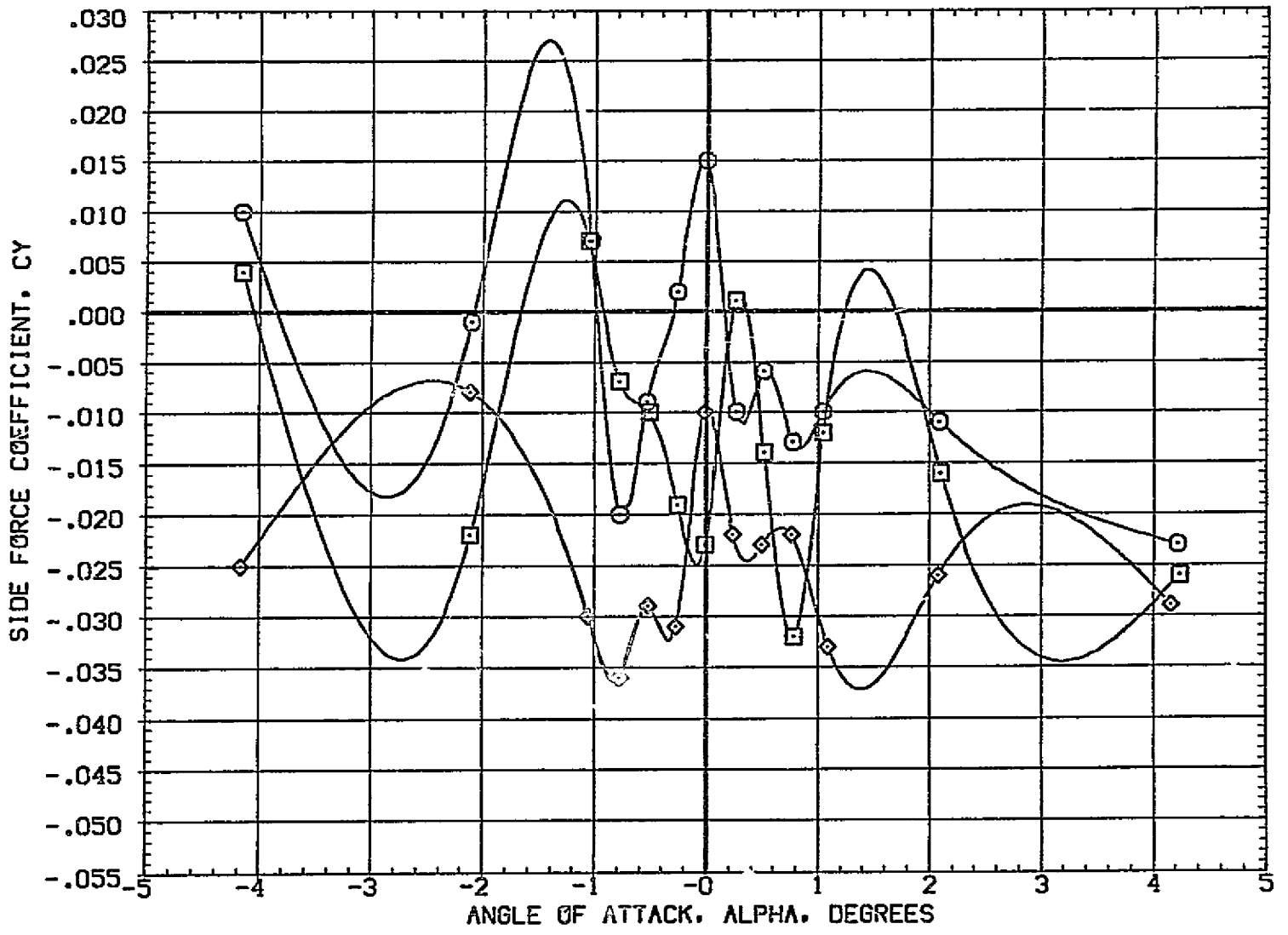
REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POW/PF
(BX1024)	□	DCAT ARC 603/604 B2 FS C	.000	.000	.000	86.000
(BX1025)	▭	DCAT ARC 603/604 B2 FS C	.000	40.000	.000	86.000
(BX1026)	◇	DCAT ARC 603/604 B2 FS C	.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



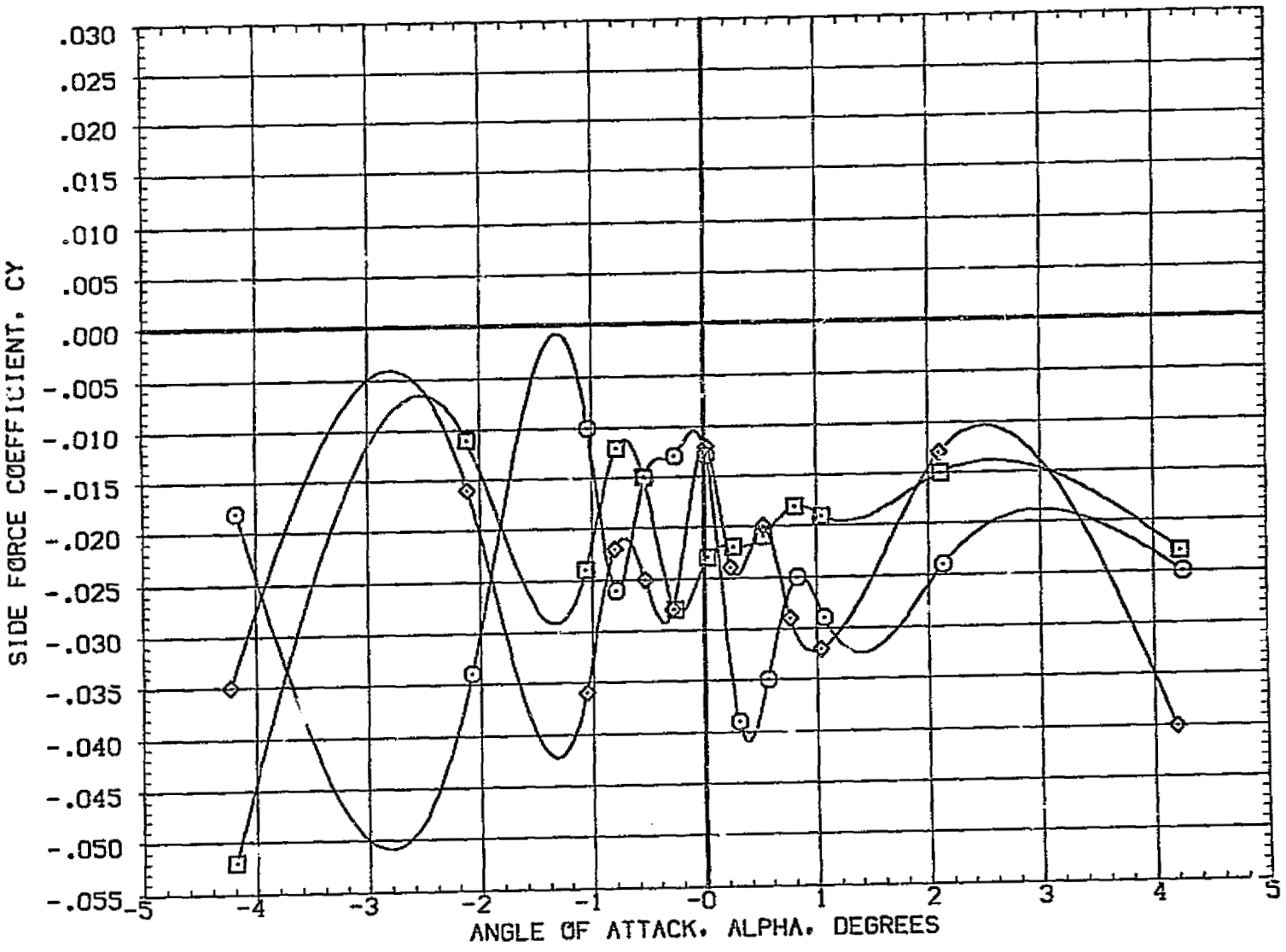
PITCH MODULATION EFFECT

(B)MACH = 0.95

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BX1024)	○	DCAT ARC 603/604 B2 FS C
(BX1025)	□	DCAT ARC 603/604 B2 FS C
(BX1026)	◇	DCAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	.000	86.000
.000	40.000	.000	86.000
.000	100.000	.000	86.000

REFERENCE INFORMATION		
SREF	.100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

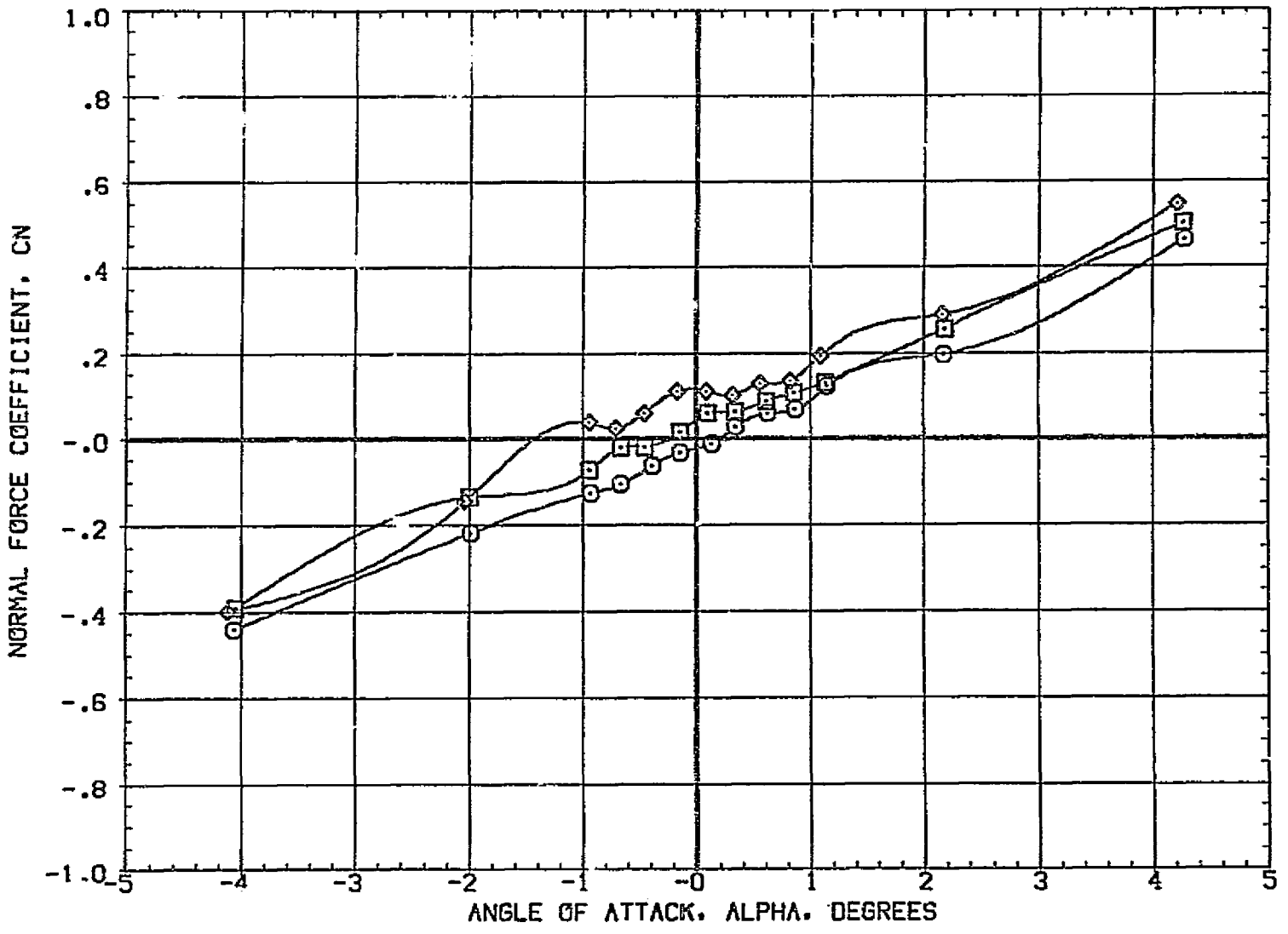


PITCH MODULATION EFFECT

(C)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	PQJ/PF
(BX1027)	○	DCAT ARC 603/604 B2 FS C	.000	.000	100.000	86.000
(BX1028)	□	DCAT ARC 603/604 B2 FS C	.000	40.000	100.000	86.000
(BX1029)	◇	DCAT ARC 603/604 B2 FS C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



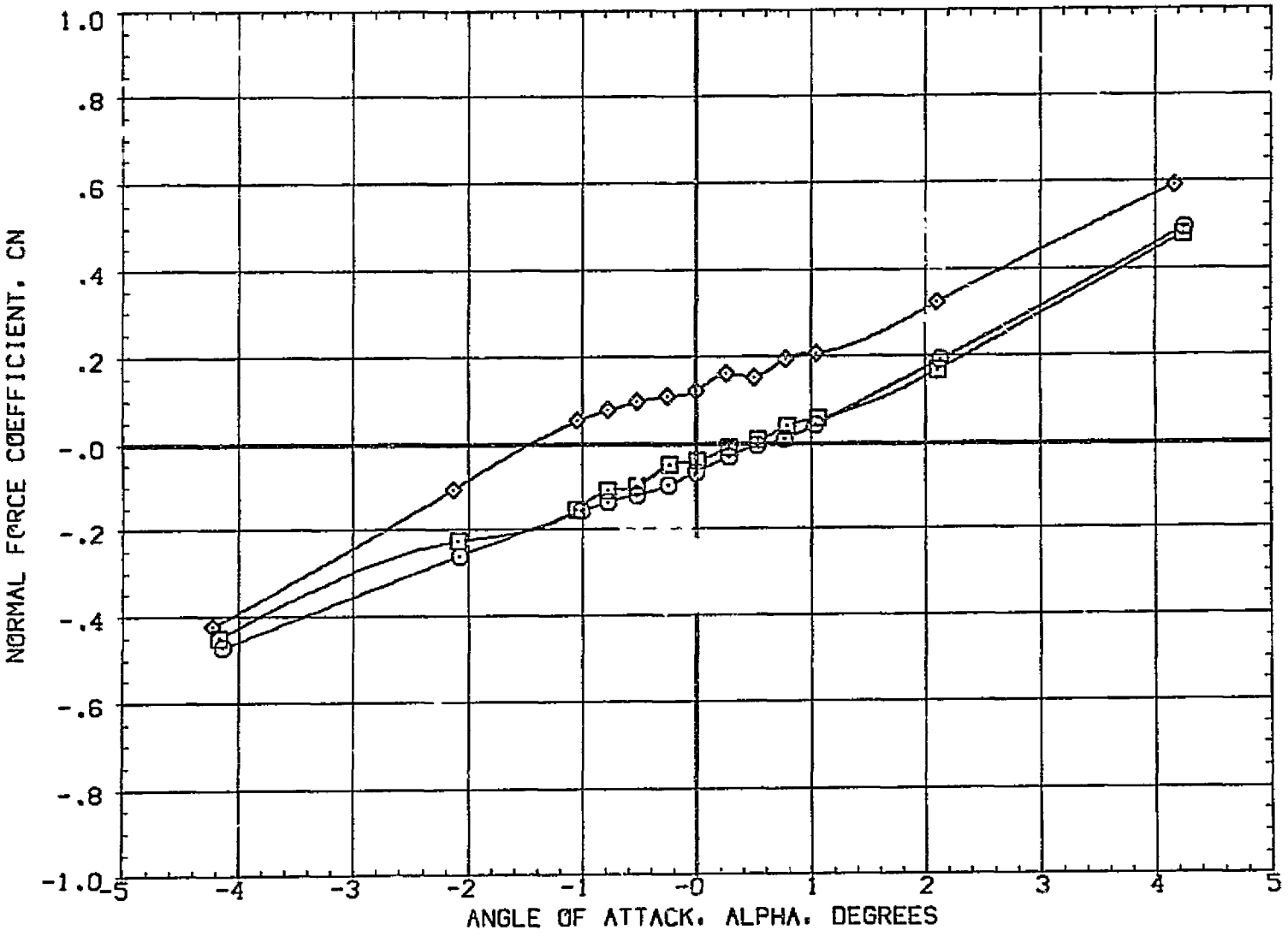
PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1027)	○	OCAT ARC 603/604 .2 FS C
(BX1028)	□	OCAT ARC 603/604 .2 FS C
(BX1029)	◇	OCAT ARC 603/604 .2 FS C

BETA	P-MOD	Y-MOD	POL/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCENT



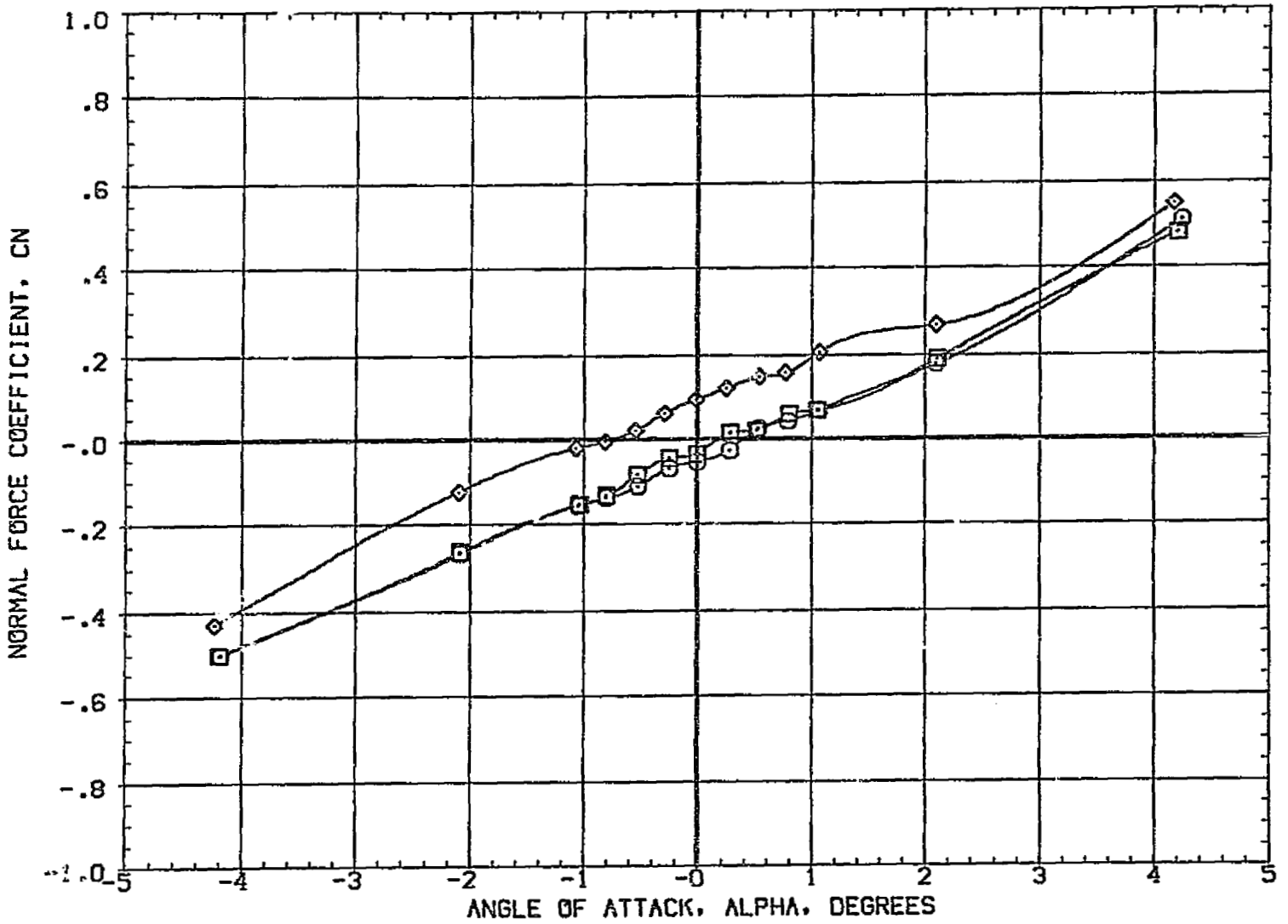
PITCH MODULATION EFFECT

(B)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(8X1027)	○	OCAT ARC 603/604 B2 FS C
(8X1028)	□	OCAT ARC 603/604 B2 FS C
(8X1029)	◇	OCAT ARC 603/604 B2 FS C

BETA	P-MOD	Y-MOD	POV/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCENT

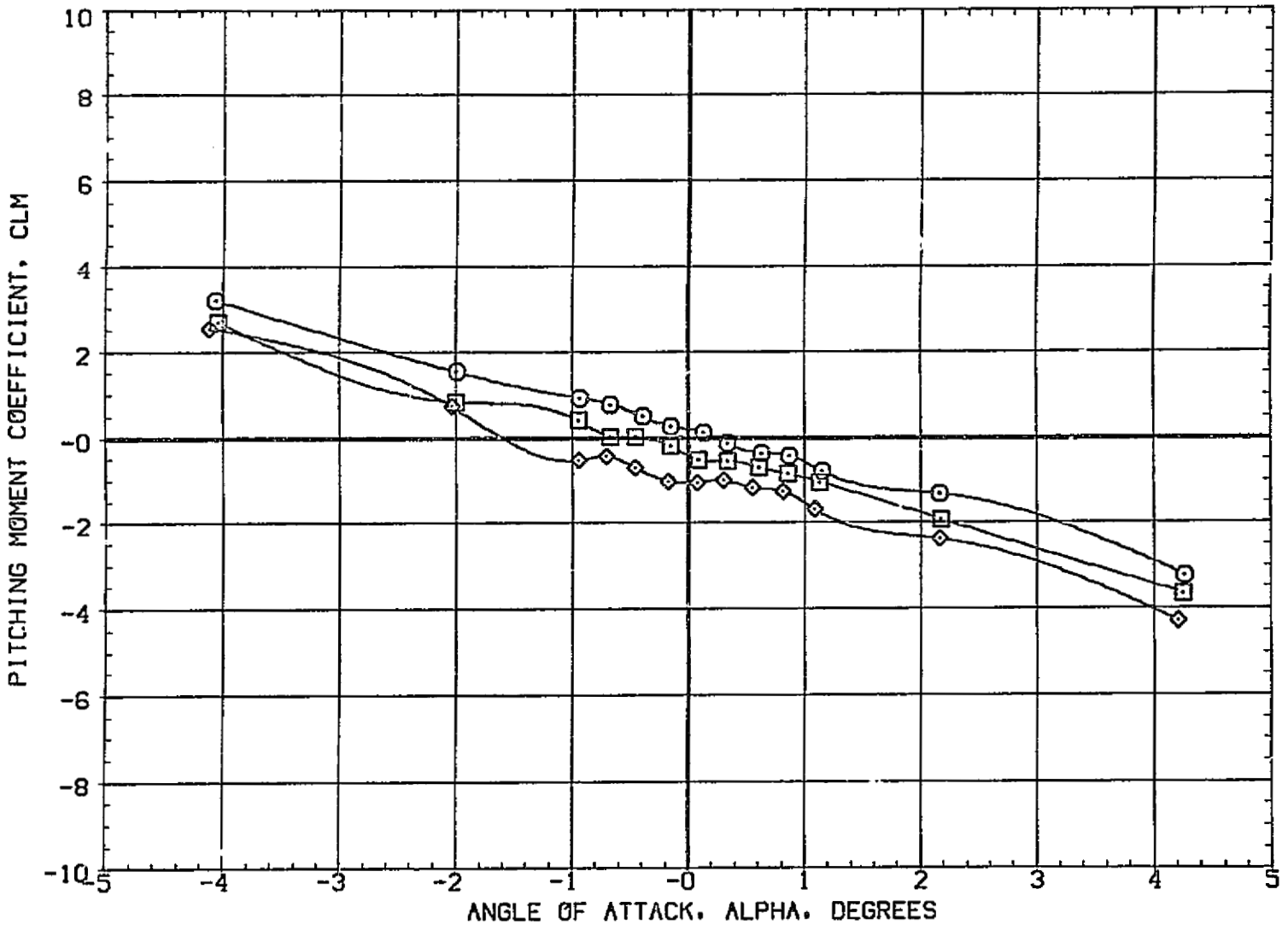


PITCH MODULATION EFFECT

(C)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POL/PF
(BX1027)	○	DCAT ARC 603/604 B2 F5 C	.000	.000	100.000	86.000
(BX1028)	□	DCAT ARC 603/604 B2 F5 C	.000	40.000	100.000	86.000
(BX1029)	◇	DCAT ARC 603/604 B2 F5 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

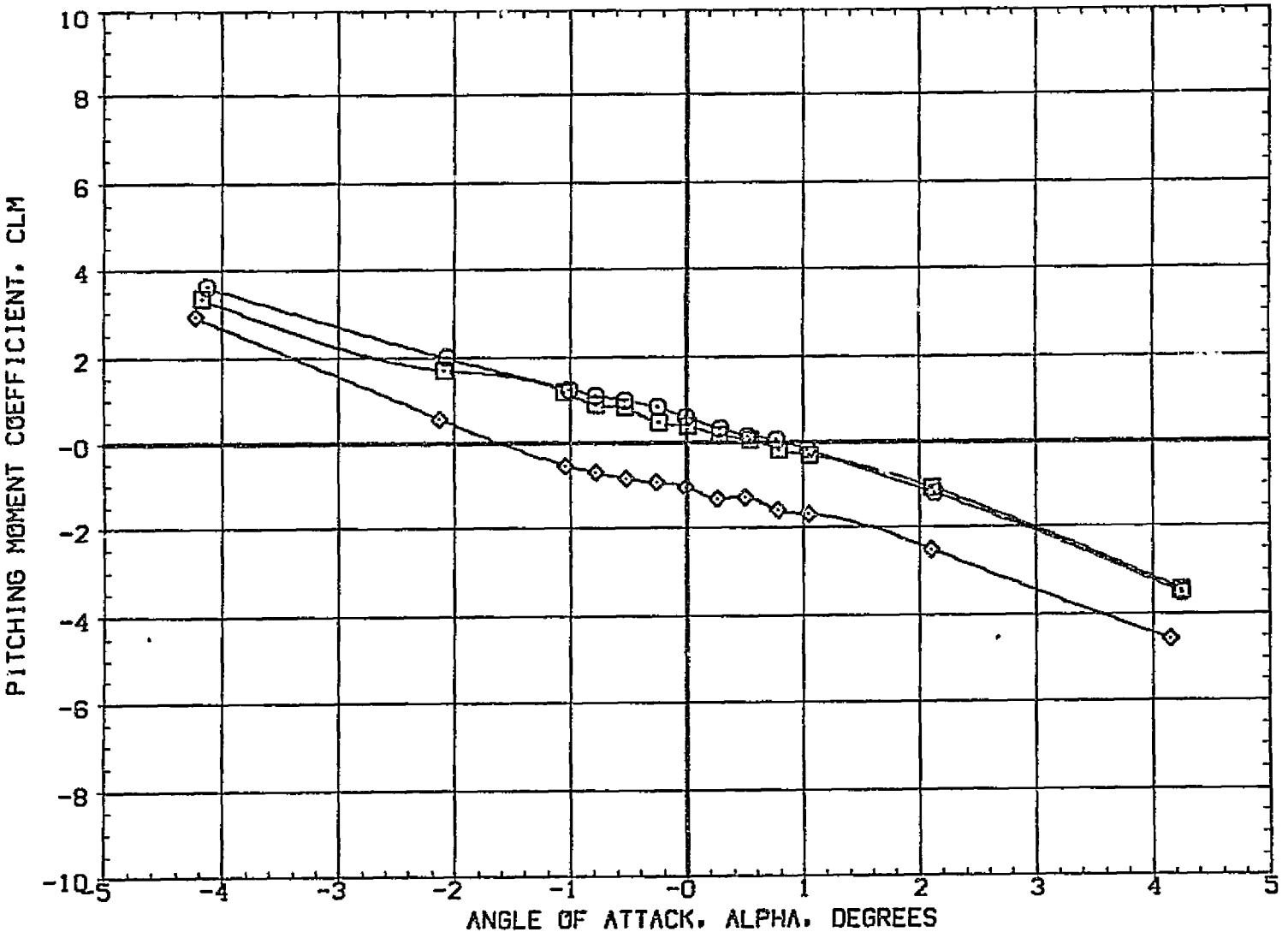


PITCH MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1027)	▭	DCAT ARC 603/604 B2 F5 C
(BX1028)	◻	DCAT ARC 603/604 B2 F5 C
(BX1029)	◇	DCAT ARC 603/604 B2 F5 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



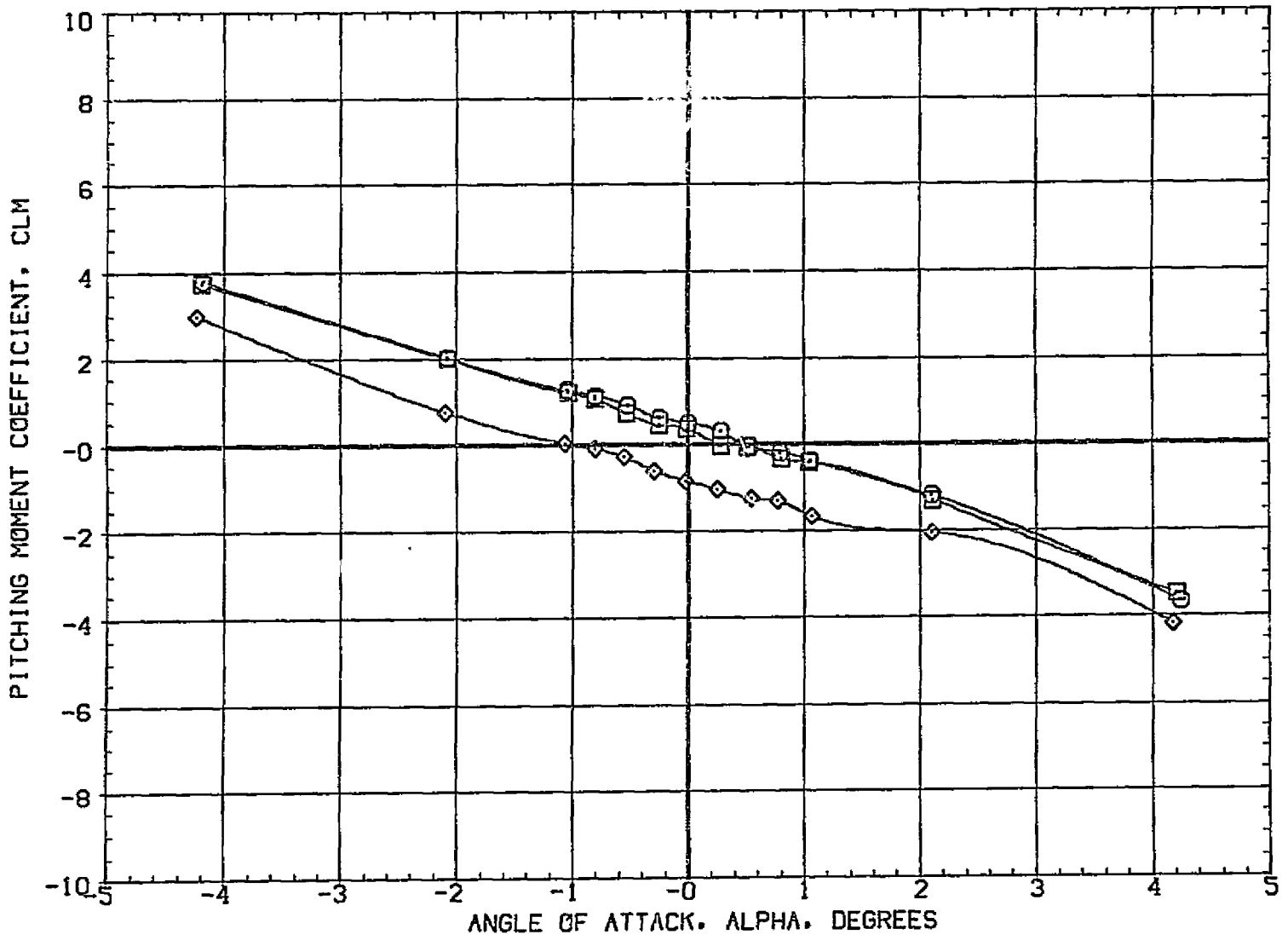
PITCH MODULATION EFFECT

(B)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(8X1027)	○	DCAT ARC 603/604 82 FS C
(8X1028)	□	DCAT ARC 603/604 82 FS C
(8X1029)	◇	DCAT ARC 603/604 82 FS C

BETA	P-MOD	Y-MOD	POS/PF
.000	.000	100.000	85.000
.000	40.000	100.000	85.000
.000	100.000	100.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

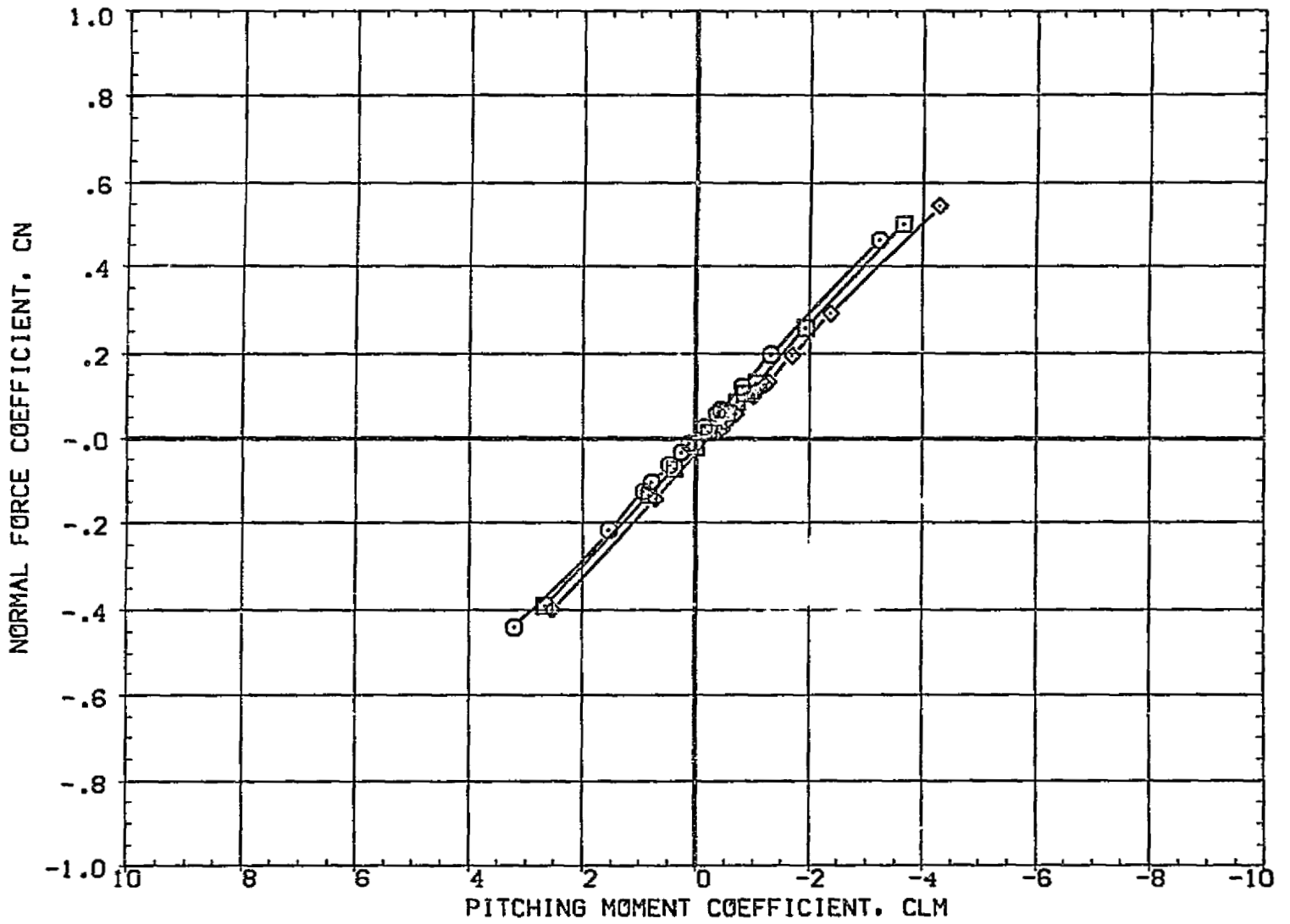


PITCH MODULATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1027)	○	DCAT ARC 603/604 B2 F5 C
(BX1028)	□	DCAT ARC 603/604 B2 F5 C
(BX1029)	◇	DCAT ARC 603/604 B2 F5 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	100.000	100.000	65.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

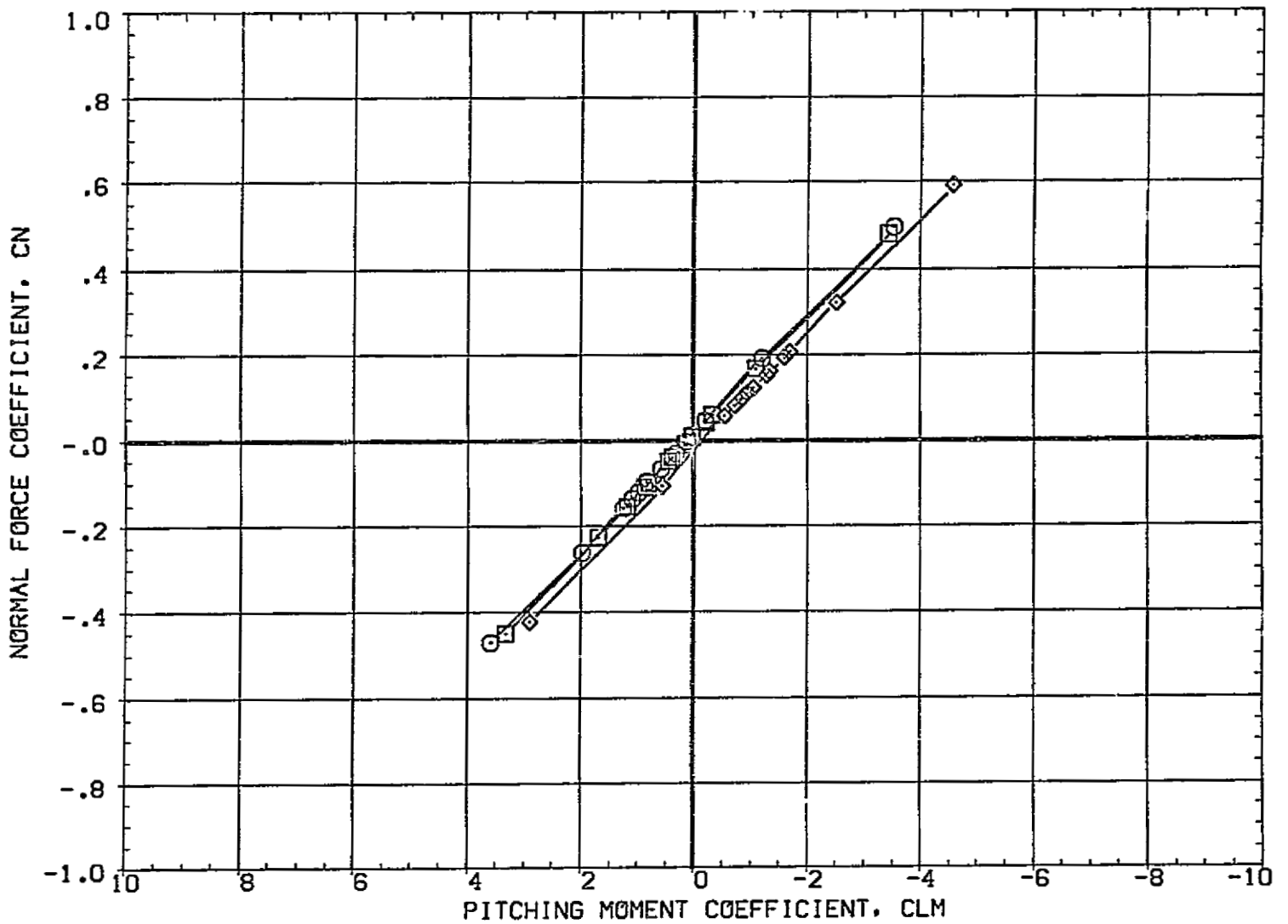


PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1027)		DCAT ARC 603/604 B2 F5 C	.000	.000	100.000	86.000
(BX1028)		DCAT ARC 603/604 B2 F5 C	.000	40.000	100.000	86.000
(BX1029)		DCAT ARC 603/604 B2 F5 C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



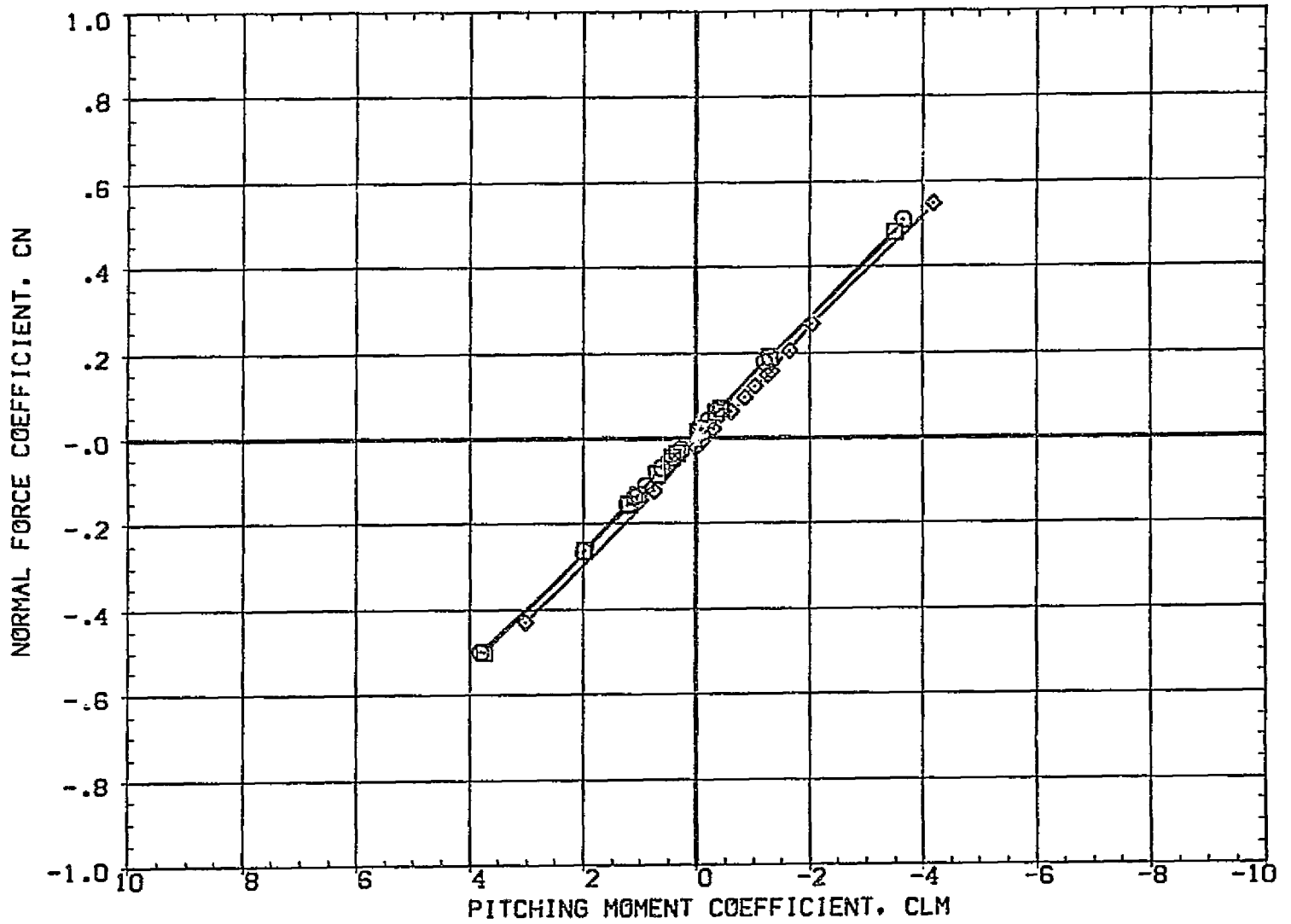
PITCH MODULATION EFFECT

(B)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BX1027)	○	DCAT ARC 603/604 B2 F5 C
(BX1028)	□	DCAT ARC 603/604 B2 F5 C
(BX1029)	◇	DCAT ARC 603/604 B2 F5 C

BETA	P-MOD	Y-MOD	POJ/PF
.000	.000	100.000	86.000
.000	40.000	100.000	86.000
.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

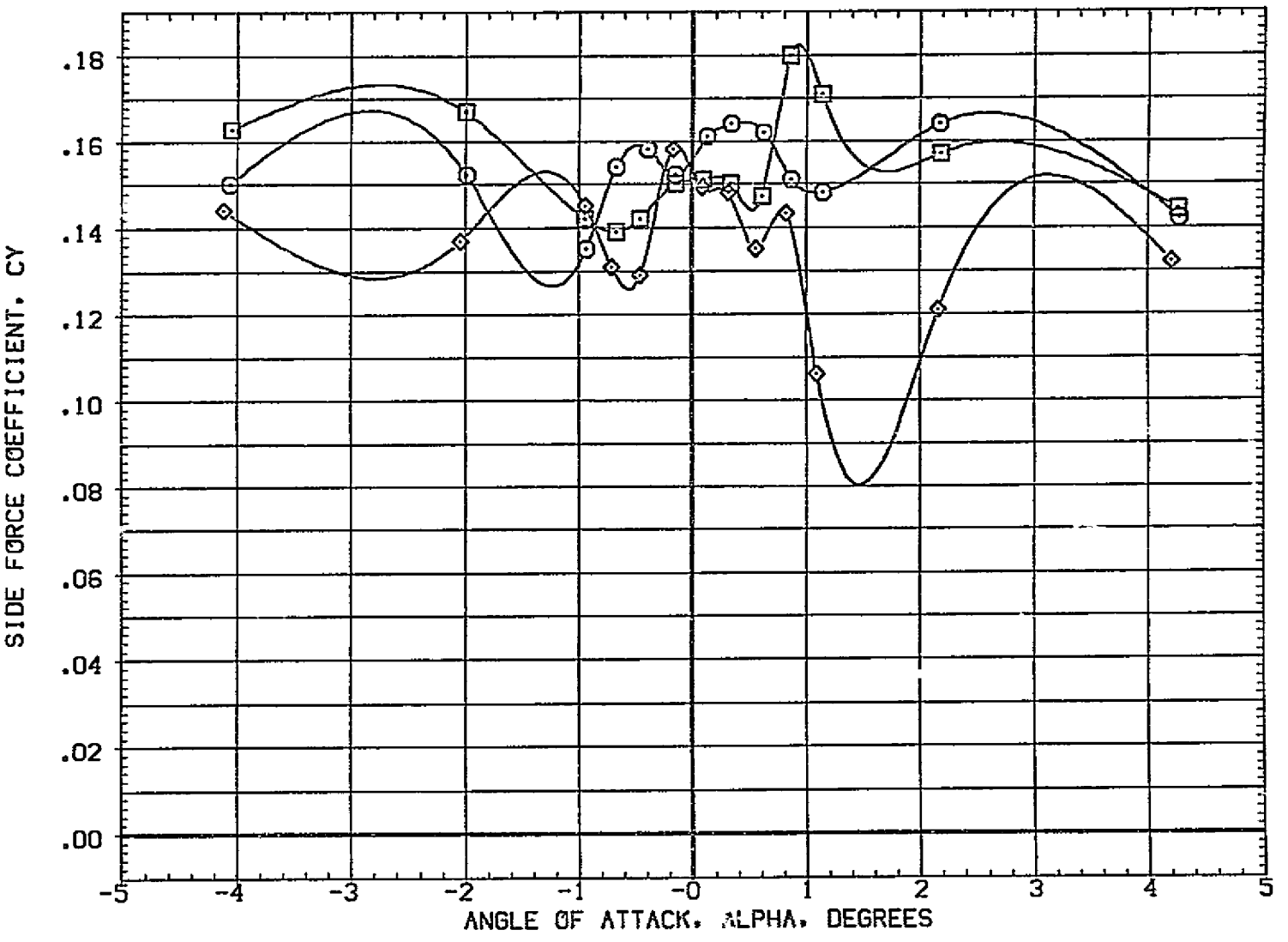


PITCH MODULATION EFFECT

(C)MACH = 1.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POV/PF
(BX1027)	○	DCAT ARC 603/604 B2 FS C	.000	.000	100.000	86.000
(BX1028)	□	DCAT ARC 603/604 B2 FS C	.000	40.000	100.000	86.000
(BX1029)	◇	DCAT ARC 603/604 B2 FS C	.000	100.000	100.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

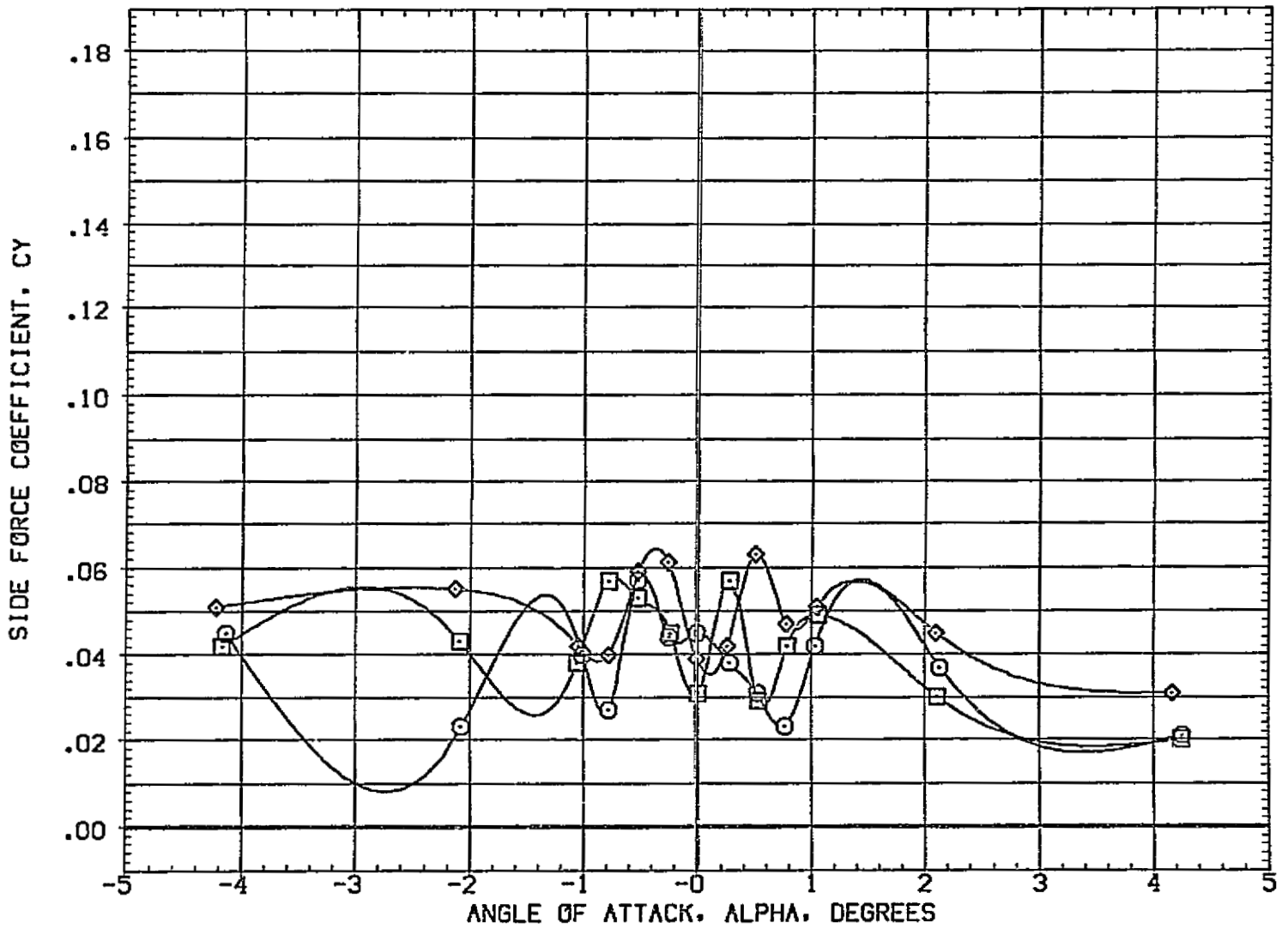


PITCH MODULATION EFFECT

(A)MACH = 0.64

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POL/FF
(BX1027)	□	DCAT ARC 603/604 B2 F5 C	.000	.000	100.000	85.000
(BX1028)	⊡	DCAT ARC 603/604 B2 F5 C	.000	40.000	100.000	86.000
(BX1029)	◇	DCAT ARC 603/604 B2 F5 C	.000	100.000	100.000	85.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT

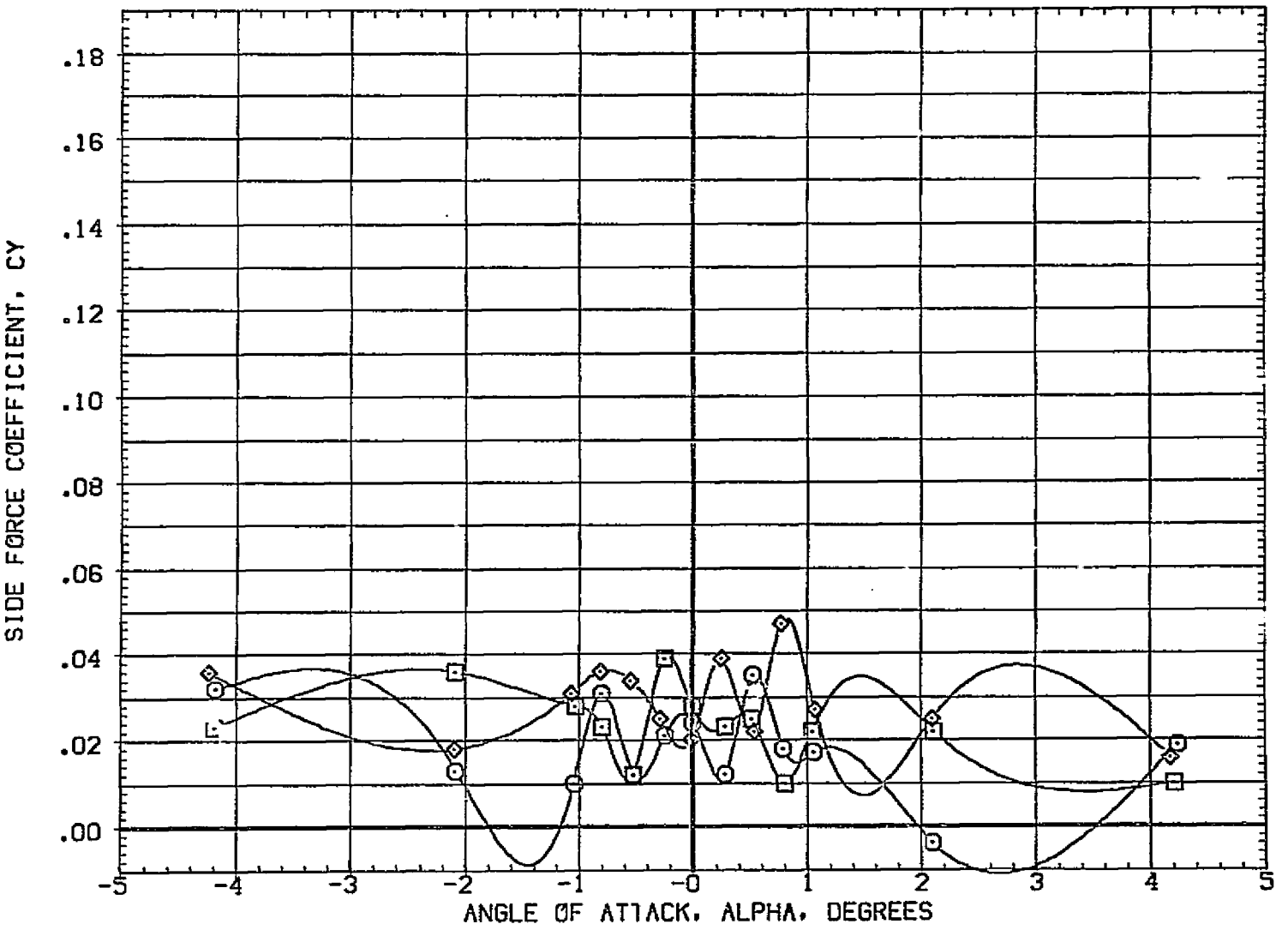


PITCH MODULATION EFFECT

(B)MACH = 0.95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	P-MOD	Y-MOD	POJ/PF
(BX1027)	○	DCAT ARC 603/60- B2 FS C	.000	.000	100.000	86.000
(BX1028)	□	DCAT ARC 603/604 B2 FS C	.000	40.000	100.000	86.000
(BX1029)	◇	DCAT ARC 603/604 B2 FS C	.000	100.000	100.000	86.000

REFERENCE INFORMATION		
SREF	.1100	SQ.FT.
LREF	.3750	FT.
BREF	.3750	FT.
XMRP	.0000	FT.
YMRP	.0000	FT.
ZMRP	.0000	FT.
SCALE	125.0000	PERCNT



PITCH MODULATION EFFECT

(C)MACH = 1.00