

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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Ranger VIII Photographic Parameters

W. E. Kirhofer

D. E. Willingham

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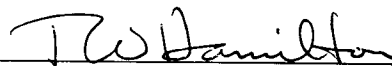
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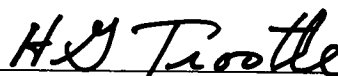
W. E. Kirhofer

D. E. Willingham

Approved by:



T. Hamilton, Manager
Systems Analysis Section



H. G. Trostle, Manager
Space Instruments Section

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CALIFORNIA INSTITUTE OF TECHNOLOGY
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CONTENTS

I. Introduction	1
II. The <i>Ranger</i> Television System	1
III. Method of Computation of Spacecraft-Photograph Parameters	3
A. Computer Program Description	3
B. Solution for Camera Parameters	3
C. Assumptions and Accuracies	3
D. Location of Points Within Each Camera Frame	5
IV. Content of Tables	6
A. Time- and Camera-Independent Parameters	6
B. Time- and Camera-Dependent Parameters	7
References	13

TABLES

1. Camera characteristics	2
2. Preflight focal-length determinations	3

FIGURES

1. Reticle dimensions for F-channel cameras	2
2. Reticle dimensions for P-channel cameras	2
3. Reticle number assignment, F-channel cameras	4
4. Reticle number assignment, P-channel cameras	5
5. Definition of subsolar, sub-Earth, and vertical impact points	6
6. Definition of path and azimuth angles	7
7. Definition of azimuth directions	8

FIGURES (Cont'd)

8. Mapping of a circle into image plane	9
9. Possible loci of semimajor axes of length A , resulting from mapping of surface circle with radius A^*	10
10. Definition of base dimension d and possible loci of semimajor axes of length A , resulting from mapping of surface circle with radius A^*	11
11. Definition of AZPHAZ and photometric angles	12

ABSTRACT

Photographic parameters necessary for detailed interpretation of the *Ranger VIII* pictures are listed for selected photographs, including all photographs published in the *Ranger VIII* atlases. Parameter accuracies and the method of data generation are discussed.

I. INTRODUCTION

This Report is intended as a supplementary tool for use in the analysis of the *Ranger VIII* photographs of the Moon. As such, it contains a comprehensive list of photographic parameters necessary for the detailed interpretation of the unrectified *Ranger VIII* photographic atlases and film strips. The intent is to supply data in a form useful to the largest possible audience, including those who do not have photographic facilities at their disposal for rectification of the pictures. How-

ever, additional data are supplied for use in reproducing the object scene geometry.

A brief description of the method, assumptions, and accuracies which characterize the computation of the tabular photographic data is given. Each block of tabular data is identified by a tabular data number, the atlas frame number (if appropriate), and the frame number appearing on the original film recording of the mission.

II. THE RANGER TELEVISION SYSTEM

The *Ranger* Block III spacecraft television system contained six cameras, divided into two separate channels designated F and P. The complete system has been discussed adequately in the *Ranger* atlas series; however, the camera characteristics are repeated here (Table 1).

The reticle pattern deposited on the faceplate of each vidicon differed for the F and P channels. The reticle patterns and the associated dimensions of the F channel cameras are shown in Fig. 1. Because of the decreased target size used for the P cameras, the reticle pattern was

Table 1. Camera characteristics

Characteristic	Camera					
	A	B	P ₁	P ₂	P ₃	P ₄
Focal length, mm	25	76	76	76	25	25
f number	1.0	2.0	2.0	2.0	1.0	1.0
Frame time, sec	2.56	2.56	0.2	0.2	0.2	0.2
Horizontal frequency, cps	450	450	1500	1500	1500	1500
Exposure time, msec	5	5	2	2	2	2
Field of view, ^a deg	25	8.4	2.1	2.1	6.3	6.3
Target size, mm	11	11	2.8	2.8	2.8	2.8
Scan lines	1150	1150	300	300	300	300
Time between frames, sec	5.12	5.12	0.84	0.84	0.84	0.84

^aThe actual field of view in one direction was somewhat smaller than the given numbers because of the presence of a mask at the edge of the vidicon target which was used to determine scene black on each scan of the electron beam.

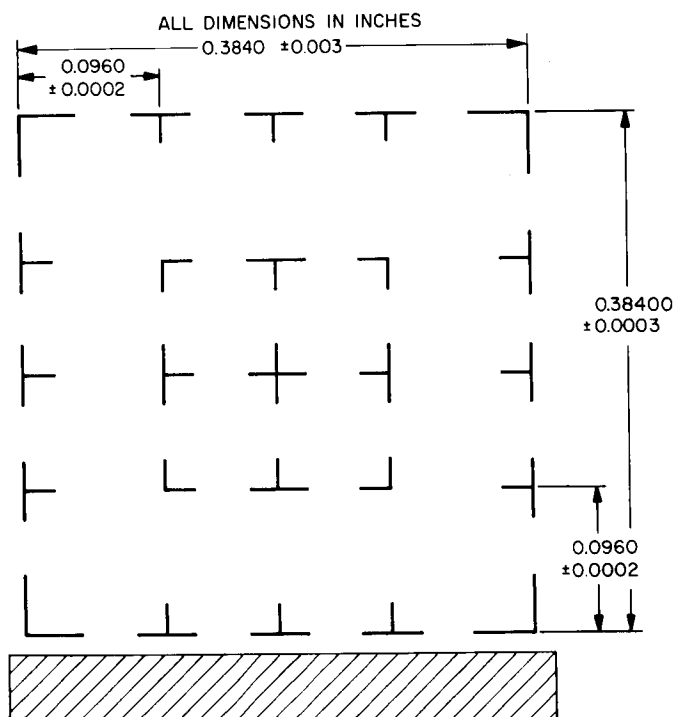


Fig. 1. Reticle dimensions for F-channel cameras

designed differently. The pattern type and dimensions are shown in Fig. 2.

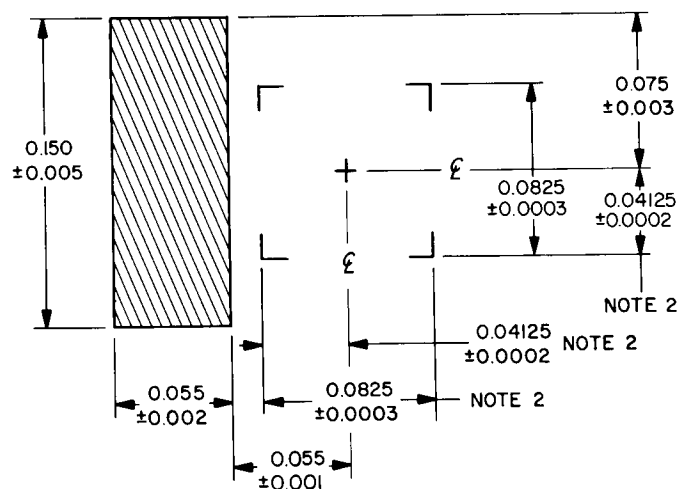


Fig. 2. Reticle dimensions for P-channel cameras

In some cases, it was necessary to use a vidicon tube with an F-type reticle pattern for a P camera. In these instances, only the center reticle is visible as all other reticles fall outside the P-camera target area. This was the case for the *Ranger VIII* P₂ camera.

III. METHOD OF COMPUTATION OF SPACECRAFT-PHOTOGRAPH PARAMETERS

A. Computer Program Description

The photographic data contained in this report were generated by a computer program which uses a hyperbolic approximation to the spacecraft trajectory near impact (Ref. 1). Knowledge of the attitude-sensor locations within the spacecraft and the sensor stimuli locations (Sun and Earth) in Moon-centered coordinates permitted computation of the spacecraft orientation. The oscillations and motion of the spacecraft as determined by the telemetry data were incorporated as a correction to the calculated orientation. Preflight calibration data were utilized to provide an initial determination of the camera system pointing direction in terms of spacecraft coordinates. The computer program spacecraft-camera model could then be used to compute the location of any picture point on the lunar surface in terms of lunar latitude-longitude coordinates.

For accurate photographic parameter computations, however, one cannot rely completely on preflight calibration data, and a verification or derivation of the camera parameters from the flight data is necessary. Among these camera parameters are camera cycle time, focal length, vidicon target dimensions, and true camera orientation within the spacecraft. With the knowledge of these parameters and the indicated spacecraft characteristics, the mapping from the Moon to the camera vidicon surface is then completely specified.

B. Solution for Camera Parameters

The camera cycle time during actual flight could be verified by postflight examination of the magnetic tapes which recorded the data along with an accurate 1-Mc time base signal. The postflight determinations of cycle time yielded values that deviated less than 0.01% from the design value; however, the postflight values were still used in the computations. Because of shutter stroke unknowns, the time at which the last picture was exposed could be determined no more accurately than ± 0.002 sec. This value may be of some consequence in the computations for the last picture parameters but certainly is of little significance for all other picture computations.

The preflight evaluation of the camera pointing direction within the spacecraft may not be representative of flight alignment for several reasons, among which are accuracy of original data, biases in the spacecraft sensor

system, and launch vibrations. The interrelationship of the cameras was determined from the flight data by noting the movement of common surface points through various pictures from each camera. This procedure makes possible a very accurate determination of the overlapping fields of view. In addition, the overall pointing direction of the camera system could be determined accurately by adjusting the program pointing parameters such that, at a given time, the computed observed points corresponded to those obtained from the mission data. Such prominent features as Alphonsus, Ritter, and Sabine were used for this determination.

On the basis of the results of the *Ranger VII* reticle placement and focal-length analysis (Ref. 2), it was assumed that the theoretical reticle locations and the preflight measured focal lengths were correct. The focal-length values assumed for the data generation are listed in Table 2.

Table 2. Preflight focal-length values

Camera	Preflight lens focal length, mm
A	26.09
B	74.60
P ₁	74.60
P ₂	74.86
P ₃	25.80
P ₄	25.80

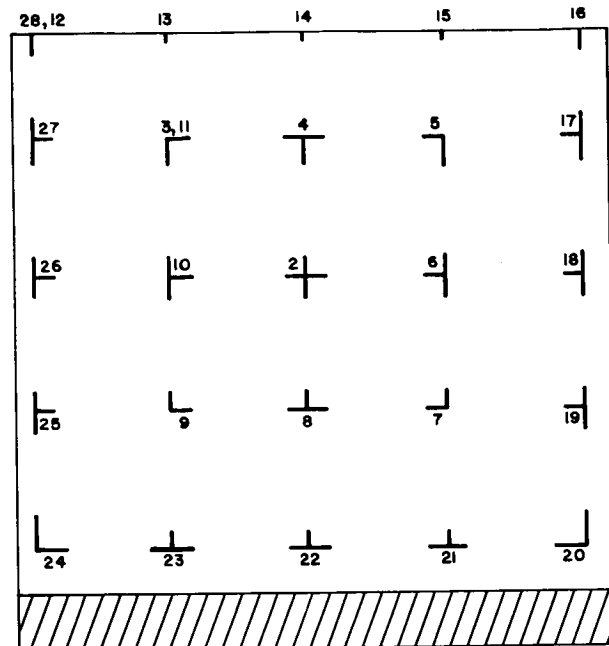
C. Assumptions and Accuracies

It has been assumed thus far that the trajectory can be approximated by a hyperbolic path (where the parameters are matched at impact with the true path), and that the theoretical reticle locations and the preflight measured focal lengths are correct. One other assumption made of necessity for the table generation was that of the Moon being a spherical body of radius equal to that chosen for the impact location.

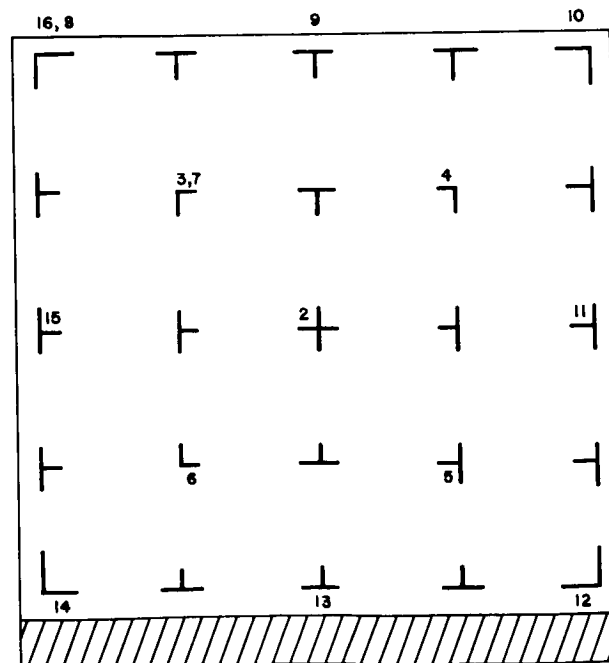
The assumptions of the reticle locations and focal lengths were previously shown to have been reasonable, at least in comparison to the observable data scatter

(Ref. 2). A comparison study of hyperbolic trajectory approximation to the integrated trajectory model has shown differences in altitude and time computations of less than 0.01% in the worst case. Finally, since all the

computations were referenced to zero time at impact, and since the trajectories were steep with respect to the surface altitude variations, the assumption of a spherical Moon caused negligible errors.



A



B

Fig. 3. Reticle number assignment, F-channel cameras

Further, the impact point specified by the Aeronautical Chart and Information Center* has been used. No uncertainties have been quoted for this point, but the latest orbit determination from tracking data gives a $1-\sigma$ uncertainty ellipse of 0.10×0.03 deg semimajor and -minor axis dimensions, and a value of 0.19 deg magnitude difference from the ACIC point.

D. Location of Points Within Each Camera Frame

In determining the points within each frame for which to compute photographic parameters, it is logical to use

*United States Air Force, St. Louis, Missouri.

the reticle locations. Sets of such points were chosen, and each reticle for which calculations were made was given a number which corresponded to a point number in the tabular data (see Figs. 3 and 4).

A special problem arose, however, where a reticle was only partially shown or where no corner reticles existed (as in the case of camera P_2). In the case of a partial reticle, the point was chosen at the intersection of the reticle and the edge of the frame. In the case of camera P_2 , points were selected at the two corners opposite the mask and two other points were constructed as shown in Fig. 4.

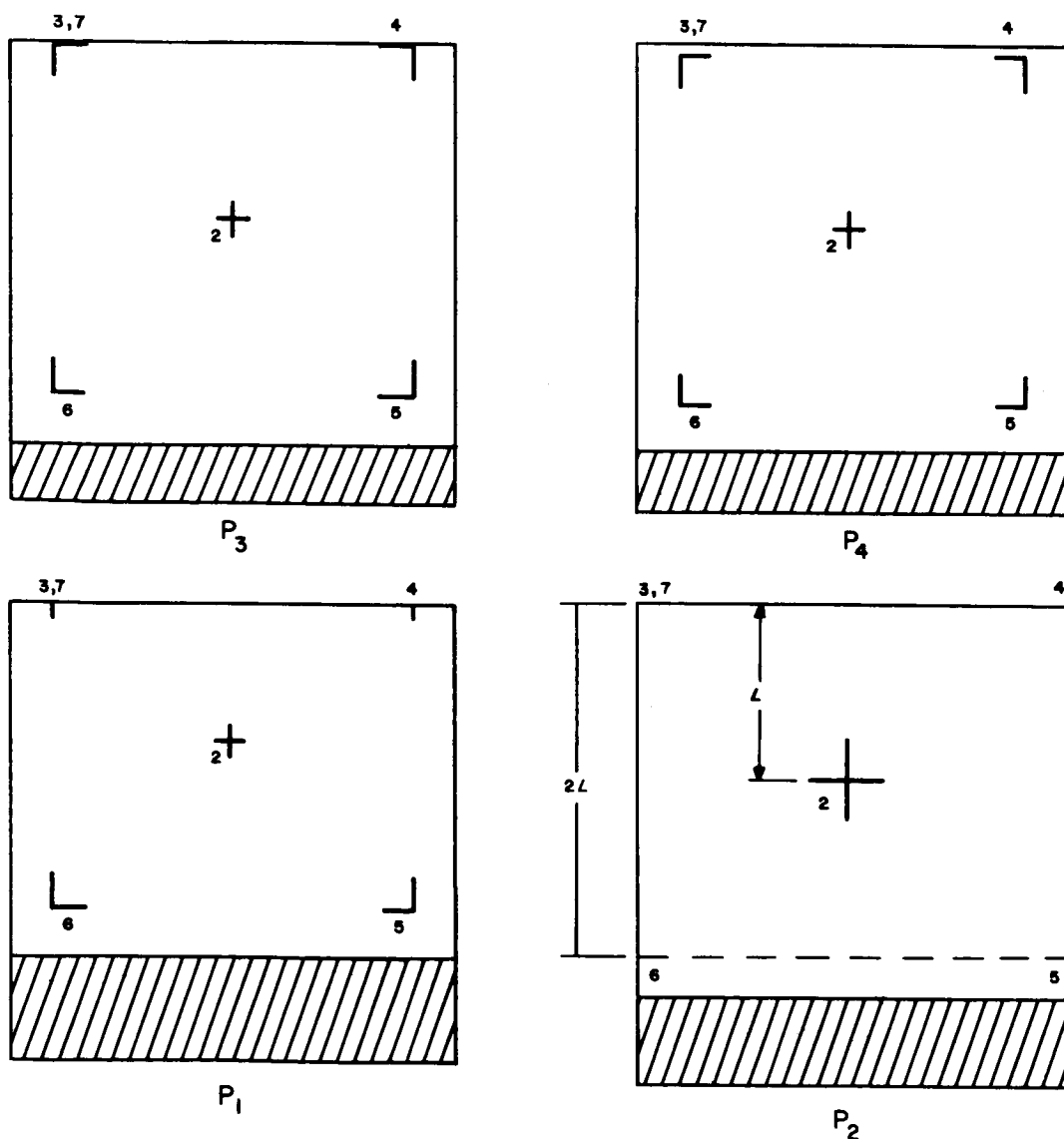


Fig. 4. Reticle number assignment, P-channel cameras

IV. CONTENT OF TABLES

A. Time- and Camera-Independent Parameters

The first page of the tabular data lists those quantities which are essentially time- and camera-independent for the duration of the picture-taking sequence. These quantities are particularly useful in reconstructing the object scene geometry on, say, a spherical globe (Fig. 5).

Subsolar point—the selenocentric latitude and longitude of the surface point intersected by the vector from the center of the Moon to the Sun.

Sub-Earth point—the selenocentric latitude and longitude of the surface point intersected by the vector from the center of the Moon to the center of Earth.

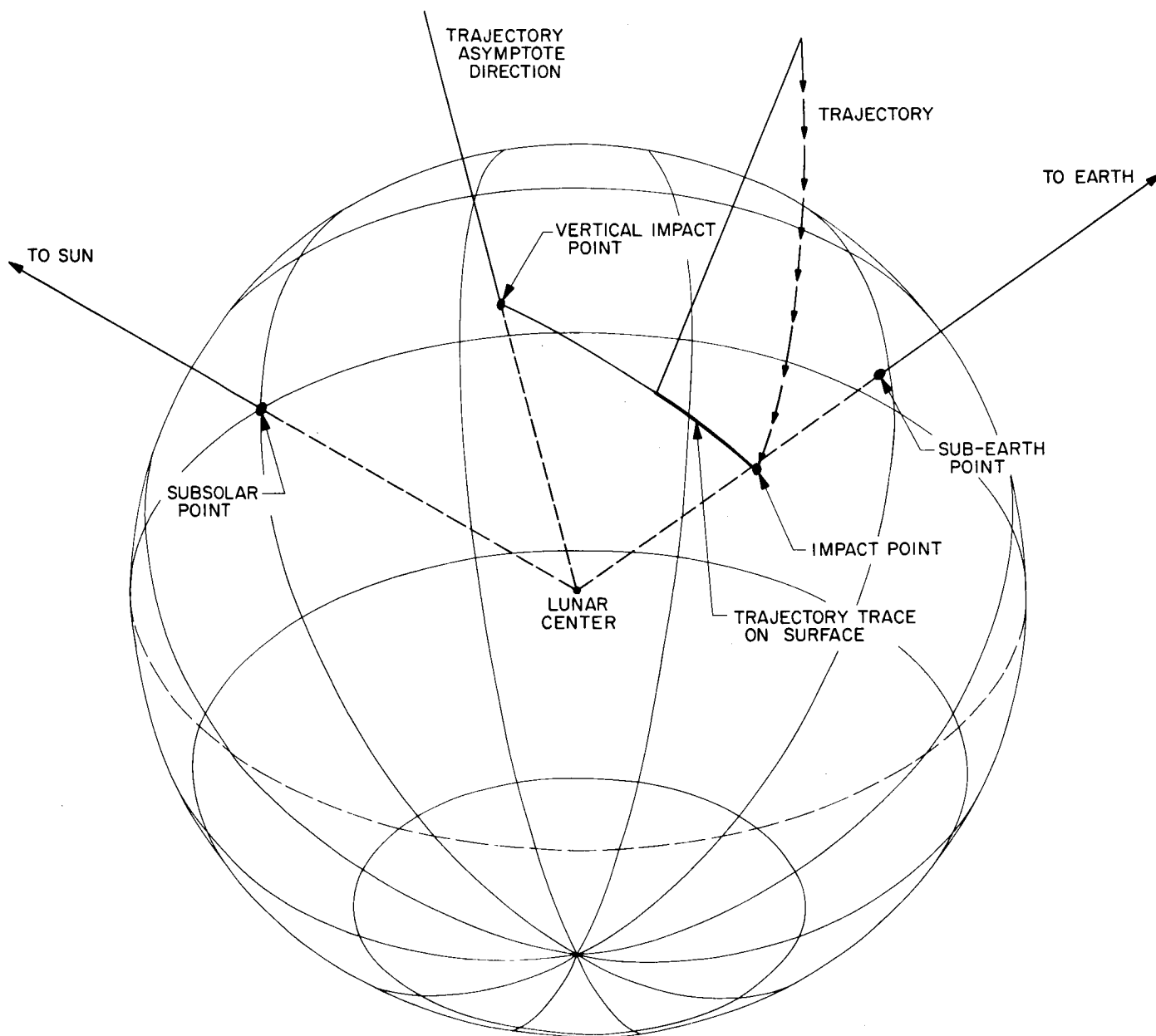


Fig. 5. Definition of subsolar, sub-Earth, and vertical impact points

Vertical impact point—the selenocentric latitude and longitude of the surface point intersected by the vector from the center of the Moon which describes the asymptotic direction of the spacecraft trajectory.

B. Time- and Camera-Dependent Parameters

The main body of the tables consists of data blocks pertaining to each picture listed. Each data block is divided into three sub-blocks or subgroupings:

1. Frame identification
2. Trajectory data
3. Photo data

1. Frame Identification

The parameters listed specify the photograph for which the data are generated.

TAB NO.—a number used to identify the table frames. The numbering starts at 1 and increases sequentially for each frame.

ATLAS NO.—the number that identifies, and is assigned to, those frames which appear in the *Ranger* atlas series. In the *Ranger VII* A and B atlases, the PHOTO NO. and ATLAS NO. are identical. In all other atlases, this is not the case.

POD NO.—the number of the frame as it appeared in the *primary original mission data*. In all cases, calculations are made for the last frame from each camera, so that the position of the frame in the overall sequence from camera initiation to impact is easily computed.

GMT—Greenwich Mean Time at which the photograph was exposed. This time is assumed to be known within ± 0.005 sec.

2. Trajectory Data

Trajectory data are those data necessary to describe the position and direction of movement of the spacecraft with respect to the Moon. The parameter headings are listed and explained below.

SEC TO IMPACT—the interval of time prior to spacecraft impact (seconds).

ALT—the spacecraft altitude above the surface of the Moon (kilometers). A spherical Moon of radius equal to that of the impact location is assumed.

LAT, LON—the subspacecraft point (degrees); i.e., the selenocentric latitude and longitude of the surface point intersected by the vector from the center of the Moon to the spacecraft.

R—the magnitude of the vector from the center of the Moon to the spacecraft (kilometers).

V—the spacecraft Moon-fixed velocity magnitude, i.e., with respect to the Moon's surface (kilometers per second) (Fig. 6).

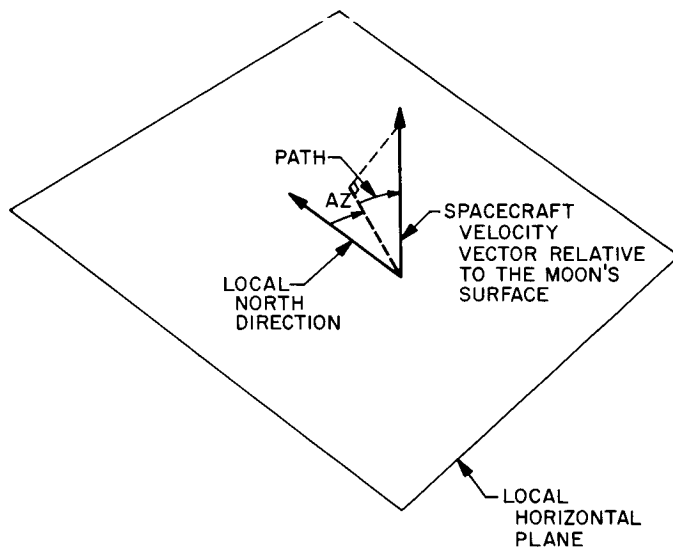


Fig. 6. Definition of path and azimuth angles

PTH—the angle between the Moon-fixed velocity vector and the local horizontal plane, positive upward (degrees) (see Fig. 6).

AZ—the azimuth direction of the projection of the Moon-fixed velocity vector into the local horizontal plane referenced to the local north direction, positive east of north (degrees) (see Fig. 6).

3. Photo Data

The parameters in this sub-block are a function of both photograph number and position within the photograph. For this reason, several points within the frame format are specified, and parameter values are derived for each of these points. The points within each camera format are taken at the reticle locations. Figures 3 and 4 identify the point number associated with each reticle of the *Ranger VIII* cameras. In some cases, data are not derived for all reticles. Note also that the number 1 is not used

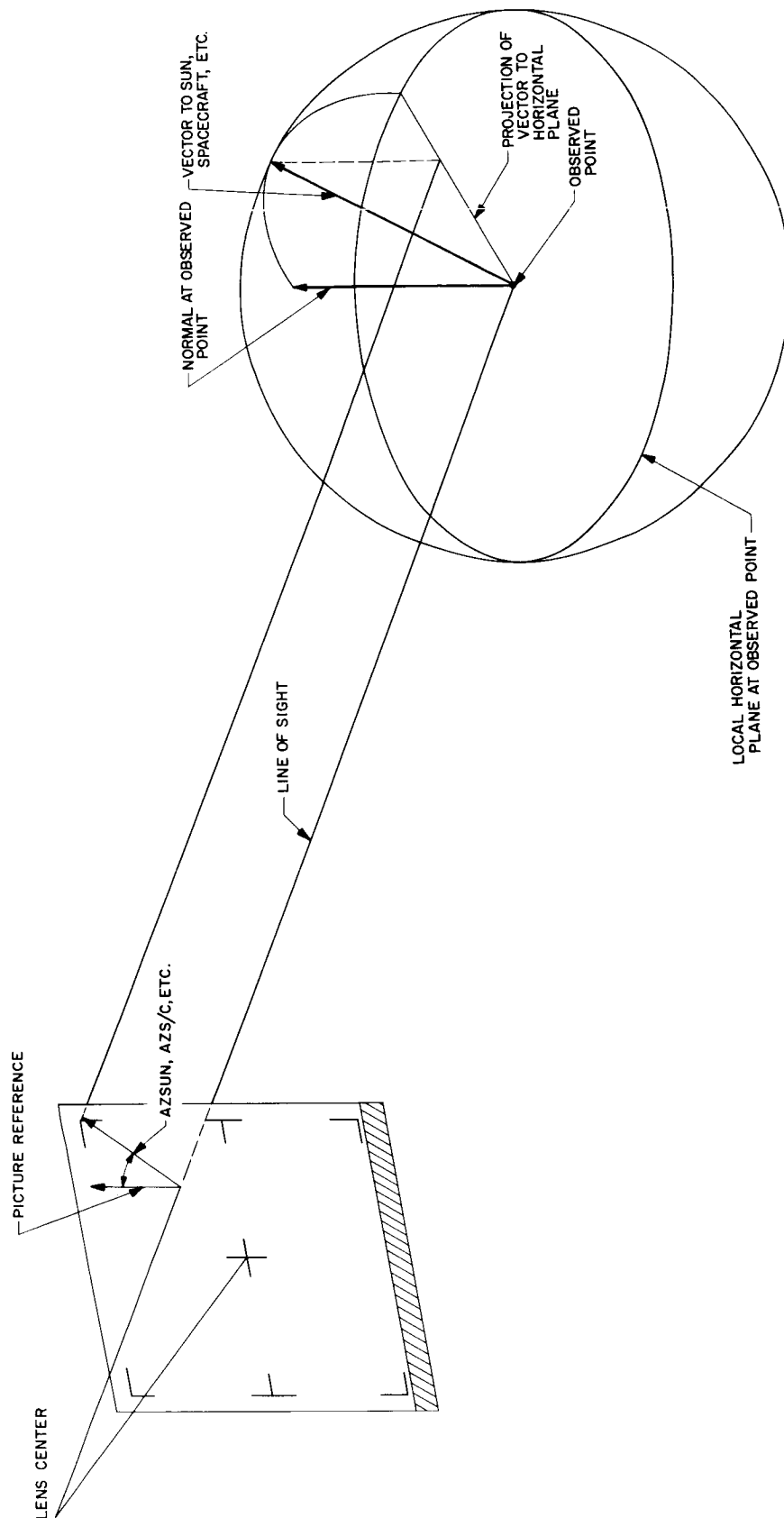


Fig. 7. Definition of azimuth directions

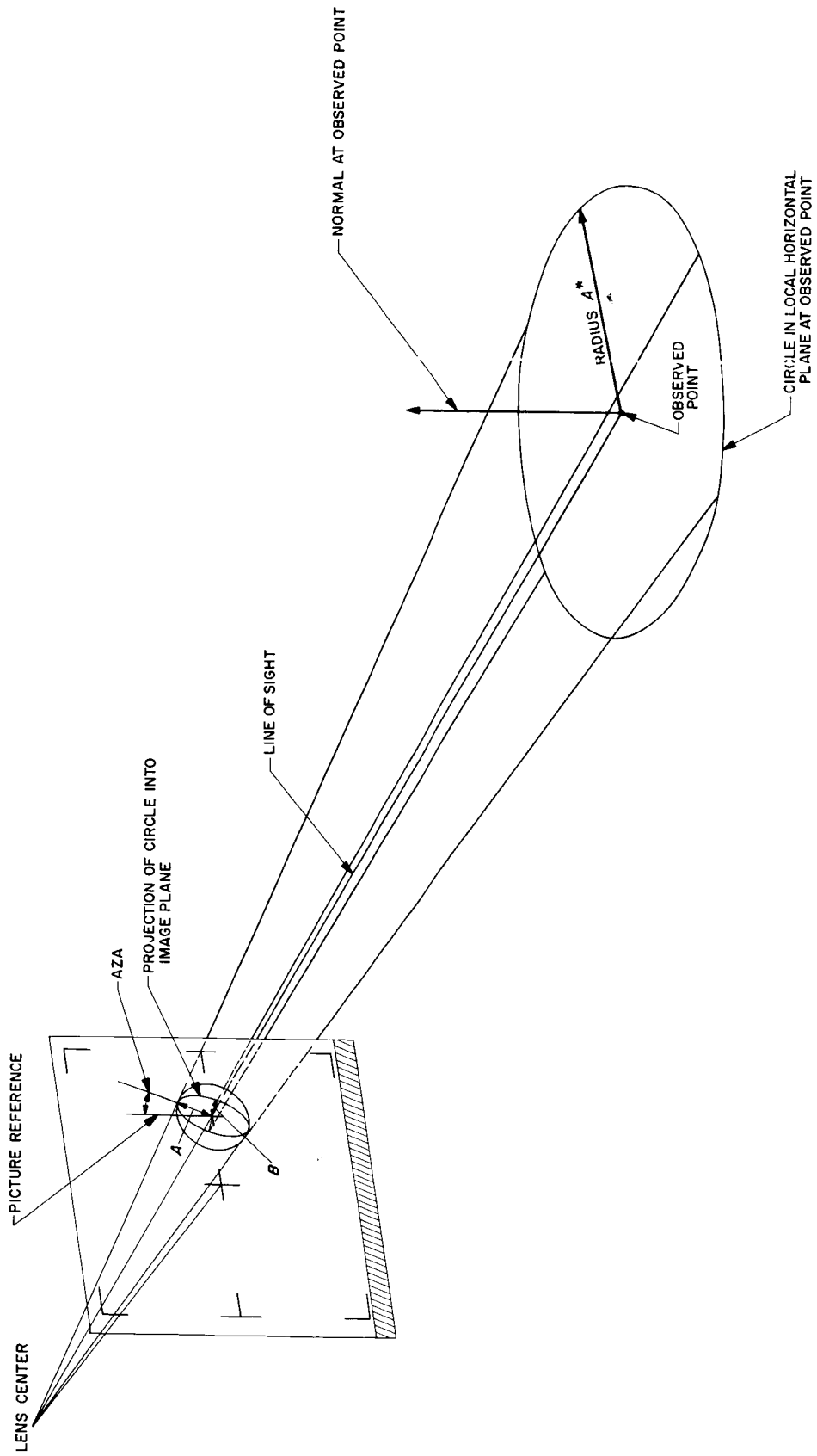


Fig. 8. Mapping of a circle into image plane

to identify the reticles; this number is assigned to the velocity vector and, when it appears in the table, the velocity vector is within or near the field of view of the camera. The specification of this point, then, locates the point of zero image motion within the frame.

The parameters for which calculations are made at each picture point are described below. In all that follows, a spherical Moon with radius equal to that of the impact location is assumed.

The user is cautioned that angles are not preserved in the rectification of photographs. Thus, the angular values given in these tables are valid only for the unrectified *Ranger* pictures.

PT—the point number or reticle for which the calculations are made (see Figs. 3 and 4).

LAT, LON—the surface point selenocentric latitude-longitude coordinates covered by the reticle (degrees), hereafter referred to as the *observed surface point*.

RANGE—the distance from the camera to the observed surface point (kilometers).

AZ S/C—the picture-plane azimuth angle to the spacecraft, with respect to the picture reference and positive clockwise (degrees). This azimuth is found by obtaining the projection of the observed-surface-point-to-spacecraft vector into the local horizontal plane, and then mapping the projection into the picture or image plane (Fig. 7).

AZN—the picture-plane azimuth angle to true lunar north, with respect to the picture reference and positive clockwise (degrees). This azimuth is found by obtaining the projection of the lunar-center-to-north-pole vector into the local horizontal plane and then mapping the projection into the picture plane.

AZSUN—the picture-plane azimuth angle to the Sun, with respect to the picture reference and positive clockwise (degrees). This azimuth is found by obtaining the projection of the lunar-center-to-Sun vector into the local horizontal plane and then mapping the projection into the picture plane (see Fig. 7).

The following quantities describe the “skewness” of the photographs. In particular, these quantities detail the manner in which a circle on the surface, centered at the observed surface point, is mapped into an ellipse in the picture plane (Fig. 8).

AZA—the picture-plane azimuth angle to the major axis of the ellipse resulting from the mapping of a circle on the surface into the picture plane, with respect to the picture reference and positive clockwise (degrees).

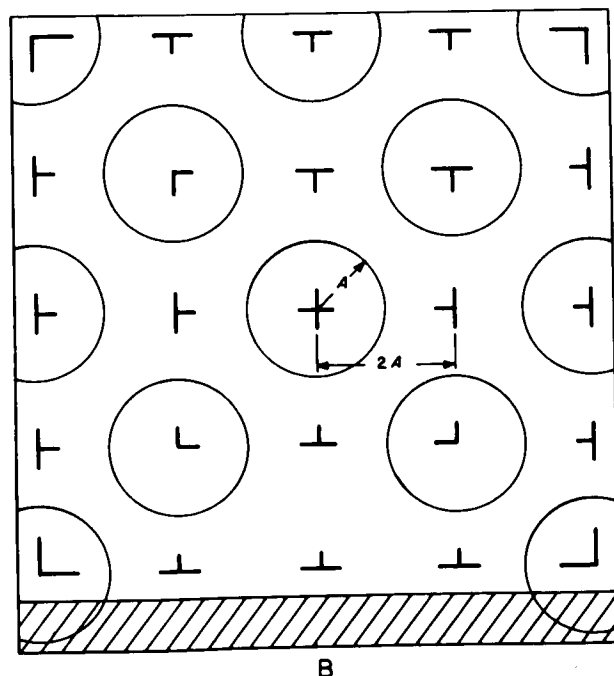
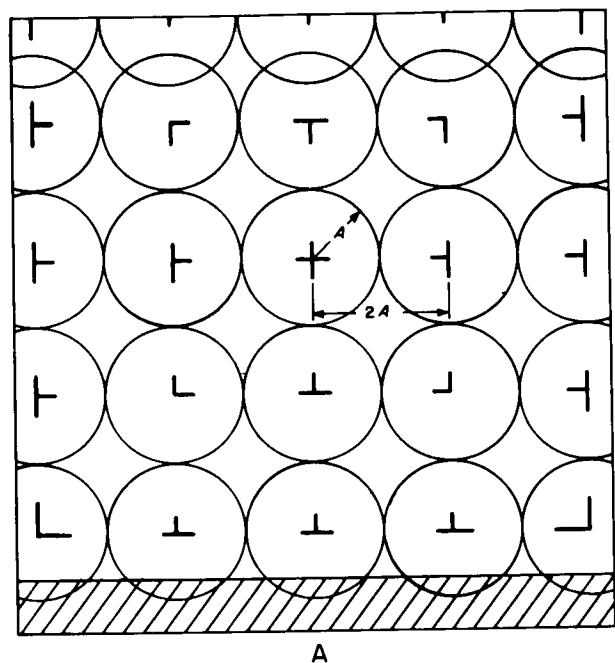


Fig. 9. Possible loci of semimajor axes of length A , resulting from mapping of surface circle with radius A^*

A^* —the radius of the circle on the surface that, upon being mapped into the picture plane, results in an ellipse of semimajor axis A (A^* in kilometers). In the case of the *Ranger* A and B cameras, the picture ellipse dimension A (Fig. 9) is specified as one-half the distance to the adjacent reticle. In the P cameras, the dimension A is related to the "base dimension" d as defined in Fig. 10. In Figs. 9 and 10, circles of radius A are circumscribed about each reticle for which data are derived. These circles indicate the locus of end points to which the semimajor axis of the ellipse resulting from imaging the surface circle of radius A^* will map.

B/A —the ratio of the semiminor to the semimajor axis of the ellipse resulting from the mapping of a circle on the surface into the picture plane.

The following quantities are useful for reproducing the photometric geometry and for photometric brightness to slope conversions.

AZPHAZ—the picture-plane azimuth angle to the phase plane, with respect to the picture reference and positive clockwise (degrees). This azimuth represents the line of intersection of the plane containing the

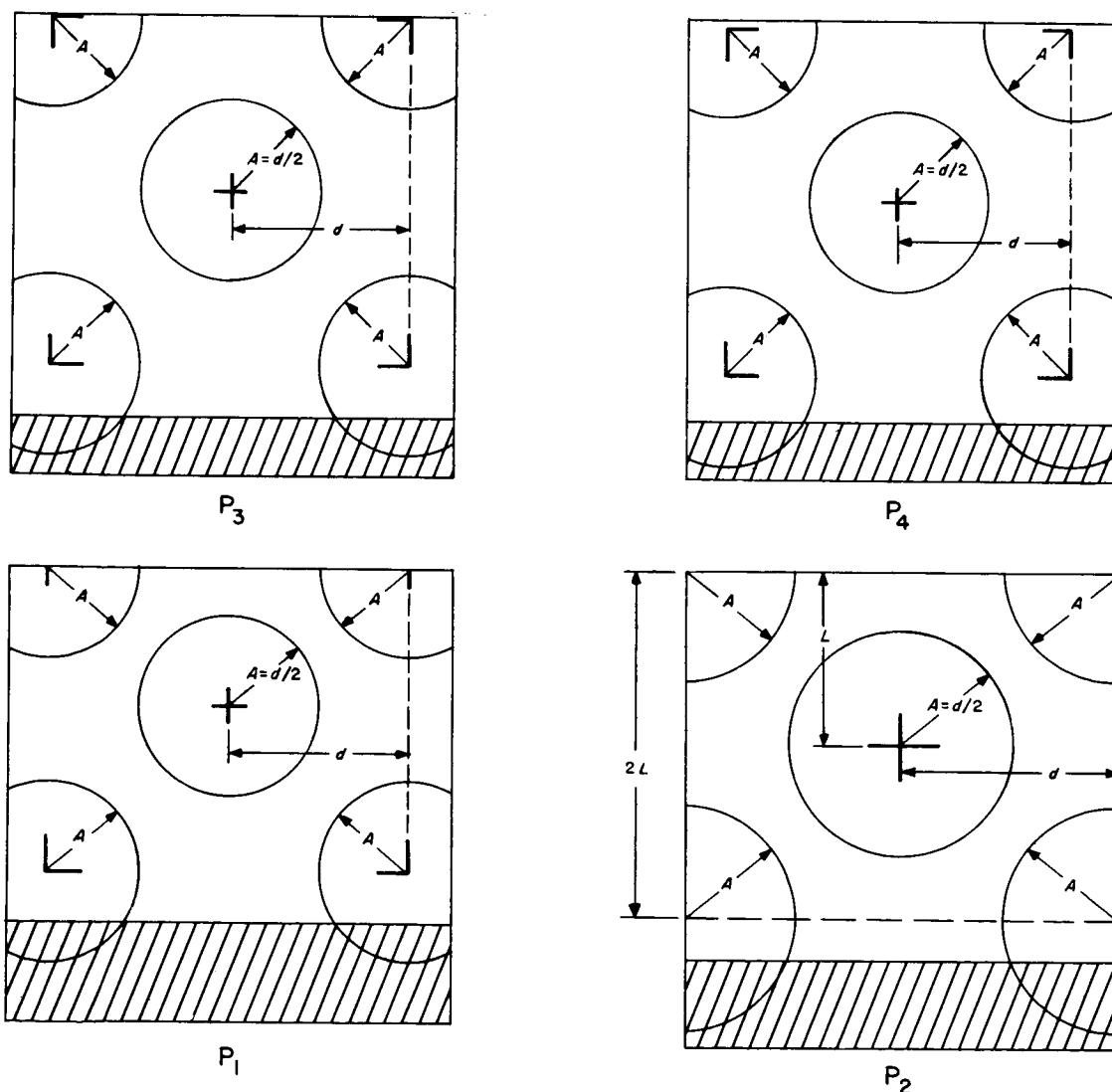


Fig. 10. Definition of base dimension d and possible loci of semimajor axes of length A , resulting from mapping of surface circle with radius A^*

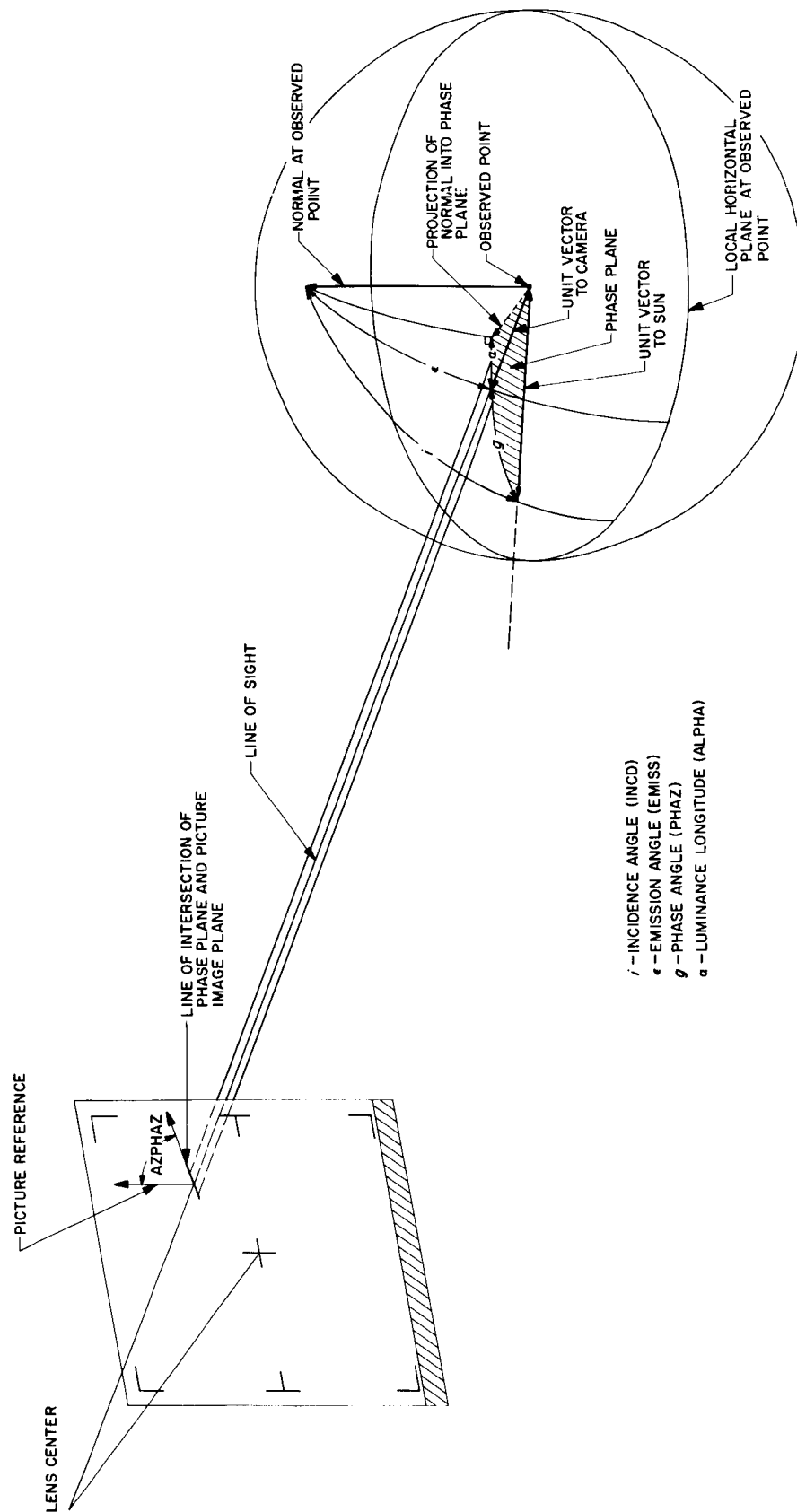


Fig. 11. Definition of AZPHAZ and photometric angles

phase angle (i.e., the phase plane) and the picture image plane. This is the only direction in which the picture may be scanned to derive exact elevation data when the two-angle lunar photometric function (Refs. 3 and 4) is used (Fig. 11).

INCD—the light incidence angle (degrees); i.e., the angle formed by the local normal (assuming a spherical Moon) and the vector from the observed surface point to the Sun.

PHAZ—the phase angle (degrees); i.e., the angle formed by the vector from the surface point to the Sun and the vector from the surface point to the camera.

EMISS—the emission angle (degrees); i.e., the angle formed by the local normal (assuming a spherical

Moon) and the vector from the surface point to the camera.

ALPHA—the luminance longitude angle (degrees). This angle is the projection of the emission angle into the phase plane with a sign convention applied. The angle is negative if it overlaps the phase angle and positive otherwise. The lunar photometric function is commonly written as a function of this angle and the phase angle.

The final two parameters of the table are used to provide a separate scaling technique from that of the surface circle mapping.

SCALE and PT to PT—the surface arc distance between the two points listed (kilometers).

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3. Rindfleisch, T. C., *A Photometric Method for Deriving Lunar Topographic Information*, Technical Report No. 32-786, Jet Propulsion Laboratory, Pasadena, California, September 15, 1965.
4. Willingham, D. E., *The Lunar Reflectivity Model for Ranger Block III Analysis*, Technical Report No. 32-664, Jet Propulsion Laboratory, Pasadena, California, November 2, 1964.

TIME- AND CAMERA-INDEPENDENT PARAMETERS

SUBSOLAR POINT

Latitude	Longitude
1.476°S	50.468°W

SUB-EARTH POINT

Latitude	Longitude
5.094°S	6.947°E

VERTICAL IMPACT POINT

Latitude	Longitude
13.585°S	41.738°W

TIME- AND CAMERA-DEPENDENT PARAMETERS

1

FEB. 20, 1965 9 HR 34 MIN 32 SEC 272 MS

TAB NO 1

ATLAS PHOTO NO 1

POD SEQUENCE NO 2

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LONG	R	V	PTH	AZ				
PHOTO DATA				1384.483		2510.08984	-7.267	-10.748	4245.590	1.922	-65.414	75.442				
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-10.586	-22.373	2572.93842	69.5	-6.2	-77.4	69.5	120.26037	0.940	-90.2	29.2	47.3	20.3	-18.8	0.	1-
3	-1.683	-30.577	2690.13766	101.1	-3.2	-98.0	3.6	124.59222	0.840	-85.7	19.7	52.8	33.6	-33.4	365.56408	2-3
4	-2.699	-21.658	2571.24454	108.5	-3.6	-94.2	3.7	119.63087	0.945	-85.3	28.6	47.5	19.7	-19.2	271.70119	3-4
5	-3.423	-13.698	2520.52493	138.8	-3.5	-92.4	4.9	116.78389	0.998	-84.8	36.6	42.2	8.2	-6.0	241.76137	4-5
6	-11.134	-14.225	2522.00107	38.1	-4.3	-81.2	56.9	117.36405	0.993	-90.2	37.1	41.9	8.7	-5.4	234.09080	5-6
7	-19.151	-14.913	2579.30884	15.1	-5.5	-71.2	34.7	119.46430	0.942	-95.6	38.9	42.2	21.0	-7.9	243.66174	6-7
8	-18.777	-23.574	2634.80865	42.8	-9.6	-63.6	50.4	122.58673	0.886	-95.2	31.4	47.5	28.1	-21.6	248.35297	7-8
9	-18.390	-33.421	2765.75378	57.7	-13.3	-49.9	60.0	128.14361	0.774	-94.7	23.7	52.8	39.9	-36.5	282.92355	8-9
10	-9.882	-31.513	2692.84152	77.7	-7.8	-69.1	75.7	125.31371	0.834	-90.2	20.5	52.6	33.9	-33.3	263.72982	9-10
11	-1.683	-30.577	2690.13766	101.1	-3.2	-98.0	3.6	124.59222	0.840	-85.7	19.7	52.8	33.6	-33.4	249.93202	10-11
12	8.425	-42.066	2992.79123	112.3	5.0	-150.4	17.1	135.08121	0.603	-82.1	12.8	58.4	54.3	-53.4	462.73289	11-12
13	6.179	-30.411	2748.09317	120.1	1.2	-121.4	20.0	125.59553	0.798	-81.5	21.3	53.3	38.5	-36.5	356.68114	12-13
14	4.796	-21.331	2621.78354	134.8	-1.2	-108.9	25.7	120.48665	0.909	-80.8	29.6	48.1	26.6	-22.2	276.96384	13-14
15	3.869	-13.298	2567.58249	163.6	-2.9	-102.5	38.2	117.54052	0.964	-79.9	37.3	42.9	19.1	-9.1	244.22997	14-15
16	3.262	-5.653	2570.28311	-157.3	-4.2	-98.5	70.0	116.23869	0.974	-78.9	44.9	37.8	19.6	3.5	231.87566	15-16
17	-3.962	-6.098	2524.59270	-128.8	-3.1	-91.3	13.7	114.66706	0.993	-84.3	44.2	37.0	9.6	6.8	218.61326	16-17
18	-11.577	-6.446	2526.37485	-49.0	-2.1	-83.3	24.7	115.91302	0.999	-90.3	44.6	36.7	10.2	7.5	231.50972	17-18
19	-19.527	-6.678	2582.90112	-21.0	-1.2	-76.1	9.8	118.08731	0.951	-96.2	46.3	37.0	21.5	5.3	240.91326	18-19
20	-28.382	-6.771	2705.71884	-13.1	0.0	-70.7	4.3	122.03108	0.847	-102.0	49.4	38.0	30.0	-0.5	268.22015	19-20
21	-28.075	-15.906	2704.42410	9.3	-7.6	-64.0	22.6	123.55149	0.838	-100.9	42.3	43.0	34.9	-14.1	243.89750	20-21
22	-27.931	-25.623	2771.53696	22.2	-14.9	-54.6	36.9	127.19656	0.775	-100.0	35.4	48.2	40.3	-28.4	259.84635	21-22
23	-28.010	-37.099	2932.03195	43.7	-21.7	-41.1	47.2	134.03559	0.644	-99.2	29.4	53.4	50.9	-44.4	306.69946	22-23
24	-28.618	-54.229	3291.35785	53.5	-28.6	-24.8	54.6	148.63848	0.378	-98.6	27.4	58.5	68.5	-65.9	456.76784	23-24
25	-17.966	-46.264	3023.86450	65.9	-16.7	-24.7	66.3	138.34384	0.571	-94.4	17.0	58.0	56.0	-54.3	391.11674	24-25
26	-8.891	-42.990	2921.21689	81.2	-8.8	-41.3	79.6	134.19036	0.650	-90.2	10.4	57.9	50.3	-49.9	291.29281	25-26
27	-0.142	-41.742	2915.73657	97.9	-1.9	-114.8	3.9	133.27534	0.657	-86.0	8.6	58.0	50.0	-49.9	267.65178	26-27
28	8.425	-42.066	2992.79123	112.3	5.0	-150.4	17.1	135.08121	0.603	-82.1	12.8	58.4	54.3	-53.4	259.68520	27-28

RA-VIII CAMERA FA

2

FEB. 20, 1965 9 HR 41 MIN 1 SEC 331 MS

TAB NO 2

ATLAS PHOTO NO 2

POD SEQUENCE NO 154

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LONG	R	V	PTH	AZ				
PHOTO DATA				995.365		1820.77521	-5.983	-5.861	3556.275	2.035	-61.901	74.925				
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-7.251	-8.785	1825.95273	63.4	-3.3	-87.1	63.4	85.34590	0.994	-90.2	41.8	47.3	6.2	-5.5	0.	1-
3	-1.212	-14.253	1867.78920	116.4	-2.5	-95.5	14.9	86.55350	0.956	-85.6	36.1	52.8	18.6	-17.3	246.39766	2-3
4	-1.621	-8.484	1834.07306	146.1	-2.8	-94.0	27.6	85.35158	0.989	-85.3	41.8	47.5	9.9	-6.2	175.11274	3-4
5	-1.923	-2.871	1833.82391	-146.4	-2.9	-92.8	2.0	84.97403	0.994	-84.8	47.4	42.2	9.8	4.7	170.21195	4-5
6	-7.530	-3.126	1825.81131	-63.1	-2.4	-87.7	88.0	84.96841	0.999	-90.2	47.4	41.9	6.1	5.4	170.01687	5-6
7	-13.218	-3.338	1850.70596	-21.6	-1.9	-82.7	88.8	85.75274	0.975	-95.6	48.0	42.2	14.8	4.1	172.41795	6-7
8	-12.958	-9.155	1851.03610	21.9	-4.0	-83.5	33.0	86.14095	0.971	-95.1	42.3	47.5	14.9	-6.9	171.78406	7-8
9	-12.699	-15.138	1885.88187	50.2	-6.1	-77.5	52.8	87.38622	0.937	-94.7	36.6	52.8	21.8	-18.1	176.88217	8-9
10	-6.920	-14.599	1859.65724	80.5	-4.2	-86.3	76.2	86.54350	0.961	-90.2	36.0	52.6	16.9	-16.7	175.78413	9-10
11	-1.212	-14.253	1867.78920	116.4	-2.5	-95.5	14.9	86.55350	0.956	-85.6	36.1	52.8	18.6	-17.3	173.18725	10-11
12	4.939	-20.363	1982.03719	123.8	0.7	-109.2	26.9	89.64715	0.857	-82.1	30.6	58.4	34.0	-31.1	262.48900	11-12
13	4.232	-14.083	1907.01485	138.1	-1.0	-103.6	36.9	87.33872	0.925	-81.5	36.7	53.3	25.0	-19.7	190.81240	12-13
14	3.736	-8.250	1871.63551	163.3	-2.3	-100.0	56.3	86.08653	0.959	-80.7	42.4	48.1	19.3	-8.7	176.90543	13-14
15	3.407	-2.580	1871.01143	-163.5	-3.5	-97.4	1.2	85.69699	0.964	-79.9	48.0	42.9	19.2	2.0	171.68131	14-15
16	3.229	3.155	1904.16739	-138.3	-4.6	-95.2	35.6	86.14012	0.939	-78.9	53.7	37.8	24.6	12.7	173.50287	15-16
17	-2.128	2.805	1866.33305	-116.5	-2.9	-91.8	63.5	85.38780	0.970	-84.3	53.1	37.0	18.3	15.5	162.62088	16-17
18	-7.765	2.594	1858.33525	-80.4	-1.3	-88.1	25.5	85.37831	0.975	-90.3	53.1	36.7	16.6	16.4	170.84467	17-18
19	-13.488	2.546	1863.94707	-50.1	0.4	-84.4	55.0	86.18646	0.951	-96.2	53.6	37.0	21.5	15.0	173.36653	18-19
20	-19.545	2.685	1946.24582	-33.6	2.3	-81.3	66.6	87.92910	0.895	-102.0	54.9	38.0	30.1	11.4	183.49389	19-20
21	-19.225	-3.511	1911.33778	-12.4	-1.4	-78.3	88.6	87.43516	0.921	-100.9	49.1	43.0	25.6	0.4	177.30214	20-21
22	-18.980	-9.627	1912.20142	12.6	-5.0	-74.6	20.7	87.84738	0.916	-100.0	43.5	48.2	25.7	-10.5	175.19354	21-22
23	-18.802	-15.938	1949.91049	33.7	-8.5	-69.8	37.9	89.20719	0.880	-99.2	37.9	53.4	30.5	-21.7	180.93221	22-23
24	-18.699	-22.789	2030.21591	48.0	-11.9	-62.6	49.7	91.73854	0.809	-98.6	32.0	58.5	38.5	-33.3	196.51579	23-24
25	-12.433	-21.574	1959.93428	63.4	-7.9	-72.7	63.4	89.67021	0.870	-94.4	30.5	58.0	31.6	-29.6	193.65795	24-25
26	-6.517	-20.830	1931.23337	84.2	-4.9	-85.0	81.0	88.72739	0.896	-90.2	29.8	57.9	28.2	-28.1	180.58727	25-26
27	-0.667	-20.439	1939.95358	106.6	-2.0	-98.1	10.4	88.74828	0.891	-86.0	29.9	58.0	29.3	-28.7	177.59049	26-27
28	4.939	-20.363	1982.03719	123.8	0.7	-109.2	26.9	89.64715	0.857	-82.1	30.6	58.4	34.0	-31.1	169.81524	27-28

RA-VIII CAMERA FA

3

FEB. 20, 1965 9 HR 45 MIN 48 SEC 109 MS

TAB NO 3

ATLAS PHOTO NO 3

POD SEQUENCE NO 266

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LONG	R	V	PTH	AZ
				708.666	1300.97980	-4.613	-0.833	3036.480	2.148	-58.399	74.493
PHOTO DATA											
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ EMIS ALPHA SCALE PT-PT
2	-4.468	0.889	1302.80907	-97.1	-2.2	-90.5	82.9	60.89391	0.998	-90.1	51.3 47.3 4.0 4.0 0. 1- 2
3	-0.276	-2.968	1315.30435	151.4	-2.1	-94.3	89.4	60.94683	0.989	-85.6	47.4 52.8 11.2 -6.1 172.46087 2- 3
4	-0.429	1.057	1313.90576	-158.0	-2.5	-93.3	41.2	61.14534	0.987	-85.2	51.4 47.5 10.7 3.2 121.99489 3- 4
5	-0.533	5.158	1332.90532	-126.5	-2.9	-92.5	60.3	61.76273	0.966	-84.7	55.5 42.2 16.7 12.6 124.26300 4- 5
6	-4.612	4.984	1321.53647	-92.1	-1.9	-90.5	86.5	61.50110	0.977	-90.1	55.3 41.9 13.4 13.4 123.68094 5- 6
7	-8.684	4.811	1330.66899	-50.4	-1.0	-88.4	24.0	61.65877	0.969	-95.5	55.4 42.2 16.1 3.2 124.04952 6- 7
8	-8.498	0.740	1311.74765	-24.2	-2.0	-87.7	41.7	61.04491	0.990	-95.1	51.3 47.5 9.7 12.6 121.79475 7- 8
9	-8.317	-3.321	1313.14912	31.3	-2.9	-86.9	0.6	60.84729	0.992	-94.7	47.3 52.8 10.3 -6.1 121.76331 8- 9
10	-4.301	-3.130	1304.27164	95.3	-2.5	-90.6	87.2	60.69763	1.000	-90.1	47.3 52.6 5.4 -5.4 121.76331 9-10
11	-0.276	-2.968	1315.30435	151.4	-2.1	-94.3	89.4	60.94683	0.989	-85.6	47.4 52.8 11.2 -6.1 122.03876 10-11
12	3.791	-6.938	1365.71986	141.6	-0.7	-99.5	63.3	61.77991	0.947	-82.0	43.7 58.4 23.6 -17.3 172.10683 11-12
13	3.568	-2.838	1343.95723	163.8	-1.8	-97.5	89.3	61.55638	0.963	-81.4	47.8 53.3 19.3 -8.1 124.13595 12-13
14	3.426	1.235	1342.73526	-167.9	-2.9	-95.8	25.3	61.76043	0.960	-80.7	51.8 48.1 19.1 1.1 123.22386 13-14
15	3.363	5.389	1362.45218	-144.3	-3.9	-94.3	43.6	62.40411	0.939	-79.8	55.9 42.9 23.0 10.3 125.62142 14-15
16	3.386	9.748	1404.77805	-129.3	-5.0	-92.8	55.1	63.54802	0.897	-78.8	60.3 37.8 29.7 19.7 131.78650 15-16
17	-0.583	9.452	1373.81891	-113.5	-3.2	-91.7	69.2	62.85408	0.926	-84.2	59.8 37.0 25.0 22.1 120.57296 16-17
18	-4.735	9.267	1361.91365	-91.3	-1.6	-90.4	87.7	62.57224	0.937	-90.1	59.6 36.7 22.9 22.9 125.88645 17-18
19	-8.881	9.209	1371.41357	-68.7	0.1	-89.1	16.7	62.74333	0.929	-96.1	59.7 37.0 24.6 22.1 125.57216 18-19
20	-13.135	9.283	1402.84006	-51.2	1.8	-87.9	32.7	63.38742	0.901	-101.9	60.2 38.0 29.4 19.4 128.87585 19-20
21	-12.857	4.840	1360.73749	-36.2	-0.0	-86.4	43.9	62.25289	0.942	-100.8	55.8 43.0 22.7 10.1 125.31396 20-21
22	-12.623	0.605	1341.11699	-12.3	-1.8	-84.9	62.6	61.61414	0.964	-99.9	51.7 48.2 18.7 0.9 122.93266 21-22
23	-12.424	-3.548	1342.32826	16.4	-3.4	-83.3	0.7	61.41140	0.966	-99.1	47.7 53.4 19.0 -8.2 122.93266 22-23
24	-12.255	-7.729	1363.97511	39.0	-5.0	-81.4	28.7	61.63277	0.950	-98.5	43.6 58.5 23.3 -17.3 125.09372 23-24
25	-8.137	-7.407	1334.49272	59.0	-3.8	-86.0	49.2	61.05486	0.976	-94.3	43.3 58.0 17.1 -15.3 125.09372 24-25
26	-4.110	-7.175	1325.54752	91.9	-2.7	-90.7	7.0	60.90142	0.984	-90.1	43.2 57.9 14.7 -14.7 122.18156 25-26
27	-0.070	-7.018	1336.71872	123.8	-1.7	-95.4	47.8	61.15605	0.974	-85.9	43.4 58.0 17.6 -15.4 122.46592 26-27
28	3.791	-6.938	1365.71986	141.6	-0.7	-99.5	63.3	61.77991	0.947	-82.0	43.7 58.4 23.6 -17.3 116.98726 27-28

RA-VIII CAMERA FA

4

FEB. 20, 1965 9 HR 48 MIN 57 SEC 549 MS

TAB NO 4

ATLAS PHOTO NO 4

POD SEQUENCE NO 340

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LONG	R	V	PTH	AZ
				519.207	952.60843	-3.386	3.557	2688.108	2.243	-55.416	74.206
PHOTO DATA											
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ EMIS ALPHA SCALE PT-PT
2	-2.571	7.268	963.28357	-104.3	-2.0	-91.7	75.7	45.02433	0.983	-90.0	57.6 47.3 10.6 10.3 0. 1- 2
3	0.474	4.403	964.17578	-167.5	-2.1	-93.2	52.4	44.67231	0.990	-85.5	54.8 52.8 11.1 1.3 126.61255 2- 3
4	0.429	7.389	974.14359	-136.6	-2.6	-92.6	61.1	45.33102	0.970	-85.1	57.8 47.5 15.1 9.5 90.47318 3- 4
5	0.412	10.513	998.25441	-120.4	-3.1	-92.0	66.8	46.25453	0.937	-84.6	60.9 42.2 21.8 17.9 94.62276 4- 5
6	-2.648	10.369	986.87440	-98.0	-2.1	-91.6	78.9	45.92653	0.950	-90.0	60.7 41.9 18.9 18.8 92.79490 5- 6
7	-5.674	10.281	989.27132	-73.1	-1.1	-91.1	2.1	45.83491	0.950	-95.4	60.7 42.2 19.6 18.2 91.70979 6- 7
8	-5.537	7.175	965.67262	-61.3	-1.5	-90.8	2.2	44.93686	0.983	-95.0	57.6 47.5 11.8 9.8 93.70966 7- 8
9	-5.406	4.204	955.95921	-19.7	-1.8	-90.5	1.9	44.15266	0.997	-94.6	54.6 52.8 6.0 1.6 89.67569 8- 9
10	-2.482	4.300	953.62749	-142.4	-1.9	-91.9	70.5	44.25994	0.997	-90.0	54.7 52.6 3.3 2.0 88.62066 9-10
11	0.474	4.403	964.17578	-169.5	-2.1	-93.2	52.4	44.67231	0.990	-85.5	54.8 52.8 11.1 1.3 89.59358 10-11
12	3.343	1.560	988.62331	161.4	-1.3	-95.5	27.0	44.70483	0.975	-81.9	52.2 58.4 19.4 -8.5 122.31174 11-12
13	3.298	4.505	985.97781	-173.8	-2.2	-94.4	40.5	45.14664	0.967	-81.3	55.1 53.3 18.7 -0.5 91.53417 12-13
14	3.296	7.532	946.59956	-151.0	-3.2	-93.4	50.0	45.82898	0.946	-80.6	58.1 48.1 21.4 15.9 95.90245 13-14
15	3.341	10.704	1021.73021	-135.0	-4.2	-92.3	56.9	46.78999	0.912	-79.7	61.3 42.9 26.6 24.3 102.81770 14-15
16	3.444	14.102	1063.33932	-124.7	-5.2	-91.2	61.9	48.09642	0.863	-78.7	64.7 37.8 33.3 26.5 91.61583 15-16
17	0.429	13.852	1038.31404	-112.1	-3.6	-91.4	70.7	47.50371	0.889	-84.1	64.3 37.0 29.5 26.5 95.34368 16-17
18	-2.714	13.680	1026.12436	-95.6	-2.1	-91.4	81.1	47.04653	0.903	-90.0	64.0 36.7 27.4 27.3 94.14107 17-18
19	-5.820	13.596	1028.47800	-78.1	-0.7	-91.5	2.1	47.20847	0.890	-101.8	64.1 37.9 30.6 26.7 94.90382 18-19
20	-8.954	13.600	1045.21672	-62.6	0.8	-91.5	13.0	45.97650	0.938	-100.7	60.8 43.0 23.4 16.3 100.62137 19-20
21	-8.724	10.247	1005.28896	-53.1	-0.1	-90.6	15.1	45.06570	0.971	-99.8	57.7 48.2 17.3 8.1 94.12983 20-21
22	-8.524	7.110	981.15657	-36.5	-1.0	-89.9	18.5	44.41615	0.992	-99.1	54.7 53.4 13.9 0.1 89.99077 21-22
23	-8.349	4.112	971.01950	-8.3	-1.8	-89.1	24.4	43.99323	0.999	-98.4	51.8 58.5 14.9 -7.8 87.64923 22-23
24	-8.192	1.192	973.71986	24.2	-2.5	-88.4	36.1	43.99625	0.989	-94.2	51.7 58.0 8.2 -6.5 88.29879 23-24
25	-5.279	1.309	959.00739	47.9	-2.2	-90.2	3.3	43.50320	0.990	-90.0	51.8 57.9 6.7 -6.1 87.78007 24-25
26	-2.383	1.409	956.77998	112.8	-1.8	-92.1	59.9	44.24322	0.998	-85.8	51.9 58.0 12.4 -6.8 88.73785 25-26
27	0.545	1.494	967.18586	150.2	-1.5	-93.9	38.2	44.70483	0.975	-81.9	52.2 58.4 19.4 -8.5 84.77055 26-27
28	3.343	1.560	988.62331	161.4	-1.3	-95.5	27.0				

RA-VIII CAMERA FA

5

FEB. 20, 1965 9 HR 50 MIN 45 SEC 68 MS

TAB NO 5

ATLAS PHOTO NO 5

POD SEQUENCE NO 382

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
PHOTO DATA				411.687		753.69522	-2.523	6.593	2489.195	2.308	-53.387	74.060				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-1.458	10.897	770.63311	-105.7	-2.1	-92.2	74.3	36.01976	0.968	-90.0	61.3	47.3	14.4	13.9	0.	1-2
3	0.953	8.590	767.59335	-151.5	-2.1	-92.6	61.0	35.56062	0.982	-85.4	59.0	52.8	13.1	5.5	101.07922	2-3
4	0.948	11.001	780.66134	-129.7	-2.7	-92.1	65.2	36.32529	0.954	-85.0	61.5	47.5	18.2	13.2	73.00136	3-4
5	0.963	13.556	804.79995	-118.2	-3.3	-91.6	68.5	37.28965	0.916	-84.6	64.0	42.2	24.8	21.0	77.40352	4-5
6	-1.507	13.426	794.16518	-100.3	-2.4	-92.0	76.7	36.95814	0.930	-90.0	63.8	41.9	22.1	21.8	74.93446	5-6
7	-3.938	13.339	793.91798	-80.1	-1.5	-92.4	85.4	36.77996	0.935	-95.4	63.7	42.2	22.1	21.4	73.67275	6-7
8	-3.828	10.819	770.52171	-74.9	-1.5	-92.2	84.1	35.85352	0.973	-94.9	61.2	47.5	14.4	13.6	76.24664	7-8
9	-3.724	8.438	757.90311	-59.1	-1.6	-92.0	81.6	35.09372	0.999	-94.5	58.8	52.8	7.2	5.9	72.01634	8-9
10	-1.403	8.509	757.97638	-121.9	-1.9	-92.3	71.3	35.27403	0.996	-90.0	58.9	52.6	7.3	6.2	70.32228	9-10
11	0.953	8.590	767.59335	-151.5	-2.1	-92.6	61.0	35.56062	0.982	-85.4	59.0	52.8	13.1	5.5	71.42126	10-11
12	3.191	6.338	781.71066	-175.8	-1.5	-93.6	46.6	35.33494	0.980	-81.9	56.9	58.4	18.5	-3.5	96.11878	11-12
13	3.207	8.678	785.45161	-161.4	-2.4	-92.0	57.5	35.95407	0.961	-81.3	59.2	53.3	19.7	3.9	70.77350	12-13
14	3.252	11.124	799.27370	-143.3	-3.4	-91.2	61.4	36.74656	0.932	-80.5	61.7	48.1	23.4	11.4	73.96969	13-14
15	3.332	13.722	824.45845	-130.9	-4.3	-91.2	61.4	39.02245	0.892	-79.6	64.3	42.9	28.9	19.1	78.59491	14-15
16	3.455	16.537	862.82198	-122.6	-5.3	-90.2	64.5	39.02245	0.892	-79.6	64.3	42.9	28.9	19.1	85.20197	15-16
17	1.004	16.318	841.68165	-111.6	-3.9	-91.1	71.1	38.50728	0.886	-84.0	66.8	37.0	32.1	28.9	74.53491	16-17
18	-1.548	16.155	830.16254	-97.6	-2.6	-91.9	78.6	38.13965	0.881	-90.0	66.4	37.0	30.0	29.8	77.43638	17-18
19	-4.056	16.057	829.65851	-82.7	-1.3	-92.6	86.4	37.94554	0.885	-95.9	66.4	37.0	29.9	29.2	76.02701	18-19
20	-6.761	16.063	839.09030	-66.7	-0.1	-93.4	44.3	37.91087	0.880	-101.0	66.4	37.0	21.0	27.5	75.07110	19-20
21	-6.365	13.294	803.77467	-62.2	-0.6	-92.7	4.3	36.74843	0.929	-100.7	63.7	43.0	24.5	19.7	82.35137	20-21
22	-6.193	10.765	780.06339	-50.7	-1.0	-92.1	4.3	35.82076	0.968	-99.8	61.2	48.2	18.0	12.1	76.31668	21-22
23	-6.039	8.378	767.12431	-28.8	-1.4	-91.7	4.4	35.08382	0.996	-99.0	58.8	53.4	12.9	4.7	72.03508	22-23
24	-5.900	6.091	763.79993	6.9	-1.7	-91.2	3.0	34.00584	0.986	-98.4	56.5	58.5	11.2	-2.6	69.04304	23-24
25	-3.624	6.156	754.91792	20.2	-1.6	-91.9	79.8	33.88598	0.981	-94.2	56.5	58.0	3.9	-1.6	68.98630	24-25
26	-1.341	6.219	755.03561	160.5	-1.6	-92.5	67.7	34.18458	0.985	-90.0	56.6	57.9	4.1	-1.3	69.16007	25-26
27	0.976	6.281	764.39107	173.2	-1.6	-93.1	57.5	34.92441	0.999	-85.8	56.7	58.0	11.5	-2.0	70.21902	26-27
28	3.191	6.338	781.71066	175.8	-1.5	-93.6	46.6	35.33494	0.980	-81.9	56.9	58.4	18.5	-3.5	67.10527	27-28

RA-VIII CAMERA FA

6

FEB. 20, 1965 9 HR 51 MIN 15 SEC 788 MS

TAB NO 6

ATLAS PHOTO NO 6

POD SEQUENCE NO 394

TRAJECTORY DATA				SEC TO IMPACT				ALT	LAT	LON	R	V	PTH	AZ		
PHOTO DATA				380.967				696.78787	-2.250	7.552	2432.288	2.327	-52.751	74.023		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-1.139	9.983	715.36035	-106.0	-2.2	-92.3	74.0	33.43628	0.963	-90.0	62.3	47.3	15.5	15.0	0.	1-2
3	1.094	9.787	711.54807	-147.5	-2.2	-92.4	62.6	32.96303	0.979	-85.4	60.3	52.8	13.9	6.7	93.79743	2-3
4	1.098	12.032	725.04169	-128.2	-2.8	-92.0	66.0	33.73653	0.949	-85.0	62.5	47.5	19.1	14.2	67.99333	3-4
5	1.119	14.421	748.76463	-117.7	-3.4	-91.5	68.8	34.69297	0.910	-84.6	64.9	42.2	25.6	21.9	72.36167	4-5
6	-1.180	14.295	738.46437	-100.8	-2.5	-92.1	76.2	34.36591	0.924	-90.0	64.7	41.9	23.0	22.7	69.75636	5-6
7	-3.439	14.209	737.63475	-81.9	-1.6	-92.7	83.9	34.17128	0.930	-95.4	64.6	42.2	22.8	22.3	68.48162	6-7
8	-3.337	11.858	714.70438	-78.0	-1.6	-92.5	82.5	33.25559	0.969	-94.9	62.2	47.5	15.3	14.6	71.16244	7-8
9	-3.241	9.645	701.70844	-66.9	-1.6	-92.4	80.9	32.51281	0.999	-94.5	60.0	52.8	8.0	7.1	66.97786	8-9
10	-1.091	9.710	702.29646	-119.8	-1.9	-92.4	71.4	32.68278	0.993	-90.0	60.1	52.6	8.5	7.4	65.13437	9-10
11	1.094	9.787	711.54807	-147.5	-2.2	-92.4	62.6	32.96303	0.979	-85.4	60.3	52.8	13.9	6.7	66.23647	10-11
12	3.156	7.700	723.24560	-180.0	-1.6	-93.1	50.3	32.68789	0.980	-81.9	58.3	58.4	18.5	-2.1	88.82187	11-12
13	3.184	9.870	728.25018	-158.2	-2.5	-92.4	55.2	33.33224	0.958	-81.2	60.4	53.3	20.1	5.1	65.64855	12-13
14	3.239	12.149	742.50442	-141.3	-3.4	-91.7	59.2	34.13396	0.928	-80.5	62.7	48.1	24.1	12.5	68.92944	13-14
15	3.325	14.579	767.25970	-129.8	-4.4	-90.9	62.4	35.12888	0.887	-79.6	65.1	43.0	29.6	20.0	73.51653	14-15
16	3.450	17.219	804.25220	-122.0	-5.3	-89.9	65.2	36.37223	0.835	-78.6	67.8	37.9	36.0	27.7	79.92985	15-16
17	1.164	17.010	764.31787	-111.5	-4.0	-91.0	71.2	35.88277	0.859	-84.0	67.5	37.0	32.8	29.6	69.53067	16-17
18	-1.214	16.851	773.12873	-98.1	-2.8	-92.0	77.9	35.51907	0.874	-90.0	67.2	36.7	30.7	30.5	72.20635	17-18
19	-3.549	16.751	771.99196	-83.9	-1.5	-92.9	85.0	35.30605	0.880	-95.9	67.1	37.0	30.5	30.0	70.78012	18-19
20	-5.875	16.707	780.57546	-70.4	-0.4	-93.9	2.2	35.23533	0.876	-101.7	67.1	37.9	32.1	28.2	70.46200	19-20
21	-5.689	14.160	745.97755	-64.6	-0.7	-93.2	1.8	34.10216	0.926	-100.7	64.6	43.0	25.0	20.7	76.96576	20-21
22	-5.526	11.805	722.79868	-54.5	-1.0	-92.7	1.3	33.18847	0.966	-99.8	62.2	48.2	18.3	13.3	71.14790	21-22
23	-5.380	9.590	709.52601	-35.1	-1.3	-92.3	0.9	32.44781	0.996	-99.0	60.0	53.4	12.9	6.0	66.93063	22-23
24	-5.248	7.476	705.03867	-0.1	-1.6	-91.9	98.5	31.30625	0.983	-98.3	57.9	58.5	10.4	-1.2	63.87840	23-24
25	-3.148	7.532	697.53321	-0.3	-1.5	-92.2	78.2	31.28420	0.980	-94.2	57.9	58.0	3.1	-0.2	63.62403	24-25
26	-1.039	7.588	698.14079	-179.8	-1.6	-92.6	68.7	31.61379	0.986	-90.0	58.0	57.9	4.2	0.0	63.92788	25-26
27	1.106	7.645	707.10616	-179.9	-1.6	-92.9	60.4	32.31815	0.999	-85.8	58.1	58.0	11.6	-0.7	64.98404	26-27
28	3.156	7.700	723.24560	-180.0	-1.6	-93.1	50.3	32.68789	0.980	-81.9	58.3	58.4	18.5	-2.1	62.11096	27-28

RA-VIII CAMERA FA

7

FEB. 20, 1965 9 HR 51 MIN 46 SEC 508 MS

TAB NO 7 ATLAS PHOTO NO 7 POD SEQUENCE NO 406

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				350.247	639.87549	-1.962	8.556	2375.375	2.348	-52.088	73.990					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-0.819	12.974	659.97042	-106.2	-2.2	-92.3	73.8	30.84733	0.958	-89.9	63.4	47.3	16.6	16.0	0.	1-2
3	1.236	10.989	655.51790	-143.9	-2.2	-92.2	63.9	30.36622	0.976	-85.4	61.5	52.8	14.7	7.9	86.51471	2-3
4	1.247	13.069	669.25394	-126.7	-2.9	-91.8	66.8	31.14000	0.944	-85.0	63.5	47.5	20.0	15.3	62.96920	3-4
5	1.274	15.290	692.39348	-117.1	-3.5	-91.4	69.2	32.08076	0.903	-84.5	65.8	42.2	26.5	22.7	67.26385	4-5
6	-0.854	15.168	682.48434	-101.3	-2.6	-92.2	75.7	31.74669	0.918	-89.9	65.6	41.9	24.0	21.5	64.54426	5-6
7	-2.941	15.082	681.15289	-83.6	-1.7	-93.0	82.5	31.55348	0.924	-95.3	65.5	42.2	23.6	23.2	63.27284	6-7
8	-2.846	12.902	658.84737	-80.7	-1.7	-92.8	81.2	30.65585	0.965	-94.9	63.3	47.5	16.2	15.7	66.03574	7-8
9	-2.757	10.856	645.65186	-73.2	-1.6	-92.7	79.6	29.91520	0.996	-94.5	61.2	52.8	9.0	8.4	61.93438	8-9
10	-0.779	10.917	646.67783	-118.1	-1.9	-92.5	71.5	30.09439	0.990	-89.9	61.3	52.8	14.7	7.9	59.95937	9-10
11	1.236	10.989	655.51790	-143.9	-2.2	-92.2	63.9	30.36622	0.976	-85.4	61.5	52.8	14.7	7.9	61.05063	10-11
12	3.124	9.067	665.00035	-175.6	-1.7	-92.6	53.5	30.05108	0.979	-81.9	59.6	58.4	18.6	-0.7	60.55315	11-12
13	3.163	11.069	671.04758	-155.0	-2.6	-91.9	57.4	30.71060	0.955	-81.2	61.6	53.3	20.6	6.4	63.86984	12-13
14	3.225	13.180	695.54214	-139.5	-3.5	-91.3	60.6	31.51267	0.923	-80.5	63.7	48.1	24.8	13.6	63.77615	13-14
15	3.315	15.439	709.69200	-128.8	-4.4	-90.5	63.4	32.49121	0.881	-79.6	66.0	43.0	30.3	21.0	68.37075	14-15
16	3.441	17.901	745.14237	-121.5	-5.4	-89.6	65.8	33.69767	0.829	-78.6	68.5	37.9	36.6	28.4	74.55858	15-16
17	1.322	17.703	726.45577	-111.3	-4.1	-90.9	71.2	33.23547	0.852	-84.0	68.2	37.0	33.5	30.3	64.47366	16-17
18	-0.882	17.549	715.66065	-98.7	-2.9	-92.1	77.4	32.87855	0.868	-89.9	68.0	36.7	31.5	31.2	66.92739	17-18
19	-3.043	17.447	713.97811	-85.1	-1.8	-93.2	83.7	32.65080	0.874	-95.9	67.8	37.0	31.2	30.7	65.50246	18-19
20	-5.189	17.394	721.06690	-72.0	-0.7	-94.4	0.1	32.54383	0.872	-101.7	67.8	37.9	32.5	29.0	65.03038	19-20
21	-5.014	15.030	688.09470	-66.9	-0.9	-93.8	89.5	31.45224	0.923	-100.6	65.4	43.0	25.4	21.6	71.51661	20-21
22	-4.860	12.850	665.60579	-58.2	-1.1	-93.3	88.8	30.55967	0.963	-99.7	63.2	48.2	18.8	14.4	65.94765	21-22
23	-4.722	10.806	652.18005	-41.3	-1.3	-92.9	88.0	29.82347	0.995	-99.0	61.2	53.4	13.1	7.3	61.82961	22-23
24	-4.597	8.864	646.74414	-8.2	-1.4	-92.6	85.0	28.66229	0.981	-98.3	59.3	58.5	9.8	0.3	58.76269	23-24
25	-2.672	8.912	640.49458	-28.6	-1.5	-92.6	77.0	28.72095	0.980	-94.2	59.3	58.0	2.9	1.2	58.31993	24-25
26	-0.734	8.962	641.51414	-162.9	-1.5	-92.6	69.5	29.07210	0.986	-90.0	59.4	57.9	4.8	1.4	58.72723	25-26
27	1.238	9.015	650.04762	-173.2	-1.6	-92.6	60.4	29.72810	1.000	-85.7	59.5	58.0	11.9	0.7	59.76735	26-27
28	3.124	9.067	665.00035	-175.6	-1.7	-92.6	53.5	30.05108	0.979	-81.9	59.6	58.4	18.6	-0.7	57.13336	27-28

RA-VIII CAMERA FA

8

FEB. 20, 1965 4 HR 52 MIN 17 SEC 108 MS

TAB NO 8 ATLAS PHOTO NO 8 POD SEQUENCE NO 416

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				324.647		592.45844	-1.711	9.430	2327.958	2.366	-51.512	73.964				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-0.552	13.842	613.66519	-106.4	-2.3	-92.4	73.6	28.68300	0.953	-89.9	64.3	47.3	17.6	16.9	0.	1-2
3	1.353	11.992	608.79459	-141.1	-2.3	-92.1	64.9	28.20083	0.972	-85.4	62.5	52.8	15.4	8.9	80.43630	2-3
4	1.370	13.933	622.57381	-125.6	-2.9	-91.7	67.3	28.96742	0.939	-85.0	64.4	47.5	20.8	16.1	58.75762	3-4
5	1.401	16.011	645.07539	-116.8	-3.6	-91.3	69.4	29.88808	0.897	-84.5	66.5	42.2	27.2	23.5	62.95579	4-5
6	-0.582	15.894	635.54115	-101.7	-2.7	-92.3	75.4	29.57604	0.912	-89.9	66.3	41.9	24.7	24.3	60.16606	5-6
7	-2.525	15.809	633.85739	-84.9	-1.9	-93.3	81.5	29.36154	0.920	-95.3	66.2	42.2	24.3	23.9	58.91068	6-7
8	-2.437	13.772	612.21541	-82.7	-1.8	-93.1	80.1	28.48552	0.961	-94.9	64.2	47.5	17.0	16.6	61.71566	7-8
9	-2.354	11.866	599.00630	-77.5	-1.6	-93.0	78.6	27.75371	0.994	-94.5	62.3	52.8	9.8	9.4	57.71646	8-9
10	-0.518	11.924	600.33627	-117.0	-1.9	-92.5	71.5	27.93774	0.987	-89.9	62.3	52.6	10.8	9.6	55.65246	9-10
11	1.353	11.992	608.79459	-141.1	-2.3	-92.1	64.9	28.20083	0.972	-85.4	62.5	52.8	15.4	8.9	75.00054	10-11
12	3.098	10.206	616.59847	-172.0	-1.8	-92.2	55.8	27.86022	0.979	-81.9	60.8	58.4	18.7	0.5	76.31903	11-12
13	3.144	12.068	623.33052	-152.5	-2.6	-91.6	59.0	28.52395	0.952	-81.2	62.6	53.3	21.1	7.4	59.62521	12-13
14	3.211	14.038	637.85898	-138.0	-3.5	-91.0	61.8	29.31859	0.918	-80.5	64.6	48.1	25.4	14.5	64.02896	13-14
15	3.303	16.153	661.34481	-128.0	-4.5	-90.2	64.2	30.27616	0.876	-79.6	66.7	43.0	30.9	21.7	69.98107	14-15
16	3.429	18.464	695.34748	-121.0	-5.4	-89.4	66.3	31.44471	0.824	-78.5	69.0	37.9	37.1	29.0	60.20689	15-16
17	1.450	18.276	677.74114	-111.2	-4.2	-90.8	71.3	31.00669	0.846	-84.0	68.8	37.0	34.1	30.9	62.47904	16-17
18	-0.607	18.126	667.33070	-99.1	-3.1	-92.2	76.9	30.65793	0.862	-89.9	68.5	36.7	32.1	31.8	61.07053	17-18
19	-2.620	18.023	665.26522	-86.0	-2.0	-93.5	82.6	30.42141	0.869	-95.9	68.4	37.0	31.7	31.3	60.49414	18-19
20	-4.617	17.364	671.20308	-73.4	-0.9	-94.8	88.6	30.28896	0.869	-101.7	68.3	37.9	32.9	29.6	66.90642	19-20
21	-4.452	15.754	639.72053	-68.9	-1.1	-94.2	87.8	29.23792	0.919	-100.6	66.1	43.0	25.9	22.5	61.57368	20-21
22	-4.306	13.720	617.94753	-61.2	-1.2	-93.7	96.9	28.36933	0.961	-99.7	64.1	48.2	19.2	15.4	57.57033	21-22
23	-4.175	11.819	654.54797	-46.4	-1.3	-93.4	85.9	27.64381	0.994	-99.0	62.2	53.3	13.3	8.4	54.52800	22-23
24	-4.056	10.018	598.49690	-15.8	-1.4	-93.1	82.6	26.49629	0.980	-98.3	60.4	58.5	9.4	1.5	53.94076	23-24
25	-2.276	10.061	593.20235	-50.6	-1.4	-92.9	76.2	26.60981	0.980	-94.1	60.5	58.0	3.3	2.4	54.41432	24-25
26	-0.480	10.107	594.50435	-152.2	-1.5	-92.7	70.0	26.97187	0.988	-89.9	60.5	57.9	5.5	2.5	55.43111	25-26
27	1.349	10.157	602.64337	-167.8	-1.6	-92.4	62.0	27.55876	0.998	-85.7	60.6	58.0	12.2	1.9	52.99470	26-27
28	3.098	10.206	616.59847	-172.0	-1.8	-92.2	55.8	27.86022	0.979	-81.9	60.8	58.4	18.7	0.5		27-28

RA-VIII CAMERA FA

9

FEB. 20, 1965 9 HR 52 MIN 37 SEC 708 MS

TAB NO 9

ATLAS PHOTO NO 9

POD SEQUENCE NO 426

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
PHOTO DATA				299.048		545.06406	-1.449	10.341	2280.564	2.384	-50.915	73.941				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-0.287	14.708	567.18938	-106.6	-2.4	-92.5	73.4	26.51070	0.948	-89.9	65.1	47.3	18.5	17.7	0.	1-2
3	1.471	12.995	562.01085	-138.7	-2.3	-91.9	65.7	26.03274	0.969	-85.4	63.5	52.8	16.2	9.9	74.34301	2-3
4	1.491	14.795	575.68158	-124.6	-3.0	-91.5	67.8	26.78503	0.934	-85.0	65.3	47.5	21.6	17.0	54.51487	3-4
5	1.525	16.729	597.39736	-116.4	-3.6	-91.1	69.7	27.67876	0.891	-84.5	67.2	42.2	27.9	24.2	58.58307	4-5
6	-0.312	16.617	588.28529	-102.1	-2.8	-92.3	75.0	27.37684	0.906	-89.9	67.0	41.9	25.5	25.0	55.75121	5-6
7	-2.110	16.533	586.31135	-86.1	-2.0	-93.5	80.5	27.15809	0.915	-95.3	66.9	42.2	24.9	24.7	54.52422	6-7
8	-2.028	14.641	565.47114	-84.6	-1.9	-93.3	79.2	26.31003	0.957	-94.8	65.0	47.5	17.8	17.5	57.34308	7-8
9	-1.952	12.876	552.39318	-81.1	-1.6	-93.2	77.8	25.59376	0.991	-94.5	63.3	52.8	10.7	10.4	53.47703	8-9
10	-0.258	12.930	553.97100	-116.1	-2.0	-92.6	71.6	25.77999	0.983	-89.9	63.4	52.6	11.8	10.6	51.34719	9-10
11	1.471	12.995	562.01095	-138.7	-2.3	-91.9	65.7	26.03274	0.969	-85.4	63.5	52.8	16.2	9.9	52.38879	10-11
12	3.073	11.345	568.29071	-168.5	-1.8	-91.8	57.8	25.67398	0.977	-81.8	61.9	58.4	18.9	1.7	69.64454	11-12
13	3.125	13.066	575.53584	-150.1	-2.7	-91.2	60.5	26.33404	0.949	-81.2	63.6	53.3	21.6	8.5	52.08719	12-13
14	3.195	14.895	589.93939	-136.6	-3.6	-90.6	62.8	27.11386	0.914	-80.5	65.5	48.1	26.0	15.4	55.34561	13-14
15	3.289	16.864	612.60589	-127.2	-4.5	-90.0	64.9	28.04335	0.870	-79.6	67.4	43.0	31.5	22.5	59.61083	14-15
16	3.413	19.020	644.99984	-120.6	-5.4	-89.2	66.7	29.16686	0.818	-78.5	69.3	37.0	34.7	29.6	65.29805	15-16
17	1.577	18.842	628.51399	-111.1	-4.3	-90.7	71.4	28.75447	0.840	-83.9	69.3	37.0	34.7	31.5	57.98821	16-17
18	-0.332	18.696	618.54294	-99.5	-3.2	-92.2	76.5	28.41630	0.856	-89.9	69.1	36.7	32.7	32.3	57.97971	17-18
19	-2.198	18.594	616.16299	-87.0	-2.2	-93.7	81.7	28.17437	0.864	-95.9	69.0	37.0	32.2	31.9	56.60166	18-19
20	-4.044	18.530	621.03835	-74.7	-1.2	-95.2	87.0	28.02004	0.845	-101.7	68.0	37.0	32.2	30.2	55.02107	19-20
21	-3.889	16.476	591.17737	-70.7	-1.3	-94.6	86.1	27.01623	0.916	-100.6	66.9	43.0	26.3	23.3	62.22308	20-21
22	-3.752	14.590	570.25648	-64.0	-1.3	-94.2	85.2	26.17771	0.958	-99.7	65.0	48.2	19.7	16.3	57.15430	21-22
23	-3.629	12.831	557.02787	-51.3	-1.3	-93.8	84.1	25.46944	0.993	-99.0	63.2	53.3	13.7	9.4	53.29569	22-23
24	-3.516	11.171	550.52287	-23.8	-1.3	-93.5	80.7	24.35923	0.980	-98.3	61.6	58.4	9.3	2.7	50.31145	23-24
25	-1.880	11.210	546.10176	-66.2	-1.4	-93.1	75.4	24.51695	0.981	-94.1	61.6	58.0	4.1	3.6	49.59478	24-25
26	-0.226	11.252	547.63094	-144.2	-1.5	-92.7	70.5	24.88371	0.989	-89.9	61.7	57.9	6.4	3.7	50.11759	25-26
27	1.461	11.298	555.34299	-162.7	-1.7	-92.2	63.3	25.39430	0.997	-85.7	61.8	58.0	12.7	3.0	51.10201	26-27
28	3.073	11.345	568.29071	-168.5	-1.8	-91.8	57.8	25.67398	0.977	-81.8	61.9	58.4	18.9	1.7	48.86171	27-28

RA-VIII CAMERA FA

10

FEB. 20, 1965 9 HR 53 MIN 3 SEC 308 MS

TAB NO 10

ATLAS PHOTO NO 10

POD SEQUENCE NO 436

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
PHOTO DATA				273.448		497.70621	-1.176	11.290	2233.206	2.403	-50.295	73.922				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-0.029	15.573	520.48328	-106.7	-2.5	-92.5	73.3	24.32764	0.943	-89.9	66.0	47.3	19.4	18.6	0.	1-
3	1.580	13.996	515.08958	-136.4	-2.4	-91.7	66.5	23.85842	0.965	-85.4	64.5	52.8	17.0	10.9	68.22579	2-3
4	1.604	15.655	528.49017	-123.6	-3.0	-91.4	68.3	24.58879	0.929	-85.0	66.1	47.5	22.4	17.9	50.22724	3-4
5	1.640	17.442	549.25844	-116.0	-3.7	-91.0	70.0	25.44611	0.885	-84.5	67.9	42.2	28.6	24.9	54.12956	4-5
6	-0.050	17.335	540.64618	-102.4	-2.9	-92.4	74.8	25.15982	0.901	-89.9	67.8	41.9	26.3	25.7	51.28638	5-6
7	-1.702	17.253	538.47252	-87.2	-2.2	-93.7	79.7	24.94122	0.910	-95.3	67.7	42.2	25.6	25.4	50.10619	6-7
8	-1.627	15.507	518.58035	-86.2	-2.0	-93.6	78.5	24.12779	0.952	-94.9	65.9	47.5	18.6	18.4	52.90909	7-8
9	-1.557	13.883	505.78401	-84.0	-1.7	-93.4	77.1	23.43400	0.988	-94.5	64.3	52.8	11.6	11.5	49.20833	8-9
10	-0.004	13.935	507.53025	-115.3	-2.0	-92.6	71.7	23.61873	0.979	-89.9	64.4	52.6	12.8	11.6	47.03863	9-10
11	1.580	13.996	515.08958	-136.4	-2.4	-91.7	66.5	23.85842	0.965	-85.4	64.5	52.8	17.0	10.9	48.03546	10-11
12	3.042	12.483	519.98129	-165.1	-1.9	-91.4	59.6	23.48819	0.976	-81.9	63.1	58.4	19.2	2.9	63.70467	11-12
13	3.097	14.064	527.56013	-147.8	-2.7	-90.9	61.8	24.13623	0.946	-81.2	64.6	53.3	22.1	9.5	47.84241	12-13
14	3.169	15.749	541.66784	-135.2	-3.6	-90.3	63.8	24.89323	0.909	-80.5	66.3	48.1	26.6	16.3	51.01410	13-14
15	3.262	17.568	563.34283	-126.4	-4.5	-89.7	65.6	25.78671	0.865	-79.6	68.1	43.0	32.0	23.2	55.10251	14-15
16	3.382	19.565	593.94464	-120.1	-5.5	-88.9	67.2	26.85711	0.813	-78.5	70.1	37.9	38.1	30.2	60.48479	15-16
17	1.691	19.398	578.65530	-111.0	-4.4	-90.6	71.5	26.47336	0.834	-84.0	69.9	37.0	35.2	32.1	51.48987	16-17
18	-0.067	19.259	569.21279	-99.8	-3.4	-92.3	76.1	26.14980	0.850	-89.9	69.7	36.7	33.3	32.9	53.41378	17-18
19	-1.784	19.157	566.61903	-87.8	-2.4	-93.9	80.9	25.90738	0.859	-95.9	69.6	37.0	32.7	32.5	52.08717	18-19
20	-3.479	19.089	570.55149	-76.0	-1.5	-95.5	85.7	25.73899	0.862	-101.7	69.5	37.9	33.6	30.9	51.37470	19-20
21	-3.334	17.194	542.45222	-72.4	-1.5	-94.6	83.7	24.78658	0.912	-100.6	67.6	43.0	26.8	24.0	57.46019	20-21
22	-3.206	15.457	522.52290	-66.6	-1.5	-94.3	82.6	23.98442	0.955	-99.7	65.8	48.2	20.2	17.2	52.68404	21-22
23	-3.090	13.841	509.61332	-55.7	-1.4	-94.3	82.6	23.30007	0.991	-99.0	64.2	53.4	14.1	10.5	49.00061	22-23
24	-2.985	12.320	502.81675	-31.8	-1.3	-94.0	79.1	22.24875	0.980	-98.3	62.7	58.5	9.3	3.9	46.10766	23-24
25	-1.490	12.356	499.16737	-76.1	-1.4	-93.4	74.9	22.43838	0.983	-94.1	62.8	58.0	5.0	4.7	45.28130	24-25
26	0.023	12.395	500.84693	-138.2	-1.6	-92.7	71.0	22.80160	0.991	-89.9	62.8	57.9	7.3	4.8	45.93259	25-26
27	1.566	12.438	508.07573	-158.0	-1.7	-92.0	64.5	23.23158	0.995	-85.7	62.9	58.0	13.2	4.2	46.77063	26-27
28	3.042	12.483	519.98129	-165.1	-1.9	-91.4	59.6	23.48819	0.976	-81.9	63.1	58.4	19.2	2.9	44.72097	27-28

RA-VIII CAMERA FA

11

FEB. 20, 1965 4 HR 53 MIN 23 SEC 788 MS

TAB NO 11

ATLAS PHOTO NO 11

POD SEQUENCE NO 444

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
				252.968	459.85748	-0.948	12.079	2195.357	2.419	-49.780	73.909
PHOTO DATA											
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ EMIS ALPHA SCALE PT-PT
2	0.177	16.265	482.97617	-106.7	-2.6	-92.5	73.3	22.57454	0.939	-89.9	66.7 47.3 20.1 19.3 0. 1- 2
3	1.668	14.799	477.48617	-134.7	-2.4	-91.6	67.1	22.11597	0.961	-85.4	65.3 52.8 17.6 11.8 63.31694 2- 3
4	1.693	16.343	490.56636	-122.9	-3.1	-91.3	68.7	22.82390	0.924	-85.0	66.8 47.5 23.0 18.6 46.76902 3- 4
5	1.730	18.012	510.47486	-115.7	-3.8	-90.9	70.2	23.65099	0.881	-84.5	68.5 42.2 29.2 25.5 50.51669 4- 5
6	0.159	17.909	502.29505	-102.6	-3.0	-92.4	74.6	23.37504	0.896	-89.9	68.4 41.9 26.9 26.3 47.68638 5- 6
7	-1.376	17.829	500.00567	-88.1	-2.3	-93.9	79.1	23.15875	0.905	-95.3	68.2 42.2 26.2 26.0 46.55170 6- 7
8	-1.305	16.202	480.96612	-87.4	-2.1	-93.7	77.9	22.37731	0.948	-94.9	68.6 47.5 19.2 19.1 49.32093 7- 8
9	-1.240	14.691	468.49350	-86.1	-1.8	-93.6	76.6	21.70607	0.985	-94.5	65.1 52.8 12.4 12.3 45.77247 8- 9
10	0.198	14.741	470.33609	-114.7	-2.1	-92.6	71.8	21.88781	0.976	-89.9	65.2 52.6 13.7 12.4 43.58987 9-10
11	1.668	14.799	477.48617	-134.7	-2.4	-91.6	67.1	22.11597	0.961	-85.4	65.3 52.8 17.6 11.8 44.54444 10-11
12	3.017	13.395	481.37315	-162.3	-1.9	-91.1	61.0	21.74164	0.974	-81.9	64.0 58.4 19.4 3.9 58.96784 11-12
13	3.074	14.863	489.10238	-146.0	-2.8	-90.6	62.8	22.37469	0.943	-81.2	65.4 53.3 22.5 10.4 44.43994 12-13
14	3.147	16.432	502.63963	-125.7	-4.6	-89.5	66.2	23.10835	0.905	-80.5	67.0 48.1 27.0 17.1 47.51800 13-14
15	3.238	18.130	523.63963	-119.8	-5.5	-88.8	67.6	24.99125	0.809	-78.5	70.6 37.9 38.5 30.7 56.55818 15-16
16	3.395	19.997	552.69926	-119.8	-5.5	-88.8	67.6	24.99125	0.809	-78.5	70.6 37.9 38.5 30.7 56.55818 15-16
17	1.780	19.840	538.39238	-110.9	-4.5	-90.5	71.6	24.63128	0.830	-84.0	70.3 37.0 35.7 32.5 42.73202 16-17
18	0.144	19.707	529.41048	-100.1	-3.5	-92.4	75.8	24.32108	0.846	-89.9	70.1 36.7 33.8 33.3 49.72302 17-18
19	-1.452	19.606	526.69473	-88.5	-2.6	-94.1	80.2	24.08071	0.855	-95.9	70.0 37.0 33.2 32.9 48.44701 18-19
20	-3.025	19.536	529.93667	-77.0	-1.7	-95.8	84.6	23.90362	0.859	-101.7	69.9 37.9 33.9 31.4 47.70620 19-20
21	-2.889	17.770	503.33412	-73.8	-1.7	-95.3	83.7	22.99684	0.909	-100.6	68.2 43.0 27.2 27.2 53.59742 20-21
22	-2.768	16.152	484.28975	-68.6	-1.6	-94.9	82.7	22.22785	0.952	-99.7	66.5 48.2 20.6 18.0 49.07238 21-22
23	-2.659	14.651	471.73254	-59.1	-1.4	-94.6	81.6	21.56701	0.989	-99.0	65.0 53.4 14.5 11.4 45.54824 22-23
24	-2.559	13.241	464.90959	-38.2	-1.3	-94.3	78.0	20.57479	0.980	-98.3	63.6 58.5 9.4 4.9 41.84927 23-24
25	-1.178	13.274	461.72355	-81.7	-1.4	-93.5	74.6	20.78327	0.984	-94.2	63.7 58.0 5.8 5.7 41.84927 24-25
26	0.222	13.311	463.48650	-134.3	-1.6	-92.7	71.3	21.13977	0.993	-89.9	63.8 57.9 8.1 5.7 42.41212 25-26
27	1.651	13.352	470.30717	-154.5	-1.8	-91.9	65.4	21.50360	0.993	-85.7	63.9 58.0 13.6 5.1 43.30794 26-27
28	3.017	13.395	481.37315	-162.3	-1.9	-91.1	61.0	21.74164	0.974	-81.9	64.0 58.4 19.4 3.9 41.41033 27-28

RA-VIII CAMERA FA

12

FEB. 20, 1965 9 HR 53 MIN 28 SEC 908 MS

TAB NO 12

ATLAS PHOTO NO 12

POD SEQUENCE NO 446

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
				247.848	450.40143	-0.890	12.280	2185.901	2.423	-49.649	73.907
PHOTO DATA											
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ EMIS ALPHA SCALE PT-PT
2	0.229	16.438	473.57497	-106.8	-2.6	-92.5	73.2	22.13512	0.938	-89.9	66.9 47.3 20.3 19.5 0. 1- 2
3	1.670	15.000	468.07281	-134.3	-2.4	-91.6	67.2	21.67979	0.961	-85.4	65.5 52.8 17.8 12.0 62.08694 2- 3
4	1.716	16.515	481.05713	-122.7	-3.1	-91.3	68.8	22.38138	0.923	-85.0	67.0 47.5 23.2 18.8 45.89964 3- 4
5	1.752	18.153	500.73493	-115.6	-3.8	-90.9	70.2	23.19967	0.880	-84.5	68.7 42.2 29.3 25.7 49.60525 4- 5
6	0.211	18.052	492.66773	-102.7	-3.1	-92.5	74.6	22.92701	0.895	-89.9	68.5 41.9 27.0 26.4 46.78193 5- 6
7	-1.294	17.972	490.35547	-89.3	-2.4	-94.0	79.0	22.71159	0.904	-95.3	68.4 42.2 26.3 26.1 45.65971 6- 7
8	-1.225	16.375	471.54366	-87.7	-2.1	-93.8	77.8	21.93882	0.947	-94.9	66.8 47.5 19.4 19.3 48.41698 7- 8
9	-1.161	14.873	459.16687	-86.5	-1.8	-93.7	76.5	21.27391	0.984	-94.5	65.3 52.8 12.6 12.5 44.90971 8- 9
10	0.249	14.942	461.02838	-114.6	-2.1	-92.6	71.8	21.45465	0.975	-89.9	65.4 52.6 13.9 12.6 42.72707 9-10
11	1.690	15.000	468.07281	-134.3	-2.4	-91.6	67.2	21.67979	0.961	-85.4	65.5 52.8 17.8 12.0 43.67029 10-11
12	3.011	13.623	471.72446	-161.7	-2.0	-91.0	61.3	21.30520	0.974	-81.9	64.2 58.4 19.5 4.1 57.78529 11-12
13	3.068	15.063	479.47404	-145.5	-2.8	-90.5	63.1	21.93371	0.942	-81.2	65.6 53.3 22.6 10.6 43.58768 12-13
14	3.141	16.603	473.13317	-133.8	-3.7	-90.0	64.7	22.66676	0.904	-80.5	67.2 48.1 27.2 17.3 46.63874 13-14
15	3.232	18.271	513.66699	-125.6	-4.6	-89.4	66.3	23.51137	0.866	-79.6	68.8 43.0 32.6 24.0 50.51821 14-15
16	3.348	20.104	542.32394	-111.7	-5.5	-88.7	67.7	24.52191	0.808	-78.5	70.7 37.9 38.6 30.8 55.56425 15-16
17	1.802	19.949	528.26624	-110.9	-4.5	-90.5	71.6	24.16799	0.829	-84.0	70.4 37.0 35.8 32.6 47.03953 16-17
18	0.197	19.818	519.40477	-100.1	-3.5	-92.4	75.8	23.86138	0.844	-89.9	70.3 36.7 33.9 33.5 48.79434 17-18
19	-1.369	19.719	516.66532	-88.6	-2.6	-94.2	80.1	23.62186	0.854	-95.9	70.1 37.0 33.3 33.1 47.53216 18-19
20	-2.912	19.647	519.74332	-77.2	-1.8	-95.9	84.4	23.44305	0.858	-101.7	70.0 37.9 34.0 31.5 46.78629 19-20
21	-2.778	17.913	473.52901	-74.1	-1.7	-95.4	83.4	22.54828	0.908	-100.6	68.3 43.0 27.3 24.8 52.62288 20-21
22	-2.659	16.326	474.72006	-69.1	-1.6	-95.0	82.4	21.78821	0.951	-99.7	66.7 48.2 20.8 18.1 48.16333 21-22
23	-2.551	14.853	462.26562	-59.9	-1.5	-94.7	81.3	21.13392	0.988	-99.0	65.2 53.4 14.6 11.6 44.68197 22-23
24	-2.453	13.472	455.32682	-39.8	-1.3	-94.4	77.7	20.15792	0.980	-98.3	63.9 58.5 9.5 5.1 41.91004 23-24
25	-1.100	13.504	452.37439	-82.8	-1.4	-93.6	74.5	20.37024	0.984	-94.2	63.9 58.0 6.0 5.9 40.99345 24-25
26	0.271	13.540	454.15327	-133.5	-1.6	-92.7	71.4	20.72455	0.993	-89.9	64.0 57.9 8.3 6.0 41.55787 25-26
27	1.672	13.581	460.86906	-153.7	-1.8	-91.8	65.6	21.07181	0.992	-85.7	64.1 58.0 13.8 5.3 42.44240 26-27
28	3.011	13.623	471.72446	-161.7	-2.0	-91.0	61.3	21.30520	0.974	-81.9	64.2 58.4 19.5 4.1 40.58281 27-28

RA-VIII CAMERA FA

13

FEB. 20, 1965 4 HR 53 MIN 34 SEC 28 MS

TAB NO 13

ATLAS PHOTO NO 13

POD SEQUENCE NO 448

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					242.728		440.94827	-0.832	12.483	2176.448	2.427	-49.517	73.904			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.280	16.611	464.16385	-106.8	-2.6	-92.6	73.2	21.69524	0.937	-89.9	67.1	47.3	20.5	19.6	0.	1-
3	1.711	15.200	458.65419	-133.9	-2.5	-91.5	67.4	21.24337	0.960	-85.4	65.7	52.8	17.9	12.2	60.85577	2-3
4	1.738	16.687	471.53631	-122.5	-3.1	-91.2	68.9	21.93831	0.922	-85.0	67.2	47.5	23.4	18.9	45.02821	3-4
5	1.774	18.295	490.97716	-115.5	-3.8	-90.9	70.3	22.74753	0.878	-84.5	68.8	42.2	29.5	25.8	48.69049	4-5
6	0.263	18.195	483.02447	-102.7	-3.1	-92.5	74.5	22.47824	0.894	-89.9	68.6	41.9	27.2	26.6	45.87567	5-6
7	-1.213	18.116	480.69184	-88.5	-2.4	-94.0	78.8	22.26382	0.903	-95.3	68.5	42.2	26.4	26.3	44.76626	6-7
8	-1.145	16.549	462.11361	-88.0	-2.1	-93.8	77.7	21.49998	0.946	-94.9	67.0	47.5	19.6	19.4	47.51024	7-8
9	-1.082	15.096	449.83855	-87.0	-1.8	-93.7	76.4	20.84167	0.984	-94.5	65.5	52.8	12.8	12.7	44.04536	8-9
10	0.300	15.144	451.71682	-114.4	-2.1	-92.6	71.9	21.02131	0.974	-89.9	65.6	52.6	14.1	12.8	41.86392	9-10
11	1.711	15.200	458.65419	-133.9	-2.5	-91.5	67.4	21.24337	0.960	-85.4	65.7	52.8	17.9	12.2	42.79551	10-11
12	3.005	13.851	462.07670	-161.0	-2.0	-90.9	61.6	20.86882	0.974	-81.9	64.4	58.4	19.5	4.4	56.60328	11-12
13	3.063	15.262	469.83977	-145.1	-2.8	-90.5	63.3	21.49247	0.941	-81.2	65.8	53.3	22.7	10.8	42.73465	12-13
14	3.135	16.774	483.38943	-133.6	-3.7	-90.0	64.9	22.21261	0.903	-80.5	67.3	48.1	27.3	17.4	45.75726	13-14
15	3.226	18.411	503.67528	-125.4	-4.6	-89.4	66.4	23.05373	0.859	-79.6	69.0	43.0	32.7	24.2	49.59076	14-15
16	3.340	20.211	531.92267	-119.6	-5.5	-88.7	67.8	24.05140	0.807	-78.5	70.8	37.9	38.6	30.9	54.56532	15-16
17	1.824	20.059	518.11572	-110.9	-4.5	-90.5	71.6	23.70360	0.827	-84.0	70.6	37.0	35.9	32.8	46.14217	16-17
18	0.250	19.929	509.37691	-100.2	-3.6	-92.4	75.7	23.40065	0.843	-89.9	70.4	36.7	34.0	33.6	47.86322	17-18
19	-1.286	19.830	506.61657	-88.8	-2.7	-94.2	79.9	23.16212	0.853	-95.9	70.2	37.0	33.4	33.2	46.61535	18-19
20	-2.799	19.738	509.37691	-100.2	-3.6	-92.4	75.7	23.40065	0.843	-89.9	70.4	36.7	34.0	33.6	47.86322	19-20
21	-2.667	18.057	483.71377	-74.5	-1.8	-95.5	83.2	22.09927	0.907	-100.6	68.4	43.0	27.4	25.0	51.64470	20-21
22	-2.549	16.500	465.14582	-69.6	-1.6	-95.1	82.2	21.34838	0.951	-99.7	66.9	48.2	20.9	18.3	47.25182	21-22
23	-2.444	15.056	452.79996	-60.8	-1.5	-94.8	81.1	20.70090	0.988	-99.0	65.5	53.4	14.7	11.8	43.81437	22-23
24	-2.347	13.702	445.85156	-41.4	-1.3	-94.5	77.5	19.74166	0.980	-98.3	64.1	58.5	9.5	5.4	40.10703	23-24
25	-1.022	13.734	443.02981	-83.9	-1.5	-93.6	74.4	19.95746	0.985	-94.2	64.2	58.0	6.2	6.1	40.13856	24-25
26	0.321	13.769	444.82258	-132.7	-1.6	-92.7	71.5	20.30936	0.994	-89.9	64.2	57.9	8.5	6.2	40.70384	25-26
27	1.693	13.809	451.43230	-152.9	-1.8	-91.8	65.8	20.64608	0.992	-85.7	64.3	58.0	13.9	5.6	41.57686	26-27
28	3.005	13.851	462.07670	-161.0	-2.0	-90.9	61.6	20.86882	0.974	-81.9	64.4	58.4	19.5	4.4	39.75525	27-28

RA-VIII CAMERA FA

14

FEB. 20, 1965 4 HR 53 MIN 39 SEC 148 MS

TAB NO 14

ATLAS PHOTO NO 14

POD SEQUENCE NO 450

TRAJECTORY DATA				SEC TO IMPACT				ALT	LAT	LON	R	V	PTH	AZ		
				237.608				431.49838	-0.773	12.688	2166.998	2.431	-49.384	73.902		
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.332	16.784	454.74621	-106.8	-2.6	-92.6	73.2	21.25505	0.936	-89.9	67.2	47.3	20.6	19.8	0	1-2
3	1.733	15.401	449.23381	-133.5	-2.5	-91.5	67.5	20.80688	0.959	-85.4	65.9	52.8	18.1	12.4	59.62386	2-3
4	1.760	16.860	462.00857	-122.4	-3.2	-91.2	69.0	21.49492	0.921	-85.0	67.4	47.5	23.5	19.1	44.15546	3-4
5	1.797	18.437	481.20752	-115.4	-3.8	-90.9	70.3	22.29484	0.877	-84.5	68.9	42.2	29.6	26.0	47.77335	4-5
6	0.316	18.338	473.36989	-102.8	-3.1	-92.5	74.5	22.02894	0.892	-89.9	68.8	41.9	27.3	26.7	44.96829	5-6
7	-1.131	18.260	471.01818	-89.7	-2.4	-94.0	78.7	21.81558	0.902	-95.3	68.7	42.2	26.6	26.4	43.87183	6-7
8	-1.064	16.722	452.67821	-88.3	-2.1	-93.9	77.5	21.06090	0.945	-94.9	67.1	47.5	19.7	19.6	46.60136	7-8
9	-1.002	15.298	440.50991	-87.4	-1.8	-93.8	76.3	20.40941	0.983	-94.5	65.7	52.8	13.0	12.9	43.17985	8-9
10	0.351	15.345	442.40380	-114.3	-2.1	-92.6	71.9	20.58790	0.973	-89.9	65.8	52.6	14.3	13.0	41.00067	9-10
11	1.733	15.401	449.23381	-133.5	-2.5	-91.5	67.5	20.80688	0.959	-85.4	65.9	52.8	18.1	12.4	41.92057	10-11
12	2.999	14.079	452.43353	-160.4	-2.0	-90.8	61.9	20.43266	0.973	-81.9	64.6	58.4	19.6	4.6	55.42229	11-12
13	3.057	15.462	460.20428	-144.7	-2.8	-90.4	63.6	21.05119	0.940	-81.2	66.0	53.3	22.8	11.0	41.88139	12-13
14	3.129	16.944	473.63911	-133.3	-3.7	-89.9	65.1	21.76417	0.902	-80.5	67.5	48.1	27.4	17.6	44.87441	13-14
15	3.219	18.551	493.67197	-125.3	-4.6	-89.3	66.6	22.59558	0.858	-79.6	69.1	43.0	32.8	24.3	48.66093	14-15
16	3.333	20.318	521.50509	-119.5	-5.5	-88.6	67.9	23.58016	0.806	-78.6	70.9	37.9	38.7	31.0	53.56314	15-16
17	1.846	20.168	507.94860	-110.8	-4.5	-90.5	71.6	23.23844	0.826	-84.0	70.7	37.0	36.0	32.9	45.24359	16-17
18	0.302	20.040	499.33305	-100.3	-3.6	-92.4	75.7	22.93919	0.842	-89.9	70.5	36.7	34.1	33.7	46.93057	17-18
19	-1.203	19.941	476.55328	-89.0	-2.7	-94.3	79.7	22.70173	0.852	-95.9	70.4	37.0	33.5	33.3	45.69721	18-19
20	-2.685	19.870	499.31300	-77.7	-1.9	-96.1	83.9	22.52000	0.856	-101.7	70.3	37.9	34.1	31.8	44.94344	19-20
21	-2.555	18.200	473.89063	-74.8	-1.8	-95.6	82.9	21.64992	0.906	-100.6	68.6	43.0	27.5	25.1	50.66388	20-21
22	-2.440	16.673	455.56828	-70.1	-1.7	-95.2	81.9	20.90840	0.950	-99.7	67.1	48.2	21.0	18.5	46.33836	21-22
23	-2.336	15.258	443.33597	-61.6	-1.5	-94.9	80.9	20.26795	0.987	-99.0	65.7	53.4	14.9	12.0	42.94576	22-23
24	-2.240	13.932	436.38342	-42.9	-1.3	-94.6	77.2	19.32595	0.981	-98.3	64.3	58.5	9.6	5.6	40.23084	23-24
25	-0.944	13.964	433.69034	-84.9	-1.5	-93.7	74.3	19.54497	0.985	-94.2	64.4	58.0	6.4	6.4	39.28441	24-25
26	0.371	13.999	435.49594	-131.9	-1.6	-92.7	71.5	19.89436	0.994	-90.0	64.5	57.9	8.7	6.4	39.85035	25-26
27	1.715	14.038	441.97940	-152.0	-1.8	-91.7	66.0	20.20854	0.991	-85.7	64.5	58.0	14.0	5.8	40.71167	26-27
28	2.999	14.079	452.43353	-160.4	-2.0	-90.8	61.9	20.43266	0.973	-81.9	64.6	58.4	19.6	4.6	38.92827	27-28

RA-VIII CAMERA FA

15

FEB. 20, 1965 9 HR 53 MIN 44 SEC 2nd MS

TAB NO 15

ATLAS PHOTO NO 15

POD SEQUENCE NO 452

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
PHOTO DATA				232.488		422.05148	-0.713	12.895	2157.551	2.435	-49.250	73.900				
PT	LAT	LUN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.384	16.957	445.32180	-106.8	-2.6	-92.6	73.2	20.81455	0.935	-89.9	67.4	47.3	20.8	20.0	0.	1-
3	1.756	15.663	439.81143	-133.1	-2.5	-91.5	67.6	20.37029	0.958	-85.4	66.1	52.8	18.3	12.6	58.39118	2-3
4	1.783	17.032	452.47369	-122.2	-3.2	-91.2	69.1	21.05121	0.920	-85.0	67.5	47.5	23.7	19.3	43.28131	3-4
5	1.820	18.579	471.42595	-115.4	-3.9	-90.8	70.4	21.84160	0.876	-84.5	69.1	42.2	29.7	26.1	46.85387	4-5
6	0.368	18.481	463.70380	-102.8	-3.1	-92.5	74.4	21.57910	0.891	-89.9	68.9	41.9	27.4	26.9	44.05991	5-6
7	-1.048	18.403	461.33426	-89.2	-2.5	-94.1	78.5	21.36688	0.901	-95.3	68.8	42.2	26.7	26.6	42.97644	6-7
8	-0.983	16.896	443.23720	-83.6	-2.2	-93.9	77.4	20.62155	0.944	-94.9	67.3	47.5	19.9	19.8	45.69036	7-8
9	-0.922	15.500	431.18054	-87.9	-1.8	-93.8	76.2	19.97711	0.982	-94.5	65.9	52.8	13.2	13.1	42.31311	8-9
10	0.402	15.547	433.08903	-114.2	-2.1	-92.6	71.9	20.15442	0.972	-89.9	66.0	52.6	14.5	13.2	40.13747	9-10
11	1.756	15.603	439.81143	-133.1	-2.5	-91.5	67.6	20.37029	0.958	-85.4	66.1	52.8	18.3	12.6	41.04546	10-11
12	2.994	14.308	442.79469	-159.7	-2.0	-90.7	62.2	19.99671	0.973	-81.9	64.9	58.4	19.7	4.9	54.24221	11-12
13	3.052	15.663	450.56736	-144.2	-2.8	-90.3	63.8	20.60985	0.940	-81.2	66.2	53.3	23.0	11.3	41.02785	12-13
14	3.124	17.115	463.88214	-133.0	-3.7	-89.8	65.3	21.31543	0.901	-80.5	67.7	46.1	27.5	17.8	43.99018	13-14
15	3.213	18.691	483.65710	-125.1	-4.6	-89.3	66.7	22.13691	0.857	-79.6	69.3	43.0	32.9	24.5	47.72870	14-15
16	3.325	20.425	511.07126	-119.4	-5.5	-88.6	68.0	23.10819	0.805	-78.6	71.0	37.9	38.8	31.2	52.55776	15-16
17	1.869	20.278	497.76493	-116.8	-4.6	-90.5	71.6	22.77253	0.825	-84.0	70.8	37.0	36.1	33.0	44.34382	16-17
18	0.356	20.151	489.27321	-100.3	-3.6	-92.4	75.6	22.47700	0.841	-89.9	70.6	36.7	34.3	33.8	45.99641	17-18
19	-1.119	20.053	486.47535	-89.1	-2.8	-94.3	79.6	22.24068	0.851	-95.9	70.5	37.0	33.6	33.4	44.77767	18-19
20	-2.571	19.981	489.07937	-78.0	-1.9	-95.1	83.6	22.05766	0.855	-101.7	70.4	37.9	34.2	31.9	44.02082	19-20
21	-2.443	18.344	464.05931	-75.1	-1.9	-95.7	82.7	21.20020	0.906	-100.6	68.7	43.0	27.6	25.3	49.68037	20-21
22	-2.330	16.848	445.98708	-70.6	-1.7	-95.3	81.7	20.46827	0.949	-99.7	67.2	48.2	21.1	18.7	45.42298	21-22
23	-2.227	15.461	433.87319	-62.4	-1.5	-94.9	80.6	19.83508	0.987	-99.0	65.9	53.4	15.0	12.2	42.07609	22-23
24	-2.134	14.163	426.72188	-44.4	-1.3	-94.7	77.0	18.91074	0.981	-98.3	64.6	58.5	9.7	5.9	39.39123	23-24
25	-0.865	14.194	424.35557	-85.8	-1.5	-93.7	74.2	19.13274	0.986	-94.2	64.6	58.0	6.7	6.6	38.43109	24-25
26	0.422	14.228	426.17297	-131.2	-1.6	-92.7	71.6	19.47952	0.995	-90.0	64.7	57.9	8.9	6.7	38.99718	25-26
27	1.737	14.267	432.57005	-151.2	-1.8	-91.7	66.1	19.77716	0.991	-85.7	64.8	58.0	14.1	6.1	39.84683	26-27
28	2.994	14.308	442.79469	-159.7	-2.0	-90.7	62.2	19.99671	0.973	-81.9	64.9	58.4	19.7	4.9	38.10177	27-28

RA-VIII CAMERA FA

16

FEB. 20, 1965 9 HR 53 MIN 42 SEC 3rd MS

TAB NO 16

ATLAS PHOTO NO 16

POD SEQUENCE NO 454

TRAJECTORY DATA				SEC TO IMPACT				ALT	LAT	LON	R	V	PTH	AZ		
PHOTO DATA				227.368				412.60776	-0.653	13.104	2148.108	2.439	-49.114	73.898		
PT	LAT	LUN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.436	17.131	435.88621	-106.8	-2.7	-92.6	73.2	20.37353	0.934	-89.9	67.6	47.3	21.0	20.2	0.	1-2
3	1.778	15.904	430.33259	-132.7	-2.5	-91.4	67.8	19.93341	0.957	-85.4	66.3	52.8	18.4	12.8	57.15710	2-3
4	1.805	17.204	442.92585	-122.0	-3.2	-91.1	69.1	20.60690	0.919	-85.0	67.7	47.5	23.8	19.5	42.40490	3-4
5	1.842	18.721	461.62482	-115.3	-3.9	-90.8	70.4	21.38746	0.875	-84.5	69.2	42.2	29.9	26.3	45.93072	4-5
6	0.421	18.624	454.07028	-102.9	-3.2	-92.5	74.4	21.12845	0.890	-89.9	69.1	41.9	27.6	27.0	43.14931	5-6
7	-0.966	18.547	451.63558	-89.1	-2.5	-94.1	78.4	20.91750	0.900	-95.3	69.0	42.2	26.9	26.7	42.07954	6-7
8	-0.902	17.070	433.78746	-88.8	-2.2	-94.0	77.3	20.18180	0.943	-94.9	67.5	47.5	20.1	20.0	44.77629	7-8
9	-0.843	15.703	421.86857	-83.3	-1.9	-93.8	76.1	19.54472	0.981	-94.5	66.1	52.8	13.4	13.3	41.44459	8-9
10	0.453	15.749	423.76944	-114.1	-2.2	-92.6	71.9	19.72070	0.972	-89.9	66.2	52.6	14.7	13.4	39.27381	9-10
11	1.778	15.804	430.33259	-132.7	-2.5	-91.4	67.8	19.93341	0.957	-85.4	66.3	52.8	18.4	12.8	40.16960	10-11
12	2.988	14.536	433.15556	-159.0	-2.0	-90.7	62.5	19.56077	0.972	-81.9	65.1	58.4	19.8	5.1	53.05247	11-12
13	3.046	15.363	440.92314	-143.8	-2.9	-90.3	64.0	20.16820	0.939	-81.2	66.4	53.3	23.1	11.5	40.17331	12-13
14	3.118	17.286	454.11107	-132.8	-3.7	-89.8	65.4	20.86606	0.900	-80.5	67.9	48.1	27.7	18.0	43.10366	13-14
15	3.207	18.831	473.62128	-125.0	-4.6	-89.2	66.8	21.67729	0.855	-79.6	69.4	44.9	33.0	24.6	46.79260	14-15
16	3.318	20.532	500.60929	-119.4	-5.5	-88.5	68.1	22.63496	0.804	-78.6	71.1	37.9	38.9	31.3	51.54703	15-16
17	1.891	20.387	487.55496	-110.8	-4.6	-90.4	71.6	22.30541	0.824	-84.0	70.9	37.0	36.3	33.1	43.44134	16-17
18	0.409	20.261	479.18940	-100.4	-3.7	-92.4	75.5	22.01370	0.840	-89.9	70.7	36.7	34.4	33.9	45.05958	17-18
19	-1.036	20.164	476.37650	-89.3	-2.8	-94.3	79.4	21.77868	0.850	-95.9	70.6	37.0	33.7	33.5	43.85609	18-19
20	-2.457	20.092	478.32362	-78.2	-2.0	-96.2	83.4	21.59458	0.855	-101.7	70.5	37.9	34.3	32.0	43.09673	19-20
21	-2.331	18.498	454.21669	-75.5	-1.9	-95.7	82.4	20.74999	0.905	-100.6	68.9	43.0	27.7	25.5	48.69307	20-21
22	-2.220	17.022	436.40037	-71.1	-1.7	-95.3	81.4	20.02790	0.948	-99.7	67.4	48.2	21.2	18.9	44.50489	21-22
23	-2.119	15.664	424.41090	-63.1	-1.5	-95.0	80.4	19.40223	0.986	-99.0	66.1	53.4	15.1	12.4	41.20493	22-23
24	-2.027	14.394	417.46715	-45.9	-1.3	-94.8	76.8	18.49605	0.981	-98.3	64.8	58.5	9.7	6.1	38.55136	23-24
25	-0.787	14.424	416.85163	-130.5	-1.5	-93.7	74.2	18.72066	0.986	-94.2	64.8	58.0	6.9	6.8	37.57860	24-25
26	0.472	14.458	423.14095	-150.5	-1.6	-92.7	71.7	19.06460	0.996	-90.0	64.9	57.9	9.1	6.9	38.14426	25-26
27	1.759	14.496	423.14095	-150.5	-1.8	-91.7	66.3	19.34581	0.990	-85.7	65.0	58.0	14.3	6.3	38.98187	26-27
28	2.988	14.536	433.15556	-159.0	-2.0	-90.7	62.5	19.56077	0.972	-81.9	65.1	58.4	19.8	5.1	37.27518	27-28

RA-VIII CAMERA FA

17

FEB. 20, 1965 9 HR 53 MIN 54 SEC 508 MS

TAB NO 17

ATLAS PHOTO NO 17

POD SEQUENCE NO 456

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
PHOTO DATA				222.248		403.16757	-0.592	13.314	2138.668	2.443	-48.978	73.896				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT		
2	0.488	17.303	426.43353	-106.9	-2.7	-92.6	73.1	19.93170	0.932	-89.9	67.8	47.3	21.2	20.3	0.	1-2
3	1.800	16.005	420.94333	-132.4	-2.5	-91.4	67.9	19.49606	0.956	-85.4	66.5	52.8	18.6	13.0	55.92081	2-3
4	1.828	17.376	433.35888	-121.9	-3.2	-91.1	69.2	20.16170	0.918	-85.0	67.9	47.5	24.0	19.6	41.52509	3-4
5	1.865	18.862	451.79532	-115.2	-3.9	-90.8	70.5	20.93200	0.873	-84.5	69.4	42.2	30.0	26.4	45.00218	4-5
6	0.474	18.767	444.31075	-102.9	-3.2	-92.5	74.3	20.67659	0.889	-89.9	69.2	41.9	27.8	27.2	42.23595	5-6
7	-0.884	18.690	441.91377	-89.3	-2.6	-94.2	78.2	20.46705	0.899	-95.3	69.1	42.2	27.0	26.9	41.18027	6-7
8	-0.821	17.243	424.32316	-89.1	-2.2	-94.0	77.1	19.74138	0.942	-94.9	67.7	47.5	20.2	20.1	43.85755	7-8
9	-0.763	15.905	412.51025	-88.7	-1.9	-93.9	76.0	19.11202	0.980	-94.5	66.3	52.8	13.6	13.5	40.57322	8-9
10	0.504	15.951	414.44098	-114.0	-2.2	-92.6	71.9	19.28658	0.971	-90.0	66.4	52.6	14.9	13.6	38.40941	9-10
11	1.800	16.005	420.94333	-132.4	-2.5	-91.4	67.9	19.49606	0.956	-85.4	66.5	52.8	18.6	13.0	39.29261	10-11
12	2.983	14.764	423.51405	-158.4	-2.0	-90.6	62.7	19.12475	0.972	-81.9	65.3	53.4	19.9	5.3	51.68275	11-12
13	3.041	16.063	431.26755	-143.4	-2.9	-90.2	64.2	19.72604	0.938	-81.2	66.6	53.3	23.2	11.7	39.31702	12-13
14	3.112	17.457	444.31948	-132.5	-3.7	-89.7	65.6	20.41576	0.899	-80.5	68.0	46.1	27.8	18.2	42.21308	13-14
15	3.201	18.970	463.55519	-124.8	-4.6	-89.2	66.9	21.21629	0.854	-79.6	69.5	42.9	33.2	24.8	45.85070	14-15
16	3.310	20.637	490.10623	-119.3	-5.5	-88.5	68.2	22.15988	0.803	-78.6	71.2	37.9	39.0	31.4	50.58217	15-16
17	1.913	20.495	477.30607	-110.8	-4.6	-90.4	71.7	21.83651	0.823	-84.0	71.0	37.0	36.4	33.2	42.53498	16-17
18	0.462	20.371	469.06974	-100.5	-3.7	-92.4	75.4	21.54876	0.838	-89.9	70.8	36.7	34.5	34.0	44.11891	17-18
19	-0.952	20.274	466.24511	-89.5	-2.9	-94.4	79.3	21.31520	0.849	-95.9	70.7	37.0	33.8	33.6	42.93123	18-19
20	-2.342	20.202	468.54070	-78.6	-2.1	-94.3	92.1	21.12024	0.854	-101.7	70.6	37.0	34.4	32.1	42.17053	19-20
21	-2.219	18.631	444.35439	-75.8	-1.9	-95.8	82.2	20.29890	0.904	-100.6	69.0	43.0	27.8	25.6	47.69956	20-21
22	-2.110	17.195	426.80236	-71.5	-1.8	-95.4	81.2	19.58703	0.947	-99.7	67.6	46.2	21.3	19.1	43.58249	21-22
23	-2.011	15.867	414.94535	-63.9	-1.6	-95.1	80.2	18.96925	0.986	-99.0	66.3	53.4	15.2	12.6	40.33119	22-23
24	-1.920	14.624	408.01731	-47.4	-1.3	-94.8	76.5	18.08165	0.981	-98.3	65.0	58.5	9.8	6.3	37.71061	23-24
25	-0.708	14.654	405.69540	-87.6	-1.5	-93.8	74.1	18.30853	0.986	-94.2	65.1	58.0	7.1	7.1	36.72663	24-25
26	0.523	14.687	407.52994	-129.8	-1.7	-92.7	71.7	18.64941	0.996	-90.0	65.1	57.9	9.3	7.1	37.29144	25-26
27	1.780	14.725	413.71011	-149.7	-1.8	-91.6	66.5	18.91438	0.989	-85.7	65.2	58.0	14.4	6.5	38.11662	26-27
28	2.983	14.764	423.51405	-158.4	-2.0	-90.6	62.7	19.12475	0.972	-81.9	65.3	58.4	19.9	5.3	36.44824	27-28

RA-VIII CAMERA FA

18

FEB. 20, 1965 9 HR 53 MIN 59 SEC 628 MS

TAB NO 18

ATLAS PHOTO NO 18

POD SEQUENCE NO 458

TRAJECTORY DATA				SEC TO IMPACT				ALT	LAT	LON	R	V	PTH	AZ		
PHOTO DATA				217.128				393.73099	-0.531	13.526	2129.231	2.448	-48.840	73.894		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.540	17.475	416.96428	-106.9	-2.7	-92.6	73.1	19.48911	0.931	-89.9	67.9	47.3	21.4	20.5	0.	1-2
3	1.823	16.205	411.49386	-132.0	-2.5	-91.3	68.0	19.05824	0.955	-85.4	66.7	52.8	18.8	13.2	54.68235	2-3
4	1.850	17.547	423.77337	-121.7	-3.2	-91.1	69.3	19.71564	0.916	-85.0	68.1	47.5	24.2	19.8	40.64197	3-4
5	1.887	19.002	441.93850	-115.2	-3.9	-90.8	70.5	20.47528	0.872	-84.5	69.5	42.2	30.2	26.5	44.06847	4-5
6	0.526	18.908	434.57629	-103.0	-3.2	-92.5	74.3	20.22358	0.887	-89.9	69.4	41.9	27.9	27.3	41.31984	5-6
7	-0.802	18.832	432.16988	-89.5	-2.6	-94.2	78.1	20.01559	0.898	-95.3	69.3	42.2	27.1	27.0	40.27881	6-7
8	-0.740	17.416	414.84489	-89.4	-2.2	-94.1	77.0	19.30031	0.941	-94.9	67.8	47.5	20.4	20.3	42.93436	7-8
9	-0.683	16.107	403.16574	-89.1	-1.9	-93.9	75.9	18.67904	0.980	-94.5	66.5	52.8	13.8	13.7	39.69911	8-9
10	0.556	16.152	405.10408	-113.9	-2.2	-92.6	71.9	18.85207	0.970	-90.0	66.6	52.6	15.1	13.8	37.54422	9-10
11	1.823	16.205	411.49386	-132.0	-2.5	-91.3	68.0	19.05824	0.955	-85.4	66.7	52.8	18.8	13.2	38.41452	10-11
12	2.978	14.992	413.86999	-157.8	-2.0	-90.5	63.0	18.68865	0.971	-81.9	65.6	58.4	19.9	5.6	50.70302	11-12
13	3.036	16.262	421.60076	-143.0	-2.9	-90.1	64.4	19.28341	0.937	-81.2	66.8	53.3	23.3	11.9	38.45905	12-13
14	3.107	17.626	434.50803	-132.3	-3.7	-89.7	65.8	19.96457	0.898	-80.5	68.2	48.1	27.9	18.4	41.31916	13-14
15	3.194	19.109	453.46004	-124.7	-4.6	-89.1	67.0	20.75398	0.853	-79.6	69.7	42.9	33.3	24.9	44.90328	14-15
16	3.302	20.742	479.56394	-119.2	-5.5	-88.4	68.3	21.68304	0.802	-78.6	71.3	37.9	39.1	31.5	49.50161	15-16
17	1.935	20.601	467.02033	-110.8	-4.6	-90.4	71.7	21.36593	0.822	-84.0	71.1	37.0	36.5	33.3	41.62490	16-17
18	0.515	20.479	458.21597	-100.6	-3.8	-92.4	75.4	21.08226	0.837	-89.9	70.9	36.7	34.6	34.1	43.17458	17-18
19	-0.868	20.384	456.08286	-89.6	-2.9	-94.4	79.1	20.85032	0.848	-95.9	70.8	37.0	33.9	33.8	42.00326	18-19
20	-2.228	20.311	458.24278	-78.7	-2.2	-96.4	82.9	20.66471	0.853	-101.7	70.7	37.9	34.4	32.3	41.24212	19-20
21	-2.107	18.773	434.47350	-76.1	-2.0	-95.9	81.9	19.84699	0.903	-100.6	69.2	43.0	27.9	25.8	46.70024	20-21
22	-2.000	17.368	417.19362	-72.0	-1.8	-95.5	80.9	19.14569	0.947	-99.7	67.8	46.2	21.5	19.3	42.65598	21-22
23	-1.902	16.069	405.47670	-64.7	-1.6	-95.2	79.9	18.53614	0.985	-99.0	66.5	53.4	15.3	12.8	39.45504	22-23
24	-1.814	14.854	398.57212	-48.9	-1.3	-94.9	76.3	17.66754	0.981	-98.3	65.3	58.5	9.9	6.6	36.86903	23-24
25	-0.630	14.883	396.36788	-88.4	-1.5	-93.8	74.0	17.89631	0.987	-94.2	65.3	58.0	7.3	7.3	35.87539	24-25
26	0.573	14.916	398.20770	-129.2	-1.7	-92.7	71.8	18.23391	0.997	-90.0	65.4	57.9	9.5	7.4	36.43848	25-26
27	1.802	14.953	404.27730	-149.0	-1.9	-91.6	66.7	18.48288	0.989	-85.7	65.5	58.0	14.6	6.8	37.25105	26-27
28	2.978	14.992	413.86999	-157.8	-2.0	-90.5	63.0	18.68865	0.971	-81.9	65.6	58.4	19.9	5.6	35.62098	27-28

RA-VIII CAMERA FA

19

FEB. 20, 1965 9 HR 54 MIN 4 SEC 747 MS

TAB NO 19

ATLAS PHOTO NO 19

POD SEQUENCE NO 460

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				212.008		384.29840	-0.469	13.741	2119.798	2.452	-48.702	73.893				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.592	17.647	407.48356	-106.9	-2.7	-92.6	73.1	19.04597	0.930	-89.9	68.1	47.3	21.5	20.7	0.	1-2
3	1.845	16.405	402.03751	-131.7	-2.6	-91.3	68.1	18.62011	0.954	-85.4	66.9	52.8	18.9	13.4	53.44243	2-3
4	1.873	17.718	414.17453	-121.5	-3.2	-91.1	69.4	19.26896	0.915	-85.0	68.2	47.5	24.3	20.0	39.75647	3-4
5	1.909	19.142	432.06187	-115.1	-3.9	-90.8	70.5	20.01764	0.871	-84.5	69.7	42.2	30.3	26.7	43.13104	4-5
6	0.579	19.050	424.82413	-103.1	-3.3	-92.5	74.2	19.76974	0.886	-89.9	69.5	41.9	28.1	27.4	40.40167	5-6
7	-0.719	18.975	422.41105	-89.7	-2.6	-94.3	77.2	19.56344	0.897	-95.3	67.4	52.2	27.3	27.2	39.37575	6-7
8	-0.659	17.589	405.35763	-89.7	-2.3	-94.1	76.9	18.85883	0.940	-94.9	68.0	47.5	20.6	20.5	42.00805	7-8
9	-0.603	16.308	393.81823	-89.5	-1.9	-94.0	75.8	18.24592	0.979	-94.5	66.7	52.8	14.0	13.9	38.82311	8-9
10	0.607	16.353	395.76187	-113.8	-2.2	-92.7	71.9	18.41730	0.969	-90.0	66.8	52.6	15.3	14.0	36.67868	9-10
11	1.845	16.405	402.03751	-131.7	-2.6	-91.3	68.1	18.62011	0.954	-85.4	66.9	52.8	18.9	13.4	37.55989	10-11
12	2.972	15.220	404.22510	-157.1	-2.1	-90.4	63.3	18.25252	0.971	-81.9	65.8	58.4	20.0	12.1	37.59989	11-12
13	3.030	16.461	411.92628	-142.6	-2.9	-90.0	64.6	18.84043	0.936	-81.2	67.0	53.3	23.4	12.1	37.55989	12-13
14	3.101	17.796	424.68213	-132.1	-3.7	-89.6	65.9	19.51273	0.897	-80.5	68.4	48.1	28.0	18.5	40.42262	13-14
15	3.187	19.247	443.34370	-124.6	-4.6	-89.1	67.2	20.29071	0.852	-79.6	69.8	43.0	33.4	25.1	43.95188	14-15
16	3.294	20.846	468.99338	-119.1	-5.5	-88.4	68.3	21.20492	0.801	-78.6	71.4	37.9	39.2	31.6	48.46967	15-16
17	1.957	20.708	456.70801	-110.8	-4.6	-90.4	71.7	20.89414	0.820	-84.0	71.2	37.0	36.6	33.4	40.71211	16-17
18	0.568	20.588	448.73810	-100.6	-3.8	-92.5	75.3	20.61465	0.836	-89.9	71.0	36.7	34.7	34.2	42.22755	17-18
19	-0.785	20.493	445.89961	-89.8	-3.0	-94.5	79.0	20.38450	0.847	-95.9	70.9	37.0	34.0	33.9	41.07324	18-19
20	-2.114	20.421	447.91932	-79.0	-2.2	-96.4	82.6	20.19845	0.852	-101.7	70.8	37.9	34.5	32.4	40.31243	19-20
21	-1.995	18.916	424.58118	-76.4	-2.0	-96.0	81.7	19.39458	0.902	-100.6	69.3	43.0	28.0	25.9	45.69714	20-21
22	-1.889	17.541	407.57914	-72.5	-1.8	-95.6	80.7	18.70409	0.946	-99.7	67.9	48.2	21.6	19.4	41.72676	21-22
23	-1.794	16.271	396.00818	-65.4	-1.6	-95.3	79.7	18.10304	0.985	-99.0	66.7	53.4	15.5	13.1	38.57725	22-23
24	-1.707	15.084	389.13322	-50.3	-1.4	-95.0	76.1	17.25384	0.982	-98.3	65.5	58.5	10.0	6.8	36.02706	23-24
25	-0.551	15.113	387.04362	-89.1	-1.5	-93.9	73.9	17.48415	0.987	-94.2	65.5	58.0	7.5	7.5	35.02478	24-25
26	0.623	15.145	388.88657	-124.6	-1.7	-92.7	71.8	17.81825	0.997	-90.0	65.6	57.9	9.7	7.6	35.58577	25-26
27	1.824	15.182	394.84422	-148.2	-1.9	-91.5	66.8	18.05137	0.988	-85.7	65.7	58.0	14.7	7.0	36.38534	26-27
28	2.972	15.220	404.22510	-157.1	-2.1	-90.4	63.3	18.25252	0.971	-81.9	65.8	58.4	20.0	5.8	34.79350	27-28

RA-VIII CAMERA FA

20

FEB. 20, 1965 9 HR 54 MIN 9 SEC 867 MS

TAB NO 20

ATLAS PHOTO NO 20

POD SEQUENCE NO 462

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				206.888		374.86972	-0.406	13.957	2110.370	2.456	-48.562	73.892				
PHOTO DATA																
P	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.643	17.820	397.99532	-106.9	-2.8	-92.6	73.1	18.60249	0.929	-90.0	68.3	47.3	21.7	20.9	0.	1-2
3	1.867	16.606	392.57679	-131.3	-2.6	-91.3	68.2	18.18178	0.953	-85.4	67.1	52.8	19.1	13.6	52.20163	2-3
4	1.895	17.889	404.56655	-121.4	-3.3	-91.0	69.4	18.82187	0.914	-85.0	68.4	47.5	24.5	20.2	38.86937	3-4
5	1.931	19.283	422.17162	-115.0	-4.0	-90.7	70.6	19.55938	0.870	-84.6	69.8	42.2	30.4	26.8	42.19111	4-5
6	0.631	19.191	415.06019	-103.1	-3.3	-92.5	74.2	19.31535	0.885	-89.9	69.7	41.9	28.2	27.6	39.48207	5-6
7	-0.637	19.117	412.64299	-89.9	-2.7	-94.3	77.8	19.11088	0.895	-95.3	69.5	42.2	27.4	27.3	38.47168	6-7
8	-0.578	17.762	395.86519	-89.9	-2.3	-94.1	76.8	18.41712	0.939	-94.9	68.2	47.5	20.7	20.7	41.07982	7-8
9	-0.524	16.510	384.47000	-89.9	-1.9	-94.0	75.7	17.81277	0.978	-94.5	66.9	52.8	14.2	14.1	37.94592	8-9
10	0.658	16.554	386.41674	-113.7	-2.2	-92.7	71.9	17.98241	0.968	-90.0	67.0	52.6	15.5	14.3	35.81297	9-10
11	1.867	16.606	392.57679	-131.3	-2.6	-91.3	68.2	18.18178	0.953	-85.4	67.1	52.8	19.1	13.6	36.65624	10-11
12	2.966	15.448	394.58063	-156.5	-2.1	-90.4	63.5	17.81644	0.970	-81.9	66.0	58.4	20.1	6.1	48.34427	11-12
13	3.024	16.661	402.24677	-142.2	-2.9	-90.0	64.8	18.39724	0.935	-81.2	67.2	53.3	23.6	12.3	36.74001	12-13
14	3.094	17.966	414.84624	-131.8	-3.8	-89.5	66.1	19.06044	0.896	-80.5	68.5	48.1	28.2	18.7	39.52435	13-14
15	3.180	19.385	433.21269	-124.4	-4.6	-89.0	67.3	19.82677	0.851	-79.6	70.0	43.0	33.5	25.2	42.99784	14-15
16	3.285	20.950	458.40388	-119.0	-5.5	-88.4	68.4	20.72595	0.800	-78.6	71.5	37.9	39.3	31.7	47.43441	15-16
17	1.978	20.815	446.37792	-110.7	-4.7	-90.4	71.7	20.42153	0.819	-84.0	71.3	37.0	36.7	33.5	39.79753	16-17
18	0.621	20.696	438.54451	-100.7	-3.8	-92.5	75.2	20.14632	0.835	-89.9	71.2	36.7	34.8	34.3	41.27867	17-18
19	-0.701	20.602	435.70353	-89.9	-3.0	-94.5	78.8	19.91810	0.846	-95.9	71.0	37.0	34.1	34.0	40.14176	18-19
20	-1.999	20.530	437.58678	-79.2	-2.3	-96.5	82.4	19.73180	0.852	-101.7	70.9	37.9	34.6	32.5	39.38211	19-20
21	-1.883	19.058	414.68310	-76.8	-2.1	-96.0	81.5	18.94192	0.901	-100.6	69.5	43.0	28.1	26.1	44.69198	20-21
22	-1.779	17.715	397.96270	-72.9	-1.9	-95.6	80.5	18.26242	0.945	-99.7	68.1	48.2	21.7	19.6	40.79597	21-22
23	-1.686	16.473	386.54199	-66.1	-1.6	-95.3	79.5	17.67006	0.984	-99.0	66.9	53.4	15.6	13.3	37.69859	22-23
24	-1.600	15.314	379.70147	-51.7	-1.4	-95.1	75.9	16.84064	0.982	-98.3	65.7	58.5	10.1	7.1	35.18507	23-24
25	-0.473	15.343	377.72354	-89.8	-1.5	-93.9	73.8	17.07217	0.988	-94.2	65.8	58.0	7.8	7.8	34.17501	24-25
26	0.674	15.375	379.56756	-128.1	-1.7	-92.7	71.9	17.40255	0.998	-90.0	65.8	57.9	10.0	7.8	34.73330	25-26
27	1.846	15.411	385.41198	-147.5	-1.9	-91.5	67.0	17.61991	0.987	-85.7	65.9	58.0	14.8	7.2	35.51957	26-27
28	2.966	15.448	394.58063	-156.5	-2.1	-90.4	63.5	17.81644	0.970	-81.9	66.0	58.4	20.1	6.1	33.96599	27-28

RA-VIII CAMERA FA

21

FEB. 20, 1965 9 HR 54 MIN 14 SEC 987 MS

TAB NO 21

ATLAS PHOTO NO 21

POD SEQUENCE NO 464

TRAJECTORY DATA				SEC TO IMPACT				ALT	LAT	LON	R	V	PTH	AZ		
PHOTO DATA				201.768				365.44507	-0.343	14.175	2100.945	2.460	-48.421	73.891		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.695	17.993	388.49749	-106.9	-2.8	-92.6	73.1	18.15856	0.928	-90.0	68.5	47.3	21.9	21.0	0.	1-2
3	1.889	16.807	383.11031	-131.0	-2.6	-91.2	68.3	17.74319	0.952	-85.4	67.3	52.8	19.3	13.8	50.95961	2-3
4	1.917	18.061	394.94726	-121.2	-3.3	-91.0	69.5	18.37425	0.913	-85.0	68.6	47.5	24.6	20.3	37.98023	3-4
5	1.953	19.423	412.26468	-115.0	-4.0	-90.7	70.6	19.10034	0.868	-84.6	69.9	42.2	30.6	27.0	41.24812	4-5
6	0.683	19.333	405.28151	-103.2	-3.3	-92.5	74.1	18.86028	0.884	-89.9	69.8	41.9	28.4	27.7	38.56072	5-6
7	-0.555	19.260	402.86288	-90.1	-2.7	-94.3	77.7	18.65775	0.894	-95.3	69.7	42.2	27.6	27.5	37.56624	6-7
8	-0.497	17.935	386.36562	-90.2	-2.3	-94.2	76.6	17.97507	0.938	-94.9	68.4	47.5	20.9	20.8	40.14905	7-8
9	-0.444	16.713	375.11976	-90.3	-1.9	-94.0	75.6	17.37953	0.977	-94.5	67.1	52.8	14.4	14.3	37.06720	8-9
10	0.709	16.756	377.06737	-113.6	-2.3	-92.7	71.9	17.54732	0.967	-90.0	67.2	52.6	15.7	14.5	34.94686	9-10
11	1.889	16.807	383.11031	-131.0	-2.6	-91.2	68.3	17.74319	0.952	-85.4	67.3	52.8	19.3	13.8	35.77613	10-11
12	2.961	15.676	384.93578	-155.9	-2.1	-90.3	63.8	17.38036	0.969	-81.9	66.2	58.4	20.2	6.3	47.16527	11-12
13	3.019	16.861	404.99810	-131.6	-3.8	-89.5	66.2	17.95377	0.934	-81.2	67.4	53.3	23.7	12.5	35.87912	12-13
14	3.088	18.136	404.99810	-141.8	-2.9	-89.9	65.0	18.60760	0.895	-80.5	68.7	48.1	28.3	18.9	38.62386	13-14
15	3.173	19.524	423.06383	-124.3	-4.6	-89.0	67.4	19.36203	0.850	-79.6	70.1	42.9	33.6	25.4	42.04050	14-15
16	3.277	21.054	447.79095	-118.9	-5.5	-88.3	68.5	20.24593	0.799	-78.6	71.6	37.9	39.4	31.9	46.39488	15-16
17	2.000	20.922	436.02579	-110.7	-4.7	-90.4	71.7	19.67708	0.834	-89.9	71.3	36.7	35.0	34.5	40.32754	16-17
18	0.674	20.805	428.33112	-100.8	-3.9	-92.5	75.2	19.67708	0.818	-84.0	71.4	37.0	36.8	33.6	38.88072	17-18
19	-0.618	20.712	425.49061	-90.1	-3.1	-94.6	78.6	19.45093	0.845	-95.9	71.1	37.0	34.2	34.1	39.20858	18-19
20	-1.225	20.640	427.41330	-77.2	-2.4	-96.0	84.2	19.26458	0.851	-101.7	71.0	37.9	34.7	32.6	38.45083	19-20
21	-1.771	19.201	404.77642	-77.1	-2.1	-96.1	81.2	18.48888	0.900	-100.6	69.6	43.0	28.2	26.2	43.68397	20-21
22	-1.670	17.888	388.34230	-73.4	-1.9	-95.7	80.3	18.20058	0.944	-99.7	68.3	48.2	21.8	19.8	39.86299	21-22
23	-1.578	16.676	377.07684	-66.9	-1.7	-95.4	79.3	17.23714	0.983	-99.0	67.1	53.4	15.7	13.5	36.81867	22-23
24	-1.494	15.545	370.27620	-53.0	-1.4	-95.1	75.6	16.42786	0.982	-98.3	66.0	58.5	10.2	7.3	34.34285	23-24
25	-0.394	15.573	368.40698	-90.4	-1.5	-93.9	73.8	16.66026	0.988	-94.2	66.0	58.0	8.0	8.0	33.32598	24-25
26	0.724	15.604	370.24996	-127.5	-1.7	-92.7	72.0	16.98673	0.999	-90.0	66.1	57.9	10.2	8.0	33.88097	25-26
27	1.868	15.640	375.97983	-146.8	-1.9	-91.5	67.1	17.18846	0.987	-85.8	66.2	58.0	15.0	7.5	34.65368	26-27
28	2.961	15.676	384.93578	-155.9	-2.1	-90.3	63.8	17.38036	0.969	-81.9	66.2	58.4	20.2	6.3	33.13834	27-28

RA-VIII CAMERA FA

22

FEB. 20, 1965 9 HR 54 MIN 20 SEC 107 MS

TAB NO 22

ATLAS PHOTO NO 22

POD SEQUENCE NO 466

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LGN	R	V	PTH	AZ				
PHOTO DATA				196.648		356.02493	-0.280	14.395	2091.525	2.464	-48.279	73.890				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.747	18.165	378.98698	-107.0	-2.8	-92.6	73.0	17.71403	0.927	-90.0	68.6	47.3	22.1	21.2	0.	1-2
3	1.911	17.008	373.63596	-130.6	-2.6	-91.2	68.5	17.30424	0.951	-85.4	67.5	52.8	19.4	14.0	49.71593	2-3
4	1.939	18.233	385.31343	-121.1	-3.3	-91.0	69.6	17.92596	0.912	-85.0	68.7	47.5	24.8	20.5	37.08847	3-4
5	1.975	19.563	402.33638	-114.9	-4.0	-90.7	70.7	18.64031	0.867	-84.6	70.1	42.2	30.7	27.1	40.30107	4-5
6	0.735	19.475	395.48366	-103.2	-3.4	-92.6	74.1	18.40431	0.882	-90.0	69.9	41.9	28.5	27.9	37.63716	5-6
7	-0.473	19.402	393.06641	-90.3	-2.8	-94.4	77.5	18.03388	0.893	-95.3	69.8	42.2	27.7	27.6	36.65912	6-7
8	-0.417	18.109	376.85588	-90.4	-2.4	-94.2	76.5	17.53255	0.937	-94.9	68.5	47.5	21.1	21.0	39.21492	7-8
9	-0.364	16.915	365.76561	-90.6	-2.0	-94.1	75.5	16.94611	0.976	-94.5	67.4	52.6	14.6	14.5	36.18635	8-9
10	0.760	16.958	367.71174	-113.5	-2.3	-92.7	72.0	17.11193	0.966	-90.0	67.4	52.6	15.9	14.7	34.08017	9-10
11	1.911	17.008	373.63596	-130.6	-2.6	-91.2	68.5	17.30424	0.951	-85.4	67.5	52.8	19.4	14.0	34.89514	10-11
12	2.955	15.905	375.28930	-155.3	-2.1	-90.2	64.0	16.94423	0.969	-81.9	66.5	58.4	20.3	6.5	45.98629	11-12
13	3.013	17.061	382.86609	-141.4	-2.9	-89.8	65.2	17.50992	0.934	-81.2	67.6	53.3	23.8	12.7	35.01682	12-13
14	3.082	18.306	395.13425	-131.3	-3.8	-89.4	66.4	18.15404	0.894	-80.5	68.9	48.1	28.4	19.1	37.72053	13-14
15	3.165	19.662	412.89215	-124.1	-4.6	-88.9	67.5	18.89625	0.849	-79.6	70.2	42.9	33.7	25.5	41.07887	14-15
16	3.267	21.158	437.14779	-118.9	-5.5	-88.3	68.6	19.76455	0.798	-78.6	71.7	37.9	39.5	32.0	45.34959	15-16
17	2.021	21.028	425.64523	-110.7	-4.7	-90.3	71.7	19.47300	0.817	-84.0	71.5	37.0	36.9	33.8	37.96103	16-17
18	0.726	20.913	418.09183	-100.8	-3.9	-92.5	75.1	19.20666	0.833	-89.9	71.4	36.7	35.1	34.6	39.37353	17-18
19	-0.534	20.821	415.25498	-90.3	-3.1	-94.6	78.5	18.98274	0.844	-95.9	71.3	37.0	34.3	34.2	38.27306	18-19
20	-1.771	20.749	416.87709	-79.7	-2.4	-96.7	81.9	18.79655	0.850	-101.7	71.2	37.9	34.8	32.8	37.51805	19-20
21	-1.659	19.344	394.85691	-77.4	-2.2	-96.2	81.0	18.03527	0.899	-100.7	69.8	43.0	28.3	26.4	42.67188	20-21
22	-1.560	18.062	378.71506	-73.8	-2.0	-95.8	80.0	17.37843	0.943	-99.8	68.5	48.2	22.0	20.0	38.92704	21-22
23	-1.470	16.879	367.61088	-67.6	-1.7	-95.5	79.1	16.80418	0.983	-99.0	67.3	53.4	15.9	13.7	35.93694	22-23
24	-1.388	15.775	360.95644	-54.4	-1.4	-95.2	75.4	16.01539	0.983	-98.3	66.2	58.5	10.3	7.5	33.50001	23-24
25	-0.316	15.803	359.09295	-91.1	-1.6	-94.0	73.7	16.24830	0.989	-94.2	66.2	59.0	8.2	8.2	32.47758	24-25
26	0.774	15.834	360.93269	-127.0	-1.7	-92.7	72.0	16.57064	0.999	-90.0	66.3	57.9	10.4	8.3	33.02874	25-26
27	1.889	15.869	366.54662	-146.1	-1.9	-91.4	67.3	16.75697	0.986	-85.8	66.4	58.0	15.1	7.7	33.78754	26-27
28	2.955	15.905	375.28930	-155.3	-2.1	-90.2	64.0	16.94423	0.969	-81.9	66.5	58.4	20.3	6.5	32.31043	27-28

RA-VIII CAMERA FA

23

FEB. 20, 1965 9 HR 54 MIN 25 SEC 227 MS										TAB NO	23	ATLAS PHOTO NO	23	POD SEQUENCE NO 468			
TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
					191.528		346.60922	-0.216	14.617	2082.109	2.469	-48.135	73.889				
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	0.798	18.337	369.46149	-107.0	-2.8	-92.6	73.0	17.26880	0.925	-90.0	68.8	47.3	22.3	21.4	0.	1-2	
3	1.933	17.208	364.15197	-130.3	-2.6	-91.2	68.6	16.86485	0.950	-85.4	67.7	52.8	19.6	14.2	48.47027	2-3	
4	1.961	18.404	375.66263	-120.9	-3.3	-90.9	69.6	17.47688	0.911	-85.0	68.9	47.5	25.0	20.7	36.19365	3-4	
5	1.996	19.703	392.38355	-114.8	-4.0	-90.7	70.7	18.17915	0.866	-84.6	70.2	42.2	30.9	27.3	39.34940	4-5	
6	0.757	17.616	385.66357	-103.3	-3.4	-92.6	74.0	17.94731	0.881	-90.0	70.1	41.9	28.7	28.0	36.71110	5-6	
7	-0.391	19.544	383.25056	-90.5	-2.8	-94.4	77.4	17.74912	0.892	-95.4	70.0	42.2	27.8	27.8	35.74990	6-7	
8	-0.336	18.282	367.33374	-90.7	-2.4	-94.3	76.4	17.08946	0.936	-94.9	68.7	47.5	21.3	21.2	38.27689	7-8	
9	-0.285	17.117	356.40585	-91.0	-2.0	-94.1	75.4	16.51243	0.975	-94.5	67.6	52.8	14.8	14.7	35.30299	8-9	
10	0.811	17.160	358.34818	-113.4	-2.3	-92.7	72.0	16.67617	0.965	-90.0	67.6	52.6	16.1	14.9	33.21282	9-10	
11	1.933	17.208	364.15197	-130.3	-2.6	-91.2	68.6	16.86485	0.950	-85.4	67.7	52.8	19.6	14.2	44.80713	10-11	
12	2.950	16.133	365.63989	-154.7	-2.1	-90.1	64.2	16.50799	0.968	-81.9	66.7	58.4	20.4	6.8	34.15283	11-12	
13	3.007	17.261	373.16082	-141.0	-2.9	-89.8	65.4	17.06561	0.933	-81.2	67.8	53.3	23.9	13.0	34.15283	12-13	
14	3.075	18.476	385.25218	-131.1	-3.8	-89.3	66.5	17.69967	0.893	-80.5	69.0	48.1	28.5	19.3	36.81390	13-14	
15	3.157	19.800	402.69434	-124.0	-4.6	-88.8	67.6	18.42929	0.848	-79.6	70.4	42.9	33.8	25.7	40.11231	14-15	
16	3.258	21.261	426.47005	-118.8	-5.5	-88.2	68.7	19.28161	0.797	-78.6	71.8	37.9	39.6	32.1	44.29772	15-16	
17	2.042	21.134	415.23202	-110.7	-4.7	-90.3	71.7	18.99659	0.816	-84.0	71.6	37.0	37.0	33.9	37.03808	16-17	
18	0.779	21.021	407.82261	-100.9	-3.9	-92.5	75.0	18.73486	0.831	-90.0	71.5	36.7	35.2	34.7	38.41623	17-18	
19	-0.450	20.930	404.99274	-90.4	-3.2	-94.6	78.3	18.51335	0.842	-95.9	71.4	37.0	34.4	34.3	37.33470	18-19	
20	-1.656	20.858	406.49021	-79.9	-2.5	-96.7	81.7	18.32753	0.849	-101.7	71.3	37.9	34.8	32.9	36.58356	19-20	
21	-1.547	19.486	384.92163	-77.7	-2.3	-96.3	80.8	17.58097	0.898	-100.7	69.9	43.0	28.4	26.5	41.65494	20-21	
22	-1.450	18.236	369.07871	-74.3	-2.0	-95.9	79.8	16.93589	0.943	-99.8	68.7	48.2	22.1	20.2	37.98757	21-22	
23	-1.362	17.081	358.14244	-68.3	-1.7	-95.6	78.9	16.37112	0.982	-99.0	67.5	53.4	16.0	13.9	35.05303	22-23	
24	-1.281	16.006	351.44101	-55.7	-1.4	-95.3	75.2	15.60311	0.983	-98.3	66.4	58.5	10.4	7.8	32.65636	23-24	
25	-0.237	16.033	349.78022	-91.6	-1.6	-94.0	73.6	15.83620	0.990	-94.2	66.5	58.0	8.5	8.5	31.62969	24-25	
26	0.825	16.063	351.61456	-126.5	-1.7	-92.7	70.9	16.15287	1.000	-90.0	66.5	57.9	10.6	8.5	32.17646	25-26	
27	1.911	16.098	357.11115	-145.4	-1.9	-91.4	67.4	16.32539	0.985	-85.8	66.6	58.0	15.3	7.9	32.92106	26-27	
28	2.950	16.133	365.63989	-154.7	-2.1	-90.1	64.2	16.50799	0.968	-81.9	66.7	58.4	20.4	6.8	31.48214	27-28	

RA-VIII CAMERA FA

24

FEB. 20, 1965 9 HR 54 MIN 30 SEC 347 MS										TAB NO	24	ATLAS PHOTO NO	24	POD SEQUENCE NO			470
TRAJECTORY DATA				SEC TO IMPACT				ALT	LAT	LON	R	V	PTH	AZ			
				186.408				337.19858	-0.151	14.841	2072.699	2.473	-47.991	73.889			
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	0.850	18.510	359.92205	-107.0	-2.9	-92.6	73.0	16.82293	0.924	-90.0	69.0	47.3	22.5	21.6	0.	1-2	
3	1.955	17.409	354.65910	-130.0	-2.6	-91.1	68.7	16.42506	0.949	-85.4	67.9	52.8	19.8	14.4	47.22275	2-3	
4	1.982	18.575	365.99593	-120.8	-3.3	-90.9	69.7	17.02707	0.909	-85.0	69.1	47.5	25.1	20.9	35.29592	3-4	
5	2.018	19.843	382.40768	-114.8	-4.0	-90.6	70.7	17.71693	0.865	-84.6	70.4	42.2	31.0	27.4	38.39340	4-5	
6	0.840	19.757	375.82267	-103.3	-3.4	-92.6	74.0	17.48934	0.880	-90.0	70.2	41.9	28.8	28.2	35.78267	5-6	
7	-0.308	19.686	373.41679	-90.7	-2.8	-94.5	77.3	17.29353	0.891	-95.4	70.1	42.2	28.0	27.9	34.83892	6-7	
8	-0.255	18.455	357.80023	-90.9	-2.4	-94.3	76.3	16.64584	0.935	-94.9	68.9	47.5	21.4	21.4	37.33515	7-8	
9	-0.205	17.320	347.04125	-91.3	-2.0	-94.2	75.3	16.07852	0.974	-94.5	67.8	52.8	15.0	15.0	34.41730	8-9	
10	0.862	17.361	348.97738	-113.3	-2.3	-92.7	72.0	16.24008	0.964	-90.0	67.8	52.6	16.3	15.1	32.34484	9-10	
11	1.955	17.409	354.65910	-130.0	-2.6	-91.1	68.7	16.42506	0.949	-85.4	67.9	52.8	19.8	14.4	33.13004	10-11	
12	2.944	16.361	355.98810	-154.1	-2.1	-90.1	64.5	16.07167	0.968	-81.9	66.9	58.4	20.5	7.0	43.62784	11-12	
13	3.001	17.460	363.44577	-140.6	-3.0	-89.7	65.6	16.62087	0.932	-81.2	68.0	53.3	24.0	13.2	33.28720	12-13	
14	3.068	18.646	375.35305	-130.9	-3.8	-89.3	66.7	17.24454	0.892	-80.5	69.2	48.1	28.7	19.5	35.90415	13-14	
15	3.150	19.937	392.47195	-123.8	-4.7	-88.8	67.7	17.96121	0.847	-79.6	70.5	42.9	33.9	25.8	39.14111	14-15	
16	3.249	21.363	415.75980	-118.7	-5.5	-88.2	68.8	18.79722	0.796	-78.6	71.9	37.9	39.6	32.2	43.23964	15-16	
17	2.063	21.239	404.78819	-110.7	-4.7	-90.3	71.7	18.51878	0.815	-84.0	71.8	37.0	37.1	34.0	36.11204	16-17	
18	0.831	21.128	377.52519	-101.0	-4.0	-92.5	75.0	18.26177	0.830	-90.0	71.6	36.7	35.3	34.8	37.45584	17-18	
19	-0.367	21.038	394.70570	-90.6	-3.2	-94.7	78.2	18.04283	0.841	-95.9	71.5	37.0	34.6	34.0	36.39393	18-19	
20	-1.542	20.966	376.08261	-80.2	-2.6	-96.8	81.5	17.85760	0.848	-101.7	71.4	37.9	34.9	33.0	35.64724	19-20	
21	-1.435	19.629	374.97201	-78.0	-2.3	-96.3	80.5	17.12604	0.898	-100.7	70.0	43.6	28.5	26.7	40.63354	20-21	
22	-1.340	18.409	359.43430	-74.7	-2.0	-95.9	79.6	16.49299	0.942	-99.8	68.8	48.2	22.2	20.4	37.04480	21-22	
23	-1.253	17.284	348.67227	-68.9	-1.7	-95.6	78.7	15.93800	0.981	-99.0	67.7	53.4	16.1	14.1	34.16707	22-23	
24	-1.175	16.236	342.03040	-57.0	-1.4	-95.4	75.0	15.19104	0.983	-98.3	66.7	58.0	8.7	8.0	31.81196	23-24	
25	-0.159	16.263	340.46929	-92.2	-1.6	-94.0	73.6	15.42397	0.990	-94.2	66.7	58.0	8.7	8.7	30.78222	24-25	
26	0.475	16.293	342.27605	-126.0	-1.8	-92.7	70.9	15.72475	0.999	-90.0	66.8	57.9	10.8	8.7	31.32424	25-26	
27	1.933	16.327	347.67385	-144.8	-1.9	-91.3	67.6	15.89374	0.985	-85.8	66.8	58.0	15.4	8.2	32.05427	26-27	
28	2.944	16.361	355.98810	-154.1	-2.1	-90.1	64.5	16.07167	0.968	-81.9	66.9	58.4	20.5	7.0	30.65353	27-28	

RA-VIII CAMERA FA

25

FEB. 20, 1965 9 HR 54 MIN 35 SEC 467 MS

TAB NO 25

ATLAS PHOTO NO 25

POD SEQUENCE NO 472

TRAJECTORY DATA						SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
181.288						327.79260		-0.086	15.067	2063.293	2.477	-47.845	73.889			
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.901	18.682	350.36860	-107.0	-2.9	-92.6	73.0	16.37639	0.923	-90.0	69.2	47.3	22.6	21.7	0.	1-
3	1.976	17.610	345.15709	-129.7	-2.7	-91.1	68.8	15.98485	0.948	-85.4	68.1	52.8	20.0	14.6	45.97335	2- 3
4	2.004	18.746	356.31334	-120.6	-3.3	-90.9	69.8	16.57652	0.908	-85.0	69.3	47.5	25.3	21.0	34.39531	3- 4
5	2.039	19.982	372.40895	-114.7	-4.1	-90.6	70.8	17.25365	0.863	-84.6	70.5	42.2	31.1	27.6	37.43309	4- 5
6	0.892	19.898	365.96119	-103.4	-3.4	-92.6	73.9	17.03042	0.879	-90.0	70.4	41.9	29.0	28.3	34.85187	5- 6
7	-0.226	19.828	363.56529	-90.9	-2.9	-94.5	77.1	16.83714	0.890	-95.4	70.3	42.2	28.1	28.0	33.92597	6- 7
8	-0.174	18.628	348.25531	-91.2	-2.5	-94.3	76.2	16.20170	0.934	-94.9	69.1	47.5	21.6	21.6	36.38982	7- 8
9	-0.126	17.522	337.67150	-91.6	-2.0	-94.2	75.2	15.64438	0.974	-94.5	68.0	52.8	15.2	15.2	33.52926	8- 9
10	0.913	17.563	339.59909	-113.2	-2.3	-92.7	72.0	15.80364	0.963	-90.0	68.0	52.6	16.6	15.3	31.47622	9-10
11	1.976	17.610	345.15709	-129.7	-2.7	-91.1	68.8	15.98485	0.948	-85.4	68.1	52.8	20.0	14.6	32.24598	10-11
12	2.938	16.590	346.33337	-153.5	-2.2	-90.0	64.7	15.63524	0.967	-81.9	67.2	58.4	20.6	7.3	42.44833	11-12
13	2.994	17.660	353.72066	-140.2	-3.0	-89.6	65.8	16.17569	0.931	-81.3	68.2	53.3	24.2	13.4	32.41993	12-13
14	3.061	18.815	365.43679	-130.6	-3.8	-89.2	66.8	16.78862	0.891	-80.5	69.4	48.1	28.8	19.6	34.99129	13-14
15	3.141	20.074	382.22523	-123.7	-4.7	-88.7	67.9	17.49204	0.845	-79.6	70.6	42.9	34.1	26.0	38.16534	14-15
16	3.239	21.465	405.01170	-118.6	-5.5	-88.1	68.9	18.31138	0.795	-78.6	72.0	37.9	39.7	32.3	42.17560	15-16
17	2.083	21.344	394.31430	-110.6	-4.8	-90.3	71.8	18.03960	0.813	-84.0	71.9	37.0	37.2	34.1	35.18299	16-17
18	0.884	21.235	387.20070	-101.0	-4.0	-92.5	74.9	17.78743	0.829	-90.0	71.7	36.7	35.4	34.9	36.49241	17-18
19	-0.283	21.146	384.39448	-90.7	-3.3	-94.7	78.1	17.57122	0.840	-95.9	71.6	37.0	34.7	34.5	35.45065	18-19
20	-1.421	21.074	385.85481	-80.4	-2.6	-96.9	81.2	15.38680	0.841	-101.1	71.5	37.9	35.0	35.1	34.10930	19-20
21	-1.323	19.771	365.00828	-78.3	-2.4	-96.4	80.3	16.67049	0.897	-100.7	70.2	43.0	28.6	26.8	39.60786	20-21
22	-1.230	18.582	349.78177	-75.1	-2.1	-96.0	79.4	16.04973	0.941	-99.8	69.0	48.2	22.4	20.6	36.09887	21-22
23	-1.145	17.487	339.20010	-69.6	-1.8	-95.7	78.5	15.50480	0.981	-99.0	67.9	53.4	16.3	14.3	33.27909	22-23
24	-1.068	16.467	332.62411	-58.2	-1.4	-95.4	74.8	14.77915	0.984	-98.3	66.9	58.5	10.7	8.3	30.96673	23-24
25	-0.080	16.493	331.15968	-92.7	-1.6	-94.1	73.5	15.01156	0.991	-94.2	66.9	58.0	8.9	8.9	29.93547	24-25
26	0.925	16.522	332.97666	-125.5	-1.8	-92.7	71.0	15.29659	0.998	-90.0	67.0	57.9	11.0	9.0	30.47186	25-26
27	1.954	16.555	338.23427	-144.1	-2.0	-91.3	67.7	15.46199	0.984	-85.8	67.1	58.0	15.6	8.4	31.18711	26-27
28	2.938	16.590	346.33337	-153.5	-2.2	-90.0	64.7	15.63524	0.967	-81.9	67.2	58.4	20.6	7.3	29.82454	27-28

RA-VIII CAMERA FA

26

FEB. 20, 1965 9 HR 54 MIN 40 SEC 587 MS

TAB NO 26

ATLAS PHOTO NO 26

POD SEQUENCE NO 474

TRAJECTORY DATA				SEC TO IMPACT				ALT	LAT	LON	R	V	PTH	AZ		
176.168				318.39188				-0.020	15.295	2053.892	2.482	-47.698	73.889			
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.953	18.854	340.79949	-107.0	-2.9	-92.6	73.0	15.92913	0.922	-90.0	69.3	47.3	22.8	21.9	0.	1-
3	1.998	17.810	335.64468	-129.3	-2.7	-91.1	68.9	15.54417	0.947	-85.4	68.3	52.8	20.1	14.8	44.72185	2-3
4	2.026	18.916	346.61299	-120.5	-3.4	-90.8	69.9	16.12515	0.907	-85.0	69.4	47.5	25.4	21.2	33.49148	3-4
5	2.060	20.120	362.38488	-114.7	-4.1	-90.6	70.8	16.78919	0.862	-84.6	70.6	42.2	31.3	27.7	36.46803	4-5
6	0.944	20.038	356.07677	-103.4	-3.5	-92.6	73.9	16.57042	0.877	-90.0	70.5	41.9	29.1	28.4	33.91847	5-6
7	-0.144	19.969	353.69389	-91.1	-2.9	-94.5	77.0	16.37982	0.889	-95.4	70.4	42.2	28.3	28.2	33.01088	6-7
8	-0.093	18.800	338.69743	-91.4	-2.5	-94.4	76.1	15.75696	0.933	-94.9	69.2	47.5	21.8	21.7	35.44047	7-8
9	-0.046	17.724	328.29563	-92.0	-2.1	-94.2	75.1	15.20996	0.973	-94.5	68.2	52.8	15.4	15.4	32.63857	8-9
10	0.964	17.764	330.21219	-113.1	-2.4	-92.7	72.0	15.36681	0.962	-90.0	68.2	52.6	16.8	15.5	30.60683	9-10
11	1.998	17.810	335.64468	-129.3	-2.7	-91.1	68.9	15.54417	0.947	-85.4	68.3	52.8	20.1	14.8	31.36077	10-11
12	2.932	16.818	336.67488	-152.9	-2.2	-89.9	64.9	15.19867	0.966	-81.9	67.4	58.4	20.7	7.5	41.26845	11-12
13	2.988	17.859	343.98410	-139.8	-3.0	-89.6	66.0	15.73000	0.930	-81.3	68.4	53.3	24.3	13.6	31.55074	12-13
14	3.054	18.984	355.50139	-130.4	-3.8	-89.2	67.0	16.33185	0.889	-80.5	69.5	48.1	28.9	19.8	34.07493	13-14
15	3.133	20.211	371.95143	-123.6	-4.7	-88.7	68.0	17.02163	0.844	-79.6	70.8	42.9	34.2	26.1	37.18450	14-15
16	3.229	21.567	394.24001	-118.5	-5.5	-88.1	68.9	17.82395	0.794	-78.6	72.1	37.9	39.8	32.4	41.10479	15-16
17	2.104	21.448	383.80695	-110.6	-4.8	-90.3	71.8	17.55888	0.812	-84.0	72.0	37.0	37.3	34.2	34.25055	16-17
18	0.936	21.341	376.84541	-101.1	-4.0	-92.5	74.8	17.31168	0.828	-90.0	71.8	36.7	35.5	35.0	35.52558	17-18
19	-0.200	21.253	374.05611	-90.9	-3.3	-94.8	77.9	17.09838	0.839	-95.9	71.7	37.0	34.8	34.7	34.50442	18-19
20	-1.312	21.182	375.20814	-80.7	-2.7	-96.9	81.0	16.91499	0.847	-101.7	71.6	37.9	35.1	33.2	33.76959	19-20
21	-1.210	19.912	355.02840	-78.7	-2.4	-96.5	80.1	16.21422	0.896	-100.7	70.3	43.0	28.7	27.0	38.57728	20-21
22	-1.120	18.755	340.11976	-75.6	-2.1	-96.1	79.2	15.60606	0.940	-99.8	69.2	48.2	22.5	20.7	35.14930	21-22
23	-1.037	17.689	329.72502	-70.3	-1.8	-95.8	78.3	15.07147	0.980	-99.0	68.1	53.4	16.4	14.5	32.38882	22-23
24	-0.962	16.697	323.22164	-59.5	-1.4	-95.5	74.7	14.36736	0.984	-98.3	67.1	58.5	10.8	8.5	30.12054	23-24
25	-0.002	16.723	321.85084	-93.2	-1.6	-94.1	73.4	14.59892	0.991	-94.2	67.2	58.0	9.2	9.2	29.08902	24-25
26	0.975	16.752	323.65577	-125.1	-1.8	-92.7	71.0	14.50311	0.998	-90.0	67.2	57.9	11.3	9.2	29.61948	25-26
27	1.976	16.784	328.79163	-143.5	-2.0	-91.3	67.9	15.03011	0.983	-85.8	67.3	58.0	15.7	8.6	30.31951	26-27
28	2.932	16.818	336.67488	-152.9	-2.2	-89.9	64.9	15.19867	0.966	-81.9	67.4	58.4	20.7	7.5	28.99510	27-28

RA-VIII CAMERA FA

27

FEB. 20, 1965 9 HR 54 MIN 45 SEC 707 MS

TAB NO 27

ATLAS PHOTO NO 27

POD SEQUENCE NO 476

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				171.048		308.99644	0.047	15.525	2044.496	2.486	-47.550	73.890				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUM	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.004	19.025	331.21536	-107.1	-2.9	-92.6	72.9	15.48116	0.921	-90.0	69.5	47.3	23.0	22.1	0.	1-2
3	2.019	18.010	326.12223	-129.0	-2.7	-91.0	69.0	15.10303	0.946	-85.4	68.5	52.8	20.3	15.0	43.46829	2-3
4	2.047	19.087	336.89560	-120.3	-3.4	-90.8	69.9	15.67300	0.906	-85.0	69.6	47.5	25.6	21.4	32.58454	3-4
5	2.081	20.259	352.33661	-114.6	-4.1	-90.6	70.9	16.32362	0.861	-84.6	70.8	42.2	31.4	27.8	35.49841	4-5
6	0.995	20.178	344.17044	-109.5	-3.5	-92.6	73.9	16.10941	0.876	-90.0	70.7	41.9	29.3	28.6	32.98257	5-6
7	-0.062	20.110	343.80356	-91.3	-3.0	-94.6	76.9	15.92164	0.887	-95.4	70.6	42.2	28.4	28.3	32.09380	6-7
8	-0.012	18.973	329.12717	-91.6	-2.5	-94.4	76.0	15.31165	0.932	-94.9	69.4	47.5	21.9	21.9	34.48728	7-8
9	0.033	17.926	318.91385	-92.3	-2.1	-94.3	75.1	14.77527	0.972	-94.5	68.4	52.8	15.6	15.6	31.74538	8-9
10	1.014	17.965	320.81701	-113.0	-2.4	-92.7	72.0	14.92958	0.961	-90.0	68.4	52.6	17.0	15.7	29.73653	9-10
11	2.019	18.010	326.12223	-129.0	-2.7	-91.0	69.0	15.10303	0.946	-85.4	68.5	52.8	20.3	15.0	30.47446	10-11
12	2.927	17.046	327.01273	-152.3	-2.2	-89.8	65.2	14.76196	0.966	-81.9	67.6	58.4	20.8	7.8	40.08822	11-12
13	2.982	18.059	324.23657	-139.5	-3.0	-89.5	66.2	15.28384	0.929	-81.3	68.6	53.3	24.4	13.8	30.67969	12-13
14	3.047	19.153	345.54774	-130.2	-3.8	-89.1	67.1	15.87426	0.888	-80.5	69.7	48.1	29.0	20.0	33.15526	13-14
15	3.124	20.347	361.65185	-123.4	-4.7	-88.6	68.1	16.55006	0.843	-79.6	70.9	42.9	34.3	26.3	36.19881	14-15
16	3.218	21.667	383.42869	-118.5	-5.5	-88.1	69.0	17.33501	0.793	-78.6	72.2	37.9	39.9	32.5	40.02768	15-16
17	2.124	21.551	373.26783	-110.6	-4.8	-90.3	71.8	17.07671	0.811	-84.0	72.1	37.0	37.4	34.3	33.14946	16-17
18	0.988	21.446	366.46106	-101.2	-4.1	-92.6	74.8	16.83460	0.827	-90.0	71.9	36.7	35.6	35.1	34.55555	17-18
19	-0.116	21.360	363.69205	-91.1	-3.4	-94.8	77.8	16.62438	0.838	-95.9	71.8	37.0	34.9	34.8	33.55571	18-19
20	-1.198	21.290	364.73188	-80.9	-2.8	-97.0	80.8	16.44225	0.846	-101.7	71.7	37.9	35.2	33.4	32.82782	19-20
21	-1.098	20.054	345.03328	-79.0	-2.5	-96.5	79.9	15.75728	0.895	-100.7	70.5	43.0	28.9	27.1	37.54218	20-21
22	-1.009	18.928	330.44870	-76.0	-2.2	-96.2	79.0	15.16199	0.939	-99.8	69.4	48.2	22.6	20.9	34.19635	21-22
23	-0.929	17.892	320.24719	-70.9	-1.8	-95.9	78.1	14.63803	0.979	-99.0	68.3	53.4	16.6	14.8	31.49633	22-23
24	-0.856	16.928	313.82291	-60.6	-1.5	-95.6	74.5	13.95566	0.985	-98.3	67.4	58.5	10.9	8.7	29.27340	23-24
25	0.076	16.953	312.54269	-93.7	-1.6	-94.1	73.4	14.18602	0.992	-94.2	67.4	58.0	9.4	9.4	28.24334	24-25
26	1.026	16.981	314.33334	-124.7	-1.8	-92.7	71.0	14.44007	0.997	-90.0	67.5	57.9	11.5	9.4	28.76672	25-26
27	1.997	17.013	319.34600	-142.8	-2.0	-91.2	68.0	14.59811	0.982	-85.8	67.5	58.0	15.9	8.9	29.45149	26-27
28	2.927	17.046	327.01273	-152.3	-2.2	-89.8	65.2	14.76196	0.966	-81.9	67.6	58.4	20.8	7.8	28.16520	27-28

RA-VIII CAMERA FA

28

FEB. 20, 1965 9 HR 54 MIN 50 SEC 827 MS

TAB NO 28

ATLAS PHOTO NO 28

POD SEQUENCE NO 478

TRAJECTORY DATA					SEC TO IMPACT			ALT	LAT	LON	R	V	PTH	AZ		
					165.928			299.60661	0.114	15.758	2035.107	2.491	-47.400	73.891		
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUM	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.056	19.197	321.61657	-107.1	-3.0	-92.6	72.9	15.03251	0.919	-90.0	69.7	47.3	23.2	22.2	0.	1-2
3	2.041	18.211	316.59002	-128.7	-2.7	-91.0	69.1	14.66144	0.945	-85.4	68.7	52.8	20.5	15.2	42.21275	2-3
4	2.068	19.257	327.16158	-120.2	-3.4	-90.8	70.0	15.22007	0.904	-85.0	69.8	47.5	25.8	21.6	31.67453	3-4
5	2.102	20.397	342.26668	-114.5	-4.1	-90.5	70.9	15.85695	0.860	-84.6	70.9	42.2	31.5	28.0	34.52436	4-5
6	1.047	20.318	336.24282	-103.6	-3.5	-92.6	73.8	15.64741	0.875	-90.0	70.8	41.9	29.4	28.7	32.04423	5-6
7	0.020	20.251	333.89481	-91.5	-3.0	-94.6	76.7	15.46262	0.886	-95.4	70.7	42.2	28.5	28.5	31.17460	6-7
8	0.068	19.145	319.54487	-91.9	-2.6	-94.4	75.9	14.86578	0.930	-94.9	69.6	47.5	22.1	22.1	33.53035	7-8
9	0.113	18.128	309.52637	-92.6	-2.1	-94.3	75.0	14.34031	0.971	-94.5	68.6	52.8	15.8	15.8	30.84967	8-9
10	1.065	18.166	311.41372	-113.0	-2.4	-92.7	72.0	14.49198	0.960	-90.0	68.7	52.6	17.2	15.9	28.86565	9-10
11	2.041	18.211	316.59002	-128.7	-2.7	-91.0	69.1	14.66144	0.945	-85.4	68.7	52.8	20.5	15.2	29.58705	10-11
12	2.921	17.274	317.34705	-151.7	-2.2	-89.8	65.4	14.32512	0.965	-81.9	67.8	58.4	20.9	8.0	38.90760	11-12
13	2.975	18.258	324.47833	-139.1	-3.0	-89.4	66.3	14.83721	0.928	-81.3	68.8	53.3	24.6	14.0	29.80681	12-13
14	3.039	19.321	335.57622	-129.9	-3.8	-89.0	67.3	15.41586	0.887	-80.5	69.9	48.1	29.2	20.2	32.23228	13-14
15	3.116	20.483	351.32713	-123.3	-4.7	-88.6	68.2	16.07735	0.842	-79.6	71.0	42.9	34.4	26.4	35.20841	14-15
16	3.207	21.767	372.58461	-118.4	-5.5	-88.0	69.1	16.84459	0.792	-78.6	72.3	37.9	40.0	32.6	38.94441	15-16
17	2.145	21.654	362.69780	-110.6	-4.8	-90.2	71.8	16.59313	0.810	-84.0	72.2	37.0	37.5	34.4	32.37622	16-17
18	1.041	21.552	356.04844	-101.2	-4.1	-92.6	74.7	16.35622	0.826	-90.0	72.0	36.7	35.8	35.2	33.58236	17-18
19	-0.032	21.467	353.30304	-91.2	-3.5	-94.8	77.6	16.14926	0.837	-95.9	71.9	37.0	35.0	34.9	32.60430	18-19
20	-1.083	21.397	354.23883	-81.1	-2.8	-97.1	80.5	15.96860	0.845	-101.7	71.8	37.9	35.2	33.5	31.88441	19-20
21	-0.986	20.196	335.02339	-79.3	-2.5	-96.6	79.7	15.29969	0.894	-100.7	70.6	43.0	29.0	27.3	36.50269	20-21
22	-0.899	19.101	320.76900	-76.4	-2.2	-96.2	78.8	14.71754	0.938	-99.8	69.5	48.2	22.7	21.1	33.24006	21-22
23	-0.821	18.094	310.76682	-71.6	-1.8	-95.9	77.9	14.20448	0.978	-99.0	68.5	53.4	16.7	15.0	30.60170	22-23
24	-0.750	17.158	304.42796	-61.8	-1.5	-95.7	74.3	13.54405	0.985	-98.3	67.6	58.5	11.1	9.0	28.42532	23-24
25	0.155	17.183	303.23531	-94.2	-1.6	-94.2	73.3	13.77287	0.993	-94.2	67.6	58.0	9.6	9.6	27.39775	24-25
26	1.076	17.211	305.00950	-124.3	-1.8	-92.7	71.1	14.01172	0.996	-90.0	67.7	57.9	11.7	9.7	27.91404	25-26
27	2.019	17.242	309.89750	-142.2	-2.0	-91.2	68.1	14.16599	0.982	-85.8	67.8	58.0	16.1	9.1	28.58305	26-27
28	2.921	17.274	317.34705	-151.7	-2.2	-89.8	65.4	14.32512	0.965	-81.9	67.8	58.4	20.9	8.0	27.33487	27-28

RA-VIII CAMERA FA

29

FEB. 20, 1965 9 HR 54 MIN 55 SEC 947 MS										TAB NO	29	ATLAS PHOTO NO	29	POD SEQUENCE NO 480				
TRAJECTORY DATA										SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ
PHOTO DATA										160.808	290.22278	0.181	15.992	2025.723	2.495	-47.249	73.892	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT		
2	1.108	19.368	312.00711	-107.1	-3.0	-92.6	72.9	14.58336	0.918	-90.0	69.9	47.3	23.4	22.4	0.	1-2		
3	2.063	18.411	307.05426	-128.4	-2.7	-91.0	69.1	14.21970	0.944	-85.4	68.9	52.8	20.7	15.5	40.95558	2-3		
4	2.090	19.427	317.41796	-120.1	-3.4	-90.8	70.0	14.76670	0.903	-85.0	70.0	47.5	25.9	21.7	30.76230	3-4		
5	2.124	20.535	332.17715	-114.5	-4.1	-90.5	70.9	15.38956	0.858	-84.6	71.1	42.2	31.7	28.1	33.54688	4-5		
6	1.100	20.458	326.29849	-103.6	-3.6	-92.6	73.8	15.18463	0.874	-90.0	70.9	41.9	29.6	28.9	31.10465	5-6		
7	0.103	20.392	323.96923	-91.7	-3.1	-94.7	76.6	15.00281	0.885	-95.4	70.8	42.2	28.7	28.6	30.25410	6-7		
8	0.150	19.318	309.95173	-92.1	-2.6	-94.5	75.7	14.41941	0.929	-94.9	69.8	47.5	22.3	22.3	32.56995	7-8		
9	0.193	18.330	300.13407	-92.9	-2.1	-94.3	74.9	13.90513	0.970	-94.5	68.8	52.8	16.0	16.0	29.95166	8-9		
10	1.117	18.368	302.00581	-112.9	-2.4	-92.7	72.0	14.05416	0.958	-90.0	68.9	52.6	17.4	16.1	27.99440	9-10		
11	2.063	18.411	307.05426	-128.4	-2.7	-91.0	69.1	14.21970	0.944	-85.4	68.9	52.8	20.7	15.5	28.69950	10-11		
12	2.915	17.502	307.68616	-151.1	-2.2	-89.7	65.6	13.88851	0.964	-81.9	68.1	58.4	21.0	8.2	37.72753	11-12		
13	2.969	18.457	314.71850	-138.7	-3.0	-89.4	66.5	14.39052	0.927	-81.3	69.0	53.3	24.7	14.2	28.93300	12-13		
14	3.032	19.490	325.59700	-129.7	-3.8	-89.0	67.4	14.95712	0.886	-80.5	70.1	48.1	29.3	20.4	31.30718	13-14		
15	3.107	20.619	340.98877	-123.2	-4.7	-88.5	68.3	15.60403	0.841	-79.6	71.2	42.9	34.5	26.6	34.21474	14-15		
16	3.197	21.867	361.72113	-118.3	-5.6	-88.0	69.2	16.35331	0.791	-78.6	72.4	37.9	40.1	32.8	37.85696	15-16		
17	2.165	21.757	352.10618	-110.6	-4.8	-90.2	71.8	16.10857	0.809	-84.0	72.3	37.0	37.7	34.5	31.43655	16-17		
18	1.093	21.657	345.61311	-101.3	-4.2	-92.6	74.6	15.87680	0.824	-90.0	72.1	36.7	35.9	35.3	32.60746	17-18		
19	0.252	21.573	342.89119	-91.4	-3.5	-94.0	77.5	15.47109	0.834	-95.9	72.0	37.0	35.1	35.0	31.65073	18-19		
20	-0.967	21.504	343.72373	-81.4	-2.9	-97.1	80.3	15.49397	0.844	-101.7	71.9	37.9	35.3	33.6	30.93949	19-20		
21	-0.873	20.337	324.99741	-79.6	-2.6	-96.7	79.5	14.84138	0.893	-100.7	70.8	43.0	29.1	27.5	35.45879	20-21		
22	-0.789	19.274	311.07909	-76.8	-2.2	-96.3	78.6	14.27264	0.937	-99.8	69.7	48.2	22.9	21.3	32.28037	21-22		
23	-0.712	18.297	301.28224	-72.2	-1.9	-96.0	77.8	13.77076	0.978	-99.0	68.7	53.4	16.9	15.2	29.70477	22-23		
24	-0.643	17.389	295.03499	-63.0	-1.5	-95.7	74.1	13.13232	0.986	-98.3	67.8	58.5	11.2	9.2	27.57615	23-24		
25	0.233	17.413	293.92931	-94.6	-1.7	-94.2	73.2	13.35951	0.993	-94.2	67.9	58.0	9.8	9.8	26.55258	24-25		
26	1.126	17.440	295.68728	-123.9	-1.8	-92.7	71.1	13.58343	0.995	-90.0	67.9	57.9	11.9	9.9	27.06157	25-26		
27	2.041	17.471	300.45177	-141.6	-2.0	-91.1	68.2	13.73399	0.981	-85.8	68.0	58.0	16.2	9.3	27.71502	26-27		
28	2.915	17.502	307.68616	-151.1	-2.2	-89.7	65.6	13.88851	0.964	-81.9	68.1	58.4	21.0	8.2	26.50541	27-28		

RA-VIII CAMERA FA

30

FEB. 20, 1965 9 HR 55 MIN 1 SEC 67 MS										TAB NO	30	ATLAS PHOTO NO 30			POD SEQUENCE NO 482			
TRAJECTORY DATA										SEC TO IMPACT 155.688		ALT 280.84482	LAT 0.250	LON 16.229	R 2016.345	V 2.500	PTH -47.097	AZ 73.893
PHOTO DATA																		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT		
2	1.159	19.540	302.38276	-107.1	-3.0	-92.6	72.9	14.13351	0.917	-90.0	70.0	47.3	23.5	22.6	0.	1-2		
3	2.085	18.612	297.50891	-128.2	-2.7	-90.9	69.2	13.77751	0.943	-85.4	69.1	52.8	20.8	15.7	39.69633	2-3		
4	2.112	19.597	307.65789	-119.9	-3.4	-90.7	70.1	14.31257	0.902	-85.0	70.1	47.5	26.1	21.9	29.84696	3-4		
5	2.145	20.673	322.06624	-114.4	-4.2	-90.5	70.9	14.92110	0.857	-84.6	71.2	42.2	31.8	28.3	32.56496	4-5		
6	1.152	20.597	316.33260	-103.7	-3.6	-92.6	73.7	14.72085	0.872	-90.0	71.1	41.9	29.7	29.0	30.16272	5-6		
7	0.186	20.533	314.02460	-91.9	-3.1	-94.7	76.5	14.54214	0.884	-95.4	71.0	42.2	28.8	28.8	29.33161	6-7		
8	0.231	19.490	300.34594	-92.4	-2.6	-94.5	75.6	13.97246	0.928	-94.9	69.9	47.5	22.5	22.4	31.60571	7-8		
9	0.273	18.532	290.73550	-93.2	-2.2	-94.4	74.8	13.46967	0.969	-94.5	69.0	52.8	16.2	16.2	29.05103	8-9		
10	1.168	18.569	292.58962	-112.8	-2.4	-92.7	72.0	13.61596	0.957	-90.0	69.1	52.6	17.6	16.3	27.12242	9-10		
11	2.085	18.612	297.50891	-128.2	-2.7	-90.9	69.2	13.77751	0.943	-85.4	69.1	52.8	20.8	15.7	27.81092	10-11		
12	2.910	17.731	298.02230	-150.6	-2.2	-89.6	65.8	13.45179	0.963	-81.9	68.3	58.4	21.1	8.5	36.54707	11-12		
13	2.963	18.657	304.94853	-138.4	-3.0	-89.3	66.7	13.94339	0.926	-81.3	69.2	53.3	24.8	14.4	28.05732	12-13		
14	3.025	19.659	315.60058	-129.5	-3.9	-88.9	67.5	14.49761	0.885	-80.5	70.2	48.1	29.4	20.5	30.37880	13-14		
15	3.099	20.755	330.62600	-123.0	-4.7	-88.5	68.4	15.12960	0.840	-79.6	71.3	42.9	34.6	26.7	33.21643	14-15		
16	3.187	21.967	350.82584	-118.2	-5.6	-87.9	69.2	15.86060	0.790	-78.6	72.5	37.9	40.2	32.9	36.76352	15-16		
17	2.186	21.860	341.48398	-110.6	-4.9	-90.2	71.8	15.62260	0.808	-84.0	72.4	37.0	37.8	34.6	30.49402	16-17		
18	1.146	21.761	335.14929	-101.4	-4.2	-92.6	74.6	15.39607	0.823	-90.0	72.2	36.7	36.0	35.4	31.62953	17-18		
19	0.136	21.679	332.45373	-91.5	-3.6	-94.9	77.3	15.19576	0.835	-95.9	72.1	37.0	35.2	35.1	30.69475	18-19		
20	-0.852	21.611	333.18667	-81.6	-3.0	-97.2	80.1	15.01839	0.843	-101.8	72.0	37.9	35.4	33.7	29.99239	19-20		
21	-0.760	20.478	314.95561	-79.9	-2.6	-96.8	79.2	14.38237	0.892	-100.7	70.9	43.0	29.2	27.6	34.41033	20-21		
22	-0.678	19.447	301.37952	-77.3	-2.3	-96.4	78.4	13.82730	0.936	-99.8	69.9	48.2	23.0	21.5	31.31721	21-22		
23	-0.604	18.499	291.79419	-72.9	-1.9	-96.1	77.6	13.35689	0.977	-99.0	68.9	53.4	17.0	15.4	28.80554	22-23		
24	-0.536	17.620	285.64486	-64.1	-1.5	-95.8	73.9	12.72058	0.986	-98.4	68.1	58.5	11.3	9.5	26.72589	23-24		
25	0.312	17.643	284.62350	-95.1	-1.7	-94.2	73.1	12.94582	0.994	-94.2	68.1	58.0	10.1	10.1	25.70763	24-25		
26	1.177	17.670	286.36339	-123.5	-1.9	-92.7	71.1	13.15507	0.995	-90.0	68.2	57.9	12.2	10.1	26.20896	25-26		
27	2.063	17.700	291.00332	-141.0	-2.0	-91.1	68.4	13.30189	0.980	-85.8	68.2	58.0	16.4	9.6	26.84664	26-27		
28	2.910	17.731	298.02230	-150.6	-2.2	-89.6	65.8	13.45179	0.963	-81.9	68.3	58.4	21.1	8.5	25.67565	27-28		

RA-VIII CAMERA FA

31

FEB. 20, 1965 9 HR 55 MIN 6 SEC 187 MS

TAB NO 31

ATLAS PHOTO NO 31

POD SEQUENCE NO 484

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
					150.568		271.47305	0.319	16.468	2006.973	2.504	-46.944	73.895			
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.211	19.711	292.74235	-107.2	-3.1	-92.6	72.8	13.68292	0.916	-90.0	70.2	47.3	23.7	22.8	0.	1- 2
3	2.107	18.812	287.95227	-127.9	-2.8	-90.9	69.3	13.33482	0.942	-85.4	69.3	52.8	21.0	15.9	38.43486	2- 3
4	2.134	19.768	297.87951	-119.8	-3.5	-90.7	70.1	13.85759	0.901	-85.0	70.3	47.5	26.3	22.1	28.92828	3- 4
5	2.166	20.810	311.92977	-114.4	-4.2	-90.5	71.0	14.45145	0.856	-84.6	71.3	42.2	32.0	28.4	31.57827	4- 5
6	1.204	20.736	306.34373	-103.7	-3.6	-92.6	73.6	14.25600	0.871	-90.0	71.2	41.9	29.9	29.1	29.21813	5- 6
7	0.269	20.673	304.06023	-92.1	-3.2	-94.7	76.3	14.08055	0.883	-95.4	71.1	42.2	28.9	28.9	28.40699	6- 7
8	0.313	19.662	290.72698	-92.6	-2.7	-94.6	75.5	13.52490	0.927	-94.9	70.1	47.5	22.6	22.6	30.63747	7- 8
9	0.353	18.734	281.33022	-93.5	-2.2	-94.4	74.7	13.03390	0.968	-94.5	69.2	52.8	16.4	16.4	28.14771	8- 9
10	1.219	18.771	283.16409	-112.8	-2.5	-92.7	72.0	13.17733	0.956	-90.0	69.3	52.6	17.8	16.5	26.24958	9-10
11	2.107	18.812	287.95227	-127.9	-2.8	-90.9	69.3	13.33482	0.942	-85.4	69.3	52.8	21.0	15.9	26.92109	10-11
12	2.905	17.959	288.35329	-150.0	-2.3	-89.5	66.0	13.01487	0.963	-81.9	68.5	58.4	21.2	8.7	35.36597	11-12
13	2.957	18.856	295.16611	-138.0	-3.1	-89.2	66.8	13.49571	0.925	-81.3	69.4	53.3	25.0	14.6	27.17951	12-13
14	3.018	19.827	305.58436	-129.3	-3.9	-88.9	67.6	14.03721	0.884	-80.5	70.4	48.1	29.6	20.7	29.44681	13-14
15	3.090	20.890	320.23589	-122.9	-4.7	-88.4	68.5	14.65394	0.839	-79.6	71.5	42.9	34.7	26.9	32.21304	14-15
16	3.176	22.066	339.89530	-118.2	-5.6	-87.9	69.3	15.36631	0.789	-78.6	72.6	37.9	40.2	33.0	35.66354	15-16
17	2.206	21.962	330.82867	-110.6	-4.9	-90.2	71.8	15.13512	0.807	-84.0	72.5	37.0	37.9	34.7	29.54813	16-17
18	1.199	21.866	324.65536	-101.4	-4.2	-92.6	74.5	14.91396	0.822	-90.0	72.4	36.7	36.1	35.5	30.64822	17-18
19	0.220	21.785	321.98982	-91.7	-3.6	-95.0	77.2	14.71724	0.834	-95.9	72.2	37.0	35.3	35.2	29.73596	18-19
20	-0.736	21.717	322.62767	-81.9	-3.0	-97.3	79.8	14.54185	0.842	-101.8	72.2	37.9	35.5	33.8	29.04350	19-20
21	-0.647	20.619	304.89806	-80.2	-2.7	-96.8	79.0	13.92266	0.891	-100.7	71.1	43.0	29.3	27.8	33.35729	20-21
22	-0.567	19.620	291.67038	-77.7	-2.3	-96.4	78.2	13.38155	0.935	-99.8	70.1	48.2	23.1	21.7	27.90399	21-22
23	-0.495	18.702	282.30281	-73.5	-1.9	-96.1	77.4	12.90288	0.976	-99.0	69.1	53.4	17.2	15.6	27.90399	22-23
24	-0.429	17.850	276.25780	-65.2	-1.5	-95.9	73.7	12.30863	0.987	-98.4	68.3	58.5	11.5	9.7	25.87448	23-24
25	0.391	17.874	275.31755	-95.5	-1.7	-94.3	73.1	12.53177	0.995	-94.2	68.3	58.0	10.3	10.3	24.86317	24-25
26	1.228	17.900	277.03696	-123.2	-1.9	-92.7	71.2	12.72660	0.994	-90.0	68.4	57.9	12.4	10.4	25.35613	25-26
27	2.085	17.929	281.55063	-140.5	-2.1	-91.1	68.5	12.86960	0.979	-85.8	68.5	58.0	16.6	9.8	25.97769	26-27
28	2.905	17.959	288.35329	-150.0	-2.3	-89.5	66.0	13.01487	0.963	-81.9	68.5	58.4	21.2	8.7	24.84528	27-28

RA-VIII CAMERA FA

32

FEB. 20, 1965 9 HR 55 MIN 11 SEC 307 MS

TAB NO 32

ATLAS PHOTO NO 32

POD SEQUENCE NO 486

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
					145.448		262.10791	0.388	16.709	1997.608	2.509	-46.789	73.897			
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.263	19.883	283.08564	-107.2	-3.1	-92.6	72.8	13.23156	0.914	-90.0	70.4	47.3	23.9	22.9	0.	1- 2
3	2.129	19.013	278.38418	-127.6	-2.8	-90.9	69.4	12.89159	0.940	-85.4	69.5	52.8	21.2	16.1	37.17110	2- 3
4	2.155	19.937	288.08260	-119.7	-3.5	-90.7	70.2	13.40175	0.899	-85.0	70.5	47.5	26.4	22.3	28.00617	3- 4
5	2.187	20.947	301.76748	-114.3	-4.2	-90.4	71.0	13.98060	0.855	-84.6	71.5	42.2	32.1	28.5	30.58677	4- 5
6	1.256	20.875	296.33165	-103.8	-3.7	-92.6	73.6	13.79007	0.870	-90.0	71.4	41.9	30.0	29.3	28.27086	5- 6
7	0.351	20.813	294.07588	-92.2	-3.2	-94.8	76.2	13.61805	0.881	-95.4	71.3	42.2	29.1	29.1	27.48020	6- 7
8	0.394	19.835	281.09462	-92.8	-2.7	-94.6	75.4	13.07672	0.926	-94.9	70.3	47.5	22.8	22.8	29.66522	7- 8
9	0.434	18.936	271.91808	-93.8	-2.2	-94.4	74.6	12.59781	0.967	-94.5	69.4	52.8	16.6	16.6	27.24161	8- 9
10	1.271	18.972	273.72908	-112.7	-2.5	-92.7	72.0	12.73825	0.955	-90.0	69.5	52.6	18.0	16.7	25.37585	9-10
11	2.129	19.013	278.38418	-127.6	-2.8	-90.9	69.4	12.89159	0.940	-85.4	69.5	52.8	21.2	16.1	26.02999	10-11
12	2.899	18.187	278.67903	-149.4	-2.3	-89.5	66.1	12.57773	0.962	-81.9	68.8	58.4	21.4	9.0	34.18416	11-12
13	2.951	19.055	285.37107	-137.7	-3.1	-89.2	67.0	13.04748	0.924	-81.3	69.6	53.3	25.1	14.9	26.29949	12-13
14	3.011	19.996	295.54809	-129.1	-3.9	-88.8	67.8	13.57590	0.883	-80.5	70.6	48.1	29.7	20.9	31.20448	13-14
15	3.081	21.025	309.81812	-122.8	-4.7	-88.4	68.6	14.17702	0.837	-79.6	71.6	42.9	34.9	27.0	34.55697	14-15
16	3.165	22.164	328.92914	-118.1	-5.6	-87.8	69.4	14.87041	0.788	-78.6	72.7	37.9	40.3	33.1	34.55697	15-16
17	2.226	22.063	320.13990	-110.5	-4.9	-90.2	71.8	14.64611	0.805	-84.0	72.6	37.0	38.0	34.8	28.59881	16-17
18	1.251	21.969	314.13098	-101.5	-4.3	-92.6	74.4	14.43045	0.821	-90.0	72.5	36.7	36.2	35.6	29.66348	17-18
19	0.304	21.890	311.49917	-91.9	-3.7	-95.0	77.0	14.23751	0.833	-95.9	72.4	37.0	35.4	35.3	28.77435	18-19
20	-0.621	21.823	312.04644	-82.1	-3.1	-97.4	79.6	14.06434	0.842	-101.8	72.3	37.9	35.6	34.0	28.09267	19-20
21	-0.534	20.760	294.82455	-80.5	-2.8	-96.9	78.8	13.46225	0.890	-100.7	71.2	43.0	29.4	27.9	32.29963	20-21
22	-0.457	19.793	281.95152	-78.1	-2.4	-96.5	78.0	12.93537	0.934	-99.8	70.2	48.2	23.3	21.8	29.38029	21-22
23	-0.386	18.905	272.80794	-74.1	-2.0	-96.2	77.2	12.46672	0.975	-99.0	69.3	53.4	17.3	15.8	27.00002	22-23
24	-0.322	18.081	266.87367	-66.3	-1.6	-95.9	73.6	11.89703	0.987	-98.4	68.5	58.5	11.6	9.9	25.02191	23-24
25	0.470	18.104	266.01135	-95.9	-1.7	-94.3	73.0	12.11733	0.996	-94.2	68.6	58.0	10.6	10.5	24.01890	24-25
26	1.279	18.130	267.70786	-122.9	-1.9	-92.7	71.2	12.29800	0.993	-90.0	68.6	57.9	12.6	10.6	24.50306	25-26
27	2.107	18.158	272.09356	-139.9	-2.1	-91.0	68.6	12.43712	0.978	-85.8	68.7	58.0	16.7	10.0	25.10815	26-27
28	2.899	18.187	278.67903	-149.4	-2.3	-89.5	66.1	12.57773	0.962	-81.9	68.8	58.4	21.4	9.0	24.01427	27-28

RA-VIII CAMERA FA

33

FEB. 20, 1965 9 HR 55 MIN 16 SEC 427 M5

TAB NO 33

ATLAS PHOTO NO 33

POD SEQUENCE NO 488

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
PHOTO DATA					140.328		252.74944	0.459	16.953	1988.249	2.513	-46.633	73.899		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.315	20.054	273.41206	-107.2	-3.1	-92.6	72.8	12.77941	0.913	-90.0	70.6	47.3	24.1	23.1	0.
3	2.151	19.213	268.80412	-127.3	-2.8	-90.8	69.5	12.44782	0.939	-85.4	69.7	52.8	21.4	16.3	35.90500
4	2.176	20.107	278.26655	-119.6	-3.5	-90.6	70.2	12.94503	0.898	-85.0	70.6	47.5	26.6	22.4	27.08056
5	2.208	21.084	291.57867	-114.3	-4.2	-90.4	71.0	13.50853	0.853	-84.6	71.6	42.2	32.2	28.7	29.59030
6	1.308	21.014	286.29570	-103.9	-3.7	-92.6	73.5	13.32302	0.868	-90.0	71.5	41.9	30.2	29.4	27.32081
7	0.434	20.953	284.07097	-92.4	-3.3	-94.8	76.1	13.15461	0.880	-95.4	71.4	42.2	29.2	29.2	26.55115
8	0.475	20.007	271.44834	-93.1	-2.8	-94.6	75.3	12.62789	0.925	-94.9	70.5	47.5	23.0	23.0	28.68882
9	0.513	19.138	262.49860	-94.1	-2.3	-94.5	74.5	12.16138	0.966	-94.5	69.6	52.8	16.8	16.8	26.33264
10	1.322	19.173	264.28404	-112.7	-2.5	-92.7	72.0	12.29871	0.954	-90.0	69.7	52.6	18.2	16.9	24.50119
11	2.151	19.213	268.80412	-127.3	-2.8	-90.8	69.5	12.44782	0.939	-85.4	69.7	52.8	21.4	16.3	25.13754
12	2.894	18.416	268.99898	-148.9	-2.3	-89.4	66.3	12.14037	0.961	-81.9	69.0	58.4	21.5	9.2	33.00158
13	2.944	19.254	275.56283	-137.3	-3.1	-89.1	67.1	12.59866	0.923	-81.3	69.8	53.3	25.2	15.1	25.17175
14	3.003	20.164	285.49120	-128.9	-3.9	-88.7	67.9	13.11366	0.882	-80.5	70.7	48.1	29.8	21.1	27.57172
15	3.072	21.160	299.37202	-122.7	-4.7	-88.3	68.7	13.69882	0.836	-79.6	71.7	42.9	35.0	27.1	30.19065
16	3.153	22.262	317.92663	-118.0	-5.6	-87.8	69.4	14.37288	0.787	-78.6	72.8	37.9	40.4	33.2	33.44372
17	2.246	22.164	309.41695	-110.5	-4.9	-90.1	71.8	14.15554	0.804	-84.0	72.7	37.0	38.1	34.9	27.64604
18	1.303	22.072	303.57546	-101.6	-4.3	-92.6	74.3	13.94552	0.820	-90.0	72.6	36.7	36.3	35.7	28.67522
19	0.389	21.995	300.98112	-92.0	-3.7	-95.0	76.9	13.75654	0.832	-95.9	72.5	37.0	35.5	35.4	27.80982
20	-0.505	21.929	301.44234	-82.4	-3.2	-97.4	79.4	13.58544	0.841	-101.8	72.4	37.9	35.6	34.1	27.11973
21	-0.421	20.901	284.73448	-80.8	-2.8	-97.0	78.6	13.00112	0.889	-100.7	71.3	43.0	29.5	28.1	31.23721
22	-0.346	19.966	272.22239	-78.5	-2.4	-96.6	77.8	12.48873	0.933	-99.8	70.4	48.2	23.4	22.0	28.40639
23	-0.278	19.107	263.30909	-74.7	-2.0	-96.3	77.0	12.03439	0.974	-99.0	69.6	53.4	17.5	16.0	26.09359
24	-0.216	18.312	257.49200	-67.3	-1.6	-96.0	73.4	11.48514	0.988	-98.4	68.8	58.5	11.8	10.2	24.16807
25	0.549	18.334	256.70442	-96.3	-1.8	-94.3	72.9	11.70243	0.996	-94.2	68.8	58.0	10.8	10.8	23.17501
26	1.329	18.359	258.37560	-122.5	-1.9	-92.7	71.2	11.86926	0.992	-90.0	68.9	57.9	12.8	10.8	23.64968
27	2.129	18.387	262.63162	-139.4	-2.1	-91.0	68.7	12.00443	0.977	-85.8	68.9	58.0	16.9	10.3	24.23797
28	2.894	18.416	268.99898	-148.9	-2.3	-89.4	66.3	12.14037	0.961	-81.9	69.0	58.4	21.5	9.2	23.18260

RA-VIII CAMERA FA

34

FEB. 20, 1965 9 HR 55 MIN 21 SEC 547 M5

TAB NO 34

ATLAS PHOTO NO 34

POD SEQUENCE NO 490

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA				135.208		243.39809	0.530	17.198	1978.898	2.518	-46.476	73.902			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.366	20.225	263.72139	-107.3	-3.2	-92.6	72.7	12.32646	0.912	-90.0	70.7	47.3	24.3	23.3	0.
3	2.172	19.413	259.21183	-127.1	-2.8	-90.8	69.5	12.00350	0.938	-85.4	69.9	52.8	21.5	16.5	34.63648
4	2.197	20.277	268.43107	-119.4	-3.5	-90.6	70.3	12.48741	0.897	-85.0	70.8	47.5	26.7	22.6	26.15138
5	2.228	21.221	281.36305	-114.2	-4.2	-90.4	71.0	13.03522	0.852	-84.6	71.8	42.2	32.4	28.8	28.58880
6	1.360	21.152	276.23557	-103.9	-3.8	-92.6	73.5	12.85486	0.867	-90.0	71.6	41.9	30.3	29.6	26.36797
7	0.516	21.093	274.04517	-92.6	-3.3	-94.9	75.9	12.69021	0.879	-95.4	71.6	42.2	29.4	29.3	25.61984
8	0.556	20.179	261.78788	-93.3	-2.8	-94.7	75.2	12.17842	0.924	-94.9	70.7	47.5	23.1	23.1	27.70823
9	0.593	19.340	253.07151	-94.4	-2.3	-94.5	74.4	11.72460	0.965	-94.5	69.8	52.8	17.0	17.0	25.42077
10	1.373	19.375	254.82877	-112.6	-2.5	-92.7	72.0	11.85869	0.953	-90.0	69.9	52.6	18.4	17.1	23.62557
11	2.172	19.413	259.21183	-127.1	-2.8	-90.8	69.5	12.00350	0.938	-85.4	69.9	52.8	21.5	16.5	24.24376
12	2.888	18.644	259.31296	-148.3	-2.3	-89.3	66.5	11.70277	0.960	-81.9	69.2	58.4	21.6	9.4	31.81817
13	2.938	19.453	265.74116	-137.0	-3.1	-89.0	67.3	12.14926	0.922	-81.3	70.0	53.3	25.4	15.3	24.53246
14	2.995	20.332	275.41335	-128.7	-3.9	-88.7	68.0	12.65048	0.880	-80.5	70.9	48.1	30.0	21.3	26.62841
15	3.062	21.294	288.89725	-122.5	-4.7	-88.3	68.8	13.21932	0.835	-79.6	71.9	42.9	35.1	27.3	29.17149
16	3.141	22.360	306.88743	-118.0	-5.6	-87.8	69.5	13.87370	0.786	-78.6	72.9	37.9	40.5	33.3	32.32372
17	2.265	22.264	298.65945	-110.5	-5.0	-90.1	71.8	13.66339	0.803	-84.0	72.8	37.0	38.2	35.0	26.68977
18	1.356	22.175	292.98846	-101.7	-4.4	-92.6	74.3	13.45914	0.819	-90.0	72.7	36.7	36.4	35.8	27.68343
19	0.473	22.099	290.43533	-92.2	-3.8	-95.1	76.7	13.27432	0.831	-95.9	72.6	37.0	35.6	35.5	26.84234
20	-0.389	22.034	290.81507	-82.6	-3.3	-97.5	79.2	13.10632	0.840	-101.8	72.5	37.9	35.7	34.2	26.18482
21	-0.308	21.041	274.62758	-81.1	-2.9	-97.0	78.4	12.53923	0.888	-100.7	71.5	43.0	29.6	28.2	27.42877
22	-0.235	20.139	262.48275	-78.9	-2.5	-96.7	77.6	12.04164	0.932	-99.8	70.6	48.2	23.6	22.2	25.18460
23	-0.170	19.310	253.80609	-75.3	-2.1	-96.3	76.8	11.59988	0.974	-99.0	69.8	53.4	17.6	16.2	23.31295
24	-0.109	18.543	248.11260	-68.3	-1.6	-96.1	73.2	11.07312	0.988	-98.4	69.0	58.5	12.0	10.4	22.79599
25	0.628	18.565	247.39655	-96.7	-1.8	-94.4	72.9	11.28707	0.997	-94.2	69.0	58.0	11.0	11.0	23.31336
26	1.380	18.589	249.03996	-122.2	-1.9	-92.7	71.2	11.44037	0.991	-90.0	69.1	57.9	13.1	11.0	22.79599
27	2.151	18.616	253.16461	-138.8	-2.1	-90.9	68.8	11.57152	0.976	-85.8	69.1	58.0	17.1	10.5	23.36714
28	2.888	18.644	259.31296	-148.3	-2.3	-89.3	66.5	11.70277	0.960	-81.9	69.2	58.4	21.6	9.4	22.35024

RA-VIII CAMERA FA

35

FEB. 20, 1965 9 HR 55 MIN 26 SEC 607 MS

TAB NO 35

ATLAS PHOTO NO 35

POD SEQUENCE NO 492

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				130.088		234.05386		0.601		17.447		1969.554		2.523		-46.317		73.905	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	1.417	20.395	254.01289	-107.3	-3.2	-92.7	72.7	11.87268	0.910	-90.0	70.9	47.3	24.4	23.5	0.	1-2			
3	2.193	19.613	249.60683	-126.8	-2.8	-90.7	69.6	11.55859	0.937	-85.4	70.1	52.8	21.7	16.7	33.36545	2-3			
4	2.218	20.446	258.57559	-119.3	-3.6	-90.6	70.3	12.02886	0.896	-85.0	71.0	47.5	26.9	22.8	25.21848	3-4			
5	2.248	21.357	271.11988	-114.2	-4.3	-90.4	71.1	12.56064	0.851	-84.6	71.9	42.2	32.5	29.0	27.58216	4-5			
6	1.412	21.290	266.15041	-104.0	-3.8	-92.6	73.4	12.38553	0.866	-90.0	71.8	41.9	30.5	29.7	25.41229	5-6			
7	0.599	21.232	265.97757	-92.8	-3.4	-94.9	75.8	12.22481	0.878	-75.4	71.7	42.2	27.5	29.5	24.68615	6-7			
8	0.638	20.351	252.11249	-93.5	-2.8	-94.7	75.1	11.72825	0.922	-94.9	70.8	47.5	23.3	23.3	26.72326	7-8			
9	0.673	19.542	243.63620	-94.7	-2.3	-94.5	74.3	11.28744	0.964	-94.5	70.0	52.8	17.2	17.2	24.50587	8-9			
10	1.423	19.576	245.36268	-112.6	-2.6	-92.7	72.0	11.41817	0.952	-90.0	70.1	52.6	18.6	17.3	22.74893	9-10			
11	2.193	19.613	249.60683	-126.8	-2.8	-90.7	69.6	11.55859	0.937	-85.4	70.1	52.8	21.7	16.7	33.36545	10-11			
12	2.882	18.872	249.62062	-147.8	-2.3	-89.2	66.7	11.26491	0.960	-81.9	69.4	58.4	21.7	9.7	30.63385	11-12			
13	2.931	19.652	255.90563	-136.6	-3.1	-89.0	67.4	11.69925	0.921	-81.3	70.2	53.3	25.5	15.5	23.64529	12-13			
14	2.987	20.499	265.31408	-128.5	-3.9	-88.6	68.1	12.18632	0.879	-80.5	71.1	48.1	30.1	21.4	25.68116	13-14			
15	3.052	21.428	278.39320	-122.4	-4.7	-88.2	68.9	12.73849	0.834	-79.6	72.0	42.9	35.2	27.4	28.14689	14-15			
16	3.129	22.456	295.81071	-117.9	-5.6	-87.7	69.6	13.37283	0.785	-78.6	73.0	37.9	40.6	33.4	31.19677	15-16			
17	2.284	22.364	287.86651	-110.5	-5.0	-90.1	71.8	13.16962	0.802	-84.0	72.9	37.0	38.3	35.1	25.72995	16-17			
18	1.407	22.277	282.36894	-101.7	-4.4	-92.6	74.2	12.97127	0.817	-90.0	72.8	36.7	36.5	35.9	26.68804	17-18			
19	0.557	22.203	279.86074	-92.3	-3.9	-95.1	76.6	12.79079	0.830	-95.9	72.7	37.0	35.7	35.6	25.87180	18-19			
20	-0.274	22.139	280.16348	-82.8	-3.3	-97.6	78.9	12.62575	0.839	-101.8	72.6	37.9	35.8	34.3	25.22776	19-20			
21	-0.195	21.182	264.50287	-81.4	-2.9	-97.1	78.2	12.07657	0.887	-100.7	71.6	43.0	29.7	28.4	29.09786	20-21			
22	-0.125	20.311	252.73173	-79.3	-2.5	-96.7	77.4	11.59403	0.931	-99.8	70.8	48.2	23.7	22.4	26.44730	21-22			
23	-0.061	19.513	244.29815	-75.9	-2.1	-96.4	76.7	11.16516	0.973	-99.0	70.0	53.4	17.8	16.5	24.72795	22-23			
24	-0.003	18.774	238.73482	-69.3	-1.6	-96.1	73.0	10.66091	0.989	-98.4	69.2	58.5	12.1	10.7	22.45638	23-24			
25	0.706	18.795	238.08717	-97.0	-1.8	-94.4	72.8	10.87117	0.998	-94.2	69.3	58.0	11.3	11.2	21.48792	24-25			
26	1.430	18.819	239.70047	-121.9	-2.0	-92.7	71.2	11.01131	0.990	-90.0	69.3	57.9	13.3	11.3	21.94194	25-26			
27	2.172	18.845	243.69213	-138.3	-2.1	-90.9	68.9	11.13837	0.976	-85.8	69.4	58.0	17.3	10.7	22.49562	26-27			
28	2.882	18.872	249.62062	-147.8	-2.3	-89.2	66.7	11.26491	0.960	-81.9	69.4	58.4	21.7	9.7	21.51718	27-28			

RA-VIII CAMERA FA

36

FEB. 20, 1965 9 HR 55 MIN 31 SEC 787 MS

TAB NO 36

ATLAS PHOTO NO 36

POD SEQUENCE NO 494

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LONG	R	V	PTH	AZ				
				124.968		224.71715	0.674	17.697	1960.217	2.527	-46.157	73.908				
PHOTO DATA																
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCO	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.468	20.566	244.28634	-107.3	-3.2	-92.7	72.7	11.41806	0.909	-90.0	71.1	47.3	24.6	23.6	0.	1-2
3	2.215	19.813	239.98877	-126.6	-2.9	-90.7	69.7	11.11309	0.936	-85.4	70.3	52.8	21.9	16.9	32.09185	2-
4	2.239	20.615	248.69974	-119.2	-3.6	-90.5	70.4	11.56938	0.894	-85.1	71.1	47.5	27.1	23.0	24.28183	3-4
5	2.268	21.493	260.84882	-114.1	-4.3	-90.3	71.1	12.08476	0.849	-84.6	72.0	42.2	32.6	29.1	26.57034	4-5
6	1.463	21.428	256.04006	-104.1	-3.8	-92.7	73.4	11.91503	0.864	-90.0	71.9	41.9	30.6	29.8	24.45370	5-6
7	0.681	21.371	253.92814	-93.0	-3.4	-94.9	75.7	11.75840	0.877	-95.4	71.8	42.2	29.6	29.6	23.75008	6-7
8	0.719	20.522	242.42201	-93.7	-2.9	-94.7	75.0	11.27738	0.921	-94.9	71.0	47.5	23.5	23.5	25.73396	7-8
9	0.753	19.744	234.19252	-95.0	-2.4	-94.6	74.2	10.84990	0.962	-94.5	70.2	52.8	17.4	17.4	23.58788	8-9
10	1.474	19.777	235.88556	-112.5	-2.6	-92.7	72.0	10.97713	0.950	-90.0	70.3	52.6	18.8	17.5	21.87125	9-10
11	2.215	19.813	239.98877	-126.6	-2.9	-90.7	69.7	11.11309	0.936	-85.4	70.3	52.8	21.9	16.9	22.45196	10-11
12	2.876	19.100	239.92150	-147.3	-2.3	-89.2	66.9	10.82678	0.959	-81.9	69.7	58.4	21.9	9.9	22.75558	11-12
13	2.924	19.851	246.05582	-136.3	-3.1	-88.9	67.6	11.24861	0.920	-81.3	70.4	53.3	25.6	15.7	24.72986	12-13
14	2.978	20.667	255.19289	-128.2	-3.9	-88.6	68.2	11.72119	0.878	-80.5	71.2	48.1	30.2	21.6	27.11677	13-14
15	3.041	21.561	267.85940	-122.3	-4.8	-88.2	68.9	12.25632	0.833	-79.7	72.1	42.9	35.3	27.6	30.06292	14-15
16	3.116	22.552	284.69613	-117.8	-5.6	-87.7	69.6	12.87025	0.784	-78.6	73.1	37.9	40.7	33.5	24.76655	15-16
17	2.303	22.463	277.03782	-110.5	-5.0	-90.1	71.8	12.67421	0.801	-84.0	73.0	37.0	38.4	35.2	25.68898	16-17
18	1.459	22.379	271.71678	-101.8	-4.4	-92.7	74.1	12.48190	0.816	-90.0	72.9	36.7	36.7	36.0	24.88898	17-18
19	0.640	22.306	269.25731	-92.5	-3.9	-95.2	76.4	12.30596	0.829	-95.9	72.8	37.0	35.8	35.8	24.89818	18-19
20	-0.158	22.244	269.48771	-83.1	-3.4	-97.6	78.7	12.14413	0.838	-101.8	72.7	37.9	35.9	34.4	24.26855	19-20
21	-0.082	21.322	254.36038	-81.7	-3.0	-97.2	78.0	11.61311	0.886	-100.7	71.8	43.0	29.8	28.5	28.02079	20-21
22	-0.014	20.484	242.96936	-79.7	-2.6	-96.8	77.2	11.14593	0.930	-99.8	70.9	48.2	23.8	22.6	25.46194	21-22
23	0.047	19.715	234.78524	-76.5	-2.1	-96.5	76.5	10.73022	0.972	-99.0	70.2	53.4	17.9	16.7	23.35865	22-23
24	0.103	19.004	229.35855	-70.3	-1.7	-96.2	72.9	10.24849	0.990	-98.4	69.5	58.5	12.3	10.9	21.59836	23-24
25	0.785	19.025	228.77613	-97.3	-1.8	-94.4	72.7	10.45471	0.999	-94.2	69.5	58.0	11.5	11.5	20.64442	24-25
26	1.480	19.049	230.35690	-121.6	-2.0	-92.7	71.3	10.58205	0.989	-90.0	69.6	57.9	13.5	11.5	21.08748	25-26
27	2.194	19.074	234.21380	-137.8	-2.2	-90.8	69.0	10.70497	0.975	-85.8	69.6	58.0	17.4	11.0	21.62336	26-27
28	2.876	19.100	239.92150	-147.3	-2.3	-89.2	66.9	10.82678	0.959	-81.9	69.7	58.4	21.9	9.9	20.68336	27-28

RA-VIII CAMERA FA

37

FEB. 20, 1965 9 HR 55 MIN 36 SEC 907 MS

TAB NO 37

ATLAS PHOTO NO 37

POD SEQUENCE NO 496

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					119.848		215.38818	0.747	17.950	1950.888	2.532	-45.995	73.912			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.519	20.736	234.54132	-107.4	-3.3	-92.7	72.6	10.96257	0.908	-90.0	71.2	47.3	24.8	23.8	0.	1-2
3	2.235	20.013	230.35713	-126.3	-2.9	-90.7	69.7	10.66697	0.935	-85.4	70.5	52.8	22.1	17.1	30.81562	2-3
4	2.259	20.784	238.80296	-119.1	-3.6	-90.5	70.4	11.10892	0.893	-85.1	71.3	47.5	27.2	23.1	23.34132	3-4
5	2.288	21.628	250.54923	-114.1	-4.3	-90.3	71.1	11.60756	0.848	-84.6	72.2	42.2	32.8	29.2	25.55318	4-5
6	1.515	21.565	245.90401	-104.1	-3.9	-92.7	73.3	11.44333	0.863	-90.0	72.1	41.9	30.7	30.0	23.49211	5-6
7	0.764	21.510	243.83645	-93.2	-3.5	-95.0	75.5	11.29097	0.875	-95.4	72.0	42.2	29.8	29.8	22.81155	6-7
8	0.799	20.694	232.71616	-94.0	-2.9	-94.8	74.8	10.82581	0.920	-94.9	71.2	47.5	23.7	23.7	24.74022	7-8
9	0.832	19.946	224.74015	-95.2	-2.4	-94.6	74.1	10.41195	0.961	-94.5	70.4	52.8	17.6	17.6	22.66673	8-9
10	1.525	19.978	226.39695	-112.5	-2.6	-92.7	72.0	10.53556	0.949	-90.0	70.5	52.6	19.1	17.7	20.99246	9-10
11	2.235	20.013	230.35713	-126.3	-2.9	-90.7	69.7	10.66697	0.935	-85.4	70.5	52.8	22.1	17.1	21.55384	10-11
12	2.870	19.329	240.21507	-146.8	-2.4	-89.1	67.0	10.38834	0.958	-81.9	69.9	58.4	22.0	10.2	28.26216	11-12
13	2.916	20.050	236.19113	-136.0	-3.1	-88.8	67.7	10.79730	0.919	-81.3	70.6	53.3	25.8	15.9	21.86320	12-13
14	2.969	20.834	245.04913	-128.0	-4.0	-88.5	68.4	11.25503	0.877	-80.5	71.4	48.1	30.4	21.8	23.77442	13-14
15	3.031	21.694	257.29510	-122.2	-4.8	-88.1	69.0	11.77276	0.832	-79.7	72.3	42.9	35.4	27.7	26.08099	14-15
16	3.103	22.647	273.54277	-117.8	-5.6	-87.6	69.7	12.36593	0.783	-78.6	73.2	37.9	40.8	33.6	28.92198	15-16
17	2.322	22.561	266.17267	-110.5	-5.0	-90.1	71.8	12.17713	0.800	-84.0	73.1	37.0	38.5	35.3	23.79945	16-17
18	1.511	22.480	261.03141	-101.9	-4.5	-92.7	74.0	11.99101	0.815	-90.0	73.0	36.7	36.8	36.1	24.68616	17-18
19	0.774	22.409	258.62465	-92.7	-4.0	-95.2	76.3	11.81981	0.828	-95.9	72.9	37.0	35.9	35.9	23.92140	18-19
20	-0.043	22.348	258.78745	-83.3	-3.5	-97.7	76.5	11.66143	0.837	-101.8	72.8	37.9	36.0	34.5	23.30708	19-20
21	0.030	21.462	244.19984	-82.0	-3.1	-97.2	77.8	11.14886	0.885	-100.7	71.9	43.0	30.0	28.7	26.93873	20-21
22	0.096	20.656	233.19537	-80.1	-2.6	-96.9	77.0	10.69731	0.929	-99.8	71.1	48.2	24.0	22.8	24.47269	21-22
23	0.155	19.918	225.26715	-77.0	-2.2	-96.5	76.3	10.29506	0.971	-99.0	70.4	53.4	18.1	16.9	22.44157	22-23
24	0.210	19.235	219.98362	-71.2	-1.7	-96.3	72.7	9.83583	0.990	-98.4	69.7	58.5	12.4	11.1	20.73881	23-24
25	0.863	19.256	219.46315	-97.7	-1.9	-94.5	72.7	10.03766	1.000	-94.2	69.7	58.0	11.7	11.7	19.80125	24-25
26	1.531	19.278	221.00880	-121.4	-2.0	-92.6	71.3	10.15259	0.988	-90.0	69.8	57.9	13.7	11.7	20.23259	25-26
27	2.215	19.303	224.72918	-137.3	-2.2	-90.8	69.1	10.27129	0.974	-85.8	69.8	58.0	17.6	11.2	20.75032	26-27
28	2.870	19.329	230.21507	-146.8	-2.4	-89.1	67.0	10.38834	0.958	-81.9	69.9	58.4	22.0	10.2	19.84870	27-28

RA-VIII CAMERA FA

38

FEB. 20, 1965 9 HR 55 MIN 42 SEC 27 MS

TAB NO 38

ATLAS PHOTO NO 38

POD SEQUENCE NO 498

TRAJECTORY DATA				SEC TO IMPACT				ALT	LAT	LON	R	V	PTH	AZ		
PHOTO DATA				114.728				206.06725	0.820	18.206	1941.567	2.537	-45.832	73.915		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.570	20.907	224.77531	-107.4	-3.3	-92.7	72.6	10.50610	0.906	-90.0	71.4	47.3	25.0	24.0	0.	1-2
3	2.256	20.213	220.70695	-126.1	-2.9	-90.6	69.8	10.22000	0.934	-85.4	70.7	52.8	22.3	17.3	29.53662	2-3
4	2.279	20.953	228.88017	-118.9	-3.6	-90.5	70.5	10.64725	0.892	-85.1	71.5	47.5	27.4	23.3	22.39644	3-4
5	2.307	21.763	240.21583	-114.0	-4.3	-90.3	71.1	11.12880	0.847	-84.6	72.3	42.2	32.9	29.4	24.53021	4-5
6	1.565	21.702	235.73982	-104.2	-3.9	-92.7	73.3	10.97032	0.862	-90.0	72.2	41.9	30.9	30.1	22.52662	5-6
7	0.845	21.649	233.72282	-93.4	-3.5	-95.0	75.4	10.82254	0.874	-95.4	72.1	42.2	29.9	29.9	21.87022	6-7
8	0.880	20.865	222.99486	-94.2	-3.0	-94.8	74.8	10.37352	0.919	-94.9	71.4	47.5	23.8	23.8	23.74217	7-8
9	0.911	20.148	215.27884	-95.5	-2.4	-94.6	74.1	9.97359	0.960	-94.5	70.6	52.8	17.8	17.8	21.74251	8-9
10	1.575	20.179	216.89434	-112.4	-2.7	-92.6	72.0	10.09335	0.948	-90.0	70.7	52.6	19.3	17.9	20.11227	9-10
11	2.256	20.213	220.70695	-126.1	-2.9	-90.6	69.8	10.22000	0.934	-85.4	70.7	52.8	22.3	17.3	20.65342	10-11
12	2.863	19.557	220.49406	-146.2	-2.4	-89.0	67.2	9.94929	0.957	-81.9	70.1	58.4	22.1	10.4	27.07395	11-12
13	2.908	20.248	226.30407	-135.6	-3.2	-88.7	67.9	10.34501	0.918	-81.3	70.8	53.3	25.9	16.1	22.96745	12-13
14	2.959	21.001	234.87502	-127.8	-4.0	-88.4	68.5	10.78750	0.876	-80.5	71.6	48.1	30.5	22.0	22.81402	13-14
15	3.019	21.826	246.69205	-122.1	-4.8	-88.1	69.1	11.28743	0.831	-79.7	72.4	42.9	35.5	27.9	25.03869	14-15
16	3.089	22.742	262.34180	-117.7	-5.6	-87.6	69.8	11.85946	0.782	-78.6	73.3	37.9	40.8	33.7	27.77299	15-16
17	2.340	22.659	255.26559	-110.5	-5.1	-90.1	71.8	11.67813	0.799	-84.0	73.2	37.0	38.6	35.4	22.82704	16-17
18	1.562	22.580	250.31054	-101.9	-4.5	-92.7	74.0	11.49850	0.814	-90.0	73.1	36.7	36.9	36.2	23.67857	17-18
19	0.808	22.512	247.96344	-92.8	-4.0	-95.2	76.1	11.33238	0.826	-95.9	73.0	37.0	36.0	36.0	22.94109	18-19
20	0.072	22.452	248.06637	-83.5	-3.6	-97.8	78.3	11.17786	0.836	-101.8	72.9	37.9	36.0	34.7	22.34343	19-20
21	0.143	21.601	234.02423	-82.3	-3.1	-97.3	77.6	10.68395	0.884	-100.7	72.1	43.0	30.1	28.8	25.85234	20-21
22	0.206	20.829	223.41220	-80.5	-2.7	-96.9	76.9	10.24828	0.928	-99.8	71.3	48.2	24.1	22.9	23.47996	21-22
23	0.263	20.121	215.74584	-77.6	-2.2	-96.6	76.2	9.85976	0.970	-99.0	70.6	53.4	18.3	17.1	21.52208	22-23
24	0.315	19.466	210.61155	-72.1	-1.7	-96.3	72.6	9.42306	0.991	-98.4	69.9	58.5	12.6	11.4	19.87796	23-24
25	0.941	19.486	210.14767	-98.0	-1.9	-94.5	73.4	9.61408	0.999	-94.2	70.0	58.0	12.0	11.9	18.95833	24-25
26	1.580	19.508	211.65361	-121.1	-2.0	-92.6	71.3	9.72281	0.987	-90.0	70.0	57.9	14.0	12.0	19.37695	25-26
27	2.236	19.532	215.23333	-136.8	-2.2	-90.8	69.2	9.83712	0.973	-85.8	70.1	58.0	17.8	11.4	19.87573	26-27
28	2.863	19.557	220.49406	-146.2	-2.4	-89.0	67.2	9.94929	0.957	-81.9	70.1	58.4	22.1	10.4	19.01209	27-28

RA-VIII CAMERA FA

39

FEB. 20, 1965 9 HR 55 MIN 47 SEC 147 MS

TAB NO 39 ATLAS PHOTO NO 39 POD SEQUENCE NO 500

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				109.608		196.75490	0.895	18.463	1932.255	2.542	-45.668	73.920				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.620	21.077	214.99037	-107.4	-3.3	-92.7	72.6	10.04875	0.905	-90.0	71.6	47.3	25.2	24.1	0.	1-2
3	2.276	20.413	211.04312	-125.8	-2.9	-90.6	69.9	9.77240	0.932	-85.4	70.9	52.8	22.4	17.5	28.25490	2-3
4	2.299	21.121	218.93630	-118.8	-3.6	-90.4	70.5	10.18462	0.890	-85.1	71.7	47.5	27.6	23.5	21.44760	3-4
5	2.325	21.897	229.85368	-114.0	-4.4	-90.3	71.2	10.64872	0.846	-84.6	72.4	42.2	33.0	29.5	23.50181	4-5
6	1.616	21.839	225.54936	-104.2	-3.9	-92.7	73.3	10.49610	0.861	-90.0	77.3	41.9	31.0	30.3	21.54815	5-6
7	0.927	21.787	223.58610	-93.5	-3.5	-95.0	75.3	10.35305	0.873	-95.4	72.3	42.2	30.1	30.1	20.92638	6-7
8	0.960	21.037	213.25743	-94.4	-3.0	-94.8	74.7	9.92048	0.917	-94.9	71.5	47.5	24.0	24.0	22.73955	7-8
9	0.990	20.350	205.80822	-95.7	-2.5	-94.7	74.0	9.53481	0.959	-94.5	70.8	52.8	18.0	18.0	20.81496	8-9
10	1.625	20.380	207.37990	-112.3	-2.7	-92.6	72.0	9.65058	0.947	-90.0	70.9	52.6	19.5	18.1	19.23094	9-10
11	2.276	20.413	211.04312	-125.8	-2.9	-90.6	69.9	9.77240	0.932	-85.4	70.9	52.8	22.4	17.5	19.75153	10-11
12	2.856	19.785	210.76603	-145.7	-2.4	-88.9	67.4	9.50996	0.956	-81.9	70.3	58.4	22.2	10.7	25.88465	11-12
13	2.900	20.447	216.40234	-135.3	-3.2	-88.7	68.0	9.89208	0.917	-81.3	71.0	53.3	26.1	16.3	20.06897	12-13
14	2.949	21.167	224.67852	-127.6	-4.0	-88.4	68.6	10.31896	0.875	-80.5	71.7	48.1	30.6	22.2	21.84941	13-14
15	3.007	21.958	236.05864	-121.9	-4.8	-88.0	69.2	10.80074	0.829	-79.7	72.5	42.9	35.6	28.0	23.99069	14-15
16	3.074	22.836	251.10221	-117.6	-5.6	-87.6	69.9	11.35125	0.781	-78.6	73.4	37.9	40.9	33.8	26.61691	15-16
17	2.357	22.756	244.32173	-110.5	-5.1	-90.0	71.8	11.17746	0.797	-84.0	73.3	37.0	38.7	35.5	21.85104	16-17
18	1.613	22.680	239.55579	-102.0	-4.6	-92.7	73.9	11.00443	0.813	-90.0	73.2	36.7	37.0	36.3	22.66723	17-18
19	0.891	22.614	237.27200	-93.0	-4.1	-95.3	76.0	10.84359	0.825	-95.9	73.1	37.0	36.1	36.1	21.95756	18-19
20	0.188	22.556	237.31953	-83.8	-3.6	-97.8	78.1	10.69315	0.836	-101.8	73.0	37.9	36.1	34.8	21.37756	19-20
21	0.255	21.741	223.82947	-82.6	-3.2	-97.4	77.4	10.21820	0.883	-100.7	72.2	43.0	30.2	29.0	24.76074	20-21
22	0.316	21.001	213.61641	-80.9	-2.7	-97.0	76.7	9.79871	0.927	-99.8	71.5	48.2	24.3	23.1	22.48314	21-22
23	0.370	20.323	206.21845	-78.1	-2.2	-96.7	76.1	9.42419	0.969	-99.0	70.8	53.4	18.4	17.3	20.59969	22-23
24	0.421	19.698	201.24003	-73.0	-1.8	-96.4	72.4	9.00995	0.992	-98.4	70.2	58.5	12.8	11.6	19.01546	23-24
25	1.018	19.717	200.82974	-98.2	-1.9	-94.5	73.4	9.18778	0.999	-94.2	70.2	58.0	12.2	12.2	18.11545	24-25
26	1.629	19.738	202.29364	-120.8	-2.0	-92.6	71.3	9.29282	0.986	-90.0	70.3	57.9	14.2	12.2	18.52084	25-26
27	2.256	19.761	205.73118	-136.3	-2.2	-90.7	69.3	9.40268	0.972	-85.8	70.3	58.0	18.0	11.7	19.00339	26-27
28	2.856	19.785	210.76603	-145.7	-2.4	-88.9	67.4	9.50996	0.956	-81.9	70.3	58.4	22.2	10.7	18.17476	27-28

RA-VIII CAMERA FA

40

FEB. 20, 1965 9 HR 55 MIN 52 SEC 267 MS

TAB NO 40 ATLAS PHOTO NO 40 POD SEQUENCE NO 502

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				104.488		187.45094	0.970	18.724	1922.951	2.546	-45.502	73.925				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.670	21.246	205.16662	-107.4	-3.3	-92.6	72.6	9.59047	0.904	-90.0	71.8	47.3	25.3	24.3	0.	1-2
3	2.296	20.612	201.36489	-125.5	-2.9	-90.5	70.0	9.32415	0.931	-85.4	71.2	52.8	22.6	17.7	26.97031	2-3
4	2.318	21.289	209.97047	-118.7	-3.7	-90.4	70.6	9.72096	0.889	-85.1	71.8	47.5	27.7	23.7	20.49465	3-4
5	2.344	22.031	219.46178	-113.9	-4.4	-90.2	71.2	10.16725	0.844	-84.6	72.6	42.2	33.2	29.7	22.46788	4-5
6	1.667	21.975	215.33165	-104.3	-4.0	-92.7	73.2	10.02060	0.859	-90.0	72.5	41.9	31.2	30.4	20.58663	5-6
7	1.009	21.925	213.42533	-93.7	-3.6	-95.1	75.2	9.88246	0.872	-95.4	72.4	42.2	30.2	30.2	19.97991	6-7
8	1.040	21.208	203.50304	-94.5	-3.0	-94.9	74.6	9.46666	0.916	-94.9	71.7	47.5	24.2	24.2	21.73218	7-8
9	1.069	20.552	196.32751	-95.9	-2.5	-94.7	74.0	9.09556	0.958	-94.5	71.0	52.8	18.2	18.2	19.88401	8-9
10	1.674	20.581	197.85287	-112.3	-2.7	-92.6	72.0	9.20723	0.946	-90.0	71.1	52.6	19.7	18.3	18.34840	9-10
11	2.296	20.612	201.36489	-125.5	-2.9	-90.5	70.0	9.32415	0.931	-85.4	71.2	52.8	22.6	17.7	18.84808	10-11
12	2.849	20.013	201.03020	-145.2	-2.4	-88.9	67.6	9.07031	0.955	-81.9	70.6	58.4	22.3	10.9	24.69411	11-12
13	2.891	20.645	206.48518	-135.0	-3.2	-88.6	68.2	9.43846	0.916	-81.3	71.2	53.3	26.2	16.6	19.16763	12-13
14	2.939	21.333	214.45875	-127.4	-4.0	-88.3	68.8	9.84937	0.873	-80.5	71.9	48.1	30.7	22.3	20.59805	13-14
15	2.995	22.090	225.39389	-121.8	-4.8	-87.9	69.3	10.31262	0.828	-79.7	72.7	42.9	35.7	28.2	22.93684	14-15
16	3.060	22.929	239.82296	-117.5	-5.6	-87.5	70.0	10.84126	0.780	-78.6	73.5	37.9	41.0	33.9	25.45361	15-16
17	2.375	22.852	233.34007	-110.4	-5.1	-90.0	71.8	10.67505	0.796	-84.0	73.4	37.0	38.8	35.6	20.87140	16-17
18	1.664	22.780	228.76610	-102.1	-4.6	-92.7	73.9	10.50876	0.812	-90.0	73.3	36.7	37.1	36.4	21.65207	17-18
19	0.974	22.716	226.54927	-93.1	-4.1	-95.3	75.9	10.35337	0.824	-95.9	73.2	37.0	36.2	36.2	20.97068	18-19
20	0.303	22.659	226.54586	-84.0	-3.7	-97.9	77.9	10.20728	0.835	-101.8	73.1	37.9	36.2	34.9	20.40922	19-20
21	0.368	21.980	213.61456	-82.9	-3.2	-97.4	77.2	9.75156	0.882	-100.7	72.4	43.0	30.3	29.1	23.66385	20-21
22	0.425	21.174	203.80717	-81.2	-2.8	-97.0	76.6	9.34853	0.926	-99.8	71.6	48.2	24.4	23.3	21.48205	21-22
23	0.478	20.526	196.68423	-78.6	-2.3	-96.7	75.9	8.98833	0.968	-99.0	71.0	53.4	18.6	17.5	19.67426	22-23
24	0.526	19.929	191.86831	-73.8	-1.8	-96.4	72.3	8.59643	0.992	-98.4	70.4	58.5	13.0	11.8	18.15115	23-24
25	1.096	19.947	191.50858	-98.5	-1.9	-94.5	73.3	8.76134	0.998	-94.2	70.4	58.0	12.4	12.4	17.27254	24-25
26	1.679	19.968	192.92823	-120.5	-2.1	-92.6	71.4	8.86257	0.985	-90.0	70.5	57.9	14.4	12.4	17.66418	25-26
27	2.277	19.990	196.22203	-135.8	-2.2	-90.7	69.4	8.96793	0.971	-85.8	70.5	58.0	18.1	11.9	18.12422	26-27
28	2.849	20.013	201.03020	-145.2	-2.4	-88.9	67.6	9.07031	0.955	-81.9	70.6	58.4	22.3	10.9	17.33660	27-28

RA-VIII CAMERA FA

41

FEB. 20, 1965 9 HR 55 MIN 57 SEC 387 MS

TAB NO 41

ATLAS PHOTO NO 41

POD SEQUENCE NO 504

TRAJECTORY DATA				SEC TO IMPACT				ALT	LAT	LON	R	V	PTH	AZ	
PHOTO DATA				99.368				178.15587	1.045	18.987	1913.656	2.551	-45.334	73.930	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.720	21.416	195.36060	-107.4	-3.4	-92.6	72.6	9.13125	0.902	-90.0	71.9	47.3	25.5	24.5	0.
3	2.316	20.812	191.67201	-125.3	-3.0	-90.5	70.1	8.87523	0.930	-85.4	71.4	52.8	22.8	17.9	25.68277
4	2.337	21.457	198.98239	-118.6	-3.7	-90.4	70.7	9.25628	0.888	-85.1	72.0	47.5	27.9	23.8	19.53753
5	2.362	22.165	209.03971	-113.9	-4.4	-90.2	71.3	9.68439	0.843	-84.6	72.7	42.2	33.3	29.8	21.42825
6	1.717	22.111	205.08607	-104.3	-4.0	-92.7	73.2	9.54381	0.858	-90.0	72.6	41.9	31.3	30.5	19.61202
7	1.091	22.062	203.23974	-93.9	-3.6	-95.1	75.1	9.41072	0.871	-95.4	72.6	42.2	30.3	30.3	19.03078
8	1.121	21.379	193.73106	-94.7	-3.1	-94.9	74.5	9.01203	0.915	-94.9	71.9	47.5	24.4	24.4	20.71991
9	1.148	20.754	186.83629	-96.1	-2.5	-94.7	73.9	8.65582	0.957	-94.5	71.2	52.8	18.4	18.4	18.94951
10	1.724	20.781	188.31293	-112.2	-2.7	-92.6	72.0	8.76327	0.944	-90.0	71.3	52.6	19.9	18.5	17.46461
11	2.316	20.812	191.67201	-125.3	-3.0	-90.5	70.1	8.87523	0.930	-85.4	71.4	52.8	22.8	17.9	17.94308
12	2.841	20.241	191.28667	-144.7	-2.4	-88.8	67.7	8.63034	0.954	-81.9	70.8	58.4	22.5	11.1	23.50232
13	2.882	20.843	196.55248	-134.6	-3.2	-88.5	68.3	8.98416	0.914	-81.3	71.4	53.3	26.3	16.8	18.26336
14	2.929	21.499	204.21551	-127.2	-4.0	-88.2	68.9	9.37872	0.872	-80.5	72.1	48.1	30.9	22.5	19.90704
15	2.982	22.221	214.69749	-121.7	-4.8	-87.9	69.5	9.82307	0.827	-79.7	72.8	42.9	35.9	28.3	21.87705
16	3.044	23.021	228.50359	-117.4	-5.6	-87.5	70.0	10.32947	0.779	-78.6	73.6	37.9	41.1	34.0	24.28295
17	2.392	22.948	222.31998	-110.4	-5.1	-90.0	71.9	10.17089	0.795	-84.0	73.5	37.0	38.9	35.7	19.88808
18	1.714	22.878	217.94067	-102.1	-4.6	-92.7	73.8	10.01145	0.810	-90.0	73.4	36.7	37.2	36.5	20.63304
19	1.058	22.817	215.79433	-93.2	-4.2	-95.3	75.7	9.86170	0.823	-95.9	73.3	37.0	36.3	36.3	19.98041
20	0.418	22.762	215.74434	-84.2	-3.8	-98.0	77.7	9.72019	0.834	-101.8	71.7	37.9	36.3	35.0	19.43829
21	0.480	22.019	203.37872	-83.1	-3.3	-97.5	77.0	9.28398	0.881	-100.7	72.5	43.0	30.4	29.3	22.56142
22	0.535	21.346	193.98380	-81.6	-2.8	-97.1	76.4	8.89772	0.925	-99.8	71.8	48.2	24.5	23.5	20.47658
23	0.586	20.729	187.14260	-79.1	-2.3	-96.8	75.8	8.55214	0.967	-99.0	71.2	53.4	18.8	17.7	18.74569
24	0.631	20.160	182.49593	-74.6	-1.8	-96.5	72.2	8.18245	0.993	-98.4	70.6	58.5	13.2	12.1	17.28495
25	1.174	20.178	182.18390	-98.7	-1.9	-94.6	73.3	8.33474	0.997	-94.2	70.7	58.0	12.7	12.6	16.42956
26	1.728	20.198	183.55712	-120.2	-2.1	-92.6	71.4	8.43207	0.984	-90.0	70.7	57.9	14.6	12.6	16.80696
27	2.297	20.219	186.70576	-135.3	-2.2	-90.6	69.5	8.53287	0.970	-85.8	70.8	58.0	18.3	12.1	17.24723
28	2.841	20.241	191.28667	-144.7	-2.4	-88.8	67.7	8.63034	0.954	-81.9	70.8	58.4	22.5	11.1	16.49770

RA-VIII CAMERA FA

42

FEB. 20, 1965 9 HR 56 MIN 2 SEC 507 MS

TAB NO 42

ATLAS PHOTO NO 42

POD SEQUENCE NO 506

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA				94.248		168.87003	1.122	19.252	1904.370	2.556	-45.165	73.935			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.770	21.585	185.51507	-107.4	-3.4	-92.6	72.6	8.67106	0.901	-90.0	72.1	47.3	25.7	24.7	0.
3	2.335	21.011	181.96407	-125.1	-3.0	-90.5	70.2	8.42562	0.929	-85.4	71.6	52.8	23.0	18.1	24.39224
4	2.356	21.625	188.97159	-118.4	-3.7	-90.3	70.7	8.79054	0.886	-85.1	72.2	47.5	28.0	24.0	18.57615
5	2.380	22.298	198.58706	-113.8	-4.4	-90.2	71.3	9.20011	0.842	-84.6	72.8	42.2	33.4	29.9	20.38292
6	1.767	22.246	194.81251	-104.3	-4.0	-92.7	73.2	9.06572	0.857	-90.0	72.8	41.9	31.5	30.7	18.63426
7	1.172	22.200	193.02944	-94.0	-3.7	-95.1	75.0	8.93785	0.869	-95.4	72.7	42.2	30.5	30.5	18.07895
8	1.201	21.550	183.94146	-94.9	-3.1	-94.9	74.4	8.55658	0.914	-94.9	72.0	47.5	24.5	24.5	19.70279
9	1.227	20.956	177.33443	-96.4	-2.5	-94.7	73.8	8.21559	0.956	-94.5	71.5	52.8	18.6	18.6	18.01144
10	1.774	20.982	178.75977	-112.1	-2.8	-92.6	72.0	8.31870	0.943	-90.0	71.5	52.6	20.1	18.7	16.57953
11	2.335	21.011	181.96407	-125.1	-3.0	-90.5	70.2	8.42562	0.929	-85.4	71.6	52.8	23.0	18.1	17.03645
12	2.834	20.469	181.53470	-144.2	-2.4	-88.7	67.9	8.19002	0.954	-81.9	71.0	58.4	22.6	11.4	22.30918
13	2.873	21.041	186.60361	-134.3	-3.2	-88.5	68.4	8.52914	0.913	-81.3	71.6	53.3	26.5	17.0	17.35608
14	2.918	21.665	193.94824	-127.0	-4.0	-88.2	69.0	8.90699	0.871	-80.5	72.2	48.1	31.0	22.7	18.92915
15	2.969	22.351	203.96888	-121.5	-4.8	-87.8	69.6	9.33206	0.826	-79.7	72.9	42.9	36.0	28.4	20.81123
16	3.029	23.113	217.14361	-117.4	-5.6	-87.4	70.1	9.81585	0.778	-78.6	73.7	37.9	41.2	34.1	23.10492
17	2.409	23.043	211.26120	-110.4	-5.1	-90.0	71.9	9.66496	0.794	-84.0	73.6	37.0	39.0	35.8	18.90103
18	1.765	22.976	207.07948	-102.2	-4.7	-92.7	73.7	9.51249	0.809	-90.0	73.5	36.7	37.3	36.6	19.61008
19	1.141	22.917	205.00735	-93.4	-4.2	-95.4	75.6	9.36859	0.822	-95.9	73.4	37.0	36.4	36.4	18.98672
20	0.533	22.864	204.91534	-84.4	-3.8	-98.0	77.5	9.23190	0.833	-101.8	73.3	37.9	36.4	35.1	18.46477
21	0.592	22.158	193.12213	-83.4	-3.4	-97.6	76.8	8.81549	0.880	-100.7	72.6	43.0	30.5	29.4	21.45359
22	0.645	21.518	184.14642	-81.9	-2.9	-97.2	76.2	8.44629	0.924	-99.8	72.0	48.2	24.7	23.7	19.46677
23	0.693	20.931	177.59364	-79.6	-2.4	-96.8	75.6	8.11563	0.966	-99.0	71.4	53.4	18.9	17.9	17.81393
24	0.737	20.391	173.12287	-75.4	-1.8	-96.6	72.0	7.76800	0.994	-98.4	70.9	58.5	13.3	12.3	16.41684
25	1.251	20.408	172.85548	-99.0	-2.0	-94.6	73.2	7.90797	0.996	-94.2	70.9	58.0	12.9	12.9	15.58650
26	1.777	20.427	174.17997	-120.0	-2.1	-92.6	71.4	8.00129	0.983	-90.0	70.9	57.9	14.9	12.9	15.94915
27	2.317	20.448	177.18195	-134.9	-2.3	-90.6	69.6	8.09747	0.969	-85.8	71.0	58.0	18.5	12.4	16.36934
28	2.834	20.469	181.53470	-144.2	-2.4	-88.7	67.9	8.19002	0.954	-81.9	71.0	58.4	22.6	11.4	15.65793

RA-VIII CAMERA FA

43

FEB. 20, 1965 9 HR 56 MIN 7 SEC 627 MS

TAB NO 43

ATLAS PHOTO NO 43

POD SEQUENCE NO 508

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
					89.128		159.59372	1.199	19.520	1895.094	2.561	-44.995	73.941			
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.820	21.755	175.64827	-107.4	-3.4	-92.6	72.6	8.20988	0.900	-90.0	72.3	47.3	25.9	24.8	0.	1-2
3	2.355	21.211	172.23999	-124.8	-3.0	-90.4	70.2	7.97527	0.927	-85.5	71.8	52.8	23.1	18.3	23.09863	2-3
4	2.375	21.792	178.93698	-118.3	-3.7	-90.3	70.8	8.32370	0.885	-85.1	72.3	47.5	28.2	24.2	17.61035	3-4
5	2.398	22.430	188.10261	-113.8	-4.4	-90.2	71.3	8.71437	0.841	-84.6	73.0	42.2	33.6	30.1	19.33170	4-5
6	1.817	22.381	184.51006	-104.4	-4.1	-92.7	73.1	8.58628	0.855	-90.0	72.9	41.9	31.6	30.8	17.65317	5-6
7	1.254	22.337	182.79387	-94.2	-3.7	-95.2	74.9	8.46382	0.868	-95.4	72.8	42.2	30.6	30.6	17.12431	6-7
8	1.281	21.720	174.13380	-95.1	-3.2	-95.0	74.3	8.10030	0.912	-94.9	72.2	47.5	24.7	24.7	18.68072	7-8
9	1.306	21.157	167.82151	-96.6	-2.6	-94.8	73.8	7.77485	0.955	-94.5	71.7	52.8	18.9	18.8	17.06974	8-9
10	1.823	21.183	169.19269	-112.1	-2.8	-92.6	72.0	7.87349	0.942	-90.0	71.7	52.6	20.3	18.9	15.69310	9-10
11	2.355	21.211	172.23999	-124.8	-3.0	-90.4	70.2	7.97527	0.927	-85.5	71.8	52.8	23.1	18.3	21.11450	10-11
12	2.826	20.696	171.77306	-143.7	-2.4	-88.6	68.1	7.74931	0.953	-81.9	71.3	58.4	22.7	11.6	16.11450	11-12
13	2.864	21.239	176.63722	-134.0	-3.2	-88.4	68.6	8.07336	0.912	-81.3	71.8	53.3	26.6	17.2	16.44559	12-13
14	2.907	21.830	183.65539	-126.8	-4.0	-88.1	69.1	8.43410	0.870	-80.5	72.4	48.1	31.1	22.9	17.94650	13-14
15	2.956	22.481	193.20643	-121.4	-4.8	-87.8	69.7	8.83951	0.825	-79.7	73.0	42.9	36.1	28.6	19.73923	14-15
16	3.013	23.204	205.74122	-117.3	-5.6	-87.4	70.2	9.30032	0.777	-78.6	73.8	37.9	41.2	34.2	21.91929	15-16
17	2.425	23.138	200.16235	-110.4	-5.2	-90.0	71.9	9.15719	0.793	-84.0	73.7	37.0	39.1	35.9	17.90996	16-17
18	1.815	23.074	196.18158	-102.2	-4.7	-92.7	73.7	9.01186	0.808	-90.0	73.6	36.7	37.4	36.7	18.58299	17-18
19	1.224	23.017	194.18780	-93.5	-4.3	-95.4	75.5	8.87400	0.821	-95.9	73.5	37.0	36.5	36.5	17.98947	18-19
20	0.649	22.966	194.05878	-84.7	-3.9	-98.1	77.3	8.74241	0.832	-101.8	73.4	37.9	36.5	35.2	17.48864	19-20
21	0.705	22.297	182.84470	-83.7	-3.4	-97.6	76.7	8.34608	0.879	-100.7	72.8	43.0	30.7	29.6	20.34032	20-21
22	0.755	21.689	174.29489	-82.3	-2.9	-97.2	76.1	7.99423	0.923	-99.8	72.2	48.2	24.8	23.8	18.45255	21-22
23	0.800	21.134	168.03718	-80.1	-2.4	-96.9	75.5	7.67879	0.965	-99.0	71.6	53.4	19.1	18.2	16.87901	22-23
24	0.842	20.622	163.74899	-76.2	-1.9	-96.6	71.9	7.35304	0.995	-98.4	71.1	58.5	13.5	12.6	15.54679	23-24
25	1.328	20.639	163.52295	-99.2	-2.0	-94.6	73.2	7.48101	0.995	-94.2	71.1	58.0	13.2	13.1	14.74333	24-25
26	1.826	20.657	164.79612	-119.7	-2.1	-92.6	71.5	7.57021	0.982	-90.0	71.2	57.9	15.1	13.1	15.09065	25-26
27	2.337	20.677	167.64936	-134.4	-2.3	-90.5	69.7	7.66169	0.968	-85.8	71.2	58.0	18.7	12.6	15.49043	26-27
28	2.826	20.696	171.77306	-143.7	-2.4	-88.6	68.1	7.74931	0.953	-81.9	71.3	58.4	22.7	11.6	14.81711	27-28

RA-VIII CAMERA FA

44

FEB. 20, 1965 9 HR 56 MIN 12 SEC 747 MS

TAB NO 44

ATLAS PHOTO NO 44

POD SEQUENCE NO 510

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
					84.008		150.32745	1.277	19.791	1885.827	2.566	-44.822	73.947			
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	FMIS	ALPHA	SCALE	PT-PT
2	1.869	21.923	165.75873	-107.4	-3.5	-92.6	72.6	7.74764	0.898	-90.0	72.4	47.3	26.0	25.0	0.	1-2
3	2.374	21.410	162.49736	-124.6	-3.0	-90.4	70.3	7.52408	0.926	-85.5	72.0	52.8	23.3	18.5	21.80182	2-3
4	2.393	21.959	168.87593	-118.2	-3.7	-90.3	70.9	7.85564	0.884	-85.1	72.5	47.5	28.3	24.3	16.63981	3-4
5	2.415	22.563	177.58355	-113.7	-4.4	-90.1	71.4	8.22702	0.839	-84.6	73.1	42.2	33.7	30.2	18.27428	4-5
6	1.867	22.516	174.17719	-104.4	-4.1	-92.7	73.1	8.10543	0.854	-90.0	73.0	41.9	31.8	30.9	16.66828	5-6
7	1.335	22.473	172.53273	-94.3	-3.8	-95.2	74.8	7.98862	0.867	-95.4	73.0	42.2	30.8	30.8	16.16664	6-7
8	1.360	21.891	164.30768	-95.3	-3.2	-95.0	74.3	7.64317	0.911	-94.9	72.4	47.5	24.9	24.9	17.65366	7-8
9	1.384	21.359	158.29716	-96.8	-2.6	-94.8	73.7	7.33359	0.953	-94.5	71.9	52.8	19.1	19.0	16.12434	8-9
10	1.872	21.383	159.61030	-112.0	-2.8	-92.6	72.0	7.42756	0.941	-90.0	71.9	52.6	20.5	19.1	14.80512	9-10
11	2.374	21.410	162.49736	-124.6	-3.0	-90.4	70.3	7.52408	0.926	-85.5	72.0	52.8	23.3	18.5	15.21751	10-11
12	2.818	20.924	161.99843	-143.1	-2.4	-88.6	68.3	7.30804	0.952	-81.9	71.5	58.4	22.9	11.9	19.91795	11-12
13	2.854	21.436	166.64982	-133.6	-3.2	-88.3	68.8	7.61664	0.911	-81.3	72.0	53.3	26.7	17.4	15.53154	12-13
14	2.895	21.995	173.33326	-126.6	-4.0	-88.1	69.3	7.95989	0.869	-80.5	72.6	48.1	31.3	23.1	16.95869	13-14
15	2.942	22.611	182.40603	-121.3	-4.8	-87.7	69.8	8.34524	0.824	-79.7	73.2	42.9	36.2	28.7	18.68069	14-15
16	2.996	23.294	194.29192	-117.2	-5.6	-87.3	70.3	8.78268	0.776	-78.6	73.9	37.9	41.3	34.3	20.72568	15-16
17	2.441	23.231	189.02036	-110.4	-5.2	-89.9	71.9	8.64745	0.792	-84.0	73.8	37.0	39.2	36.0	16.91413	16-17
18	1.865	23.171	185.24530	-102.3	-4.7	-92.7	73.6	8.50947	0.807	-90.0	73.7	36.7	37.5	36.8	17.55125	17-18
19	1.307	23.116	183.33540	-93.7	-4.4	-95.5	75.4	8.37793	0.820	-96.0	73.6	37.0	36.6	36.6	16.98842	18-19
20	0.764	23.067	183.17561	-84.9	-4.0	-98.1	77.1	8.25177	0.831	-101.8	73.6	37.9	36.5	35.3	16.50987	19-20
21	0.817	22.435	172.54720	-84.0	-3.5	-97.7	76.5	7.87578	0.878	-100.7	72.9	43.0	30.8	29.7	19.22180	20-21
22	0.864	21.861	164.42989	-82.6	-3.0	-97.3	75.9	7.54158	0.922	-99.8	72.3	48.2	25.0	24.0	17.43406	21-22
23	0.907	21.337	158.47381	-80.6	-2.4	-97.0	75.4	7.24165	0.964	-99.0	71.8	53.4	19.3	18.4	15.94094	22-23
24	0.947	20.854	154.37478	-76.9	-1.9	-96.7	71.8	6.93761	0.995	-98.4	71.3	58.5	13.7	12.8	14.67481	23-24
25	1.405	20.870	154.18590	-99.4	-2.0	-94.6	73.2	7.05385	0.994	-94.2	71.4	58.0	13.4	13.3	13.90005	24-25
26	1.875	20.887	155.40426	-119.5	-2.2	-92.6	71.5	7.13876	0.981	-90.0	71.4	57.9	15.3	13.4	14.23131	25-26
27	2.357	20.906	158.10597	-133.9	-2.3	-90.5	69.8	7.22543	0.967	-85.8	71.4	58.0	18.8	12.8	14.61016	26-27
28	2.818	20.924	161.99843	-143.1	-2.4	-88.6	68.3	7.30804	0.952	-81.9	71.5	58.4	22.9	11.9	13.97477	27-28

RA-VIII CAMERA FA

45

FEB. 20, 1965 9 HR 56 MIN 17 SEC 867 MS

TAB NO 45

ATLAS PHOTO NO 45

POD SEQUENCE NO 512

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				78.888		141.07108	1.356	20.065	1876.571	2.571	-44.649	73.954				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.918	22.092	155.84716	-107.4	-3.5	-92.6	72.6	7.28437	0.897	-90.0	72.6	47.3	26.2	25.2	0.	1-2
3	2.393	21.609	152.73844	-124.3	-3.0	-90.3	70.4	7.07214	0.925	-85.5	72.2	52.8	23.5	18.7	20.50176	2-3
4	2.411	22.126	158.79084	-118.1	-3.7	-90.2	70.9	7.38646	0.883	-85.1	72.7	47.5	28.5	24.5	15.66477	3-4
5	2.432	22.694	167.03237	-113.6	-4.5	-90.1	71.4	7.73819	0.838	-84.6	73.2	42.2	33.8	30.3	17.21085	4-5
6	1.916	22.650	163.81458	-104.5	-4.1	-92.7	73.1	7.62320	0.853	-90.0	73.2	41.9	31.9	31.1	15.68013	5-6
7	1.416	22.609	162.24498	-94.5	-3.8	-95.2	74.7	7.51220	0.866	-95.4	73.1	42.2	30.9	30.9	15.20610	6-7
8	1.440	22.061	154.46230	-95.5	-3.2	-95.0	74.2	7.18514	0.910	-94.9	72.6	47.5	25.1	25.1	16.62144	7-8
9	1.462	21.560	148.76067	-97.0	-2.6	-94.8	73.7	6.89176	0.952	-94.5	72.1	52.8	19.3	19.3	15.17509	8-9
10	1.921	21.583	150.01336	-111.9	-2.8	-92.6	72.0	6.98096	0.939	-90.0	72.1	52.6	20.7	19.3	13.91571	9-10
11	2.393	21.609	152.73844	-124.3	-3.0	-90.3	70.4	7.07214	0.925	-85.5	72.2	52.8	23.5	18.7	14.30525	10-11
12	2.810	21.152	152.21452	-142.6	-2.5	-88.5	68.4	6.86639	0.951	-81.9	71.7	58.4	23.0	12.1	18.71983	11-12
13	2.844	21.634	156.64525	-133.3	-3.2	-88.3	68.9	7.15916	0.910	-81.3	72.2	53.3	26.9	17.6	14.61421	12-13
14	2.883	22.160	162.98589	-126.4	-4.0	-88.0	69.4	7.48454	0.868	-80.5	72.7	48.1	31.4	23.2	15.96614	13-14
15	2.928	22.739	171.57211	-121.1	-4.8	-87.7	69.9	7.49495	0.823	-79.7	73.3	42.9	36.3	28.9	17.57549	14-15
16	2.979	23.383	182.80061	-117.1	-5.6	-87.3	70.4	8.26314	0.775	-78.6	73.9	37.9	41.4	34.4	19.52413	15-16
17	2.457	23.324	177.83797	-110.3	-5.2	-89.9	71.9	8.13586	0.791	-84.0	73.9	37.0	39.3	36.1	15.91453	16-17
18	1.915	23.267	174.27138	-102.3	-4.8	-92.7	73.6	8.00535	0.806	-90.0	73.8	36.7	37.6	36.9	16.51545	17-18
19	1.389	23.215	172.44889	-93.8	-4.4	-95.5	75.3	7.88031	0.819	-96.0	73.7	37.0	36.7	36.7	15.98376	18-19
20	0.372	23.168	172.25291	-85.1	-4.1	-98.2	76.0	7.75944	0.830	-101.8	73.7	37.9	36.6	35.5	15.52828	19-20
21	0.929	22.573	162.22700	-84.2	-3.5	-97.7	76.3	7.40448	0.877	-100.7	73.1	43.0	30.9	29.9	18.09755	20-21
22	0.974	22.033	154.54909	-83.0	-3.0	-97.4	75.8	7.08822	0.921	-99.8	72.5	48.2	25.1	24.2	16.41090	21-22
23	1.014	21.539	148.90146	-81.0	-2.5	-97.0	75.3	6.80411	0.963	-99.0	72.0	53.4	19.4	18.6	14.99944	22-23
24	1.052	21.085	144.99839	-77.6	-1.9	-96.7	71.7	6.52154	0.996	-98.4	71.6	58.5	13.9	13.0	13.80065	23-24
25	1.482	21.100	144.84377	-99.6	-2.0	-94.6	73.1	6.62645	0.993	-94.2	71.6	58.0	13.6	13.6	13.05652	24-25
26	1.924	21.117	146.00516	-119.2	-2.2	-92.6	71.5	6.70697	0.980	-90.0	71.6	57.9	15.5	13.6	13.71215	25-26
27	2.376	21.134	148.55392	-133.5	-2.3	-90.4	69.9	6.78879	0.966	-85.8	71.7	58.0	19.0	13.1	13.72891	26-27
28	2.810	21.152	152.21452	-142.6	-2.5	-88.5	68.4	6.86639	0.951	-81.9	71.7	58.4	23.0	12.1	13.13151	27-28

RA-VIII CAMERA FA

46

FEB. 20, 1965 9 HR 56 MIN 22 SEC 987 MS

TAB NO 46

ATLAS PHOTO NO 46

POD SEQUENCE NO 514

TRAJECTORY DATA						SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA						73.768	131.82523	1.435	20.341	1867.325	2.576	-44.474	73.961			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.968	22.260	145.91380	-107.5	-3.5	-92.6	72.5	6.82008	0.896	-90.0	72.8	47.3	26.4	25.3	0.	1-
3	2.411	21.807	142.96386	-124.1	-3.0	-90.3	70.5	6.61948	0.924	-85.5	72.4	52.8	23.7	18.9	19.19844	2-3
4	2.429	22.292	148.68227	-117.9	-3.8	-90.2	71.0	6.91620	0.881	-85.1	72.8	47.5	28.7	24.7	14.68523	3-4
5	2.449	22.825	156.44973	-113.6	-4.5	-90.1	71.5	7.24790	0.837	-84.6	73.4	42.2	33.9	30.5	16.14149	4-5
6	1.966	22.783	153.42245	-104.5	-4.2	-92.7	73.0	7.13959	0.851	-90.0	73.3	41.9	32.0	31.2	14.68881	5-6
7	1.497	22.745	151.93045	-94.6	-3.9	-95.3	74.6	7.03454	0.864	-95.4	73.3	42.2	31.0	31.0	14.24270	6-7
8	1.520	22.231	144.59755	-95.6	-3.3	-95.0	74.1	6.72622	0.909	-94.9	72.7	47.5	25.2	25.2	15.58398	7-8
9	1.540	21.762	139.21202	-97.2	-2.7	-94.8	73.6	6.44937	0.951	-94.5	72.3	52.8	19.5	19.5	14.22194	8-9
10	1.970	21.784	140.40213	-111.8	-2.9	-92.6	72.1	6.53369	0.938	-90.0	72.3	52.6	20.9	19.5	13.02492	9-10
11	2.411	21.807	142.96386	-124.1	-3.0	-90.3	70.5	6.61948	0.924	-85.5	72.4	52.8	23.7	18.9	13.39137	10-11
12	2.801	21.380	142.42222	-142.2	-2.5	-88.4	68.6	6.42440	0.950	-81.9	71.9	58.4	23.1	12.3	17.52020	11-12
13	2.834	21.831	146.62443	-133.0	-3.2	-88.2	69.1	6.70097	0.909	-81.3	72.4	53.3	27.0	17.8	13.69368	12-13
14	2.871	22.325	152.61430	-126.2	-4.0	-87.9	69.5	7.00810	0.866	-80.5	72.9	48.1	31.5	23.4	14.96888	13-14
15	2.913	22.868	160.70572	-121.0	-4.8	-87.6	70.0	7.35220	0.822	-79.7	73.4	42.9	36.4	29.0	16.48434	14-15
16	2.961	23.471	171.26843	-117.0	-5.6	-87.3	70.5	7.74177	0.775	-78.6	74.0	37.9	41.4	34.5	18.31530	15-16
17	2.472	23.416	166.61586	-110.3	-5.2	-89.9	72.0	7.62246	0.790	-84.1	74.0	37.0	39.4	36.2	14.91135	16-17
18	1.964	23.362	163.25998	-102.4	-4.8	-92.7	73.6	7.49951	0.805	-90.0	73.9	36.7	37.7	37.0	15.47572	17-18
19	1.472	23.313	161.52809	-93.9	-4.5	-95.5	75.1	7.38115	0.818	-96.0	73.8	37.0	36.8	36.8	14.97551	18-19
20	0.994	23.269	161.31976	-85.3	-4.1	-98.3	76.7	7.26658	0.829	-101.8	73.8	37.9	36.7	35.6	14.54381	19-20
21	1.041	22.710	151.88358	-84.5	-3.6	-97.8	76.2	6.93215	0.876	-100.7	73.2	43.0	31.0	30.0	16.96747	20-21
22	1.083	22.204	144.65207	-83.3	-3.1	-97.4	75.7	6.63414	0.920	-99.8	72.7	48.2	25.3	24.4	15.38300	21-22
23	1.122	21.742	139.31979	-81.5	-2.5	-97.1	75.2	6.36616	0.962	-99.0	72.2	53.4	19.6	18.8	14.05439	22-23
24	1.157	21.316	135.61950	-78.3	-2.0	-96.8	71.5	6.10480	0.997	-98.4	71.8	58.5	14.1	13.3	12.92425	23-24
25	1.560	21.331	135.49658	-99.8	-2.1	-94.7	73.1	6.19882	0.992	-94.2	71.8	58.0	13.9	13.8	12.21273	24-25
26	1.972	21.346	136.59911	-119.0	-2.2	-92.5	71.6	6.27488	0.979	-90.0	71.9	57.9	15.8	13.8	12.51050	25-26
27	2.396	21.363	138.99380	-133.0	-2.3	-90.4	70.0	6.35179	0.965	-85.8	71.9	58.0	19.2	13.3	12.84679	26-27
28	2.801	21.380	142.42222	-142.2	-2.5	-88.4	68.6	6.42440	0.950	-81.9	71.9	58.4	23.1	12.3	12.28752	27-28

RA-VIII CAMERA FA

47

FEB. 20, 1965 9 HR 56 MIN 28 SEC 107 MS

TAB NO 47

ATLAS PHOTO NO 47

POD SEQUENCE NO 516

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
					68.648		122.59024	1.515	20.620	1858.090	2.581	-44.297	73.969			
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.017	22.428	135.95889	-107.5	-3.5	-92.6	72.5	6.35478	0.894	-90.0	73.0	47.3	26.6	25.5	0.	1-2
3	2.430	22.006	133.17450	-123.8	-3.1	-90.3	70.6	6.16614	0.923	-85.5	72.6	52.8	23.8	19.1	17.89180	2-3
4	2.447	22.458	138.55118	-117.8	-3.8	-90.2	71.0	6.44489	0.880	-85.1	73.0	47.5	28.8	24.9	13.70122	3-4
5	2.466	22.956	145.83656	-113.5	-4.5	-90.0	71.5	6.75620	0.835	-84.6	73.5	42.2	34.1	30.6	15.06626	4-5
6	2.015	22.917	143.00100	-104.5	-4.2	-92.7	73.0	6.65462	0.850	-90.0	73.4	41.9	32.2	31.3	13.69455	5-6
7	1.577	22.821	141.50807	-94.8	-3.9	-95.3	74.5	6.55563	0.883	-95.4	73.4	42.2	31.2	31.2	14.27855	6-7
8	1.600	22.401	134.71303	-95.8	-3.3	-95.1	74.0	6.26638	0.907	-94.9	72.9	47.5	25.4	25.4	14.54119	7-8
9	1.619	21.963	129.65088	-97.4	-2.7	-94.9	73.6	6.00641	0.950	-94.5	72.5	52.8	19.7	19.7	13.26481	8-9
10	2.019	21.984	130.77688	-111.8	-2.9	-92.6	72.1	6.08577	0.937	-90.0	72.5	52.6	21.1	19.7	12.13279	9-10
11	2.430	22.006	133.17450	-123.8	-3.1	-90.3	70.6	6.16614	0.923	-85.5	72.6	52.8	23.8	19.1	12.47605	10-11
12	2.793	21.607	132.62302	-141.7	-2.5	-88.3	68.7	5.98212	0.949	-81.9	72.2	58.4	23.3	12.6	16.31914	11-12
13	2.824	22.028	136.58891	-132.7	-3.2	-88.1	69.2	6.24213	0.908	-81.3	72.6	53.3	27.1	18.0	12.77004	12-13
14	2.859	22.489	142.22005	-126.0	-4.0	-87.9	69.6	6.53064	0.865	-80.6	73.1	48.1	31.6	23.6	13.96704	13-14
15	2.899	22.996	149.80858	-120.9	-4.8	-87.6	70.1	6.85355	0.821	-79.7	73.6	42.9	36.5	29.2	17.09930	14-15
16	2.944	23.559	159.69734	-117.0	-5.6	-87.2	70.5	7.12866	0.774	-78.6	74.1	37.9	41.5	34.6	13.90500	15-16
17	2.488	23.508	155.35508	-110.3	-5.2	-89.9	72.0	7.10729	0.789	-84.1	74.1	37.0	39.4	36.3	13.96704	16-17
18	2.014	23.457	152.21131	-102.4	-4.9	-92.7	73.5	6.99196	0.804	-90.0	74.0	36.7	37.8	37.1	14.43232	17-18
19	1.555	23.411	150.57242	-94.1	-4.5	-95.6	75.0	6.88040	0.817	-96.0	73.9	37.0	36.9	36.9	13.96374	18-19
20	1.110	23.368	150.34518	-85.5	-4.2	-98.3	76.5	6.77194	0.828	-101.8	73.9	37.9	36.8	35.7	13.55640	19-20
21	1.154	22.847	141.51583	-84.7	-3.7	-97.9	76.0	6.45873	0.875	-100.7	73.3	43.0	31.1	30.2	15.83137	20-21
22	1.193	22.375	134.73786	-83.6	-3.1	-97.5	75.5	6.17929	0.919	-99.8	72.9	48.2	25.4	24.6	14.35015	21-22
23	1.229	21.944	129.72795	-81.9	-2.6	-97.1	75.0	5.92776	0.961	-99.0	72.4	53.4	19.8	19.0	13.10568	22-23
24	1.262	21.548	126.23742	-79.0	-2.0	-96.8	71.4	5.68730	0.998	-98.4	72.1	58.5	14.3	13.5	12.04543	23-24
25	1.637	21.561	126.14409	-100.0	-2.1	-94.7	73.1	5.77095	0.991	-94.2	72.1	58.0	14.1	14.0	11.36861	24-25
26	2.021	21.576	127.18664	-118.7	-2.2	-92.5	71.6	5.84248	0.978	-90.0	72.1	57.9	16.0	14.1	11.64911	25-26
27	2.416	21.592	129.42648	-132.6	-2.4	-90.4	70.1	5.91448	0.964	-85.8	72.1	58.0	19.4	13.5	11.96395	26-27
28	2.793	21.607	132.62302	-141.7	-2.5	-88.3	68.7	5.98212	0.949	-81.9	72.2	58.4	23.3	12.6	11.44304	27-28

RA-VIII CAMERA FA

48

FEB. 20, 1965 9 HR 56 MIN 33 SEC 227 MS

TAB NO 48

ATLAS PHOTO NO 48

POD SEQUENCE NO 518

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
					63.528		113.36641	1.596	20.902	1848.866	2.586	-44.118	73.977			
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.067	22.596	125.98057	-107.5	-3.6	-92.6	72.5	5.88839	0.893	-90.0	73.1	47.3	26.8	25.7	0.	1-2
3	2.449	22.205	123.36734	-123.6	-3.1	-90.2	70.7	5.71200	0.921	-85.5	72.8	52.8	24.0	19.3	16.58170	2-3
4	2.465	22.624	128.39433	-117.7	-3.8	-90.1	71.1	5.97240	0.879	-85.1	73.2	47.5	29.0	25.0	12.71240	3-4
5	2.483	23.086	135.18937	-113.5	-4.5	-90.0	71.5	6.26293	0.834	-84.6	73.6	42.2	34.2	30.8	13.98470	4-5
6	2.065	23.049	132.54823	-104.6	-4.2	-92.7	73.0	6.16819	0.849	-90.0	73.6	41.9	32.3	31.5	12.69677	5-6
7	1.660	23.016	131.21905	-94.9	-4.0	-95.3	74.4	6.07544	0.862	-95.4	73.5	42.2	31.3	31.3	12.30729	6-7
8	1.680	22.570	124.80811	-96.0	-3.4	-95.1	73.9	5.80560	0.906	-94.9	73.1	47.5	25.6	25.6	13.49301	7-8
9	1.698	22.164	120.07664	-97.5	-2.8	-94.9	73.5	5.56284	0.949	-94.6	72.7	52.8	19.9	19.9	12.30358	8-9
10	2.068	22.184	121.13583	-111.7	-2.9	-92.6	72.1	5.63711	0.936	-90.0	72.7	52.6	21.3	19.9	11.23911	9-10
11	2.449	22.205	123.36734	-123.6	-3.1	-90.2	70.7	5.71200	0.921	-85.5	72.8	52.8	24.0	19.3	11.55882	10-11
12	2.785	21.835	122.81293	-141.2	-2.5	-88.2	68.9	5.53939	0.948	-81.9	72.4	58.4	23.4	12.8	15.11622	11-12
13	2.814	22.225	126.53448	-132.4	-3.3	-88.0	69.3	5.78245	0.907	-81.3	72.8	53.3	27.3	18.3	11.84281	12-13
14	2.847	22.652	131.79864	-125.8	-4.0	-87.8	69.7	6.05196	0.864	-80.6	73.2	48.1	31.8	23.8	12.96010	13-14
15	2.884	23.123	138.87575	-120.8	-4.8	-87.5	70.2	6.35329	0.819	-79.7	73.7	42.9	36.6	29.3	14.28348	14-15
16	2.926	23.646	148.08189	-116.9	-5.6	-87.2	70.6	6.69355	0.773	-78.6	74.2	37.9	41.6	34.7	15.87541	15-16
17	2.503	23.598	144.05184	-110.3	-5.2	-89.9	72.0	6.59017	0.788	-84.1	74.1	37.0	39.5	36.4	12.89462	16-17
18	2.064	23.551	141.12324	-102.5	-4.9	-92.7	73.4	6.48260	0.803	-90.0	74.1	36.7	37.9	37.2	13.38460	17-18
19	1.639	23.507	139.58127	-94.2	-4.6	-95.6	74.9	6.37805	0.816	-96.0	74.0	37.0	37.0	37.0	12.94816	18-19
20	1.226	23.468	139.33995	-85.7	-4.3	-98.4	76.3	6.27595	0.828	-101.8	74.0	37.9	36.9	35.8	12.56600	19-20
21	1.266	22.984	131.12443	-85.0	-3.7	-97.9	75.8	5.98427	0.873	-100.7	73.5	43.0	31.2	30.3	14.68938	20-21
22	1.303	22.546	124.80699	-84.0	-3.2	-97.5	75.4	5.72370	0.918	-99.8	73.1	48.2	25.6	24.7	13.31250	21-22
23	1.336	22.146	120.12638	-82.4	-2.6	-97.2	74.9	5.48893	0.960	-99.0	72.7	53.4	20.0	19.2	12.15333	22-23
24	1.367	21.779	116.85247	-79.7	-2.0	-96.9	71.3	5.26906	0.999	-98.4	72.3	58.5	14.5	13.8	11.16424	23-24
25	1.714	21.792	116.78562	-100.2	-2.1	-94.7	73.0	5.34280	0.990	-94.2	72.3	58.0	14.4	14.3	10.52416	24-25
26	2.070	21.806	117.76541	-118.5	-2.2	-92.5	71.6	5.40969	0.977	-90.0	72.3	57.9	16.2	14.3	10.78688	25-26
27	2.435	21.820	119.84917	-132.2	-2.4	-90.3	70.2	5.47672	0.962	-85.8	72.4	58.0	19.6	13.8	11.07998	26-27
28	2.785	21.835	122.81293	-141.2	-2.5	-88.2	68.9	5.53939	0.948	-81.9	72.4	58.4	23.4	12.8	10.59749	27-28

RA-VIII CAMERA FA

49

FEB. 20, 1965 9 HR 56 MIN 38 SEC 347 MS

TAB NO 49

ATLAS PHOTO NO 49

POD SEQUENCE NO 520

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
PHOTO DATA					58.409		104.15430	1.678	21.187	1839.654	2.591	-43.938	73.986		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.116	22.764	115.97849	-107.5	-3.6	-92.6	72.5	5.42089	0.892	-90.0	73.3 47.3 26.9	25.8	0.	15.26811	1- 2
3	2.468	22.403	113.54144	-123.4	-3.1	-90.2	70.7	5.25699	0.920	-85.5	73.0 52.8 24.2	19.6	15.26811	2- 3	11.71865
4	2.482	22.790	118.21084	-117.6	-3.8	-90.1	71.1	5.49866	0.877	-85.1	73.3 47.5 29.1	25.2	11.71865	3- 4	12.89682
5	2.499	23.216	124.50740	-113.4	-4.5	-90.0	71.6	5.76805	0.833	-84.6	73.8 42.2 34.3	30.9	12.89682	4- 5	11.33492
6	2.114	23.182	122.06400	-104.6	-4.3	-92.7	72.9	5.68029	0.847	-90.0	73.7 41.9 32.5	31.6	11.69531	5- 6	12.43953
7	1.741	23.150	120.82205	-95.1	-4.0	-95.4	74.3	5.59400	0.861	-95.4	73.7 42.2 31.4	31.4	11.33492	6- 7	10.34379
8	1.760	22.740	114.88310	-96.1	-3.4	-95.1	73.9	5.34389	0.905	-94.9	73.3 47.5 25.7	25.7	12.43953	7- 8	11.33833
9	1.776	22.366	110.48942	-97.7	-2.8	-94.9	73.4	5.11868	0.947	-94.6	72.9 52.8 20.1	20.1	11.33833	8- 9	12.91129
10	2.117	22.384	111.47859	-111.7	-2.9	-92.6	72.1	5.18770	0.934	-90.0	72.9 52.6 21.5	20.1	12.91129	9-10	10.34379
11	2.468	22.403	113.54144	-123.4	-3.1	-90.2	70.7	5.25699	0.920	-85.5	73.0 52.8 24.2	19.6	10.34379	10-11	11.33833
12	2.776	22.062	112.99037	-140.7	-2.5	-88.2	69.1	5.09613	0.947	-81.9	72.6 58.4 23.5	13.1	13.91129	11-12	9.75059
13	2.804	22.422	116.45957	-132.1	-3.3	-88.0	69.5	5.32187	0.906	-81.3	73.0 53.3 27.4	18.5	10.91185	12-13	11.92868
14	2.834	22.816	121.34853	-120.6	-4.8	-87.7	69.9	5.57197	0.863	-80.6	73.4 48.1 31.9	23.9	11.94789	13-14	13.17304
15	2.868	23.250	127.90575	-116.8	-5.6	-87.1	70.7	5.85133	0.818	-79.7	73.8 42.9 36.7	29.4	13.17304	14-15	14.64357
16	2.908	23.732	136.42068	-116.8	-5.8	-87.1	70.7	6.16638	0.772	-78.6	74.3 37.9 41.7	34.8	14.64357	15-16	11.87986
17	2.518	23.688	132.70550	-110.3	-5.2	-89.9	72.0	6.07109	0.788	-84.1	74.2 37.0 39.6	36.5	11.87986	16-17	12.33239
18	2.113	23.644	129.99583	-102.6	-4.9	-92.8	73.4	5.97143	0.801	-90.0	74.2 36.7 38.0	37.1	12.33239	17-18	13.54184
19	1.722	23.604	128.55546	-94.3	-4.6	-95.6	74.8	5.87413	0.815	-96.0	74.1 37.0 37.1	37.1	13.54184	18-19	12.27017
20	1.751	23.567	128.30556	-94.0	-4.4	-95.6	74.8	5.73770	0.827	-101.8	74.1 37.0 37.1	37.1	12.27017	19-20	11.9747
21	1.379	23.121	120.71052	-85.3	-3.8	-98.0	75.7	5.50880	0.872	-100.7	73.6 43.0 31.4	30.5	11.9747	20-21	12.27017
22	1.413	22.717	114.86035	-84.3	-3.2	-97.6	75.2	5.26741	0.916	-99.8	73.2 48.2 25.7	24.9	12.27017	21-22	11.9747
23	1.444	22.349	110.51573	-82.8	-2.6	-97.2	74.8	5.04970	0.959	-99.0	72.9 53.4 20.1	19.4	11.9747	22-23	10.28076
24	1.472	22.010	107.46513	-80.3	-2.1	-96.9	71.2	4.85012	1.000	-98.4	72.5 58.5 14.7	14.0	10.28076	23-24	9.67939
25	1.791	22.022	107.42120	-100.4	-2.2	-94.7	73.0	4.91439	0.989	-94.2	72.5 58.0 14.6	14.5	9.67939	24-25	9.92372
26	2.119	22.035	108.33552	-118.3	-2.3	-92.5	71.7	4.97650	0.976	-90.0	72.6 57.9 16.5	14.5	9.92372	25-26	10.19471
27	2.455	22.049	110.26076	-131.8	-2.4	-90.3	70.3	5.03847	0.961	-85.8	72.6 58.0 19.7	14.0	10.19471	26-27	9.75059
28	2.776	22.062	112.99037	-140.7	-2.5	-88.2	69.1	5.09613	0.947	-81.9	72.6 58.4 23.5	13.1	9.75059	27-28	

RA-VIII CAMERA FA

50

FEB. 20, 1965 9 HR 56 MIN 43 SEC 467 MS

TAB NO 50

ATLAS PHOTO NO 50

POD SEQUENCE NO 522

TRAJECTORY DATA						SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
PHOTO DATA						53.289	94.95375	1.760	21.474	1830.454	2.597	-43.756	73.995		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.164	22.931	105.95150	-107.5	-3.6	-92.6	72.5	4.95222	0.890	-90.0	73.5 47.3 27.1	26.0	0.	13.95097	1- 2
3	2.486	22.601	103.69497	-123.2	-3.1	-90.1	70.8	4.80104	0.919	-85.5	73.2 52.8 24.4	19.8	13.95097	2- 3	10.71984
4	2.499	22.955	107.99894	-117.5	-3.8	-90.1	71.2	5.02362	0.876	-85.1	73.5 47.5 29.3	25.4	10.71984	3- 4	11.80245
5	2.515	23.345	113.78891	-113.3	-4.5	-90.0	71.6	5.27148	0.832	-84.6	73.9 42.2 34.5	31.0	11.80245	4- 5	10.68992
6	2.163	23.313	111.54719	-104.6	-4.3	-92.7	72.9	5.19089	0.846	-90.0	73.8 41.9 32.6	31.7	10.68992	5- 6	10.35930
7	1.822	23.284	110.39714	-95.2	-4.1	-95.4	74.2	5.11128	0.859	-95.4	73.8 42.2 31.6	31.6	10.35930	6- 7	11.38076
8	1.839	22.909	104.93727	-96.3	-3.4	-95.1	73.8	4.88122	0.903	-94.9	73.4 47.5 25.9	25.9	11.38076	7- 8	10.36903
9	1.854	22.567	100.88841	-97.9	-2.8	-94.9	73.4	4.67387	0.946	-94.6	73.1 52.6 20.3	20.3	10.36903	8- 9	9.44671
10	2.165	22.583	101.80383	-111.6	-3.0	-92.5	72.1	4.73748	0.933	-90.0	73.1 52.6 21.7	20.3	9.44671	9-10	12.70410
11	2.486	22.601	103.69497	-123.2	-3.1	-90.1	70.8	4.80104	0.919	-85.5	73.2 52.8 24.4	19.8	12.70410	10-11	9.97691
12	2.767	22.290	103.15304	-140.2	-2.5	-88.1	69.2	4.65225	0.946	-81.9	72.9 58.4 23.7	13.3	9.97691	11-12	10.93022
13	2.793	22.619	106.36189	-131.7	-3.3	-87.9	69.6	4.86028	0.904	-81.3	73.2 53.3 27.6	18.7	9.97691	12-13	12.05569
14	2.821	22.979	110.86742	-125.4	-4.0	-87.7	70.0	5.09059	0.862	-80.6	73.5 48.1 32.0	24.1	10.93022	13-14	13.40358
15	2.853	23.376	116.89629	-120.5	-4.8	-87.4	70.4	5.34759	0.817	-79.7	73.9 42.9 36.8	29.6	12.05569	14-15	10.86038
16	2.889	23.818	124.71140	-116.7	-5.6	-87.1	70.8	5.63705	0.771	-78.6	74.4 37.9 41.7	34.9	13.40358	15-16	11.27542
17	2.532	23.777	121.31440	-110.2	-5.3	-89.8	72.0	5.54996	0.786	-84.1	74.3 37.0 39.7	36.6	11.27542	16-17	10.90520
18	2.162	23.737	118.82816	-102.6	-5.0	-92.8	73.4	5.45843	0.800	-90.0	74.3 36.7 38.1	37.4	11.27542	17-18	10.90520
19	1.804	23.700	117.49465	-94.5	-4.7	-95.7	74.7	5.36864	0.814	-96.0	74.2 37.0 37.2	37.2	10.90520	18-19	10.57666
20	1.457	23.665	117.24234	-86.2	-4.4	-98.5	76.0	5.28020	0.826	-101.8	74.2 37.9 37.0	36.0	10.57666	19-20	11.22329
21	1.491	23.257	110.27413	-85.5	-3.9	-98.0	75.5	5.03235	0.871	-100.7	73.8 43.0 31.5	30.6	11.22329	20-21	10.23813
22	1.522	22.888	104.89778	-84.6	-3.3	-97.6	75.1	4.81041	0.915	-99.8	73.4 48.2 25.9	25.1	9.39495	21-22	9.39495
23	1.551	22.551	100.89569	-83.2	-2.7	-97.3	74.7	4.61005	0.958	-99.0	73.1 53.4 20.3	19.6	8.83424	22-23	8.83424
24	1.576	22.242	98.07492	-80.9	-2.1	-97.0	74.3	4.42795	0.999	-98.4	72.8 58.5 14.9	14.2	9.05951	23-24	9.05951
25	1.868	22.253	98.04988	-100.6	-2.2	-94.7	73.0	4.48566	0.988	-94.2	72.8 58.0 14.8	14.7	8.83424	24-25	8.83424
26	2.167	22.265	98.89544	-118.1	-2.3	-92.5	71.7	4.54286	0.974	-90.0	72.8 57.9 16.7	14.8	9.05951	25-26	9.05951
27	2.474	22.277	100.65947	-131.3	-2.4	-90.2	70.4	4.59966	0.960	-85.8	72.8 58.0 19.9	14.3	9.30790	26-27	9.30790
28	2.767	22.290	103.15304	-140.2	-2.5	-88.1	69.2	4.65225	0.946	-81.9	72.9 58.4 23.7	13.3	8.90205	27-28	

RA-VIII CAMERA FA

51

FEB. 20, 1965 9 HR 56 MIN 48 SEC 587 MS										TAB NO	51	ATLAS PHOTO NO	51	POD SEQUENCE NO	524			
TRAJECTORY DATA										SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ
										48.169		85.76569	1.844	21.765	1821.266	2.602	-43.573	74.004
PHOTO DATA																		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT		
2	2.213	23.098	95.89976	-107.5	-3.7	-92.6	72.5	4.48240	0.889	-90.0	73.6	47.3	27.3	26.2	0.	1-2		
3	2.504	22.799	93.83000	-122.9	-3.1	-90.1	70.9	4.34425	0.917	-85.5	73.3	52.8	24.5	20.0	12.63007	2-3		
4	2.516	23.120	97.76027	-117.3	-3.8	-90.0	71.3	4.54733	0.875	-85.1	73.7	47.5	29.4	25.6	9.71591	3-4		
5	2.530	23.473	103.03516	-113.3	-4.5	-89.9	71.7	4.77327	0.830	-84.6	74.0	42.2	34.6	31.2	10.70149	4-5		
6	2.212	23.445	100.99748	-104.7	-4.3	-92.7	72.9	4.69995	0.845	-90.0	74.0	41.9	32.7	31.9	9.68093	5-6		
7	1.704	23.418	99.94247	-95.4	-4.1	-95.4	74.2	4.62718	0.858	-95.4	73.9	42.2	31.1	31.1	9.38045	6-7		
8	1.918	23.078	94.96949	-96.4	-3.5	-95.2	73.8	4.41754	0.902	-94.9	73.6	47.5	26.1	26.1	10.31626	7-8		
9	1.932	22.768	91.27295	-98.0	-2.8	-94.9	73.4	4.22840	0.945	-94.6	73.3	52.8	20.5	20.5	9.39532	8-9		
10	2.214	22.783	92.11223	-111.5	-3.0	-92.5	72.1	4.28648	0.932	-90.0	73.3	52.8	21.9	20.5	8.54796	9-10		
11	2.504	22.799	93.83000	-122.9	-3.1	-90.1	70.9	4.34425	0.917	-85.5	73.3	52.8	24.5	20.0	8.79438	10-11		
12	2.758	22.517	93.30457	-139.8	-2.5	-88.0	69.4	4.20790	0.945	-81.9	73.1	58.4	23.8	13.6	11.49489	11-12		
13	2.781	22.815	96.24484	-131.4	-3.3	-87.8	69.8	4.39783	0.903	-81.3	73.4	53.3	27.7	18.9	9.03819	12-13		
14	2.807	23.142	100.35846	-125.2	-4.0	-87.6	70.1	4.60795	0.860	-80.6	73.7	48.1	32.1	24.3	9.90720	13-14		
15	2.836	23.502	105.85022	-120.4	-4.8	-87.4	70.5	4.84219	0.816	-79.7	74.1	42.9	36.9	29.7	10.93149	14-15		
16	2.869	23.902	112.95672	-116.6	-5.5	-87.1	70.9	5.10567	0.770	-78.6	74.5	37.9	41.8	35.0	12.15552	15-16		
17	2.547	23.865	109.87934	-110.2	-5.3	-89.8	72.1	5.02682	0.785	-84.1	74.4	37.0	39.8	36.7	9.83689	16-17		
18	2.211	23.829	107.61916	-102.6	-5.0	-92.8	73.3	4.94353	0.799	-90.0	74.4	36.7	38.2	37.5	10.21405	17-18		
19	1.887	23.795	106.39616	-94.6	-4.7	-95.7	74.6	4.86144	0.813	-96.0	74.3	37.0	37.3	37.3	9.87769	18-19		
20	1.572	23.763	106.14599	-86.4	-4.5	-98.6	75.8	4.78025	0.825	-101.8	74.3	37.9	37.1	36.1	9.56797	19-20		
21	1.604	23.393	99.81195	-85.8	-3.9	-98.1	75.4	4.55476	0.870	-100.7	73.9	43.0	31.6	30.7	11.22960	20-21		
22	1.632	23.059	94.91673	-84.9	-3.3	-97.7	75.0	4.35258	0.914	-99.8	73.6	48.2	26.0	25.3	10.17120	21-22		
23	1.658	22.753	91.26436	-83.6	-2.7	-97.3	74.6	4.16991	0.957	-99.0	73.3	53.4	20.5	19.8	9.27482	22-23		
24	1.681	22.473	88.68052	-81.5	-2.1	-97.0	74.2	4.00375	0.998	-98.4	73.0	58.5	15.1	14.5	8.50648	23-24		
25	1.945	22.484	88.67153	-100.7	-2.2	-94.8	73.0	4.05661	0.986	-94.2	73.0	58.0	15.1	15.0	7.98861	24-25		
26	2.215	22.494	89.44619	-117.8	-2.3	-92.5	71.8	4.10879	0.973	-90.0	73.0	57.9	16.9	15.0	8.19436	25-26		
27	2.493	22.506	91.04763	-130.9	-2.4	-90.2	70.5	4.16037	0.959	-85.8	73.1	58.0	20.1	14.5	8.41994	26-27		
28	2.758	22.517	93.30457	-139.8	-2.5	-88.0	69.4	4.20790	0.945	-81.9	73.1	58.4	23.8	13.6	8.05247	27-28		

RA-VIII CAMERA FA

52

FEB. 20, 1965 9 HR 56 MIN 53 SEC 707 MS										TAB NO	52	ATLAS PHOTO NO	52	POD SEQUENCE NO	526			
TRAJECTORY DATA										SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ
										43.049		76.59029	1.928	22.058	1812.090	2.607	-43.388	74.014
PHOTO DATA																		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-P		
2	2.262	23.265	85.82257	-107.5	-3.7	-92.6	72.5	4.01139	0.887	-90.0	73.8	47.3	27.5	26.4	0.	1-2		
3	2.522	22.997	83.94623	-122.7	-3.1	-90.1	71.0	3.88659	0.916	-85.5	73.5	52.8	24.7	20.2	11.30528	2-3		
4	2.533	23.284	87.49451	-117.2	-3.8	-90.0	71.4	4.06979	0.873	-85.1	73.8	47.5	29.6	25.7	8.70679	3-4		
5	2.546	23.601	92.24566	-113.2	-4.6	-89.9	71.7	4.27342	0.829	-84.6	74.2	42.2	34.7	31.3	9.59382	4-5		
6	2.261	23.575	90.41398	-104.7	-4.4	-92.7	72.9	4.20744	0.843	-90.0	74.1	41.9	32.9	32.0	8.66839	5-6		
7	1.985	23.551	89.45686	-95.5	-4.2	-95.4	74.1	4.14167	0.857	-95.4	74.1	42.2	31.9	31.9	8.39831	6-7		
8	1.998	23.246	84.97871	-96.6	-3.5	-95.2	73.7	3.95278	0.901	-95.0	73.8	47.5	26.3	26.3	9.24578	7-8		
9	2.010	22.969	81.64228	-98.2	-2.9	-95.0	73.3	3.78223	0.943	-94.6	73.5	52.8	20.7	20.7	8.41705	8-9		
10	2.262	22.982	82.40328	-111.5	-3.0	-92.5	72.2	3.83466	0.930	-90.0	73.5	52.6	22.1	20.7	7.64749	9-10		
11	2.522	22.997	83.94623	-122.7	-3.1	-90.1	71.0	3.88659	0.916	-85.5	73.5	52.8	24.7	20.2	7.86892	10-11		
12	2.749	22.745	83.44510	-139.3	-2.5	-87.9	69.6	3.76309	0.944	-81.9	73.3	58.4	23.9	13.8	10.28360	11-12		
13	2.770	23.011	86.10847	-131.1	-3.3	-87.8	69.9	3.93452	0.902	-81.3	73.6	53.3	27.8	19.1	8.09558	12-13		
14	2.794	23.304	89.82164	-125.0	-4.0	-87.5	70.3	4.12405	0.859	-80.6	73.9	48.1	32.3	24.5	8.87880	13-14		
15	2.820	23.627	94.76748	-120.2	-4.8	-87.3	70.6	4.33513	0.815	-79.7	74.2	42.9	37.0	29.9	9.80040	14-15		
16	2.850	23.986	101.15644	-116.6	-5.5	-87.0	71.0	4.57224	0.770	-78.6	74.5	37.9	41.9	35.1	10.89925	15-16		
17	2.561	23.953	98.39971	-110.2	-5.3	-89.8	72.1	4.50163	0.784	-84.1	74.5	37.0	39.9	36.8	8.80947	16-17		
18	2.260	23.920	96.36785	-102.7	-5.0	-92.8	73.0	4.42668	0.798	-90.0	74.5	36.7	38.3	37.6	9.14831	17-18		
19	1.970	23.889	95.25858	-94.7	-4.8	-95.7	74.5	4.35247	0.812	-96.0	74.4	37.0	37.4	37.4	8.84611	18-19		
20	1.688	23.860	95.01472	-86.6	-4.6	-98.6	75.6	4.27876	0.824	-101.8	74.4	37.9	37.2	36.2	8.57409	19-20		
21	1.716	23.529	89.32245	-86.0	-4.0	-98.2	75.2	4.07594	0.869	-100.7	74.0	43.0	31.7	30.9	10.06381	20-21		
22	1.742	23.229	84.91591	-85.2	-3.4	-97.8	74.9	3.89387	0.913	-99.8	73.8	48.2	26.2	25.5	9.11365	21-22		
23	1.765	22.956	81.62067	-84.0	-2.8	-97.4	74.5	3.72921	0.956	-99.0	73.5	53.4	20.7	20.0	8.30734	22-23		
24	1.786	22.705	79.28096	-82.1	-2.2	-97.1	74.1	3.57933	0.997	-98.4	73.2	58.5	15.3	14.7	7.61518	23-24		
25	2.021	22.714	79.28547	-100.9	-2.2	-94.8	73.0	3.62720	0.985	-94.2	73.2	58.0	15.3	15.2	7.14243	24-25		
26	2.263	22.724	79.98733	-117.6	-2.3	-92.4	71.8	3.67427	0.972	-90.0	73.3	57.9	17.1	15.2	7.32826	25-26		
27	2.512	22.734	81.42507	-130.5	-2.4	-90.1	70.6	3.72061	0.958	-85.8	73.3	58.0	20.3	14.7	7.53086	26-27		
28	2.749	22.745	83.44510	-139.3	-2.5	-87.9	69.6	3.76309	0.944	-81.9	73.3	58.4	23.9	13.8	7.20195	27-28		

RA-VIII CAMERA FA

53

FEB. 20, 1965 9 HR 56 MIN 58 SEC 827 MS

TAB NO 53

ATLAS PHOTO NO 53

POD SEQUENCE NO 528

TRAJECTORY DATA				SEC TO IMPACT				ALT	LAT	LON	R	V	PTH	AZ		
PHOTO DATA				37.929				67.42780	2.013	22.355	1802.928	2.612	-43.201	74.025		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.310	23.431	75.71914	-107.5	-3.7	-92.6	72.5	3.53915	0.886	-90.0	74.0	47.3	27.6	26.5	0.	1-
3	2.540	23.194	74.04301	-122.5	-3.2	-90.0	71.1	3.42805	0.915	-85.5	73.7	52.8	24.9	20.4	9.97647	2-3
4	2.550	23.448	77.20087	-117.1	-3.9	-89.9	71.4	3.59096	0.872	-85.1	74.0	47.5	29.8	25.9	7.69232	3-4
5	2.561	23.728	81.41956	-113.1	-4.6	-89.9	71.8	3.77187	0.828	-84.6	74.3	42.2	34.8	31.4	8.47932	4-5
6	2.310	23.706	79.79582	-104.7	-4.4	-92.7	72.9	3.71332	0.842	-90.0	74.2	41.9	33.0	32.2	7.65222	5-6
7	2.066	23.684	78.93936	-95.6	-4.2	-95.5	74.0	3.65469	0.855	-95.4	74.2	42.2	32.0	32.0	7.41282	6-7
8	2.078	23.415	74.96411	-96.8	-3.6	-95.2	73.6	3.48693	0.899	-95.0	73.9	47.5	26.4	26.4	8.16923	7-8
9	2.089	23.169	71.99557	-98.4	-2.9	-95.0	73.3	3.35532	0.942	-94.6	73.7	52.8	20.9	20.9	7.43408	8-9
10	2.311	23.181	72.67618	-111.4	-3.0	-92.5	72.2	3.38201	0.929	-90.0	73.7	52.6	22.4	20.9	6.74527	9-10
11	2.540	23.194	74.04301	-122.5	-3.2	-90.0	71.1	3.42805	0.915	-85.5	73.7	52.8	24.9	20.4	6.94151	10-11
12	2.740	22.972	73.57409	-138.8	-2.5	-87.9	69.7	3.31779	0.943	-81.9	73.5	58.4	24.1	14.1	9.07013	11-12
13	2.759	23.207	75.95216	-130.8	-3.3	-87.7	70.0	3.47034	0.901	-81.3	73.8	53.3	28.0	19.3	7.14902	12-13
14	2.780	23.466	79.25627	-124.8	-4.0	-87.5	70.4	3.63887	0.858	-80.6	74.0	48.1	32.4	24.7	7.84488	13-14
15	2.803	23.751	83.64732	-120.1	-4.8	-87.2	70.7	3.62637	0.814	-79.7	74.3	42.9	37.1	30.0	8.66229	14-15
16	2.830	24.068	89.30981	-116.5	-5.5	-87.0	71.1	4.03674	0.769	-78.6	74.6	37.9	41.9	35.2	9.63476	15-16
17	2.574	24.039	86.87462	-110.2	-5.3	-89.8	72.1	3.97438	0.783	-84.1	74.6	37.0	40.0	36.9	7.77813	16-17
18	2.309	24.010	85.07326	-102.7	-5.1	-92.8	73.2	3.90785	0.797	-90.0	74.6	36.7	38.4	37.7	8.07814	17-18
19	2.053	23.982	84.08094	-94.9	-4.8	-95.7	74.3	3.84168	0.810	-96.0	74.5	37.0	37.5	37.5	7.81037	18-19
20	1.854	23.957	83.09122	-98.0	-4.0	-98.2	75.1	3.71570	0.863	-100.7	74.5	37.9	37.5	36.0	7.36113	19-20
21	1.829	23.664	78.80470	-86.3	-4.0	-98.2	75.1	3.59587	0.868	-100.7	74.2	43.0	31.8	31.0	8.89133	20-21
22	1.852	23.399	74.89445	-85.5	-3.4	-97.8	74.7	3.43424	0.912	-99.8	73.9	48.2	26.3	25.7	8.05052	21-22
23	1.872	23.158	71.96376	-84.4	-2.8	-97.4	74.4	3.28793	0.954	-99.0	73.7	53.4	20.9	20.3	7.33559	22-23
24	1.891	22.936	69.87552	-82.7	-2.2	-97.1	74.0	3.15466	0.997	-98.4	73.5	58.5	15.5	15.0	6.72092	23-24
25	2.098	22.945	69.89096	-101.0	-2.3	-94.8	72.9	3.19741	0.984	-94.2	73.5	58.0	15.6	15.4	6.29563	24-25
26	2.312	22.953	70.51823	-117.4	-2.4	-92.4	71.8	3.23930	0.971	-90.0	73.5	57.9	17.4	15.5	6.46115	25-26
27	2.531	22.963	71.79119	-130.1	-2.4	-90.1	70.7	3.28034	0.957	-85.8	73.5	58.0	20.5	15.0	6.64062	26-27
28	2.740	22.972	73.57409	-138.8	-2.5	-87.9	69.7	3.31779	0.943	-81.9	73.5	58.4	24.1	14.1	6.35044	27-28

RA-VIII CAMERA FA

54

FEB. 20, 1965 9 HR 57 MIN 3 SEC 947 MS

TAB NO 54

ATLAS PHOTO NO 54

POD SEQUENCE NO 530

TRAJECTORY DATA				SEC TO IMPACT				ALT	LAT	LON	R	V	PTH	AZ		
PHOTO DATA				32.809				58.27890	2.098	22.654	1793.779	2.618	-43.012	74.036		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.359	23.597	65.58913	-107.5	-3.7	-92.6	72.5	3.06567	0.885	-90.0	74.1	47.3	27.8	26.7	0.	1-2
3	2.556	23.392	64.11927	-122.3	-3.2	-90.0	71.1	2.96857	0.913	-85.5	73.9	52.8	25.1	20.6	8.64363	2-3
4	2.566	23.612	66.87834	-117.0	-3.9	-89.9	71.5	3.11079	0.871	-85.1	74.2	47.5	29.9	26.1	6.67243	3-4
5	2.577	23.855	70.55594	-113.1	-4.6	-89.8	71.8	3.26859	0.827	-84.6	74.4	42.2	35.0	31.6	7.35790	4-5
6	2.358	23.835	69.14274	-104.8	-4.4	-92.7	72.8	3.21757	0.841	-90.0	74.4	41.9	33.2	32.3	6.63221	5-6
7	2.147	23.816	68.39043	-95.8	-4.3	-95.5	73.9	3.16626	0.854	-95.4	74.4	42.2	32.1	32.1	6.42389	6-7
8	2.157	23.582	64.92598	-96.9	-3.6	-95.2	73.6	3.01999	0.898	-95.0	74.1	47.5	26.6	26.6	7.08667	7-8
9	2.167	23.370	62.33301	-98.5	-3.0	-95.0	73.2	2.88767	0.941	-94.6	73.9	52.8	21.1	21.1	6.44644	8-9
10	2.359	23.380	62.93053	-111.3	-3.1	-92.5	72.2	2.92849	0.928	-90.0	73.9	52.6	22.6	21.1	5.84120	9-10
11	2.558	23.392	64.11927	-122.3	-3.2	-90.0	71.1	2.96857	0.913	-85.5	73.9	52.8	25.1	20.6	6.01193	10-11
12	2.731	23.199	63.68984	-138.4	-2.5	-87.8	69.8	2.87194	0.942	-81.9	73.8	58.4	24.2	14.3	7.85429	11-12
13	2.747	23.403	65.77428	-130.5	-3.3	-87.6	70.2	3.00520	0.900	-81.3	74.0	53.3	28.1	19.5	6.19832	12-13
14	2.766	23.627	68.66067	-124.6	-4.0	-87.4	70.5	3.15232	0.857	-80.6	74.2	48.1	32.5	24.8	6.80522	13-14
15	2.786	23.875	72.48802	-120.0	-4.8	-87.2	70.8	3.31585	0.813	-79.7	74.4	42.9	37.2	30.1	7.51700	14-15
16	2.809	24.150	77.41509	-116.4	-5.5	-86.9	71.2	3.49907	0.768	-78.6	74.7	37.9	42.0	35.3	8.36188	15-16
17	2.588	24.125	75.30319	-110.1	-5.3	-89.8	72.1	3.44500	0.782	-84.1	74.7	37.0	40.1	37.0	6.74248	16-17
18	2.358	24.099	73.73529	-102.8	-5.1	-92.8	73.2	3.38703	0.796	-90.0	74.6	36.7	38.5	37.8	7.00331	17-18
19	2.136	24.075	72.86391	-95.0	-4.9	-95.8	74.2	3.32911	0.809	-96.0	74.6	37.0	37.6	37.6	6.77039	18-19
20	1.921	24.052	72.64586	-87.0	-4.7	-98.7	75.3	3.27114	0.822	-101.8	74.6	37.9	37.4	36.4	6.55793	19-20
21	1.942	23.799	68.25985	-86.5	-4.1	-98.3	74.9	3.11460	0.867	-100.7	74.3	43.0	32.0	31.2	7.71243	20-21
22	1.962	23.569	64.85325	-85.8	-3.5	-97.9	74.6	2.97373	0.910	-99.8	74.1	48.2	26.5	25.8	6.98200	21-22
23	1.979	23.359	62.29441	-84.8	-2.9	-97.5	74.3	2.84610	0.953	-99.0	73.9	53.4	21.0	20.5	6.35964	22-23
24	1.996	23.168	60.46476	-83.2	-2.2	-97.2	73.9	2.72976	0.995	-98.4	73.7	58.5	15.7	15.2	5.82380	23-24
25	2.175	23.175	60.48806	-101.2	-2.3	-94.8	72.9	2.76724	0.983	-94.2	73.7	58.0	15.8	15.7	5.44822	24-25
26	2.360	23.183	61.03839	-117.2	-2.4	-92.4	71.9	2.80382	0.970	-90.0	73.7	57.9	17.6	15.7	5.59296	25-26
27	2.549	23.191	62.14490	-129.7	-2.5	-90.0	70.8	2.83952	0.956	-85.8	73.7	58.0	20.7	15.2	5.74902	26-27
28	2.731	23.199	63.68984	-138.4	-2.5	-87.8	69.8	2.87194	0.942	-81.9	73.8	58.4	24.2	14.3	5.49767	27-28

RA-VIII CAMERA FA

55

FEB. 20, 1965 9 HR 57 MIN 9 SEC 67 MS										TAB NO 55	ATLAS PHOTO NO 55	POD SEQUENCE NO 532					
TRAJECTORY DATA										SEC TO IMPACT 27.689	ALT 49.14380	LAT 2.185	LON 22.957	R 1784.644	V 2.623	PTH -42.821	AZ 74.048
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.407	23.762	55.43107	-107.5	-3.8	-92.6	72.5	2.59087	0.883	-90.0	74.3	47.3	28.0	26.9	0.	1-2	
3	2.575	23.589	54.17363	-122.0	-3.2	-89.9	71.2	2.50808	0.912	-85.5	74.1	52.8	25.3	20.8	7.30657	2-3	
4	2.583	23.775	56.52530	-116.8	-3.9	-89.9	71.5	2.62921	0.869	-85.1	74.3	47.5	30.1	26.2	5.64685	3-4	
5	2.591	23.981	59.65288	-113.0	-4.6	-89.8	71.8	2.76348	0.825	-84.6	74.5	42.2	35.1	31.7	6.22929	4-5	
6	2.407	23.964	58.45308	-104.8	-4.4	-92.7	72.8	2.72012	0.839	-90.0	74.5	41.9	33.3	32.4	5.60817	5-6	
7	2.228	23.948	57.80864	-95.9	-4.3	-95.5	73.8	2.67633	0.853	-95.4	74.5	42.2	32.3	32.3	5.43134	6-7	
8	2.237	23.750	54.86304	-97.1	-3.6	-95.3	73.5	2.55190	0.896	-95.0	74.3	47.5	26.8	26.8	5.99789	7-8	
9	2.245	23.570	52.65348	-98.7	-3.0	-95.0	73.2	2.43925	0.939	-94.6	74.1	52.8	21.3	21.3	5.45395	8-9	
10	2.408	23.579	53.16509	-111.3	-3.1	-92.5	72.2	2.47405	0.926	-90.0	74.1	52.8	22.8	21.3	5.93516	9-10	
11	2.575	23.589	54.17363	-122.0	-3.2	-89.9	71.2	2.50808	0.912	-85.5	74.1	52.8	25.3	20.8	5.08005	10-11	
12	2.721	23.426	53.79101	-137.9	-2.6	-87.7	70.0	2.42547	0.941	-81.9	74.0	58.4	24.3	14.5	6.63589	11-12	
13	2.735	23.598	55.57324	-130.2	-3.3	-87.5	70.3	2.53903	0.899	-81.3	74.2	53.3	28.3	19.7	5.24323	12-13	
14	2.751	23.788	58.03303	-124.4	-4.0	-87.4	70.6	2.66432	0.856	-80.6	74.3	48.1	32.6	25.0	5.75961	13-14	
15	2.768	23.998	61.28756	-119.9	-4.8	-87.1	70.9	2.80345	0.812	-79.7	74.6	42.9	37.3	30.3	6.36422	14-15	
16	2.788	24.231	65.46996	-116.3	-5.5	-86.9	71.2	2.95913	0.767	-78.6	74.8	37.9	42.1	35.4	7.08024	15-16	
17	2.801	24.209	63.68328	-110.1	-5.3	-89.7	72.2	2.91340	0.781	-84.1	74.8	37.0	40.2	37.1	5.70230	16-17	
18	2.407	24.188	62.35208	-102.8	-5.1	-92.8	73.1	2.86413	0.795	-90.0	74.7	36.7	38.6	37.9	5.92358	17-18	
19	2.219	24.167	61.60581	-95.1	-4.9	-95.8	74.1	2.81469	0.808	-96.0	74.7	37.0	37.7	37.7	5.72597	18-19	
20	2.037	24.148	61.40825	-87.2	-4.8	-98.8	75.1	2.76500	0.821	-101.8	74.7	37.9	37.4	36.6	5.54453	19-20	
21	2.055	23.933	57.68657	-86.8	-4.2	-98.3	74.8	2.63206	0.866	-100.7	74.5	43.0	32.1	31.3	6.52692	20-21	
22	2.072	23.738	54.79123	-86.1	-3.5	-97.9	74.5	2.51229	0.909	-99.8	74.3	48.2	26.6	26.0	5.90786	21-22	
23	2.087	23.561	52.61162	-85.2	-2.9	-97.5	74.2	2.40367	0.952	-99.0	74.1	53.4	21.2	20.7	5.37935	22-23	
24	2.100	23.399	51.04784	-83.8	-2.3	-97.2	73.9	2.30459	0.994	-98.4	73.9	58.5	15.9	15.4	4.92362	23-24	
25	2.252	23.405	51.07582	-101.3	-2.3	-94.8	72.9	2.33664	0.982	-94.2	73.9	58.0	16.0	15.9	4.60012	24-25	
26	2.408	23.412	51.54669	-117.0	-2.4	-92.4	71.9	2.36781	0.968	-90.0	74.0	57.9	17.8	15.9	4.72355	25-26	
27	2.568	23.419	52.48500	-129.3	-2.5	-90.0	70.9	2.39810	0.954	-85.8	74.0	58.0	20.9	15.4	4.85595	26-27	
28	2.721	23.426	53.79101	-137.9	-2.6	-87.7	70.0	2.42547	0.941	-81.9	74.0	58.4	24.3	14.5	4.64349	27-28	

RA-VIII CAMERA FA

56

FEB. 20, 1965 9 HR 57 MIN 14 SEC 187 MS										TAB NO 56	ATLAS PHOTO NO 56	POD SEQUENCE NO 534				
TRAJECTORY DATA				SEC TO IMPACT 22.569				ALT 40.02290	LAT 2.272	LON 23.263	R 1775.523	V 2.628	PTH -42.629	AZ 74.060		
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.456	23.927	45.24455	-107.5	-3.8	-92.6	72.5	2.11475	0.882	-90.0	74.5	47.3	28.1	27.0	0.	1-2
3	2.592	23.786	44.20570	-121.8	-3.2	-89.9	71.3	2.04657	0.911	-85.5	74.3	52.8	25.4	21.0	5.96520	2-3
4	2.599	23.938	46.14139	-116.7	-3.9	-89.8	71.6	2.14620	0.868	-85.1	74.5	47.5	30.2	26.4	4.61551	3-4
5	2.606	24.106	48.71004	-113.0	-4.6	-89.8	71.9	2.25654	0.824	-84.6	74.7	42.2	35.2	31.8	5.09342	4-5
6	2.455	24.092	47.72645	-104.8	-4.5	-92.7	72.8	2.22096	0.838	-90.0	74.6	41.9	33.4	32.5	4.58006	5-6
7	2.310	24.079	47.19348	-96.1	-4.3	-95.5	73.7	2.18486	0.852	-95.4	74.6	42.2	32.4	32.4	4.43514	6-7
8	2.317	23.917	44.77484	-97.2	-3.7	-95.3	73.4	2.08265	0.895	-95.0	74.5	47.5	27.0	26.9	4.90278	7-8
9	2.323	23.770	42.95655	-98.9	-3.0	-95.0	73.1	1.99002	0.938	-94.6	74.3	52.8	21.6	21.5	4.45655	8-9
10	2.456	23.778	43.37945	-111.2	-3.1	-92.5	72.2	2.01867	0.925	-90.0	74.3	52.6	23.0	21.5	4.02711	9-10
11	2.592	23.786	44.20570	-121.8	-3.2	-89.9	71.3	2.04657	0.911	-85.5	74.3	52.8	25.4	21.0	4.14583	10-11
12	2.712	23.652	43.87727	-137.5	-2.6	-87.6	70.1	1.97837	0.940	-81.9	74.2	58.4	24.5	14.8	5.41486	11-12
13	2.723	23.793	45.34873	-129.9	-3.3	-87.5	70.4	2.07183	0.897	-81.3	74.4	53.3	28.4	19.9	4.28368	12-13
14	2.736	23.948	47.37306	-124.2	-4.0	-87.3	70.7	2.17487	0.854	-80.6	74.5	48.1	32.8	25.2	4.70797	13-14
15	2.751	24.120	50.04559	-119.7	-4.8	-87.1	71.0	2.28918	0.811	-79.7	74.7	42.9	37.4	30.4	5.20390	14-15
16	2.767	24.310	53.47419	-116.2	-5.5	-86.8	71.3	2.41692	0.766	-78.6	74.9	37.9	42.1	35.5	5.78990	15-16
17	2.614	24.293	52.01457	-110.1	-5.3	-89.7	72.2	2.37958	0.780	-84.1	74.8	37.0	40.2	37.2	4.65757	16-17
18	2.455	24.275	50.92320	-102.9	-5.2	-92.8	73.1	2.33915	0.794	-90.0	74.8	36.7	38.7	38.0	4.83894	17-18
19	2.302	24.258	50.30620	-95.2	-5.0	-95.8	74.0	2.29839	0.807	-96.0	74.8	37.0	37.8	37.8	4.67707	18-19
20	2.153	24.242	50.13425	-87.4	-4.9	-98.8	74.9	2.25727	0.820	-101.8	74.8	37.9	37.5	36.7	4.52748	19-20
21	2.168	24.066	47.08441	-87.0	-4.2	-98.4	74.6	2.14824	0.864	-100.7	74.6	43.0	32.2	31.5	5.33470	20-21
22	2.182	23.907	44.70789	-86.4	-3.6	-98.0	74.4	2.04989	0.908	-99.8	74.4	48.2	26.8	26.2	4.82806	21-22
23	2.194	23.763	42.91497	-85.6	-2.9	-97.6	74.1	1.96062	0.951	-99.1	74.3	53.4	21.4	20.9	4.39464	22-23
24	2.205	23.630	41.62433	-84.3	-2.3	-97.3	73.8	1.87914	0.993	-98.4	74.2	58.5	16.1	15.7	4.02033	23-24
25	2.329	23.636	41.65383	-101.5	-2.4	-94.8	72.9	1.90560	0.981	-94.2	74.2	58.0	16.3	16.1	3.75128	24-25
26	2.456	23.641	42.04277	-116.8	-2.4	-92.4	71.9	1.93124	0.967	-90.0	74.2	57.9	18.0	16.2	3.85292	25-26
27	2.587	23.647	42.81108	-129.0	-2.5	-89.9	71.0	1.95605	0.953	-85.8	74.2	58.0	21.0	15.7	3.96135	26-27
28	2.712	23.652	43.87727	-137.5	-2.6	-87.6	70.1	1.97837	0.940	-81.9	74.2	58.4	24.5	14.8	3.78790	27-28

RA-VIII CAMERA FA

57

FEB. 20, 1965 9 HR 57 MIN 19 SEC 307 MS

TAB NO 57

ATLAS PHOTO NO 57

POD SEQUENCE NO 536

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				17.449		30.91675	2.360	23.572	1766.417	2.634	-42.435	74.073			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.504	24.092	35.03003	-107.5	-3.8	-92.5	72.5	1.63732	0.880	-90.0	74.6	47.3	28.3	27.2	0.
3	2.610	23.982	34.21601	-121.6	-3.2	-89.8	71.4	1.58406	0.910	-85.5	74.5	52.8	25.6	21.2	4.61954
4	2.615	24.100	35.72723	-116.6	-3.9	-89.8	71.7	1.66179	0.867	-85.1	74.7	47.5	30.4	26.6	3.57848
5	2.620	24.231	37.72823	-112.9	-4.6	-89.7	71.9	1.74779	0.823	-84.6	74.8	42.2	35.3	32.0	3.95040
6	2.504	24.220	36.96336	-104.9	-4.5	-92.7	72.8	1.72010	0.837	-90.0	74.8	41.9	33.6	32.7	3.54798
7	2.391	24.210	36.54535	-96.2	-4.4	-95.6	73.6	1.69188	0.850	-95.4	74.8	42.2	32.5	32.5	3.43534
8	2.396	24.084	34.66164	-97.3	-3.7	-95.3	73.4	1.61223	0.894	-95.0	74.6	47.5	27.1	27.1	3.80147
9	2.401	23.970	33.24241	-99.0	-3.1	-95.1	73.1	1.53999	0.937	-94.6	74.5	52.8	21.8	21.7	3.45422
10	2.504	23.976	33.57394	-111.2	-3.1	-92.4	72.2	1.56237	0.923	-90.0	74.5	52.6	23.2	21.7	3.11707
11	2.610	23.982	34.21601	-121.6	-3.2	-89.8	71.4	1.58406	0.910	-85.5	74.5	52.8	25.6	21.2	3.20933
12	2.702	23.879	33.94922	-137.0	-2.6	-87.5	70.3	1.53066	0.939	-81.9	74.4	58.4	24.6	15.0	4.19120
13	2.711	23.988	35.10147	-129.6	-3.3	-87.4	70.6	1.60361	0.896	-81.3	74.5	53.3	28.5	20.2	3.31973
14	2.721	24.108	36.68161	-124.0	-4.0	-87.2	70.9	1.68399	0.853	-80.6	74.7	48.1	32.9	25.4	3.65037
15	2.732	24.241	38.76321	-119.6	-4.7	-87.0	71.1	1.77307	0.810	-79.7	74.8	42.9	37.5	30.5	4.03622
16	2.745	24.389	41.42914	-116.2	-5.5	-86.8	71.4	1.87249	0.766	-78.6	75.0	37.9	42.2	35.6	4.49106
17	2.627	24.376	40.29812	-110.1	-5.3	-89.7	72.2	1.84357	0.779	-84.1	74.9	37.0	40.3	37.2	3.60850
18	2.504	24.362	39.44942	-102.9	-5.2	-92.8	73.0	1.81210	0.793	-90.0	74.9	36.7	38.8	38.1	3.74952
19	2.385	24.348	38.96563	-95.4	-5.1	-95.9	73.9	1.78023	0.806	-96.0	74.9	37.0	37.9	37.9	3.62376
20	2.610	24.336	38.02420	-67.6	-4.2	-90.2	71.7	1.75795	0.820	-101.8	74.9	37.9	37.6	36.8	3.50679
21	2.281	24.200	36.45359	-87.2	-4.3	-98.4	74.5	1.66315	0.863	-100.7	74.7	43.0	32.3	31.6	4.13593
22	2.292	24.076	34.60333	-86.7	-3.6	-98.0	74.2	1.58655	0.907	-99.8	74.6	48.2	26.9	26.4	3.74264
23	2.301	23.964	33.20444	-86.0	-3.0	-97.6	74.0	1.51695	0.950	-99.1	74.5	53.4	21.6	21.1	3.40549
24	2.310	23.862	32.19417	-84.8	-2.3	-97.3	73.7	1.45339	0.992	-98.4	74.4	58.5	16.3	15.9	3.11389
25	2.406	23.866	32.22217	-101.6	-2.4	-94.8	72.8	1.47412	0.979	-94.2	74.4	58.0	16.5	16.4	2.90169
26	2.504	23.870	32.52687	-116.6	-2.5	-92.4	72.0	1.49412	0.966	-90.0	74.4	57.9	18.3	16.4	2.98107
27	2.605	23.875	33.12364	-128.6	-2.5	-89.9	71.1	1.51340	0.952	-85.8	74.4	58.0	21.2	15.9	3.06530
28	2.702	23.879	33.94922	-137.0	-2.6	-87.5	70.3	1.53066	0.939	-81.9	74.4	58.4	24.6	15.0	2.93098

RA-VIII CAMERA FA

58

FEB. 20, 1965 9 HR 57 MIN 24 SEC 427 MS

TAB NO 58

ATLAS PHOTO NO 58

POD SEQUENCE NO 538

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				12.329		21.82576	2.449	23.884	1757.326	2.639	-42.239	74.087			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.552	24.256	24.78678	-107.5	-3.9	-92.5	72.5	1.15854	0.879	-90.0	74.8	47.3	28.5	27.4	0.
3	2.627	24.178	24.20403	-121.4	-3.2	-89.8	71.4	1.12053	0.908	-85.5	74.7	52.8	25.8	21.4	3.26948
4	2.630	24.262	25.28221	-116.5	-3.9	-89.8	71.7	1.17595	0.865	-85.1	74.8	47.5	30.5	26.7	2.53563
5	2.634	24.355	26.70670	-112.8	-4.6	-89.7	72.0	1.23721	0.822	-84.6	74.9	42.2	35.4	32.1	2.80013
6	2.552	24.347	26.16310	-104.9	-4.5	-92.7	72.8	1.21750	0.836	-90.0	74.9	41.9	33.7	32.8	2.51188
7	2.472	24.339	25.86343	-96.3	-4.4	-95.6	73.5	1.19734	0.849	-95.4	74.9	42.2	32.7	32.7	2.43186
8	2.476	24.251	24.52270	-97.5	-3.8	-95.3	73.3	1.14063	0.892	-95.0	74.8	47.5	27.3	27.3	2.69379
9	2.479	24.170	23.51042	-99.2	-3.1	-95.1	73.1	1.08914	0.935	-94.6	74.7	52.8	22.0	21.9	2.44684
10	2.552	24.174	23.74796	-111.1	-3.2	-92.4	72.3	1.10512	0.922	-90.0	74.7	52.6	23.4	21.9	2.20499
11	2.627	24.178	24.20403	-121.4	-3.2	-89.8	71.4	1.12053	0.908	-85.5	74.7	52.8	25.8	21.4	2.27053
12	2.692	24.105	24.00648	-136.6	-2.6	-87.5	70.4	1.08232	0.938	-81.9	74.7	58.4	24.8	15.3	2.96484
13	2.698	24.183	24.83096	-129.3	-3.3	-87.3	70.7	1.13436	0.895	-81.3	74.7	53.3	28.7	20.4	2.35126
14	2.706	24.268	25.95811	-123.8	-4.0	-87.2	71.0	1.19166	0.852	-80.6	74.8	48.1	33.0	25.5	2.58672
15	2.714	24.362	27.43979	-119.5	-4.7	-87.0	71.2	1.25510	0.809	-79.7	74.9	42.9	37.6	30.7	2.86106
16	2.723	24.467	29.33414	-116.1	-5.5	-86.8	71.5	1.32581	0.765	-78.6	75.0	37.9	42.2	35.7	3.18366
17	2.639	24.457	28.53313	-110.0	-5.3	-89.7	72.2	1.30534	0.778	-84.1	75.0	37.0	40.4	37.3	2.55507
18	2.552	24.447	27.92993	-103.0	-5.2	-92.8	73.0	1.28295	0.792	-90.0	75.0	36.7	38.9	38.1	2.65527
19	2.467	24.438	27.58320	-95.5	-5.1	-95.9	73.8	1.26017	0.805	-96.0	75.0	37.0	38.0	38.0	2.56596
20	2.386	24.429	27.47715	-87.8	-5.0	-98.9	74.6	1.23703	0.819	-101.8	75.0	37.9	37.7	36.9	2.48239
21	2.394	24.332	25.79324	-87.5	-4.3	-98.5	74.3	1.17674	0.862	-100.7	74.9	43.0	32.4	31.8	2.93043
22	2.402	24.245	24.47680	-87.0	-3.7	-98.1	74.1	1.12222	0.905	-99.8	74.8	48.2	27.1	26.5	2.65145
23	2.409	24.166	23.47943	-86.4	-3.0	-97.7	73.9	1.07264	0.948	-99.1	74.7	53.4	21.8	21.3	2.41180
24	2.415	24.093	22.75678	-85.3	-2.4	-97.3	73.6	1.02733	0.991	-98.4	74.6	58.5	16.6	16.1	2.20423
25	2.482	24.096	22.78031	-101.7	-2.4	-94.9	72.8	1.04216	0.978	-96.2	74.6	58.0	16.8	16.6	2.05129
26	2.552	24.099	22.99849	-116.5	-2.5	-92.3	72.0	1.05643	0.965	-90.0	74.7	57.9	18.5	16.6	2.10795
27	2.623	24.102	23.42215	-128.2	-2.5	-89.8	71.2	1.07013	0.951	-85.8	74.7	58.0	21.4	16.1	2.16776
28	2.692	24.105	24.00648	-136.6	-2.6	-87.5	70.4	1.08232	0.938	-81.9	74.7	58.4	24.8	15.3	2.07271

RA-VIII CAMERA FA

59

FEB. 20, 1965 9 HR 57 MIN 29 SEC 547 MS

TAB NO 59

ATLAS PHOTO NO 59

POD SEQUENCE NO 540

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				7.209		12.75032	2.539	24.200	1748.250	2.645	-42.041	74.101				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.600	24.420	14.51411	-107.5	-3.9	-92.5	72.5	0.67840	0.878	-90.0	75.0	47.3	28.7	27.5	0.	1- 2
3	2.644	24.374	14.16895	-121.2	-3.2	-89.7	71.5	0.65595	0.907	-85.5	74.9	52.8	26.0	21.6	1.91492	2- 3
4	2.646	24.424	14.80545	-116.4	-4.0	-89.7	71.8	0.68864	0.864	-85.1	75.0	47.5	30.7	26.9	1.48684	3- 4
5	2.648	24.478	15.64463	-112.8	-4.7	-89.7	72.0	0.72475	0.821	-84.6	75.0	42.2	35.6	32.2	1.64252	4- 5
6	2.600	24.473	15.32487	-104.9	-4.6	-92.7	72.7	0.71314	0.834	-90.0	75.0	41.9	33.8	32.9	1.47167	5- 6
7	2.553	24.460	15.14705	-96.5	-4.5	-95.6	73.5	0.70122	0.848	-95.4	75.0	42.2	32.8	32.8	1.42462	6- 7
8	2.555	24.417	14.35744	-97.6	-3.8	-95.3	73.2	0.66781	0.891	-95.0	75.0	47.5	27.5	27.5	1.57965	7- 8
9	2.557	24.369	13.75997	-99.3	-3.1	-95.1	73.0	0.63744	0.934	-94.6	74.9	52.8	22.2	22.1	1.43435	8- 9
10	2.600	24.372	13.90085	-111.1	-3.2	-92.4	72.3	0.64688	0.921	-90.0	74.9	52.6	23.6	22.1	1.29080	9-10
11	2.644	24.374	14.16895	-121.2	-3.2	-89.7	71.5	0.65595	0.907	-85.5	74.9	52.8	26.0	21.6	1.32934	10-11
12	2.682	24.332	14.04816	-136.2	-2.6	-87.4	70.6	0.63333	0.936	-81.9	74.9	58.4	24.9	15.5	1.73564	11-12
13	2.686	24.377	14.53630	-129.1	-3.3	-87.2	70.8	0.66405	0.894	-81.3	74.9	53.3	28.8	20.6	1.37815	12-13
14	2.690	24.427	15.20161	-123.6	-4.0	-87.1	71.1	0.69784	0.851	-80.6	75.0	48.1	33.1	25.7	1.51692	13-14
15	2.695	24.482	16.07434	-119.4	-4.7	-86.9	71.3	0.73523	0.808	-79.7	75.0	42.9	37.7	30.8	1.67828	14-15
16	2.700	24.544	17.18825	-116.0	-5.5	-86.7	71.6	0.77685	0.764	-78.6	75.1	37.9	42.3	35.8	1.86765	15-16
17	2.651	24.538	16.71876	-110.0	-5.4	-89.7	72.2	0.76485	0.777	-84.1	75.1	37.0	40.5	37.4	1.49718	16-17
18	2.600	24.532	16.36392	-103.0	-5.3	-92.8	73.0	0.75167	0.791	-90.0	75.1	36.7	39.0	38.2	1.55608	17-18
19	2.550	24.527	16.15827	-95.6	-5.2	-95.9	73.7	0.73820	0.804	-96.0	75.1	37.0	38.1	38.1	1.50361	18-19
20	2.503	24.521	16.09264	-88.0	-5.1	-99.0	74.4	0.72447	0.818	-101.8	75.1	37.9	37.8	37.0	1.45418	19-20
21	2.508	24.465	15.10285	-87.7	-4.4	-98.5	74.2	0.68900	0.861	-100.7	75.0	43.0	32.5	31.9	1.71819	20-21
22	2.512	24.413	14.32780	-87.3	-3.8	-98.1	74.0	0.65689	0.904	-99.8	75.0	48.2	27.2	26.7	1.55446	21-22
23	2.516	24.367	13.73936	-86.7	-3.1	-97.7	73.8	0.62766	0.947	-99.1	74.9	53.4	22.0	21.5	1.41349	22-23
24	2.520	24.324	13.31169	-85.8	-2.4	-97.4	73.6	0.60094	0.990	-98.4	74.9	58.5	16.8	16.4	1.29121	23-24
25	2.559	24.326	13.32765	-101.9	-2.5	-94.9	72.8	0.60972	0.977	-94.2	74.9	58.0	17.0	16.8	1.20004	24-25
26	2.600	24.328	13.45695	-116.3	-2.5	-92.3	72.0	0.61814	0.963	-90.0	74.9	57.9	18.7	16.8	1.23351	25-26
27	2.642	24.330	13.70589	-127.9	-2.5	-89.8	71.3	0.62619	0.950	-85.8	74.9	58.0	21.6	16.4	1.26866	26-27
28	2.682	24.332	14.04816	-136.2	-2.6	-87.4	70.6	0.63333	0.936	-81.9	74.9	58.4	24.9	15.5	1.21300	27-28

RA-VIII CAMERA FA

60

FEB. 20, 1965 9 HR 57 MIN 34 SEC 667 MS

TAB NO 60

ATLAS PHOTO NO 60

POD SEQUENCE NO 542

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				2.089		3.69093	2.630	24.519	1739.191	2.650	-41.841	74.116				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.648	24.583	4.21154	-107.5	-3.9	-92.5	72.5	0.19685	0.876	-90.0	75.1	47.3	28.8	27.7	0.	1- 2
3	2.660	24.570	4.11024	-121.0	-3.3	-89.7	71.6	0.19028	0.905	-85.5	75.1	52.8	26.1	21.8	0.55578	2- 3
4	2.661	24.584	4.29644	-116.3	-4.0	-89.7	71.8	0.19984	0.862	-85.1	75.1	47.5	30.8	27.1	0.43205	3- 4
5	2.662	24.600	4.54140	-112.7	-4.7	-89.7	72.0	0.21038	0.819	-84.6	75.2	42.2	35.7	32.3	0.47742	4- 5
6	2.648	24.599	4.44820	-105.0	-4.6	-92.7	72.7	0.20700	0.833	-90.0	75.2	41.9	34.0	33.1	0.42727	5- 6
7	2.634	24.598	4.39594	-96.6	-4.5	-95.6	73.4	0.20350	0.847	-95.4	75.2	42.2	32.9	32.9	0.41356	6- 7
8	2.635	24.582	4.16549	-97.8	-3.9	-95.4	73.2	0.19375	0.890	-95.0	75.1	47.5	27.6	27.6	0.45904	7- 8
9	2.635	24.569	3.99075	-99.5	-3.2	-95.1	73.0	0.18487	0.933	-94.6	75.1	52.8	22.4	22.3	0.41667	8- 9
10	2.648	24.569	4.03214	-111.0	-3.2	-92.4	72.3	0.18764	0.919	-90.0	75.1	52.6	23.8	22.3	0.37445	9-10
11	2.660	24.570	4.11024	-121.0	-3.3	-89.7	71.6	0.19028	0.905	-85.5	75.1	52.8	26.1	21.8	0.38568	10-11
12	2.671	24.558	4.07371	-135.8	-2.6	-87.3	70.7	0.18365	0.935	-81.9	75.1	58.4	25.1	15.7	0.50351	11-12
13	2.672	24.571	4.21691	-128.8	-3.3	-87.2	71.0	0.19263	0.893	-81.3	75.1	53.3	29.0	20.8	0.40028	12-13
14	2.674	24.585	4.41148	-123.4	-4.0	-87.0	71.2	0.20251	0.850	-80.6	75.1	48.1	33.3	25.9	0.44080	13-14
15	2.675	24.602	4.66622	-119.3	-4.7	-86.9	71.4	0.21343	0.807	-79.7	75.2	42.9	37.8	30.9	0.54292	15-16
16	2.677	24.619	4.99078	-115.9	-5.4	-86.7	71.7	0.22556	0.764	-78.7	75.2	37.9	42.4	35.8	0.43473	16-17
17	2.662	24.618	4.85443	-110.0	-5.4	-89.6	72.3	0.22208	0.776	-84.1	75.2	37.9	42.4	35.8	0.45189	17-18
18	2.648	24.616	4.75100	-103.1	-5.3	-92.8	72.9	0.21823	0.790	-90.0	75.2	36.7	39.1	38.3	0.43661	18-19
19	2.633	24.614	4.69057	-95.8	-5.2	-95.9	73.6	0.21429	0.803	-96.0	75.2	37.0	38.2	38.2	0.42214	19-20
20	2.619	24.613	4.67049	-88.2	-5.2	-99.0	74.2	0.21025	0.817	-101.8	75.2	36.0	37.8	37.1	0.49923	20-21
21	2.621	24.596	4.38219	-88.0	-4.5	-98.6	74.1	0.19991	0.860	-100.7	75.2	43.0	32.7	32.0	0.45158	21-22
22	2.622	24.582	4.15608	-87.6	-3.8	-98.2	73.9	0.19054	0.903	-99.8	75.1	48.2	27.4	26.9	0.41052	22-23
23	2.623	24.568	3.98405	-87.1	-3.1	-97.8	73.7	0.18200	0.946	-99.1	75.1	53.4	22.1	21.7	0.37482	23-24
24	2.624	24.556	3.85864	-86.3	-2.5	-97.4	73.5	0.17419	0.989	-98.4	75.1	58.5	17.0	16.6	0.34789	24-25
25	2.636	24.556	3.86392	-102.0	-2.5	-94.9	72.8	0.17677	0.976	-94.2	75.1	58.0	17.2	17.1	0.35769	25-26
26	2.648	24.557	3.90188	-116.1	-2.5	-92.3	72.0	0.17923	0.962	-90.0	75.1	57.9	18.9	17.1	0.36792	26-27
27	2.660	24.557	3.97436	-127.5	-2.6	-89.7	71.3	0.18158	0.948	-85.8	75.1	58.0	21.8	16.6	0.35177	27-28
28	2.671	24.558	4.07371	-135.8	-2.6	-87.3	70.7	0.18365	0.935	-81.9	75.1	58.4	25.1	15.7		

TIME- AND CAMERA-DEPENDENT PARAMETERS

1

FEB. 20, 1965 9 HR 34 MIN 34 SEC 832 MS TAB NO 1 ATLAS PHOTO NO 1 POD SEQUENCE NO 3

TRAJECTORY DATA SEC TO IMPACT ALT LAT LON R V PTH AZ
1381.923 2505.61456 -7.260 -10.721 4241.115 1.923 -65.395 75.439

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-11.755	-2.274	2545.28259	-64.2	-0.9	-84.0	25.8	41.60681	0.962	-90.3	48.7	34.0	15.9	14.4	0.	1-2
3	-8.889	-5.033	2520.93152	-76.6	-2.2	-85.8	19.7	41.16459	0.986	-87.6	45.6	35.9	9.9	9.7	119.55435	2-3
4	-9.105	0.694	2563.38675	-83.0	-0.9	-86.2	13.4	41.85644	0.946	-87.4	51.3	32.1	19.2	19.1	171.45137	3-4
5	-14.703	0.690	2584.83121	-58.7	0.9	-82.8	29.7	42.20801	0.925	-93.2	52.0	32.2	22.4	18.8	169.56045	4-5
6	-14.387	-5.204	2541.13214	-40.1	-1.3	-81.3	40.2	41.49309	0.967	-92.9	46.3	35.9	15.0	9.2	173.08106	5-6
7	-8.889	-5.033	2520.93152	-76.6	-2.2	-85.8	19.7	41.16459	0.986	-87.6	45.6	35.9	9.9	9.7	166.61109	6-7
8	-6.067	-7.656	2510.39270	-114.2	-3.0	-88.1	9.2	40.86143	1.000	-85.2	42.8	37.8	5.5	4.8	116.22574	7-8
9	-6.272	-2.118	2538.42834	-99.1	-2.2	-88.0	5.3	41.40355	0.970	-84.8	48.3	34.1	14.5	14.0	166.88296	8-9
10	-6.403	3.762	2596.32379	-95.6	-1.4	-87.8	3.3	42.25430	0.918	-84.2	54.1	30.4	24.0	23.6	177.05142	9-10
11	-12.003	3.728	2603.90204	-73.6	0.8	-84.9	19.0	42.47363	0.909	-90.3	54.5	30.2	24.9	24.0	169.61686	10-11
12	-17.779	3.959	2641.85248	-55.6	3.3	-82.3	32.4	43.00110	0.876	-96.5	55.6	30.5	29.3	23.0	175.09669	11-12
13	-17.401	-2.295	2580.40082	-41.6	0.5	-80.3	41.5	42.08805	0.931	-95.8	49.7	34.2	21.8	3.8	169.82169	12-13
14	-17.033	-8.152	2590.63306	-17.6	-2.2	-78.1	55.3	41.51093	0.961	-95.3	44.2	37.9	16.9	5.0	168.52560	13-14
15	-11.473	-7.919	2516.94046	-36.4	-2.6	-82.9	38.2	41.05520	0.991	-90.3	43.2	37.7	8.5	5.0	168.52560	14-15
16	-6.067	-7.656	2510.39270	-114.2	-3.0	-88.1	9.2	40.86143	1.000	-85.2	42.8	37.8	5.5	4.8	163.94024	15-16

FEB. 20, 1965 9 HR 36 MIN 22 SEC 352 MS TAB NO 2 ATLAS PHOTO NO 2 POD SEQUENCE NO 45

TRAJECTORY DATA SEC TO IMPACT ALT LAT LON R V PTH AZ
1274.404 2316.95560 -6.953 -9.534 4052.456 1.951 -64.529 75.305

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-10.734	-0.019	2363.80847	-70.5	-0.7	-85.3	19.5	38.64032	0.953	-90.3	50.8	33.9	17.6	16.6	0.	1-2
3	-8.088	-2.609	2339.20273	-83.1	-1.9	-86.8	13.2	38.19694	0.979	-87.7	47.9	35.8	12.1	12.1	111.40508	2-3
4	-8.262	2.759	2385.10495	-86.0	-0.9	-87.0	9.5	38.94518	0.934	-87.4	53.2	32.1	21.1	21.1	161.02244	3-4
5	-13.456	2.764	2402.15955	-63.9	1.0	-84.3	24.0	39.22494	0.917	-93.3	53.8	32.1	23.6	20.8	157.32464	4-5
6	-13.176	-2.737	2355.14456	-49.7	-0.9	-83.2	31.4	38.45601	0.963	-93.0	48.5	35.9	15.9	11.7	162.37561	5-6
7	-8.088	-2.609	2339.20273	-83.1	-1.9	-86.8	13.2	38.19694	0.979	-87.7	47.9	35.8	12.1	12.1	154.18624	6-7
8	-5.486	-5.066	2327.03918	-110.8	-2.7	-88.7	3.8	37.87628	0.994	-85.2	45.3	37.8	8.2	7.4	108.03226	7-8
9	-5.642	0.111	2359.73938	-100.1	-2.1	-88.5	2.2	38.48811	0.959	-84.8	50.5	34.1	16.8	16.2	156.16827	8-9
10	-5.731	5.651	2420.02878	-96.6	-1.5	-88.3	1.2	39.38440	0.903	-84.2	56.0	30.4	25.9	25.4	167.00387	9-10
11	-10.945	5.616	2424.62708	-77.0	0.8	-85.9	14.9	39.54956	0.897	-90.4	56.3	30.2	26.5	25.9	157.91994	10-11
12	-16.295	5.826	2456.32092	-59.9	3.3	-83.9	27.3	39.98038	0.869	-96.5	57.2	30.4	30.1	24.9	162.16471	11-12
13	-15.951	-0.014	2392.96335	-48.4	0.8	-82.3	34.2	39.02990	0.927	-95.9	51.6	34.1	22.3	15.5	170.23844	12-13
14	-15.618	-5.443	2358.62048	-27.8	-1.5	-80.6	44.4	38.38534	0.963	-95.3	46.4	37.9	16.6	6.5	158.58285	13-14
15	-10.494	-5.280	2330.86795	-52.8	-2.1	-84.5	27.3	38.02024	0.988	-90.3	45.6	37.7	9.6	7.6	155.29430	14-15
16	-5.486	-5.066	2327.03918	-110.8	-2.7	-88.7	3.8	37.87628	0.994	-85.2	45.3	37.8	8.2	7.4	151.81248	15-16

RA-VIII CAMERA FB

2

FEB. 20, 1965 9 HR 38 MIN 9 SEC 871 MS TAB NO 3 ATLAS PHOTO NO 3 POD SEQUENCE NO 87

TRAJECTORY DATA SEC TO IMPACT ALT LAT LON R V PTH AZ
1166.884 2126.90335 -6.612 -8.230 3862.403 1.981 -63.588 75.165

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-9.659	2.139	2181.07862	-75.7	-0.6	-86.5	14.3	35.65323	0.944	-90.3	52.8	34.0	19.2	18.6	0.	1-2
3	-7.232	-0.274	2156.77301	-87.8	-1.8	-87.7	8.2	35.21781	0.970	-87.6	50.2	35.9	14.3	14.3	103.11917	2-3
4	-7.369	4.729	2204.82950	-88.6	-0.9	-87.8	6.1	36.00141	0.922	-87.4	55.1	32.2	23.0	23.0	150.36982	3-4
5	-12.158	4.731	2217.68918	-68.6	1.0	-85.7	19.0	36.21247	0.909	-93.2	55.6	32.2	24.8	22.8	145.04526	4-5
6	-11.912	-0.375	2168.71335	-58.1	-0.6	-84.8	23.9	35.41173	0.958	-92.9	50.6	35.9	16.9	14.0	151.43310	5-6
7	-7.232	-0.274	2156.77301	-87.8	-1.8	-87.7	8.2	35.21781	0.970	-87.6	50.2	35.9	14.3	14.3	141.80598	6-7
8	-4.848	-2.561	2143.58972	-109.7	-2.5	-89.3	0.0	34.88946	0.987	-85.2	47.8	37.9	10.7	9.8	99.80060	7-8
9	-4.960	2.256	2179.64291	-101.1	-2.1	-89.0	89.6	35.54979	0.948	-84.8	52.6	34.2	19.0	18.2	145.39479	8-9
10	-5.014	7.444	2241.03607	-97.7	-1.6	-88.6	89.2	36.47079	0.889	-84.2	57.7	30.4	27.8	27.1	156.57118	9-10
11	-9.837	7.398	2242.76883	-90.0	0.6	-86.9	11.3	36.83331	0.885	-90.3	57.9	30.2	28.0	27.6	146.09839	10-11
12	-14.760	7.574	2268.44916	-64.0	3.0	-85.4	22.6	36.92144	0.862	-96.5	58.6	30.5	30.8	26.7	149.20871	11-12
13	-14.450	2.155	2204.59109	-54.7	1.0	-84.1	27.6	35.95660	0.923	-95.8	53.4	34.2	23.0	17.7	159.11669	12-13
14	-14.152	-2.854	2167.12720	-37.8	-1.0	-82.8	34.8	35.26839	0.963	-95.3	48.6	37.9	16.6	9.1	147.27922	13-14
15	-9.457	-2.738	2144.88892	-65.0	-1.8	-86.0	18.9	34.98675	0.983	-90.3	48.0	37.7	11.1	10.1	142.23717	14-15
16	-4.848	-2.561	2143.58972	-109.7	-2.5	-89.3	0.0	34.88946	0.987	-85.2	47.8	37.9	10.7	9.8	139.72660	15-16

FEB. 20, 1965 9 HR 39 MIN 42 SEC 31 MS TAB NO 4 ATLAS PHOTO NO 4 POD SEQUENCE NO 123

TRAJECTORY DATA SEC TO IMPACT ALT LAT LON R V PTH AZ
1074.725 1962.87048 -6.288 -7.006 3698.370 2.009 -62.713 75.038

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-8.702	4.088	2024.83337	-79.7	-0.6	-87.5	10.3	33.09922	0.934	-90.3	54.6	34.0	20.9	20.6	0.	1-2
3	-6.458	1.828	2000.82724	-91.1	-1.7	-88.4	4.6	32.67113	0.960	-87.6	52.2	35.9	16.4	16.4	96.04879	2-3
4	-6.568	6.524	2050.56583	-90.7	-1.0	-88.4	3.5	33.48238	0.909	-87.4	56.9	32.1	24.8	24.8	141.38172	3-4
5	-11.012	6.515	2060.00116	-72.5	0.8	-86.9	14.8	33.63733	0.899	-93.2	57.2	32.1	26.1	24.6	134.60899	4-5
6	-10.792	1.740	2009.53316	-64.9	-0.5	-86.2	18.1	32.81244	0.951	-92.9	52.5	35.9	18.2	16.1	142.19421	5-6
7	-6.458	1.828	2000.82724	-91.1	-1.7	-88.4	4.6	32.67113	0.960	-87.6	52.2	35.9	16.4	16.4	131.29187	6-7
8	-4.257	-0.312	1986.87584	-109.1	-2.5	-89.7	87.4	32.33778	0.978	-85.2	50.0	37.8	13.1	12.0	92.78662	7-8
9	-4.338	4.201	2025.56175	-101.9	-2.1	-89.4	87.6	33.03585	0.935	-84.8	54.5	34.1	21.0	20.2	136.32645	8-9
10	-4.366	9.094	2087.83319	-98.6	-1.8	-89.0	87.6	33.97697	0.874	-84.2	59.4	30.4	29.5	28.7	147.77512	9-10
11	-8.856	9.031	2087.19174	-82.6	0.4	-87.8	8.3	34.04570	0.873	-90.3	59.5	30.2	29.4	29.2	136.02384	10-11
12	-13.418	9.172	2107.98547	-67.6	2.7	-86.7	18.6	34.30858	0.854	-96.5	60.0	30.4	31.7	28.4	138.25187	11-12
13	-13.132	4.102	2043.79720	-60.2	1.0	-85.7	22.1	33.33319	0.917	-95.9	55.1	34.2	23.8	19.8	149.72293	12-13
14	-12.858	-0.557	2003.96278	-46.8	-0.7	-84.6	27.1	32.61254	0.960	-95.3	50.6	37.9	17.0	11.5	137.75867	13-14
15	-8.527	-0.468	1986.13229	-73.5	-1.6	-87.1	13.0	32.39726	0.977	-90.3	50.1	37.7	12.8	12.3	131.21144	14-15
16	-4.257	-0.312	1986.87584	-109.1	-2.5	-89.7	87.4	32.33778	0.978	-85.2	50.0	37.8	13.1	12.0	129.43968	15-16

RA-VIII CAMERA FB

3

FEB. 20, 1965 9 HR 41 MIN 9 SEC 70 MS										TAB NO 5		ATLAS PHOTO NO 5		POD SEQUENCE NO 157											
TRAJECTORY DATA										SEC TO IMPACT 997.685		ALT 1806.98239		LAT -5.952		LON -5.746		R 3542.482		V 2.038		PTH -61.819		AZ 74.914	
PHOTO DATA																									
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT									
2	-7.792	5.874	1876.12677	-83.0	-0.7	-88.3	7.0	30.66836	0.924	-90.3	56.3	34.0	22.5	22.3	0.	1-2									
3	-5.722	3.762	1852.68497	-93.4	-1.7	-89.0	1.8	30.25189	0.950	-87.6	54.1	35.9	18.3	18.2	89.27367	2-3									
4	-5.808	8.163	1903.14230	-92.4	-1.2	-88.9	1.3	31.07508	0.896	-87.4	58.5	32.1	26.4	26.3	132.65401	3-4									
5	-9.925	8.140	1909.66071	-75.8	0.6	-87.9	11.4	31.18218	0.890	-93.2	58.7	32.2	27.3	26.2	124.71705	4-5									
6	-9.728	3.681	1858.66757	-70.3	-0.5	-87.4	13.5	30.34695	0.944	-92.9	54.3	35.9	19.5	18.1	133.23611	5-6									
7	-5.722	3.762	1852.68497	-93.4	-1.7	-89.0	1.8	30.25189	0.950	-87.6	54.1	35.9	18.3	18.2	121.37887	6-7									
8	-3.692	1.764	1838.32092	-108.8	-2.5	-90.0	85.6	29.91895	0.969	-85.2	52.1	37.9	15.2	14.0	86.11153	7-8									
9	-3.746	5.986	1878.62054	-102.5	-2.2	-89.7	86.0	30.63851	0.923	-84.7	56.3	34.1	22.9	21.9	127.62009	8-9									
10	-3.751	10.588	1940.82574	-99.4	-2.0	-89.2	86.3	31.58411	0.860	-84.2	60.9	30.4	31.1	30.2	139.11333	9-10									
11	-7.924	10.510	1938.22049	-84.8	0.1	-88.5	5.8	31.61579	0.861	-90.3	60.9	30.2	30.8	30.7	126.40176	10-11									
12	-12.145	10.616	1954.76816	-70.8	2.3	-87.8	15.2	31.81374	0.846	-96.5	61.3	30.5	32.6	30.0	127.90416	11-12									
13	-11.883	5.880	1891.17764	-64.9	0.9	-87.0	17.6	30.84325	0.910	-95.8	56.7	34.2	24.8	21.6	140.50813	12-13									
14	-11.633	1.550	1850.01869	-54.4	-0.5	-86.2	20.9	30.10686	0.956	-95.3	52.4	37.9	17.8	13.6	128.64284	13-14									
15	-7.642	1.623	1835.93031	-79.4	-1.5	-88.1	8.6	29.94726	0.970	-90.3	52.1	37.7	14.6	14.4	120.90483	14-15									
16	-3.692	1.764	1838.32092	-108.8	-2.5	-90.0	85.6	29.91895	0.969	-85.2	52.1	37.9	15.2	14.0	119.72405	15-16									

FEB. 20,1965 9 HR 42 MIN 25 SEC 870 MS															TAB NO	6	ATLAS PHOTO NO 6				POD SEQUENCE NO 187																									
TRAJECTORY DATA															SEC TO IMPACT				ALT				LAT				LON				R				V				PTH				AZ			
PHOTO DATA															910.885				1668.65311				-5.627				-4.538				3404.153				2.065				-60.970				74.801			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT																														
2	-6.974	7.454	1744.25032	-85.5	-0.8	-89.0	4.5	28.51263	0.914	-90.3	57.9	34.0	23.9	23.9	0.	1-2																														
3	-5.056	5.475	1721.45943	-95.2	-1.8	-89.5	89.7	28.10890	0.940	-87.6	55.8	35.9	20.1	19.9	83.24226	2-3																														
4	-5.122	9.612	1772.07288	-93.8	-1.4	-89.3	89.5	28.93484	0.885	-87.4	59.9	32.2	27.9	27.7	124.83164	3-4																														
5	-8.951	9.576	1776.21648	-78.6	0.4	-88.7	8.6	29.00295	0.880	-93.2	60.1	32.2	28.4	27.7	115.97698	4-5																														
6	-8.774	5.396	1725.24521	-74.6	-0.5	-88.3	10.0	28.17030	0.936	-92.9	55.9	35.9	20.8	19.8	125.21381	5-6																														
7	-5.056	5.475	1721.45943	-95.2	-1.8	-89.5	89.7	28.10890	0.940	-87.6	55.8	35.9	20.1	19.9	112.64715	6-7																														
8	-3.178	3.604	1706.91347	-108.6	-2.5	-90.3	84.2	27.77933	0.960	-85.2	53.9	37.9	17.1	15.8	80.19279	7-8																														
9	-3.209	7.567	1748.14250	-103.1	-2.3	-89.9	84.8	28.50980	0.912	-84.7	57.9	34.1	24.5	23.4	119.86783	8-9																														
10	-3.197	11.909	1809.81601	-100.1	-2.2	-89.4	85.2	29.45172	0.847	-84.2	62.2	30.4	32.5	31.4	131.29348	9-10																														
11	-7.087	11.815	1805.63884	-86.6	-0.1	-89.1	3.8	29.45319	0.850	-90.3	62.2	30.2	32.0	31.9	117.85802	10-11																														
12	-11.008	11.889	1818.68982	-73.5	2.0	-88.8	12.3	29.59797	0.838	-96.4	62.5	30.5	33.4	31.3	118.79200	11-12																														
13	-10.767	7.451	1756.10265	-68.8	0.7	-88.1	14.0	28.63958	0.903	-95.8	58.1	34.2	25.7	23.2	132.20824	12-13																														
14	-10.538	3.408	1714.29198	-60.6	-0.4	-87.4	16.2	27.89774	0.951	-95.3	54.1	37.9	18.7	15.5	120.53788	13-14																														
15	-6.845	3.473	1703.23419	-83.6	-1.5	-88.8	5.3	27.78279	0.962	-90.2	53.9	37.7	16.3	16.2	111.88120	14-15																														
16	-3.178	3.604	1706.91347	-108.6	-2.5	-90.3	84.2	27.77933	0.960	-85.2	53.9	37.9	17.1	15.8	111.15406	15-16																														

RA-VIII CAMERA FB

4

FEB. 20, 1965 9 HR 43 MIN 42 SEC 670 MS															TAB NO	7	ATLAS PHOTO NO	7	POD SEQUENCE NO 217				
TRAJECTORY DATA															SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ
															834.086	1529.59985	-5.271	-3.229	3265.100	2.095	-60.055	74.685	
PHOTO DATA																							
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT							
2	-6.161	9.069	1611.98959	-87.8	-1.0	-89.5	2.2	26.35061	0.903	-90.2	59.4	34.0	25.5	25.5	0.	1-2							
3	-4.394	7.224	1589.88422	-96.6	-1.8	-89.9	87.9	25.96021	0.929	-87.6	57.6	35.9	21.9	21.6	77.19805	2-3							
4	-4.442	11.096	1640.32980	-95.0	-1.6	-89.7	88.0	26.78361	0.872	-87.3	61.4	32.1	29.4	29.2	116.94490	3-4							
5	-7.982	11.047	1642.39365	-81.1	0.2	-89.5	6.1	26.81754	0.869	-93.2	61.5	32.1	29.7	29.2	107.24534	4-5							
6	-7.825	7.145	1591.76102	-78.3	-0.6	-89.2	6.9	25.99063	0.927	-92.9	57.6	35.9	22.2	21.6	117.14180	5-6							
7	-4.394	7.224	1589.88422	-96.6	-1.8	-89.9	87.9	25.96021	0.929	-87.6	57.6	35.9	21.9	21.6	103.93982	6-7							
8	-2.668	5.480	1575.22734	-108.4	-2.5	-90.4	83.1	25.63518	0.949	-85.2	55.8	37.8	19.1	17.6	74.26630	7-8							
9	-2.678	9.184	1617.03210	-103.5	-2.5	-90.0	83.7	26.37081	0.899	-84.7	59.5	34.1	26.2	25.0	112.07768	8-9							
10	-2.649	13.261	1677.86441	-100.6	-2.4	-89.5	84.2	27.30399	0.834	-84.1	63.6	30.4	33.9	32.8	123.37214	9-10							
11	-6.255	13.154	1672.37779	-88.3	-0.4	-89.6	1.9	27.27949	0.838	-90.3	63.5	30.2	33.3	33.3	109.27872	10-11							
12	-9.877	13.198	1682.29025	-76.1	1.6	-89.7	9.6	27.37699	0.829	-96.4	63.7	30.4	34.4	32.7	109.73364	11-12							
13	-9.658	9.055	1620.98567	-72.4	0.6	-89.1	10.7	26.43526	0.894	-95.8	59.6	34.2	26.8	24.9	123.84293	12-13							
14	-9.450	5.297	1578.87334	-66.3	-0.4	-88.5	12.0	25.69363	0.945	-95.3	55.9	37.9	19.8	17.5	112.42235	13-14							
15	-6.052	5.356	1570.50287	-86.9	-1.5	-89.5	2.6	25.61773	0.953	-90.2	55.7	37.7	18.1	18.0	102.93608	14-15							
16	-2.668	5.480	1575.22734	-109.4	-2.5	-90.4	83.1	25.63518	0.949	-85.2	55.8	37.8	19.1	17.6	102.58535	15-16							

FEB. 20, 1965 9 HR 44 MIN 49 SEC 230 MS															TAB NO 8		ATLAS PHOTO NO 8				POD SEQUENCE NO 243									
TRAJECTORY DATA															SEC TO IMPACT 767.526		ALT 1408.51642		LAT -4.935		LON -2.001		R 3144.016		V 2.122		PTH -59.204		AZ 74.583	
PHOTO DATA																														
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	2	3												
2	-5.444	10.428	1495.99278	-89.5	-1.1	-90.0	0.5	24.45445	0.893	-90.2	60.8	34.0	26.8	26.8	0.	1	2													
3	-3.810	8.703	1474.71205	-97.8	-2.0	-90.2	86.5	24.07941	0.919	-87.6	59.0	35.9	23.4	23.1	71.84831	2	3													
4	-3.843	12.337	1524.39578	-96.0	-1.8	-90.0	86.8	24.89054	0.861	-87.3	62.7	32.2	30.7	30.4	109.83301	3	4													
5	-7.130	12.275	1524.81293	-83.2	-0.1	-90.1	4.1	24.89740	0.860	-93.1	62.7	32.2	30.8	30.4	99.59668	4	5													
6	-6.990	8.622	1475.09004	-81.2	-0.7	-89.8	4.5	24.08554	0.918	-92.8	59.0	35.9	23.5	23.0	109.87387	5	6													
7	-3.810	8.703	1474.71205	-97.8	-2.0	-90.2	86.5	24.07941	0.919	-87.6	59.0	35.9	23.4	23.1	96.34891	6	7													
8	-2.214	7.073	1460.16661	-108.3	-2.6	-90.6	82.2	23.76229	0.939	-85.1	57.4	37.9	20.7	19.2	69.05242	7	8													
9	-2.209	10.546	1501.89975	-103.8	-2.6	-90.1	82.9	24.49259	0.888	-84.7	60.9	34.2	27.7	26.3	105.11494	8	9													
10	-2.168	14.383	1561.34599	-101.1	-2.6	-89.6	83.4	25.40757	0.822	-84.1	64.7	30.4	35.1	33.9	116.14730	10	11													
11	-5.524	14.264	1554.86639	-98.6	-0.7	-90.0	4.4	25.36268	0.827	-90.2	64.6	30.2	34.4	34.4	101.72112	10	11													
12	-4.885	10.400	1562.74138	-78.2	-1.2	-90.4	7.8	25.42735	0.850	-95.5	60.9	34.2	27.8	26.3	101.61130	10	11													
13	-8.683	10.402	1502.69714	-75.3	0.3	-89.9	8.0	24.50559	0.887	-97.7	60.9	34.2	27.8	26.3	116.24486	12	13													
14	-8.493	8.895	1500.92899	-70.6	-0.5	-89.5	8.8	23.77402	0.938	-95.2	57.4	37.9	20.9	19.1	105.18653	13	14													
15	-5.352	6.954	1454.69571	-89.4	-1.5	-90.0	0.5	23.72871	0.944	-90.2	57.3	37.9	19.6	19.6	95.18283	14	15													
16	-2.214	7.073	1460.16661	-108.3	-2.6	-90.6	82.2	23.76229	0.939	-85.1	57.4	37.9	20.7	19.2	95.11383	15	16													

RA-VIII CAMERA FB

5

FEB. 20, 1965 9 HR 45 MIN 19 SEC 950 MS

TAB NO 9

ATLAS PHOTO NO 9

POD SEQUENCE NO 255

TRAJECTORY DATA						SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA						736.806	1352.45871	-4.770	-1.401	3087.959	2.136	-58.790	74.536			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-5.108	11.065	1442.27719	-90.3	-1.2	-90.2	89.7	23.57638	0.888	-90.2	61.4	34.0	27.4	27.4	0.	1-2
3	-3.535	9.396	1421.40312	-98.3	-2.0	-90.3	85.9	23.20886	0.914	-87.5	59.7	35.9	24.1	23.7	69.36689	2-3
4	-3.562	12.920	1470.64743	-96.5	-1.9	-90.1	86.2	24.01290	0.855	-87.3	63.2	32.2	31.3	31.0	106.52099	3-4
5	-6.732	12.851	1470.34846	-84.1	-0.2	-90.4	3.2	24.00798	0.856	-93.1	63.2	32.2	31.3	31.0	96.06093	4-5
6	-6.599	9.314	1421.13264	-82.5	-0.8	-90.1	3.4	23.20448	0.914	-92.8	59.7	35.9	24.1	23.7	106.49133	5-6
7	-3.535	9.396	1421.40312	-98.3	-2.0	-90.3	85.9	23.20886	0.914	-87.5	59.7	35.9	24.1	23.7	92.84413	6-7
8	-1.999	7.819	1406.98676	-108.3	-2.6	-90.6	81.8	22.89595	0.934	-85.1	58.2	37.9	21.5	19.9	66.63714	7-8
9	-1.988	11.185	1448.54985	-104.0	-2.7	-90.2	82.5	23.62227	0.882	-84.7	61.5	34.2	28.3	27.0	101.87944	8-9
10	-1.942	14.910	1507.27222	-101.4	-2.7	-89.7	83.0	24.52749	0.816	-84.1	65.2	30.4	35.6	34.4	112.77503	9-10
11	-5.182	14.785	1500.36902	-90.3	-0.9	-90.2	89.7	24.47373	0.822	-90.2	65.1	30.2	34.9	34.9	98.21962	10-11
12	-8.423	14.788	1506.63037	-79.2	1.0	-90.8	6.4	24.51689	0.817	-96.3	65.2	30.5	35.6	34.3	98.15586	11-12
13	-8.229	11.033	1447.97900	-76.6	0.2	-90.3	6.9	23.61296	0.883	-95.7	61.5	34.2	28.3	26.9	112.70439	12-13
14	-8.047	7.642	1406.46327	-72.5	-0.5	-89.9	7.5	22.88757	0.935	-95.2	58.1	37.9	21.4	19.9	101.82755	13-14
15	-5.023	7.701	1401.16061	-90.4	-1.6	-90.2	89.6	22.85546	0.940	-90.2	58.1	37.7	20.3	20.3	91.61315	14-15
16	-1.999	7.819	1406.98676	-108.3	-2.6	-90.6	81.8	22.89595	0.934	-85.1	58.2	37.9	21.5	19.9	91.66177	15-16

FEB. 20, 1965 9 HR 45 MIN 50 SEC 669 MS

TAB NO 10

ATLAS PHOTO NO 10

POD SEQUENCE NO 267

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					706.086		1296.29581	-4.598	-0.780	3031.796	2.149	-58.363	74.489			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-4.765	11.711	1388.48079	-91.1	-1.4	-90.4	88.9	22.69699	0.882	-90.2	62.1	34.0	28.1	28.1	0.	1-2
3	-3.252	10.099	1368.03642	-98.8	-2.1	-90.5	85.3	22.33737	0.908	-87.5	60.4	35.9	24.9	24.6	66.87735	2-3
4	-3.273	13.512	1416.79878	-97.0	-2.0	-90.2	85.6	23.13362	0.849	-87.3	63.8	32.1	32.0	31.4	103.19857	3-4
5	-6.326	13.436	1415.78525	-85.0	-0.4	-90.6	2.2	23.11694	0.851	-93.1	63.8	32.2	31.8	31.6	92.52411	4-5
6	-6.200	10.014	1367.12112	-83.7	-0.9	-90.5	2.3	22.32254	0.909	-92.8	60.4	35.9	24.7	24.4	103.09665	5-6
7	-3.252	10.099	1368.03642	-98.8	-2.1	-90.5	85.3	22.33737	0.908	-87.5	60.4	35.9	24.9	24.4	89.34042	6-7
8	-1.776	8.576	1353.74696	-108.3	-2.7	-90.6	81.4	22.02912	0.929	-85.1	58.9	37.9	22.3	20.7	64.21659	7-8
9	-1.759	11.834	1395.12366	-104.2	-2.8	-90.2	82.1	22.75071	0.876	-84.6	62.2	34.1	29.0	27.6	98.63774	8-9
10	-1.708	15.447	1453.08583	-101.6	-2.9	-89.7	82.6	23.64559	0.810	-84.1	65.8	30.4	36.2	34.9	109.39129	9-10
11	-4.832	15.316	1445.75209	-90.9	-1.1	-90.4	89.0	23.58282	0.817	-90.2	65.6	30.2	35.4	35.4	94.71583	10-11
12	-7.952	15.305	1450.90868	-80.2	0.8	-91.1	5.4	23.60963	0.813	-96.3	65.7	30.5	36.0	34.9	94.50141	11-12
13	-7.766	11.673	1393.19034	-77.9	0.1	-90.6	5.7	22.71920	0.878	-95.7	62.1	34.2	28.8	27.6	109.14864	12-13
14	-7.592	8.397	1351.97769	-74.4	-0.6	-90.3	6.1	22.00080	0.931	-95.2	58.9	37.9	22.0	20.7	98.45948	13-14
15	-4.685	8.458	1347.59325	-91.5	-1.6	-90.5	88.7	21.98167	0.935	-90.2	58.8	37.7	21.1	21.1	88.04811	14-15
16	-1.776	8.576	1353.74696	-108.3	-2.7	-90.6	81.4	22.02912	0.929	-85.1	58.9	37.9	22.3	20.7	88.21138	15-16

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6

FEB. 20, 1965 9 HR 46 MIN 21 SEC 389 MS

TAB NO 11

ATLAS PHOTO NO 11

POD SEQUENCE NO 279

TRAJECTORY DATA								SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ
PHOTO DATA								675.366	1240.03046	-4.420	-0.136	2975.530	2.164	-57.921	74.441	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-4.441	12.352	1334.37093	-91.8	-1.4	-90.6	88.2	21.81248	0.877	-90.2	62.7	34.0	28.7	28.7	0.	1-2
3	-2.989	10.796	1314.34525	-99.2	-2.2	-90.6	84.8	21.46058	0.903	-87.5	61.1	35.9	25.6	25.1	64.37905	2-3
4	-3.004	14.096	1362.50272	-97.3	-2.1	-90.3	85.2	22.24703	0.844	-87.2	64.4	32.1	32.6	32.2	99.80951	3-4
5	-5.940	14.016	1360.92593	-85.8	-0.5	-90.9	1.5	22.22108	0.845	-93.1	64.4	32.1	32.4	32.2	88.96646	4-5
6	-5.821	10.711	1312.92371	-96.8	-1.0	-90.7	1.5	21.43756	0.905	-92.8	61.1	35.9	25.4	25.1	99.64887	5-6
7	-2.989	10.796	1314.34525	-99.2	-2.2	-90.6	84.8	21.46058	0.903	-87.5	61.1	35.9	25.6	25.1	85.82282	6-7
8	-1.573	9.326	1300.17677	-108.2	-2.7	-90.7	81.1	21.15697	0.924	-85.1	59.7	37.9	23.1	21.4	61.78546	7-8
9	-1.551	12.475	1341.24318	-104.3	-2.8	-90.2	81.8	21.87177	0.870	-84.6	62.8	34.1	29.7	28.3	95.33648	8-9
10	-1.495	15.972	1398.30562	-101.8	-3.0	-89.7	82.3	22.75401	0.804	-84.0	66.3	30.4	36.8	35.5	105.91711	9-10
11	-4.502	15.838	1390.69923	-91.5	-1.2	-90.6	88.4	22.68481	0.811	-90.2	66.2	30.2	35.9	35.9	91.17060	10-11
12	-7.501	15.817	1394.91713	-81.0	0.6	-91.4	4.5	22.69803	0.808	-96.3	66.2	30.4	36.4	35.4	90.84046	11-12
13	-7.324	12.308	1338.23854	-79.1	-0.1	-91.0	4.7	21.82279	0.874	-95.7	62.7	34.2	29.3	28.3	105.53511	12-13
14	-7.157	9.150	1297.43216	-76.0	-0.6	-90.6	4.9	21.11305	0.927	-95.2	59.6	37.9	22.6	21.4	95.05559	13-14
15	-4.369	9.211	1293.82518	-92.3	-1.7	-90.7	88.0	21.10462	0.930	-90.1	59.6	37.7	21.9	21.9	84.48690	14-15
16	-1.573	9.326	1300.17677	-108.2	-2.7	-90.7	81.1	21.15697	0.924	-85.1	59.7	37.9	23.1	21.4	84.73754	15-16

FEB. 20, 1965 9 HR 46 MIN 46 SEC 985 MS

TAB NO 12

ATLAS PHOTO NO 12

POD SEQUENCE NO 289

TRAJECTORY DATA						SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA						649.766	1193.06729	-4.265	0.420	2928.567	2.176	-57.541	74.402			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-4.166	12.873	1288.89719	-92.3	-1.5	-90.8	87.7	21.06913	0.872	-90.1	63.2	34.0	29.3	29.2	0.	1-2
3	-2.765	11.365	1269.27797	-99.5	-2.2	-90.6	84.4	20.72464	0.898	-87.5	61.7	35.9	26.2	25.7	62.26510	2-3
4	-2.776	14.568	1316.79886	-97.6	-2.2	-90.4	84.8	21.50075	0.839	-87.2	64.9	32.1	33.1	32.6	96.90854	3-4
5	-5.613	14.484	1314.76677	-86.5	-0.7	-91.1	0.8	21.46730	0.841	-93.1	64.8	32.2	32.8	32.6	85.97547	4-5
6	-5.500	11.279	1267.44818	-85.7	-1.0	-90.9	0.7	20.69501	0.901	-92.8	61.6	35.9	25.9	25.7	96.69950	5-6
7	-2.765	11.365	1269.27797	-99.5	-2.2	-90.6	84.4	20.72464	0.898	-87.5	61.7	35.9	26.2	25.7	82.87338	6-7
8	-1.400	9.941	1255.26640	-108.2	-2.8	-90.7	80.9	20.42582	0.919	-85.1	60.3	37.9	23.7	22.0	59.73568	7-8
9	-1.373	12.996	1295.94905	-104.4	-2.9	-90.3	81.5	21.13292	0.866	-84.6	63.4	34.1	30.3	28.8	92.52306	8-9
10	-1.314	16.395	1352.11649	-101.9	-3.1	-89.7	82.1	22.00228	0.800	-84.0	66.7	30.4	37.2	35.9	102.92680	9-10
11	-4.223	16.257	1344.29637	-91.9	-1.3	-90.7	87.9	21.92789	0.807	-90.2	66.6	30.2	36.4	36.4	88.18330	10-11
12	-7.120	16.228	1347.74846	-81.8	0.4	-91.7	3.8	21.93011	0.805	-96.3	66.6	30.5	36.8	35.9	87.76161	11-12
13	-6.949	12.825	1292.07973	-80.0	-0.2	-91.3	3.9	21.06984	0.870	-95.7	63.2	34.2	29.7	28.8	102.43022	12-13
14	-6.790	9.765	1251.73686	-77.4	-0.7	-90.9	4.0	20.36936	0.924	-95.2	60.2	37.9	23.1	22.1	92.15743	13-14
15	-4.099	9.827	1248.76035	-93.0	-1.7	-90.8	87.4	20.36953	0.926	-90.1	60.2	37.7	22.5	22.5	81.50711	14-15
16	-1.400	9.941	1255.26640	-108.2	-2.8	-90.7	80.9	20.42582	0.919	-85.1	60.3	37.9	23.7	22.0	81.82676	15-16

RA-VIII CAMERA FB

7

FEB. 20, 1965 9 HR 47 MIN 7 SEC 469 MS

TAB NO 13 ATLAS PHOTO NO 13 POD SEQUENCE NO 297

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				629.286		1155.44952	-4.138	0.878	2890.950	2.186	-57.229	74.370				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.946	13.288	1252.35454	-92.8	-1.6	-90.9	87.2	20.47178	0.869	-90.1	63.6	34.0	29.7	29.6	0.	1-2
3	-2.586	11.819	1233.07939	-99.7	-2.3	-90.7	84.0	20.13352	0.895	-87.5	62.2	35.9	26.7	26.1	60.56215	2-3
4	-2.593	14.944	1280.03542	-97.9	-2.3	-90.4	84.5	20.90045	0.835	-87.2	65.3	32.2	33.4	33.0	94.55639	3-4
5	-5.351	14.857	1277.65784	-87.0	-0.8	-91.3	0.3	20.86132	0.838	-93.1	65.2	32.2	33.1	33.0	83.57191	4-5
6	-5.243	11.732	1230.74057	-86.4	1.1	-91.1	0.2	20.93889	0.857	-92.8	62.1	35.9	26.5	26.2	94.30591	5-6
7	-2.586	11.819	1233.07939	-99.7	-2.3	-90.7	84.0	20.13352	0.895	-87.5	62.2	35.9	26.7	26.1	80.50654	6-7
8	-1.262	10.432	1219.21326	-108.1	-2.8	-90.7	80.7	19.83888	0.916	-85.1	60.8	37.9	24.2	22.5	58.08630	7-8
9	-1.231	13.412	1259.53442	-104.5	-3.0	-90.3	81.3	20.53892	0.862	-84.6	63.8	34.2	30.7	29.2	90.24612	8-9
10	-1.170	16.730	1314.92635	-102.1	-3.1	-89.8	81.9	21.39703	0.796	-84.0	67.1	30.4	37.6	36.2	100.49578	9-10
11	-3.999	16.590	1306.95291	-92.3	-1.4	-90.8	87.5	21.31874	0.804	-90.2	66.9	30.2	36.7	36.7	85.77879	10-11
12	-6.814	16.554	1309.81490	-82.4	0.3	-91.9	3.2	21.31255	0.802	-96.3	66.9	30.5	37.0	36.2	85.28900	11-12
13	-6.649	13.236	1255.00996	-80.8	-0.3	-91.5	3.2	20.46517	0.867	-95.7	63.6	34.2	30.1	29.2	99.91089	12-13
14	-6.495	10.256	1215.09061	-78.4	-0.8	-91.2	3.3	19.77295	0.921	-95.2	60.7	37.9	23.5	22.6	89.81491	13-14
15	-3.883	10.318	1212.59821	-93.5	-1.8	-90.9	86.9	19.77965	0.923	-90.1	60.7	37.7	23.0	22.9	79.12000	14-15
16	-1.262	10.432	1219.21326	-108.1	-2.8	-90.7	80.7	19.83888	0.916	-85.1	60.8	37.9	24.2	22.5	79.49053	15-16

TAB NO 14 ATLAS PHOTO NO 14 POD SEQUENCE NO 305

FEB. 20,1965				4 HR 47 MIN 27 SEC 949 MS				TRAJECTORY DATA				SEC TO IMPACT				ALT				LAT				LON				R				V				PTH				AZ																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
												608.806				1117.79123				-4.006				1.348				2853.291				2.196				-56.910				74.339																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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8

FEB. 20, 1965 9 HR 47 MIN 48 SEC 429 MS

TAB NO 15 ATLAS PHOTO NO 15 POD SEQUENCE NO 313

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				588.326		1080.09439	-3.871	1.830	2815.594	2.206	-56.583	74.308				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.502	14.129	1179.06227	-93.6	-1.8	-91.1	86.4	19.27370	0.861	-90.1	64.5	34.0	30.5	30.5	0.	1-2
3	-2.224	12.740	1160.49129	-100.2	-2.4	-90.8	83.4	18.94817	0.887	-87.5	63.1	35.9	27.6	27.0	57.14449	2-3
4	-2.225	15.707	1206.24657	-98.4	-2.4	-90.6	83.9	19.69558	0.827	-87.2	66.4	32.2	34.3	33.7	89.81897	3-4
5	-4.823	15.614	1203.22528	-88.1	-1.0	-91.6	89.3	19.64585	0.831	-93.0	66.0	32.2	33.9	33.8	78.75414	4-5
6	-4.724	12.650	1157.77879	-87.7	-1.3	-91.4	89.1	18.90426	0.891	-92.8	63.0	35.9	27.2	27.1	89.50072	5-6
7	-2.224	12.740	1160.49129	-100.2	-2.4	-90.8	83.4	18.94817	0.887	-87.5	63.1	35.9	27.6	27.0	54.77536	6-7
8	-0.980	11.426	1146.93936	-108.1	-2.9	-90.7	80.3	18.66228	0.908	-85.1	61.8	37.9	25.3	23.5	75.76747	7-8
9	-0.944	14.255	1186.46112	-104.7	-3.1	-90.3	80.9	19.34697	0.854	-84.6	64.6	34.2	31.6	30.0	85.66340	8-9
10	-0.879	17.410	1240.23412	-102.3	-3.3	-89.8	81.5	20.18143	0.788	-84.0	67.8	30.4	38.3	36.9	95.59466	9-10
11	-3.547	17.266	1231.99435	-93.0	-1.7	-91.0	86.7	20.09602	0.796	-90.1	67.6	30.2	37.4	37.4	80.95201	10-11
12	-6.199	17.217	1233.73636	-83.5	-0.0	-92.3	2.0	20.07401	0.796	-96.3	67.6	30.5	37.6	36.9	80.33902	11-12
13	-6.045	14.071	1180.71878	-82.3	-0.5	-91.9	1.9	19.25336	0.861	-95.7	64.4	34.2	30.8	30.1	94.84099	12-13
14	-5.901	11.250	1141.71878	-80.4	-0.9	-91.6	1.8	18.57884	0.915	-95.2	61.6	37.9	24.3	23.6	85.10643	13-14
15	-3.447	11.315	1140.14153	-94.5	-1.9	-91.2	86.0	18.59774	0.916	-90.1	61.7	37.7	24.0	23.9	74.34635	14-15
16	-0.980	11.426	1146.93936	-108.1	-2.9	-90.7	80.3	18.66228	0.908	-85.1	61.8	37.9	25.3	23.5	74.80904	15-16

FEB. 20, 1965 9 HR 48 MIN 8 SEC 909 MS

TAB NO 16 ATLAS PHOTO NO 16 POD SEQUENCE NO 321

TRAJECTORY DATA				SEC TO IMPACT			ALT	LAT	LON	R	V	PTH	AZ			
				567.847			1042.36060	-3.732	2.325	2777.861	2.217	-56.247	74.278			
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.279	14.552	1142.23885	-94.0	-1.9	-91.2	86.0	18.67176	0.858	-90.1	64.9	34.0	31.0	30.9	0.	1-2
3	-2.043	13.202	1124.03418	-100.4	-2.5	-90.9	83.1	18.35283	0.883	-87.5	63.6	35.9	28.1	27.5	55.42480	2-3
4	-2.040	16.090	1169.13171	-98.6	-2.5	-90.6	83.6	19.08955	0.823	-87.2	66.4	32.2	34.7	34.1	87.41801	3-4
5	-4.559	15.994	1165.82050	-88.6	-1.1	-91.7	88.8	19.03504	0.828	-93.0	66.3	32.2	34.2	34.2	76.33377	4-5
6	-4.464	13.112	1121.06435	-88.3	-1.3	-91.6	88.5	18.30477	0.887	-92.7	63.5	35.9	27.6	27.5	87.06639	5-6
7	-2.043	13.202	1124.03418	-100.4	-2.5	-90.9	83.1	18.35283	0.883	-87.5	63.6	35.9	28.1	27.5	73.86688	6-7
8	-0.839	11.926	1110.65631	-108.0	-2.9	-90.7	80.1	18.07162	0.904	-85.0	62.3	37.9	25.8	24.0	53.11355	7-8
9	-0.800	14.678	1149.72025	-104.7	-3.1	-90.3	80.7	18.74767	0.849	-84.6	65.1	34.2	32.0	30.4	83.34406	8-9
10	-0.733	17.751	1202.62381	-102.4	-3.4	-89.8	81.3	19.56936	0.784	-84.0	68.1	30.4	38.7	37.2	93.10471	9-10
11	-3.321	17.605	1194.28094	-93.3	-1.8	-91.1	86.4	19.48084	0.793	-90.1	67.9	30.2	37.7	37.7	78.52192	10-11
12	-5.891	17.549	1195.50116	-84.1	-0.2	-92.4	1.5	19.45157	0.793	-96.2	67.9	30.5	37.9	37.3	77.85531	11-12
13	-5.742	14.491	1143.43068	-81.0	-0.6	-92.1	1.3	18.64514	0.858	-95.6	64.9	34.2	31.1	30.5	92.27295	12-13
14	-5.604	11.750	1104.94473	-81.3	-1.0	-91.8	1.2	17.98035	0.912	-95.1	62.1	37.9	24.7	24.1	82.72857	13-14
15	-3.229	11.815	1103.79201	-94.9	-1.9	-91.3	85.6	18.00481	0.912	-90.1	62.2	37.7	24.5	24.4	71.95661	14-15
16	-0.839	11.926	1110.65631	-108.0	-2.9	-90.7	80.1	18.07162	0.904	-85.0	62.3	37.9	25.8	24.0	72.45909	15-16

RA-VIII CAMERA FB

9

FEB. 20, 1965 9 HR 46 MIN 29 SEC 389 MS

TAB NO 17

ATLAS PHOTO NO 17

POD SEQUENCE NO 329

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					547.367		1004.59225	-3.589	2.834	2740.092	2.228	-55.903	74.247			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.056	14.974	1105.25282	-94.4	-1.9	-91.3	85.6	18.06717	0.854	-90.1	65.3	34.0	31.4	31.3	0.	1-2
3	-1.860	13.664	1087.43333	-100.7	-2.5	-90.9	82.8	17.75515	0.879	-87.4	64.0	35.9	28.6	28.0	53.69294	2-3
4	-1.855	16.471	1131.82257	-98.9	-2.6	-90.7	83.3	18.48035	0.819	-87.2	66.8	32.2	35.1	34.5	89.98650	3-4
5	-4.293	16.372	1128.23497	-89.1	-1.2	-91.9	88.3	18.42128	0.824	-93.0	66.7	32.2	34.6	34.5	73.90246	4-5
6	-4.202	13.573	1084.21873	-88.9	-1.4	-91.7	88.0	17.70313	0.883	-92.7	63.9	35.9	28.1	28.0	84.60252	5-6
7	-1.860	13.664	1087.43333	-100.7	-2.5	-90.9	82.8	17.75515	0.879	-87.4	64.0	35.9	28.6	28.0	71.00034	6-7
8	-0.697	12.426	1074.24933	-108.0	-3.0	-90.7	79.9	17.47895	0.900	-85.0	62.8	37.9	26.3	24.5	51.44002	7-8
9	-0.656	15.100	1112.80594	-104.8	-3.2	-90.3	80.5	18.14555	0.845	-84.5	65.5	34.2	32.5	30.9	80.99876	8-9
10	-0.587	18.090	1164.78638	-102.6	-3.5	-89.8	81.1	18.95357	0.780	-84.0	68.5	30.4	39.1	37.6	90.57799	9-10
11	-3.094	17.942	1156.35266	-93.7	-1.9	-91.2	86.0	18.86216	0.789	-90.1	68.3	30.2	38.1	38.0	76.07788	10-11
12	-5.581	17.880	1157.06790	-84.7	-0.4	-92.6	0.9	18.82592	0.789	-96.2	68.2	30.5	38.2	37.6	75.36125	11-12
13	-5.438	14.909	1105.99548	-83.7	-0.7	-92.3	0.7	18.03453	0.854	-95.6	65.3	34.2	31.5	31.0	89.67069	12-13
14	-5.304	12.249	1068.07146	-82.2	-1.0	-92.0	0.5	17.38026	0.909	-95.1	62.6	37.9	25.2	24.6	80.32642	13-14
15	-3.009	12.316	1067.32843	-95.4	-2.0	-91.4	85.2	17.41002	0.908	-90.1	62.7	37.7	25.0	24.9	69.56218	14-15
16	-0.697	12.426	1074.24933	-108.0	-3.0	-90.7	79.9	17.47895	0.900	-85.0	62.8	37.9	26.3	24.5	70.10168	15-16

FEB. 20, 1965 9 HR 46 MIN 47 SEC 007 MS

TAB NO 18

ATLAS PHOTO NO 18

POD SEQUENCE NO 337

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					526.887		966.79150	-3.442	3.357	2702.292	2.239	-55.551	74.217			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.829	15.394	1068.09558	-94.8	-2.0	-91.4	85.2	17.45977	0.850	-90.1	65.7	34.0	31.8	31.7	0.	1-2
3	-1.675	14.125	1050.68269	-100.9	-2.6	-91.0	82.5	17.15503	0.875	-87.4	64.5	35.9	29.1	28.4	51.94764	2-3
4	-1.667	16.851	1094.31181	-99.1	-2.7	-90.7	83.0	17.86786	0.815	-87.2	67.2	32.1	35.5	34.9	82.52300	3-4
5	-4.024	16.748	1090.45724	-89.6	-1.4	-92.0	87.8	17.80438	0.820	-93.0	67.1	32.2	35.0	34.9	71.46004	4-5
6	-3.938	14.032	1047.23213	-89.5	-1.5	-91.9	87.5	17.09920	0.880	-92.7	64.4	35.9	28.5	28.5	82.10723	5-6
7	-1.675	14.125	1050.68269	-100.9	-2.6	-91.0	82.5	17.15503	0.875	-87.4	64.5	35.9	29.1	28.4	68.60571	6-7
8	-0.553	12.925	1037.71463	-108.0	-3.0	-90.7	79.7	16.88422	0.896	-85.0	63.3	37.9	26.9	25.0	49.75568	7-8
9	-0.509	15.521	1075.71364	-104.9	-3.3	-90.3	80.3	17.54054	0.841	-84.5	65.9	34.1	32.9	31.3	78.62636	8-9
10	-0.439	18.426	1126.71605	-102.7	-3.6	-89.8	80.9	18.33401	0.776	-83.9	68.8	30.4	39.4	37.9	88.01314	9-10
11	-2.865	18.276	1118.19923	-94.1	-2.0	-91.3	85.6	18.23980	0.785	-90.1	68.6	30.2	38.4	38.4	73.61992	10-11
12	-5.269	18.208	1118.42204	-85.2	-0.5	-92.8	0.3	18.19681	0.786	-96.2	68.6	30.4	38.5	38.0	72.85621	11-12
13	-5.131	15.326	1068.40065	-84.4	-0.8	-92.5	0.1	17.42133	0.851	-95.6	65.7	34.2	31.9	31.4	87.03197	12-13
14	-5.002	12.747	1031.08815	-83.1	-1.1	-92.2	89.8	16.77838	0.906	-95.1	63.1	37.9	25.6	25.1	77.89811	13-14
15	-2.786	12.815	1030.74347	-95.9	-2.1	-91.5	84.8	16.81325	0.904	-90.1	63.2	37.7	25.5	25.4	67.16238	14-15
16	-0.553	12.925	1037.71463	-108.0	-3.0	-90.7	79.7	16.88422	0.896	-85.0	63.3	37.9	26.9	25.0	67.73678	15-16

RA-VIII CAMERA FB

10

FEB. 20, 1965 9 HR 49 MIN 5 SEC 229 MS

TAB NO 19

ATLAS PHOTO NO 19

POD SEQUENCE NO 343

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					511.527		938.42102	-3.328	3.759	2673.921	2.248	-55.281	74.195			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.658	15.705	1040.05045	-95.1	-2.1	-91.5	84.9	17.00133	0.847	-90.1	66.1	34.0	32.2	32.1	0.	1-2
3	-1.535	14.466	1022.96014	-101.1	-2.7	-91.0	82.3	16.70234	0.872	-87.4	64.8	35.9	29.5	28.8	50.62586	2-3
4	-1.525	17.130	1065.96729	-99.3	-2.8	-90.7	82.8	17.40504	0.812	-87.1	67.5	32.2	35.8	35.2	80.64065	3-4
5	-3.821	17.025	1061.92871	-90.0	-1.5	-92.1	87.4	17.33853	0.818	-93.0	67.4	32.2	35.2	35.2	69.61546	4-5
6	-3.738	14.373	1019.34718	-90.0	-1.6	-92.0	87.1	16.64388	0.877	-92.7	64.7	35.9	28.9	28.8	80.20267	5-6
7	-1.535	14.466	1022.96014	-101.1	-2.7	-91.0	82.3	16.70234	0.872	-87.4	64.8	35.9	29.5	28.8	66.80025	6-7
8	-0.443	13.296	1010.17149	-108.0	-3.1	-90.7	79.6	16.43587	0.893	-85.0	63.7	37.9	27.2	25.4	48.48179	7-8
9	-0.398	15.831	1047.70282	-105.0	-3.3	-90.3	80.2	17.08366	0.838	-84.5	66.2	34.2	33.3	31.6	76.81716	8-9
10	-0.327	18.671	1097.91414	-102.8	-3.6	-89.8	80.7	17.86529	0.773	-83.9	69.1	30.4	39.7	38.1	86.04718	9-10
11	-2.691	18.521	1089.35173	-94.3	-2.1	-91.4	85.3	17.76924	0.782	-90.1	68.9	30.2	38.7	38.6	71.76023	10-11
12	-5.033	18.448	1089.22354	-85.7	-0.7	-93.0	89.9	17.72152	0.784	-96.2	68.8	30.4	38.7	38.2	70.96482	11-12
13	-4.899	15.634	1040.04381	-84.9	-0.9	-92.6	89.6	16.95882	0.848	-95.6	66.0	34.2	32.2	31.7	85.01453	12-13
14	-4.775	13.117	1003.23670	-83.8	-1.2	-92.4	89.4	16.32512	0.903	-95.1	63.5	37.9	25.9	25.5	76.04970	13-14
15	-2.618	13.186	1003.17542	-96.2	-2.1	-91.5	84.5	16.36355	0.901	-90.1	63.5	37.7	25.9	25.8	65.35614	14-15
16	-0.443	13.296	1010.17149	-108.0	-3.1	-90.7	79.6	16.43587	0.893	-85.0	63.7	37.9	27.2	25.4	65.95372	15-16

FEB. 20, 1965 9 HR 49 MIN 20 SEC 589 MS

TAB NO 20

ATLAS PHOTO NO 20

POD SEQUENCE NO 349

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					496.167		910.03513	-3.212	4.169	2645.535	2.257	-55.005	74.173			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.492	16.012	1011.85290	-95.4	-2.2	-91.5	84.6	16.54039	0.844	-90.0	66.4	34.0	32.5	32.4	0.	1-2
3	-1.400	14.805	995.09177	-101.2	-2.7	-91.0	82.1	16.24727	0.869	-87.4	65.2	35.9	29.8	29.1	49.29579	2-3
4	-1.389	17.405	1037.43408	-99.5	-2.9	-90.8	82.6	16.93914	0.809	-87.1	67.8	32.2	36.1	35.4	78.72863	3-4
5	-3.623	17.299	1033.24167	-90.4	-1.6	-92.2	87.1	16.87009	0.815	-93.0	67.7	32.2	35.5	35.5	67.75892	4-5
6	-3.563	14.711	991.34341	-90.4	-1.7	-92.1	86.7	16.18663	0.874	-92.7	65.1	35.9	29.2	29.2	78.27158	5-6
7	-1.400	14.805	995.09177	-101.2	-2.7	-91.0	82.1	16.24727	0.869	-87.4	65.2	35.9	29.8	29.1	64.98568	6-7
8	-0.339	13.663	982.48962	-108.0	-3.1	-90.6	79.5	15.98527	0.890	-85.0	64.1	37.9	27.6	25.7	47.20022	7-8
9	-0.292	16.138	1019.51173	-105.0	-3.4	-90.3	80.0	16.62386	0.835	-84.5	66.5	34.2	33.6	31.9	74.98137	8-9
10	-0.221	18.912	1068.88332	-102.9	-3.7	-89.8	80.6	17.39285	0.770	-83.9	69.3	30.4	39.9	38.4	84.04410	9-10
11	-2.523	18.761	1060.30733	-94.6	-2.2	-91.4	85.0	17.29547	0.779	-90.1	69.1	30.2	38.9	38.9	69.06344	10-11
12	-4.802	18.685	1059.86127	-86.1	-0.8	-93.1	89.5	17.24358	0.782	-96.2	69.0	30.5	38.9	38.4	69.08363	11-12
13	-4.672	15.939	1011.56395	-85.4	-1.0	-92.8	89.2	16.49341	0.846	-95.6	66.3	34.2	32.4	32.0	82.96767	12-13
14	-4.551	13.485	975.29854	-84.4	-1.3	-92.5	88.9	15.87046	0.901	-95.1	63.9	37.9	26.3	25.9	74.18025	13-14
15	-2.454	13.555	975.49371	-96.5	-2.2	-91.6	84.2	15.91201	0.898	-90.0	63.9	37.7	26.3	26.2	63.54404	14-15
16	-0.339	13.663	982.48962	-108.0	-3.1	-90.6	79.5	15.98527	0.890	-85.0	64.1	37.9	27.6	25.7	64.16060	15-16

RA-VIII CAMERA FB

11

FEB. 20,1965 9 HR 49 MIN 35 SEC 949 MS TAB NO 21 ATLAS PHOTO NO 21 POD SEQUENCE NO 355

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				480.807	881.63477	-3.094	4.589	2617.135	2.265	-54.724	74.152					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-2.325	16.318	983.54252	-95.6	-2.3	-91.6	84.4	16.07761	0.841	-90.0	66.7	34.0	32.8	32.7	0.	1-2
3	-1.264	15.142	967.11899	-101.4	-2.8	-91.0	81.9	15.79049	0.865	-87.4	65.5	35.9	30.2	29.4	47.95844	2-3
4	-1.251	17.678	1008.76577	-99.6	-2.9	-90.8	82.4	16.47103	0.806	-87.1	68.1	32.2	36.4	35.7	76.79574	3-4
5	-3.424	17.571	1004.43416	-90.7	-1.6	-92.3	86.8	16.39969	0.812	-93.0	67.9	32.2	35.8	35.8	65.89420	4-5
6	-3.347	15.049	963.24837	-90.8	-1.7	-92.2	86.4	15.72788	0.871	-92.7	65.4	35.9	29.5	29.5	76.32113	5-6
7	-1.264	15.142	967.11899	-101.4	-2.8	-91.0	81.9	15.79049	0.865	-87.4	65.5	35.9	30.2	29.4	63.16483	6-7
8	-0.234	14.031	954.71244	-108.0	-3.2	-90.6	79.4	15.53314	0.887	-85.0	64.4	37.9	28.0	26.1	45.91238	7-8
9	-0.186	16.444	991.19512	-105.1	-3.4	-90.2	79.9	16.16202	0.832	-84.5	66.8	34.2	33.9	32.2	73.12710	8-9
10	-0.114	19.151	1039.69380	-103.0	-3.7	-89.8	80.4	16.91783	0.767	-83.9	69.6	30.5	40.2	38.6	82.01602	9-10
11	-2.354	19.000	1031.11877	-94.8	-2.3	-91.5	84.8	16.81934	0.777	-90.0	69.4	30.2	39.2	39.1	67.15449	10-11
12	-4.569	18.920	1030.37196	-86.5	-0.9	-93.2	89.1	16.76358	0.779	-96.2	69.3	30.5	39.1	38.7	80.89943	12-13
13	-4.443	16.244	982.98650	-85.9	-1.1	-92.9	88.8	16.02822	0.843	-95.6	66.6	34.2	32.7	32.3	72.29478	13-14
14	-4.327	13.853	947.29055	-85.0	-1.3	-92.7	88.5	15.41465	0.898	-95.1	64.2	37.9	26.6	26.2	61.72866	14-15
15	-2.290	13.923	947.72809	-96.8	-2.2	-91.7	83.9	15.45910	0.895	-90.0	64.3	37.7	26.7	26.5	62.36101	15-16
16	-0.234	14.031	954.71244	-108.0	-3.2	-90.6	79.4	15.53314	0.887	-85.0	64.4	37.9	28.0	26.1	62.36101	15-16

FEB. 20,1965 9 HR 49 MIN 51 SEC 308 MS TAB NO 22 ATLAS PHOTO NO 22 POD SEQUENCE NO 361

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				465.447	853.22165	-2.972	5.017	2588.722	2.274	-54.437	74.131					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-2.155	16.629	955.21410	-95.9	-2.4	-91.7	84.1	15.61454	0.838	-90.0	67.0	34.0	33.1	33.0	0.	1-2
3	-1.125	15.485	939.13837	-101.6	-2.8	-91.1	81.7	15.33359	0.862	-87.4	65.9	35.9	30.5	29.8	46.61732	2-3
4	-1.111	17.957	980.08532	-99.8	-3.0	-90.8	82.2	16.00273	0.803	-87.1	68.3	32.2	36.7	36.0	74.86225	3-4
5	-3.222	17.848	975.59970	-91.1	-1.8	-92.4	86.4	15.92884	0.809	-92.9	68.2	32.2	36.1	36.0	64.03023	4-5
6	-3.148	15.390	935.13267	-91.3	-1.8	-92.3	86.0	15.26880	0.868	-92.7	65.8	35.9	29.9	29.8	74.36812	5-6
7	-1.125	15.485	939.13837	-101.6	-2.8	-91.1	81.7	15.33359	0.862	-87.4	65.9	35.9	30.5	29.8	61.34471	6-7
8	-0.125	14.403	926.93890	-108.0	-3.2	-90.6	79.2	15.08105	0.883	-85.0	64.8	37.9	28.4	26.5	44.62192	7-8
9	-0.076	16.756	962.87661	-105.2	-3.5	-90.2	79.8	15.70014	0.828	-84.5	67.2	34.2	34.3	32.5	71.27280	8-9
10	-0.004	19.396	1010.50223	-103.1	-3.8	-89.8	80.3	16.44278	0.764	-83.9	69.8	30.4	40.5	38.9	79.98976	9-10
11	-2.181	19.243	1001.90932	-95.1	-2.4	-91.6	84.5	16.34288	0.774	-90.0	69.6	30.2	39.4	39.3	66.11189	10-11
12	-4.334	19.159	1000.84842	-86.9	-1.1	-93.3	88.7	16.29302	0.777	-96.2	69.5	30.5	39.3	38.9	65.24562	11-12
13	-4.211	16.552	954.37948	-86.4	-1.2	-93.0	88.4	15.56164	0.841	-95.6	66.9	34.2	33.0	32.7	78.82845	12-13
14	-4.098	14.225	919.26188	-85.7	-1.4	-92.8	88.0	14.95852	0.895	-95.1	64.6	37.9	26.9	26.6	70.40587	13-14
15	-2.122	14.296	919.95182	-97.1	-2.3	-91.7	83.6	15.00601	0.892	-90.0	64.7	37.7	27.1	26.9	59.91322	14-15
16	-0.125	14.403	926.93890	-108.0	-3.2	-90.6	79.2	15.08105	0.883	-85.0	64.8	37.9	28.4	26.5	60.56340	15-16

RA-VIII CAMERA FB

12

FEB. 20,1965 9 HR 50 MIN 6 SEC 668 MS TAB NO 23 ATLAS PHOTO NO 23 POD SEQUENCE NO 367

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				450.087	824.79688	-2.848	5.455	2560.297	2.284	-54.145	74.110					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-1.986	16.932	926.64362	-96.2	-2.4	-91.7	83.8	15.14751	0.835	-90.0	67.3	34.0	33.4	33.3	0.	1-2
3	-0.987	15.820	910.93331	-101.7	-2.9	-91.1	81.4	14.87303	0.859	-87.4	66.2	35.9	30.9	30.1	45.26029	2-3
4	-0.971	18.227	951.11472	-100.0	-3.1	-90.9	81.9	15.52969	0.800	-87.1	68.6	32.2	36.9	36.2	72.88099	3-4
5	-3.020	18.117	946.50450	-91.4	-1.9	-92.5	86.1	15.45375	0.807	-92.9	68.5	32.2	36.3	36.3	62.14763	4-5
6	-2.949	15.725	906.81854	-91.7	-1.9	-92.4	85.7	14.80648	0.865	-92.7	66.1	35.9	30.2	30.2	72.37068	5-6
7	-0.987	15.820	910.93331	-101.7	-2.9	-91.1	81.4	14.87303	0.859	-87.4	66.2	35.9	30.9	30.1	59.51008	6-7
8	-0.018	14.768	898.95776	-108.0	-3.3	-90.6	79.1	14.62561	0.880	-85.0	65.2	37.9	28.8	26.8	43.31773	7-8
9	0.032	17.058	934.28858	-105.2	-3.6	-90.2	79.6	15.23389	0.825	-84.5	67.5	34.2	34.6	32.8	69.37646	8-9
10	0.104	19.629	980.96588	-103.2	-3.9	-89.7	80.1	15.96213	0.761	-83.9	70.0	30.5	40.7	39.1	77.90455	9-10
11	-2.010	19.477	972.38729	-95.4	-2.5	-91.6	84.2	15.86131	0.771	-90.0	69.8	30.3	39.7	39.6	64.20288	10-11
12	-4.699	19.389	971.04414	-87.3	-1.2	-93.5	88.3	15.79791	0.775	-96.1	69.7	30.5	39.5	39.2	63.31856	11-12
13	-3.980	16.853	925.55840	-86.9	-1.3	-93.2	88.0	15.09159	0.838	-95.6	67.2	34.2	33.3	33.0	76.70678	12-13
14	-3.871	14.590	891.07536	-86.3	-1.5	-93.0	87.6	14.49983	0.893	-95.1	65.0	37.9	27.3	27.0	68.48070	13-14
15	-1.955	14.662	891.99229	-97.4	-2.4	-91.8	83.3	14.54994	0.889	-90.0	65.0	37.7	27.5	27.3	58.08737	14-15
16	-0.018	14.768	898.95776	-108.0	-3.3	-90.6	79.1	14.62561	0.880	-85.0	65.2	37.9	28.8	26.8	58.75101	15-16

FEB. 20,1965 9 HR 50 MIN 22 SEC 28 MS TAB NO 24 ATLAS PHOTO NO 24 POD SEQUENCE NO 373

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				434.727	796.36212	-2.720	5.903	2531.862	2.293	-53.846	74.090					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-1.818	17.246	898.15134	-96.5	-2.5	-91.8	83.5	14.68175	0.831	-90.0	67.6	34.0	33.8	33.6	0.	1-2
3	-0.851	16.166	882.79011	-101.9	-3.0	-91.1	81.3	14.41348	0.856	-87.4	66.6	35.9	31.3	30.5	43.91232	2-3
4	-0.834	18.508	922.23067	-100.2	-3.2	-90.9	81.7	15.05806	0.797	-87.1	68.9	32.2	37.3	36.5	70.91961	3-4
5	-2.821	18.396	917.50880	-91.8	-2.0	-92.6	85.7	14.98027	0.804	-92.9	68.8	32.2	36.6	36.6	60.27096	4-5
6	-2.753	16.071	878.57818	-92.1	-2.0	-92.5	85.3	14.34536	0.862	-92.7	66.4	35.9	30.5	30.5	70.39402	5-6
7	-0.851	16.166	882.79011	-101.9	-3.0	-91.1	81.3	14.41348	0.856	-87.4	66.6	35.9	31.3	30.5	57.67986	6-7
8	-0.088	15.145	871.02599	-108.0	-3.3	-90.6	79.0	14.17097	0.877	-85.0	65.6	37.9	29.2	27.2	42.02005	7-8
9	0.138	17.372	905.76888	-105.3	-3.6	-90.2	79.5	14.76874	0.822	-84.5	67.8	34.2	34.9	33.1	67.49567	8-9
10	0.210	19.875	951.52998	-103.3	-4.0	-89.7	80.0	15.48310	0.758	-83.9	70.3	30.4	41.0	39.3	75.84493	9-10
11	-1.841	19.722	942.97568	-95.6	-2.6	-91.7	84.0	15.38155	0.768	-90.0	70.1	30.2	39.9	39.8	62.30024	10-11
12	-3.866	19.632	941.36717	-87.7	-1.3	-93.6	87.9	15.31487	0.772	-96.1	70.0	30.4	39.7	39.4	61.40038	11-12
13	-3.751	17.166	896.83086	-87.4	-1.5	-93.3	87.5	14.62305	0.835	-95.5	67.5	34.2	33.6	33.3	74.61254	12-13
14	-3.646	14.966	862.96216	-86.9	-1.6	-93.1	87.2	14.04231	0.890	-95.1	65.3	37.9	27.6	27.4	66.57272	13-14
15	-1.789	15.039	864.09180	-97.7	-2.4	-91.9	83.0	14.09482	0.886	-90.0	65.4	37.7	27.9	27.6	56.28680	14-15
16	0.088	15.145	871.02599	-108.0	-3.3	-90.6	79.0	14.17097	0.877	-85.0	65.6	37.9	29.2	27.2	56.94180	15-16

RA-VIII CAMERA FB

13

FEB. 20, 1965 9 HR 50 MIN 37 SEC 388 MS

TAB NO 25

ATLAS PHOTO NO 25

POD SEQUENCE NO 379

TRAJECTORY DATA						SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
PHOTO DATA						419.367		767.91922	-2.590	6.361	2503.419	2.303	-53.541	74.070		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-1.650	17.552	869.40605	-96.8	-2.6	-91.8	83.2	14.21186	0.828	-90.0	67.9	34.0	34.1	33.9	0.	1- 2
3	-0.714	16.504	854.41819	-102.0	-3.0	-91.1	81.1	13.95019	0.852	-87.3	66.9	35.9	31.6	30.8	42.54575	2- 3
4	-0.696	18.780	893.05046	-100.3	-3.3	-90.9	81.5	14.58160	0.794	-87.1	69.2	32.2	37.5	36.8	68.90873	3- 4
5	-2.620	18.667	888.23409	-92.1	-2.1	-92.7	85.4	14.50225	0.801	-92.9	69.0	32.2	36.9	36.9	58.37546	4- 5
6	-2.555	16.409	850.12452	-92.5	-2.1	-92.6	85.0	13.88076	0.859	-92.6	66.8	35.9	30.9	30.9	68.36998	5- 6
7	-0.714	16.504	854.41819	-102.0	-3.0	-91.1	81.1	13.95019	0.852	-87.3	66.9	35.9	31.6	30.8	55.83513	6- 7
8	0.193	15.513	842.88861	-108.0	-3.4	-90.6	78.8	13.71300	0.873	-84.9	65.9	37.9	29.6	27.6	40.70677	7- 8
9	0.244	17.677	876.98048	-105.4	-3.7	-90.2	79.9	14.29922	0.818	-84.5	68.1	34.2	35.2	33.4	65.57181	8- 9
10	0.316	20.110	921.74911	-103.4	-4.0	-89.7	79.4	14.99848	0.755	-83.9	70.5	30.4	41.2	39.6	73.72539	9- 10
11	-1.671	19.958	913.23795	-95.9	-2.7	-91.8	83.7	14.89647	0.765	-90.0	70.3	30.2	40.2	40.1	60.37407	10- 11
12	-3.632	19.864	911.38298	-88.1	-1.5	-93.7	87.5	14.82685	0.770	-96.1	70.2	30.4	40.0	39.7	59.46281	11- 12
13	-3.521	17.470	867.86676	-87.8	-1.6	-93.4	87.1	14.15067	0.832	-95.5	67.8	34.2	33.8	33.6	72.46364	12- 13
14	-3.419	15.335	834.67178	-87.4	-1.7	-93.2	86.7	13.58193	0.887	-95.1	65.7	37.9	28.0	27.8	64.62526	13- 14
15	-1.624	15.408	835.99919	-98.0	-2.5	-91.9	82.8	13.63588	0.883	-90.0	65.8	37.7	28.2	28.0	54.43494	14- 15
16	0.193	15.513	842.88861	-108.0	-3.4	-90.6	78.8	13.71300	0.873	-84.9	65.9	37.9	29.6	27.6	55.11849	15- 16

FEB. 20, 1965 9 HR 50 MIN 47 SEC 628 MS

TAB NO 26

ATLAS PHOTO NO 26

POD SEQUENCE NO 383

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					409.127		748.95346	-2.501	6.672	2484.453	2.309	-53.335	74.057			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-1.538	17.756	850.18433	-96.9	-2.7	-91.9	83.1	13.89765	0.826	-90.0	68.1	34.0	34.3	34.1	0.	1- 2
3	-0.623	16.730	835.44852	-102.1	-3.1	-91.2	80.9	13.64044	0.850	-87.3	67.1	35.9	31.9	31.0	41.63133	2- 3
4	-0.605	18.961	873.52797	-100.4	-3.3	-90.9	81.4	14.26284	0.792	-87.1	69.4	32.2	37.7	37.0	67.55811	3- 4
5	-2.487	18.848	868.65701	-92.4	-2.2	-92.8	85.2	14.18258	0.799	-92.9	69.2	32.2	37.1	37.1	57.10740	4- 5
6	-2.423	16.635	831.10780	-92.8	-2.1	-92.7	84.8	13.57025	0.857	-92.6	67.0	35.9	31.1	31.1	67.01142	5- 6
7	-0.623	16.730	835.44852	-102.1	-3.1	-91.2	80.9	13.64044	0.850	-87.3	67.1	35.9	31.9	31.0	54.60197	6- 7
8	0.263	15.759	824.07912	-108.0	-3.4	-90.6	78.8	13.40686	0.871	-84.9	66.2	37.9	29.8	27.8	39.82805	7- 8
9	0.315	17.881	857.72284	-105.4	-3.7	-90.2	79.3	13.99515	0.816	-84.4	68.3	34.2	35.5	33.6	64.28001	8- 9
10	0.387	20.267	961.81516	-103.4	-4.1	-89.7	79.8	14.67409	0.753	-83.9	70.7	30.4	41.4	39.7	72.30068	9- 10
11	-1.558	20.115	893.34090	-96.0	-2.8	-91.8	83.5	14.57191	0.764	-90.0	70.5	30.2	40.4	40.2	59.08449	10- 11
12	-3.476	20.019	891.33156	-88.4	-1.6	-93.8	87.3	14.50051	0.768	-96.1	70.4	30.4	40.1	39.9	58.16719	11- 12
13	-3.368	17.673	848.50800	-88.2	-1.6	-93.5	86.9	13.83495	0.830	-95.5	68.0	34.2	34.0	33.8	71.02144	12- 13
14	-3.268	15.581	815.77490	-87.8	-1.7	-93.3	86.5	13.27441	0.885	-95.0	65.9	37.9	28.2	28.0	63.31918	13- 14
15	-1.513	15.655	817.22605	-98.2	-2.5	-92.0	82.6	13.33035	0.881	-90.0	66.0	37.7	28.5	28.3	53.21147	14- 15
16	0.263	15.759	824.07912	-108.0	-3.4	-90.6	78.8	13.40686	0.871	-84.9	66.2	37.9	29.8	27.8	53.89934	15- 16

RA-VIII CAMERA FB

14

FEB. 20, 1965 9 HR 50 MIN 57 SEC 868 MS

TAB NO 27

ATLAS PHOTO NO 27

POD SEQUENCE NO 387

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					398.887		729.98563	-2.411	6.987	2465.486	2.316	-53.125	74.045			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-1.427	17.956	830.83858	-97.1	-2.7	-91.9	82.9	13.58142	0.824	-90.0	68.3	34.0	34.5	34.3	0.	1- 2
3	-0.533	16.952	816.36636	-102.2	-3.1	-91.2	80.8	13.32885	0.848	-87.3	67.4	35.9	32.1	31.2	40.70787	2- 3
4	-0.514	19.137	853.86091	-100.6	-3.4	-90.9	81.3	13.94171	0.790	-87.1	69.5	32.2	37.9	37.2	66.18338	3- 4
5	-2.353	19.024	848.94361	-92.6	-2.2	-92.8	85.0	13.86069	0.797	-92.9	69.4	32.2	37.2	37.2	55.82998	4- 5
6	-2.292	16.857	811.98566	-93.0	-2.2	-92.7	84.5	13.25802	0.855	-92.6	67.2	35.9	31.3	31.3	65.62986	5- 6
7	-0.533	16.952	816.36636	-102.2	-3.1	-91.2	80.8	13.32885	0.848	-87.3	67.4	35.9	32.1	31.2	53.36134	6- 7
8	0.383	16.002	805.16806	-108.0	-3.4	-90.5	78.7	13.09908	0.869	-84.9	66.4	37.9	30.1	28.1	38.94177	7- 8
9	0.385	18.080	838.33365	-105.4	-3.8	-90.2	79.2	13.66894	0.814	-84.4	68.5	34.2	35.7	33.8	62.96710	8- 9
10	0.457	20.418	881.71334	-103.5	-4.1	-89.7	79.7	14.34697	0.751	-83.8	70.8	30.5	41.6	39.9	70.44685	9- 10
11	-1.445	20.267	873.28511	-96.2	-2.9	-91.8	83.4	14.24476	0.762	-90.0	70.7	30.2	40.5	40.4	57.78340	10- 11
12	-3.320	20.169	871.13042	-88.7	-1.7	-93.9	87.0	14.17173	0.766	-96.1	70.5	30.4	40.2	40.0	56.86187	11- 12
13	-3.214	17.872	829.03302	-88.5	-1.7	-93.6	86.6	13.51734	0.829	-95.5	68.2	34.2	34.2	34.0	69.55277	12- 13
14	-3.117	15.824	796.78988	-88.2	-1.8	-93.4	86.2	12.96546	0.883	-95.0	66.2	37.9	28.4	28.3	61.99384	13- 14
15	-1.403	15.899	798.35777	-98.4	-2.6	-92.0	82.4	13.02257	0.879	-90.0	66.3	37.7	28.8	28.5	51.98219	14- 15
16	0.333	16.002	805.16806	-108.0	-3.4	-90.5	78.7	13.09908	0.869	-84.9	66.4	37.9	30.1	28.1	52.67339	15- 16

FEB. 20, 1965 9 HR 51 MIN 8 SEC 108 MS

TAB NO 28

ATLAS PHOTO NO 28

POD SEQUENCE NO 391

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					388.647		711.01587	-2.319	7.308	2446.516	2.322	-52.913	74.032			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-1.315	18.154	811.40174	-97.3	-2.8	-92.0	82.7	13.26369	0.822	-90.0	68.5	34.0	34.7	34.5	0.	1- 2
3	-0.443	17.172	797.20101	-102.3	-3.2	-91.2	80.7	13.01591	0.846	-87.3	67.6	35.9	32.3	31.4	39.77790	2- 3
4	-0.423	19.311	834.08808	-100.7	-3.4	-90.9	81.1	13.61886	0.788	-87.1	69.7	32.2	38.1	37.3	64.79156	3- 4
5	-2.220	19.198	829.13100	-92.8	-2.3	-92.9	84.8	13.53717	0.795	-92.9	69.6	32.2	37.4	37.4	54.54577	4- 5
6	-2.161	17.077	792.78613	-93.3	-2.3	-92.8	84.3	12.94453	0.853	-92.6	67.5	35.9	31.6	31.5	64.23196	5- 6
7	-0.443	17.172	797.20101	-102.3	-3.2	-91.2	80.7	13.01591	0.846	-87.3	67.6	35.9	32.3	31.4	52.11548	6- 7
8	0.402	16.243	786.18155	-108.0	-3.5	-90.5	78.6	12.79007	0.867	-84.9	66.7	37.9	30.3	28.3	38.04987	7- 8
9	0.454	18.277	818.84760	-105.5	-3.8	-90.2	79.1	13.35115	0.812	-84.4	68.7	34.2	35.9	34.0	61.63909	8- 9
10	0.526	20.567	861.48968	-103.6	-4.2	-89.7	79.6	14.61788	0.749	-83.8	71.0	30.5	41.7	40.0	69.37280	9- 10
11	-1.333	20.416	853.11426	-96.3	-2.9	-91.9	83.2	13.91573	0.760	-90.0	70.8	30.2	40.7	40.5	56.47404	10- 11
12	-3.164	20.317	850.82185	-88.9	-1.8	-94.0	86.8	13.84122	0.765	-96.1	70.7	30.5	40.4	40.2	55.54972	11- 12
13	-3.061	18.069	809.47356	-88.8	-1.8	-93.7	86.4	13.19836	0.827	-95.5	68.4	34.2	34.4	34.2	69.06580	12- 13
14	-2.967	16.066	777.74041	-88.5	-1.8	-93.5	85.9	12.65546	0.881	-95.0	66.4	37.9	28.7	28.5	60.65479	13- 14
15	-1.293	16.140	779.41908	-98.5	-2.6	-92.0	82.3	12.71365	0.876	-90.0	66.5	37.7	29.0	28.7	50.74873	14- 15
16	-0.402	16.243	786.18155	-108.0	-3.5	-90.5	78.6	12.79007	0.867	-84.9	66.7	37.9	30.3	28.3	51.44229	15- 16

RA-VIII CAMERA FB

15

FEB. 20, 1965 9 HR 51 MIN 18 SEC 348 MS TAB NO 29 ATLAS PHOTO NO 29 POD SEQUENCE NO 395

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				378.407		692.04517		-2.226		7.634		2427.545		2.329		-52.697		74.021	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-1.202	18.356	791.98620	-97.5	-2.9	-92.0	82.5	12.94631	0.820	-90.0	68.7	34.0	34.9	34.7	0.	1-2			
3	-0.351	17.397	778.05458	-102.4	-3.2	-91.2	80.5	12.70327	0.844	-87.3	67.8	35.9	32.6	31.7	38.84989	2-3			
4	-0.330	19.490	814.34159	-100.8	-3.5	-91.0	81.0	13.29643	0.785	-87.0	69.9	32.2	38.3	37.5	63.40599	3-4			
5	-2.085	19.376	809.34371	-93.1	-2.4	-92.9	84.5	13.21407	0.793	-92.9	69.8	32.2	37.6	37.6	53.26375	4-5			
6	-2.027	17.301	773.50477	-93.5	-2.2	-92.8	84.1	12.68155	0.851	-92.6	67.7	35.9	31.8	31.8	62.84004	5-6			
7	-0.351	17.397	778.05458	-102.4	-3.2	-91.2	80.5	12.70327	0.844	-87.3	67.8	35.9	32.6	31.7	50.87136	6-7			
8	0.474	16.488	767.21294	-108.0	-3.5	-90.5	78.5	12.48135	0.864	-84.9	66.9	37.9	30.6	28.5	37.15929	7-8			
9	0.526	18.479	799.38496	-105.5	-3.9	-90.2	79.0	13.03375	0.810	-84.4	68.9	34.2	36.1	34.2	60.31610	8-9			
10	0.597	20.720	841.30018	-103.6	-4.2	-89.7	79.5	13.68934	0.747	-83.8	71.2	30.5	41.9	40.2	67.90749	9-10			
11	-1.218	20.569	832.97470	-96.5	-3.0	-91.9	83.0	13.58722	0.758	-90.0	71.0	30.2	40.8	40.7	55.16758	10-11			
12	-3.006	20.469	830.54472	-89.2	-1.9	-94.0	86.5	13.51121	0.763	-96.1	70.8	30.5	40.5	40.3	54.24024	11-12			
13	-2.906	18.270	789.93572	-89.1	-1.9	-93.8	86.1	12.87973	0.825	-95.5	68.6	34.2	34.6	34.4	66.58676	12-13			
14	-2.814	16.312	758.70771	-88.9	-1.9	-93.6	85.7	12.34574	0.879	-95.0	66.7	37.9	28.9	28.8	59.32015	13-14			
15	-1.181	16.386	760.49666	-98.7	-2.7	-92.1	82.1	12.40498	0.874	-90.0	66.8	37.7	29.3	29.0	49.51702	14-15			
16	0.474	16.488	767.21294	-108.0	-3.5	-90.5	78.5	12.48135	0.864	-84.9	66.9	37.9	30.6	28.5	50.21268	15-16			

FEB. 20, 1965 9 HR 51 MIN 28 SEC 598 MS TAB NO 30 ATLAS PHOTO NO 30 POD SEQUENCE NO 399

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				368.167		673.07401		-2.131		7.965		2408.574		2.336		-52.478		74.009	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-1.090	18.556	772.48305	-97.6	-2.9	-92.0	82.4	12.62750	0.818	-90.0	69.0	34.0	35.1	34.9	0.	1-2			
3	-0.260	17.619	758.82444	-102.5	-3.3	-91.2	80.4	12.38927	0.841	-87.3	68.0	35.9	32.8	31.9	37.91680	2-3			
4	-0.239	19.666	794.49065	-100.9	-3.5	-91.0	80.9	12.97230	0.783	-87.0	70.1	32.2	38.5	37.7	62.00435	3-4			
5	-1.951	19.553	789.46526	-93.3	-2.5	-93.0	84.3	12.88949	0.791	-92.9	69.9	32.2	37.8	37.8	51.97460	4-5			
6	-1.895	17.524	754.35153	-93.8	-2.4	-92.9	83.9	12.31696	0.849	-92.6	67.9	35.9	32.0	32.0	61.43355	5-6			
7	-0.260	17.619	758.82444	-102.5	-3.3	-91.2	80.4	12.38927	0.841	-87.3	68.0	35.9	32.8	31.9	49.62144	6-7			
8	0.544	16.732	748.16478	-108.0	-3.6	-90.5	78.4	12.17135	0.862	-84.9	67.2	37.9	30.8	28.8	36.26411	7-8			
9	0.596	18.678	779.82255	-105.6	-3.9	-90.1	78.9	12.71472	0.807	-84.4	69.1	34.2	36.3	34.4	58.97837	8-9			
10	0.667	20.870	820.98753	-103.7	-4.3	-89.7	79.4	13.35879	0.745	-83.8	71.3	30.5	42.1	40.3	66.42278	9-10			
11	-1.105	20.721	812.72605	-96.7	-3.1	-91.9	82.8	13.25692	0.756	-89.9	71.1	30.2	41.0	40.8	53.85192	10-11			
12	-2.849	20.619	810.17336	-89.5	-1.9	-94.1	86.3	13.17968	0.762	-96.1	71.0	30.5	40.7	40.5	52.92410	11-12			
13	-2.752	18.470	770.32327	-89.4	-2.0	-93.9	85.8	12.55988	0.823	-95.5	68.8	34.2	34.8	34.6	65.09201	12-13			
14	-2.662	16.556	739.61794	-89.3	-2.0	-93.7	85.4	12.03509	0.877	-95.0	66.9	37.9	29.1	29.0	57.97351	13-14			
15	-1.070	16.631	741.50551	-98.9	-2.7	-92.1	81.9	12.09520	0.872	-90.0	67.0	37.7	29.5	29.2	48.28102	14-15			
16	0.544	16.732	748.16478	-108.0	-3.6	-90.5	78.4	12.17135	0.862	-84.9	67.2	37.9	30.8	28.8	48.97723	15-16			

RA-VIII CAMERA FB

16

FEB. 20, 1965 9 HR 51 MIN 38 SEC 828 MS TAB NO 31 ATLAS PHOTO NO 31 POD SEQUENCE NO 403

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				357.927		654.10303		-2.035		8.301		2389.603		2.343		-52.256		73.998	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-0.979	18.756	752.90304	-97.8	-3.0	-92.1	82.2	12.30743	0.816	-89.9	69.2	34.0	35.4	35.1	0.	1-2			
3	-0.170	17.841	739.52217	-102.6	-3.3	-91.2	80.3	12.07410	0.839	-87.3	68.3	35.9	33.1	32.1	36.97886	2-3			
4	-0.149	19.841	754.54973	-101.0	-3.6	-91.0	80.8	12.64671	0.781	-87.0	70.3	32.2	38.7	37.9	60.58890	3-4			
5	-1.818	19.626	769.50556	-93.5	-2.6	-93.0	84.1	12.56358	0.789	-92.9	70.1	32.2	38.0	38.0	50.67951	4-5			
6	-1.764	17.746	735.03384	-94.0	-2.5	-93.0	83.7	12.00154	0.847	-92.6	68.1	35.9	32.2	32.2	60.01434	5-6			
7	-0.170	17.841	739.52217	-102.6	-3.3	-91.2	80.3	12.07410	0.839	-87.3	68.3	35.9	33.1	32.1	48.36676	6-7			
8	0.612	16.975	729.04948	-108.0	-3.6	-90.5	78.4	11.86026	0.860	-84.9	67.4	37.9	31.1	29.0	35.36461	7-8			
9	0.665	18.877	760.17561	-105.6	-4.0	-90.1	78.8	12.39431	0.805	-84.4	69.3	34.2	36.5	34.6	57.62811	8-9			
10	0.735	21.019	800.57082	-103.7	-4.3	-89.7	79.3	13.02656	0.744	-83.8	71.5	30.5	42.2	40.5	64.92183	9-10			
11	-0.993	20.870	792.38228	-96.8	-3.2	-92.0	82.7	12.92507	0.754	-89.9	71.3	30.2	41.2	41.0	52.52883	10-11			
12	-2.694	20.768	789.91676	-89.7	-2.0	-94.2	86.0	12.84677	0.760	-96.1	71.1	30.5	40.8	40.6	51.60228	11-12			
13	-2.599	18.669	750.64264	-89.7	-2.0	-93.9	85.6	12.23893	0.821	-95.5	69.0	34.2	35.0	34.8	63.58345	12-13			
14	-2.512	16.800	720.47570	-89.6	-2.0	-93.7	85.1	11.72358	0.875	-95.0	67.2	37.9	29.4	29.3	56.61608	13-14			
15	-0.960	16.875	722.45403	-99.1	-2.8	-92.1	81.7	11.78443	0.870	-90.0	67.3	37.7	29.8	29.5	47.04163	14-15			
16	0.612	16.975	729.04948	-108.0	-3.6	-90.5	78.4	11.86026	0.860	-84.9	67.4	37.9	31.1	29.0	47.73688	15-16			

FEB. 20, 1965 9 HR 51 MIN 49 SEC 68 MS TAB NO 32 ATLAS PHOTO NO 32 POD SEQUENCE NO 407

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				347.687		635.13333		-1.937		8.642		2370.633		2.350		-52.031		73.987	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-0.868	18.955	733.26478	-98.0	-3.1	-92.1	82.0	11.98641	0.813	-89.9	69.4	34.0	35.6	35.3	0.	1-2			
3	-0.080	18.063	720.16772	-102.7	-3.4	-91.2	80.2	11.75807	0.837	-87.3	68.5	35.9	33.3	32.3	36.03652	2-3			
4	-0.058	20.016	754.54334	-101.1	-3.7	-91.0	80.6	12.32004	0.779	-87.0	70.4	32.2	38.9	38.0	59.16343	3-4			
5	-1.685	19.903	749.48178	-93.7	-2.6	-93.1	83.9	12.23662	0.787	-92.9	70.3	32.2	38.1	38.1	49.38055	4-5			
6	-1.633	17.968	715.66521	-94.3	-2.5	-93.0	83.4	11.68528	0.845	-92.6	68.4	35.9	32.5	32.5	58.58519	5-6			
7	-0.080	18.063	720.16772	-102.7	-3.4	-91.2	80.2	11.75807	0.837	-87.3	68.5	35.9	33.3	32.3	34.46128	6-7			
8	0.682	17.218	709.88837	-108.1	-3.6	-90.1	78.8	12.07295	0.803	-84.4	69.5	34.2	36.7	34.8	56.26887	7-8			
9	0.734	19.075	740.46982	-105.7	-4.0	-90.5	78.3	12.49315	0.742	-83.8	71.6	30.5	42.4	40.6	63.40974	8-9			
10	0.803	21.168	780.08166	-103.8	-4.4	-89.7	79.2	12.59206	0.752	-89.9	71.4	30.2	41.3	41.1	51.20135	9-10			
11	-0.881	21.020	771.96670	-97.0	-3.2	-92.0	82.5	12.51274	0.758	-96.1	71.3	30.4	41.0	40.8	50.27641	10-11			
12	-2.537	20.917	769.19076	-90.0	-2.2	-94.3	85.8	11.91707	0.819	-95.5	69.2	34.2	35.2	35.1	62.06412	11-12			
13	-2.445	18.868	730.90581	-90.0	-2.1	-94.0	85.3	11.41137	0.873	-95.0	67.4	37.9	29.6	29.5	55.24989	12-13</			

RA-VIII CAMERA F8

17

FEB. 20, 1965 9 HR 51 MIN 59 SEC 308 MS

TAB NO 33

ATLAS PHOTO NO 33

POD SEQUENCE NO 411

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ	
PHOTO DATA					337.447		616.16513	-1.838	8.989	2351.665	2.357	-51.803	73.976	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT
2	-0.757	19.153	713.53346	-98.1	-3.1	-92.1	81.9	11.66387	0.811	-89.9	69.6 34.0 35.8	35.5	0.	1- 2
3	0.009	18.284	700.72407	-102.8	-3.4	-91.2	80.0	11.44058	0.834	-87.3	68.7 35.9 33.5	32.6	35.08907	2- 3
4	0.031	20.189	734.42670	-101.2	-3.7	-91.0	80.5	11.99158	0.777	-87.0	70.6 32.2 39.1	38.2	57.72117	3- 4
5	-1.552	20.076	729.36150	-94.0	-2.7	-93.2	83.7	11.90809	0.785	-92.9	70.5 32.2 38.3	38.3	48.07397	4- 5
6	-1.502	18.189	696.21954	-94.5	-2.6	-93.1	83.2	11.36777	0.842	-92.6	68.6 35.9 32.7	32.7	57.14090	5- 6
7	0.009	18.284	700.72407	-102.8	-3.4	-91.2	80.0	11.44058	0.834	-87.3	68.7 35.9 33.5	32.6	45.84497	6- 7
8	0.750	17.460	690.64218	-108.1	-3.7	-90.5	78.2	11.23522	0.855	-84.9	67.9 37.9 31.6	29.5	33.55291	7- 8
9	0.802	19.272	720.65841	-105.7	-4.1	-90.1	78.7	11.74987	0.801	-84.4	69.7 34.2 37.0	35.0	54.89414	8- 9
10	0.871	21.314	759.46323	-103.9	-4.4	-89.7	79.1	12.35763	0.740	-83.8	71.8 30.5 42.6	40.8	61.87754	9-10
11	-0.769	21.167	751.43646	-97.2	-3.3	-92.0	82.3	12.25717	0.751	-89.9	71.6 30.2 41.5	41.3	49.86402	10-11
12	-2.382	21.063	748.56536	-90.2	-2.3	-94.4	85.5	12.17709	0.757	-96.1	71.4 30.4 41.1	41.0	48.94333	11-12
13	-2.292	19.065	711.08932	-90.3	-2.2	-94.1	85.1	11.59390	0.817	-95.5	69.4 34.2 35.4	35.3	60.52858	12-13
14	-2.210	17.287	682.04248	-90.3	-2.2	-93.9	84.6	11.09816	0.871	-95.0	67.7 37.9 29.9	29.8	53.87109	13-14
15	-0.741	17.362	684.18649	-99.4	-2.9	-92.2	81.4	11.16022	0.865	-89.9	67.8 37.7 30.3	30.0	44.55315	14-15
16	0.750	17.460	690.64218	-108.1	-3.7	-90.5	78.2	11.23522	0.855	-84.9	67.9 37.9 31.6	29.5	45.24437	15-16

FEB. 20, 1965 9 HR 52 MIN 0 SEC 548 MS

TAB NO 34

ATLAS PHOTO NO 34

POD SEQUENCE NO 415

TRAJECTORY DATA				SEC TO IMPACT				ALT	LAT	LON	R	V	PTH	AZ
PHOTO DATA				327.207				597.19943	-1.737	9.341	2332.699	2.364	-51.571	73.966
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT
2	-0.646	19.350	693.72923	-98.3	-3.2	-92.2	81.7	11.34014	0.809	-89.9	69.8 34.0 36.0	35.7	0.	1- 2
3	0.098	18.503	681.21275	-102.9	-3.5	-91.2	79.9	11.12200	0.832	-87.3	68.9 35.9 33.8	32.8	34.13671	2- 3
4	0.121	20.361	714.22631	-101.3	-3.8	-91.0	80.4	11.66174	0.775	-87.0	70.8 32.2 39.3	38.4	56.26625	3- 4
5	-1.419	20.248	709.16347	-94.2	-2.8	-93.2	83.5	11.57830	0.784	-92.8	70.6 32.2 38.5	38.5	46.76178	4- 5
6	-1.370	18.410	676.71144	-94.8	-2.7	-93.1	83.0	11.04924	0.840	-92.6	68.8 35.9 32.9	32.9	55.68467	5- 6
7	0.098	18.503	681.21275	-102.9	-3.5	-91.2	79.9	11.12200	0.832	-87.3	68.9 35.9 33.8	32.8	44.57663	6- 7
8	0.818	17.702	671.33389	-108.1	-3.7	-90.4	78.1	10.92100	0.853	-84.9	68.2 37.9 31.9	29.8	32.64033	7- 8
9	0.870	19.468	700.76912	-105.7	-4.1	-90.1	78.6	11.42553	0.799	-84.4	69.9 34.2 37.2	35.2	53.50783	8- 9
10	0.938	21.458	738.74985	-103.9	-4.5	-89.7	79.0	12.02057	0.738	-83.8	71.9 30.5 42.7	40.9	60.33086	9-10
11	-0.657	21.313	730.81697	-97.3	-3.4	-92.1	82.2	11.92082	0.749	-89.9	71.7 30.2 41.7	41.4	48.52023	10-11
12	-2.225	21.208	727.85784	-90.5	-2.4	-94.4	85.3	11.84012	0.755	-96.1	71.6 30.4 41.2	41.1	47.60489	11-12
13	-2.138	19.262	691.20615	-90.6	-2.3	-94.0	84.8	11.26966	0.815	-95.5	69.6 34.2 35.6	35.5	58.98020	12-13
14	-2.058	17.530	662.74278	-90.7	-2.2	-94.0	84.4	10.78409	0.869	-95.0	67.9 37.9 30.1	30.0	52.48196	13-14
15	-0.631	17.605	664.95802	-99.6	-3.0	-92.2	81.2	10.84656	0.863	-89.9	68.0 37.7 30.6	30.2	43.30324	14-15
16	0.818	17.702	671.33389	-108.1	-3.7	-90.4	78.1	10.92100	0.853	-84.9	68.2 37.9 31.9	29.8	43.99059	15-16

RA-VIII CAMERA F8

18

FEB. 20, 1965 9 HR 52 MIN 19 SEC 788 MS

TAB NO 35

ATLAS PHOTO NO 35

POD SEQUENCE NO 419

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
PHOTO DATA				316.968		578.23724	-1.634	9.700	2313.737	2.371	-51.336	73.957		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT
2	-0.533	19.547	673.87450	-98.5	-3.3	-92.2	81.5	11.01558	0.807	-89.9	70.0 34.0 36.2	35.9	0.	1- 2
3	0.190	18.724	661.65754	-103.0	-3.5	-91.2	79.8	10.80270	0.830	-87.3	69.2 35.9 34.0	33.0	33.18000	2- 3
4	0.213	20.533	693.97133	-101.4	-3.9	-91.0	80.2	11.33102	0.773	-87.0	71.0 32.2 39.5	38.6	54.80314	3- 4
5	-1.284	20.420	688.90874	-94.4	-2.9	-93.3	83.3	11.24757	0.782	-92.8	70.8 32.2 38.7	38.7	45.44665	4- 5
6	-1.237	18.631	657.15765	-95.0	-2.7	-93.2	82.8	11.72997	0.838	-92.6	69.0 35.9 33.2	33.1	54.22000	5- 6
7	0.190	18.724	661.65754	-103.0	-3.5	-91.2	79.8	10.80270	0.830	-87.3	69.2 35.9 34.0	33.0	43.30583	6- 7
8	0.889	17.944	651.98865	-108.1	-3.8	-90.4	78.0	10.60619	0.850	-84.9	68.4 37.9 32.1	30.0	31.72404	7- 8
9	0.940	19.664	680.83222	-105.8	-4.2	-90.1	78.5	11.10041	0.796	-84.4	70.1 34.2 37.4	35.4	52.11423	8- 9
10	1.008	21.603	717.97858	-104.0	-4.5	-89.7	78.9	11.68258	0.736	-83.8	72.1 30.5 42.9	41.1	58.77565	9-10
11	-0.543	21.459	710.13628	-97.5	-3.5	-92.1	82.0	11.58348	0.747	-89.9	71.9 30.2 41.8	41.6	47.17345	10-11
12	-2.067	21.354	707.08795	-90.8	-2.5	-94.5	85.0	11.50213	0.753	-96.0	71.7 30.4 41.4	41.3	46.26317	11-12
13	-1.982	19.459	671.27143	-90.9	-2.4	-94.2	84.6	10.94458	0.813	-95.5	69.8 34.2 35.8	35.7	57.42269	12-13
14	-1.905	17.773	643.60269	-91.0	-2.3	-94.0	84.1	10.46938	0.867	-95.0	68.2 37.9 30.3	30.3	51.08502	13-14
15	-0.519	17.848	645.69005	-99.8	-3.0	-92.2	81.1	10.53226	0.861	-89.9	68.3 37.7 30.8	30.5	42.05113	14-15
16	0.889	17.944	651.98865	-108.1	-3.8	-90.4	78.0	10.60619	0.850	-84.9	68.4 37.9 32.1	30.0	42.73504	15-16

FEB. 20, 1965 9 HR 52 MIN 30 SEC 28 MS

TAB NO 36

ATLAS PHOTO NO 36

POD SEQUENCE NO 423

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
PHOTO DATA				306.728		559.27921	-1.529	10.064	2294.779	2.379	-51.097	73.948		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT
2	-0.423	19.741	653.88590	-98.6	-3.3	-92.2	81.4	10.68884	0.805	-89.9	70.2 34.0 36.4	36.1	0.	1- 2
3	0.278	18.941	641.97333	-103.1	-3.6	-91.2	79.7	10.48129	0.827	-87.3	69.4 35.9 34.2	33.2	32.21589	2- 3
4	0.301	20.701	673.55737	-101.5	-3.9	-91.0	80.1	10.99770	0.771	-87.0	71.1 32.2 39.6	38.7	53.31548	3- 4
5	-1.151	20.589	668.51534	-94.6	-3.0	-93.3	83.1	10.91459	0.780	-92.8	71.0 32.2 38.8	38.8	44.12004	4- 5
6	-1.106	18.848	637.49265	-95.3	-2.8	-93.2	82.6	10.40887	0.836	-92.6	69.3 35.9 33.4	33.4	52.73427	5- 6
7	0.278	18.941	641.97333	-103.1	-3.6	-91.2	79.7	10.48129	0.827	-87.3	69.4 35.9 34.2	33.2	42.02573	6- 7
8	0.956	18.183	632.51939	-108.1	-3.8	-90.4	78.0	10.28937	0.848	-84.9	68.6 37.9 32.4	30.2	30.80087	7- 8
9	1.007	19.856	660.74248	-105.8	-4.2	-90.1	78.4	10.77280	0.794	-84.4	70.3 34.2 37.6	35.6	50.69800	8- 9
10	1.074	21.743	697.02016	-104.1	-4.6	-89.7	78.9	11.34154	0.734	-83.8	72.2 30.5 43.0	41.2	57.19077	9-10
11	-0.432	21.601	689.29047	-97.6	-3.6	-92.1	81.8	11.26345	0.745	-89.9	72.0 30.2 42.0	41.7	45.81212	10-11
12	-1.911	21.495	686.17496	-91.0	-2.6	-94.6	84.8	11.16183	0.752	-96.0	71.9 30.4 41.5	41.4	44.91044	11-12
13	-1.829	19.653	651.22198	-91.2	-2.5	-94.3	84.3	10.61763	0.811	-95.4	70.0 34.2 35.9	35.9	55.84142	12-13
14	-1.754	18.014	623.97237	-91.3	-2.4	-94.1	83.9	10.15319	0.865	-95.0	68.4 37.9 30.6	30.5	49.66985	13-14
15	-0.410	18.088	626.31477	-99.9	-3.1	-92.3	80.9	10.21622	0.858	-89.9	68.5 37.7 31.1	30.7	40.79208	14-15
16	0.956	18.183	632.51939	-108.1	-3.8	-90.4	78.0	10.28937	0.848	-84.9	68.6 37.9 32.4	30.2	41.46979	15-16

RA-VIII CAMERA FB

19

FEB. 20, 1965 9 HR 52 MIN 40 SEC 268 MS TAB NO 37 ATLAS PHOTO NO 37 POD SEQUENCE NO 427

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				296.488		540.32657		-1.422		10.434		2275.827		2.386		-50.854		73.939	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-0.315	19.932	633.79093	-98.8	-3.4	-92.2	81.2	10.36035	0.803	-89.9	70.4	34.0	36.6	36.3	0.	1-2			
3	0.365	19.156	622.18787	-103.2	-3.6	-91.3	79.6	10.15823	0.825	-87.3	69.6	35.9	34.5	33.4	31.24555	2-3			
4	0.388	20.866	653.01920	-101.6	-4.0	-91.0	80.0	10.66235	0.769	-87.0	71.3	32.2	39.8	38.9	51.80891	3-4			
5	-1.020	20.756	648.01079	-94.8	-3.1	-93.4	82.9	10.57979	0.778	-92.8	71.2	32.2	39.0	39.0	42.78460	4-5			
6	-0.977	19.065	617.73788	-95.5	-2.9	-93.3	82.4	10.08632	0.834	-92.6	69.5	35.9	33.6	33.6	51.22724	5-6			
7	0.365	19.156	622.18787	-103.2	-3.6	-91.3	79.6	10.15823	0.825	-87.3	69.6	35.9	34.5	33.4	40.73853	6-7			
8	1.021	18.420	612.95423	-108.1	-3.9	-90.4	77.9	9.97099	0.846	-84.9	68.9	37.9	32.6	30.5	29.87188	7-8			
9	1.072	20.046	640.53455	-105.9	-4.2	-90.1	78.3	10.44328	0.792	-84.4	70.5	34.2	37.8	35.8	49.26432	8-9			
10	1.137	21.880	675.91799	-104.1	-4.6	-89.6	78.8	10.99816	0.732	-83.8	72.3	30.5	43.2	41.3	55.58362	9-10			
11	-0.323	21.740	668.31464	-97.8	-3.6	-92.2	81.7	10.90129	0.743	-89.9	72.2	30.2	42.1	41.8	44.43985	10-11			
12	-1.757	21.634	665.14642	-91.3	-2.7	-94.7	84.5	10.81965	0.750	-96.0	72.0	30.4	41.7	41.6	43.54951	11-12			
13	-1.678	19.844	631.07877	-91.4	-2.6	-94.4	84.1	10.28915	0.809	-95.4	70.2	34.2	36.1	36.1	54.24167	12-13			
14	-1.605	18.253	604.46789	-91.6	-2.5	-94.2	83.6	9.83580	0.863	-95.0	68.7	37.9	30.8	30.8	48.24004	13-14			
15	-0.302	18.327	606.85403	-100.1	-3.1	-92.3	80.8	9.89877	0.856	-89.9	68.8	37.7	31.3	30.9	39.52761	14-15			
16	1.021	18.420	612.95423	-108.1	-3.9	-90.4	77.9	9.97099	0.846	-84.9	68.9	37.9	32.6	30.5	40.19734	15-16			

FEB. 20, 1965 9 HR 52 MIN 50 SEC 508 MS TAB NO 38 ATLAS PHOTO NO 38 POD SEQUENCE NO 431

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				286.248		521.37967		-1.314		10.810		2256.880		2.394		-50.608		73.931	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-0.208	20.122	613.59056	-98.9	-3.5	-92.3	81.1	10.03014	0.801	-89.9	70.6	34.0	36.8	36.5	0.	1-2			
3	0.449	19.370	602.30233	-103.3	-3.7	-91.3	79.5	9.83355	0.823	-87.3	69.8	35.9	34.7	33.6	30.26896	2-3			
4	0.472	21.030	652.35878	-101.7	-4.0	-91.1	79.9	10.32501	0.767	-87.0	71.5	32.2	40.0	39.0	50.28390	3-4			
5	-0.892	20.920	627.39583	-95.0	-3.1	-93.4	82.7	10.24320	0.776	-92.8	71.3	32.2	39.2	39.2	41.44060	4-5			
6	-0.850	19.279	597.89343	-95.7	-3.0	-93.3	82.2	9.76230	0.832	-92.6	69.7	35.9	33.8	33.8	49.70824	5-6			
7	0.449	19.370	602.30233	-103.3	-3.7	-91.3	79.5	9.83355	0.823	-87.3	69.8	35.9	34.7	33.6	28.93710	6-7			
8	1.085	18.656	593.29457	-108.1	-3.9	-90.4	77.9	9.65109	0.843	-84.9	69.1	37.9	32.9	30.7	38.91361	7-8			
9	1.134	20.234	620.21052	-105.9	-4.3	-90.0	78.3	10.11186	0.790	-84.4	70.7	34.2	38.0	36.0	53.95489	8-9			
10	1.198	22.015	654.67524	-104.2	-4.7	-89.6	78.7	10.65249	0.730	-83.8	72.5	30.5	43.3	41.5	42.18005	9-10			
11	-0.216	21.876	647.21066	-97.9	-3.7	-92.2	81.5	10.55704	0.742	-89.9	72.3	30.2	42.3	42.0	43.05719	10-11			
12	-1.605	21.771	644.00307	-91.5	-2.8	-94.7	84.3	10.47562	0.749	-96.0	72.2	30.4	41.8	41.7	42.18005	11-12			
13	-1.528	20.035	610.84177	-91.7	-2.7	-94.5	83.9	9.95916	0.807	-95.5	70.4	34.2	36.3	36.3	52.62385	12-13			
14	-1.458	18.491	584.88863	-91.9	-2.5	-94.3	83.4	9.51719	0.860	-95.0	68.9	37.9	31.0	31.0	46.79578	13-14			
15	-0.197	18.564	587.30818	-100.2	-3.2	-92.3	80.6	9.57995	0.854	-89.9	69.0	37.7	31.6	31.2	38.25771	14-15			
16	1.085	18.656	593.29457	-108.1	-3.9	-90.4	77.9	9.65109	0.843	-84.9	69.1	37.9	32.9	30.7	38.91788	15-16			

RA-VIII CAMERA FB

20

FEB. 20, 1965 9 HR 53 MIN 0 SEC 748 MS TAB NO 39 ATLAS PHOTO NO 39 POD SEQUENCE NO 435

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				276.008		502.44000		-1.204		11.193		2237.940		2.401		-50.358		73.924	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-0.102	20.312	593.32821	-99.1	-3.5	-92.3	80.9	9.69892	0.798	-89.9	70.7	34.0	37.0	36.7	0.	1-2			
3	0.534	19.584	582.35714	-103.3	-3.8	-91.3	79.4	9.50788	0.821	-87.3	70.0	35.9	34.9	33.9	29.28895	2-3			
4	0.557	21.193	611.62739	-101.8	-4.1	-91.1	79.8	9.98651	0.765	-87.0	71.6	32.2	40.2	39.2	48.74928	3-4			
5	-0.762	21.085	606.71747	-95.2	-3.2	-93.5	82.5	9.90556	0.774	-92.8	71.5	32.2	39.4	39.3	40.09171	4-5			
6	-0.722	19.494	577.99604	-95.9	-3.0	-93.4	82.1	9.43741	0.829	-92.6	69.9	35.9	34.0	34.0	48.17852	5-6			
7	0.534	19.584	582.35714	-103.3	-3.8	-91.3	79.4	9.50788	0.821	-87.3	70.0	35.9	34.9	33.9	38.14605	6-7			
8	1.148	18.893	573.57832	-108.0	-3.9	-90.3	77.8	9.33027	0.841	-84.9	69.4	37.9	33.1	31.0	27.99897	7-8			
9	1.197	20.423	599.81814	-105.9	-4.3	-90.0	78.2	9.77933	0.788	-84.4	70.9	34.2	38.2	36.2	46.35359	8-9			
10	1.260	22.149	633.35272	-104.2	-4.7	-89.6	78.6	10.30552	0.729	-83.8	72.6	30.5	43.5	41.6	52.31563	9-10			
11	-0.109	22.013	626.03402	-98.1	-3.8	-92.3	81.4	10.21161	0.740	-89.9	72.4	30.2	42.4	42.1	41.66861	10-11			
12	-1.452	21.908	622.79608	-91.7	-2.9	-94.8	84.1	10.13056	0.747	-96.0	72.3	30.5	41.9	41.8	40.80593	11-12			
13	-1.378	20.225	590.55068	-92.0	-2.7	-94.5	83.6	9.62828	0.805	-95.5	70.6	34.2	36.5	36.5	50.99742	12-13			
14	-1.310	18.730	565.26559	-92.2	-2.6	-94.3	83.2	9.19787	0.858	-95.0	69.1	37.9	31.3	31.2	45.34381	13-14			
15	-0.091	18.802	567.71144	-100.3	-3.3	-92.4	80.5	9.26029	0.851	-89.9	69.2	37.7	31.8	31.4	36.98448	14-15			
16	1.148	18.893	573.57832	-108.0	-3.9	-90.3	77.8	9.33027	0.841	-84.9	69.4	37.9	33.1	31.0	37.63426	15-16			

FEB. 20, 1965 9 HR 53 MIN 10 SEC 988 MS TAB NO 40 ATLAS PHOTO NO 40 POD SEQUENCE NO 439

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				265.768		483.50861		-1.092		11.583		2219.009		2.409		-50.104		73.917	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	0.005	20.501	572.97489	-99.2	-3.6	-92.3	80.8	9.36621	0.796	-89.9	70.9	34.0	37.2	36.9	0.	1-2			
3	0.619	19.797	562.32634	-103.4	-3.8	-91.3	79.3	9.18083	0.818	-87.3	70.3	35.9	35.2	34.1	28.30316	2-3			
4	0.641	21.355	590.79217	-101.9	-4.1	-91.1	79.7	9.64631	0.763	-87.0	71.8	32.2	40.3	39.4	47.19932	3-4			
5	-0.633	21.248	585.94329	-95.4	-3.3	-93.5	82.3	9.56637	0.772	-92.8	71.7	32.2	39.5	39.5	38.73563	4-5			
6	-0.594	19.709	558.02011	-96.1	-3.1	-93.4	81.9	9.11124	0.827	-92.6	70.1	35.9	34.3	34.2	46.63446	5-6			
7	0.619	19.797	562.32634	-103.4	-3.8	-91.3	79.3	9.18083	0.818	-87.3	70.3	35.9	35.2	34.1	36.84181	6-7			
8	1.211	19.128	553.78217	-108.0	-4.0	-90.3	77.8	9.00816	0.839	-84.9	69.6	37.9	33.4	31.2	27.05559	7-8			
9	1.260	20.610	579.32793	-105.9	-4.4	-90.0	78.2	9.44521	0.786	-84.4	71.1	34.2	38.4	36.4	44.87933	8-9			
10	1.321	22.281	611.91288	-104.3	-4.8	-89.6	78.6	9.95665	0.727	-83.8	72.8	30.5	43.6	41.8	50.65895	9-10			
11	-0.002	22.148	604.74805	-98.2	-3.9	-92.3	81.2	9.86440	0.738	-89.9	72.6	30.2	42.6	42.3	40.27156	10-11			
12	-1.299	22.043	601.48909	-92.0	-3.0	-94.9	83.9	9.78387	0.746	-96.0	72.4	30.4	42.1	42.0	39.42482	11-12			
13	-1.227	20.415	570.17680	-92.2	-2.8	-94.6	83.4	9.29605	0.804	-95.5	70.8	34.2	36.7	36.6	49.35591	12-13			
14	-1.162																		

RA-VIII CAMERA FB

21

FEB. 20, 1965 9 HR 53 MIN 21 SEC 228 MS

TAB NO 41

ATLAS PHOTO NO 41

POD SEQUENCE NO 443

TRAJECTORY DATA				SEC TO IMPACT			ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA				255.528			464.58640	-0.977	11.979	2200.086	2.417	-49.846	73.911			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.111	20.689	552.52355	-99.3	-3.7	-92.4	80.7	9.03190	0.794	-89.9	71.1	34.0	37.4	37.0	0.	1-2
3	0.703	20.009	542.20340	-103.5	-3.9	-91.3	79.2	8.85227	0.816	-87.3	70.5	35.9	35.4	34.3	27.31128	2-3
4	0.725	21.515	569.84525	-102.0	-4.2	-91.1	79.6	9.30429	0.761	-87.0	72.0	32.2	40.5	39.5	45.63280	3-4
5	-0.504	21.410	565.06562	-95.6	-3.4	-93.6	82.2	9.22549	0.770	-92.8	71.8	32.2	39.7	39.7	37.37177	4-5
6	-0.467	19.922	537.95921	-96.3	-3.2	-93.5	81.7	8.78369	0.825	-92.6	70.3	35.9	34.5	34.4	45.07487	5-6
7	0.703	20.009	542.20340	-103.5	-3.9	-91.3	79.2	8.85227	0.816	-87.3	70.5	35.9	35.4	34.3	35.53131	6-7
8	1.274	19.363	533.90013	-108.0	-4.0	-90.3	77.7	8.68466	0.836	-84.9	69.8	37.9	33.6	31.4	26.10652	7-8
9	1.322	20.795	558.73264	-106.0	-4.4	-90.0	78.1	9.10938	0.783	-84.4	71.3	34.2	38.6	36.6	43.38971	8-9
10	1.382	22.412	590.34702	-104.3	-4.8	-89.6	78.5	9.60573	0.725	-83.8	72.9	30.5	43.8	41.9	48.98348	9-10
11	0.105	22.280	583.34419	-98.3	-3.9	-92.3	81.1	9.51526	0.737	-89.9	72.7	30.2	42.7	42.4	38.86533	10-11
12	-1.146	22.177	580.07375	-92.2	-3.1	-95.0	83.7	9.43544	0.744	-96.0	72.6	30.4	42.2	42.1	38.03611	11-12
13	-1.077	20.604	549.71316	-92.5	-2.9	-94.7	83.2	8.96237	0.802	-95.5	71.0	34.2	36.9	36.8	47.69800	12-13
14	-1.014	19.205	525.81410	-92.8	-2.8	-94.5	82.8	8.55589	0.854	-95.0	69.6	37.9	31.8	31.7	42.40129	13-14
15	0.120	19.276	528.29064	-100.6	-3.4	-92.4	80.2	8.61726	0.847	-89.9	69.7	37.7	32.3	31.9	34.42378	14-15
16	1.274	19.363	533.90013	-108.0	-4.0	-90.3	77.7	8.68466	0.836	-84.9	69.8	37.9	33.6	31.4	35.04924	15-16

FEB. 20, 1965 9 HR 53 MIN 26 SEC 348 MS

TAB NO 42

ATLAS PHOTO NO 42

POD SEQUENCE NO 445

TRAJECTORY DATA				SEC TO IMPACT			ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA				250.408			455.12906	-0.919	12.179	2190.629	2.421	-49.715	73.908			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.164	20.782	542.25925	-99.4	-3.7	-92.4	80.6	8.86411	0.793	-89.9	71.2	34.0	37.5	37.1	0.	1-2
3	0.745	20.114	532.10574	-103.5	-3.9	-91.3	79.1	8.86740	0.815	-87.3	70.6	35.9	35.5	34.4	26.81284	2-3
4	0.767	21.595	559.32796	-102.0	-4.2	-91.1	79.5	9.13256	0.760	-87.0	72.1	32.2	40.6	39.6	44.84303	3-4
5	-0.440	21.490	554.58586	-95.7	-3.4	-93.6	82.1	9.05438	0.769	-92.8	71.9	32.2	39.8	39.7	36.68688	4-5
6	-0.403	20.028	527.89513	-96.4	-3.2	-93.5	81.6	8.61936	0.824	-92.6	70.5	35.9	34.6	34.5	44.28895	5-6
7	0.745	20.114	532.10574	-103.5	-3.9	-91.3	79.1	8.86740	0.815	-87.3	70.6	35.9	35.5	34.4	34.87354	6-7
8	1.305	19.480	523.92545	-108.0	-4.0	-90.3	77.7	8.52236	0.835	-84.9	70.0	37.9	33.7	31.6	25.62971	7-8
9	1.352	20.887	548.39388	-106.0	-4.4	-90.0	78.1	9.04080	0.782	-84.4	71.4	34.2	38.7	36.7	42.63884	8-9
10	1.411	22.476	579.51476	-104.3	-4.9	-89.6	78.5	9.42947	0.724	-83.8	73.0	30.5	43.8	42.0	48.13836	9-10
11	0.158	22.346	572.59582	-98.4	-4.0	-92.3	81.0	9.33994	0.736	-89.9	72.8	30.2	42.8	42.5	38.15878	10-11
12	-1.070	22.243	569.32309	-92.3	-3.1	-95.0	83.5	9.26052	0.743	-96.1	72.7	30.4	42.2	42.2	37.33864	11-12
13	-1.002	20.697	539.44569	-92.6	-3.0	-94.7	83.1	8.79495	0.801	-95.5	71.1	34.2	37.0	36.9	46.86253	12-13
14	-0.940	19.323	515.90433	-93.0	-2.8	-94.5	82.7	8.39463	0.853	-95.0	69.7	37.9	31.9	31.9	41.65692	13-14
15	0.173	19.394	518.38409	-100.7	-3.4	-92.4	80.2	8.45567	0.846	-89.9	69.8	37.7	32.5	32.0	33.78019	14-15
16	1.305	19.480	523.92545	-108.0	-4.0	-90.3	77.7	8.52236	0.835	-84.9	70.0	37.9	33.7	31.6	34.39911	15-16

RA-VIII CAMERA FB

22

FEB. 20, 1965 9 HR 53 MIN 31 SEC 468 MS

TAB NO 43

ATLAS PHOTO NO 43

POD SEQUENCE NO 447

TRAJECTORY DATA							SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ	
							245.288		445.67477	-0.861	12.382	2181.175	2.425	-49.583	73.905	
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.217	20.875	531.96957	-99.5	-3.7	-92.4	80.5	8.69591	0.792	-89.9	71.3	34.0	37.6	37.2	0.	1-2
3	0.787	20.219	521.98421	-103.5	-3.9	-91.3	79.1	8.52214	0.814	-87.3	70.7	35.9	35.6	34.5	26.31280	2-3
4	0.809	21.673	548.78176	-102.1	-4.3	-91.1	79.5	8.96037	0.759	-87.0	72.1	32.2	40.7	39.7	44.04698	3-4
5	-0.375	21.570	544.07930	-95.8	-3.5	-92.6	82.0	8.88284	0.768	-92.9	72.0	32.2	39.9	39.8	35.93997	4-5
6	-0.340	20.134	517.80899	-96.5	-3.3	-93.5	81.5	8.45468	0.823	-92.6	70.6	35.9	34.7	34.6	43.69900	5-6
7	0.787	20.219	521.98421	-103.5	-3.9	-91.3	79.1	8.52214	0.814	-87.3	70.7	35.9	35.6	34.5	34.21417	6-7
8	1.336	19.597	513.92851	-108.0	-4.1	-90.3	77.6	8.35970	0.834	-84.9	70.1	37.9	33.9	31.7	25.15142	7-8
9	1.383	20.979	538.02792	-106.0	-4.5	-90.0	78.0	8.77177	0.781	-84.4	71.5	34.2	38.8	36.8	41.88403	8-9
10	1.441	22.540	568.64996	-104.3	-4.9	-89.6	78.4	9.25268	0.724	-83.8	73.0	30.5	43.9	42.0	47.28838	9-10
11	0.211	22.411	561.81698	-98.5	-4.0	-92.4	80.9	9.16412	0.735	-89.9	72.9	30.2	42.8	42.5	37.44989	10-11
12	-0.994	22.309	558.54437	-92.4	-3.2	-95.0	83.4	9.08515	0.743	-96.1	72.7	30.5	42.3	42.3	36.63916	11-12
13	-0.927	20.791	529.15493	-92.7	-3.0	-94.8	83.0	8.62715	0.800	-95.5	71.2	34.2	37.1	37.0	46.02284	12-13
14	-0.866	19.441	505.97572	-93.1	-2.8	-94.6	82.6	8.23307	0.852	-95.0	69.9	37.9	32.0	32.0	40.90901	13-14
15	0.225	19.512	508.45680	-100.7	-3.4	-92.4	80.1	8.29373	0.844	-89.9	70.0	37.7	32.6	32.1	33.13530	14-15
16	1.336	19.597	513.92851	-108.0	-4.1	-90.3	77.6	8.35970	0.834	-84.9	70.1	37.9	33.9	31.7	33.74740	15-16

FEB. 20, 1965 9 HR 53 MIN 36 SEC 588 MS

TAB NO 44

ATLAS PHOTO NO 44

POD SEQUENCE NO 449

TRAJECTORY DATA				SEC TO IMPACT				ALT	LAT	LON	R	V	PTH	AZ		
				240.168				436.22305	-0.802	12.586	2171.723	2.429	-49.451	73.903		
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.270	20.968	521.65361	-99.5	-3.8	-92.4	80.5	8.52728	0.791	-89.9	71.4	34.0	37.7	37.3	0.	1-2
3	0.828	20.324	511.83793	-103.6	-3.9	-91.3	79.0	8.35647	0.813	-87.3	70.8	35.9	35.7	34.6	25.81113	2-3
4	0.850	21.752	538.20581	-102.1	-4.3	-91.1	79.4	8.78768	0.758	-87.0	72.2	32.2	40.8	39.8	43.25057	3-4
5	-0.311	21.649	533.54510	-95.9	-3.5	-93.7	81.9	8.71084	0.767	-92.9	72.1	32.2	39.9	39.9	35.31103	4-5
6	-0.276	20.239	507.69997	-96.6	-3.3	-93.6	81.5	8.28962	0.822	-92.6	70.7	35.9	34.8	34.8	42.70498	5-6
7	0.828	20.324	511.83793	-103.6	-3.9	-91.3	79.0	8.35647	0.813	-87.3	70.8	35.9	35.7	34.6	33.55302	6-7
8	1.367	19.713	503.90844	-108.0	-4.1	-90.3	77.6	8.19667	0.833	-84.9	70.2	37.9	34.0	31.8	24.67160	7-8
9	1.413	21.071	527.63390	-106.0	-4.5	-90.0	78.0	8.60229	0.780	-84.4	71.6	34.2	38.9	36.9	41.12513	8-9
10	1.471	22.603	557.75171	-104.4	-4.9	-89.6	78.4	9.07534	0.723	-83.8	73.1	30.5	44.0	42.1	46.43351	9-10
11	0.264	22.476	551.00678	-98.6	-4.1	-92.4	80.9	8.98778	0.734	-89.9	72.9	30.2	42.9	42.6	36.73861	10-11
12	-0.918	22.374	547.73672	-92.6	-3.2	-95.1	83.3	8.90931	0.742	-96.1	72.8	30.5	42.4	42.3	35.93765	11-12
13	-0.852	20.884	518.84006	-92.9	-3.1	-94.8	82.9	8.45896	0.799	-95.5	71.3	34.2	37.2	37.1	45.17883	12-13
14	-0.792	19.559	496.02745	-92.745	-3.249	-94.6	82.5	8.07119	0.851	-95.0	70.0	37.9	32.1	32.1	40.15755	13-14
15	0.278	19.629	498.50797	-100.8	-3.5	-92.5	80.0	8.13145	0.843	-89.9	70.1	37.7	32.7	32.2	32.48908	14-15
16	1.367	19.713	503.90844	-108.0	-4.1	-90.3	77.6	8.19667	0.833	-84.9	70.2	37.9	34.0	31.8	33.09402	15-16

RA-VIII CAMERA FB

23

FEB. 20, 1965 4 HR 53 MIN 41 SEC 708 MS TAB NO 45 ATLAS PHOTO NO 45 POD SEQUENCE NO 451

TRAJECTORY DATA					SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
					235.048		426.77454		-0.743		12.791		2162.275		2.433		-49.317		73.901	
PHOTO DATA																				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCO	PHAZ	EMIS	ALPHA	SCALE	PT-PT				
2	0.323	21.061	511.32712	-99.6	-3.8	-92.4	80.4	8.35848	0.790	-89.9	71.5	34.0	37.8	37.4	0.	1-2				
3	0.871	20.429	501.68222	-103.6	-4.0	-91.3	79.0	8.19066	0.812	-87.3	70.9	35.9	35.8	34.7	25.30863	2-3				
4	0.892	21.831	527.61890	-102.2	-4.3	-91.1	79.4	8.61482	0.757	-87.0	72.3	32.2	40.9	39.9	42.45083	3-4				
5	-0.246	21.729	522.99945	-96.0	-3.6	-93.7	81.8	8.53866	0.766	-92.9	72.2	32.2	40.0	40.0	34.62152	4-5				
6	-0.212	20.345	497.58111	-96.7	-3.3	-93.6	81.4	8.12440	0.821	-92.5	70.8	35.2	34.9	34.9	41.90552	5-6				
7	0.871	20.429	501.68222	-103.6	-4.0	-91.3	79.0	8.19066	0.812	-87.3	70.9	35.9	35.8	34.7	32.89134	6-7				
8	1.399	19.830	493.88020	-108.0	-4.1	-90.3	77.6	8.03351	0.832	-84.9	70.3	37.9	34.1	31.9	40.36494	8-9				
9	1.444	21.162	517.23005	-106.0	-4.5	-90.0	78.0	8.43264	0.779	-84.4	71.6	34.2	39.0	36.9	45.57751	9-10				
10	1.501	22.666	546.84254	-104.4	-4.9	-89.6	78.4	8.89783	0.722	-83.8	73.2	30.5	44.0	42.2	36.02681	10-11				
11	0.318	22.541	540.18479	-98.6	-4.1	-92.4	80.8	8.81125	0.733	-89.9	73.0	30.2	43.0	42.7	35.23545	11-12				
12	-0.841	22.439	536.91713	-92.7	-3.3	-95.1	83.2	8.73328	0.741	-96.1	72.9	30.4	42.4	42.4	44.33352	12-13				
13	-0.776	20.977	508.51450	-93.0	-3.1	-94.8	82.8	8.29059	0.798	-95.5	71.4	34.2	37.3	37.2	39.40464	13-14				
14	-0.718	19.677	486.07035	-93.4	-2.9	-94.6	82.4	7.90916	0.849	-95.0	70.1	37.9	32.2	32.2	31.84222	14-15				
15	0.331	19.747	488.55039	-100.9	-3.5	-92.5	80.0	7.96902	0.842	-89.9	70.2	37.7	32.8	32.4	32.44024	15-16				
16	1.399	19.830	493.88020	-108.0	-4.1	-90.3	77.6	8.03351	0.832	-84.9	70.3	37.9	34.1	31.9						

FEB. 20, 1965 4 HR 53 MIN 46 SEC 828 MS TAB NO 46 ATLAS PHOTO NO 46 POD SEQUENCE NO 453

TRAJECTORY DATA					SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
					229.928		417.32913		-0.683		12.999		2152.829		2.437		-49.182		73.899	
PHOTO DATA																				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCO	PHAZ	EMIS	ALPHA	SCALE	PT-PT				
2	0.377	21.153	500.97370	-99.7	-3.8	-92.5	80.3	8.18924	0.789	-89.9	71.6	34.0	37.9	37.5	0.	1-2				
3	0.913	20.534	491.50109	-103.7	-4.0	-91.3	78.9	8.02443	0.810	-87.3	71.0	35.9	35.9	34.8	24.80444	2-3				
4	0.934	21.909	517.00147	-102.2	-4.4	-91.1	79.3	8.44146	0.756	-87.0	72.4	32.2	40.9	39.9	41.64665	3-4				
5	-0.181	21.808	512.42546	-96.1	-3.6	-93.7	81.7	8.36601	0.766	-92.9	72.2	32.2	40.1	40.1	33.92875	4-5				
6	-0.148	20.451	487.43877	-96.8	-3.4	-93.6	81.3	7.95879	0.820	-92.6	70.9	35.9	35.0	35.0	41.10995	5-6				
7	0.913	20.534	491.50109	-103.7	-4.0	-91.3	78.9	8.02443	0.810	-87.3	71.0	35.9	35.9	34.8	32.22805	6-7				
8	1.430	19.946	483.82819	-108.0	-4.1	-90.3	77.6	7.86996	0.830	-84.9	70.4	37.9	34.2	32.0	32.70889	7-8				
9	1.475	21.254	506.79739	-106.0	-4.5	-90.0	77.9	8.26253	0.778	-84.4	71.7	34.2	39.1	37.0	39.60061	8-9				
10	1.531	22.729	535.89911	-104.4	-5.0	-89.6	78.3	8.71976	0.721	-83.8	73.2	30.5	44.1	42.2	44.71650	9-10				
11	0.372	22.605	529.33068	-98.7	-4.1	-92.4	80.7	8.63421	0.732	-89.9	73.1	30.2	43.1	42.7	35.31255	10-11				
12	-0.764	22.504	526.06796	-92.8	-3.3	-95.1	83.1	8.55676	0.740	-96.1	72.9	30.4	42.5	42.5	34.53113	11-12				
13	-0.701	21.070	498.16419	-93.1	-3.2	-94.9	82.7	8.12182	0.797	-95.5	71.5	34.2	37.4	37.3	43.48386	12-13				
14	-0.643	19.795	476.09303	-93.5	-3.0	-94.7	82.2	7.74681	0.848	-95.0	70.2	37.9	32.3	32.3	38.64809	13-14				
15	0.384	19.864	478.57067	-100.9	-3.5	-92.5	79.9	7.80624	0.841	-90.0	70.3	37.7	33.0	32.5	31.19402	14-15				
16	1.430	19.946	483.82819	-108.0	-4.1	-90.3	77.6	7.86996	0.830	-84.9	70.4	37.9	34.2	32.0	31.78476	15-16				

RA-VIII CAMERA FB

24

FEB. 20, 1965 4 HR 53 MIN 51 SEC 948 MS TAB NO 47 ATLAS PHOTO NO 47 POD SEQUENCE NO 455

TRAJECTORY DATA					SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
					224.808		407.88721		-0.622		13.209		2143.387		2.441		-49.046		73.897	
PHOTO DATA																				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCO	PHAZ	EMIS	ALPHA	SCALE	PT-PT				
2	0.430	21.245	490.59190	-99.8	-3.9	-92.5	80.2	8.01953	0.788	-89.9	71.7	34.0	38.0	37.6	0.	1-2				
3	0.955	20.638	481.29324	-103.7	-4.0	-91.3	78.9	7.85776	0.809	-87.3	71.1	35.9	36.1	34.9	24.29848	2-3				
4	0.976	21.987	506.35184	-102.3	-4.4	-91.1	79.3	8.26758	0.755	-87.0	72.5	32.2	41.0	40.0	40.83771	3-4				
5	-0.116	21.886	501.82157	-96.2	-3.7	-93.8	81.6	8.19288	0.765	-92.9	72.3	32.2	40.2	40.2	33.23581	4-5				
6	-0.083	20.556	477.27169	-96.9	-3.4	-93.6	81.2	7.79278	0.818	-92.6	71.0	35.9	35.2	35.1	40.30590	5-6				
7	0.955	20.638	481.29324	-103.7	-4.0	-91.3	78.9	7.85776	0.809	-87.3	71.1	35.9	36.1	34.9	31.56280	6-7				
8	1.462	20.063	473.75117	-108.0	-4.2	-90.2	77.5	7.70600	0.829	-84.9	70.6	37.9	34.3	32.2	23.22510	7-8				
9	1.506	21.344	496.33433	-106.0	-4.6	-90.0	77.9	8.09193	0.777	-84.4	71.8	34.2	39.2	37.1	38.83182	8-9				
10	1.561	22.791	524.91940	-104.4	-5.0	-89.6	78.3	8.54110	0.720	-83.8	73.3	30.5	44.2	42.3	43.85010	9-10				
11	0.425	22.669	518.44260	-98.8	-4.2	-92.4	80.6	8.45660	0.731	-89.9	73.1	30.2	43.1	42.8	34.59565	10-11				
12	-0.687	22.569	515.18745	-92.9	-3.4	-95.2	83.0	8.37974	0.739	-96.1	73.0	30.4	42.6	42.5	33.82454	11-12				
13	-0.625	21.163	487.78781	-93.2	-3.2	-94.9	82.6	7.95263	0.796	-95.5	71.6	34.2	37.4	37.4	42.62945	12-13				
14	-0.569	19.913	466.09453	-93.7	-3.0	-94.7	82.1	7.58411	0.847	-95.0	70.3	37.9	32.5	32.5	37.88762	13-14				
15	0.437	19.981	468.56769	-101.0	-3.6	-92.5	79.8	7.64307	0.840	-90.0	70.4	37.7	33.1	32.6	30.54419	14-15				
16	1.462	20.063	473.75117	-108.0	-4.2	-90.2	77.5	7.70600	0.829	-84.9	70.6	37.9	34.3	32.2	31.12748	15-16				

FEB. 20, 1965 4 HR 54 MIN 57 SEC 57 MS TAB NO 48 ATLAS PHOTO NO 48 POD SEQUENCE NO 457

TRAJECTORY DATA					SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
					219.688		398.44901		-0.561		13.420		2133.449		2.445		-48.909		73.895	
PHOTO DATA																				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCO	PHAZ	EMIS	ALPHA	SCALE	PT-PT				
2	0.483	21.335	480.15772	-99.8	-3.9	-92.5	80.2	7.84896	0.787	-89.9	71.8	34.0	38.1	37.7	0.	1-2				
3	0.997	20.741	471.03701	-103.7	-4.1	-91.3	78.8	7.69030	0.808	-87.3	71.2	35.9	36.2	35.0	23.78883	2-3				
4	1.018	22.062	495.64270	-102.3	-4.4	-91.1	79.2	8.09272	0.754	-87.0	72.5	32.2	41.1	40.1	40.01928	3-4				
5	-0.051	21.763	491.16109	-96.3	-3.7	-93.8	81.5	8.01882	0.764	-92.9	72.4	32.2	40.3	40.2	32.53783	4-5				
6	-0.019	20.660	467.05871	-97.0	-3.5	-93.7	81.1	7.62603	0.817	-92.6	71.1	35.9	35.3	35.2	39.49420	5-6				
7	0.997	20.741	471.03701	-103.7	-4.1	-91.3	78.8	7.69030	0.808	-87.3	71.2	35.9	36.2	35.0	30.89421	6-7				
8	1.493	20.177	463.62957	-108.0	-4.2	-90.2	77.5	7.54132	0.828	-84.9	70.7	37.9	34.5	32.3	22.73808	7-8				
9	1.536	21.433	485.81631	-106.0	-4.6	-90.0	77.9	7.92043	0.776	-84.4	71.9	34.2	39.3	37.2	38.05450	8-9				
10	1.591	22.851	513.87225	-104.5	-5.0	-89.6	78.3	8.36134	0.719	-83.8	73.3	30.5	44.2	42.3	42.97265	9-10				
11	0.479	22.730	507.49027	-98.8	-4.2	-92.5	80.6	8.27795	0.731	-89.9	73.2	30.2	43.2	42.8	33.87401	10-11				
12	-0.610	22.631	504.24590	-93.0	-3.5	-95.2	82.9	8.40173	0.739	-96.1	73.1	30.4	42.6	42.6	33.11371	11-12				
13	-0.549	21.253	477.36178	-93.4	-3.3	-95.0	82.4	7.78262	0.795	-95.5	71.7	34.2	37.5	37.5	41.76506	12-13				
14	-0.494	20.029	456.05600	-93.8	-3.1	-94.7	82.0	7.42076	0.846	-95.0	70.5	37.9	32.6</							

RA-VIII CAMERA FB

25

FEB. 20, 1965 9 HR 54 MIN 2 SEC 187 MS

TAB NO 49

ATLAS PHOTO NO 49

POD SEQUENCE NO 459

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
PHOTO DATA				214.568	389.01437	-0.500	13.633	2124.514	2.450	-48.771	73.893				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.537	21.425	469.69577	-99.9	-3.9	-92.5	80.1	7.67795	0.786	-90.0	71.9	34.0	38.2	37.8	0.
3	1.039	20.844	460.75446	-103.8	-4.1	-91.3	78.8	7.52241	0.807	-87.3	71.3	35.9	36.3	35.1	23.27752
4	1.060	22.138	484.90217	-102.3	-4.5	-91.1	79.2	7.91735	0.753	-87.0	72.6	32.2	41.2	40.2	39.19634
5	0.014	22.040	480.47149	-96.4	-3.8	-93.8	81.4	7.84429	0.763	-92.9	72.5	32.2	40.4	40.3	31.83746
6	0.045	20.763	456.82142	-97.1	-3.5	-93.7	81.0	7.45887	0.816	-92.6	71.2	35.9	35.4	35.3	38.67548
7	1.039	20.844	460.75446	-103.8	-4.1	-91.3	78.8	7.52241	0.807	-87.3	71.3	35.9	36.3	35.1	30.22365
8	1.524	20.291	453.48322	-108.0	-4.2	-90.2	77.5	7.37625	0.827	-84.9	70.8	37.9	34.6	32.4	22.24947
9	1.567	21.522	475.26850	-106.1	-4.6	-90.0	77.8	7.74844	0.775	-84.4	72.0	34.2	39.3	37.3	37.27291
10	1.620	22.911	502.78994	-104.5	-5.0	-89.6	78.2	8.18102	0.719	-83.8	73.4	30.5	44.3	42.4	42.09016
11	0.532	22.791	496.50504	-98.9	-4.3	-92.5	80.5	8.09876	0.730	-89.9	73.2	30.2	43.3	42.9	33.14981
12	-0.533	22.693	493.27413	-93.2	-3.5	-95.3	82.8	8.02323	0.738	-96.1	73.1	30.4	42.7	42.7	32.40073
13	-0.474	21.344	466.91029	-93.5	-3.3	-95.0	82.3	7.61221	0.794	-95.5	71.8	34.2	37.6	37.6	40.89629
14	-0.420	20.145	445.99653	-94.0	-3.1	-94.8	81.9	7.25707	0.845	-95.0	70.6	37.9	32.7	32.7	36.34739
15	0.543	20.212	448.45402	-101.1	-3.6	-92.5	79.7	7.31498	0.837	-90.0	70.7	37.7	33.3	32.8	29.23760
16	1.524	20.291	453.48322	-108.0	-4.2	-90.2	77.5	7.37625	0.827	-84.9	70.8	37.9	34.6	32.4	29.80489

FEB. 20, 1965 9 HR 54 MIN 7 SEC 307 MS

TAB NO 50

ATLAS PHOTO NO 50

POD SEQUENCE NO 461

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
PHOTO DATA				209.448	379.58359	-0.438	13.848	2115.084	2.454	-48.632	73.892				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.590	21.514	459.20772	-100.0	-4.0	-92.5	80.0	7.50650	0.785	-90.0	72.0	34.0	38.3	37.9	0.
3	1.081	20.946	450.44711	-103.8	-4.1	-91.3	78.7	7.35612	0.806	-87.3	71.4	35.9	36.4	35.2	22.76461
4	1.102	22.212	474.13220	-102.4	-4.5	-91.2	79.1	7.74150	0.752	-87.0	72.7	32.2	41.3	40.2	38.36925
5	0.078	22.116	469.75471	-96.5	-3.8	-93.8	81.3	7.66932	0.762	-92.9	72.6	32.2	40.4	40.4	31.13517
6	0.109	20.866	446.56131	-97.2	-3.5	-93.7	80.9	7.29135	0.815	-92.6	71.3	35.9	35.5	35.4	37.85427
7	1.081	20.946	450.44711	-103.8	-4.1	-91.3	78.7	7.35612	0.806	-87.3	71.4	35.9	36.4	35.2	29.55151
8	1.555	20.405	443.31349	-108.0	-4.2	-90.2	77.4	7.21079	0.826	-84.9	70.9	37.9	34.7	32.5	21.75938
9	1.597	21.610	466.69267	-106.1	-4.6	-90.0	77.8	7.57600	0.774	-84.4	72.1	34.2	39.4	37.4	36.48741
10	1.650	22.970	491.67471	-104.5	-5.1	-89.6	78.2	8.00015	0.718	-83.8	73.5	30.5	44.4	42.5	41.20305
11	0.586	22.852	485.48911	-99.0	-4.3	-92.5	80.4	7.91907	0.729	-89.9	73.3	30.2	43.3	43.0	32.42321
12	-0.456	22.754	482.27431	-93.3	-3.6	-95.3	82.6	7.84428	0.737	-96.1	73.2	30.5	42.8	42.7	31.68561
13	-0.398	21.434	456.43502	-93.6	-3.4	-95.0	82.2	7.44141	0.793	-95.5	71.9	34.2	37.7	37.7	40.02353
14	-0.345	20.261	435.91744	-94.1	-3.1	-94.8	81.8	7.09306	0.844	-95.0	70.7	37.9	32.8	32.8	35.57199
15	0.596	20.327	438.36401	-101.2	-3.7	-92.5	79.6	7.15039	0.836	-90.0	70.8	37.7	33.5	32.9	28.58204
16	1.555	20.405	443.31349	-108.0	-4.2	-90.2	77.4	7.21079	0.826	-84.9	70.9	37.9	34.7	32.5	29.14100

RA-VIII CAMERA FB

26

FEB. 20, 1965 9 HR 54 MIN 12 SEC 427 MS

TAB NO 51

ATLAS PHOTO NO 51

POD SEQUENCE NO 463

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
PHOTO DATA				204.328	370.15692	-0.375	14.065	2105.657	2.458	-48.491	73.891				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.643	21.604	448.70682	-100.0	-4.0	-92.5	80.0	7.33485	0.784	-90.0	72.1	34.0	38.4	38.0	0.
3	1.123	21.048	440.12690	-103.9	-4.2	-91.3	78.7	7.18562	0.805	-87.3	71.5	35.9	36.5	35.3	22.25117
4	1.143	22.288	463.34785	-102.4	-4.5	-91.2	79.1	7.56541	0.751	-87.0	72.8	32.2	41.4	40.3	37.54962
5	0.143	22.192	459.02542	-96.6	-3.8	-93.9	81.2	7.49414	0.761	-92.9	72.6	32.2	40.5	40.5	30.43181
6	0.173	20.970	436.29004	-97.3	-3.6	-93.7	80.8	7.12364	0.814	-92.6	71.4	35.9	35.6	35.5	37.03173
7	1.123	21.048	440.12690	-103.9	-4.2	-91.3	78.7	7.18562	0.805	-87.3	71.5	35.9	36.5	35.3	28.87843
8	1.586	20.520	433.13119	-108.0	-4.3	-90.2	77.4	7.04513	0.824	-84.9	71.0	37.9	34.8	32.6	21.26867
9	1.627	21.698	454.10247	-106.1	-4.7	-89.9	77.8	7.40332	0.773	-84.4	72.2	34.2	39.5	37.5	35.70024
10	1.679	23.029	480.54391	-104.6	-5.1	-89.6	78.1	7.81904	0.717	-83.8	73.5	30.5	44.4	42.5	40.31447
11	0.639	22.913	474.45924	-99.1	-4.3	-92.5	80.3	7.73915	0.728	-90.0	73.4	30.2	43.4	43.0	31.69539
12	-0.379	22.816	471.26278	-93.4	-3.6	-95.3	82.5	7.66513	0.737	-96.1	73.3	30.5	42.8	42.8	30.96950
13	-0.322	21.525	445.94891	-93.8	-3.4	-95.1	82.1	7.27043	0.792	-95.5	72.0	34.2	37.8	37.8	39.14972
14	-0.271	20.377	425.82902	-94.2	-3.2	-94.8	81.7	6.92890	0.843	-95.0	70.8	37.9	32.9	32.9	34.79527
15	0.649	20.443	428.26287	-101.3	-3.7	-92.5	79.6	6.98563	0.835	-90.0	70.9	37.7	33.6	33.1	27.92578
16	1.586	20.520	433.13119	-108.0	-4.3	-90.2	77.4	7.04513	0.824	-84.9	71.0	37.9	34.8	32.6	28.47615

FEB. 20, 1965 9 HR 54 MIN 17 SEC 547 MS

TAB NO 52

ATLAS PHOTO NO 52

POD SEQUENCE NO 465

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
PHOTO DATA				199.208	360.73447	-0.312	14.284	2096.234	2.462	-48.350	73.890				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.696	21.694	438.17618	-100.1	-4.1	-92.5	79.9	7.16271	0.783	-90.0	72.2	34.0	38.5	38.1	0.
3	1.164	21.150	429.77856	-103.9	-4.2	-91.3	78.6	7.01666	0.804	-87.3	71.6	35.9	36.6	35.4	21.73590
4	1.184	22.362	452.52997	-102.5	-4.6	-91.2	79.0	7.38878	0.750	-87.0	72.8	32.2	41.4	40.4	36.70716
5	0.208	22.268	448.26497	-96.7	-3.9	-93.9	81.1	7.31845	0.760	-92.9	72.7	32.2	40.6	40.5	29.72608
6	0.237	21.073	425.99269	-97.4	-3.6	-93.8	80.8	6.95551	0.813	-92.6	71.5	35.9	35.7	35.6	36.20470
7	1.164	21.150	429.77856	-103.9	-4.2	-91.3	78.6	7.01666	0.804	-87.3	71.6	35.9	36.6	35.4	28.20340
8	1.616	20.634	422.92246	-108.0	-4.3	-90.2	77.4	6.87904	0.823	-84.9	71.1	37.9	34.9	32.7	20.77625
9	1.657	21.786	443.48052	-106.1	-4.7	-89.9	77.7	7.23013	0.772	-84.4	72.3	34.2	39.6	37.6	34.90854
10	1.708	23.087	469.37566	-104.6	-5.1	-89.6	78.1	7.63731	0.716	-83.8	73.6	30.5	44.5	42.6	39.42055
11	0.692	22.973	463.39424	-99.1	-4.4	-92.5	80.3	7.55867	0.727	-90.0	73.4	30.2	43.5	43.1	30.96487
12	-0.302	22.877	460.21886	-93.5	-3.7	-95.4	82.4	7.48546	0.736	-96.1	73.3	30.4	42.9	42.9	30.25110
13	-0.247	21.615	435.43545	-93.9	-3.5	-95.1	82.0	7.09901	0.791	-95.5	72.1	34.2	37.9	37.9	38.27123
14	-0.197	20.493	415.71805	-94.4	-3.2	-94.9	81.6	6.76438	0.842	-95.0	70.9	37.9	33.1	33.1	34.01457
15	0.701	20.558	418.13705	-101.3	-3.7	-92.5	79.5	6.82046	0.834	-90.0	71.0	37.7	33.7	33.2	27.26792
16	1.616	20.634	422.92246	-108.0	-4.3	-90.2	77.4	6.87904	0.823	-84.9	71.1	37.9	34.9	32.7	27.80940

RA-VIII CAMERA FB

27

FEB. 20, 1965 9 HR 54 MIN 22 SEC 667 MS TAB NO 53 ATLAS PHOTO NO 53 POD SEQUENCE NO 467

TRAJECTORY DATA										SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
										194.088		351.31668		-0.248		14.505		2086.817		2.467		-48.207		73.890	
PHOTO DATA																									
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT									
2	0.748	21.782	427.61486	-100.2	-4.1	-92.6	79.8	6.99006	0.782	-90.0	72.3	34.0	38.6	38.2	0.	1-2									
3	1.206	21.252	419.40118	-103.9	-4.2	-91.3	78.6	6.84723	0.802	-87.3	71.7	35.9	36.7	35.6	21.21875	2-3									
4	1.226	22.436	441.67763	-102.5	-4.6	-91.2	78.9	7.21158	0.749	-87.0	72.9	32.2	41.5	40.5	35.86869	3-4									
5	0.272	22.343	437.47226	-96.8	-3.9	-93.9	81.1	7.14224	0.759	-92.9	72.8	32.2	40.7	40.6	29.01793	4-5									
6	0.300	21.176	415.66845	-97.5	-3.7	-93.8	80.7	6.78693	0.812	-92.6	71.6	35.9	35.8	35.7	35.31294	5-6									
7	1.206	21.252	419.40118	-103.9	-4.2	-91.3	78.6	6.84723	0.802	-87.3	71.7	35.9	36.7	35.6	27.52631	6-7									
8	1.647	20.748	412.68645	-108.0	-4.3	-90.2	77.4	6.71251	0.822	-84.9	71.2	37.9	35.1	32.9	20.28204	7-8									
9	1.687	21.874	432.82575	-106.1	-4.7	-89.9	77.7	7.05641	0.771	-84.4	72.4	34.2	39.7	37.7	34.11210	8-9									
10	1.737	23.145	458.16858	-104.6	-5.1	-89.6	78.1	7.45495	0.715	-83.8	73.6	30.5	44.6	42.6	38.52099	9-10									
11	0.745	23.032	452.29283	-99.2	-4.4	-92.5	80.2	7.37758	0.727	-90.0	73.5	30.2	43.5	43.2	30.23152	10-11									
12	-0.225	22.938	449.14132	-93.6	-3.7	-95.4	82.3	7.30525	0.735	-96.1	73.4	30.4	42.9	42.9	29.53020	11-12									
13	-0.171	21.705	424.89370	-94.0	-3.5	-95.1	81.9	6.92712	0.790	-95.5	72.1	34.2	38.0	38.0	37.38781	12-13									
14	-0.122	20.609	405.58380	-94.5	-3.3	-94.9	81.5	6.59947	0.841	-95.0	71.1	37.9	33.2	33.2	33.22972	13-14									
15	0.754	20.673	407.98579	-101.4	-3.8	-92.6	79.4	6.65487	0.832	-90.0	71.1	37.7	33.8	33.3	26.60828	14-15									
16	1.647	20.748	412.68645	-108.0	-4.3	-90.2	77.4	6.71251	0.822	-84.9	71.2	37.9	35.1	32.9	27.14068	15-16									

FEB. 20, 1965 9 HR 54 MIN 27 SEC 787 MS TAB NO 54 ATLAS PHOTO NO 54 POD SEQUENCE NO 469

TRAJECTORY DATA										SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
										188.968		341.90347		-0.184		14.728		2077.403		2.471		-48.063		73.889	
PHOTO DATA																									
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT									
2	0.801	21.871	417.01837	-100.3	-4.1	-92.6	79.7	6.81685	0.780	-90.0	72.3	34.0	38.7	38.2	0.	1-2									
3	1.247	21.353	408.99067	-104.0	-4.3	-91.3	78.5	6.67726	0.801	-87.3	71.8	35.9	36.8	35.7	20.69935	2-3									
4	1.267	22.509	430.78527	-102.6	-4.6	-91.2	78.9	7.03374	0.749	-87.0	73.0	32.2	41.6	40.5	35.02440	3-4									
5	0.337	22.417	426.64241	-96.9	-4.0	-93.9	81.0	6.96542	0.758	-92.9	72.9	32.2	40.8	40.7	28.30699	4-5									
6	0.364	21.278	405.31326	-97.6	-3.7	-93.8	80.6	6.61785	0.811	-92.6	71.7	35.9	35.9	35.8	34.53568	5-6									
7	1.247	21.353	408.99067	-104.0	-4.3	-91.3	78.5	6.67726	0.801	-87.3	71.8	35.9	36.8	35.7	26.84690	6-7									
8	1.677	20.861	402.41943	-108.0	-4.3	-90.2	77.3	6.54548	0.821	-84.9	71.4	37.9	35.2	33.0	19.78578	7-8									
9	1.717	21.960	422.13361	-106.1	-4.7	-89.9	77.7	6.88208	0.770	-84.4	72.5	34.2	39.8	37.8	33.31024	8-9									
10	1.765	23.202	446.91714	-104.6	-5.2	-89.6	78.0	7.27187	0.715	-83.8	73.7	30.5	44.6	42.6	37.61492	9-10									
11	0.798	23.091	441.14960	-99.3	-4.5	-92.6	80.1	7.19582	0.726	-90.0	73.6	30.2	43.6	43.2	29.49497	10-11									
12	-0.149	22.998	438.02488	-93.7	-3.8	-95.4	82.2	7.12440	0.734	-96.1	73.4	30.4	43.0	43.0	28.80651	11-12									
13	-0.096	21.794	414.31929	-94.1	-3.6	-95.2	81.8	6.75471	0.789	-95.5	72.2	34.2	38.1	38.1	36.49864	12-13									
14	-0.048	20.724	395.42268	-94.6	-3.3	-94.9	81.4	6.43413	0.839	-95.0	71.2	37.9	33.3	33.3	32.44003	13-14									
15	0.806	20.787	397.80545	-101.5	-3.8	-92.6	79.4	6.48881	0.831	-90.0	71.3	37.7	33.9	33.4	25.94670	14-15									
16	1.677	20.861	402.41943	-108.0	-4.3	-90.2	77.3	6.54548	0.821	-84.9	71.4	37.9	35.2	33.0	26.46972	15-16									

RA-VIII CAMERA FB

28

FEB. 20, 1965 9 HR 54 MIN 32 SEC 907 MS TAB NO 55 ATLAS PHOTO NO 55 POD SEQUENCE NO 471

TRAJECTORY DATA										SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
										183.848		332.49500		-0.119		14.954		2067.995		2.475		-47.918		73.889	
PHOTO DATA																									
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT									
2	0.854	21.958	406.39098	-100.3	-4.2	-92.6	79.7	6.64313	0.779	-90.0	72.4	34.0	38.8	38.3	0.	1-2									
3	1.289	21.453	398.55089	-104.0	-4.3	-91.3	78.5	6.50681	0.800	-87.3	71.9	35.9	36.9	35.8	20.17807	2-3									
4	1.308	22.582	419.85838	-102.6	-4.7	-91.2	78.8	6.85533	0.748	-87.1	73.1	32.2	41.7	40.6	34.17521	3-4									
5	0.401	22.491	415.79027	-97.0	-4.0	-94.0	80.9	6.78807	0.757	-92.9	73.0	32.2	40.8	40.8	27.59360	4-5									
6	0.428	21.379	394.93089	-97.7	-3.7	-93.8	80.5	6.44833	0.810	-92.6	71.8	35.9	36.0	35.9	33.69384	5-6									
7	1.289	21.453	398.55089	-104.0	-4.3	-91.3	78.5	6.50681	0.800	-87.3	71.9	35.9	36.9	35.8	26.16544	6-7									
8	1.707	20.973	392.12478	-108.0	-4.4	-90.2	77.3	6.37800	0.820	-84.9	71.5	37.9	35.3	33.1	19.28775	7-8									
9	1.746	22.046	411.40853	-106.2	-4.8	-89.9	77.7	6.70721	0.769	-84.4	72.6	34.2	39.9	37.9	32.50377	8-9									
10	1.794	23.258	435.62699	-104.7	-5.2	-89.6	78.0	7.08817	0.714	-83.8	73.8	30.5	44.7	42.8	36.70333	9-10									
11	0.851	23.149	429.97005	-99.3	-4.5	-92.6	80.0	7.01346	0.725	-90.0	73.6	30.2	43.7	43.3	28.75560	10-11									
12	-0.072	23.057	426.87488	-93.9	-3.9	-95.5	82.1	6.94302	0.734	-96.1	73.5	30.4	43.1	43.0	28.08024	11-12									
13	-0.020	21.882	403.71646	-94.3	-3.6	-95.2	81.7	6.58183	0.788	-95.5	72.3	34.2	38.2	38.2	35.60467	12-13									
14	0.026	20.839	385.23793	-94.8	-3.4	-95.0	81.3	6.26840	0.838	-95.0	71.3	37.9	33.4	33.4	31.64626	13-14									
15	0.859	20.901	387.59936	-101.5	-3.8	-92.6	79.3	6.32234	0.830	-90.0	71.4	37.7	34.1	33.5	25.28322	14-15									
16	1.707	20.973	392.12478	-108.0	-4.4	-90.2	77.3	6.37800	0.820	-84.9	71.5	37.9	35.3	33.1	25.79677	15-16									

FEB. 20, 1965 9 HR 54 MIN 38 SEC 27 MS TAB NO 56 ATLAS PHOTO NO 56 POD SEQUENCE NO 473

TRAJECTORY DATA										SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
										178.728		323.09167		-0.053		15.181		2058.592		2.480		-47.772		73.889	
PHOTO DATA																									
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT									
2	0.906	22.045	395.73143	-100.4	-4.2	-92.6	79.6	6.46888	0.778	-90.0	72.5	34.0	38.9	38.4	0.	1-2									
3	1.330	21.553	388.08059	-104.0	-4.3	-91.3	78.4	6.33586	0.799	-87.3	72.0	35.9	37.0	35.9	19.65482	2-3									
4	1.348	22.653	408.89529	-102.7	-4.7	-91.2	78.8	6.87632	0.747	-87.1	73.1	32.2	41.8	40.7	33.32082	3-4									
5	0.466	22.564	404.88444	-97.0	-4.1	-94.0	80.8	6.61018	0.756	-92.9	73.0	32.2	40.9	40.8	26.87763	4-5									
6	0.492	21.480	384.52023	-97.8	-3.8	-93.9	80.4	6.27835	0.809	-92.6	71.9	35.9	36.1	36.0	32.84713	5-6									
7	1.330	21.553	388.08059	-104.0	-4.3	-91.3	78.4	6.33586	0.799	-87.3	72.0	35.9	37.0	35.9	25.48181	6-7									
8	1.737	21.086	381.80144	-108.0	-4.4	-90.2	77.3	6.21006	0.818	-84.9	71.6	37.9	35.4	33.2	18.78786	7-8									
9	1.775	22.132	400.64909	-106.2	-4.8	-89.9	77.6	6.53178	0.768	-84.4	72.6	34.2	40.0	37.9	31.69237	8-9									
10	1.822	23.313	424.29646	-104.7	-5.2	-89.6	78.0	6.90380	0.713	-83.8	73.8	30.5	44.8	42.8	35.78602	9-10									
11	0.903	23.206	418.75257	-99.4	-4.6	-92.6	80.0	6.83048	0.724	-90.0	73.7	30.2	43.7	43.3	28.01328	10-11									
12	0.005	23.115	415.68988	-94.0	-3.9	-95.5	82.0	6.76106	0.733	-96.1	73.6	30.5	43.1	43.1	27.35130	11-12									
13	0.055	21.971	393.08397	-94.4	-3.7	-95.2	81.6	6.40847	0.787	-95.5	72.4	34.2	38.3	38.3	34.70567	12-13									
14	0.101	20.953	375.02862	-94.9	-3.4	-95.0	81.2	6.10228	0.837	-95.															

RA-VIII CAMERA FB

29

FEB. 20, 1965 9 HR 54 MIN 43 SEC 147 MS

TAB NO 57

ATLAS PHOTO NO 57

POD SEQUENCE NO 475

TRAJECTORY DATA				SEC TO IMPACT				ALT		LAT		LON		R		V		PTH		AZ	
				173.608				313.69351		0.013		15.410		2049.194		2.484		-47.624		73.890	
PHOTO DATA																					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT					
2	0.959	22.131	385.03658	-100.5	-4.3	-92.6	79.5	6.29405	0.777	-90.0	72.6	34.0	39.0	38.5	0.	1- 2					
3	1.371	21.653	377.57686	-104.1	-4.3	-91.3	78.4	6.16437	0.798	-87.3	72.1	35.9	37.1	36.0	19.12939	2- 3					
4	1.389	22.724	397.89246	-102.7	-4.7	-91.2	78.7	6.49667	0.746	-87.1	73.2	32.2	41.8	40.8	32.46072	3- 4					
5	0.530	22.637	393.95152	-97.1	-4.1	-94.0	80.7	6.43168	0.756	-92.9	73.1	32.2	41.0	40.9	26.15883	4- 5					
6	0.555	21.581	374.07845	-97.9	-3.8	-93.9	80.3	6.10786	0.807	-92.6	72.0	35.9	36.2	36.1	31.99507	5- 6					
7	1.371	21.653	377.57686	-104.1	-4.3	-91.3	78.4	6.16437	0.798	-87.3	72.1	35.9	37.1	36.0	24.79583	6- 7					
8	1.767	21.197	371.44664	-108.0	-4.4	-90.1	77.3	6.04160	0.817	-84.9	71.7	37.9	35.5	33.3	18.28592	7- 8					
9	1.805	22.216	389.85205	-106.2	-4.8	-89.9	77.6	6.35574	0.767	-84.4	72.7	34.2	40.1	38.0	30.87563	8- 9					
10	1.850	23.367	412.92158	-104.7	-5.3	-89.6	77.9	6.71872	0.712	-83.8	73.9	30.5	44.8	42.9	34.86232	9-10					
11	0.956	23.262	407.49342	-99.5	-4.6	-92.6	79.9	6.64683	0.724	-90.0	73.7	30.2	43.8	43.4	27.26774	10-11					
12	0.082	23.173	404.46620	-94.1	-4.0	-95.5	81.9	6.57848	0.732	-96.1	73.6	30.5	43.2	43.2	26.61964	11-12					
13	0.131	22.058	382.41877	-94.5	-3.7	-95.3	81.5	6.23458	0.786	-95.5	72.5	34.2	38.3	38.3	33.80109	12-13					
14	0.177	21.067	364.79219	-95.1	-3.5	-95.0	81.1	5.93571	0.836	-95.0	71.5	37.9	33.6	33.6	30.04534	13-14					
15	0.963	21.128	367.10410	-101.7	-3.9	-92.6	79.2	5.98802	0.828	-90.0	71.6	37.7	34.3	33.8	23.95098	14-15					
16	1.767	21.197	371.44664	-108.0	-4.4	-90.1	77.3	6.04160	0.817	-84.9	71.7	37.9	35.5	33.3	24.44444	15-16					

FEB. 20, 1965 9 HR 54 MIN 43 SEC 247 MS

TAB NO 58

ATLAS PHOTO NO 58

POD SEQUENCE NO 477

TRAJECTORY DATA				SEC TO IMPACT				ALT		LAT		LON		R		V		PTH		AZ	
				168.488				304.30098		0.080		15.641		2039.801		2.488		-47.475		73.890	
PHOTO DATA																					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT					
2	1.011	22.217	374.31003	-100.5	-4.3	-92.6	79.5	6.11871	0.776	-90.0	72.7	34.0	39.1	38.6	0.	1- 2					
3	1.412	21.751	367.04305	-104.1	-4.4	-91.3	78.3	5.99238	0.797	-87.3	72.2	35.9	37.3	36.1	18.60204	2- 3					
4	1.430	22.795	386.85410	-102.8	-4.8	-91.2	78.7	6.31644	0.745	-87.1	73.3	32.2	41.9	40.8	31.59562	3- 4					
5	0.594	22.709	382.98552	-97.2	-4.2	-94.0	80.6	6.25264	0.755	-92.9	73.2	32.2	41.1	41.0	25.43752	4- 5					
6	0.619	21.681	363.60874	-98.0	-3.9	-93.9	80.2	5.93691	0.806	-92.6	72.1	35.9	36.3	36.2	31.13831	5- 6					
7	1.412	21.751	367.04305	-104.1	-4.4	-91.3	78.3	5.99238	0.797	-87.3	72.2	35.9	37.3	36.1	24.10771	6- 7					
8	1.797	21.308	361.06345	-108.0	-4.4	-90.1	77.2	5.87269	0.816	-84.9	71.8	37.9	35.6	33.4	17.78216	7- 8					
9	1.834	22.300	379.02120	-106.2	-4.8	-89.9	77.6	6.17915	0.766	-84.4	72.8	34.2	40.2	38.1	30.05413	8- 9					
10	1.878	23.420	401.50719	-104.7	-5.3	-89.6	77.9	6.53299	0.712	-83.8	73.9	30.5	44.9	42.9	33.93309	9-10					
11	1.009	23.318	396.19716	-99.6	-4.6	-92.6	79.8	6.46257	0.723	-90.0	73.8	30.2	43.8	43.4	26.51931	10-11					
12	0.159	23.230	393.20829	-94.2	-4.0	-95.6	81.7	6.39534	0.732	-96.1	73.7	30.5	43.2	43.2	25.88543	11-12					
13	0.206	22.145	371.72441	-94.6	-3.8	-95.3	81.4	6.06022	0.785	-95.5	72.6	34.2	38.4	38.4	32.89170	12-13					
14	0.249	21.181	354.53145	-95.2	-3.5	-95.1	81.0	5.76875	0.835	-95.0	71.6	37.9	33.8	33.8	29.23834	13-14					
15	1.016	21.240	356.81524	-101.7	-4.0	-92.6	79.1	5.82019	0.827	-90.0	71.7	37.7	34.4	33.9	23.28208	14-15					
16	1.797	21.308	361.06345	-108.0	-4.4	-90.1	77.2	5.87269	0.816	-84.9	71.8	37.9	35.6	33.4	23.76507	15-16					

RA-VIII CAMERA FB

30

FEB. 20, 1965 9 HR 54 MIN 53 SEC 387 MS

TAB NO 59

ATLAS PHOTO NO 59

POD SEQUENCE NO 479

TRAJECTORY DATA				SEC TO IMPACT				ALT		LAT		LON		R		V		PTH		AZ	
				163.368				294.91408		0.148		15.875		2030.414		2.493		-47.325		73.891	
PHOTO DATA																					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT					
2	1.064	22.302	363.55365	-100.6	-4.3	-92.6	79.4	5.94288	0.775	-90.0	72.8	34.0	39.2	38.7	0.	1- 2					
3	1.453	21.850	356.48131	-104.2	-4.4	-91.3	78.3	5.81994	0.796	-87.3	72.3	35.9	37.4	36.2	18.07271	2- 3					
4	1.471	22.864	375.78280	-102.8	-4.8	-91.2	78.6	6.13567	0.744	-87.1	73.4	32.2	42.0	40.9	30.72591	3- 4					
5	0.659	22.780	371.98789	-97.3	-4.2	-94.1	80.5	6.07308	0.754	-92.9	73.2	32.2	41.1	41.1	24.71398	4- 5					
6	0.683	21.781	353.11224	-98.1	-3.9	-93.9	80.1	5.76552	0.805	-92.6	72.3	35.9	36.4	36.3	30.27712	5- 6					
7	1.453	21.850	356.48131	-104.2	-4.4	-91.3	78.3	5.81994	0.796	-87.3	72.3	35.9	37.4	36.2	23.41771	6- 7					
8	1.827	21.419	350.65438	-108.0	-4.4	-90.1	77.2	5.70335	0.815	-84.9	71.9	37.9	35.8	33.5	17.27658	7- 8					
9	1.863	22.384	368.15948	-106.2	-4.9	-89.9	77.5	6.00205	0.765	-84.4	72.9	34.2	40.3	38.2	29.22825	8- 9					
10	1.906	23.473	390.05681	-104.8	-5.3	-89.6	77.9	6.34667	0.711	-83.8	74.0	30.5	44.9	43.0	32.99891	9-10					
11	1.061	23.373	384.86604	-99.6	-4.7	-92.6	79.7	6.27774	0.722	-90.0	73.9	30.2	43.9	43.5	25.76843	10-11					
12	0.236	23.286	381.91717	-94.3	-4.1	-95.6	81.6	6.21166	0.731	-96.1	73.7	30.5	43.3	43.3	25.14893	11-12					
13	0.282	22.231	361.00166	-94.8	-3.8	-95.3	81.3	5.88539	0.784	-95.5	72.7	34.2	38.5	38.5	31.97766	12-13					
14	0.324	21.294	344.24701	-95.3	-3.5	-95.1	80.9	5.60140	0.834	-95.0	71.8	37.9	33.9	33.9	28.49170	13-14					
15	1.068	21.353	346.50138	-101.8	-4.0	-92.6	79.0	5.65196	0.825	-90.0	71.8	37.7	34.6	34.0	22.61153	14-15					
16	1.827	21.419	350.65438	-108.0	-4.4	-90.1	77.2	5.70335	0.815	-84.9	71.9	37.9	35.8	33.5	23.08395	15-16					

FEB. 20, 1965 9 HR 54 MIN 58 SEC 507 MS

TAB NO 60

ATLAS PHOTO NO 60

POD SEQUENCE NO 481

TRAJECTORY DATA				SEC TO IMPACT				ALT		LAT		LON		R		V		PTH		AZ	
				158.248				285.53299		0.216		16.110		2021.033		2.497		-47.174		73.893	
PHOTO DATA																					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT					
2	1.117	22.387	352.76949	-100.7	-4.4	-92.7	79.3	5.76659	0.774	-90.0	72.9	34.0	39.3	38.8	0.	1- 2					
3	1.494	21.948	345.89412	-104.2	-4.4	-91.3	78.2	5.64709	0.795	-87.3	72.4	35.9	37.5	36.3	17.54136	2- 3					
4	1.512	22.934	364.68142	-102.9	-4.8	-91.2	78.6	5.95441	0.743	-87.1	73.4	32.2	42.1	41.0	29.85194	3- 4					
5	0.724	22.851	360.96030	-97.4	-4.3	-94.1	80.4	5.89304	0.753	-92.9	73.3	32.2	41.2	41.1	23.98853	4- 5					
6	0.747	21.880	342.59042	-98.2	-4.0	-93.9	80.1	5.59373	0.804	-92.6	72.4	35.9	36.6	36.4	29.41170	5- 6					
7	1.494	21.948	345.89412	-104.2	-4.4	-91.3	78.2	5.64709	0.795	-87.3	72.4	35.9	37.5	36.3	22.72611	6- 7					
8	1.857	21.530	340.22226	-108.0	-4.5	-90.1	77.2	5.53364	0.814	-84.9	72.0	37.9	35.9	33.6	16.76916	7- 8					
9	1.892	22.467	357.27018	-106.3	-4.9	-89.9	77.5	6.02451	0.764	-84.4	73.0	34.2	40.4	38.3	28.39843	8- 9					
10	1.935	23.525	378.57424	-104.8	-5.3	-89.6	77.8	6.15984	0.710	-83.8	74.0	30.5	45.0	43.0	32.06027	9-10					
11	1.115	23.427	373.50250	-99.7	-4.7	-92.7	79.7	6.09238	0.721	-90.0	73.9	30.2	44.0	43.5	25.01558	10-11					
12	0.313	23.342	370.59404	-94.5	-4.1	-95.7</															

RA-VIII CAMERA FB

31

FEB. 20, 1965 4 HR 55 MIN 3 SEC 627 MS

TAB NO 61

ATLAS PHOTO NO 61

POD SEQUENCE NO 483

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
					153.128		276.15811	0.284	16.348	2011.658	2.502	-47.021	73.894				
PHOTO DATA							A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA										
2	1.170	22.472	341.95169	-100.8	-4.4	-92.7	79.2	5.58976	0.773	-90.0	73.0	34.0	39.3	38.8	1	2	
3	1.535	22.046	335.27481	-104.2	-4.5	-91.3	78.2	5.47371	0.793	-87.3	72.5	35.9	37.6	36.4	17.00802	2	3
4	1.552	23.002	353.54229	-102.9	-4.9	-91.2	78.5	5.77253	0.742	-87.1	73.5	32.2	42.1	41.0	28.97273	3	4
5	0.789	22.921	349.89771	-97.5	-4.3	-94.1	80.3	5.71242	0.752	-92.9	73.4	32.2	41.3	41.2	23.26038	4	5
6	0.811	21.979	332.03891	-98.3	-4.0	-94.0	80.0	5.42144	0.803	-92.6	72.5	35.9	36.7	36.5	28.94157	5	6
7	1.535	22.046	335.27481	-104.2	-4.5	-91.3	78.2	5.47371	0.793	-87.3	72.5	35.9	37.6	36.4	22.03220	6	7
8	1.887	21.640	329.75969	-108.0	-4.5	-90.1	77.1	5.36344	0.812	-84.9	72.2	37.9	36.0	33.8	16.25984	7	8
9	1.921	22.550	346.34483	-106.3	-4.9	-89.9	77.4	5.64638	0.763	-84.4	73.1	34.2	40.4	38.4	27.56362	8	9
10	1.963	23.577	367.04972	-104.8	-5.4	-89.6	77.8	5.97232	0.709	-83.9	74.1	30.5	45.1	43.1	31.11585	9	10
11	1.167	23.481	362.09975	-99.8	-4.8	-92.7	79.6	5.90638	0.721	-90.0	74.0	30.2	44.0	43.6	24.25963	10	11
12	0.391	23.397	359.23491	-94.6	-4.2	-95.7	81.4	5.84269	0.729	-96.1	73.9	30.5	43.4	43.4	23.66908	11	12
13	0.434	22.403	339.47048	-95.0	-3.9	-95.4	81.0	5.53434	0.782	-95.5	72.9	34.2	38.7	38.7	30.13582	12	13
14	0.474	21.519	323.60650	-95.6	-3.6	-95.2	80.7	5.26555	0.832	-95.0	72.0	37.9	34.1	34.1	26.79302	13	14
15	1.173	21.576	325.79901	-102.0	-4.1	-92.6	78.9	5.31427	0.823	-90.0	72.1	37.7	34.8	34.2	21.26556	14	15
16	1.887	21.640	329.75969	-108.0	-4.5	-90.1	77.1	5.36344	0.812	-84.9	72.2	37.9	36.0	33.8	21.71662	15	16

FEB. 20, 1965 4 HR 54 MIN 8 SEC 747 MS

TAB NO 62

ATLAS PHOTO NO 62

POD SEQUENCE NO 485

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				148.008		266.78963	0.354	16.588	2002.290	2.506	-46.867	73.896				
PHOTO DATA						A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT		
PT	LAT	LUN	RANGE	AZS/C	AZN	AZSUN	AZA									
2	1.222	22.556	331.09964	-100.8	-4.5	-92.7	79.2	5.41236	0.772	-90.0	73.0	34.0	39.4	38.9	1-2	
3	1.576	22.143	324.62278	-104.3	-4.5	-91.3	78.1	5.29979	0.792	-87.3	72.6	35.9	37.7	36.5	16.47266	2-3
4	1.593	23.070	342.36480	-103.0	-4.9	-91.2	78.4	5.59003	0.741	-87.1	73.6	32.2	42.2	41.1	28.08822	3-4
5	0.853	22.091	338.79952	-97.6	-4.4	-94.1	80.2	5.53123	0.751	-92.9	73.5	32.2	41.4	41.3	22.52947	4-5
6	0.875	22.078	321.45712	-98.4	-4.1	-94.0	79.9	5.24867	0.802	-92.6	72.6	35.9	36.8	36.6	27.66611	5-6
7	1.576	22.143	324.62278	-104.3	-4.5	-91.3	78.1	5.29979	0.792	-87.3	72.6	35.9	37.7	36.5	21.33596	6-7
8	1.917	21.750	319.26611	-108.0	-4.5	-90.1	77.1	5.19274	0.811	-84.9	72.3	37.9	36.1	33.9	15.74857	7-8
9	1.950	22.632	335.38279	-106.3	-5.0	-89.9	77.4	5.46766	0.762	-84.4	73.1	34.2	40.5	38.4	26.72370	8-9
10	1.990	23.628	355.48261	-104.9	-5.4	-89.6	77.7	5.78411	0.709	-83.9	74.1	30.5	45.1	43.1	30.16563	9-10
11	1.220	23.534	350.65714	-99.9	-4.8	-92.7	79.5	5.71973	0.720	-90.0	74.0	30.2	44.1	43.7	23.50055	10-11
12	0.468	23.452	347.83905	-94.7	-4.3	-95.7	81.3	5.65731	0.729	-96.1	73.9	30.5	43.5	43.5	22.92503	11-12
13	0.510	22.488	328.65797	-95.2	-4.0	-95.4	80.9	5.35805	0.781	-95.5	73.0	34.2	38.8	38.8	29.20734	12-13
14	0.548	21.632	313.24690	-95.8	-3.7	-95.2	80.6	5.09698	0.830	-95.0	72.1	37.9	34.2	34.2	25.96926	13-14
15	1.226	21.687	315.40476	-102.0	-4.1	-92.7	78.8	5.14672	0.822	-90.0	72.2	37.7	34.9	34.3	20.58961	14-15
16	1.917	21.750	319.26611	-108.0	-4.5	-90.1	77.1	5.19274	0.811	-84.9	72.3	37.9	36.1	33.9	21.02958	15-16

RA-VIII CAMERA FB

32

FEB. 20, 1965 4 HR 55 MIN 13 SEC 867 MS

TAB NO 63

ATLAS PHOTO NO 63

POD SEQUENCE NO 487

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
				142.888		257.42796	0.424	16.831	1992.928	2.511	-46.711	73.898		
PHOTO DATA						A*	B/A	AZPHAZ	INCO	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGF	AZS/C	AZN	AZSUN	AZA							
2	1.275	22.639	320.21306	-100.9	-4.5	-92.7	79.1	5.23441	0.771	-90.0	73.1	34.0	39.5	39.0
3	1.617	22.239	313.93779	-104.3	-4.5	-91.3	78.1	5.12534	0.791	-87.3	72.7	35.9	37.8	36.5
4	1.633	23.138	331.14866	-103.0	-4.9	-91.2	78.4	5.40689	0.740	-87.1	73.6	32.2	42.3	41.2
5	0.918	23.060	327.66547	-97.7	-4.4	-94.2	80.1	5.34944	0.750	-92.9	73.5	32.2	41.5	41.4
6	0.939	22.176	310.84481	-98.6	-4.1	-94.0	79.8	5.07539	0.801	-92.6	72.7	35.9	36.9	36.7
7	1.617	22.239	313.93779	-104.3	-4.5	-91.3	78.1	5.12534	0.791	-87.3	72.7	35.9	37.8	36.5
8	1.947	21.859	308.74124	-108.0	-4.6	-90.1	77.1	5.02153	0.810	-84.9	72.4	37.9	36.2	34.0
9	1.979	22.713	324.38382	-106.3	-5.0	-89.9	77.4	5.28833	0.761	-84.4	73.2	34.2	40.6	38.5
10	2.018	23.678	343.87264	-104.9	-5.4	-89.6	77.7	5.59520	0.708	-83.9	74.2	30.5	45.2	43.2
11	1.273	23.586	339.17439	-99.9	-4.9	-92.7	79.4	5.53243	0.719	-90.0	74.1	30.2	44.1	43.7
12	0.545	23.505	336.40630	-94.8	-4.3	-95.8	81.1	5.47134	0.728	-96.1	74.0	30.5	43.5	43.5
13	0.586	22.573	317.81374	-95.3	-4.0	-95.5	80.8	5.18124	0.780	-95.5	73.0	34.2	38.9	38.9
14	0.623	21.744	302.86066	-95.9	-3.8	-95.2	80.5	4.92798	0.829	-95.0	72.2	37.9	34.3	34.3
15	1.278	21.798	304.98137	-102.1	-4.1	-92.7	78.8	4.97470	0.821	-90.0	72.3	37.7	35.0	34.4
16	1.947	21.859	308.74124	-108.0	-4.6	-90.1	77.1	5.02153	0.810	-84.9	72.4	37.9	36.2	34.0

FEB. 20, 1965 4 HR 55 MIN 18 SEC 987 MS

TAB NO 64

ATLAS PHOTO NO 64

POD SEQUENCE NO 489

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				137.768		248.07303	0.494	17.075	1983.573	2.516	-46.555	73.900			
PHOTO DATA						A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA								
2	1.327	22.721	309.29103	-101.0	-4.5	-92.7	79.0	5.05587	0.770	-90.0	73.2	34.0	39.6	39.1	1-2
3	1.658	22.335	303.21889	-104.4	-4.6	-91.3	78.0	4.95034	0.790	-87.3	72.8	35.9	37.9	36.6	2-3
4	1.674	23.204	319.89290	-103.1	-5.0	-91.2	78.3	5.22311	0.740	-87.1	73.7	32.2	42.4	41.2	26.30313
5	0.983	23.128	316.49460	-97.9	-4.5	-94.2	80.0	5.16706	0.749	-92.9	73.6	32.2	41.5	41.4	21.05922
6	1.003	22.273	300.20109	-98.7	-4.2	-94.0	79.7	4.90160	0.800	-92.6	72.8	35.9	37.0	36.8	25.90055
7	1.658	22.335	303.21889	-104.4	-4.6	-91.3	78.0	4.95034	0.790	-87.3	72.8	35.9	37.9	36.6	19.79362
8	1.976	21.968	298.18418	-108.0	-4.6	-90.1	77.0	4.84979	0.809	-84.9	72.5	37.9	36.3	34.1	14.72017
9	2.008	22.794	313.34696	-106.3	-5.0	-89.9	77.3	5.10839	0.760	-84.4	73.3	34.2	40.7	38.6	25.0285
10	2.045	23.726	332.21876	-104.9	-5.5	-89.6	77.6	5.40557	0.707	-83.9	74.2	30.5	45.2	43.2	28.7759
11	1.325	23.637	327.65050	-100.0	-4.9	-92.7	79.3	5.34466	0.718	-90.0	74.1	30.2	44.2	43.8	21.97281
12	0.622	23.559	324.93563	-94.9	-4.4	-95.8	81.0	5.28475	0.727	-96.1	74.0	30.5	43.6	43.6	21.42844
13	0.662	22.657	306.93690	-95.4	-4.1	-95.5	80.7	5.00391	0.779	-95.5	73.1	34.2	39.0	39.0	27.33513
14	0.698	21.855	292.44691	-96.0	-3.8	-95.3	80.3	4.75853	0.828	-95.0	72.3	37.9	34.4	34.4	38.0825
15	1.330	21.908	294.52798	-102.2	-4.2	-92.7	78.7	4.80418	0.819	-90.0	72.4	37.7	35.2	34.5	19.23165
16	1.976	21.968	298.18418	-108.0	-4.6	-90.1	77.0	4.84979	0.809	-84.9	72.5	37.9	36.3	34.1	19.64853

RA-VIII CAMERA FB

33

FEB. 20, 1965 9 HR 55 MIN 24 SEC 107 MS

TAB NO 65

ATLAS PHOTO NO 65

POD SEQUENCE NO 491

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					132.648		238.72507	0.565	17.322	1974.225	2.520	-46.397	73.903			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.379	22.803	298.33284	-101.1	-4.6	-92.7	78.9	4.87674	0.769	-90.0	73.3	34.0	39.7	39.2	0.	1- 2
3	1.698	22.431	292.46545	-104.4	-4.6	-91.3	78.0	4.77477	0.789	-87.3	72.9	35.9	38.0	36.7	14.85421	2- 3
4	1.714	23.270	308.59679	-103.1	-5.0	-91.3	78.3	5.03867	0.739	-87.1	73.8	32.2	42.4	41.3	25.40236	3- 4
5	1.047	23.196	305.28614	-98.0	-4.5	-94.2	79.9	4.98407	0.749	-92.9	73.7	32.2	41.6	41.5	20.31976	4- 5
6	1.066	22.370	299.52528	-98.8	-4.2	-94.1	79.6	4.72729	0.799	-92.6	72.9	35.9	37.1	36.9	25.01007	5- 6
7	1.698	22.431	292.46545	-104.4	-4.6	-91.3	78.0	4.77477	0.789	-87.3	72.9	35.9	38.0	36.7	19.23280	6- 7
8	2.005	22.076	287.59436	-108.0	-4.6	-90.1	77.0	4.67753	0.808	-84.9	72.6	37.9	36.5	34.2	14.20291	7- 8
9	2.036	22.874	302.27153	-106.4	-5.0	-89.9	77.3	4.92782	0.759	-84.5	73.4	34.2	40.8	38.7	24.17304	8- 9
10	2.072	23.775	320.52028	-105.0	-5.5	-89.6	77.6	5.21523	0.707	-83.9	74.3	30.5	45.3	43.3	27.27058	9-10
11	1.378	23.688	316.08473	-100.1	-5.0	-92.8	79.3	5.15580	0.718	-90.0	74.2	30.2	44.3	43.8	21.20403	10-11
12	0.699	23.611	313.42626	-95.1	-4.5	-95.8	80.9	5.09754	0.727	-96.1	74.1	30.5	43.6	43.6	20.67578	11-12
13	0.738	22.740	296.02670	-95.6	-4.2	-95.5	80.6	4.82603	0.778	-95.5	73.2	34.2	39.0	39.0	26.39120	12-13
14	0.772	21.966	282.00501	-96.2	-3.9	-95.3	80.2	4.58862	0.827	-95.0	72.4	37.9	34.6	34.6	23.47084	13-14
15	1.382	22.018	284.04395	-102.2	-4.2	-92.7	78.6	4.63317	0.818	-90.0	72.5	37.7	35.3	34.6	18.54952	14-15
16	2.005	22.076	287.59436	-108.0	-4.6	-90.1	77.0	4.67753	0.808	-84.9	72.6	37.9	36.5	34.2	18.95444	15-16

FEB. 20, 1965 9 HR 55 MIN 29 SEC 237 MS

TAB NO 66

ATLAS PHOTO NO 66

POD SEQUENCE NO 493

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					127.528		229.38454	0.637	17.572	1964.885	2.525	-46.237	73.906			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.431	22.885	287.33812	-101.1	-4.6	-92.7	78.9	4.69701	0.768	-90.0	73.4	34.0	39.8	39.3	0.	1- 2
3	1.739	22.526	281.67712	-104.5	-4.7	-91.3	77.9	4.59864	0.788	-87.3	73.0	35.9	38.1	36.8	14.31045	2- 3
4	1.753	23.335	297.25996	-103.2	-5.1	-91.3	78.2	4.85357	0.738	-87.1	73.8	32.2	42.5	41.4	24.49605	3- 4
5	1.111	23.263	294.03978	-98.1	-4.6	-94.2	79.8	4.80045	0.748	-92.9	73.8	32.2	41.7	41.6	19.57736	4- 5
6	1.130	22.467	278.81704	-98.9	-4.3	-94.1	79.5	4.55245	0.798	-92.6	73.0	35.9	37.2	37.0	24.11440	5- 6
7	1.739	22.526	281.67712	-104.5	-4.7	-91.3	77.9	4.59864	0.788	-87.3	73.0	35.9	38.1	36.8	18.52677	6- 7
8	2.034	22.184	276.97139	-108.1	-4.6	-90.0	77.0	4.50473	0.806	-84.9	72.7	37.9	36.6	34.3	13.68360	7- 8
9	2.064	22.953	291.15715	-106.4	-5.1	-89.9	77.2	4.74661	0.758	-84.5	73.5	34.2	40.9	38.8	23.31227	8- 9
10	2.099	23.822	308.77681	-105.0	-5.5	-89.6	77.5	5.02414	0.706	-83.9	74.3	30.5	45.3	43.3	26.30553	9-10
11	1.430	23.737	304.47668	-100.2	-5.0	-92.8	79.2	4.66645	0.717	-90.0	74.2	30.2	44.3	43.9	20.43194	10-11
12	0.776	23.662	301.87785	-95.2	-4.5	-95.9	80.8	4.90969	0.726	-96.1	74.1	30.5	43.7	43.7	19.92016	11-12
13	0.813	22.823	285.08279	-95.7	-4.2	-95.6	80.5	4.64760	0.777	-95.5	73.3	34.2	39.1	39.1	25.44200	12-13
14	0.846	22.077	271.53463	-96.3	-3.9	-95.3	80.1	4.41825	0.826	-95.0	72.6	37.9	34.7	34.7	22.62876	13-14
15	1.434	22.128	273.52893	-102.3	-4.3	-92.7	78.5	4.46165	0.817	-90.0	72.6	37.7	35.4	34.8	17.86525	14-15
16	2.034	22.184	276.97139	-108.1	-4.6	-90.0	77.0	4.50473	0.806	-84.9	72.7	37.9	36.6	34.3	18.25791	15-16

RA-VIII CAMERA FB

34

FEB. 20, 1965 9 HR 55 MIN 34 SEC 347 MS

TAB NO 67

ATLAS PHOTO NO 67

POD SEQUENCE NO 495

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					122.408		220.05168	0.710	17.823	1955.552	2.530	-46.076	73.910			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.483	22.965	276.30654	-101.2	-4.7	-92.8	78.8	4.51668	0.767	-90.0	73.5	34.0	39.9	39.3	0.	1- 2
3	1.779	22.620	270.85349	-104.5	-4.7	-91.3	77.8	4.42193	0.787	-87.3	73.1	35.9	38.2	36.9	13.76454	2- 3
4	1.793	23.399	285.88206	-103.2	-5.1	-91.3	78.1	4.66779	0.737	-87.1	73.9	32.2	42.6	41.4	23.58418	3- 4
5	1.175	23.329	282.75520	-98.2	-4.6	-94.3	79.7	4.61622	0.747	-92.9	73.8	32.2	41.7	41.6	18.83199	4- 5
6	1.193	22.563	268.07604	-99.0	-4.3	-94.1	79.4	4.37707	0.796	-92.6	73.1	35.9	37.3	37.1	23.21356	5- 6
7	1.779	22.620	270.85349	-104.5	-4.7	-91.3	77.8	4.42193	0.787	-87.3	73.1	35.9	38.2	36.9	17.81821	6- 7
8	2.063	22.291	266.31489	-108.1	-4.7	-90.0	76.9	4.33138	0.805	-84.9	72.8	37.9	36.7	34.4	13.16222	7- 8
9	2.091	23.032	280.00344	-106.4	-5.1	-89.9	77.2	4.56476	0.757	-84.5	73.6	34.2	41.0	38.9	22.44613	8- 9
10	2.125	23.868	296.98799	-105.0	-5.5	-89.6	77.5	4.83233	0.705	-83.9	74.4	30.5	45.4	43.4	25.32546	9-10
11	1.482	23.786	292.82610	-100.3	-5.1	-92.8	79.1	4.77641	0.716	-90.0	74.3	30.2	44.4	43.9	19.65651	10-11
12	0.853	23.713	290.29017	-95.3	-4.6	-95.9	80.7	4.72120	0.725	-96.1	74.2	30.5	43.7	43.7	19.16153	11-12
13	0.889	22.905	274.10494	-95.8	-4.3	-95.6	80.3	4.46862	0.776	-95.5	73.4	34.2	39.2	39.2	24.48753	12-13
14	0.921	22.187	261.03552	-96.4	-4.0	-95.4	80.0	4.24741	0.825	-95.0	72.7	37.9	34.8	34.8	21.78196	13-14
15	1.486	22.236	262.98261	-102.4	-4.3	-92.7	78.5	4.28963	0.816	-90.0	72.7	37.7	35.5	34.9	17.17879	14-15
16	2.063	22.291	266.31489	-108.1	-4.7	-90.0	76.9	4.33138	0.805	-84.9	72.8	37.9	36.7	34.4	17.55893	15-16

FEB. 20, 1965 9 HR 55 MIN 39 SEC 467 MS

TAB NO 68

ATLAS PHOTO NO 68

POD SEQUENCE NO 497

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
PHOTO DATA										117.288	210.72688	0.783	18.078	1946.227	2.534	-45.914	73.913
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	1.535	23.045	265.23672	-101.3	-4.7	-92.8	78.7	4.33573	0.766	-90.0	73.5	34.0	40.0	39.4	0.	1- 2	
3	1.818	22.714	259.99252	-104.6	-4.7	-91.3	77.8	4.24460	0.786	-87.4	73.2	35.9	38.3	37.0	13.21670	2- 3	
4	1.832	23.462	274.46096	-103.3	-5.1	-91.3	78.1	4.48131	0.736	-87.1	74.0	32.2	42.7	41.5	22.66662	3- 4	
5	1.239	23.394	271.43175	-98.3	-4.7	-94.3	79.6	4.43135	0.746	-92.9	73.9	32.2	41.8	41.7	18.08330	4- 5	
6	1.256	22.658	257.30154	-99.1	-4.4	-94.1	79.3	4.20115	0.795	-92.6	73.2	35.9	37.4	37.2	22.30752	5- 6	
7	1.818	22.714	259.99252	-104.6	-4.7	-91.3	77.8	4.24460	0.786	-87.4	73.2	35.9	38.3	37.0	17.10680	6- 7	
8	2.091	22.397	255.62212	-108.1	-4.7	-90.0	76.9	4.15745	0.804	-84.9	72.9	37.9	36.8	34.5	12.63888	7- 8	
9	2.119	23.110	268.80754	-106.4	-5.1	-89.9	77.2	4.38223	0.756	-84.5	73.6	34.2	41.1	38.9	21.57443	8- 9	
10	2.151	23.913	285.15083	-105.1	-5.6	-89.6	77.5	4.63972	0.705	-83.9	74.4	30.5	45.4	43.4	24.33910	9-10	
11	1.533	23.834	281.13160	-100.3	-5.1	-92.8	79.0	4.58566	0.716	-90.0	74.3	30.2	44.4	44.0	18.87723	10-11	
12	0.930	23.763	278.66344	-95.4	-4.6	-95.9	80.6	4.53209	0.725	-96.1	74.2	30.5	43.8	43.8	18.39965	11-12	
13	0.964	22.987	263.09311	-96.0	-4.3	-95.6	80.2	4.28909	0.775	-95.5	73.5	34.2	39.3	39.3	23.52795	12-13	
14	0.995	22.297	250.50745	-96.6	-4.0	-95.4	79.9	4.07610	0.824	-95.1	72.8	37.9	34.9	34.9	20.93059	13-14	
15	1.537	22.345	252.40351	-102.4	-4.3	-92.7	78.4	4.11706	0.815	-90.0	72.9	37.7	35.6	35.0	16.48996	14-15	
16	2.091	22.397	255.62212	-108.1	-4.7	-90.0	76.9	4.15745	0.804	-84.9	72.9	37.9	36.8	34.5	16.85710	15-16	

RA-VIII CAMERA FB

35

FEB. 20, 1965 4 HR 55 MIN 44 SEC 587 MS TAB NO 69 ATLAS PHOTO NO 69 POD SEQUENCE NO 499

TRAJECTORY DATA				SEC TO IMPACT			ALT	LAT	LON	R	V	PTH	AZ			
				112.168			201.41011	0.857	18.334	1936.910	2.539	-45.750	73.918			
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.586	23.124	254.12790	-101.4	-4.8	-92.8	78.6	4.15414	0.765	-90.0	73.6	34.0	40.1	39.5	0.	1-2
3	1.858	22.806	249.09358	-104.6	-4.8	-91.3	77.8	4.06667	0.785	-87.4	73.3	35.9	38.4	37.1	12.66681	2-3
4	1.871	23.525	262.99605	-103.3	-5.2	-91.3	78.0	4.29412	0.735	-87.1	74.0	32.2	42.7	41.6	21.74331	3-4
5	1.302	23.459	260.06852	-98.3	-4.7	-94.3	79.5	4.24583	0.745	-92.9	74.0	32.2	41.9	41.8	17.33129	4-5
6	1.319	22.753	246.49267	-99.2	-4.4	-94.1	79.2	4.02466	0.724	-92.6	73.3	35.9	37.5	37.3	21.39623	5-6
7	1.858	22.806	249.09358	-104.6	-4.8	-91.3	77.8	4.06667	0.785	-87.4	73.3	35.9	38.4	37.1	16.39253	6-7
8	2.119	22.503	244.89270	-108.1	-4.7	-90.0	76.9	3.98293	0.803	-84.9	73.0	37.9	36.9	34.6	12.11350	7-8
9	2.145	23.187	257.56902	-106.5	-5.2	-89.8	77.1	4.19901	0.755	-84.5	73.7	34.2	41.1	39.0	20.69710	8-9
10	2.177	23.957	273.26476	-105.1	-5.6	-89.6	77.4	4.44632	0.704	-83.9	74.5	30.5	45.5	43.5	23.34650	9-10
11	1.584	23.881	269.39243	-100.4	-5.1	-92.8	78.9	4.39417	0.715	-90.0	74.4	30.2	44.5	44.0	18.09415	10-11
12	1.006	23.812	266.99652	-95.6	-4.7	-96.0	80.5	4.34232	0.724	-96.1	74.3	30.5	43.8	43.8	17.63450	11-12
13	1.039	23.068	252.04622	-96.1	-4.4	-95.7	80.1	4.10899	0.774	-95.5	73.6	34.2	39.4	39.4	22.56318	12-13
14	1.068	22.406	239.94944	-96.7	-4.1	-95.4	79.8	3.90431	0.822	-95.1	72.9	37.9	35.0	35.0	20.07451	13-14
15	1.588	22.452	241.79098	-102.5	-4.4	-92.7	78.3	3.94396	0.813	-90.0	73.0	37.7	35.7	35.1	15.79872	14-15
16	2.119	22.503	244.89270	-108.1	-4.7	-90.0	76.9	3.98293	0.803	-84.9	73.0	37.9	36.9	34.6	16.15244	15-16

FEB. 20, 1965 4 HR 55 MIN 49 SEC 707 MS TAB NO 70 ATLAS PHOTO NO 70 POD SEQUENCE NO 501

TRAJECTORY DATA								SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ	
								107.048	192.10182	0.932	18.593	1927.602	2.544	-45.585	73.922	
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.637	23.203	242.98058	-101.4	-4.8	-92.8	78.6	3.97191	0.764	-90.0	73.7	34.0	40.2	39.6	0.	1-2
3	1.897	22.899	238.15786	-104.6	-4.8	-91.3	77.7	3.88813	0.783	-87.4	73.4	35.9	38.5	37.2	12.11464	2-3
4	1.910	23.586	251.48846	-103.4	-5.2	-91.3	78.0	4.10622	0.734	-87.1	74.1	32.2	42.8	41.6	20.81428	3-4
5	1.366	23.523	248.66532	-98.4	-4.8	-94.3	79.5	4.05966	0.744	-92.9	74.0	32.2	42.0	41.8	16.57620	4-5
6	1.382	22.847	235.64939	-99.2	-4.4	-94.2	79.2	3.84762	0.793	-92.6	73.3	35.9	37.6	37.4	20.47959	5-6
7	1.897	22.899	238.15786	-104.6	-4.8	-91.3	77.7	3.88813	0.783	-87.4	73.4	35.9	38.5	37.2	15.67562	6-7
8	2.146	22.609	234.12835	-108.1	-4.7	-90.0	76.8	3.80784	0.802	-84.9	73.1	37.9	37.0	34.7	11.58594	7-8
9	2.172	23.263	246.28970	-106.5	-5.2	-89.8	77.1	4.01512	0.754	-84.5	73.8	34.2	41.2	39.1	19.81429	8-9
10	2.202	24.001	261.33223	-105.1	-5.6	-89.6	77.4	4.25216	0.703	-83.9	74.5	30.5	45.5	43.5	22.34773	9-10
11	1.636	23.927	257.60898	-100.5	-5.2	-92.8	78.9	4.20197	0.714	-90.0	74.4	30.2	44.5	44.1	17.30764	10-11
12	1.083	23.861	255.28845	-95.7	-4.8	-96.0	80.3	4.15188	0.724	-96.1	74.4	30.5	43.9	43.9	16.86621	11-12
13	1.114	23.148	240.96359	-96.2	-4.4	-95.7	80.0	3.92830	0.773	-95.5	73.6	34.2	39.5	39.5	21.59298	12-13
14	1.142	22.515	229.36103	-96.8	-4.1	-95.4	79.7	3.73202	0.821	-95.1	73.0	37.9	35.1	35.1	19.21354	13-14
15	1.639	22.560	231.14558	-102.6	-4.4	-92.7	78.3	3.77031	0.812	-90.0	73.1	37.7	35.9	35.2	15.10519	14-15
16	2.146	22.609	234.12835	-108.1	-4.7	-90.0	76.8	3.80784	0.802	-84.9	73.1	37.9	37.0	34.7	15.44524	15-16

RA-VIII CAMERA FB

36

FEB. 20, 1965 4 HR 55 MIN 54 SEC 827 MS TAB NO 71 ATLAS PHOTO NO 71 POD SEQUENCE NO 503

TRAJECTORY DATA								SEC TO IMPACT	ALT	LAT	LCN	R	V	PTH	AZ	
								101.928	182.80229	1.007	18.855	1918.302	2.549	-45.418	73.927	
PHOTO DATA																
PT	LAT	LUN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.688	23.281	231.79380	-101.5	-4.8	-92.8	78.5	3.78905	0.763	-90.0	73.8	34.0	40.2	39.7	0.	1-2
3	1.935	22.990	227.18451	-104.7	-4.8	-91.3	77.7	3.70897	0.782	-87.4	73.5	35.9	38.6	37.3	11.56014	2-3
4	1.948	23.647	239.93728	-103.4	-5.2	-91.3	77.9	3.91762	0.734	-87.1	74.2	32.2	42.9	41.7	19.87945	3-4
5	1.429	23.586	237.22109	-98.5	-4.8	-94.4	79.4	3.87282	0.744	-92.9	74.1	32.2	42.0	41.9	15.81797	4-5
6	1.444	22.940	224.77078	-99.3	-4.5	-94.2	79.1	3.66999	0.792	-92.6	73.4	35.9	37.7	37.5	19.55745	5-6
7	1.935	22.990	227.18451	-104.7	-4.8	-91.3	77.7	3.70897	0.782	-87.4	73.5	35.9	38.6	37.3	14.95602	6-7
8	2.174	22.714	223.32835	-108.1	-4.8	-90.0	76.8	3.63217	0.801	-84.9	73.2	37.9	37.1	34.9	11.05613	7-8
9	2.198	23.338	234.96872	-106.5	-5.2	-89.8	77.1	3.83055	0.753	-84.5	73.9	34.2	41.3	39.2	18.92586	8-9
10	2.227	24.043	249.35172	-105.1	-5.6	-89.6	77.4	4.05723	0.703	-83.9	74.6	30.5	45.6	43.6	21.34273	9-10
11	1.686	23.972	245.78022	-100.5	-5.2	-92.9	78.8	4.00902	0.714	-90.0	74.5	30.2	44.6	44.1	16.51766	10-11
12	1.159	23.908	243.53807	-95.8	-4.8	-96.0	80.2	3.96076	0.723	-96.1	74.4	30.5	43.9	43.9	16.09474	11-12
13	1.189	23.228	229.84419	-96.3	-4.5	-95.7	79.9	3.74702	0.773	-95.5	73.7	34.2	39.6	39.6	20.61721	12-13
14	1.216	22.623	218.74132	-96.9	-4.2	-95.5	79.6	3.55922	0.820	-95.1	73.1	37.9	35.2	35.2	18.34755	13-14
15	1.689	22.666	220.46650	-102.6	-4.5	-92.7	78.2	3.59612	0.811	-90.0	73.2	37.7	36.0	35.3	14.40931	14-15
16	2.174	22.714	223.32835	-108.1	-4.8	-90.0	76.8	3.63217	0.801	-84.9	73.2	37.9	37.1	34.9	14.73546	15-16

FEB. 20, 1965 4 HR 55 MIN 59 SEC 947 MS TAB NO 72 ATLAS PHOTO NO 72 POD SEQUENCE NO 505

TRAJECTORY DATA								SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ	
								96.808	173.51181	1.084	19.119	1909.012	2.554	-45.250	73.932	
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.738	23.358	220.56714	-101.5	-4.9	-92.8	78.5	3.60553	0.762	-90.0	73.9	34.0	40.3	39.7	0.	1-2
3	1.974	23.081	216.17301	-104.7	-4.8	-91.3	77.6	3.52920	0.781	-87.4	73.6	35.9	38.7	37.4	11.00329	2-3
4	1.986	23.707	228.34200	-103.5	-5.2	-91.3	77.9	3.72830	0.733	-87.1	74.2	32.2	42.9	41.8	18.93878	3-4
5	1.492	23.648	225.73542	-98.6	-4.9	-94.4	79.3	3.68530	0.743	-92.9	74.2	32.2	42.1	42.0	15.05658	4-5
6	1.507	23.033	213.85643	-99.4	-4.5	-94.2	79.0	3.49179	0.791	-92.7	73.5	35.9	37.8	37.6	18.62977	5-6
7	1.974	23.081	216.17301	-104.7	-4.8	-91.3	77.6	3.52920	0.781	-87.4	73.6	35.9	38.7	37.4	14.33368	6-7
8	2.201	22.818	212.49215	-108.1	-4.8	-90.0	76.8	3.45591	0.799	-85.0	73.3	37.9	37.2	35.0	10.52404	7-8
9	2.224	23.413	223.60557	-106.5	-5.2	-89.8	77.1	3.64529	0.752	-84.5	73.9	34.2	41.4	39.2	18.03179	8-9
10	2.252	24.084	237.32290	-105.2	-5.7	-89.6	77.3	3.86150	0.702	-83.9	74.6	30.5	45.6	43.6	20.33142	9-10
11	1.737	24.016	233.90570	-100.6	-5.3	-92.9	78.7	3.81533	0.713	-90.0	74.5	30.2	44.6	44.1	15.72416	10-11
12	1.235	23.955	231.74504	-95.9	-4.9	-96.1	80.1	3.76895	0.722	-96.1	74.5	30.5	44.6	44.0	15.32004	11-12
13	1.264	23.307	218.68762	-96.4	-4.5	-95.8	79.5	3.56513	0.772	-95.5	73.8	34.2	39.6	39.6	19.63588	12-13
14	1.289	22.730	208.08987	-97.1	-4.2	-95.5	79.8	3.38590	0.819	-91.7	73.2	37.9	35.4	35.3	17.47654	13-14
15	1.740	22.772	209.75327	-102.7	-4.5	-92.7	78.2	3.42137	0.810	-90.0	74.0	37.7	36.1	35.4	13.71105	14-15
16	2.201	22.818	212.49215	-108.1	-4.8	-90.0	76.8	3.45591	0.799	-85.0	73.3	37.9	37.2	35.0	14.02306	15-16

RA-VIII CAMERA FB

37

FEB. 20, 1965 7 HR 56 MIN 5 SEC 67 MS

TAB NO 73

ATLAS PHOTO NO 73

POD SEQUENCE NO 507

TRAJECTORY DATA					SEC TO IMPACT			ALT	LAT	LCN	R	V	PTH	AZ		
PHOTO DATA					91.688			164.23085	1.160	19.386	1899.731	2.559	-45.080	73.938		
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.789	23.434	209.30045	-101.6	-4.9	-92.8	78.4	3.42136	0.761	-90.0	74.0	34.0	40.4	39.8	0.	1-2
3	2.013	23.172	205.12322	-104.7	-4.9	-91.3	77.6	3.34879	0.780	-87.4	73.7	35.9	38.8	37.5	10.44409	2-3
4	2.024	23.766	216.70247	-103.5	-5.3	-91.3	77.8	3.53825	0.732	-87.1	74.3	32.2	43.0	41.8	17.99225	3-4
5	1.555	23.710	214.20827	-98.7	-4.9	-94.4	79.2	3.49710	0.742	-92.9	74.2	32.2	42.2	42.0	14.29198	4-5
6	1.569	23.126	202.90618	-99.5	-4.6	-94.2	78.9	3.31299	0.790	-92.7	73.6	35.9	37.9	37.7	17.69661	5-6
7	2.013	23.172	205.12322	-104.7	-4.9	-91.3	77.6	3.34879	0.780	-87.4	73.7	35.9	38.8	37.5	13.50859	6-7
8	2.227	22.921	201.61953	-108.1	-4.8	-90.0	76.8	3.27906	0.798	-85.0	73.5	37.9	37.3	35.1	9.98971	7-8
9	2.250	23.487	212.20004	-106.5	-5.2	-89.8	77.0	3.45935	0.751	-84.5	74.0	34.2	41.5	39.3	17.13209	8-9
10	2.276	24.124	225.24569	-105.2	-5.7	-89.6	77.3	3.66499	0.702	-83.9	74.7	30.5	45.7	43.6	19.31392	9-10
11	1.788	24.060	221.98538	-100.7	-5.3	-92.9	78.7	3.62089	0.712	-90.0	74.6	30.2	44.7	44.2	14.92712	10-11
12	1.311	24.001	219.90937	-96.0	-4.9	-96.1	80.0	3.57644	0.722	-96.1	74.5	30.5	44.0	44.0	14.54208	11-12
13	1.338	23.385	207.49383	-96.5	-4.6	-95.8	79.7	3.38264	0.771	-95.5	73.9	34.2	39.7	39.7	18.64901	12-13
14	1.363	22.838	197.40662	-97.2	-4.2	-95.5	79.4	3.21207	0.818	-95.1	73.3	37.9	35.5	35.4	16.60052	13-14
15	1.790	22.878	199.00573	-102.7	-4.5	-92.7	78.1	3.24606	0.809	-90.0	73.4	37.7	36.2	35.5	13.01038	14-15
16	2.227	22.921	201.61953	-108.1	-4.8	-90.0	76.8	3.27906	0.798	-85.0	73.5	37.9	37.3	35.1	13.30800	15-16

FEB. 20, 1965 9 HR 56 MIN 10 SEC 187 MS

TAB NO 74

ATLAS PHOTO NO 74

POD SEQUENCE NO 509

TRAJECTORY DATA										SEC TO IMPACT		ALT	LAT	LCN	R	V	PTH	AZ
PHOTO DATA										86.568		154.95949	1.238	19.656	1890.459	2.564	-44.909	73.944
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT		
2	1.839	23.509	197.99133	-101.7	-4.9	-92.8	78.3	3.23649	0.761	-90.0	74.0	34.0	40.5	39.9	0.	1-2		
3	2.051	23.261	194.03221	-104.8	-4.9	-91.3	77.5	3.16772	0.779	-87.4	73.8	35.9	38.9	37.6	9.88265	2-3		
4	2.061	23.824	205.01564	-103.5	-5.3	-91.3	77.8	3.34743	0.731	-87.1	74.4	32.2	43.1	41.9	17.03964	3-4		
5	1.618	23.771	202.63777	-98.8	-5.0	-94.4	79.1	3.30820	0.741	-92.9	74.3	32.2	42.2	42.1	13.52380	4-5		
6	1.631	23.217	191.91827	-99.6	-4.6	-94.2	78.8	3.13359	0.789	-92.7	73.7	35.9	38.0	37.8	16.75783	5-6		
7	2.051	23.261	194.03221	-104.8	-4.9	-91.3	77.5	3.16772	0.779	-87.4	73.8	35.9	38.9	37.6	12.78040	6-7		
8	2.254	23.024	190.70712	-108.0	-4.8	-89.9	76.8	3.10157	0.797	-85.0	73.6	37.9	37.4	35.2	9.45313	7-8		
9	2.275	23.560	200.74850	-106.5	-5.3	-89.8	77.0	3.27265	0.750	-84.5	74.1	34.2	41.5	39.4	16.22640	8-9		
10	2.300	24.163	213.11620	-105.2	-5.7	-89.6	77.3	3.46763	0.701	-83.9	74.6	30.2	45.7	43.7	18.28984	9-10		
11	1.838	24.102	210.01674	-100.7	-5.3	-92.9	78.6	3.42566	0.712	-90.0	74.6	30.2	44.7	44.2	14.12604	10-11		
12	1.387	24.046	208.02989	-96.1	-5.0	-96.1	79.9	3.38323	0.721	-96.1	74.5	30.5	44.1	44.1	13.76055	11-12		
13	1.413	23.463	196.26158	-96.7	-4.6	-95.8	79.6	3.19952	0.770	-95.6	74.0	34.2	39.8	39.8	17.65664	12-13		
14	1.436	22.944	186.69030	-97.3	-4.3	-95.5	79.4	3.03770	0.817	-95.1	73.5	37.9	35.6	35.6	15.71937	13-14		
15	1.840	22.983	188.22160	-102.8	-4.6	-92.8	78.1	3.07016	0.808	-90.0	73.5	37.7	36.3	35.6	12.30706	14-15		
16	2.254	23.024	190.70712	-108.0	-4.8	-89.9	76.8	3.10157	0.797	-85.0	73.6	37.9	37.4	35.2	12.58989	15-16		

RA-VIII CAMERA FB

38

FEB. 20, 1965 9 HR 56 MIN 15 SEC 307 MS

TAB NO 75

ATLAS PHOTO NO 75

POD SEQUENCE NO 511

TRAJECTORY DATA								SEC TO IMPACT		ALT	LAT	LCN	R	V	PTH	AZ
PHOTO DATA								81.448		145.69795	1.316	19.928	1881.198	2.569	-44.736	73.951
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.889	23.584	186.64003	-101.7	-5.0	-92.8	78.3	3.05094	0.760	-90.0	74.1	34.0	40.6	40.0	0.	1-2
3	2.088	23.350	182.90055	-104.8	-4.9	-91.3	77.5	2.98598	0.778	-87.4	73.9	35.9	39.0	37.7	9.31884	2-3
4	2.099	23.881	193.28215	-103.6	-5.3	-91.3	77.8	3.15585	0.731	-87.1	74.4	32.2	43.1	41.9	16.08100	3-4
5	1.681	23.830	191.02384	-98.9	-5.0	-94.4	79.0	3.11859	0.740	-92.9	74.3	32.2	42.3	42.1	12.75218	4-5
6	1.693	23.308	180.89261	-99.7	-4.7	-94.3	78.8	2.95356	0.788	-92.7	73.8	35.9	38.1	37.9	15.81340	5-6
7	2.088	23.350	182.90055	-104.8	-4.9	-91.3	77.5	2.98598	0.778	-87.4	73.9	35.9	39.0	37.7	12.04922	6-7
8	2.280	23.126	179.75584	-108.0	-4.9	-89.9	76.7	2.92345	0.796	-85.0	73.7	37.9	37.6	35.3	8.91424	7-8
9	2.300	23.632	189.25202	-106.5	-5.3	-89.8	77.0	3.08523	0.749	-84.5	74.2	34.2	41.6	39.5	15.31485	8-9
10	2.324	24.202	200.93561	-105.2	-5.7	-89.6	77.3	3.26944	0.701	-83.9	74.7	30.2	45.8	43.7	17.25931	9-10
11	1.888	24.143	198.00011	-100.8	-5.4	-92.9	78.5	3.22966	0.711	-90.0	74.6	30.2	44.8	44.3	13.32114	10-11
12	1.463	24.090	196.10605	-96.2	-5.0	-96.2	79.8	3.18929	0.721	-96.1	74.6	30.5	44.1	44.1	12.97556	11-12
13	1.487	23.540	184.99042	-96.8	-4.7	-95.8	79.5	3.01577	0.769	-95.6	74.0	34.2	39.9	39.9	16.65860	12-13
14	1.509	23.051	175.94052	-97.4	-4.3	-95.6	79.3	2.86278	0.816	-95.1	73.6	37.9	35.7	35.7	14.83314	13-14
15	1.890	23.087	177.40109	-102.8	-4.6	-92.8	78.0	2.89366	0.806	-90.0	73.6	37.7	36.4	35.7	11.60116	14-15
16	2.280	23.126	179.75584	-108.0	-4.9	-89.9	76.7	2.92345	0.796	-85.0	73.7	37.9	37.6	35.3	11.86890	15-16

FEB. 20, 1965 9 HR 56 MIN 20 SEC 427 MS

TAB NO 76

ATLAS PHOTO NO 76

POD SEQUENCE NO 513

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LCN	R	V	PTH	AZ			
PHOTO DATA					76.328		136.44679	1.395	20.203	1871.947	2.574	-44.561	73.958			
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.939	23.658	175.24691	-101.8	-5.0	-92.9	78.2	2.86470	0.759	-90.0	74.2	34.0	40.6	40.0	0.	1-2
3	2.126	23.438	171.72890	-104.8	-5.0	-91.3	77.5	2.80360	0.777	-87.4	74.0	35.9	39.1	37.8	8.75257	2-3
4	2.136	23.937	181.50271	-103.6	-5.4	-91.3	77.7	2.96352	0.730	-87.1	74.5	32.2	43.2	42.0	15.11640	3-4
5	1.743	23.889	179.36648	-99.0	-5.1	-94.5	79.0	2.92828	0.740	-92.9	74.4	32.2	42.4	42.2	11.97727	4-5
6	1.754	23.398	169.82921	-99.8	-4.7	-94.3	78.7	2.77292	0.787	-92.7	73.9	35.9	38.2	38.0	14.86333	5-6
7	2.126	23.438	171.72890	-104.8	-5.0	-91.3	77.5	2.80360	0.777	-87.4	74.0	35.9	39.1	37.8	11.31519	6-7
8	2.306	23.228	168.76655	-108.0	-4.9	-89.9	76.7	2.74471	0.795	-85.0	73.8	37.9	37.7	35.4	8.37298	7-8
9	2.325	23.703	177.71149	-106.5	-5.3	-89.8	77.0	2.89709	0.748	-84.5	74.2	34.2	41.7	39.5	14.39750	8-9
10	2.347	24.239	188.70496	-105.3	-5.7	-89.6	77.2	3.07043	0.700	-83.9	74.8	30.5	45.8	43.8	16.22249	9-10
11	1.938	24.183	185.93586	-100.9	-5.4	-92.9	78.5	3.03287	0.711	-90.0	74.7	30.2	44.8	44.3	12.51262	10-11
12	1.539	24.133	184.13761	-96.3	-5.1	-96.2	79.7	3.09464	0.720	-96.2	74.6	30.5	44.2	44.2	12.18719	11-12
13	1.561	23.616	173.68009	-96.9	-4.7	-95.9	79.4	2.83138	0.768	-95.6	74.1	34.2	40.0	40.0	15.65496	12-13
14	1.582	23.156	165.15707	-97.5	-4.4	-95.6	79.2	2.68732	0.814	-95.1	73.7	37.9	35.8	35.8	13.94165	13-14
15	1.940	23.191	166.54454	-102.9	-4.6	-92.8	78.0	2.71657	0.805	-90.0	73.7	37.7	36.5	35.8	10.89273	14-15
16	2.306	23.228	168.76655	-108.0	-4.9	-89.9	76.7	2.74471	0.795	-85.0	73.8	37.9	37.7	35.4	11.14517	15-16

RA-VIII CAMERA FB

39

FEB. 20, 1965 9 HR 56 MIN 25 SEC 547 MS TAB NO 77 ATLAS PHOTO NO 77 POD SEQUENCE NO 515

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LCN	R	V	PTH	AZ					
				71.208	127.20641	1.475	20.480	1862.706	2.579	-44.385	73.965					
PHOTO DATA																
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.988	23.731	163.81281	-101.8	-5.1	-92.9	78.2	2.677779	0.758	-90.0	74.3	34.0	40.7	40.1	0.	1-2
3	2.164	23.525	160.51858	-104.8	-5.0	-91.3	77.4	2.62058	0.776	-87.4	74.1	35.9	39.2	37.9	8.18369	2-3
4	2.173	23.992	169.67874	-103.6	-5.4	-91.3	77.7	2.77046	0.729	-87.1	74.5	32.2	43.3	42.1	14.14596	3-4
5	1.806	23.947	167.66614	-99.0	-5.1	-94.5	78.9	2.73726	0.739	-92.9	74.5	32.2	42.4	42.3	11.19928	4-5
6	1.816	23.488	158.72851	-99.9	-4.7	-94.3	78.6	2.59167	0.786	-92.7	74.0	35.9	38.3	38.1	13.50703	5-6
7	2.164	23.525	160.51858	-104.8	-5.0	-91.3	77.4	2.62058	0.776	-87.4	74.1	35.9	39.2	37.9	10.57850	6-7
8	2.332	23.329	157.74107	-108.0	-4.9	-89.9	76.7	2.56539	0.794	-85.0	73.9	37.9	37.8	35.5	7.82723	7-8
9	2.350	23.773	166.12891	-106.5	-5.3	-89.8	77.0	2.70826	0.747	-84.5	74.3	34.2	41.8	39.6	13.47454	8-9
10	2.371	24.275	176.42649	-105.3	-5.8	-89.6	77.2	2.87065	0.700	-83.9	74.8	30.5	45.8	43.8	15.17962	9-10
11	1.988	24.223	173.82494	-100.9	-5.4	-93.0	78.4	2.83532	0.710	-90.0	74.7	30.2	44.9	44.4	11.70085	10-11
12	1.615	24.175	172.12438	-96.4	-5.2	-96.2	79.6	2.79925	0.720	-96.2	74.7	30.5	44.2	44.2	11.39563	11-12
13	1.636	23.691	162.33051	-97.0	-4.8	-95.9	79.3	2.64635	0.767	-95.6	74.2	34.2	40.0	40.0	14.64558	12-13
14	1.655	23.261	154.33994	-97.6	-4.4	-95.6	79.1	2.51131	0.813	-95.1	73.8	37.9	35.9	35.9	13.04496	13-14
15	1.989	23.294	155.65281	-102.9	-4.7	-92.8	77.9	2.53891	0.804	-90.0	73.8	37.7	36.6	35.9	10.18190	14-15
16	2.332	23.329	157.74107	-108.0	-4.9	-89.9	76.7	2.56539	0.794	-85.0	73.9	37.9	37.8	35.5	10.41897	15-16

FEB. 20, 1965 9 HR 56 MIN 30 SEC 567 MS TAB NO 78 ATLAS PHOTO NO 78 POD SEQUENCE NO 517

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LCN	R	V	PTH	AZ					
				66.089	117.97705	1.556	20.761	1853.477	2.584	-44.208	73.973					
PHOTO DATA																
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.038	23.803	152.33595	-101.9	-5.1	-92.9	78.1	2.49018	0.757	-90.0	74.3	34.0	40.8	40.2	0.	1-2
3	2.201	23.612	149.26735	-104.9	-5.0	-91.3	77.4	2.43689	0.775	-87.4	74.1	35.9	39.3	37.9	7.61230	2-3
4	2.210	24.047	157.80795	-103.7	-5.4	-91.3	77.6	2.57664	0.728	-87.1	74.6	32.2	43.3	42.1	13.16956	3-4
5	1.868	24.004	155.92135	-99.1	-5.2	-96.5	78.8	2.54551	0.738	-92.9	74.5	32.2	42.5	42.3	10.41797	4-5
6	1.878	23.577	147.58907	-99.9	-4.8	-94.3	78.5	2.40979	0.785	-92.7	74.1	35.9	38.4	38.1	12.94623	5-6
7	2.201	23.612	149.26735	-104.9	-5.0	-91.3	77.4	2.43689	0.775	-87.4	74.1	35.9	39.3	37.9	9.83890	6-7
8	2.357	23.429	146.67677	-108.0	-4.9	-89.9	76.7	2.38543	0.793	-85.0	74.0	37.9	37.9	35.6	7.28304	7-8
9	2.374	23.843	154.50150	-106.6	-5.4	-89.8	76.9	2.51870	0.747	-84.5	74.4	34.2	41.8	39.7	12.54575	8-9
10	2.394	24.309	164.09724	-105.3	-5.8	-89.6	77.2	2.67004	0.699	-83.9	74.9	30.5	45.9	43.8	14.13045	9-10
11	2.038	24.261	161.66544	-101.0	-5.5	-93.0	78.3	2.63698	0.709	-90.0	74.8	30.2	44.9	44.4	10.88546	10-11
12	1.691	24.216	160.06542	-96.5	-5.2	-96.3	79.5	2.60312	0.719	-96.2	74.7	30.5	44.3	44.3	10.60064	11-12
13	1.710	23.766	150.94066	-97.1	-4.9	-95.9	79.2	2.46066	0.766	-95.6	74.3	34.2	40.1	40.1	13.63050	12-13
14	1.728	23.365	143.48813	-97.8	-4.5	-95.6	79.0	2.33474	0.812	-95.1	73.9	37.9	36.0	36.0	12.14292	13-14
15	2.039	23.396	144.72414	-103.0	-4.7	-92.8	77.8	2.36065	0.803	-90.0	73.9	37.7	36.8	36.0	9.46850	14-15
16	2.357	23.429	146.67677	-108.0	-4.9	-89.9	76.7	2.38543	0.793	-85.0	74.0	37.9	37.9	35.6	9.68999	15-16

RA-VIII CAMERA FB

40

FEB. 20, 1965 9 HR 56 MIN 35 SEC 787 MS TAB NO 79 ATLAS PHOTO NO 79 POD SEQUENCE NO 519

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LCN	R	V	PTH	AZ					
				60.969	108.75896	1.637	21.044	1844.259	2.589	-44.028	73.981					
PHOTO DATA																
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.088	23.875	140.81497	-102.0	-5.1	-92.9	78.0	2.30185	0.756	-90.0	74.4	34.0	40.9	40.3	0.	1-2
3	2.239	23.697	137.97377	-104.9	-5.1	-91.3	77.3	2.25251	0.774	-87.4	74.2	35.9	39.4	38.0	7.03833	2-3
4	2.246	24.100	145.88873	-103.7	-5.5	-91.3	77.6	2.38202	0.728	-87.1	74.6	32.2	43.4	42.2	12.18698	3-4
5	1.931	24.060	144.13098	-99.2	-5.2	-94.5	78.7	2.35302	0.737	-93.0	74.6	32.2	42.5	42.4	9.63314	4-5
6	1.940	23.665	136.40982	-100.0	-4.8	-94.3	78.5	2.22726	0.784	-92.7	74.2	35.9	38.5	38.2	11.97896	5-6
7	2.239	23.697	137.97377	-104.9	-5.1	-91.3	77.3	2.25251	0.774	-87.4	74.2	35.9	39.4	38.0	9.09625	6-7
8	2.383	23.528	135.57209	-108.0	-5.0	-89.9	76.7	2.20482	0.792	-85.0	74.1	37.9	38.0	35.7	6.73438	7-8
9	2.399	23.912	142.82755	-106.6	-5.4	-89.8	76.9	2.32838	0.746	-84.5	74.5	34.2	41.9	39.8	11.61094	8-9
10	2.417	24.343	151.71539	-105.3	-5.8	-89.6	77.1	2.46857	0.699	-83.9	74.9	30.5	45.9	43.9	13.07481	9-10
11	2.087	24.298	149.45602	-101.1	-5.5	-93.0	78.3	2.43783	0.709	-90.0	74.8	30.2	45.0	44.4	10.66623	10-11
12	1.767	24.256	147.95983	-96.7	-5.3	-96.3	79.4	2.40624	0.718	-96.2	74.8	30.5	44.3	44.3	9.80208	11-12
13	1.785	23.840	139.50965	-97.2	-4.9	-96.0	79.1	2.27430	0.765	-95.6	74.4	34.2	40.2	40.2	12.60963	12-13
14	1.801	23.469	132.60072	-97.9	-4.5	-95.7	78.9	2.15758	0.811	-95.1	74.0	37.9	36.1	36.1	11.23556	13-14
15	2.089	23.498	133.75723	-103.1	-4.7	-92.8	77.8	2.18176	0.802	-90.0	74.0	37.7	36.9	36.1	8.75239	14-15
16	2.383	23.528	135.57209	-108.0	-5.0	-89.9	76.7	2.20482	0.792	-85.0	74.1	37.9	38.0	35.7	8.95808	15-16

FEB. 20, 1965 9 HR 56 MIN 40 SEC 907 MS TAB NO 80 ATLAS PHOTO NO 80 POD SEQUENCE NO 521

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LCN	R	V	PTH	AZ					
				55.849	99.55252	1.719	21.330	1835.053	2.594	-43.247	73.990					
PHOTO DATA																
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.137	23.945	129.25083	-102.0	-5.2	-92.9	78.0	2.11282	0.755	-90.0	74.5	34.0	41.0	40.3	0.	1-2
3	2.275	23.782	126.63783	-104.9	-5.1	-91.3	77.3	2.06744	0.773	-87.4	74.3	35.9	39.4	38.1	6.46234	2-3
4	2.283	24.152	133.92167	-103.8	-5.5	-91.3	77.5	2.18663	0.727	-87.1	74.7	32.2	43.4	42.2	11.19861	3-4
5	1.993	24.116	132.29710	-99.3	-5.3	-94.6	78.6	2.15983	0.737	-93.0	74.6	32.2	42.6	42.4	8.84460	4-5
6	2.001	23.752	125.19209	-100.1	-4.9	-94.3	78.4	2.04410	0.783	-92.7	74.3	35.9	38.6	38.3	11.00645	5-6
7	2.275	23.782	126.63783	-104.9	-5.1	-91.3	77.3	2.06744	0.773	-87.4	74.3	35.9	39.4	38.1	8.35033	6-7
8	2.408	23.627	124.42612	-108.0	-5.0	-89.9	76.7	2.02355	0.790	-85.0	74.2	37.9	38.1	35.8	6.18356	7-8
9	2.422	23.977	131.10659	-106.6	-5.4	-89.8	76.9	2.13730	0.745	-84.5	74.5	34.2	42.0	39.8	10.67033	8-9
10	2.439	24.376	139.28104	-105.3	-5.8	-89.6	77.1									

RA-VIII CAMERA FB

41

FEB. 20, 1965 9 HR 56 MIN 46 SEC 27 MS

TAB NO 81

ATLAS PHOTO NO 81

POD SEQUENCE NO 523

TRAJECTORY DATA					SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
PHOTO DATA					50.729	90.35822	1.802	21.619	1825.858	2.599	-43.665	73.999				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.186	24.015	117.64156	-102.1	-5.2	-92.9	77.9	1.92304	0.754	-90.0	74.6	34.0	41.0	40.4	0.	1-2
3	2.312	23.867	115.25843	-104.9	-5.1	-91.3	77.3	1.88166	0.772	-87.4	74.4	35.9	39.5	38.2	5.88374	2-3
4	2.319	24.204	121.90514	-103.8	-5.5	-91.3	77.5	1.99043	0.726	-87.1	74.7	32.2	43.5	42.3	10.20406	3-4
5	2.055	24.170	120.41664	-99.4	-5.3	-94.6	78.6	1.96587	0.736	-93.0	74.7	32.2	42.7	42.5	8.05246	4-5
6	2.063	23.839	113.93353	-100.2	-4.9	-94.4	78.3	1.86027	0.782	-92.7	74.4	35.9	38.7	38.4	10.02807	5-6
7	2.312	23.867	115.25843	-104.9	-5.1	-91.3	77.3	1.88166	0.772	-87.4	74.4	35.9	39.5	38.2	7.60127	6-7
8	2.433	23.725	113.23863	-108.0	-5.0	-89.8	76.7	1.84159	0.789	-85.0	74.3	37.9	38.2	35.9	5.63021	7-8
9	2.446	24.046	119.33799	-106.6	-5.4	-89.8	76.9	1.94545	0.744	-84.5	74.6	34.2	42.1	39.9	9.72366	8-9
10	2.461	24.407	126.79304	-105.4	-5.8	-89.6	77.1	2.06306	0.698	-83.9	75.0	30.4	46.0	43.9	10.94486	9-10
11	2.186	24.369	124.88973	-101.2	-5.6	-93.0	78.1	2.03712	0.708	-90.0	74.9	30.2	45.1	44.5	8.41555	10-11
12	1.918	24.333	123.61426	-96.9	-5.4	-96.4	79.2	2.01030	0.717	-96.2	74.9	30.5	44.4	44.4	8.19397	11-12
13	1.933	23.985	116.52786	-97.4	-5.0	-96.0	79.0	1.89964	0.764	-95.6	74.5	34.2	40.4	40.3	10.55203	12-13
14	1.947	23.675	110.72156	-98.1	-4.6	-95.7	78.8	1.80158	0.809	-95.1	74.2	37.9	36.3	36.3	9.40561	13-14
15	2.187	23.699	111.70862	-103.1	-4.8	-92.8	77.7	1.82212	0.799	-90.0	74.2	37.7	37.1	36.4	7.31178	14-15
16	2.433	23.725	113.23863	-108.0	-5.0	-89.8	76.7	1.84159	0.789	-85.0	74.3	37.9	38.2	35.9	7.48479	15-16

FEB. 20, 1965 9 HR 56 MIN 51 SEC 147 MS

TAB NO 82

ATLAS PHOTO NO 82

POD SEQUENCE NO 525

TRAJECTORY DATA					SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
PHOTO DATA					45.609	81.17635	1.886	21.911	1816.676	2.604	-43.480	74.009				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.235	24.083	105.98583	-102.1	-5.2	-92.9	77.9	1.73251	0.753	-90.0	74.6	34.0	41.1	40.5	0.	1-2
3	2.349	23.950	103.83454	-105.0	-5.1	-91.3	77.3	1.69516	0.771	-87.4	74.5	35.9	39.6	38.3	5.30243	2-3
4	2.355	24.254	109.83793	-103.8	-5.5	-91.3	77.5	1.79340	0.725	-87.1	74.8	32.2	43.6	42.3	9.20314	3-4
5	2.117	24.224	108.48807	-99.5	-5.3	-94.6	78.5	1.77113	0.735	-93.0	74.8	32.2	42.7	42.6	7.25670	4-5
6	2.124	23.925	102.63279	-100.3	-4.9	-94.4	78.3	1.67576	0.781	-92.7	74.5	35.9	38.8	38.5	9.04362	5-6
7	2.349	23.950	103.83454	-105.0	-5.1	-91.3	77.3	1.69516	0.771	-87.4	74.5	35.9	39.6	38.3	6.84903	6-7
8	2.457	23.822	102.00883	-108.0	-5.0	-89.8	76.6	1.65896	0.788	-85.0	74.4	37.9	38.3	36.0	5.07423	7-8
9	2.469	24.112	107.52077	-106.6	-5.4	-89.7	76.9	1.75280	0.743	-84.5	74.7	34.2	42.1	40.0	8.77076	8-9
10	2.483	24.438	114.25032	-105.4	-5.8	-89.6	77.1	1.85897	0.697	-83.9	75.0	30.4	46.0	44.0	9.87003	9-10
11	2.235	24.403	112.52874	-101.2	-5.6	-93.0	78.1	1.83549	0.707	-90.0	74.9	30.2	45.1	44.6	7.58434	10-11
12	1.994	24.371	111.36831	-97.0	-5.4	-96.4	79.1	1.81114	0.717	-96.2	74.9	30.5	44.5	44.4	7.38435	11-12
13	2.007	24.057	104.97215	-97.5	-5.0	-96.0	78.9	1.71126	0.763	-95.6	74.6	34.2	40.4	40.4	9.51430	12-13
14	2.020	23.777	99.72577	-98.2	-4.7	-95.7	78.7	1.62266	0.868	-95.1	74.3	37.9	36.5	36.5	8.48228	13-14
15	2.236	23.799	100.62432	-103.2	-4.8	-92.8	77.7	1.64132	0.798	-90.0	74.3	37.7	37.2	36.5	6.58725	14-15
16	2.457	23.822	102.00883	-108.0	-5.0	-89.8	76.6	1.65896	0.788	-85.0	74.4	37.9	38.3	36.0	6.74360	15-16

RA-VIII CAMERA FB

42

FEB. 20, 1965 9 HR 56 MIN 56 SEC 267 MS

TAB NO 83

ATLAS PHOTO NO 83

POD SEQUENCE NO 527

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA					40.489	72.00755	1.970	22.206	1807.508	2.610	-43.294	74.020				
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.285	24.151	94.28302	-102.2	-5.3	-92.9	77.8	1.54121	0.752	-90.0	74.7	34.0	41.2	40.6	0.	1-2
3	2.385	24.032	92.36601	-105.0	-5.1	-91.3	77.2	1.50793	0.770	-87.4	74.6	35.9	39.7	38.4	4.71820	2-3
4	2.391	24.303	97.71969	-103.9	-5.6	-91.3	77.4	1.59553	0.725	-87.1	74.8	32.2	43.6	42.4	8.19569	3-4
5	2.179	24.276	96.51028	-99.5	-5.4	-94.6	78.4	1.57558	0.735	-93.0	74.8	32.2	42.8	42.6	6.45739	4-5
6	2.185	24.010	91.28905	-100.3	-5.0	-94.4	78.2	1.49054	0.780	-92.7	74.5	35.9	38.8	38.6	8.05286	5-6
7	2.385	24.032	92.36601	-105.0	-5.1	-91.3	77.2	1.50793	0.770	-87.4	74.6	35.9	39.7	38.4	6.09370	6-7
8	2.482	23.919	90.73695	-108.0	-5.0	-89.8	76.6	1.47564	0.787	-85.0	74.5	37.9	38.4	36.1	4.51547	7-8
9	2.493	24.177	95.65506	-106.6	-5.4	-89.7	76.8	1.55936	0.742	-84.5	74.7	34.2	42.2	40.0	7.81156	8-9
10	2.505	24.467	101.65285	-105.4	-5.9	-89.6	77.1	1.65400	0.697	-83.9	75.0	30.4	46.1	44.0	8.78847	9-10
11	2.284	24.436	100.11447	-101.3	-5.7	-93.0	78.0	1.63300	0.707	-90.0	75.0	30.2	45.1	44.6	6.74937	10-11
12	2.069	24.407	99.07136	-97.1	-5.5	-96.4	79.0	1.61115	0.716	-96.2	74.9	30.5	44.5	44.5	6.57105	11-12
13	2.082	24.127	93.37141	-97.6	-5.1	-96.1	78.8	1.52214	0.762	-95.6	74.7	34.2	40.5	40.5	8.47025	12-13
14	2.092	23.878	88.69101	-98.3	-4.7	-95.8	78.6	1.44311	0.807	-95.1	74.4	37.9	36.6	36.5	7.55306	13-14
15	2.285	23.898	89.49926	-103.2	-4.9	-92.8	77.6	1.45985	0.797	-90.0	74.4	37.7	37.3	36.6	5.85990	14-15
16	2.482	23.919	90.73695	-108.0	-5.0	-89.8	76.6	1.47564	0.787	-85.0	74.5	37.9	38.4	36.1	5.99951	15-16

FEB. 20, 1965 9 HR 57 MIN 1 SEC 367 MS

TAB NO 84

ATLAS PHOTO NO 84

POD SEQUENCE NO 529

TRAJECTORY DATA						SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ			
PHOTO DATA						35.369	62.85173	2.055	22.504	1798.352	2.615	-43.106	74.031			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.333	24.218	82.53220	-102.2	-5.3	-92.9	77.8	1.34912	0.752	-90.0	74.8	34.0	41.3	40.6	0.	1-2
3	2.422	24.114	80.85132	-105.0	-5.2	-91.3	77.2	1.31994	0.769	-87.4	74.7	35.9	39.8	38.5	4.13122	2-3
4	2.427	24.351	85.54917	-103.9	-5.6	-91.3	77.4	1.39682	0.724	-87.1	74.9	32.2	43.7	42.4	7.18183	3-4
5	2.241	24.327	84.48291	-99.6	-5.4	-94.6	78.3	1.37923	0.734	-93.0	74.9	32.2	42.9	42.7	5.65431	4-5
6	2.247	24.094	79.90163	-100.4	-5.0	-94.4	78.1	1.30461	0.779	-92.7	74.6	35.9	38.9	38.7	7.05598	5-6
7	2.422	24.114	80.85132	-105.0	-5.2	-91.3	77.2	1.31994	0.769	-87.4	74.7	35.9	39.8	38.5	5.33505	6-7
8	2.506	24.014	79.42108	-108.0	-5.0	-89.6	76.6	1.29160	0.786	-85.0	74.6	37.9	38.5	36.2	3.95400	7-8
9	2.516	24.240	83.73907	-106.6	-5.5	-89.7	76.8	1.36510	0.742	-84.5	74.8	34.2	42.3	40.1	6.84603	8-9
10	2.527	24.494	88.99896	-105.4	-5.9	-89.6	77.0	1.44811	0.696	-83.9	75.0	30.4	46.1	44.0	7.70021	9-10
11	2.333	24.467	87.64629	-101.3	-5.7	-93.1	78.0	1.42963	0.706	-90.0	75.0	30.2	45.2	44.6	5.91034	10-11
12	2.145	24.461	86.72364	-97.2	-5.5	-96.4	78.9	1.41034	0.716	-96.2	75.0	30.5	44.5	44.5	5.75390	11-12
13	2.156	24.197	81.72551	-97.7	-5.1	-96.1	78.7	1.33228	0.761	-95.6	74.7	34.2	40.6	40.6	7.42014	12-13
14	2.165	23.978	77.61691	-98.4	-4.8	-95.8	78.5	1.26292	0.805	-95.1	74.5	37.9	36.7	36.6	6.61811	13-14
15	2.334	23.996	78.33228	-103.3	-4.9	-92.8	77.6	1.27770	0.796	-90.0	74.5	37.7	37.4	36.7	5.12960	14-15
16	2.506	24.014	79.42108	-108.0	-5.0	-89.8	76.6	1.29160	0.786	-85.0	74.6	37.9	38.5	36.2	5.25226	15-16

RA-VIII CAMERA FB

43

FEB. 20, 1965 9 HR 57 MIN 6 SEC 507 MS

TAB NO 85 ATLAS PHOTO NO 85 POD SEQUENCE NO 531

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				30.249	53.70966	2.141	22.805	1789.210	2.620	-42.917	74.042					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.382	24.284	70.73318	-102.3	-5.3	-92.9	77.7	1.15625	0.751	-90.0	74.8	34.0	41.3	40.7	0.	1-2
3	2.458	24.194	69.29024	-105.0	-5.2	-91.3	77.2	1.13120	0.768	-87.4	74.7	35.9	39.9	38.5	3.54153	2-3
4	2.462	24.398	73.32615	-103.9	-5.6	-91.3	77.4	1.19724	0.723	-87.1	74.9	32.2	43.7	42.5	6.16154	3-4
5	2.303	24.377	72.40581	-99.7	-5.5	-94.6	78.3	1.18206	0.733	-93.0	74.9	32.2	42.9	42.7	4.84745	4-5
6	2.308	24.177	68.47035	-100.5	-5.1	-94.4	78.1	1.11794	0.778	-92.7	74.7	35.9	39.9	38.8	6.05298	5-6
7	2.458	24.194	69.29024	-105.0	-5.2	-91.3	77.2	1.13120	0.768	-87.4	74.7	35.9	39.9	38.5	4.57306	6-7
8	2.530	24.109	68.06089	-108.0	-5.1	-89.8	76.6	1.10685	0.785	-85.0	74.7	37.9	38.6	36.3	3.38985	7-8
9	2.538	24.303	71.77243	-106.6	-5.5	-89.7	76.8	1.17002	0.741	-84.5	74.9	34.2	42.3	40.2	5.87413	8-9
10	2.548	24.521	76.28848	-105.4	-5.9	-89.6	77.0	1.24129	0.696	-83.9	75.1	30.4	46.1	44.1	6.60534	9-10
11	2.382	24.498	75.12602	-101.4	-5.7	-93.1	77.9	1.22537	0.706	-90.0	75.0	30.2	45.2	44.7	5.06723	10-11
12	2.221	24.475	74.32512	-97.3	-5.6	-96.5	78.8	1.20870	0.715	-96.2	75.0	30.4	44.6	44.6	4.93286	11-12
13	2.230	24.265	70.03432	-97.8	-5.2	-96.1	78.6	1.14169	0.760	-95.6	74.8	34.2	40.7	40.6	6.36400	12-13
14	2.238	24.078	66.50332	-98.5	-4.8	-95.8	78.4	1.08209	0.804	-95.1	74.6	37.9	36.8	36.7	5.67741	13-14
15	2.382	24.093	67.12315	-103.3	-4.9	-92.8	77.5	1.09487	0.795	-90.0	74.6	37.9	37.5	36.8	4.39631	14-15
16	2.530	24.109	68.06089	-108.0	-5.1	-89.8	76.6	1.10685	0.785	-85.0	74.7	37.9	38.6	36.3	4.50181	15-16

FEB. 20, 1965 9 HR 57 MIN 11 SEC 677 MS

TAB NO 86 ATLAS PHOTO NO 86 POD SEQUENCE NO 533

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				25.129	44.58163	2.228	23.110	1780.082	2.626	-42.725	74.054					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.431	24.348	58.88319	-102.3	-5.4	-92.9	77.7	0.96254	0.750	-90.0	74.9	34.0	41.4	40.8	0.	1-2
3	2.494	24.274	57.68006	-105.1	-5.2	-91.3	77.1	0.96166	0.767	-87.4	74.8	35.9	40.0	38.6	2.94895	2-3
4	2.497	24.443	61.04748	-104.0	-5.6	-91.3	77.3	0.99676	0.723	-87.1	75.0	32.2	43.8	42.5	5.13440	3-4
5	2.365	24.426	60.27627	-99.8	-5.5	-94.7	78.2	0.98404	0.733	-93.0	75.0	32.2	43.0	42.8	4.03652	4-5
6	2.369	24.259	56.99282	-100.6	-5.1	-94.4	78.0	0.93056	0.777	-92.7	74.8	35.9	39.1	38.9	5.04352	5-6
7	2.494	24.274	57.68006	-105.1	-5.2	-91.3	77.1	0.94166	0.767	-87.4	74.8	35.9	40.0	38.6	3.80750	6-7
8	2.554	24.203	56.65367	-107.9	-5.1	-89.8	76.6	0.92133	0.784	-85.0	74.8	37.9	38.7	36.4	2.82288	7-8
9	2.561	24.364	59.75216	-106.6	-5.5	-89.7	76.8	0.97407	0.740	-84.5	74.9	34.2	42.4	40.2	4.89553	8-9
10	2.569	24.546	63.51793	-105.4	-5.9	-89.6	77.0	1.03350	0.696	-83.9	75.1	30.4	46.2	44.1	5.50337	9-10
11	2.431	24.526	62.54465	-101.5	-5.8	-93.1	77.8	1.02019	0.705	-90.1	75.1	30.2	45.3	44.7	4.21973	10-11
12	2.296	24.508	61.87310	-97.4	-5.6	-96.5	78.7	1.00620	0.715	-96.2	75.1	30.5	44.6	44.6	4.10770	11-12
13	2.304	24.333	58.29550	-97.9	-5.2	-96.1	78.5	0.95033	0.759	-95.6	74.9	34.2	40.7	40.7	5.30149	12-13
14	2.311	24.177	55.34810	-98.6	-4.9	-95.8	78.3	0.90058	0.803	-95.1	74.7	37.9	36.9	36.8	4.73070	13-14
15	2.431	24.189	55.86948	-103.4	-5.0	-92.8	77.5	0.91131	0.794	-90.0	74.7	37.9	37.6	36.9	3.65983	14-15
16	2.554	24.203	56.65367	-107.9	-5.1	-89.8	76.6	0.92133	0.784	-85.0	74.8	37.9	38.7	36.4	3.74794	15-16

RA-VIII CAMERA FB

44

FEB. 20, 1965 9 HR 57 MIN 16 SEC 747 MS

TAB NO 87 ATLAS PHOTO NO 87 POD SEQUENCE NO 535

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				20.009	35.46803	2.316	23.417	1770.968	2.631	-42.532	74.067					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.479	24.412	46.98406	-102.4	-5.4	-92.9	77.6	0.76803	0.749	-90.0	75.0	34.0	41.5	40.8	0.	1-2
3	2.529	24.352	46.02253	-105.1	-5.2	-91.3	77.1	0.75134	0.766	-87.4	74.9	35.9	40.1	38.7	2.35361	2-3
4	2.532	24.488	48.71550	-104.0	-5.7	-91.4	77.3	0.79541	0.722	-87.1	75.0	32.2	43.8	42.6	4.10086	3-4
5	2.427	24.474	48.09608	-99.9	-5.5	-94.7	78.1	0.78519	0.732	-93.0	75.0	32.2	43.0	42.8	3.22175	4-5
6	2.430	24.341	45.47046	-100.7	-5.1	-94.4	77.9	0.74243	0.776	-92.7	74.9	35.9	39.2	38.9	4.02791	5-6
7	2.529	24.352	46.02253	-105.1	-5.2	-91.3	77.1	0.75134	0.766	-87.4	74.9	35.9	40.1	38.7	3.03853	6-7
8	2.578	24.294	45.20121	-107.9	-5.1	-89.8	76.6	0.73508	0.783	-85.0	74.9	37.9	38.8	36.5	2.25317	7-8
9	2.583	24.425	47.68047	-106.6	-5.5	-89.7	76.8	0.77728	0.739	-84.5	75.0	34.2	42.5	40.3	3.91059	8-9
10	2.589	24.570	50.69014	-105.5	-5.9	-89.6	77.0	0.82478	0.695	-83.9	75.1	30.4	46.2	44.1	4.39485	9-10
11	2.479	24.554	49.91042	-101.5	-5.8	-93.1	77.8	0.81410	0.705	-90.1	75.1	30.2	45.3	44.7	3.36812	10-11
12	2.372	24.539	49.36945	-97.5	-5.7	-96.5	78.6	0.80286	0.714	-96.2	75.1	30.5	44.6	44.6	3.27860	11-12
13	2.378	24.399	46.51039	-98.1	-5.3	-96.2	78.4	0.75820	0.759	-95.6	74.9	34.2	40.8	40.8	4.23302	12-13
14	2.384	24.275	44.15234	-98.7	-4.9	-95.8	78.3	0.71841	0.802	-95.1	74.8	37.9	37.0	36.9	3.77821	13-14
15	2.479	24.285	44.57266	-103.4	-5.0	-92.8	77.4	0.72704	0.793	-90.0	74.8	37.9	37.7	37.0	2.92029	14-15
16	2.578	24.296	45.20121	-107.9	-5.1	-89.8	76.6	0.73508	0.783	-85.0	74.9	37.9	38.8	36.5	2.99081	15-16

FEB. 20, 1965 9 HR 57 MIN 21 SEC 867 MS

TAB NO 88 ATLAS PHOTO NO 88 POD SEQUENCE NO 537

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				14.889	26.36938	2.405	23.728	1761.869	2.636	-42.337	74.080					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.528	24.474	35.03529	-102.5	-5.4	-93.0	77.5	0.57271	0.748	-90.1	75.0	34.0	41.6	40.9	0.	1-2
3	2.565	24.430	34.31719	-105.1	-5.3	-91.3	77.1	0.56024	0.765	-87.4	75.0	35.9	40.2	38.8	1.75549	2-3
4	2.567	24.531	36.32972	-104.0	-5.7	-91.4	77.2	0.59318	0.722	-87.1	75.1	32.2	43.9	42.6	3.06092	3-4
5	2.488	24.521	35.86484	-99.9	-5.6	-94.7	78.0	0.58551	0.731	-93.0	75.1	32.2	43.1	42.9	2.40310	4-5
6	2.491	24.421	31.90272	-100.7	-5.2	-94.5	77.9	0.55355	0.775	-92.7	75.0	35.9	39.3	39.0	3.00622	5-6
7	2.565	24.430	34.31719	-105.1	-5.3	-91.3	77.1	0.56024	0.765	-87.4	75.0	35.9	40.2	38.8	2.26613	6-7
8	2.601	24.388	33.70300	-107.9	-5.1	-89.7	76.6	0.54809	0.782	-85.0	74.9	37.9	38.9	36.6	1.68071	7-8
9	2.605	24.484	35.55693	-106.6	-5.5	-89.7	76.8	0.57964	0.739	-84.5	75.0	34.2	42.5	40.4	2.91928	8-9
10	2.610	24.592	37.80465	-105.5	-5.9	-89.6	76.9	0.61512	0.695	-83.9	75.1	30.4	46.2	44.1	3.21928	9-10
11	2.527	24.580	37.22092	-101.6	-5.8	-93.1	77.7	0.60712	0.705	-90.1	75.1	30.2	45.3	44.7	2.51239	10-11
12	2.448	24.569	36.81372	-97.6	-5.7	-96.6	78.5	0.59867	0.714	-96.2	75.1	30.5	44.7	44.7	2.44553	11-12
13	2.452	24.465	34.67854	-98.2	-5.3	-96.2	78.3	0.56532	0.758	-95.6	75.0	34.2	40.9	40.8	3.15859	12-13
14	2.456	24.372	32.91557	-98.8	-4.9	-95.9	78.2	0.53557	0.801	-95.1	74.9	37.9	37.1	37.0	2.81993	13-14
15	2.528	24.380	33.23219	-103.5	-5.0	-92.8	77.4	0.54206	0.792	-90.0	74.9	37.9	37.8	37.1	2.17766	14-15
16	2.601	24.388	33.70300	-107.9	-5.1	-89.7	76.6	0.54809	0.782	-85.0	74.9	37.9	38.9	36.6	2.23039	15-16

RA-VIII CAMERA FB

45

FEB. 20, 1965 9 HR 57 MIN 26 SEC 987 MS TAB NO 89 ATLAS PHOTO NO 89 POD SEQUENCE NO 539

TRAJECTORY DATA							SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
							9.769	17.28619	2.494	24.042	1752.786	2.642	-42.140	74.094		
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.576	24.536	23.03603	-102.5	-5.5	-93.0	77.5	0.37656	0.747	-90.1	75.1	34.0	41.6	40.9	0.	1- 2
3	2.600	24.507	22.56322	-105.1	-5.3	-91.3	77.0	0.36835	0.764	-87.4	75.1	35.9	40.2	38.9	1.15451	2- 3
4	2.602	24.573	23.88930	-104.1	-5.7	-91.4	77.2	0.39006	0.721	-87.1	75.1	32.2	43.9	42.7	2.01447	3- 4
5	2.550	24.566	23.58159	-100.0	-5.6	-94.7	77.9	0.38498	0.731	-93.0	75.1	32.2	43.1	42.9	1.58053	4- 5
6	2.551	24.501	22.28880	-100.8	-5.2	-94.5	77.8	0.36392	0.774	-92.7	75.1	35.9	39.4	39.1	1.97829	5- 6
7	2.600	24.507	22.56322	-105.1	-5.3	-91.3	77.0	0.36835	0.764	-87.4	75.1	35.9	40.2	38.9	1.49025	6- 7
8	2.624	24.479	22.15832	-107.9	-5.1	-89.7	76.6	0.36035	0.781	-85.0	75.0	37.9	39.0	36.7	1.10542	7- 8
9	2.627	24.542	23.38049	-106.6	-5.5	-89.7	76.7	0.38114	0.738	-84.5	75.1	34.2	42.6	40.4	1.92153	8- 9
10	2.630	24.613	24.86068	-105.5	-6.0	-89.7	76.9	0.40451	0.695	-83.9	75.2	30.4	46.2	44.2	2.15815	9-10
11	2.576	24.606	24.47530	-101.6	-5.9	-93.1	77.6	0.39922	0.704	-90.1	75.2	30.2	45.4	44.8	1.65248	10-11
12	2.523	24.598	24.20494	-97.7	-5.8	-96.6	78.4	0.39362	0.714	-96.2	75.2	30.5	44.7	44.7	1.60846	11-12
13	2.526	24.529	22.79906	-98.3	-5.4	-96.2	78.2	0.37166	0.757	-95.6	75.1	34.2	40.9	40.9	2.07806	12-13
14	2.529	24.468	21.63692	-98.9	-5.0	-95.9	78.1	0.35206	0.800	-95.1	75.0	37.9	37.2	37.1	1.85580	13-14
15	2.576	24.473	21.84728	-103.5	-5.1	-92.8	77.3	0.35636	0.791	-90.0	75.0	37.7	37.9	37.1	1.43188	14-15
16	2.624	24.479	22.15832	-107.9	-5.1	-89.7	76.6	0.36035	0.781	-85.0	75.0	37.9	39.0	36.7	1.46666	15-16

FEB. 20, 1965 9 HR 57 MIN 32 SEC 107 MS TAB NO 90 ATLAS PHOTO NO 90 POD SEQUENCE NO 541

TRAJECTORY DATA							SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
							4.649	8.21872	2.584	24.359	1743.719	2.647	-41.941	74.108		
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.624	24.596	10.98577	-102.6	-5.5	-93.0	77.4	0.17958	0.747	-90.1	75.2	34.0	41.7	41.0	0.	1- 2
3	2.635	24.582	10.76001	-105.2	-5.3	-91.3	77.0	0.17566	0.763	-87.4	75.1	35.9	40.3	38.9	0.55070	2- 3
4	2.636	24.614	11.39372	-104.1	-5.7	-91.4	77.2	0.18603	0.721	-87.1	75.2	32.2	44.0	42.7	0.96159	3- 4
5	2.611	24.611	11.24600	-100.1	-5.7	-94.7	77.9	0.18360	0.730	-93.0	75.2	32.2	43.2	42.9	0.75397	4- 5
6	2.612	24.579	10.62821	-100.9	-5.3	-94.5	77.7	0.17353	0.773	-92.7	75.1	35.9	39.5	39.2	0.94423	5- 6
7	2.635	24.582	10.76001	-105.2	-5.3	-91.3	77.0	0.17566	0.763	-87.4	75.1	35.9	40.3	38.9	0.71081	6- 7
8	2.647	24.569	10.56640	-107.9	-5.1	-89.7	76.5	0.17183	0.780	-85.0	75.1	37.9	39.0	36.8	0.52733	7- 8
9	2.648	24.599	11.15079	-106.6	-5.6	-89.7	76.7	0.18178	0.737	-84.5	75.2	34.2	42.6	40.5	0.91734	8- 9
10	2.649	24.633	11.85772	-105.5	-6.0	-89.7	76.9	0.19294	0.694	-83.9	75.2	30.4	46.3	44.2	1.02997	9-10
11	2.624	24.629	11.67319	-101.7	-5.9	-93.1	77.6	0.19040	0.704	-90.1	75.2	30.2	45.4	44.8	0.78832	10-11
12	2.599	24.626	11.54300	-97.8	-5.9	-96.6	78.3	0.18771	0.713	-96.2	75.2	30.5	44.7	44.7	0.76730	11-12
13	2.600	24.593	10.87163	-98.4	-5.5	-96.2	78.1	0.17723	0.756	-95.6	75.2	34.2	41.0	41.0	0.99161	12-13
14	2.601	24.564	10.31601	-99.0	-5.0	-95.9	78.0	0.16785	0.799	-95.1	75.1	37.9	37.3	37.2	0.88580	13-14
15	2.624	24.566	10.41738	-103.6	-5.1	-92.8	77.3	0.16992	0.789	-90.0	75.1	37.7	38.0	37.2	0.48288	14-15
16	2.647	24.569	10.56640	-107.9	-5.1	-89.7	76.5	0.17183	0.780	-85.0	75.1	37.9	39.0	36.8	0.69952	15-16

TIME- AND CAMERA-DEPENDENT PARAMETERS

1

FEB. 20, 1965 9 HR 46 MIN 3 SEC 899 MS TAB NO 1 POD SEQUENCE NO 831

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
PHOTO DATA				692.857	1272.07791	-4.522	-0.506	3007.578	2.155	-58.175	74.468					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-4.884	7.660	1312.82686	-89.5	-1.6	-90.5	0.5	9.22487	0.946	-90.7	58.0	39.1	18.9	18.9	0.	1-2
3	-4.349	7.035	1306.89195	-93.4	-1.8	-90.6	88.8	9.18157	0.954	-89.9	57.4	39.9	17.5	17.5	24.87499	2-3
4	-4.384	8.326	1319.56380	-92.9	-1.7	-90.6	88.8	9.27060	0.937	-89.9	58.7	38.3	20.4	20.4	39.01984	3-4
5	-5.516	8.294	1319.72583	-85.6	-1.3	-90.4	2.3	9.27147	0.937	-91.8	58.7	38.3	20.5	20.3	34.30389	4-5
6	-5.470	7.001	1307.05000	-85.0	-1.5	-90.3	2.5	9.18241	0.954	-91.7	57.4	39.9	17.6	17.5	39.02445	5-6
7	-4.349	7.035	1306.89195	-93.4	-1.8	-90.6	88.8	9.18157	0.954	-89.9	57.4	39.9	17.5	17.5	33.97449	6-7

FEB. 20, 1965 9 HR 46 MIN 17 SEC 339 MS TAB NO 2 ATLAS PHOTO NO 1 POD SEQUENCE NO 847

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
PHOTO DATA				679.417	1247.45505	-4.444	-0.222	2982.955	2.162	-57.980	74.447					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-4.704	8.007	1289.26175	-90.0	-1.6	-90.6	0.0	9.05929	0.944	-90.7	58.4	39.1	19.3	19.3	0.	1-2
3	-4.215	7.392	1283.35129	-93.8	-1.8	-90.7	88.4	9.01618	0.952	-89.9	57.7	39.9	17.9	17.9	24.44739	2-3
4	-4.248	8.663	1296.04163	-93.3	-1.7	-90.7	88.5	9.10534	0.935	-89.9	59.0	38.3	20.8	20.7	38.40106	3-4
5	-5.360	8.630	1296.10716	-86.2	-1.4	-90.5	1.8	9.10554	0.935	-91.8	59.0	38.3	20.8	20.7	33.69087	4-5
6	-5.316	7.358	1283.41537	-85.6	-1.5	-90.4	1.9	9.01637	0.952	-91.7	57.7	39.9	17.9	17.8	38.40234	5-6
7	-4.215	7.392	1283.35129	-93.8	-1.8	-90.7	88.4	9.01618	0.952	-89.9	57.7	39.9	17.9	17.9	33.36097	6-7

FEB. 20, 1965 9 HR 46 MIN 20 SEC 699 MS TAB NO 3 POD SEQUENCE NO 851

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
PHOTO DATA				676.057	1241.29617	-4.424	-0.150	2976.796	2.163	-57.931	74.442					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-4.704	8.093	1283.36626	-90.1	-1.6	-90.6	89.9	9.01786	0.943	-90.7	58.5	39.1	19.4	19.4	0.	1-2
3	-4.182	7.481	1277.46237	-93.8	-1.9	-90.7	88.3	8.97481	0.951	-89.9	57.8	39.9	18.0	17.9	24.34037	2-3
4	-4.215	8.747	1290.15607	-93.3	-1.8	-90.7	88.4	9.06399	0.935	-89.9	59.1	38.3	20.9	20.8	38.24606	3-4
5	-5.321	8.714	1290.19794	-86.3	-1.4	-90.5	1.7	9.06402	0.935	-91.8	59.1	38.3	20.9	20.8	33.53749	4-5
6	-5.277	7.447	1277.50343	-85.7	-1.5	-90.5	1.8	8.97484	0.951	-91.7	57.8	39.9	18.0	17.9	38.24650	5-6
7	-4.182	7.481	1277.46237	-93.8	-1.9	-90.7	88.3	8.97481	0.951	-89.9	57.8	39.9	18.0	17.9	33.20754	6-7

FEB. 20, 1965 9 HR 46 MIN 37 SEC 499 MS TAB NO 4 POD SEQUENCE NO 871

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
PHOTO DATA				659.256	1210.48492	-4.323	0.212	2945.985	2.171	-57.684	74.416					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-4.519	8.522	1253.81538	-90.7	-1.7	-90.7	89.3	8.81021	0.941	-90.7	58.9	39.1	19.8	19.8	0.	1-2
3	-4.009	7.923	1247.95403	-94.3	-1.9	-90.8	87.7	8.76750	0.949	-89.9	58.3	39.9	18.4	18.4	23.80188	2-3
4	-4.040	9.162	1260.64873	-93.8	-1.8	-90.8	87.9	8.85669	0.932	-89.9	59.5	38.3	21.3	21.2	37.46513	3-4
5	-5.122	9.130	1260.56790	-86.9	-1.4	-90.6	1.1	8.85586	0.932	-91.7	59.5	38.3	21.3	21.2	32.76896	4-5
6	-4.080	7.889	1247.87579	-86.5	-1.5	-90.6	1.1	8.76670	0.949	-91.7	58.3	39.9	18.4	18.3	37.46123	5-6
7	-4.009	7.923	1247.95403	-94.3	-1.9	-90.8	87.7	8.76750	0.949	-89.9	58.3	39.9	18.4	18.4	32.43897	6-7

RA-VIII CAMERA P1

2

FEB. 20, 1965 9 HR 46 MIN 54 SEC 299 MS TAB NO 5 POD SEQUENCE NO 891

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
PHOTO DATA				642.456	1179.64508	-4.220	0.582	2915.145	2.179	-57.431	74.391					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-4.338	8.946	1224.17279	-91.2	-1.7	-90.8	88.8	8.60192	0.938	-90.7	59.3	39.1	20.2	20.2	0.	1-2
3	-3.840	8.360	1218.35905	-94.8	-1.9	-90.9	87.3	8.55958	0.946	-89.9	58.7	39.9	18.9	18.8	23.26086	2-3
4	-3.870	9.573	1231.03455	-94.2	-1.8	-90.9	87.4	8.64863	0.929	-89.9	59.9	38.3	21.7	21.6	36.67678	3-4
5	-4.926	9.541	1230.84218	-87.5	-1.4	-90.8	0.5	8.64702	0.930	-91.7	59.9	38.3	21.6	21.6	31.99813	4-5
6	-4.885	8.327	1218.17241	-87.2	-1.5	-90.8	0.5	8.55802	0.947	-91.7	58.7	39.9	18.8	18.8	36.66890	5-6
7	-3.840	8.360	1218.35905	-94.8	-1.9	-90.9	87.3	8.55958	0.946	-89.9	58.7	39.9	18.9	18.8	31.66863	6-7

FEB. 20, 1965 9 HR 47 MIN 11 SEC 99 MS TAB NO 6 POD SEQUENCE NO 911

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
PHOTO DATA				625.656	1148.77707	-4.115	0.960	2884.277	2.187	-57.173	74.365					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-4.153	9.373	1190.51108	-91.8	-1.7	-90.9	88.2	8.39350	0.936	-90.7	59.7	39.1	20.6	20.6	0.	1-2
3	-3.668	8.800	1188.74957	-95.2	-1.9	-91.0	86.8	8.35155	0.944	-89.9	59.2	39.9	19.3	19.2	22.71883	2-3
4	-3.696	9.987	1201.39806	-94.6	-1.8	-91.0	86.9	8.44042	0.927	-89.9	60.3	38.3	22.1	22.0	35.88718	3-4
5	-4.726	9.955	1201.09280	-88.2	-1.5	-90.9	89.9	8.43802	0.927	-91.7	60.3	38.3	22.0	22.0	31.22726	4-5
6	-4.687	8.767	1188.45335	-87.9	-1.6	-90.9	89.9	8.34923	0.944	-91.7	59.1	39.9	19.2	19.2	35.87522	5-6
7	-3.668	8.800	1188.74957	-95.2	-1.9	-91.0	86.8	8.35155	0.944	-89.9	59.2	39.9	19.3	19.2	30.89846	6-7

FEB. 20, 1965 9 HR 47 MIN 27 SEC 900 MS TAB NO 7 POD SEQUENCE NO 931

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
PHOTO DATA				608.856	1117.88217	-4.007	1.347	2853.382	2.196	-56.911	74.339					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.967	9.803	1164.82722	-92.3	-1.7	-91.0	87.7	8.18492	0.933	-90.7	60.2	39.1	21.1	21.1	0.	1-2
3	-3.494	9.243	1159.11993	-95.7	-1.9	-91.1	86.3	8.14339	0.941	-89.9	59.6	39.9	19.8	19.7	22.17617	2-3
4	-3.521	10.403	1171.73320	-95.0	-1.9	-91.1	86.5	8.23201	0.924	-89.9	60.8	38.3	22.5	22.4	35.09601	3-4
5	-4.526	10.371	1171.31999	-88.8	-1.5	-91.0	89.3	8.22886	0.924	-91.7	60.7	38.3	22.4	22.4	30.45506	4-5
6	-4.488	9.210	1158.71906	-88.6	-1.6	-91.0	89.3	8.14034	0.942	-91.7	59.6	39.9	19.7	19.6	35.08007	5-6
7	-3.494	9.243	1159.11993	-95.7	-1.9	-91.1	86.3	8.14339	0.941	-89.9	59.6	39.9	19.8	19.7	30.12807	6-7

FEB. 20, 1965 9 HR 47 MIN 44 SEC 700 MS TAB NO 8 POD SEQUENCE NO 951

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
PHOTO DATA				592.056	1086.96143	-3.896	1.741	2822.461	2.204	-56.643	74.314					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.781	10.236	1135.11714	-92.8	-1.8	-91.2	87.2	7.97615	0.930	-90.7	60.6	39.1	21.5	21.5	0.	1-2
3	-3.321	9.689	1129.46629	-96.1	-2.0	-91.2	85.9	7.93505	0.938	-89.9	60.0	39.9	20.2	20.1	21.63287	2-3
4	-3.346	10.823	1142.03552	-95.4	-1.9	-91.1	86.0	8.02337	0.921	-89.8	61.2	38.3	23.0	22.9	34.30289	3-4
5	-4.325	10.791	1141.51952	-89.3	-1.5	-91.2	88.8	8.01949	0.922	-91.7	61.1	38.3	22.9</			

RA-VIII CAMERA P1

3

FEB. 20,1965 9 HR 48 MIN 1 SEC 500 MS TAB NO 9 POD SEQUENCE NO 971

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				575.255		1056.01541	-3.783	2.145	2791.515	2.213	-56.369	74.289			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.595	10.669	1105.36116	-93.2	-1.8	-91.3	86.8	7.76707	0.928	-90.7	61.0	39.1	21.9	0.	1-2
3	-3.147	10.135	1099.77003	-96.5	-2.0	-91.3	85.4	7.72642	0.936	-89.8	60.5	39.9	20.7	20.6	12.08818
4	-3.171	11.243	1112.28375	-95.8	-2.0	-91.2	85.6	7.81434	0.918	-89.8	61.6	38.3	23.4	23.3	33.50624
5	-4.125	11.211	1111.67043	-89.9	-1.6	-91.3	88.3	7.80979	0.919	-91.7	61.6	38.3	23.3	23.3	28.91170
6	-4.090	10.103	1099.17543	-89.9	-1.7	-91.3	88.2	7.72203	0.937	-91.6	60.5	39.9	20.6	20.5	33.48274
7	-3.147	10.135	1099.77003	-96.5	-2.0	-91.3	85.4	7.72642	0.936	-89.8	60.5	39.9	20.7	20.6	28.98626

FEB. 20,1965 9 HR 48 MIN 18 SEC 300 MS TAB NO 10 POD SEQUENCE NO 991

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				558.455		1025.04575	-3.667	2.957	2760.546	2.222	-56.091	74.264			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.409	11.103	1075.54263	-93.7	-1.9	-91.4	86.3	7.55754	0.925	-90.7	61.5	39.1	22.4	0.	1-2
3	-2.973	10.582	1070.01584	-96.8	-2.0	-91.3	85.0	7.51738	0.933	-89.8	60.9	39.9	21.2	21.0	20.54164
4	-2.995	11.663	1082.46027	-96.1	-2.0	-91.3	85.2	7.60482	0.915	-89.8	62.0	38.3	23.8	23.7	32.70472
5	-3.924	11.631	1081.75491	-90.4	-1.6	-91.4	87.8	7.59962	0.916	-91.7	62.0	38.3	23.7	23.7	28.13749
6	-3.891	10.550	1069.33224	-90.5	-1.7	-91.4	87.6	7.51237	0.934	-91.6	60.9	39.9	21.0	21.0	32.67763
7	-2.973	10.582	1070.01584	-96.8	-2.0	-91.3	85.0	7.51738	0.933	-89.8	60.9	39.9	21.2	21.0	27.81389

FEB. 20,1965 9 HR 48 MIN 35 SEC 100 MS TAB NO 11 POD SEQUENCE NO 1011

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				541.655		994.05319	-3.549	2.979	2729.553	2.231	-55.806	74.239			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.220	11.536	1045.65852	-94.2	-1.9	-91.5	85.8	7.34755	0.922	-90.7	61.9	39.1	22.8	0.	1-2
3	-2.797	11.028	1040.20287	-97.2	-2.1	-91.4	84.6	7.30792	0.930	-89.8	61.4	39.9	21.6	21.5	19.99255
4	-2.817	12.083	1052.56407	-96.5	-2.1	-91.5	84.8	7.39478	0.924	-89.8	62.4	38.3	24.3	24.1	31.89807
5	-3.720	12.050	1051.76714	-90.9	-1.7	-91.5	87.2	7.38895	0.913	-91.7	62.4	38.3	24.1	24.1	27.36189
6	-3.689	10.996	1039.43085	-91.1	-1.7	-91.5	87.1	7.30230	0.931	-91.6	61.4	39.9	21.4	21.4	31.86733
7	-2.797	11.028	1040.20287	-97.2	-2.1	-91.4	84.6	7.30792	0.930	-89.8	61.4	39.9	21.6	21.5	27.04043

FEB. 20,1965 9 HR 48 MIN 51 SEC 901 MS TAB NO 12 POD SEQUENCE NO 1031

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				524.855		963.03943	-3.427	3.410	2698.539	2.240	-55.815	74.214			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.030	11.969	1015.70300	-94.6	-2.0	-91.5	85.4	7.13706	0.919	-90.7	62.3	39.1	23.3	23.2	0.
3	-2.619	11.475	1010.32359	-97.6	-2.1	-91.5	84.2	7.09801	0.927	-89.8	61.8	39.9	22.1	21.9	19.44104
4	-2.638	12.502	1022.58732	-96.8	-2.1	-91.5	84.4	7.18418	0.909	-89.8	62.9	38.3	24.7	24.5	31.08582
5	-3.515	12.469	1021.70339	-91.5	-1.7	-91.6	86.7	7.17775	0.910	-91.7	62.8	38.3	24.5	24.5	26.58470
6	-3.486	11.443	1009.46770	-91.6	-1.8	-91.6	86.6	7.09180	0.928	-91.6	61.8	39.9	21.9	21.9	31.05160
7	-2.619	11.475	1010.32359	-97.6	-2.1	-91.5	84.2	7.09801	0.927	-89.8	61.8	39.9	22.1	21.9	26.26549

RA-VIII CAMERA P1

4

FEB. 20,1965 9 HR 49 MIN 8 SEC 701 MS TAB NO 13 POD SEQUENCE NO 1051

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				508.055		932.00586	-3.302	3.851	2667.506	2.250	-55.219	74.190			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.839	12.397	985.62139	-95.1	-2.0	-91.6	84.9	6.92569	0.916	-90.6	62.8	39.1	23.7	0.	1-2
3	-2.441	11.917	980.32583	-98.0	-2.2	-91.6	83.8	6.88725	0.924	-89.8	62.3	39.9	22.5	22.3	18.88559
4	-2.459	12.917	992.47089	-97.2	-2.2	-91.5	84.0	6.97260	0.905	-89.8	63.3	38.3	25.1	25.0	30.26365
5	-3.310	12.884	991.50653	-92.0	-1.8	-91.7	86.3	6.96559	0.907	-91.7	63.2	38.3	24.9	24.9	25.80420
6	-3.282	11.885	979.39240	-92.2	-1.8	-91.7	86.1	6.88051	0.925	-91.6	62.2	39.9	22.3	22.3	30.22614
7	-2.441	11.917	980.32583	-98.0	-2.2	-91.6	83.8	6.88725	0.924	-89.8	62.3	39.9	22.5	22.3	25.48787

FEB. 20,1965 9 HR 49 MIN 25 SEC 501 MS TAB NO 14 POD SEQUENCE NO 1071

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				491.254		900.95370	-3.175	4.303	2636.454	2.259	-54.916	74.166			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.653	12.824	955.43201	-95.4	-2.1	-91.7	84.6	6.71356	0.912	-90.6	63.2	39.1	24.1	24.1	0.
3	-2.268	12.357	950.22380	-98.3	-2.2	-91.6	83.4	6.67577	0.921	-89.8	62.7	39.9	23.0	22.8	18.32764
4	-2.284	13.329	962.23276	-97.5	-2.2	-91.6	83.7	6.76016	0.902	-89.8	63.7	38.3	25.6	25.4	29.43320
5	-3.110	13.297	961.19951	-92.4	-1.9	-91.8	85.8	6.75268	0.904	-91.6	63.7	38.3	25.4	25.3	25.02051
6	-3.083	12.325	949.22404	-92.7	-1.9	-91.8	85.6	6.66857	0.922	-91.6	62.7	39.9	22.8	22.8	29.39280
7	-2.268	12.357	950.22380	-98.3	-2.2	-91.6	83.4	6.67577	0.921	-89.8	62.7	39.9	23.0	22.8	24.70768

FEB. 20,1965 9 HR 49 MIN 42 SEC 301 MS TAB NO 15 POD SEQUENCE NO 1091

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				474.454		869.88513	-3.044	4.765	2605.385	2.269	-54.606	74.143			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.464	13.252	925.18348	-95.8	-2.1	-91.8	84.2	6.50101	0.909	-90.6	63.6	39.1	24.6	24.5	0.
3	-2.091	12.799	920.06744	-98.6	-2.3	-91.7	83.1	6.46390	0.917	-89.8	63.2	39.9	23.5	23.2	17.76752
4	-2.107	13.744	931.92915	-97.8	-2.3	-91.7	83.3	6.54726	0.899	-89.8	64.1	38.3	26.0	25.8	28.59829
5	-2.906	13.711	930.82883	-92.9	-1.9	-91.9	85.4	6.53931	0.901	-91.6	64.1	38.3	25.8	25.8	24.23554
6	-2.881	12.767	919.00329	-93.2	-1.9	-91.9	85.2	6.45626	0.919	-91.6	63.1	39.9	23.2	23.2	28.55498
7	-2.091	12.799	920.06744	-98.6	-2.3	-91.7	83.1	6.46390	0.917	-89.8	63.2	39.9	23.5	23.2	23.92631

FEB. 20,1965 9 HR 49 MIN 43 SEC 141 MS TAB NO 16 ATLAS PHOTO NO 2 POD SEQUENCE NO 1092

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				473.614		868.33127	-3.037	4.788	2603.831	2.270	-54.590	74.142			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.455	13.274	923.67122	-95.9	-2.1	-91.8	84.1	6.49038	0.909	-90.6	63.6	39.1	24.6	24.5	0.
3	-2.082	12.821	918.55992	-98.6	-2.3	-91.7	83.1	6.45331	0.917	-89.8	63.2	39.9	23.5	23.2	17.73952
4	-2.098	13.764	930.41419	-97.8	-2.3	-91.7	83.3	6.53662	0.899	-89.8	64.1	38.3	26.0	25.8	28.55656
5	-2.896	13.732	929.31033	-92.9	-1.9	-91.9	85.3	6.52864	0.901	-91.6	64.1	38.3	25.8	25.8	24.19628
6	-2.870	12.790	917.49236	-93.2	-1.9	-91.9	85.1								

RA-VIII CAMERA P1

5

FEB. 20, 1965 9 HR 49 MIN 59 SEC 101 MS

TAB NO 17

POD SEQUENCE NO 1111

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				457.654	838.80167	-2.909	5.238	2574.302	2.279	-54.289	74.120					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-2.273	13.680	894.85206	-96.3	-2.2	-91.9	83.7	6.28788	0.906	-90.6	64.1	39.1	25.0	24.9	0.	1-2
3	-1.913	13.241	889.83472	-99.0	-2.3	-91.8	82.7	6.25150	0.914	-89.8	63.6	39.9	23.9	23.7	17.20439	2-3
4	-1.927	14.158	901.53499	-98.2	-2.3	-91.7	83.0	6.33373	0.896	-89.8	64.5	38.3	26.4	26.2	27.75692	3-4
5	-2.700	14.125	900.36901	-93.4	-2.0	-92.0	84.9	6.32532	0.898	-91.6	64.5	38.3	26.2	26.2	23.64860	4-5
6	-2.676	13.210	888.70750	-93.7	-2.0	-92.0	84.7	6.24342	0.916	-91.6	63.6	39.9	23.7	23.7	27.71074	5-6
7	-1.913	13.241	889.83472	-99.0	-2.3	-91.8	82.7	6.25150	0.914	-89.8	63.6	39.9	23.9	23.7	23.14344	6-7

FEB. 20, 1965 9 HR 50 MIN 15 SEC 902 MS

TAB NO 18

POD SEQUENCE NO 1131

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				440.854	807.70526	-2.771	5.723	2543.205	2.289	-53.966	74.098					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-2.084	14.111	864.45605	-96.6	-2.2	-92.0	83.4	6.07429	0.903	-90.6	64.5	39.1	25.5	25.4	0.	1-2
3	-1.736	13.686	859.53869	-99.3	-2.4	-91.8	82.4	6.03866	0.911	-89.8	64.1	39.9	24.4	24.1	16.64004	2-3
4	-1.749	14.575	871.06681	-98.5	-2.4	-91.8	82.6	6.11967	0.892	-89.8	65.0	38.3	26.9	26.6	26.91084	3-4
5	-2.497	14.542	869.84436	-93.8	-2.1	-92.1	84.5	6.11087	0.894	-91.6	64.9	38.3	26.6	26.6	22.65992	4-5
6	-2.474	13.655	858.35739	-94.2	-2.1	-92.1	84.3	6.03020	0.913	-91.6	64.0	39.9	24.1	24.1	26.86213	5-6
7	-1.736	13.686	859.53869	-99.3	-2.4	-91.8	82.4	6.03866	0.911	-89.8	64.1	39.9	24.4	24.1	22.53892	6-7

FEB. 20, 1965 9 HR 50 MIN 32 SEC 702 MS

TAB NO 19

POD SEQUENCE NO 1151

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				424.054	776.59830	-2.630	6.220	2512.098	2.300	-53.635	74.076					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-1.896	14.543	833.96738	-97.0	-2.3	-92.0	83.0	5.66006	0.899	-90.6	64.9	39.1	25.9	25.8	0.	1-2
3	-1.560	14.131	829.15435	-99.6	-2.4	-91.9	82.0	5.82519	0.907	-89.8	64.5	39.9	24.9	24.5	16.07311	2-3
4	-1.572	14.992	840.49603	-98.7	-2.5	-91.9	82.3	5.90490	0.889	-89.7	65.4	38.3	27.3	27.0	26.05780	3-4
5	-2.293	14.959	839.22345	-94.3	-2.2	-92.2	84.1	5.89575	0.891	-91.6	65.3	38.3	27.0	27.0	21.86857	4-5
6	-2.272	14.100	827.92510	-94.7	-2.1	-92.2	83.9	5.81641	0.910	-91.6	64.5	39.9	24.6	24.6	26.00671	5-6
7	-1.560	14.131	829.15435	-99.6	-2.4	-91.9	82.0	5.82519	0.907	-89.8	64.5	39.9	24.9	24.5	21.57231	6-7

FEB. 20, 1965 9 HR 50 MIN 49 SEC 502 MS

TAB NO 20

POD SEQUENCE NO 1171

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				407.253	745.48291	-2.485	6.729	2480.983	2.310	-53.297	74.055					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-1.707	14.972	803.35320	-97.4	-2.4	-92.1	82.6	5.64494	0.896	-90.6	65.4	39.1	26.4	26.2	0.	1-2
3	-1.384	14.575	798.65054	-99.8	-2.5	-92.0	81.7	5.61088	0.904	-89.7	65.0	39.9	25.3	25.0	15.50256	2-3
4	-1.395	15.407	809.78787	-99.0	-2.6	-91.9	82.0	5.68916	0.885	-89.7	65.8	38.3	27.7	27.4	25.19521	3-4
5	-2.090	15.374	808.47163	-94.7	-2.2	-92.3	83.7	5.67971	0.887	-91.6	65.8	38.3	27.5	27.4	21.07384	4-5
6	-2.069	14.544	797.37964	-95.1	-2.2	-92.3	83.5	5.60181	0.906	-91.5	64.9	39.9	25.0	25.0	25.14203	5-6
7	-1.384	14.575	798.65054	-99.8	-2.5	-92.0	81.7	5.61088	0.904	-89.7	65.0	39.9	25.3	25.0	20.78274	6-7

RA-VIII CAMERA P1

6

FEB. 20, 1965 9 HR 51 MIN 6 SEC 302 MS

TAB NO 21

POD SEQUENCE NO 1191

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				390.453	714.36166	-2.336	7.251	2449.862	2.321	-52.950	74.035					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-1.519	15.394	772.52914	-97.7	-2.5	-92.2	82.3	5.46835	0.892	-90.6	65.8	39.1	26.8	26.6	0.	1-2
3	-1.208	15.011	767.94725	-100.1	-2.6	-92.0	81.4	5.39518	0.901	-89.7	65.4	39.9	25.8	25.4	14.92538	2-3
4	-1.218	15.814	778.85284	-99.3	-2.6	-92.0	81.7	5.47182	0.882	-89.7	66.2	38.3	28.2	27.8	24.31651	3-4
5	-1.887	15.781	777.50001	-95.1	-2.3	-92.4	83.3	5.46212	0.884	-91.6	66.2	38.3	27.9	27.8	20.27328	4-5
6	-1.867	14.980	766.64148	-95.6	-2.3	-92.4	83.1	5.38587	0.903	-91.5	65.4	39.9	25.5	25.4	24.26149	5-6
7	-1.208	15.011	767.94725	-100.1	-2.6	-92.0	81.4	5.39518	0.901	-89.7	65.4	39.9	25.8	25.4	19.98796	6-7

FEB. 20, 1965 9 HR 51 MIN 12 SEC 182 MS

TAB NO 22

ATLAS PHOTO NO 3

POD SEQUENCE NO 1198

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				384.573	703.46832	-2.282	7.437	2438.968	2.325	-52.827	74.028					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-1.452	15.544	761.74448	-97.8	-2.5	-92.2	82.2	5.35257	0.891	-90.6	65.9	39.1	27.0	26.8	0.	1-2
3	-1.146	15.166	757.20497	-100.2	-2.6	-92.0	81.3	5.31971	0.899	-89.7	65.6	39.9	26.0	25.6	14.72345	2-3
4	-1.155	15.959	768.02934	-99.4	-2.7	-92.0	81.6	5.39578	0.880	-89.7	66.4	38.3	28.0	28.0	24.00933	3-4
5	-1.814	15.926	766.66369	-95.3	-2.3	-92.4	83.2	5.38599	0.883	-91.6	66.3	38.3	28.0	28.0	19.99334	4-5
6	-1.796	15.135	755.88702	-95.7	-2.3	-92.4	82.9	5.31032	0.902	-91.5	65.5	39.9	25.6	25.6	23.95365	5-6
7	-1.146	15.166	757.20497	-100.2	-2.6	-92.0	81.3	5.31971	0.899	-89.7	65.6	39.9	26.0	25.6	19.71001	6-7

FEB. 20, 1965 9 HR 51 MIN 23 SEC 102 MS

TAB NO 23

POD SEQUENCE NO 1211

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				373.653	683.23712	-2.182	7.787	2418.737	2.332	-52.596	74.015					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-1.327	15.822	741.67695	-98.1	-2.5	-92.2	82.0	5.21156	0.889	-90.5	66.2	39.1	27.3	27.1	0.	1-2
3	-1.030	15.453	737.21765	-100.4	-2.6	-92.1	81.1	5.17928	0.897	-89.7	65.9	39.9	26.3	25.9	14.34737	2-3
4	-1.039	16.227	747.88605	-99.6	-2.7	-92.0	81.4	5.25426	0.878	-89.7	66.6	38.3	28.6	28.2	23.43596	3-4
5	-1.681	16.195	746.49800	-95.5	-2.4	-92.5	82.9	5.24433	0.881	-91.6	66.6	38.3	28.3	28.3	19.47209	4-5
6	-1.663	15.423	735.87938	-96.0	-2.4	-92.5	82.7	5.16976	0.899	-91.5	65.8	39.9	25.9	25.9	23.37915	5-6
7	-1.030	15.453	737.21765	-100.4	-2.6	-92.1	81.1	5.17928	0.897	-89.7	65.9	39.9	26.3	25.9	19.19266	6-7

FEB. 20, 1965 9 HR 51 MIN 39 SEC 903 MS

TAB NO 24

POD SEQUENCE NO 1231

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				356.853	652.11246	-2.025	8.336	2387.612	2.344	-52.233	73.997					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-1.139	16.248	710.67203	-98.4	-2.6	-92.3	81.6	4.99370	0.885	-90.5	66.6	39.1	27.7	27.5	0.	1-2
3	-0.854	15.894	706.34026	-100.7	-2.7	-92.1	80.8	4.96235	0.893	-89.7	66.3	39.9	26.7	26.3	13.76552	2-3
4	-0.862	16.638	716.75242	-99.9	-2.8	-92.1	81.1	5.03553	0.874	-89.7	67.0	38.3	29.0	28.7	22.54412	3-4
5	-1.478	16.606	715.34126	-95.9	-2.5	-92.6	82.5	5.02543	0.877	-91.6	67.0	38.3	28.7	28.7	18.66653	4-5
6	-1.461	15.863	704.97927	-96.4	-2.4	-92.6	82.3	4.95267	0.896	-91.5	66.3	39.9	26.4	26.3	22.48593	5-6
7	-0.854	15.894	706.34026	-100.7	-2.7	-92.1	80.8	4.96235	0.893	-89.7	66.3	39.9	26.7	26.3	18.39351	6-7

RA-VIII CAMERA P1

7

FEB. 20,1965 4 HR 51 MIN 56 SEC 703 MS

TAB NO 25

POD SEQUENCE NO 1251

TRAJECTORY DATA

PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	ALT	LAT	LONG	R	V	PTH	AZ
1	-0.951	16.673	679.53733	-98.7	-2.7	-92.4	81.3	4.77492	0.882	-90.5	67.1	39.1	28.2	27.9
2	-0.679	16.334	675.33920	-100.9	-2.8	-92.2	80.5	4.74456	0.890	-89.7	66.7	39.9	27.2	26.7
3	-0.686	17.048	685.47862	-100.1	-2.9	-92.1	80.8	4.81582	0.871	-89.7	67.5	38.3	29.5	29.1
4	-1.274	17.016	684.04823	-96.3	-2.6	-92.7	82.2	4.80559	0.873	-91.6	67.4	38.3	29.2	29.1
5	-1.259	16.304	673.96020	-96.8	-2.5	-92.7	81.9	4.73476	0.892	-91.5	66.7	39.9	26.9	26.8
6	-0.679	16.334	675.33920	-100.9	-2.8	-92.2	80.5	4.74456	0.890	-89.7	66.7	39.9	27.2	26.7

FEB. 20,1965 9 HR 52 MIN 13 SEC 503 MS

TAB NO 26

POD SEQUENCE NO 1271

TRAJECTORY DATA

PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	ALT	LAT	LONG	R	V	PTH	AZ
1	-0.762	17.097	648.25552	-99.0	-2.8	-92.4	81.0	4.55511	0.878	-90.5	67.5	39.1	28.6	28.4
2	-0.502	16.773	644.19676	-101.2	-2.9	-92.2	80.3	4.52576	0.886	-89.7	67.2	39.9	27.7	27.2
3	-0.509	17.457	654.04568	-100.4	-3.0	-92.2	80.5	4.59499	0.867	-89.7	67.9	38.3	29.9	29.5
4	-1.071	17.425	652.60311	-96.7	-2.7	-92.7	81.8	4.58468	0.870	-91.5	67.8	38.3	29.6	29.5
5	-1.056	16.743	642.80650	-97.2	-2.6	-92.7	81.6	4.51589	0.889	-91.5	67.1	39.9	27.3	27.2
6	-0.502	16.773	644.19676	-101.2	-2.9	-92.2	80.3	4.52576	0.886	-89.7	67.2	39.9	27.7	27.2

FEB. 20,1965 9 HR 52 MIN 30 SEC 303 MS

TAB NO 27

POD SEQUENCE NO 1291

TRAJECTORY DATA

PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	ALT	LAT	LONG	R	V	PTH	AZ
1	-0.574	17.520	616.80771	-99.3	-2.9	-92.5	80.7	4.33414	0.874	-90.5	67.9	39.1	29.1	28.8
2	-0.327	17.210	612.89480	-101.4	-3.0	-92.2	80.0	4.30585	0.882	-89.7	67.6	39.9	28.1	27.6
3	-0.332	17.866	622.43400	-100.7	-3.1	-92.2	80.7	4.37290	0.863	-89.7	68.3	38.3	30.4	29.9
4	-0.867	17.833	620.98615	-97.1	-2.8	-92.8	81.5	4.36256	0.866	-91.5	68.2	38.3	30.0	29.7
5	-0.853	17.181	611.49995	-97.6	-2.7	-92.8	81.2	4.29595	0.885	-91.5	67.6	39.9	27.8	27.7
6	-0.327	17.210	612.89480	-101.4	-3.0	-92.2	80.0	4.30585	0.882	-89.7	67.6	39.9	28.1	27.6

FEB. 20,1965 9 HR 52 MIN 47 SEC 103 MS

TAB NO 28

POD SEQUENCE NO 1311

TRAJECTORY DATA

PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	ALT	LAT	LONG	R	V	PTH	AZ
1	-0.391	17.938	585.13749	-99.6	-3.0	-92.5	80.4	4.11160	0.870	-90.5	68.4	39.1	29.5	29.2
2	-0.156	17.643	581.37643	-101.6	-3.0	-92.3	79.7	4.08442	0.878	-89.7	68.1	39.9	28.6	28.1
3	-0.161	18.266	590.58208	-100.9	-3.2	-92.2	80.0	4.14912	0.859	-89.7	68.7	38.3	30.8	30.3
4	-0.669	18.235	589.14201	-97.4	-2.9	-92.9	81.2	4.13884	0.862	-91.5	68.7	38.3	30.4	30.3
5	-0.656	17.614	579.98953	-97.9	-2.8	-92.9	80.9	4.07458	0.881	-91.5	68.0	39.9	28.2	28.1
6	-0.156	17.643	581.37643	-101.6	-3.0	-92.3	79.7	4.08442	0.878	-89.7	68.1	39.9	28.6	28.1

RA-VIII CAMERA P1

8

FEB. 20,1965 4 HR 53 MIN 3 SEC 904 MS

TAB NO 29

POD SEQUENCE NO 1331

TRAJECTORY DATA

PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	ALT	LAT	LONG	R	V	PTH	AZ
1	-0.209	18.355	553.30607	-99.9	-3.1	-92.6	80.1	3.88793	0.867	-90.5	68.8	39.1	29.9	29.6
2	-0.013	18.076	549.70173	-101.8	-3.1	-92.3	79.5	3.86189	0.874	-89.7	68.5	39.9	29.0	28.5
3	-0.008	18.667	558.55668	-101.1	-3.2	-92.3	79.7	3.92413	0.856	-89.7	69.1	38.3	31.2	30.7
4	-0.472	18.637	557.13262	-97.7	-3.0	-92.9	80.9	3.91397	0.859	-91.5	69.1	38.3	30.9	30.7
5	-0.460	18.048	548.33070	-98.2	-2.9	-92.9	80.7	3.85217	0.877	-91.5	68.5	39.9	28.7	28.5
6	-0.013	18.076	549.70173	-101.8	-3.1	-92.3	79.5	3.86189	0.874	-89.7	68.5	39.9	29.0	28.5

FEB. 20,1965 4 HR 53 MIN 20 SEC 704 MS

TAB NO 30

POD SEQUENCE NO 1351

TRAJECTORY DATA

PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	ALT	LAT	LONG	R	V	PTH	AZ
1	-0.027	18.771	521.29521	-100.1	-3.2	-92.6	79.9	3.68300	0.863	-90.5	69.2	39.1	30.4	30.0
2	-0.182	18.508	517.85374	-102.0	-3.2	-92.3	79.3	3.63814	0.871	-89.7	69.0	39.9	29.5	28.9
3	-0.178	19.067	526.33929	-101.3	-3.3	-92.3	79.5	3.69779	0.852	-89.7	69.5	38.3	31.6	31.1
4	-0.275	19.038	524.93848	-98.0	-3.1	-93.0	80.6	3.67779	0.855	-91.5	69.5	38.3	31.3	31.1
5	-0.264	18.480	516.50552	-98.5	-3.0	-93.0	80.4	3.62859	0.874	-91.5	68.9	39.9	29.1	29.0
6	-0.182	18.508	517.85374	-102.0	-3.2	-92.3	79.3	3.63814	0.871	-89.7	69.0	39.9	29.5	28.9

FEB. 20,1965 9 HR 53 MIN 37 SEC 504 MS

TAB NO 31

POD SEQUENCE NO 1371

TRAJECTORY DATA

PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	ALT	LAT	LONG	R	V	PTH	AZ
1	0.154	19.185	499.08254	-100.3	-3.3	-92.7	79.7	3.43665	0.859	-90.5	69.6	39.1	31.3	30.9
2	0.350	19.366	453.58870	-102.4	-3.4	-92.4	78.9	3.41302	0.867	-89.7	69.4	39.9	30.0	29.4
3	0.346	19.465	493.90664	-101.5	-3.4	-92.4	79.3	3.46993	0.848	-89.7	69.9	38.3	32.0	31.5
4	-0.078	19.436	492.53615	-98.3	-3.2	-93.1	80.3	3.46016	0.851	-91.6	69.9	38.3	31.7	31.5
5	-0.068	18.911	484.49237	-98.8	-3.1	-93.1	80.1	3.40369	0.870	-91.5	69.4	39.9	29.6	29.4
6	0.350	18.937	495.81097	-102.2	-3.3	-92.4	79.1	3.41302	0.867	-89.7	69.4	39.9	30.0	29.4

FEB. 20,1965 9 HR 53 MIN 54 SEC 304 MS

TAB NO 32

POD SEQUENCE NO 1391

TRAJECTORY DATA

PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	ALT	LAT	LONG	R	V	PTH	AZ
1	0.337	19.598	436.68332	-100.6	-3.4	-92.7	79.4	3.20899	0.855	-90.5	70.1	39.1	31.3	30.9
2	0.519	19.366	453.58870	-102.4	-3.4	-92.4	78.9	3.18665	0.863	-89.7	69.8	39.9	30.4	29.8
3	0.517	19.861	461.27582	-101.7	-3.5	-92.4	79.1	3.24068	0.844	-89.7	70.3	38.3	32.5	31.9
4	0.120	19.833	459.94087	-98.6	-3.3	-93.1	80.0	3.23117	0.847	-91.6	70.3	38.3	32.1	31.9
5	0.129	19.340	452.30465	-99.2	-3.2	-93.1	79.8	3.17756	0.866	-91.5	69.8	39.9	30.0	29.8
6	0.519	19.366	453.58870	-102.4	-3.4	-92.4	78.9	3.18665	0.863	-89.7	69.8	39.9	30.4	29.8

RA-VIII CAMERA P1

9

FEB. 20, 1965 9 HR 54 MIN 11 SEC 104 MS

TAB NO 33

POD SEQUENCE NO 1411

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
PHOTO DATA										205.651	372.59250	-0.391	14.009	2108.092	2.457	-48.528	73.891
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	0.519	20.006	424.01756	-100.8	-3.5	-92.8	79.2	2.97945	0.851	-90.5	70.5	39.1	31.7	31.3	0.	1-2	
3	0.688	19.790	421.10883	-102.6	-3.5	-92.4	78.7	2.95846	0.859	-89.7	70.3	39.9	30.9	30.2	8.31800	2-3	
4	0.686	20.251	428.36187	-101.9	-3.7	-92.4	78.8	3.00945	0.840	-89.7	70.7	38.3	32.9	32.3	13.96655	3-4	
5	0.318	20.224	427.07091	-98.9	-3.4	-93.2	79.7	3.00025	0.843	-91.6	70.7	38.3	32.5	32.3	11.19280	4-5	
6	0.326	19.765	419.86742	-99.5	-3.3	-93.2	79.5	2.94968	0.862	-91.5	70.2	39.9	30.5	30.3	13.91015	5-6	
7	0.688	19.790	421.10883	-102.6	-3.5	-92.4	78.7	2.95846	0.859	-89.7	70.3	39.9	30.9	30.2	11.00048	6-7	

FEB. 20, 1965 9 HR 54 MIN 27 SEC 905 MS

TAB NO 34

POD SEQUENCE NO 1431

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
PHOTO DATA										188.851	341.68805	-0.182	14.734	2077.188	2.471	-48.060	73.889
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	0.700	20.413	391.13887	-101.1	-3.6	-92.8	78.9	2.74842	0.847	-90.6	70.9	39.1	32.1	31.7	0.	1-2	
3	0.856	20.213	388.42208	-102.8	-3.6	-92.5	78.4	2.72882	0.855	-89.7	70.7	39.9	31.3	30.6	7.68453	2-3	
4	0.854	20.640	395.22165	-102.1	-3.8	-92.5	78.6	2.77662	0.836	-89.7	71.1	38.3	33.3	32.7	12.94095	3-4	
5	0.514	20.614	393.98280	-99.2	-3.6	-93.3	79.4	2.76780	0.839	-91.6	71.1	38.3	33.0	32.7	10.33187	4-5	
6	0.522	20.189	387.23108	-99.8	-3.4	-93.2	79.3	2.72040	0.858	-91.5	70.7	39.9	30.9	30.7	12.88654	5-6	
7	0.856	20.213	388.42208	-102.8	-3.6	-92.5	78.4	2.72882	0.855	-89.7	70.7	39.9	31.3	30.6	10.15131	6-7	

FEB. 20, 1965 9 HR 54 MIN 44 SEC 705 MS

TAB NO 35

POD SEQUENCE NO 1451

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
PHOTO DATA										172.051	310.83588	0.034	15.480	2046.336	2.485	-47.579	73.890
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	0.881	20.815	357.99212	-101.3	-3.7	-92.9	78.7	2.51551	0.843	-90.6	71.3	39.1	32.6	32.1	0.	1-2	
3	1.024	20.631	355.47531	-103.0	-3.7	-92.5	78.2	2.49736	0.850	-89.7	71.1	39.9	31.8	31.1	7.04382	2-3	
4	1.022	21.024	361.79742	-102.3	-3.9	-92.5	78.4	2.54180	0.832	-89.7	71.5	38.3	33.7	33.1	11.89692	3-4	
5	0.711	21.000	360.61947	-99.5	-3.7	-93.3	79.2	2.53341	0.835	-91.6	71.5	38.3	33.4	33.1	9.46288	4-5	
6	0.874	20.609	354.34315	-100.2	-3.6	-93.3	79.0	2.48935	0.854	-91.5	71.1	39.9	31.4	31.1	11.84486	5-6	
7	1.024	20.631	355.47531	-103.0	-3.7	-92.5	78.2	2.49736	0.850	-89.7	71.1	39.9	31.8	31.1	9.29475	6-7	

FEB. 20, 1965 9 HR 54 MIN 53 SEC 105 MS

TAB NO 36

POD SEQUENCE NO 1461

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
PHOTO DATA										163.651	295.43164	0.144	15.862	2030.932	2.493	-47.333	73.891
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	0.971	21.014	341.31798	-101.4	-3.8	-92.9	78.6	2.39835	0.841	-90.6	71.5	39.1	32.8	32.3	0.	1-2	
3	1.107	20.839	338.90421	-103.1	-3.8	-92.5	78.1	2.38094	0.848	-89.7	71.3	39.9	32.0	31.3	6.72069	2-3	
4	1.106	21.215	344.97878	-102.4	-3.9	-92.5	78.3	2.42364	0.830	-89.7	71.7	38.3	33.9	33.3	11.36802	3-4	
5	0.809	21.191	343.83437	-99.7	-3.8	-93.4	79.0	2.41549	0.833	-91.6	71.7	38.3	33.6	33.3	9.02538	4-5	
6	0.815	20.817	337.80439	-100.2	-3.6	-93.3	78.9	2.37316	0.852	-91.5	71.3	39.9	31.6	31.3	11.31732	5-6	
7	1.107	20.839	338.90421	-103.1	-3.8	-92.5	78.1	2.38094	0.848	-89.7	71.3	39.9	32.0	31.3	8.86370	6-7	

RA-VIII CAMERA P1

10

FEB. 20, 1965 9 HR 55 MIN 1 SEC 505 MS

TAB NO 37

POD SEQUENCE NO 1471

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
PHOTO DATA										155.250	280.04337	0.256	16.249	2015.543	2.500	-47.084	73.893
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	1.062	21.214	324.58357	-101.6	-3.8	-92.9	78.4	2.28076	0.839	-90.6	71.7	39.1	33.0	32.5	0.	1-2	
3	1.192	21.047	322.27518	-103.2	-3.8	-92.5	78.0	2.26411	0.846	-89.7	71.5	39.9	32.2	31.5	6.39574	2-3	
4	1.190	21.405	328.09691	-102.5	-4.0	-92.5	78.2	2.30504	0.828	-89.7	71.9	38.3	34.1	33.5	10.83498	3-4	
5	0.908	21.381	326.98668	-99.8	-3.8	-93.4	78.9	2.29713	0.831	-91.6	71.9	38.3	33.8	33.5	8.58623	4-5	
6	0.914	21.025	321.20835	-100.4	-3.7	-93.4	78.7	2.25657	0.850	-91.5	71.5	39.9	31.8	31.5	10.78567	5-6	
7	1.192	21.047	322.27518	-103.2	-3.8	-92.5	78.0	2.26411	0.846	-89.7	71.5	39.9	32.2	31.5	8.43115	6-7	

FEB. 20, 1965 9 HR 55 MIN 4 SEC 905 MS

TAB NO 38

POD SEQUENCE NO 1481

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
PHOTO DATA										146.850	264.67204	0.369	16.643	2000.172	2.508	-46.832	73.896
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	1.153	21.412	307.77794	-101.7	-3.9	-92.9	78.3	2.16267	0.837	-90.6	71.9	39.1	33.2	32.7	0.	1-2	
3	1.275	21.253	305.57681	-103.3	-3.9	-92.5	77.9	2.14680	0.844	-89.7	71.7	39.9	32.4	31.7	6.06892	2-3	
4	1.274	21.593	311.13971	-102.6	-4.1	-92.5	78.1	2.18591	0.826	-89.7	72.1	38.3	34.3	33.6	10.29715	3-4	
5	1.006	21.571	310.06617	-100.0	-3.9	-93.4	78.7	2.17826	0.830	-91.6	72.1	38.3	34.0	33.7	8.14490	4-5	
6	1.012	21.233	304.54531	-100.5	-3.8	-93.4	78.6	2.13951	0.848	-91.5	71.7	39.9	32.0	31.7	10.24936	5-6	
7	1.275	21.253	305.57681	-103.3	-3.9	-92.5	77.9	2.14680	0.844	-89.7	71.7	39.9	32.4	31.7	7.99658	6-7	

FEB. 20, 1965 9 HR 55 MIN 18 SEC 305 MS

TAB NO 39

POD SEQUENCE NO 1491

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
PHOTO DATA										138.450	249.31870	0.485	17.043	1984.819	2.515	-46.576	73.900
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	1.243	21.609	290.89884	-101.8	-4.0	-93.0	78.2	2.04407	0.835	-90.6	72.1	39.1	33.6	32.9	0.	1-2	
3	1.359	21.459	288.80685	-103.4	-4.0	-92.5	77.8	2.02898	0.842	-89.7	72.0	39.9	32.6	31.9	5.74020	2-3	
4	1.358	21.781	294.10494	-102.7	-4.1	-92.6	77.9	2.06623	0.824	-89.7	72.3	38.3	34.5	33.8	9.75445	3-4	
5	1.105	21.759	293.07056	-100.1	-4.0	-93.4	78.6	2.05887	0.828	-91.6	72.2	38.3	34.2	33.9	7.70132	4-5	
6	1.110	21.439	287.81310	-100.7	-3.8	-93.4	78.4	2.02196	0.846	-91.5	71.9	39.9	32.3	31.9	9.70828	5-6	
7	1.359	21.459	288.80685	-103.4	-4.0	-92.5	77.8	2.02898	0.842	-89.7	72.0	39.9	32.6	31.9	7.55995	6-7	

FEB. 20, 1965 9 HR 55 MIN 26 SEC 705 MS

TAB NO 40

POD SEQUENCE NO 1501

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
PHOTO DATA										130.050	233.98436	0.602	17.449	1969.484	2.523	-46.316	73.905
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	1.333	21.804	273.94391	-102.0	-4.0	-93.0	78.0	1.92493	0.833	-90.6	72.3	39.1	33.6	33.1	0.	1-2	
3	1.442	21.663	271.96302	-103.5	-4.0	-92.6	77.7	1.91065	0.840	-89.7	72.2	39.9	32.9	32.1	5.40949	2-3	
4	1.441	21.967	276.99016	-102.8	-4.2	-92.6	77.8	1.94599	0.822	-89.7	72.5	38.3	34.7	34.0	9.20671	3-4	
5	1.203	21.947	275.99745	-100.3	-4.0	-93.5	78.4	1.90391	0.844	-91.5	72.4	38.3	34.4	34.1	7.25543	4-5	
6	1.208	21.644	271.00939	-100.8	-3.9	-93.4	78.3	1.91065	0.840	-89.7	72.1	39.9	32.5	32.1	9.16231	5-6	
7	1.442	21.663	271.96302	-103.5	-4.0	-92.6	77.7	1.91065	0.840	-89.7	72.2	39.9	32.9	32.1	7.12117	6-7	

RA-VIII CAMERA P1

11

FEB. 20, 1965 9 HR 55 MIN 35 SEC 105 MS TAB NO 41 ATLAS PHOTO NO 4 POD SEQUENCE NO 1511

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				121.650		218.67021	0.721	17.861	1954.170	2.530	-46.052	73.910				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.422	21.999	256.91103	-102.1	-4.1	-93.0	77.9	1.80524	0.831	-90.6	72.5	39.1	33.8	33.3	0.	1-2
3	1.525	21.867	255.04317	-103.6	-4.1	-92.6	77.6	1.79178	0.838	-89.7	72.4	39.9	33.1	32.3	5.07679	2-3
4	1.524	22.152	259.79317	-103.0	-4.3	-92.6	77.7	1.82517	0.820	-89.7	72.7	38.3	34.9	34.2	8.45384	3-4
5	1.300	22.133	258.84468	-100.4	-4.1	-93.5	78.3	1.81842	0.824	-91.6	72.6	38.3	34.6	34.2	6.80715	4-5
6	1.305	21.848	254.13210	-101.0	-4.0	-93.5	78.2	1.78534	0.842	-91.6	72.3	39.9	32.7	32.4	8.61131	5-6
7	1.525	21.867	255.04317	-103.6	-4.1	-92.6	77.6	1.79178	0.838	-89.7	72.4	39.9	33.1	32.3	6.68019	6-7

FEB. 20, 1965 9 HR 55 MIN 43 SEC 505 MS TAB NO 42 POD SEQUENCE NO 1521

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				113.250		203.37762	0.842	18.280	1938.878	2.538	-45.785	73.917				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.511	22.193	239.79625	-102.2	-4.2	-93.0	77.8	1.68498	0.829	-90.6	72.7	39.1	34.0	33.5	0.	1-2
3	1.606	22.069	238.04281	-103.7	-4.2	-92.6	77.5	1.67234	0.836	-89.7	72.6	39.9	33.3	32.5	4.74220	2-3
4	1.606	22.336	242.50950	-103.0	-4.3	-92.6	77.6	1.70374	0.818	-89.7	72.8	38.3	35.1	34.4	8.09572	3-4
5	1.397	22.317	241.60900	-100.6	-4.2	-93.5	78.2	1.69734	0.822	-91.6	72.8	38.3	34.8	34.4	6.35621	4-5
6	1.401	22.051	237.17793	-101.1	-4.0	-93.5	78.0	1.66624	0.840	-91.6	72.6	39.9	32.9	32.6	8.05524	5-6
7	1.606	22.069	238.04281	-103.7	-4.2	-92.6	77.5	1.67234	0.836	-89.7	72.6	39.9	33.3	32.5	6.23672	6-7

FEB. 20, 1965 9 HR 55 MIN 51 SEC 906 MS TAB NO 43 POD SEQUENCE NO 1531

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				104.850		188.10754	0.964	18.705	1923.608	2.546	-45.513	73.924				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.599	22.385	222.59876	-102.3	-4.2	-93.0	77.7	1.56414	0.827	-90.6	72.9	39.1	34.2	33.7	0.	1-2
3	1.688	22.270	220.96170	-103.8	-4.2	-92.6	77.4	1.55234	0.834	-89.8	72.8	39.9	33.5	32.7	4.40548	2-3
4	1.687	22.518	225.13875	-103.1	-4.4	-92.6	77.5	1.58171	0.816	-89.7	73.0	38.3	35.3	34.6	7.53223	3-4
5	1.493	22.501	224.28895	-100.7	-4.2	-93.5	78.1	1.57566	0.820	-91.6	73.0	38.3	35.0	34.6	5.90271	4-5
6	1.497	22.253	220.14557	-101.2	-4.1	-93.5	77.9	1.54658	0.838	-91.6	72.8	39.9	33.1	32.8	7.49397	5-6
7	1.688	22.270	220.96170	-103.8	-4.2	-92.6	77.4	1.55234	0.834	-89.8	72.8	39.9	33.5	32.7	5.79088	6-7

FEB. 20, 1965 9 HR 56 MIN 0 SEC 306 MS TAB NO 44 POD SEQUENCE NO 1541

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				96.450		172.86140	1.089	19.138	1908.361	2.554	-45.238	73.933				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.686	22.576	205.31624	-102.4	-4.3	-93.0	77.6	1.44270	0.825	-90.6	73.1	39.1	34.4	33.9	0.	1-2
3	1.768	22.469	203.79777	-103.8	-4.3	-92.6	77.3	1.43176	0.832	-89.8	73.0	39.9	33.7	32.9	4.06655	2-3
4	1.768	22.699	207.67870	-103.2	-4.4	-92.6	77.4	1.45904	0.814	-89.7	73.2	38.3	35.5	34.8	6.96323	3-4
5	1.589	22.683	206.88198	-100.8	-4.3	-93.6	77.9	1.45337	0.818	-91.6	73.2	38.3	35.2	34.8	2.44664	4-5
6	1.593	22.454	203.03266	-101.4	-4.2	-93.5	77.8	1.42636	0.835	-91.6	73.0	39.9	33.4	33.0	6.92727	5-6
7	1.768	22.469	203.79777	-103.8	-4.3	-92.6	77.3	1.43176	0.832	-89.8	73.0	39.9	33.7	32.9	5.34265	6-7

RA-VIII CAMERA P1

12

FEB. 20, 1965 9 HR 56 MIN 8 SEC 706 MS TAB NO 45 POD SEQUENCE NO 1551

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				88.050		157.64052	1.215	19.577	1893.141	2.562	-44.958	73.942				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.774	22.765	187.94630	-102.5	-4.4	-93.0	77.5	1.32065	0.823	-90.6	73.3	39.1	34.6	34.1	0.	1-2
3	1.849	22.668	186.54841	-103.9	-4.3	-92.6	77.2	1.31057	0.830	-89.8	73.2	39.9	33.9	33.1	3.72540	2-3
4	1.848	22.879	190.12675	-103.3	-4.5	-92.6	77.3	1.33573	0.812	-89.8	73.4	38.3	35.7	34.9	6.38863	3-4
5	1.684	22.863	189.43883	-101.0	-4.4	-93.6	77.8	1.33046	0.816	-91.6	73.4	38.3	35.4	35.0	4.98787	4-5
6	1.688	22.653	185.83693	-101.5	-4.2	-93.5	77.7	1.30555	0.833	-91.6	73.2	39.9	33.6	33.2	6.35513	5-6
7	1.849	22.668	186.54841	-103.9	-4.3	-92.6	77.2	1.31057	0.830	-89.8	73.2	39.9	33.9	33.1	4.89191	6-7

FEB. 20, 1965 9 HR 56 MIN 12 SEC 906 MS TAB NO 46 POD SEQUENCE NO 1556

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				83.850		150.04022	1.279	19.800	1885.540	2.566	-44.817	73.948				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.817	22.859	177.22722	-102.6	-4.4	-93.1	77.4	1.25938	0.822	-90.6	73.4	39.1	34.7	34.2	0.	1-2
3	1.888	22.766	177.89027	-104.0	-4.3	-92.6	77.2	1.24975	0.829	-89.8	73.3	39.9	34.0	33.2	3.55400	2-3
4	1.888	22.968	181.31485	-103.3	-4.5	-92.6	77.3	1.27382	0.811	-89.8	73.5	38.3	35.8	35.0	6.09917	3-4
5	1.732	22.953	180.60312	-101.0	-4.4	-93.6	77.8	1.26876	0.815	-91.6	73.5	38.3	35.4	35.1	4.75740	4-5
6	1.735	22.753	177.20885	-101.5	-4.2	-93.5	77.6	1.24492	0.832	-91.6	73.3	39.9	33.7	33.3	6.06694	5-6
7	1.888	22.766	177.89027	-104.0	-4.3	-92.6	77.2	1.24975	0.829	-89.8	73.3	39.9	34.0	33.2	4.66553	6-7

FEB. 20, 1965 9 HR 56 MIN 17 SEC 106 MS TAB NO 47 POD SEQUENCE NO 1561

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				79.650		142.44640	1.344	20.024	1877.946	2.570	-44.675	73.953				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.860	22.953	170.48518	-102.6	-4.4	-93.1	77.4	1.19795	0.821	-90.6	73.5	39.1	34.8	34.3	0.	1-2
3	1.928	22.865	169.20974	-104.0	-4.4	-92.6	77.1	1.18876	0.828	-89.8	73.4	39.9	34.1	33.3	3.38203	2-3
4	1.928	23.056	172.47890	-103.4	-4.5	-92.6	77.2	1.21175	0.810	-89.8	73.6	38.3	35.9	35.1	5.80826	3-4
5	1.779	23.042	171.79696	-101.1	-4.4	-93.6	77.7	1.20690	0.814	-91.6	73.6	38.3	35.5	35.2	4.52623	4-5
6	1.782	22.851	168.55495	-101.6	-4.3	-93.6	77.6	1.18414	0.831	-91.6	73.4	39.9	33.8	33.4	5.77736	5-6
7	1.928	22.865	169.20974	-104.0	-4.4	-92.6	77.1	1.18876	0.828	-89.8	73.4	39.9	34.1	33.3	4.43850	6-7

FEB. 20, 1965 9 HR 56 MIN 21 SEC 306 MS TAB NO 48 POD SEQUENCE NO 1566

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				75.450		134.85980	1.409	20.250	1870.360	2.574	-44.531	73.959				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.903	23.047	161.72062	-102.6	-4.4	-93.1	77.4	1.13637	0.820	-90.6	73.6	39.1	34.9	34.3	0.	

RA-VIII CAMERA P1

13

FEB. 20, 1965 9 HR 56 MIN 25 SEC 536 MS

TAB NO 49

POD SEQUENCE NO 1571

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ	
										71.249	127.28024	1.474	20.478	1862.780	2.579	-44.387	73.965	
PHOTO DATA																		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT		
2	1.946	23.140	152.93383	-102.7	-4.5	-93.1	77.3	1.07462	0.819	-90.6	73.7	39.1	35.0	34.4	0.	1-2		
3	2.007	23.060	151.78325	-104.1	-4.4	-92.6	77.0	1.06633	0.826	-89.8	73.6	39.9	34.4	33.5	3.03622	2-3		
4	2.007	23.233	154.73665	-103.5	-4.6	-92.6	77.1	1.08710	0.808	-89.8	73.8	38.3	36.1	35.3	5.22212	3-4		
5	1.874	23.220	154.11570	-101.2	-4.5	-93.6	77.6	1.08268	0.812	-91.6	73.7	38.3	35.7	35.4	4.06190	4-5		
6	1.876	23.048	151.18705	-101.7	-4.3	-93.6	77.5	1.06213	0.829	-91.6	73.6	39.9	34.0	33.6	5.19394	5-6		
7	2.007	23.060	151.78325	-104.1	-4.4	-92.6	77.0	1.06633	0.826	-89.8	73.6	39.9	34.4	33.5	3.98759	6-7		

FEB. 20, 1965 9 HR 56 MIN 26 SEC 346 MS

TAB NO 50

ATLAS PHOTO NO 5

POD SEQUENCE NO 1572

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ	
										70.409	125.76532	1.488	20.524	1861.265	2.579	-44.358	73.966	
PHOTO DATA																		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT		
2	1.955	23.158	151.17382	-102.7	-4.5	-93.1	77.3	1.06226	0.819	-90.6	73.7	39.1	35.1	34.5	0.	1-2		
3	2.015	23.079	150.03585	-104.1	-4.4	-92.6	77.0	1.05406	0.826	-89.8	73.6	39.9	34.4	33.5	3.00151	2-3		
4	2.015	23.250	152.95732	-103.5	-4.6	-92.6	77.1	1.07460	0.808	-89.8	73.8	38.3	36.1	35.3	5.16318	3-4		
5	1.883	23.237	152.34257	-101.2	-4.5	-93.6	77.6	1.07023	0.812	-91.6	73.8	38.3	35.8	35.4	4.01533	4-5		
6	1.886	23.068	149.44559	-101.7	-4.3	-93.6	77.5	1.04989	0.829	-91.6	73.6	39.9	34.0	33.6	5.13529	5-6		
7	2.015	23.079	150.03585	-104.1	-4.4	-92.6	77.0	1.05406	0.826	-89.8	73.6	39.9	34.4	33.5	3.93687	6-7		

FEB. 20, 1965 9 HR 56 MIN 29 SEC 706 MS

TAB NO 51

POD SEQUENCE NO 1576

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										67.049	119.70833	1.540	20.708	1855.208	2.583	-44.241	73.971
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	1.990	23.232	144.12390	-102.8	-4.5	-93.1	77.2	1.01272	0.818	-90.6	73.8	39.1	35.1	34.5	0.	1-2	
3	2.047	23.157	143.03665	-104.1	-4.5	-92.6	77.0	1.00489	0.825	-89.8	73.7	39.9	34.5	33.6	2.86241	2-3	
4	2.047	23.320	145.82971	-103.5	-4.6	-92.6	77.1	1.02452	0.807	-89.8	73.8	38.3	36.2	35.4	4.92688	3-4	
5	1.921	23.308	145.23997	-101.3	-4.5	-93.6	77.5	1.02033	0.811	-91.6	73.8	38.3	35.8	35.4	3.82873	4-5	
6	1.924	23.146	142.47045	-101.8	-4.4	-93.6	77.4	1.00089	0.828	-91.6	73.7	39.9	34.1	33.7	4.90007	5-6	
7	2.047	23.157	143.03665	-104.1	-4.5	-92.6	77.0	1.00489	0.825	-89.8	73.7	39.9	34.5	33.6	3.75369	6-7	

FEB. 20, 1965 9 HR 56 MIN 31 SEC 906 MS

TAB NO 52

POD SEQUENCE NO 1581

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										62.849	112.14377	1.607	20.940	1847.644	2.587	-44.094	73.978
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.033	23.325	135.28978	-102.8	-4.5	-93.1	77.2	0.95064	0.817	-90.6	73.9	39.1	35.2	34.6	0.	1-2	
3	2.087	23.254	134.26642	-104.1	-4.5	-92.6	77.0	0.94327	0.824	-89.8	73.8	39.9	34.6	33.7	2.68798	2-3	
4	2.087	23.407	136.89743	-103.5	-4.7	-92.6	77.1	0.96177	0.806	-89.8	73.9	38.3	36.3	35.5	4.63013	3-4	
5	1.969	23.395	136.33957	-101.3	-4.6	-93.6	77.5	0.95780	0.810	-91.6	73.9	38.3	35.9	35.5	3.59481	4-5	
6	1.971	23.243	133.73080	-101.8	-4.4	-93.6	77.4	0.93949	0.827	-91.6	73.8	39.9	34.2	33.8	4.60477	5-6	
7	2.087	23.254	134.26642	-104.1	-4.5	-92.6	77.0	0.94327	0.824	-89.8	73.8	39.9	34.6	33.7	3.52410	6-7	

RA-VIII CAMERA P1

14

FEB. 20, 1965 9 HR 56 MIN 38 SEC 106 MS

TAB NO 53

POD SEQUENCE NO 1586

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										58.649	104.58731	1.674	21.173	1840.087	2.591	-43.947	73.985
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.076	23.416	126.43211	-102.8	-4.6	-93.1	77.2	0.88840	0.816	-90.6	73.9	39.1	35.3	34.7	0.	1-2	
3	2.126	23.350	125.47308	-104.2	-4.5	-92.6	76.9	0.88149	0.823	-89.8	73.9	39.9	34.7	33.8	2.51298	2-3	
4	2.126	23.494	127.94043	-103.6	-4.7	-92.6	77.0	0.89884	0.805	-89.8	74.0	38.3	36.4	35.6	4.33190	3-4	
5	2.016	23.483	127.41528	-101.4	-4.6	-93.7	77.4	0.89511	0.809	-91.6	74.0	38.3	36.0	35.6	3.36015	4-5	
6	2.018	23.340	124.96889	-101.9	-4.4	-93.6	77.3	0.87794	0.826	-91.6	73.9	39.9	34.3	33.9	4.30801	5-6	
7	2.126	23.350	125.47308	-104.2	-4.5	-92.6	76.9	0.88149	0.823	-89.8	73.9	39.9	34.7	33.8	3.29382	6-7	

FEB. 20, 1965 9 HR 56 MIN 42 SEC 306 MS

TAB NO 54

POD SEQUENCE NO 1591

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										54.449	97.03853	1.742	21.409	1832.539	2.595	-43.798	73.993
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.119	23.508	117.55007	-102.9	-4.6	-93.1	77.1	0.82599	0.815	-90.6	74.0	39.1	35.4	34.8	0.	1-2	
3	2.165	23.447	116.65572	-104.2	-4.5	-92.6	76.9	0.81955	0.822	-89.8	74.0	39.9	34.8	33.9	2.33745	2-3	
4	2.165	23.580	118.95783	-103.6	-4.7	-92.6	77.0	0.83574	0.804	-89.8	74.1	38.3	36.5	35.7	4.03223	3-4	
5	2.063	23.570	118.46635	-101.4	-4.6	-93.7	77.4	0.83224	0.808	-91.6	74.1	38.3	36.1	35.7	3.12470	4-5	
6	2.065	23.437	116.18387	-101.9	-4.5	-93.6	77.3	0.81622	0.825	-91.6	74.0	39.9	34.4	34.0	4.00984	5-6	
7	2.165	23.447	116.65572	-104.2	-4.5	-92.6	76.9	0.81955	0.822	-89.8	74.0	39.9	34.8	33.9	3.06278	6-7	

FEB. 20, 1965 9 HR 56 MIN 46 SEC 506 MS

TAB NO 55

POD SEQUENCE NO 1596

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										50.249	89.49812	1.810	21.646	1824.998	2.600	-43.648	74.000
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.161	23.599	108.64306	-102.9	-4.6	-93.1	77.1	0.76340	0.814	-90.6	74.1	39.1	35.4	34.9	0.	1-2	
3	2.205	23.542	107.81405	-104.2	-4.6	-92.6	76.9	0.75743	0.821	-89.8	74.1	39.9	34.9	34.0	2.16125	2-3	
4	2.205	23.666	109.94917	-103.6	-4.7	-92.6	76.9	0.77245	0.803	-89.8	74.2	38.3	36.6	35.7	3.73099	3-4	
5	2.110	23.456	109.49195	-101.5	-4.7	-93.7	77.3	0.76919	0.807	-91.6	74.2	38.3	36.2	35.8	2.88850	4-5	
6	2.111	23.533	107.37507	-102.0	-4.5	-93.6	77.2	0.75434	0.824	-91.6	74.1	39.9	34.5	34.1	3.71015	5-6	
7	2.205	23.542	107.81405	-104.2	-4.6	-92.6	76.9	0.75743	0.821	-89.8	74.1	39.9	34.9	34.0	2.83106	6-7	

FEB. 20, 1965 9 HR 56 MIN 50 SEC 706 MS

TAB NO 56

POD SEQUENCE NO 1601

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ

RA-VIII CAMERA P1

15

FEB. 20, 1965 9 HR 56 MIN 54 SEC 906 MS

TAB NO 57

POD SEQUENCE NO 1606

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ	
										41.849	74.44272	1.947	22.127	1809.943	2.608	-43.344	74.017	
PHOTO DATA																		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT		
2	2.247	23.780	90.75226	-103.0	-4.7	-93.1	77.0	0.63769	0.812	-90.6	74.3	39.1	35.7	35.1	0.	1-2		
3	2.283	23.732	90.05577	-104.3	-4.6	-92.6	76.8	0.63267	0.819	-89.8	74.3	39.9	35.1	34.2	1.80685	2-3		
4	2.283	23.835	91.85167	-103.7	-4.8	-92.6	76.9	0.64530	0.802	-89.8	74.4	38.3	36.7	35.9	3.12374	3-4		
5	2.203	23.827	91.46457	-101.6	-4.7	-93.7	77.2	0.64255	0.805	-91.6	74.4	38.3	36.4	36.0	2.41381	4-5		
6	2.205	23.725	89.68413	-102.1	-4.5	-93.6	77.1	0.63005	0.822	-91.6	74.3	39.9	34.7	34.3	3.10609	5-6		
7	2.283	23.732	90.05577	-104.3	-4.6	-92.6	76.8	0.63267	0.819	-89.8	74.3	39.9	35.1	34.2	2.36546	6-7		

FEB. 20, 1965 9 HR 56 MIN 59 SEC 106 MS

TAB NO 58

POD SEQUENCE NO 1611

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										37.649	66.92802	2.017	22.371	1802.428	2.613	-43.190	74.026
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.289	23.869	81.76751	-103.0	-4.7	-93.1	77.0	0.57456	0.811	-90.6	74.4	39.1	35.8	35.2	0.	1-2	
3	2.322	23.827	81.13829	-104.3	-4.6	-92.6	76.7	0.57003	0.818	-89.8	74.4	39.9	35.2	34.3	1.62861	2-3	
4	2.322	23.920	82.76191	-103.7	-4.8	-92.6	76.8	0.58144	0.801	-89.8	74.5	38.3	36.8	36.0	2.81768	3-4	
5	2.250	23.912	82.41065	-101.7	-4.7	-93.7	77.2	0.57894	0.804	-91.6	74.5	38.3	36.5	36.1	2.17530	4-5	
6	2.252	23.820	80.80107	-102.1	-4.6	-93.6	77.1	0.56765	0.821	-91.6	74.4	39.9	34.8	34.4	2.80163	5-6	
7	2.322	23.827	81.13829	-104.3	-4.6	-92.6	76.7	0.57003	0.818	-89.8	74.4	39.9	35.2	34.3	2.13157	6-7	

FEB. 20, 1965 9 HR 57 MIN 3 SEC 306 MS

TAB NO 59

POD SEQUENCE NO 1616

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										33.449	59.42256	2.087	22.617	1794.923	2.617	-43.036	74.035
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.332	23.959	72.75646	-103.1	-4.7	-93.1	76.9	0.51124	0.810	-90.6	74.5	39.1	35.9	35.3	0.	1-2	
3	2.361	23.920	72.19503	-104.3	-4.7	-92.6	76.7	0.50720	0.817	-89.8	74.5	39.9	35.3	34.4	1.44971	2-3	
4	2.361	24.001	73.64462	-103.8	-4.8	-92.6	76.7	0.51739	0.800	-89.8	74.5	38.3	36.9	36.1	2.51001	3-4	
5	2.297	23.997	73.32988	-101.7	-4.8	-93.7	77.1	0.51515	0.803	-91.6	74.5	38.3	36.6	36.1	1.93598	4-5	
6	2.298	23.914	71.89288	-102.2	-4.6	-93.6	77.0	0.50507	0.820	-91.6	74.5	39.9	34.9	34.5	2.49562	5-6	
7	2.361	23.920	72.19503	-104.3	-4.7	-92.6	76.7	0.50720	0.817	-89.8	74.5	39.9	35.3	34.4	1.89693	6-7	

FEB. 20, 1965 9 HR 57 MIN 7 SEC 506 MS

TAB NO 60

POD SEQUENCE NO 1621

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										29.249	51.92621	2.158	22.865	1787.426	2.621	-42.880	74.044
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.374	24.047	63.71800	-103.1	-4.7	-93.1	76.9	0.44773	0.809	-90.6	74.6	39.1	36.0	35.4	0.	1-2	
3	2.400	24.014	63.22500	-104.4	-4.7	-92.6	76.7	0.44418	0.815	-89.8	74.6	39.9	35.4	34.5	1.27011	2-3	
4	2.400	24.086	64.49876	-103.8	-4.9	-92.6	76.8	0.45313	0.799	-89.8	74.6	38.3	37.0	36.2	2.20065	3-4	
5	2.344	24.081	64.22123	-101.8	-4.8	-93.7	77.1	0.45116	0.802	-91.6	74.6	38.3	36.7	36.2	1.62584	4-5	
6	2.345	24.008	62.95858	-102.3	-4.6	-93.6	77.0	0.44230	0.819	-91.6	74.6	39.9	35.0	34.6	2.18797	5-6	
7	2.400	24.014	63.22500	-104.4	-4.7	-92.6	76.7	0.44418	0.815	-89.8	74.6	39.9	35.4	34.5	1.66151	6-7	

RA-VIII CAMERA P1

16

FEB. 20, 1965 9 HR 57 MIN 11 SEC 706 MS

TAB NO 61

POD SEQUENCE NO 1626

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										25.049	44.43953	2.230	23.114	1779.940	2.626	-42.722	74.054
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.416	24.135	54.65143	-103.2	-4.8	-93.1	76.8	0.38402	0.808	-90.6	74.7	39.1	36.1	35.5	0.	1-2	
3	2.438	24.107	54.22746	-104.4	-4.7	-92.6	76.6	0.38097	0.815	-89.8	74.7	39.9	35.5	34.6	1.08982	2-3	
4	2.438	24.169	55.32354	-103.8	-4.9	-92.6	76.7	0.38867	0.798	-89.8	74.7	38.3	37.1	36.3	1.88963	3-4	
5	2.390	24.164	55.08392	-101.8	-4.8	-93.7	77.0	0.38697	0.801	-91.6	74.7	38.3	36.8	36.3	1.45484	4-5	
6	2.391	24.102	53.99741	-102.3	-4.7	-93.6	77.0	0.37935	0.818	-91.6	74.6	39.9	35.1	34.6	1.87865	5-6	
7	2.438	24.107	54.22746	-104.4	-4.7	-92.6	76.6	0.38097	0.815	-89.8	74.7	39.9	35.5	34.6	1.42529	6-7	

FEB. 20, 1965 9 HR 57 MIN 15 SEC 907 MS

TAB NO 62

POD SEQUENCE NO 1631

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										20.849	36.96254	2.302	23.366	1772.463	2.630	-42.564	74.065
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.459	24.223	45.55758	-103.2	-4.8	-93.1	76.8	0.32012	0.807	-90.6	74.8	39.1	36.2	35.5	0.	1-2	
3	2.477	24.199	45.20321	-104.4	-4.7	-92.6	76.6	0.31757	0.814	-89.8	74.8	39.9	35.6	34.7	0.90884	2-3	
4	2.477	24.251	46.11991	-103.9	-4.9	-92.6	76.7	0.32401	0.797	-89.8	74.8	38.3	37.2	36.3	1.57693	3-4	
5	2.437	24.247	45.91886	-101.9	-4.9	-93.7	77.0	0.32259	0.800	-91.7	74.8	38.3	36.8	36.4	1.21301	4-5	
6	2.438	24.195	45.01020	-102.4	-4.7	-93.6	76.9	0.31621	0.817	-91.6	74.7	39.9	35.2	34.7	1.56773	5-6	
7	2.477	24.199	45.20321	-104.4	-4.7	-92.6	76.6	0.31757	0.814	-89.8	74.8	39.9	35.6	34.7	1.18828	6-7	

FEB. 20, 1965 9 HR 57 MIN 20 SEC 107 MS

TAB NO 63

POD SEQUENCE NO 1636

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										16.649	29.49561	2.374	23.621	1764.996	2.635	-42.404	74.075
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.501	24.310	36.43622	-103.3	-4.8	-93.1	76.7	0.25603	0.806	-90.6	74.9	39.1	36.3	35.6	0.	1-2	
3	2.515	24.291	36.15207	-104.5	-4.8	-92.6	76.6	0.25398	0.813	-89.8	74.8	39.9	35.7	34.8	0.72715	2-3	
4	2.515	24.333	36.88759	-103.9	-4.9	-92.6	76.6	0.25915	0.796	-89.8	74.9	38.3	37.3	36.4	1.26260	3-4	
5	2.484	24.329	36.72576	-101.9	-4.9	-93.7	76.9	0.25800	0.800	-91.7	74.9	38.3	36.9	36.5	0.97034	4-5	
6	2.484	24.288	35.99671	-102.4	-4.7	-93.7	76.9	0.25289	0.816	-91.6	74.8	39.9	35.3	34.8	1.25518	5-6	
7	2.515	24.291	36.15207	-104.5	-4.8	-92.6	76.6	0.25398	0.813	-89.8	74.8	39.9	35.7	34.8	0.95050	6-7	

FEB. 20, 1965 9 HR 57 MIN 24 SEC 307 MS

TAB NO 64

ATLAS PHOTO NO 6

POD SEQUENCE NO 1641

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										12.449	22.03873	2.447	23.877	1757			

RA-VIII CAMERA P1

17

FEB. 20, 1965 9 HR 57 MIN 25 SEC 147 MS

TAB NO 65

ATLAS PHOTO NO 7

POD SEQUENCE NO 1642

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										11.609	20.54869	2.462	23.929	1756.049	2.640	-42.211	74.089
PHOTO DATA																	
PT	LAT	LOX	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.551	24.414	25.45328	-103.3	-4.9	-93.1	76.7	0.17885	0.805	-90.6	75.0	39.1	36.4	35.7	0.	1-2	
3	2.561	24.400	25.25419	-104.5	-4.8	-92.6	76.5	0.17742	0.811	-89.8	75.0	39.9	35.8	34.9	0.50820	2-3	
4	2.561	24.430	25.76996	-104.0	-5.0	-92.6	76.6	0.18105	0.795	-89.8	75.0	38.3	37.4	36.5	0.88316	3-4	
5	2.539	24.427	25.65600	-102.0	-4.9	-93.7	76.9	0.18024	0.798	-91.7	75.0	38.3	37.0	36.6	0.67803	4-5	
6	2.540	24.398	25.14477	-102.5	-4.8	-93.7	76.8	0.17665	0.815	-91.6	75.0	39.9	35.4	34.9	0.87795	5-6	
7	2.561	24.400	25.25419	-104.5	-4.8	-92.6	76.5	0.17742	0.811	-89.8	75.0	39.9	35.8	34.9	0.66411	6-7	

FEB. 20, 1965 9 HR 57 MIN 25 SEC 987 MS

TAB NO 66

ATLAS PHOTO NO 8

POD SEQUENCE NO 1643

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										10.769	19.05907	2.476	23.980	1754.559	2.641	-42.178	74.091
PHOTO DATA																	
PT	LAT	LOX	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.560	24.431	23.61894	-103.3	-4.9	-93.1	76.7	0.16596	0.805	-90.6	75.0	39.1	36.4	35.8	0.	1-2	
3	2.569	24.419	23.43410	-104.5	-4.8	-92.6	76.5	0.16463	0.811	-89.8	75.0	39.9	35.8	34.9	0.47161	2-3	
4	2.569	24.446	23.91301	-104.0	-5.0	-92.6	76.6	0.16800	0.795	-89.8	75.0	38.3	37.4	36.5	0.81970	3-4	
5	2.548	24.443	23.80712	-102.0	-4.9	-93.7	76.9	0.16725	0.798	-91.7	75.0	38.3	37.1	36.6	0.62919	4-5	
6	2.548	24.417	23.33243	-102.5	-4.8	-93.7	76.8	0.16392	0.815	-91.6	75.0	39.9	35.5	35.0	0.81486	5-6	
7	2.569	24.419	23.43410	-104.5	-4.8	-92.6	76.5	0.16463	0.811	-89.8	75.0	39.9	35.8	34.9	0.61627	6-7	

FEB. 20, 1965 9 HR 57 MIN 26 SEC 827 MS

TAB NO 67

ATLAS PHOTO NO 9

POD SEQUENCE NO 1644

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										9.929	17.56981	2.491	24.032	1753.070	2.642	-42.146	74.093
PHOTO DATA																	
PT	LAT	LOX	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.568	24.448	21.78338	-103.3	-4.9	-93.1	76.7	0.15307	0.804	-90.6	75.0	39.1	36.4	35.8	0.	1-2	
3	2.577	24.437	21.61281	-104.5	-4.8	-92.6	76.5	0.15184	0.811	-89.8	75.0	39.9	35.8	34.9	0.43498	2-3	
4	2.577	24.462	22.05478	-104.0	-5.0	-92.6	76.6	0.15495	0.794	-89.8	75.0	38.3	37.4	36.6	0.75616	3-4	
5	2.558	24.460	21.95696	-102.0	-4.9	-93.7	76.8	0.15425	0.798	-91.7	75.0	38.3	37.1	36.6	0.58032	4-5	
6	2.558	24.435	21.51893	-102.5	-4.8	-93.7	76.8	0.15118	0.815	-91.6	75.0	39.9	35.5	35.0	0.75166	5-6	
7	2.577	24.437	21.61281	-104.5	-4.8	-92.6	76.5	0.15184	0.811	-89.8	75.0	39.9	35.8	34.9	0.56839	6-7	

FEB. 20, 1965 9 HR 57 MIN 27 SEC 667 MS

TAB NO 68

ATLAS PHOTO NO 10

POD SEQUENCE NO 1645

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										9.089	16.08098	2.506	24.084	1751.581	2.643	-42.114	74.096
PHOTO DATA																	
PT	LAT	LOX	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.567	24.465	19.94663	-103.3	-4.9	-93.1	76.7	0.14016	0.804	-90.6	75.0	39.1	36.4	35.8	0.	1-2	
3	2.584	24.455	19.79037	-104.5	-4.8	-92.6	76.5	0.13903	0.811	-89.8	75.0	39.9	35.8	34.9	0.39834	2-3	
4	2.584	24.478	20.19533	-104.0	-5.0	-92.6	76.6	0.14188	0.794	-89.8	75.0	38.3	37.4	36.6	0.69255	3-4	
5	2.567	24.476	20.10567	-102.0	-5.0	-93.7	76.8	0.14124	0.798	-91.7	75.0	38.3	37.1	36.6	0.53141	4-5	
6	2.567	24.453	19.70429	-102.5	-4.8	-93.7	76.8	0.13843	0.814	-91.6	75.0	39.9	35.5	35.0	0.68844	5-6	
7	2.584	24.455	19.79037	-104.5	-4.8	-92.6	76.5	0.13903	0.811	-89.8	75.0	39.9	35.8	34.9	0.52048	6-7	

RA-VIII CAMERA P1

18

FEB. 20, 1965 9 HR 57 MIN 28 SEC 507 MS

TAB NO 69

ATLAS PHOTO NO 11

POD SEQUENCE NO 1646

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										8.249	14.59256	2.521	24.136	1750.093	2.644	-42.081	74.098
PHOTO DATA																	
PT	LAT	LOX	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.585	24.483	18.10874	-103.3	-4.9	-93.1	76.7	0.12725	0.804	-90.6	75.0	39.1	36.4	35.8	0.	1-2	
3	2.592	24.473	17.96679	-104.5	-4.8	-92.6	76.5	0.12622	0.811	-89.8	75.0	39.9	35.9	35.0	0.36167	2-3	
4	2.592	24.494	18.33467	-104.0	-5.0	-92.6	76.6	0.12881	0.794	-89.8	75.1	38.3	37.4	36.6	0.62888	3-4	
5	2.576	24.492	18.25315	-102.0	-5.0	-93.7	76.8	0.12823	0.798	-91.7	75.0	38.3	37.1	36.6	0.48247	4-5	
6	2.577	24.471	17.88855	-102.5	-4.8	-93.7	76.8	0.12567	0.814	-91.6	75.0	39.9	35.5	35.0	0.62514	5-6	
7	2.592	24.473	17.96679	-104.5	-4.8	-92.6	76.5	0.12622	0.811	-89.8	75.0	39.9	35.9	35.0	0.47254	6-7	

FEB. 20, 1965 9 HR 57 MIN 29 SEC 347 MS

TAB NO 70

ATLAS PHOTO NO 12

POD SEQUENCE NO 1647

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										7.409	13.10461	2.536	24.188	1748.605	2.644	-42.048	74.101
PHOTO DATA																	
PT	LAT	LOX	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.593	24.500	16.26979	-103.4	-4.9	-93.1	76.6	0.11432	0.804	-90.6	75.1	39.1	36.5	35.8	0.	1-2	
3	2.600	24.491	16.14220	-104.5	-4.8	-92.6	76.5	0.11340	0.810	-89.8	75.1	39.9	35.9	35.0	0.32496	2-3	
4	2.600	24.510	16.47294	-104.0	-5.0	-92.6	76.6	0.11573	0.794	-89.8	75.1	38.3	37.5	36.6	0.56514	3-4	
5	2.586	24.508	16.39960	-102.0	-5.0	-93.7	76.8	0.11521	0.798	-91.7	75.1	38.3	37.1	36.7	0.43349	4-5	
6	2.586	24.490	16.07180	-102.5	-4.8	-93.7	76.8	0.11291	0.814	-91.6	75.0	39.9	35.5	35.0	0.56178	5-6	
7	2.600	24.491	16.14220	-104.5	-4.8	-92.6	76.5	0.11340	0.810	-89.8	75.0	39.9	35.9	35.0	0.42456	6-7	

FEB. 20, 1965 9 HR 57 MIN 30 SEC 187 MS

TAB NO 71

ATLAS PHOTO NO 13

POD SEQUENCE NO 1648

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										6.569	11.61702	2.550	24.240	1747.117	2.645	-42.016	74.103
PHOTO DATA																	
PT	LAT	LOX	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.602	24.517	14.42955	-103.4	-4.9	-93.1	76.6	0.10139	0.804	-90.6	75.1	39.1	36.5	35.8	0.	1-2	
3	2.607	24.509	14.31635	-104.5	-4.8	-92.6	76.5	0.10058	0.810	-89.8	75.1	39.9	35.9	35.0	0.28823	2-3	
4	2.607	24.526	14.60986	-104.0	-5.0	-92.6	76.6	0.10264	0.794	-89.8	75.1	38.3	37.5	36.6	0.50133	3-4	
5	2.595	24.524	14.54473	-102.1	-5.0	-93.7	76.8	0.10218	0.797	-91.7	75.1	38.3	37.1	36.7	0.38448	4-5	
6	2.595	24.508	14.25384	-102.5	-4.8	-93.7	76.7	0.10014	0.814	-91.6	75.1	39.9	35.5	35.1	0.49834	5-6	
7	2.607	24.509	14.31635	-104.5	-4.8	-92.6	76.5	0.10058	0.810	-89.8	75.1	39.9	35.9	35.0	0.37655	6-7	

FEB. 20, 1965 9 HR 57 MIN 31 SEC 27 MS

TAB NO 72

ATLAS PHOTO NO 14

POD SEQUENCE NO 1649

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										5.729	10.12996	2.565	24.292	1745.630	2.646	-41.983	74.105
PHOTO DATA																	
PT	LAT	LOX	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.610	24.534	12.58828	-103.4	-4.9	-93.1	76.6	0.08845	0.803	-90.6	75.1	39.1	36.5	35.9	0.	1-2	
3	2.615	24.527	12.48947	-104.5	-4.8	-92.6	76.5	0.08774	0.810	-89.8	75.1	39.9	35.9	35.0	0.25147	2-3	
4	2.615	24.542	12.74569	-104.0	-5.0	-92.6	76.5	0.08954	0.794	-89.8	75.1	38.3	37.5	36.6	0.43745	3-4	
5	2.604	24.541	12.68880	-102.1	-5.0	-93.7	76.8	0.08914	0.797	-91.7	75.1	38.3	37.2	36.7	0.33543	4-5	
6	2.604	24.526	12.43487	-102.5	-4.8	-93.7	76.7	0.08736	0.814	-91.6	75.1	39.9	35.6	35.1	0.43483	5-6	
7	2.615	24.527	12.48947	-104.5	-4.8	-92.6	76.5	0.08774	0.810								

RA-VIII CAMERA P1

19

FEB. 20, 1965 9 HR 57 MIN 31 SEC 867 MS

TAB NO 73 ATLAS PHOTO NO 15 POD SEQUENCE NO 1650

TRAJECTORY DATA SEC TO IMPACT 4.889 ALT 8.64325 LAT 2.580 LON 24.344 R 1744.143 V 2.647 PTH -41.950 AZ 74.108

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.618	24.551	10.74576	-103.4	-4.9	-93.1	76.6	0.07551	0.803	-90.6	75.1	39.1	36.6	35.9	0.	1-2
3	2.623	24.545	10.66136	-104.6	-4.8	-92.6	76.5	0.07490	0.810	-89.8	75.1	39.9	35.9	35.0	0.21468	2-3
4	2.623	24.558	10.88022	-104.0	-5.0	-92.6	76.5	0.07644	0.793	-89.8	75.1	38.3	37.5	36.7	0.37351	3-4
5	2.613	24.557	10.83159	-102.1	-5.0	-93.7	76.8	0.07609	0.797	-91.7	75.1	38.3	37.2	36.7	0.28635	4-5
6	2.613	24.544	10.81468	-102.6	-4.8	-93.7	76.7	0.07457	0.813	-91.6	75.1	39.9	35.6	35.1	0.37128	5-6
7	2.623	24.545	10.66136	-104.6	-4.8	-92.6	76.5	0.07490	0.810	-89.8	75.1	39.9	35.9	35.0	0.28044	6-7

FEB. 20, 1965 9 HR 57 MIN 32 SEC 707 MS

TAB NO 74 ATLAS PHOTO NO 16 POD SEQUENCE NO 1651

TRAJECTORY DATA SEC TO IMPACT 4.049 ALT 7.15701 LAT 2.595 LON 24.396 R 1742.657 V 2.648 PTH -41.917 AZ 74.110

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.627	24.568	8.90212	-103.4	-4.9	-93.1	76.6	0.06255	0.803	-90.6	75.1	39.1	36.6	35.9	0.	1-2
3	2.630	24.563	8.83218	-104.6	-4.8	-92.6	76.5	0.06205	0.810	-89.8	75.1	39.9	36.0	35.0	0.17785	2-3
4	2.630	24.574	9.01360	-104.0	-5.0	-92.6	76.5	0.06332	0.793	-89.8	75.1	38.3	37.5	36.7	0.30949	3-4
5	2.623	24.573	8.97326	-102.1	-5.0	-93.7	76.8	0.06304	0.797	-91.7	75.1	38.3	37.2	36.7	0.23723	4-5
6	2.623	24.563	8.79346	-102.6	-4.8	-93.7	76.7	0.06178	0.813	-91.6	75.1	39.9	35.6	35.1	0.30763	5-6
7	2.630	24.563	8.83218	-104.6	-4.8	-92.6	76.5	0.06205	0.810	-89.8	75.1	39.9	36.0	35.0	0.23233	6-7

FEB. 20, 1965 9 HR 57 MIN 33 SEC 547 MS

TAB NO 75 ATLAS PHOTO NO 17 POD SEQUENCE NO 1652

TRAJECTORY DATA SEC TO IMPACT 3.209 ALT 5.67125 LAT 2.610 LON 24.449 R 1741.171 V 2.649 PTH -41.885 AZ 74.113

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.635	24.585	7.05736	-103.4	-4.9	-93.1	76.6	0.04959	0.803	-90.6	75.1	39.1	36.6	35.9	0.	1-2
3	2.638	24.581	7.00190	-104.6	-4.8	-92.6	76.5	0.04919	0.809	-89.8	75.1	39.9	36.0	35.1	0.14101	2-3
4	2.638	24.590	7.14581	-104.0	-5.0	-92.6	76.5	0.05020	0.793	-89.8	75.1	38.3	37.5	36.7	0.24540	3-4
5	2.632	24.589	7.11378	-102.1	-5.0	-93.7	76.8	0.04998	0.797	-91.7	75.1	38.3	37.2	36.7	0.18808	4-5
6	2.632	24.581	6.97115	-102.6	-4.8	-93.7	76.7	0.04897	0.813	-91.6	75.1	39.9	35.6	35.1	0.24394	5-6
7	2.638	24.581	7.00190	-104.6	-4.8	-92.6	76.5	0.04919	0.809	-89.8	75.1	39.9	36.0	35.1	0.18419	6-7

FEB. 20, 1965 9 HR 57 MIN 34 SEC 387 MS

TAB NO 76 ATLAS PHOTO NO 18 POD SEQUENCE NO 1653

TRAJECTORY DATA SEC TO IMPACT 2.369 ALT 4.18585 LAT 2.625 LON 24.501 R 1739.686 V 2.650 PTH -41.852 AZ 74.115

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.643	24.602	5.21139	-103.4	-4.9	-93.1	76.6	0.03662	0.803	-90.6	75.2	39.1	36.6	35.9	0.	1-2
3	2.646	24.599	5.17039	-104.6	-4.8	-92.6	76.4	0.03632	0.809	-89.8	75.2	39.9	36.0	35.1	0.10413	2-3
4	2.646	24.605	5.27675	-104.0	-5.0	-92.6	76.5	0.03707	0.793	-89.8	75.2	38.3	37.6	36.7	0.18127	3-4
5	2.641	24.605	5.25307	-102.1	-5.0	-93.7	76.8	0.03690	0.796	-91.7	75.2	38.3	37.2	36.8	0.13889	4-5
6	2.641	24.599	5.14767	-102.6	-4.8	-93.7	76.7	0.03616	0.813	-91.6	75.2	39.9	35.6	35.1	0.18017	5-6
7	2.646	24.599	5.17039	-104.6	-4.8	-92.6	76.4	0.03632	0.809	-89.8	75.2	39.9	36.0	35.1	0.13601	6-7

RA-VIII CAMERA P1

20

FEB. 20, 1965 9 HR 57 MIN 35 SEC 227 MS

TAB NO 77 ATLAS PHOTO NO 19 POD SEQUENCE NO 1654

TRAJECTORY DATA SEC TO IMPACT 1.529 ALT 2.70097 LAT 2.640 LON 24.554 R 1738.201 V 2.651 PTH -41.819 AZ 74.118

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.652	24.619	3.36426	-103.4	-4.9	-93.1	76.6	0.02364	0.802	-90.6	75.2	39.1	36.6	35.9	0.	1-2
3	2.653	24.617	3.33781	-104.6	-4.9	-92.6	76.4	0.02345	0.809	-89.8	75.2	39.9	36.0	35.1	0.06722	2-3
4	2.653	24.621	3.40648	-104.0	-5.0	-92.6	76.5	0.02393	0.793	-89.8	75.2	38.3	37.6	36.7	0.11703	3-4
5	2.650	24.621	3.39118	-102.1	-5.0	-93.7	76.7	0.02382	0.796	-91.7	75.2	38.3	37.2	36.8	0.08966	4-5
6	2.650	24.617	3.32311	-102.6	-4.8	-93.7	76.7	0.02335	0.813	-91.6	75.2	39.9	35.7	35.2	0.11634	5-6
7	2.653	24.617	3.33781	-104.6	-4.9	-92.6	76.4	0.02345	0.809	-89.8	75.2	39.9	36.0	35.1	0.08781	6-7

FEB. 20, 1965 9 HR 57 MIN 36 SEC 67 MS

TAB NO 78 ATLAS PHOTO NO 20 POD SEQUENCE NO 1655

TRAJECTORY DATA SEC TO IMPACT 0.689 ALT 1.21651 LAT 2.655 LON 24.607 R 1736.717 V 2.652 PTH -41.786 AZ 74.120

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.660	24.636	1.51600	-103.4	-4.9	-93.1	76.6	0.01065	0.802	-90.6	75.2	39.1	36.6	36.0	0.	1-2
3	2.661	24.635	1.50406	-104.6	-4.9	-92.6	76.4	0.01057	0.809	-89.8	75.2	39.9	36.0	35.1	0.03030	2-3
4	2.661	24.637	1.53504	-104.0	-5.0	-92.6	76.5	0.01078	0.792	-89.8	75.2	38.3	37.6	36.7	0.05275	3-4
5	2.659	24.637	1.52813	-102.1	-5.0	-93.7	76.7	0.01073	0.796	-91.7	75.2	38.3	37.3	36.8	0.04041	4-5
6	2.659	24.635	1.49744	-102.6	-4.8	-93.7	76.7	0.01052	0.812	-91.6	75.2	39.9	35.7	35.2	0.05243	5-6
7	2.661	24.635	1.50406	-104.6	-4.9	-92.6	76.4	0.01057	0.809	-89.8	75.2	39.9	36.0	35.1	0.03957	6-7

TIME- AND CAMERA-DEPENDENT PARAMETERS

1

FEB. 20, 1965 9 HR 46 MIN 4 SEC 299 MS

TAB NO 1

POD SEQUENCE NO 831

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				692.457		1271.34549	-4.520	-0.497	3006.845	2.156	-58.169	74.468				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-4.093	7.656	1312.05817	-95.0	-1.9	-90.6	85.0	12.03033	0.946	-89.5	58.0	39.1	18.9	18.9	0.	1-2
3	-3.503	6.842	1305.01111	-99.9	-2.1	-90.8	82.9	11.96258	0.955	-88.6	57.2	40.2	17.2	16.9	30.39174	2-3
4	-3.537	8.526	1321.49533	-98.2	-2.0	-90.7	83.5	12.11372	0.934	-88.5	58.9	38.1	21.0	20.7	50.89715	3-4
5	-4.688	8.486	1320.43791	-90.9	-1.6	-90.5	87.0	12.10399	0.935	-90.4	58.8	38.1	20.8	20.8	34.89028	4-5
6	-4.639	6.802	1303.99017	-91.1	-1.8	-90.5	86.7	11.95325	0.957	-90.4	57.2	40.2	17.0	17.0	50.84927	5-6
7	-3.503	6.842	1305.01111	-99.9	-2.1	-90.8	82.9	11.96258	0.955	-88.6	57.2	40.2	17.2	16.9	34.45469	6-7

FEB. 20, 1965 9 HR 46 MIN 17 SEC 739 MS

TAB NO 2

ATLAS PHOTO NO 1

POD SEQUENCE NO 847

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				679.017		1246.72192	-4.441	-0.213	2982.222	2.162	-57.975	74.447				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.963	8.003	1288.54715	-95.3	-1.9	-90.7	84.7	11.81475	0.944	-89.5	58.4	39.1	19.3	19.2	0.	1-2
3	-3.384	7.203	1281.50609	-100.1	-2.1	-90.9	82.6	11.74712	0.953	-88.6	57.5	40.2	17.6	17.3	29.87384	2-3
4	-3.417	8.959	1298.01785	-98.4	-2.1	-90.8	83.2	11.89850	0.932	-88.5	59.2	38.1	21.3	21.0	50.09196	3-4
5	-4.548	8.820	1296.89204	-91.3	-1.6	-90.6	86.6	11.88815	0.933	-90.4	59.2	38.1	21.1	21.1	34.27208	4-5
6	-4.500	7.253	1274.52377	-91.6	-1.8	-90.6	86.3	11.73719	0.955	-90.4	57.5	40.2	17.3	17.3	50.04070	5-6
7	-3.384	7.203	1281.50609	-100.1	-2.1	-90.9	82.6	11.74712	0.953	-88.6	57.5	40.2	17.6	17.3	33.83551	6-7

FEB. 20, 1965 9 HR 46 MIN 21 SEC 99 MS

TAB NO 3

POD SEQUENCE NO 851

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				675.657		1240.56287	-4.421	-0.142	2976.063	2.163	-57.926	74.442				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.931	8.090	1282.66502	-95.4	-1.9	-90.7	84.6	11.76082	0.943	-89.5	58.3	39.1	19.4	19.3	0.	1-2
3	-3.354	7.293	1275.62605	-100.1	-2.1	-90.9	82.6	11.69322	0.953	-88.6	57.6	40.2	17.7	17.4	29.74425	2-3
4	-3.387	8.942	1292.14308	-98.4	-2.1	-90.8	83.1	11.84465	0.931	-88.5	59.3	38.1	21.4	21.1	49.89028	3-4
5	-4.512	8.903	1291.00061	-91.4	-1.7	-90.6	86.5	11.83415	0.933	-90.4	59.3	38.1	21.2	21.2	34.11735	4-5
6	-4.466	7.253	1274.52377	-91.7	-1.8	-90.6	86.2	11.68314	0.954	-90.4	57.6	40.2	17.4	17.4	49.83814	5-6
7	-3.354	7.293	1275.62605	-100.1	-2.1	-90.9	82.6	11.69322	0.953	-88.6	57.6	40.2	17.7	17.4	33.68072	6-7

FEB. 20, 1965 9 HR 46 MIN 37 SEC 899 MS

TAB NO 4

POD SEQUENCE NO 871

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				658.856		1209.75089	-4.321	0.221	2945.251	2.171	-57.678	74.416				
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.763	8.519	1253.18155	-95.8	-1.9	-90.8	84.2	11.49048	0.941	-89.4	58.9	39.1	19.8	19.7	0.	1-2
3	-3.201	7.738	1246.16588	-100.4	-2.1	-90.9	82.2	11.42316	0.950	-88.5	58.1	40.2	18.2	17.8	29.09213	2-3
4	-3.231	9.354	1262.68802	-98.7	-2.1	-90.9	82.8	11.57465	0.928	-88.5	59.7	38.1	21.8	21.5	48.87399	3-4
5	-4.331	9.315	1261.45763	-91.9	-1.7	-90.7	86.0	11.56333	0.930	-90.4	59.7	38.1	21.6	21.6	33.34210	4-5
6	-4.287	7.700	1244.97949	-92.3	-1.8	-90.8	85.7	11.41232	0.952	-90.4	58.1	40.2	17.9	17.9	48.81742	5-6
7	-3.201	7.738	1246.16588	-100.4	-2.1	-90.9	82.2	11.42316	0.950	-88.5	58.1	40.2	18.2	17.8	32.90514	6-7

RA-VIII CAMERA P2

2

FEB. 20, 1965 9 HR 46 MIN 54 SEC 699 MS

TAB NO 5

POD SEQUENCE NO 891

TRAJECTORY DATA					SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ		
					642.056		1178.91037		-4.218		0.591		2914.410		2.179		-57.425		74.390		
PHOTO DATA																					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT					
2	-3.600	8.943	1223.60257	-96.2	-1.9	-90.9	83.8	11.1927	0.938	-89.4	59.3	39.1	20.2	20.1	0.	1-2					
3	-3.051	8.180	1216.61783	-100.6	-2.1	-91.0	81.9	11.15230	0.948	-88.5	58.5	40.2	18.6	18.2	28.43671	2-3					
4	-3.079	9.762	1233.11919	-98.9	-2.1	-90.9	82.5	11.30360	0.926	-88.5	60.1	38.1	22.3	21.9	47.84809	3-4					
5	-4.154	9.723	1231.81166	-92.4	-1.7	-90.8	85.6	11.29157	0.927	-90.4	60.1	38.1	22.0	22.0	32.56402	4-5					
6	-4.111	8.142	1215.35786	-92.8	-1.8	-90.9	85.2	11.14079	0.950	-90.4	58.5	40.2	18.3	18.3	47.78752	5-6					
7	-3.051	8.180	1216.61783	-100.6	-2.1	-91.0	81.9	11.15230	0.948	-88.5	58.5	40.2	18.6	18.2	32.12736	6-7					

FEB. 20, 1965 9 HR 47 MIN 11 SEC 499 MS

TAB NO 6

POD SEQUENCE NO 911

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		PTH		AZ	
				625.256		1148.04184		-4.112		0.970		2883.542		2.188		-57.167	
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-	
2	-3.432	9.371	1194.00571	-96.6	-2.0	-91.0	83.4	10.94790	0.936	-89.4	59.7	39.1	20.7	20.5	0.	1-2	
3	-2.898	8.625	1187.05788	-100.9	-2.1	-91.1	81.6	10.88133	0.945	-88.5	59.0	40.2	19.1	18.7	27.78015	2-3	
4	-2.924	10.172	1203.52037	-99.2	-2.1	-91.0	82.2	11.03235	0.923	-88.5	60.5	38.1	22.7	22.3	46.82070	3-4	
5	-3.972	10.134	1202.14211	-92.8	-1.7	-90.9	85.2	11.01960	0.925	-90.4	60.5	38.1	22.4	22.4	31.78572	4-5	
6	-3.932	8.587	1185.72285	-93.4	-1.8	-91.0	84.8	10.86913	0.947	-90.4	58.9	40.2	18.8	18.7	46.75597	5-6	
7	-2.898	9.625	1187.05788	-100.9	-2.1	-91.1	81.6	10.88133	0.945	-88.5	59.0	40.2	19.1	18.7	31.34977	6-7	

FEB. 20, 1965 9 HR 47 MIN 28 SEC 300 MS

TAB NO 7

POD SEQUENCE NO 931

TRAJECTORY DATA					SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
					608.456		1117.14633	-4.004	1.356	2852.646	2.196	-56.904	74.33			
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.264	9.802	1164.38356	-96.9	-2.0	-91.1	83.1	10.67629	0.933	-89.4	60.2	39.1	21.0	21.0	0.	1-2
3	-2.744	9.072	1157.47603	-101.1	-2.2	-91.1	81.3	10.61016	0.943	-88.5	59.4	40.2	19.6	19.1	27.12282	2-3
4	-2.767	10.586	1173.90483	-99.5	-2.2	-91.1	81.9	10.76080	0.920	-88.5	60.9	38.1	23.1	22.7	45.79116	3-4
5	-3.790	10.547	1172.44435	-93.3	-1.8	-91.0	84.8	10.74737	0.922	-90.4	60.9	38.1	22.8	22.8	31.00677	4-5
6	-3.752	9.035	1156.07040	-93.9	-1.8	-91.1	84.3	10.59732	0.945	-90.3	59.4	40.2	19.2	19.2	45.72242	5-6
7	-2.744	9.072	1157.47603	-101.1	-2.2	-91.1	81.3	10.61016	0.943	-88.5	59.4	40.2	19.6	19.1	30.57175	6-7

FEB. 20, 1965 9 HR 47 MIN 45 SEC 100 MS

TAB NO 8

POD SEQUENCE NO 951

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
PHOTO DATA										591.656	1088.22492	-3.894	1.731	2821.725	2.205	-56.636	74.313
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-P	
2	-3.096	10.235	1134.73167	-97.3	-2.0	-91.2	82.7	10.40441	0.930	89.6	40.9	21.6	21.4	0	1	-	
3	-2.586	9.911	1137.75185	-97.3	-2.0	-91.2	81.6	10.37775	0.940	-88.2	59.9	40.2	21.4	0	1	-	
4	-2.076	9.611	1140.21268	-99.7	-2.2	-91.1	81.6	10.48890	0.917	-88.2	61.4	38.1	23.5	21.4	0	24.64456	
5	-3.608	10.963	1142.71381	-93.7	-1.8	-91.1	84.4	10.47583	0.919	-90.4	61.3	38.1	23.2	23.2	0	20.22702	
6	-3.572	9.485	1126.39668	-98.8	-1.8	-91.2	88.9	10.32531	0.942	-90.3	59.8	40.2	19.7	20.7	0	14.68435	
7	-3.889	9.107	1088.15	-101.4	-1.9	-91.1	83.0	10.33231	0.916	-90.7	59.8	40.2	19.7	19.6	0	28.73133	

RA-VIII CAMERA P2

3

FEB. 20, 1965 9 HR 48 MIN 1 SEC 900 MS TAB NO 9 POD SEQUENCE NO 971

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				574.855		1055.27835	-3.780	2.154	2790.778	2.213	-56.363	74.288			
PHOTO DATA															
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.928	10.669	1105.03023	-97.6	-2.1	-91.2	82.4	10.13208	0.927	-89.4	61.0	39.1	22.0	21.8	0.
3	-2.435	9.974	1098.21561	-101.6	-2.2	-91.3	80.8	10.06693	0.937	-88.5	60.3	40.2	20.5	20.0	25.80461
4	-2.455	11.418	1114.52260	-99.9	-2.3	-91.2	81.3	10.21646	0.914	-88.4	61.8	38.1	24.0	23.6	43.72203
5	-3.426	11.380	1112.92844	-94.1	-1.9	-91.2	84.0	10.20179	0.916	-90.3	61.7	38.1	23.7	23.6	29.44608
6	-3.392	9.937	1096.68327	-94.8	-1.9	-91.3	83.5	10.05293	0.939	-90.3	60.3	40.2	20.1	20.1	43.64580
7	-2.435	9.974	1098.21561	-101.6	-2.2	-91.3	80.8	10.06693	0.937	-88.5	60.3	40.2	20.5	20.0	29.01364

FEB. 20, 1965 9 HR 48 MIN 18 SEC 700 MS TAB NO 10 POD SEQUENCE NO 991

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				558.055		1024.30798	-3.665	2.567	2759.808	2.222	-56.084	74.263			
PHOTO DATA															
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.759	11.103	1075.26280	-97.9	-2.1	-91.3	82.1	9.85914	0.924	-89.4	61.5	39.1	22.5	22.3	0.
3	-2.280	10.425	1068.50388	-101.8	-2.3	-91.3	80.5	9.79457	0.934	-88.5	60.8	40.2	21.0	20.5	25.14213
4	-2.298	11.835	1084.72429	-100.2	-2.3	-91.2	81.1	9.94331	0.911	-88.4	62.2	38.1	24.4	24.0	42.67859
5	-3.244	11.797	1083.07085	-94.5	-1.9	-91.3	83.6	9.92810	0.913	-90.3	62.2	38.1	24.1	24.0	28.66307
6	-3.212	10.389	1066.91556	-95.3	-1.9	-91.4	83.1	9.78006	0.936	-90.3	60.7	40.2	20.6	20.5	42.59888
7	-2.280	10.425	1068.50388	-101.8	-2.3	-91.3	80.5	9.79457	0.934	-88.5	60.8	40.2	21.0	20.5	28.23260

FEB. 20, 1965 9 HR 48 MIN 35 SEC 500 MS TAB NO 11 POD SEQUENCE NO 1011

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				541.255		993.31500	-3.546	2.989	2728.815	2.231	-55.799	74.238			
PHOTO DATA															
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.588	11.537	1045.43037	-98.2	-2.1	-91.4	81.8	9.58560	0.921	-89.4	61.9	39.1	22.9	22.7	0.
3	-2.123	10.876	1038.73630	-102.0	-2.3	-91.4	80.2	9.52169	0.931	-88.5	61.2	40.2	21.5	20.9	24.47649
4	-2.139	12.251	1054.85201	-100.4	-2.4	-91.3	80.8	9.66948	0.907	-88.4	62.6	38.1	24.9	24.4	41.62856
5	-3.059	12.213	1052.13919	-94.9	-2.0	-91.4	83.2	9.65372	0.910	-90.3	62.6	38.1	24.5	24.5	27.87859
6	-3.028	10.840	1037.09203	-95.7	-2.0	-91.5	82.8	9.50218	0.903	-90.3	61.2	40.2	21.1	21.0	41.54530
7	-2.123	10.876	1038.73630	-102.0	-2.3	-91.4	80.2	9.52169	0.931	-88.5	61.2	40.2	21.5	20.9	27.45060

FEB. 20, 1965 9 HR 48 MIN 52 SEC 301 MS TAB NO 12 POD SEQUENCE NO 1031

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				524.455		962.30066	-3.424	3.420	2697.801	2.241	-55.508	74.214			
PHOTO DATA															
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.416	11.971	1015.52233	-98.6	-2.2	-91.5	81.4	9.31137	0.918	-89.4	62.3	39.1	23.4	23.1	0.
3	-1.964	11.327	1008.90050	-102.2	-2.3	-91.4	80.0	9.24820	0.928	-88.5	61.7	40.2	21.9	21.4	23.80786
4	-1.979	12.667	1024.89252	-100.6	-2.4	-91.3	80.5	9.39485	0.904	-88.4	63.0	38.1	25.3	24.8	40.57101
5	-2.873	12.629	1023.12481	-95.3	-2.0	-91.5	82.8	9.37858	0.907	-90.3	63.0	38.1	25.0	24.9	27.09200
6	-2.844	11.291	1007.20456	-96.1	-2.0	-91.5	82.4	9.23271	0.930	-90.3	61.7	40.2	21.5	21.4	40.48439
7	-1.964	11.327	1008.90050	-102.2	-2.3	-91.4	80.0	9.24820	0.928	-88.5	61.7	40.2	21.9	21.4	26.66690

RA-VIII CAMERA P2

4

FEB. 20, 1965 9 HR 49 MIN 9 SEC 101 MS TAB NO 13 POD SEQUENCE NO 1051

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				507.655		931.26660	-3.299	3.862	2666.767	2.250	-55.212	74.190			
PHOTO DATA															
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.243	12.400	985.48463	-98.9	-2.2	-91.5	81.1	9.03596	0.915	-89.4	62.8	39.1	23.9	23.6	0.
3	-1.806	11.774	978.94559	-102.4	-2.4	-91.5	79.7	8.97361	0.925	-88.5	62.1	40.2	22.4	21.8	23.13409
4	-1.819	13.079	994.78623	-100.9	-2.5	-91.4	80.2	9.11887	0.901	-88.4	63.4	38.1	25.7	25.2	39.50038
5	-2.686	12.213	992.97015	-95.7	-2.1	-91.6	82.5	9.10216	0.904	-90.3	63.4	38.1	25.4	24.8	26.30155
6	-2.659	11.738	977.20426	-96.6	-2.1	-91.6	82.0	8.95770	0.927	-90.3	62.1	40.2	22.0	21.9	39.41069
7	-1.806	11.774	978.94559	-102.4	-2.4	-91.5	79.7	8.97361	0.925	-88.5	62.1	40.2	22.4	21.8	25.88018

FEB. 20, 1965 9 HR 49 MIN 25 SEC 901 MS TAB NO 14 POD SEQUENCE NO 1071

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				490.854		900.21417	-3.172	4.313	2635.714	2.260	-54.908	74.166			
PHOTO DATA															
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.075	12.827	955.33290	-99.2	-2.3	-91.6	80.8	8.75949	0.911	-89.3	63.2	39.1	24.3	24.0	0.
3	-1.652	12.219	948.88260	-102.6	-2.4	-91.5	79.5	8.69803	0.922	-88.5	62.6	40.2	22.9	22.2	22.45686
4	-1.663	13.488	964.54895	-101.1	-2.5	-91.4	80.0	8.84170	0.898	-88.4	63.9	38.1	26.2	25.6	38.41875
5	-2.504	13.450	962.69575	-96.1	-2.1	-91.7	82.1	8.82464	0.900	-90.3	63.8	38.1	25.8	25.7	25.50737
6	-2.479	12.184	947.10668	-96.9	-2.1	-91.7	81.7	8.68181	0.924	-90.3	62.5	40.2	22.5	22.3	38.32652
7	-1.652	12.219	948.88260	-102.6	-2.4	-91.5	79.5	8.69803	0.922	-88.5	62.6	40.2	22.9	22.2	25.09037

FEB. 20, 1965 9 HR 49 MIN 42 SEC 701 MS TAB NO 15 POD SEQUENCE NO 1091

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				474.054		869.14520	-3.041	4.776	2604.645	2.269	-54.599	74.142			
PHOTO DATA															
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-1.905	13.257	925.12281	-99.4	-2.3	-91.6	80.6	8.48250	0.908	-89.3	63.6	39.1	24.7	24.4	0.
3	-1.487	12.688	917.26252	-102.8	-2.5	-91.6	79.3	8.42197	0.918	-88.4	63.0	40.2	23.3	22.7	21.77691
4	-1.505	13.899	934.24557	-101.3	-2.6	-91.5	79.8	8.56391	0.894	-88.4	64.3	38.1	26.6	26.0	37.33140
5	-2.320	13.882	930.83955	-96.4	-2.2	-91.7	81.8	8.54653	0.897	-90.3	64.2	38.1	26.2	26.1	24.71173
6	-2.296	12.631	916.95866	-97.3	-2.2	-91.8	81.4	8.40545	0.921	-90.3	63.0	40.2	22.9	22.8	37.23662
7	-1.495	12.666	918.76791	-102.8	-2.5	-91.6	79.3	8.42197	0.918	-88.4	63.0	40.2	23.3	22.7	24.29930

FEB. 20, 1965 9 HR 49 MIN 43 SEC 541 MS TAB NO 16 ATLAS PHOTO NO 2 POD SEQUENCE NO 1092

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				473.214		867.59128	-3.034	4.799	2603.091	2.270	-54.583	74.141			
PHOTO DATA															
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-1.896	13.278	923.61248	-99.5	-2.3	-91.6	80.5	8.46865	0.908	-89.3	63.7	39.1	24.8	24.4	0.
3	-1.487	12.688	917.26252	-102.8	-2.5	-91.6	79.3	8.40817	0.918	-88.4	63.1	40.2	23.4	22.7	21.74288
4	-1.497	13.919	932.73061	-101.3	-2.6	-91.5	79.8	8.55003	0.894	-88.4	64.3	38.1	26.6	26.0	37.27703
5	-2.310	13.882													

RA-VIII CAMERA P2

FEB. 20, 1965 9 HR 49 MIN 59 SEC 501 MS

TAB NO 17

POD SEQUENCE NO 1111

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				457.254	838.06143	-2.906	5.250	2573.561	2.279	-54.282	74.119				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-1.732	13.686	894.82513	-99.7	-2.4	-91.7	80.3	8.20469	0.905	-89.3	64.1	39.2	25.2	24.8	0.
3	-1.336	13.113	888.57461	-103.0	-2.5	-91.6	79.0	8.14520	0.915	-88.4	63.5	40.2	23.8	23.1	21.09309
4	-1.344	14.309	903.84443	-101.5	-2.6	-91.5	79.5	8.28524	0.891	-88.4	64.7	38.1	27.0	26.4	36.23524
5	-2.133	14.272	901.92087	-96.8	-2.3	-91.8	81.5	8.26753	0.894	-90.3	64.6	38.1	26.7	26.5	23.91380
6	-2.111	13.078	886.73334	-97.7	-2.2	-91.9	81.0	8.12838	0.918	-90.3	63.4	40.2	23.4	23.2	36.13801
7	-1.336	13.113	888.57461	-103.0	-2.5	-91.6	79.0	8.14520	0.915	-88.4	63.5	40.2	23.8	23.1	23.50454

FEB. 20, 1965 9 HR 50 MIN 16 SEC 302 MS

TAB NO 18

POD SEQUENCE NO 1131

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				440.454	806.96478	-2.768	5.735	2542.465	2.290	-53.958	74.097				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-1.561	14.118	864.46288	-100.0	-2.5	-91.7	80.0	7.92630	0.901	-89.3	64.5	39.1	25.6	25.3	0.
3	-1.179	13.563	858.31917	-103.2	-2.6	-91.6	78.8	7.86785	0.912	-88.4	64.0	40.2	24.3	23.6	20.40774
4	-1.186	14.723	873.36786	-101.7	-2.7	-91.5	79.3	8.00587	0.887	-88.4	65.1	38.1	27.5	26.8	35.13350
5	-1.948	14.685	871.41862	-97.2	-2.3	-91.9	81.2	7.98793	0.890	-90.3	65.1	38.1	27.1	26.9	23.11382
6	-1.928	13.528	856.45441	-98.1	-2.3	-91.9	80.7	7.85083	0.915	-90.2	63.9	40.2	23.9	23.7	35.03396
7	-1.179	13.563	858.31917	-103.2	-2.6	-91.6	78.8	7.86785	0.912	-88.4	64.0	40.2	24.3	23.6	22.71196

FEB. 20, 1965 9 HR 50 MIN 33 SEC 102 MS

TAB NO 19

POD SEQUENCE NO 1151

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				423.654	775.85751	-2.627	6.232	2511.358	2.300	-53.627	74.075				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-1.390	14.550	833.99803	-100.3	-2.5	-91.8	79.7	7.64697	0.898	-89.3	64.9	39.1	26.1	25.7	0.
3	-1.022	14.013	827.96809	-103.3	-2.6	-91.7	78.6	7.58963	0.901	-88.4	64.4	40.2	24.8	24.0	19.71855
4	-1.028	15.136	842.77586	-101.9	-2.8	-91.6	79.1	7.72584	0.884	-88.3	65.5	38.1	27.9	27.3	34.02142
5	-1.764	15.099	840.80704	-97.5	-2.4	-92.0	80.9	7.70732	0.887	-90.2	65.5	38.1	27.5	27.3	22.31063
6	-1.745	13.978	826.08569	-98.4	-2.3	-92.0	80.4	7.57245	0.911	-90.2	64.4	40.2	24.3	24.1	33.92028
7	-1.022	14.013	827.96809	-103.3	-2.6	-91.7	78.6	7.58963	0.908	-88.4	64.4	40.2	24.8	24.0	21.91469

FEB. 20, 1965 9 HR 50 MIN 49 SEC 902 MS

TAB NO 20

POD SEQUENCE NO 1171

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				406.853	744.74207	-2.481	6.741	2480.242	2.311	-53.288	74.054				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-1.220	14.980	801.40668	-100.5	-2.7	-91.8	79.5	7.36647	0.894	-89.3	65.4	39.1	26.4	26.1	0.
3	-0.865	14.461	797.49897	-103.5	-2.7	-91.7	78.4	7.31033	0.905	-88.4	64.9	40.2	25.3	24.5	19.02463
4	-0.870	15.547	812.04268	-102.1	-2.8	-91.6	78.9	7.44372	0.880	-88.3	65.9	38.1	28.4	27.7	32.89720
5	-1.579	15.510	810.06057	-97.8	-2.5	-92.0	80.6	7.42547	0.883	-90.2	65.9	38.1	28.0	27.8	21.50362
6	-1.561	14.427	795.60490	-98.7	-2.4	-92.1	80.1	7.29304	0.908	-90.2	64.8	40.2	24.8	24.6	32.79458
7	-0.865	14.461	797.49897	-103.5	-2.7	-91.7	78.4	7.31033	0.905	-88.4	64.9	40.2	25.3	24.5	21.11424

RA-VIII CAMERA P2

6

FEB. 20, 1965 9 HR 51 MIN 6 SEC 702 MS

TAB NO 21

POD SEQUENCE NO 1191

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				390.053	713.62073	-2.332	7.264	2449.121	2.321	-52.942	74.036				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-1.050	15.402	772.59807	-100.8	-2.7	-91.9	79.2	7.08399	0.891	-89.3	65.8	39.2	27.0	26.5	0.
3	-0.710	14.902	766.82726	-103.7	-2.8	-91.7	78.2	7.02917	0.901	-88.4	65.3	40.2	25.7	24.9	18.32220
4	-0.713	15.951	781.07039	-102.3	-2.9	-91.6	78.6	7.15981	0.877	-88.3	66.4	38.1	28.8	28.1	31.75141
5	-1.395	15.914	779.08201	-98.1	-2.6	-92.1	80.3	7.14150	0.880	-90.2	66.3	38.1	28.4	28.1	20.69004
6	-1.379	14.869	764.92815	-99.0	-2.5	-92.1	79.8	7.01184	0.905	-90.2	65.3	40.2	25.3	25.0	31.64771
7	-0.710	14.902	766.82726	-103.7	-2.8	-91.7	78.2	7.02917	0.901	-88.4	65.3	40.2	25.7	24.9	20.30827

FEB. 20, 1965 9 HR 51 MIN 12 SEC 592 MS

TAB NO 22

ATLAS PHOTO NO 3

POD SEQUENCE NO 1198

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				384.173	702.72720	-2.279	7.450	2438.227	2.325	-52.819	74.027				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-0.989	15.552	761.82443	-100.9	-2.7	-91.9	79.1	6.98519	0.890	-89.3	66.0	39.2	27.2	26.7	0.
3	-0.654	15.059	756.09954	-103.7	-2.8	-91.7	78.1	6.93083	0.900	-88.4	65.5	40.2	25.9	25.1	18.07660
4	-0.657	16.094	770.23792	-102.3	-2.9	-91.6	78.6	7.06051	0.875	-88.3	66.5	38.1	28.9	28.2	31.35126
5	-1.330	16.057	768.24702	-98.2	-2.6	-92.1	80.2	7.04218	0.879	-90.2	66.4	38.1	28.5	28.3	20.40563
6	-1.314	15.025	754.19839	-99.2	-2.5	-92.1	79.7	6.91348	0.903	-90.2	65.4	40.2	25.4	25.2	31.24713
7	-0.654	15.059	756.09954	-103.7	-2.8	-91.7	78.1	6.93083	0.900	-88.4	65.5	40.2	25.9	25.1	20.02655

FEB. 20, 1965 9 HR 51 MIN 23 SEC 502 MS

TAB NO 23

POD SEQUENCE NO 1211

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				373.253	682.49622	-2.179	7.800	2417.996	2.333	-52.587	74.015				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-0.877	15.831	741.76466	-101.0	-2.7	-91.9	79.0	6.80128	0.887	-89.3	66.2	39.2	27.5	27.0	0.
3	-0.551	15.350	736.13325	-103.8	-2.8	-91.7	78.0	6.74781	0.898	-88.4	65.8	40.2	26.2	25.4	17.61887
4	-0.553	16.360	750.06937	-102.5	-3.0	-91.7	78.4	6.87563	0.873	-88.3	66.8	38.1	29.2	28.5	30.60365
5	-1.209	16.323	748.07657	-98.4	-2.7	-92.1	80.0	6.85728	0.876	-90.2	66.7	38.1	28.8	28.6	18.87983
6	-1.194	15.316	734.23093	-99.4	-2.5	-92.2	79.6	6.73044	0.891	-90.2	65.7	40.2	25.7	25.5	30.49891
7	-0.551	15.350	736.13325	-103.8	-2.8	-91.7	78.0	6.74781	0.899	-88.4	65.8	40.2	26.2	25.4	19.30197

FEB. 20, 1965 9 HR 51 MIN 40 SEC 303 MS

TAB NO 24

POD SEQUENCE NO 1231

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				356.453	651.37146	-2.021	8.349	2386.871	2.344	-52.224	73.996				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-0.708	16.258	710.77043	-101.2	-2.8	-92.0	78.8	6.51709	0.884	-89.3	66.7	39.2	27.9	27.4	0.
3	-0.395	15.795	705.28629	-104.0	-2.9	-91.8	77.8	6.46504	0.894	-88.4	66.2	40.2	26.7	25.8	16.91003
4	-0.397	16.767	718.88993	-102.6	-3.1	-91.7	78.2	6.58982	0.869	-88.3	67.2	38.1	29.7	28.9	29.44062

RA-VIII CAMERA P2

7

FEB. 20, 1965 9 HR 51 MIN 57 SEC 103 MS

TAB NO 25

POD SEQUENCE NO 1251

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
				339.653		620.24976	-1.859	8.914	2355.750	2.355	-51.852	73.979		
PHOTO DATA						A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA							
2	-0.538	16.684	679.64229	-101.5	-2.9	-92.0	78.5	6.23167	0.880	-89.3	67.1	39.1	28.4	27.8
3	-0.240	16.240	674.31405	-104.1	-3.0	-91.8	77.6	6.18113	0.890	-88.4	66.7	40.2	27.1	26.3
4	-0.240	17.173	687.56328	-102.8	-3.1	-91.7	78.0	6.30266	0.865	-88.3	67.6	38.1	30.1	29.3
5	-0.841	17.137	685.58630	-99.0	-2.8	-92.3	79.4	6.28446	0.869	-90.2	67.5	38.1	29.7	29.4
6	-0.829	16.208	672.42875	-100.0	-2.7	-92.3	79.0	6.16392	0.894	-90.2	66.6	40.2	26.7	26.3
7	-0.240	16.240	674.31405	-104.1	-3.0	-91.8	77.6	6.18113	0.890	-88.4	66.7	40.2	27.1	26.3

FEB. 20, 1965 9 HR 52 MIN 13 SEC 903 MS

TAB NO 26

POD SEQUENCE NO 1271

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
				322.852		589.13440	-1.693	9.493	2324.634	2.367	-51.471	73.962		
PHOTO DATA						A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA							
2	-0.368	17.109	648.36472	-101.7	-3.0	-92.0	78.3	5.94489	0.876	-89.2	67.5	39.1	28.8	28.3
3	-0.083	16.684	643.20075	-104.3	-3.0	-91.8	77.4	5.89592	0.886	-88.3	67.1	40.2	27.6	26.7
4	-0.083	17.578	656.07249	-103.0	-3.2	-91.7	77.8	6.01399	0.862	-88.3	68.0	38.1	30.5	29.7
5	-0.657	17.543	654.11231	-99.3	-2.9	-92.3	79.2	5.99594	0.865	-90.2	68.0	38.1	30.1	29.8
6	-0.646	16.652	641.33245	-100.3	-2.8	-92.3	78.8	5.87887	0.890	-90.2	67.1	40.2	27.2	26.8
7	-0.083	16.684	643.20075	-104.3	-3.0	-91.8	77.4	5.89592	0.886	-88.3	67.1	40.2	27.6	26.7

FEB. 20, 1965 9 HR 52 MIN 30 SEC 703 MS

TAB NO 27

POD SEQUENCE NO 1291

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
				306.052		558.02911	-1.522	10.088	2293.529	2.379	-51.081	73.947		
PHOTO DATA						A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA							
2	-0.198	17.532	616.91374	-101.9	-3.1	-92.1	78.1	5.65651	0.872	-89.2	68.0	39.1	29.3	28.7
3	0.072	17.127	611.92345	-104.4	-3.1	-91.8	77.2	5.60921	0.882	-88.3	67.6	40.2	28.1	27.1
4	0.073	17.981	624.39188	-103.2	-3.3	-91.7	77.6	5.72358	0.858	-88.3	68.4	38.1	31.0	30.1
5	-0.473	17.946	622.45564	-99.6	-3.0	-92.4	78.9	5.70576	0.862	-90.2	68.4	38.1	30.5	30.2
6	-0.463	17.095	610.07882	-100.5	-2.9	-92.4	78.5	5.59238	0.886	-90.2	67.5	40.2	27.6	27.2
7	0.072	17.127	611.92345	-104.4	-3.1	-91.8	77.2	5.60921	0.882	-88.3	67.6	40.2	28.1	27.1

FEB. 20, 1965 9 HR 52 MIN 47 SEC 503 MS

TAB NO 28

POD SEQUENCE NO 1311

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
				289.252		526.93799	-1.346	10.699	2262.438	2.392	-50.681	73.934		
PHOTO DATA						A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA							
2	-0.034	17.950	585.23334	-102.1	-3.2	-92.1	77.9	5.36603	0.868	-89.2	68.4	39.2	29.7	29.1
3	0.222	17.565	580.42599	-104.5	-3.2	-91.8	77.1	5.32049	0.879	-88.3	68.0	40.2	28.5	27.6
4	0.223	18.378	592.45967	-103.3	-3.4	-91.8	77.5	5.43087	0.854	-88.3	68.8	38.1	31.4	30.5
5	-0.295	18.344	590.56031	-99.9	-3.1	-92.4	78.7	5.41338	0.858	-90.2	68.8	38.1	31.0	30.6
6	-0.286	17.534	578.61729	-100.8	-2.9	-92.4	78.3	5.30398	0.882	-90.2	68.0	40.2	28.1	27.7
7	-0.222	17.565	580.42599	-104.5	-3.2	-91.8	77.1	5.32049	0.879	-88.3	68.0	40.2	28.5	27.6

RA-VIII CAMERA P2

8

FEB. 20, 1965 9 HR 53 MIN 4 SEC 304 MS

TAB NO 29

POD SEQUENCE NO 1331

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
				272.452		495.86511	-1.165	11.328	2231.365	2.404	-50.270	73.921		
PHOTO DATA						A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA							
2	0.129	18.368	553.38796	-102.3	-3.2	-92.1	77.7	5.07404	0.865	-89.2	68.8	39.2	30.2	29.5
3	0.371	18.003	548.77090	-104.6	-3.3	-91.8	77.0	5.03032	0.875	-88.3	68.5	40.2	29.0	28.0
4	0.373	18.775	560.34736	-103.5	-3.5	-91.8	77.3	5.13651	0.850	-88.3	69.2	38.1	31.8	30.9
5	-0.118	18.742	558.49287	-100.1	-3.2	-92.5	78.4	5.11943	0.854	-90.2	69.2	38.1	31.4	31.0
6	-0.109	17.973	547.00574	-101.0	-3.0	-92.5	78.1	5.01421	0.879	-90.2	68.4	40.2	28.5	28.1
7	0.371	18.003	548.77090	-104.6	-3.3	-91.8	77.0	5.03032	0.875	-88.3	68.5	40.2	29.0	28.0

FEB. 20, 1965 9 HR 53 MIN 21 SEC 104 MS

TAB NO 30

POD SEQUENCE NO 1351

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
				255.652		464.81534	-0.979	11.974	2200.315	2.417	-49.849	73.911		
PHOTO DATA						A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA							
2	0.291	18.785	512.35788	-102.5	-3.3	-92.2	77.5	4.78036	0.861	-89.2	69.2	39.2	30.6	29.9
3	0.519	18.439	516.94016	-104.7	-3.4	-91.9	76.8	4.73854	0.871	-88.4	68.9	40.2	29.5	28.5
4	0.521	19.170	528.03455	-103.6	-3.6	-91.8	77.2	4.84031	0.846	-88.3	69.6	38.1	32.2	31.3
5	0.059	19.138	526.23195	-100.3	-3.3	-92.5	78.2	4.82371	0.850	-90.2	69.6	38.1	31.8	31.4
6	0.067	18.410	515.22510	-101.2	-3.1	-92.5	77.9	4.72289	0.875	-90.2	68.9	40.2	29.0	28.6
7	0.519	18.439	516.94016	-104.7	-3.4	-91.9	76.8	4.73854	0.871	-88.4	69.3	40.2	29.5	28.5

FEB. 20, 1965 9 HR 53 MIN 37 SEC 904 MS

TAB NO 31

POD SEQUENCE NO 1371

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
				238.851		433.79346	-0.787	12.638	2169.293	2.430	-49.416	73.902		
PHOTO DATA						A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA							
2	0.453	19.199	489.12244	-102.6	-3.4	-92.2	77.4	4.48479	0.857	-89.3	69.7	39.2	31.0	30.3
3	0.607	18.874	484.91419	-104.8	-3.4	-91.9	76.7	4.44497	0.867	-88.4	69.3	40.2	29.9	28.9
4	0.669	19.563	495.49955	-103.7	-3.7	-91.8	77.0	4.54207	0.862	-88.3	70.0	38.1	32.6	31.7
5	0.235	19.531	493.75562	-100.6	-3.4	-92.6	78.0	4.52601	0.846	-90.2	70.0	38.1	32.2	31.8
6	0.242	18.846	483.25562	-101.5	-3.2	-92.6	77.7	4.42984	0.871	-90.2	69.3	40.2	29.5	29.0
7	0.667	18.874	484.91419	-104.8	-3.4	-91.9	76.7	4.44497	0.867	-88.4	69.3	40.2	29.9	28.9

FEB. 20, 1965 9 HR 53 MIN 54 SEC 704 MS

TAB NO 32

POD SEQUENCE NO 1391

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ		
				222.051		402.80511	-0.590	13.322	2138.305	2.444	-48.973	73.896		
PHOTO DATA						A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA							
2	0.616	19.612	456.69491	-102.8	-3.5	-92.2	77.2	4.18746	0.853	-89.3	70.1	39.1	31.5	30.8
3	0.816	19.308	452.70616	-104.9	-3.5	-91.9	76.6	4.14973	0.863	-88.4	69.8	40.2	30.4	29.3
4	0.819	19.954	462.75765	-103.8	-3.8	-91.8	76.9	4.24194	0.838	-88.3	70.4	38.1	33.1	32.1
5	0.413	19.923	461.07734	-100.8	-3.5	-92.6</								

RA-VIII CAMERA P2

9

FEB. 20, 1965 9 HR 54 MIN 11 SEC 504 MS

TAB NO 33

POD SEQUENCE NO 1411

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
										205.251	371.85617	-0.386	14.026	2107.356	2.457	-48.517	73.891		
PHOTO DATA											A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA												
2	0.779	20.020	423.99834	-103.0	-3.6	-92.3	77.0	3.88766	0.849	-89.3	70.5	39.2	31.9	31.2	0.	0.	1-2		
3	0.964	19.737	420.24163	-105.1	-3.6	-91.9	76.4	3.85214	0.859	-88.4	70.2	40.2	30.8	29.8	10.24991	2-3			
4	0.967	20.339	429.72592	-104.0	-3.9	-91.8	76.7	3.93915	0.834	-88.3	70.8	38.1	33.5	32.5	18.24138	3-4			
5	0.590	20.310	428.11752	-101.0	-3.6	-92.6	77.6	3.92433	0.839	-90.2	70.8	38.1	33.0	32.6	11.43724	4-5			
6	0.596	19.711	418.71313	-101.9	-3.4	-92.6	77.3	3.83820	0.863	-90.2	70.2	40.2	30.4	29.9	18.15079	5-6			
7	0.964	19.737	420.24163	-105.1	-3.6	-91.9	76.4	3.85214	0.859	-88.4	70.2	40.2	30.8	29.8	11.17924	6-7			

FEB. 20, 1965 9 HR 54 MIN 28 SEC 305 MS

TAB NO 34

POD SEQUENCE NO 1431

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
										188.451	340.95276	-0.177	14.751	2076.453	2.471	-48.049	73.889		
PHOTO DATA											A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA												
2	0.940	20.427	391.08223	-103.2	-3.7	-92.3	76.8	3.58585	0.845	-89.3	70.9	39.1	38.4	31.6	0.	0.	1-2		
3	1.111	20.165	387.56666	-105.2	-3.7	-91.9	76.3	3.55262	0.855	-88.4	70.6	40.2	31.3	30.2	9.47227	2-3			
4	1.114	20.723	396.45787	-104.1	-4.0	-91.9	76.6	3.63419	0.830	-88.3	71.2	38.1	33.9	32.9	16.90079	3-4			
5	0.767	20.695	394.92928	-101.3	-3.8	-92.7	77.4	3.62011	0.835	-90.2	71.2	38.1	33.5	33.0	10.55760	4-5			
6	0.771	20.140	386.11450	-102.1	-3.5	-92.7	77.1	3.53938	0.859	-90.2	70.6	40.2	30.8	30.3	16.81415	5-6			
7	1.111	20.165	387.56666	-105.2	-3.7	-91.9	76.3	3.55262	0.855	-88.4	70.6	40.2	31.3	30.2	10.31536	6-7			

FEB. 20, 1965 9 HR 54 MIN 45 SEC 105 MS

TAB NO 35

POD SEQUENCE NO 1451

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
										171.651	310.10199	0.039	15.498	2045.602	2.486	-47.567	73.890		
PHOTO DATA											A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA												
2	1.101	20.829	357.89273	-103.3	-3.8	-92.3	76.7	3.28154	0.841	-89.3	71.3	39.2	32.8	32.0	0.	0.	1-2		
3	1.257	20.588	354.62990	-105.3	-3.8	-91.9	76.2	3.25070	0.851	-88.4	71.1	40.2	31.7	30.6	8.68496	2-3			
4	1.260	21.101	362.89635	-104.2	-4.1	-91.9	76.4	3.32654	0.827	-88.3	71.6	38.1	34.3	33.2	15.53574	3-4			
5	0.942	21.075	361.45619	-101.5	-3.9	-92.7	77.2	3.31328	0.831	-90.2	71.6	38.1	33.9	33.3	9.66934	4-5			
6	0.946	20.565	353.26220	-102.3	-3.6	-92.7	76.9	3.23823	0.855	-90.2	71.0	40.2	31.3	30.7	14.53363	5-6			
7	1.257	20.588	354.62990	-105.3	-3.8	-91.9	76.2	3.25070	0.851	-88.4	71.1	40.2	31.7	30.6	9.44378	6-7			

FEB. 20, 1965 9 HR 54 MIN 53 SEC 505 MS

TAB NO 36

POD SEQUENCE NO 1461

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
										163.251	294.69855	0.149	15.880	2030.199	2.493	-47.322	73.891		
PHOTO DATA											A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA												
2	1.181	21.029	341.19611	-103.4	-3.9	-92.3	76.6	3.12844	0.839	-89.3	71.5	39.2	33.0	32.2	0.	0.	1-2		
3	1.330	20.799	338.06401	-105.3	-3.9	-91.9	76.1	3.09885	0.849	-88.4	71.3	40.2	32.0	30.8	8.28765	2-3			
4	1.333	21.289	346.00655	-104.3	-4.1	-91.9	76.3	3.17172	0.825	-88.3	71.8	38.1	34.5	33.4	14.84418	3-4			
5	1.030	21.264	344.61346	-101.6	-3.9	-92.7	77.1	3.15889	0.829	-90.2	71.7	38.1	34.1	33.5	9.22205	4-5			
6	1.033	20.776	336.74121	-102.4	-3.7	-92.7	76.8	3.08679	0.853	-90.2	71.3	40.2	31.5	30.9	14.76453	5-6			
7	1.330	20.799	338.06401	-105.3	-3.9	-91.9	76.1	3.09885	0.849	-88.4	71.3	40.2	32.0	30.8	9.00514	6-7			

RA-VIII CAMERA P2

10

FEB. 20, 1965 9 HR 55 MIN 1 SEC 905 MS

TAB NO 37

POD SEQUENCE NO 1471

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
										154.850	279.31099	0.261	16.268	2014.811	2.500	-47.072	73.894		
PHOTO DATA											A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA												
2	1.262	21.228	324.43814	-103.5	-4.0	-92.3	76.5	2.97479	0.837	-89.3	71.7	39.2	33.2	32.4	0.	0.	1-2		
3	1.403	21.009	321.43998	-105.4	-3.9	-91.9	76.0	2.94647	0.846	-88.4	71.5	40.2	32.2	31.1	7.88793	2-3			
4	1.407	21.476	329.05156	-104.4	-4.2	-91.9	76.2	3.01630	0.823	-88.3	72.0	38.1	34.7	33.6	14.14712	3-4			
5	1.118	21.451	327.70623	-101.7	-4.0	-92.8	77.0	3.00391	0.827	-90.2	71.9	38.1	34.3	33.7	8.77300	4-5			
6	1.121	20.987	320.16270	-102.6	-3.8	-92.7	76.7	2.93482	0.851	-90.2	71.5	40.2	31.7	31.2	14.07002	5-6			
7	1.403	21.009	321.43998	-105.4	-3.9	-91.9	76.0	2.94647	0.846	-88.4	71.5	40.2	32.2	31.1	8.56496	6-7			

FEB. 20, 1965 9 HR 55 MIN 10 SEC 305 MS

TAB NO 38

POD SEQUENCE NO 1481

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
										146.450	263.94052	0.375	16.662	1999.441	2.508	-46.820	73.896		
PHOTO DATA											A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA												
2	1.342	21.426	307.60746	-103.6	-4.0	-92.3	76.4	2.82047	0.835	-89.3	71.9	39.2	33.4	32.6	0.	0.	1-2		
3	1.476	21.218	304.74597	-105.5	-4.0	-91.9	75.9	2.79344	0.844	-88.4	71.7	40.2	32.4	31.3	7.48573	2-3			
4	1.480	21.662	312.01874	-104.5	-4.2	-91.9	76.2	2.86016	0.821	-88.3	72.2	38.1	34.9	33.8	13.44371	3-4			
5	1.206	21.638	310.72360	-101.9	-4.1	-92.8	76.9	2.84823	0.825	-90.2	72.1	38.1	34.5	33.9	8.32163	4-5			
6	1.209	21.197	303.51652	-102.7	-3.8	-92.8	76.6	2.78223	0.849	-90.2	71.7	40.2	32.0	31.4	13.36950	5-6			
7	1.476	21.218	304.74597	-105.5	-4.0	-91.9	75.9	2.79344	0.844	-88.4	71.7	40.2	32.4	31.3	8.12267	6-7			

FEB. 20, 1965 9 HR 55 MIN 18 SEC 705 MS

TAB NO 39

POD SEQUENCE NO 1491

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
										138.050	248.58810	0.490	17.062	1984.088	2.515	-46.563	73.900		
PHOTO DATA											A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA												
2	1.423	21.423	290.70177	-103.7	-4.1	-92.3	76.3	2.66546	0.833	-89.3	72.1	39.2	33.6	32.8	0.	0.	1-2		
3	1.549	21.426	287.97975	-105.5	-4.0	-91.9	75.9	2.63975	0.842	-88.4	71.9	40.2	32.6	31.5	7.08095	2-3			
4	1.552	21.846	294.90573	-104.6	-4.3	-91.9	76.1	2.70330	0.819	-88.3	72.3	38.1	35.1	34.0	12.73382	3-4			
5	1.294	21.824	293.46632	-102.0	-4.1	-92.8	76.7	2.69185	0.823	-90.2	72.3	38.1	34.7	34.1	7.86786	4-5			
6	1.296	21.406	286.80044	-102.8	-3.9	-92.8	76.5	2.62900	0.846	-90.2	71.9	40.2	32.2	31.6	12.66223	5-6			
7	1.549	21.426	287.97975	-105.5	-4.0	-91.9	75.9	2.63975	0.842	-88.4	71.9	40.2	32.6	31.5	7.67823	6-7			

FEB. 20, 1965 9 HR 55 MIN 27 SEC 105 MS

TAB NO 40

POD SE

RA-VIII CAMERA P2

11

FEB. 20, 1965 9 HR 55 MIN 35 SEC 505 MS TAB NO 41 ATLAS PHOTO NO 4 POD SEQUENCE NO 1511

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				121.250	217.94159	0.727	17.881	1953.442	2.531	-46.039	73.911				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUM	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.581	22.013	256.65591	-103.9	-4.2	-92.4	76.1	2.35329	0.829	-89.3	72.5	39.2	34.1	33.2	0.
3	1.693	21.839	254.22139	-105.7	-4.2	-91.9	75.7	2.33031	0.838	-88.4	72.3	40.2	33.1	31.9	6.26342
4	1.696	22.212	260.42963	-104.7	-4.4	-91.9	75.9	2.38726	0.815	-88.3	72.7	38.1	35.5	34.4	11.29391
5	1.468	22.191	259.29956	-102.2	-4.3	-92.8	76.5	2.37685	0.819	-90.2	72.7	38.1	35.1	34.5	6.95286
6	1.470	21.820	253.14924	-103.0	-4.0	-92.8	76.3	2.32053	0.842	-90.2	72.3	40.2	32.6	32.0	11.22849
7	1.693	21.839	254.22139	-105.7	-4.2	-91.9	75.7	2.33031	0.838	-88.4	72.3	40.2	33.1	31.9	6.78259

FEB. 20, 1965 9 HR 55 MIN 43 SEC 905 MS TAB NO 42 POD SEQUENCE NO 1521

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				112.850	202.64990	0.847	18.300	1938.150	2.539	-45.772	73.917				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUM	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.659	22.206	239.50851	-104.0	-4.3	-92.4	76.0	2.19607	0.827	-89.3	72.7	39.2	34.3	33.4	0.
3	1.764	22.044	237.22143	-105.7	-4.2	-91.9	75.6	2.17448	0.836	-88.4	72.6	40.2	33.3	32.1	5.85073
4	1.767	22.392	243.05817	-104.8	-4.5	-91.9	75.8	2.22803	0.813	-88.3	72.9	38.1	35.7	34.5	10.56349
5	1.553	22.373	241.98970	-102.3	-4.3	-92.8	76.4	2.21818	0.817	-90.2	72.9	38.1	35.3	34.7	6.49119
6	1.555	22.026	236.20765	-103.1	-4.1	-92.8	76.2	2.16523	0.840	-90.2	72.5	40.2	32.9	32.2	10.50148
7	1.764	22.044	237.22143	-105.7	-4.2	-91.9	75.6	2.17448	0.836	-88.4	72.6	40.2	33.3	32.1	6.33098

FEB. 20, 1965 9 HR 55 MIN 52 SEC 306 MS TAB NO 43 POD SEQUENCE NO 1531

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				104.450	187.38101	0.970	18.726	1922.881	2.547	-45.500	73.925				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUM	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.737	22.398	222.27707	-104.0	-4.3	-92.4	76.0	2.03807	0.824	-89.3	72.9	39.2	34.5	33.6	0.
3	1.834	22.247	220.14037	-105.8	-4.2	-91.9	75.6	2.01790	0.834	-88.4	72.8	40.2	33.5	32.3	5.43520
4	1.837	22.572	225.59744	-104.8	-4.5	-91.9	75.8	2.06797	0.811	-88.3	73.1	38.1	35.9	34.7	9.82597
5	1.639	22.553	224.59294	-102.4	-4.4	-92.9	76.3	2.05872	0.815	-90.2	73.1	38.1	35.4	34.8	6.02682
6	1.640	22.230	219.18739	-103.2	-4.1	-92.8	76.1	2.00921	0.838	-90.2	72.7	40.2	33.1	32.4	9.76755
7	1.834	22.247	220.14037	-105.8	-4.2	-91.9	75.6	2.01790	0.834	-88.4	72.8	40.2	33.5	32.3	5.87692

FEB. 20, 1965 9 HR 56 MIN 0 SEC 706 MS TAB NO 44 POD SEQUENCE NO 1541

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				96.050	172.13602	1.095	19.159	1907.636	2.554	-45.225	73.933				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUM	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.814	22.589	204.95907	-104.1	-4.4	-92.4	75.9	1.87928	0.822	-89.3	73.1	39.2	34.7	33.8	0.
3	1.903	22.449	202.97588	-105.8	-4.3	-91.9	75.5	1.86056	0.832	-88.4	73.0	40.2	33.7	32.5	5.01671
4	1.906	22.749	208.04475	-104.9	-4.6	-91.9	75.7	1.90707	0.809	-88.3	73.3	38.1	36.1	34.9	9.08116
5	1.724	22.732	207.10653	-102.5	-4.4	-92.9	76.2	1.89843	0.813	-90.2	73.2	38.1	35.6	35.0	5.55974
6	1.725	22.434	202.08585	-103.3	-4.2	-92.8	76.1	1.85245	0.836	-90.2	72.9	40.2	33.3	32.6	9.02648
7	1.903	22.449	202.97588	-105.8	-4.3	-91.9	75.5	1.86056	0.832	-88.4	73.0	40.2	33.7	32.5	5.42039

RA-VIII CAMERA P2

12

FEB. 20, 1965 9 HR 56 MIN 9 SEC 106 MS TAB NO 45 POD SEQUENCE NO 1551

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				87.650	156.91638	1.221	19.598	1892.416	2.563	-44.945	73.943				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUM	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.891	22.778	187.55174	-104.2	-4.4	-92.4	75.8	1.71967	0.820	-89.3	73.3	39.2	34.9	34.0	0.
3	1.972	22.650	185.72502	-105.8	-4.3	-91.9	75.5	1.70243	0.830	-88.4	73.2	40.2	33.9	32.7	4.59526
4	1.975	22.925	190.39712	-104.9	-4.6	-91.9	75.6	1.74530	0.807	-88.4	73.4	38.1	36.2	35.1	8.32890
5	1.808	22.909	189.52791	-102.6	-4.5	-92.9	76.2	1.73729	0.811	-90.3	73.4	38.1	35.8	35.2	5.08979
6	1.809	22.636	184.90053	-103.4	-4.2	-92.8	76.0	1.69492	0.834	-90.2	73.2	40.2	33.5	32.8	8.27814
7	1.972	22.650	185.72502	-105.8	-4.3	-91.9	75.5	1.70243	0.830	-88.4	73.2	40.2	33.9	32.7	4.96125

FEB. 20, 1965 9 HR 56 MIN 13 SEC 306 MS TAB NO 46 POD SEQUENCE NO 1556

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				83.450	149.31662	1.285	19.821	1884.817	2.567	-44.804	73.948				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUM	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.929	22.872	178.81310	-104.2	-4.4	-92.4	75.8	1.63955	0.819	-89.3	73.4	39.2	35.0	34.1	0.
3	2.007	22.750	177.06564	-105.9	-4.4	-91.9	75.4	1.62306	0.829	-88.4	73.3	40.2	34.1	32.8	4.38342
4	2.009	23.013	181.53609	-105.0	-4.6	-91.9	75.6	1.66408	0.806	-88.4	73.5	38.1	36.3	35.2	7.94991
5	1.850	22.997	180.70261	-102.7	-4.5	-92.9	76.1	1.65640	0.810	-90.3	73.5	38.1	35.9	35.3	4.85366
6	1.851	22.736	176.27510	-103.4	-4.3	-92.8	75.9	1.61585	0.833	-90.2	73.3	40.2	33.6	32.9	7.90117
7	2.007	22.750	177.06564	-105.9	-4.4	-91.9	75.4	1.62306	0.829	-88.4	73.3	40.2	34.1	32.8	4.73063

FEB. 20, 1965 9 HR 56 MIN 17 SEC 506 MS TAB NO 47 POD SEQUENCE NO 1561

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				79.250	141.72362	1.350	20.045	1877.224	2.571	-44.661	73.954				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUM	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.967	22.966	170.05144	-104.2	-4.5	-92.4	75.8	1.55921	0.818	-89.3	73.5	39.2	35.1	34.2	0.
3	2.041	22.949	159.68010	-105.9	-4.4	-91.9	75.4	1.54348	0.828	-88.4	73.4	40.2	34.2	32.9	4.17078
4	2.043	23.099	172.65068	-105.0	-4.7	-91.9	75.6	1.58263	0.805	-88.4	73.6	38.1	36.4	35.3	7.56899
5	1.891	23.085	171.85355	-102.7	-4.6	-92.9	76.1	1.57528	0.809	-90.3	73.6	38.1	36.0	35.4	4.61681
6	1.893	22.836	167.62801	-103.5	-4.3	-92.9	75.9	1.53659	0.832	-90.3	73.4	40.2	33.7	33.0	7.52235
7	2.041	22.949	159.68010	-105.9	-4.4	-91.9	75.4	1.54348	0.828	-88.4	73.4	40.2	34.2	32.9	4.49935

FEB. 20, 1965 9 HR 56 MIN 21 SEC 706 MS TAB NO 48 POD SEQUENCE NO 1566

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ				
				75.050	134.13765	1.415	20.272	1869.638	2.575	-44.518	73.959				
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUM	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.005	23.059	161.26660	-104.3	-4.5	-92.4	75.7	1.47866	0.817	-89.3	73.6	39.2	35.2	34.2	0.
3	2.075	22.949	159.68010	-105.9	-4.4	-91.9	75.4	1.46370	0.827	-88.4	73.5	40.2	34.3	33.0	3.95738
4	2.077	23.186	163.74071	-105.0	-4.7	-91.9	75.6	1.50095	0.804	-88.4	73.7	38.1	36.5	35.4	7.18617
5	1.932	23.172	162.38066	-102.7	-4.6	-92.9	76.0	1.49395	0.808	-90.3	73.7	38.1			

RA-VIII CAMERA P2

13

FEB. 20, 1965 9 HR 56 MIN 25 SEC 906 MS

TAB NO 49

POD SEQUENCE NO 1571

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ	
										70.849	128.55891	1.481	20.500	1862.059	2.579	-44.373	73.966	
PHOTO DATA																		
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT		
2	2.043	23.152	152.45982	-104.3	-4.5	-92.4	75.7	1.39791	0.816	-89.3	73.7	39.2	35.3	34.3	0.	1-2		
3	2.109	23.047	150.95520	-105.9	-4.4	-91.9	75.4	1.38372	0.826	-88.4	73.6	40.2	34.4	33.1	3.74312	2-3		
4	2.111	23.272	154.80766	-105.0	-4.7	-91.9	75.5	1.41907	0.803	-88.4	73.8	38.1	36.6	35.4	6.80147	3-4		
5	1.975	23.259	154.08447	-102.8	-4.6	-92.9	76.0	1.41240	0.807	-90.3	73.8	38.1	36.2	35.5	4.14102	4-5		
6	1.976	23.035	150.26931	-103.5	-4.4	-92.9	75.8	1.37747	0.830	-90.3	73.6	40.2	33.9	33.2	6.75909	5-6		
7	2.109	23.047	150.95520	-105.9	-4.4	-91.9	75.4	1.38372	0.826	-88.4	73.6	40.2	34.4	33.1	4.03490	6-7		

FEB. 20, 1965 9 HR 56 MIN 26 SEC 746 MS

TAB NO 50

ATLAS PHOTO NO 5

POD SEQUENCE NO 1572

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										70.009	125.04404	1.494	20.546	1860.544	2.580	-44.344	73.967
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.050	23.170	150.69558	-104.3	-4.5	-92.4	75.7	1.38174	0.816	-89.3	73.7	39.2	35.3	34.4	0.	1-2	
3	2.116	23.067	149.20744	-105.9	-4.4	-91.9	75.4	1.36770	0.825	-88.4	73.6	40.2	34.4	33.1	3.70018	2-3	
4	2.118	23.289	153.01800	-105.0	-4.7	-91.9	75.5	1.40266	0.803	-88.4	73.8	38.1	36.6	35.5	6.72431	3-4	
5	1.983	23.276	152.30230	-102.8	-4.6	-92.9	76.0	1.39607	0.807	-90.3	73.8	38.1	36.2	35.6	4.09329	4-5	
6	1.985	23.055	148.52867	-103.6	-4.4	-92.9	75.8	1.36151	0.830	-90.3	73.6	40.2	34.0	33.2	6.68233	5-6	
7	2.116	23.067	149.20744	-105.9	-4.4	-91.9	75.4	1.36770	0.825	-88.4	73.6	40.2	34.4	33.1	3.98831	6-7	

FEB. 20, 1965 9 HR 56 MIN 30 SEC 106 MS

TAB NO 51

POD SEQUENCE NO 1576

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										66.649	118.98758	1.547	20.730	1854.488	2.583	-44.227	73.972
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.081	23.244	143.62904	-104.3	-4.6	-92.4	75.7	1.31694	0.815	-89.3	73.8	39.2	35.4	34.4	0.	1-2	
3	2.143	23.146	142.20711	-105.9	-4.5	-91.9	75.4	1.30353	0.825	-88.4	73.7	40.2	34.5	33.2	3.52807	2-3	
4	2.145	23.358	145.84922	-105.1	-4.7	-91.9	75.5	1.33695	0.802	-88.4	73.9	38.1	36.7	35.5	6.41483	3-4	
5	2.017	23.345	145.16373	-102.8	-4.6	-92.9	75.9	1.33063	0.806	-90.3	73.9	38.1	36.3	35.6	3.90206	4-5	
6	2.018	23.134	141.55701	-103.6	-4.4	-92.9	75.8	1.29760	0.829	-90.3	73.7	40.2	34.0	33.3	6.37461	5-6	
7	2.143	23.146	142.20711	-105.9	-4.5	-91.9	75.4	1.30353	0.825	-88.4	73.7	40.2	34.5	33.2	3.80169	6-7	

FEB. 20, 1965 9 HR 56 MIN 34 SEC 306 MS

TAB NO 52

POD SEQUENCE NO 1581

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										62.449	111.42380	1.613	20.962	1846.924	2.587	-44.080	73.979
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.118	23.336	134.77381	-104.4	-4.6	-92.4	75.6	1.23575	0.814	-89.3	73.9	39.2	35.5	34.5	0.	1-2	
3	2.177	23.244	133.43535	-105.9	-4.5	-91.9	75.3	1.22312	0.824	-88.4	73.8	40.2	34.6	33.3	3.31219	2-3	
4	2.179	23.443	136.86489	-105.1	-4.8	-91.9	75.5	1.25459	0.801	-88.4	74.0	38.1	36.8	35.6	6.02620	3-4	
5	2.059	23.431	136.21771	-102.9	-4.7	-92.9	75.9	1.24863	0.805	-90.3	74.0	38.1	36.4	35.7	3.66233	4-5	
6	2.060	23.233	132.82162	-103.6	-4.4	-92.9	75.8	1.21753	0.828	-90.3	73.8	40.2	34.2	33.4	5.98818	5-6	
7	2.177	23.244	133.43535	-105.9	-4.5	-91.9	75.3	1.22312	0.824	-88.4	73.8	40.2	34.6	33.3	3.56778	6-7	

RA-VIII CAMERA P2

14

FEB. 20, 1965 9 HR 56 MIN 38 SEC 506 MS

TAB NO 53

POD SEQUENCE NO 1586

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										58.249	103.86803	1.680	21.196	1839.368	2.592	-43.933	73.986
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.156	23.428	125.89449	-104.4	-4.6	-92.4	75.6	1.15433	0.813	-89.3	74.0	39.2	35.6	34.6	0.	1-2	
3	2.211	23.342	124.64015	-106.0	-4.5	-91.9	75.3	1.14250	0.823	-88.4	73.9	40.2	34.7	33.4	3.09558	2-3	
4	2.213	23.528	127.85499	-105.1	-4.8	-91.9	75.5	1.17200	0.800	-88.4	74.1	38.1	36.9	35.7	5.63563	3-4	
5	2.100	23.517	127.24701	-102.9	-4.7	-92.9	75.9	1.16640	0.804	-90.3	74.0	38.1	36.5	35.8	3.42179	4-5	
6	2.101	23.332	124.06358	-103.7	-4.4	-92.9	75.7	1.13725	0.827	-90.3	73.9	40.2	34.3	33.5	5.99990	5-6	
7	2.211	23.342	124.64015	-106.0	-4.5	-91.9	75.3	1.14250	0.823	-88.4	73.9	40.2	34.7	33.4	3.33314	6-7	

FEB. 20, 1965 9 HR 56 MIN 42 SEC 706 MS

TAB NO 54

POD SEQUENCE NO 1591

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										54.049	96.32001	1.748	21.431	1831.820	2.596	-43.783	73.993
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.193	23.519	116.99012	-104.4	-4.6	-92.4	75.6	1.07269	0.812	-89.3	74.1	39.1	35.7	34.7	0.	1-2	
3	2.244	23.439	115.82053	-106.0	-4.5	-91.9	75.3	1.06166	0.822	-88.4	74.0	40.2	34.8	33.5	2.87820	2-3	
4	2.246	23.612	118.81857	-105.1	-4.8	-91.9	75.4	1.08917	0.799	-88.4	74.2	38.1	37.0	35.8	5.24311	3-4	
5	2.142	23.602	118.25066	-103.0	-4.7	-92.9	75.8	1.08393	0.803	-90.3	74.1	38.1	36.6	35.9	3.18044	4-5	
6	2.142	23.430	115.28199	-103.7	-4.5	-92.9	75.7	1.05675	0.826	-90.3	74.0	40.2	34.4	33.6	5.20969	5-6	
7	2.244	23.439	115.82053	-106.0	-4.5	-91.9	75.3	1.06166	0.822	-88.4	74.0	40.2	34.8	33.5	3.09773	6-7	

FEB. 20, 1965 9 HR 56 MIN 46 SEC 906 MS

TAB NO 55

POD SEQUENCE NO 1596

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										49.849	86.78044	1.816	21.669	1824.280	2.600	-43.633	74.001
PHOTO DATA																	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	2.231	23.610	108.06056	-104.5	-4.7	-92.4	75.5	0.99081	0.811	-89.3	74.1	39.1	35.8	34.8	0.	1-2	
3	2.277	23.536	106.97660	-106.0	-4.6	-91.9	75.3	0.98059	0.821	-88.4	74.1	40.2	34.9	33.6	2.65996	2-3	
4	2.279	23.696	109.75552	-105.1	-4.8	-91.9	75.4	1.00609	0.798	-88.4	74.2	38.1	37.1	35.9	4.84852	3-4	
5	2.183	23.686	109.22827	-103.0	-4.7	-92.9	75.8	1.00123	0.802	-90.3	74.2	38.1	36.7	36.0	2.93828	4-5	
6	2.183	23.527	104.87662	-103.7	-4.5	-92.9	75.7	0.97603	0.825	-90.3	74.1	40.2	34.5	33.7	4.81747	5-6	
7	2.277	23.536	106.97660	-106.0	-4.6	-91.9	75.3	0.98059	0.821	-88.4	74.1	40.2	34.9	33.6	2.86160	6-7	

FEB. 20, 1965 9 HR 56 MIN 51 SEC 106 MS

TAB NO 56

POD SEQUENCE NO 1601

TRAJECTORY DATA										SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ
										45.64							

RA-VIII CAMERA P2

15

FEB. 20,1965 9 HR 56 MIN 55 SEC 306 MS TAB NO 57 POD SEQUENCE NO 1606

TRAJECTORY DATA SEC TO IMPACT 41.449 ALT 73.72659 LAT 1.954 LON 22.151 R 1809.227 V 2.609 PTH -43.329 AZ 74.018

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.305	23.791	90.12328	-104.5	-4.7	-92.4	75.5	0.82634	0.809	-89.3	74.3	39.1	36.0	35.0	0.	1-2
3	2.344	23.728	89.21333	-106.0	-4.6	-91.8	75.2	0.81777	0.818	-88.5	74.3	40.2	35.1	33.8	2.22078	2-3
4	2.346	23.862	91.54709	-105.2	-4.9	-91.9	75.4	0.83918	0.796	-88.4	74.4	38.1	37.2	36.0	4.05301	3-4
5	2.265	23.854	91.10265	-103.1	-4.8	-92.9	75.7	0.83508	0.800	-90.3	74.4	38.1	36.8	36.2	2.45160	4-5
6	2.266	23.721	88.79190	-103.8	-4.5	-92.9	75.6	0.81392	0.823	-90.3	74.3	40.2	34.7	33.9	4.02680	5-6
7	2.344	23.728	89.21333	-106.0	-4.6	-91.8	75.2	0.81777	0.818	-88.5	74.3	40.2	35.1	33.8	2.38717	6-7

FEB. 20,1965 9 HR 56 MIN 59 SEC 506 MS TAB NO 58 POD SEQUENCE NO 1611

TRAJECTORY DATA SEC TO IMPACT 37.249 ALT 66.21284 LAT 2.024 LON 22.394 R 1801.713 V 2.613 PTH -43.176 AZ 74.027

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.342	23.880	81.11504	-104.5	-4.7	-92.4	75.5	0.74375	0.808	-89.3	74.4	39.1	36.1	35.1	0.	1-2
3	2.377	23.824	80.29346	-106.0	-4.6	-91.8	75.2	0.73600	0.817	-88.5	74.4	40.2	35.2	33.9	1.99984	2-3
4	2.379	23.945	82.40111	-105.2	-4.9	-91.9	75.3	0.75534	0.795	-88.4	74.5	38.1	37.3	36.1	3.65205	3-4
5	2.306	23.937	81.99885	-103.1	-4.8	-92.9	75.7	0.75163	0.799	-90.3	74.5	38.1	36.9	36.2	2.20705	4-5
6	2.307	23.817	79.91203	-103.8	-4.6	-92.9	75.6	0.73252	0.822	-90.3	74.4	40.2	34.8	34.0	3.62830	5-6
7	2.377	23.824	80.29346	-106.0	-4.6	-91.8	75.2	0.73600	0.817	-88.5	74.4	40.2	35.2	33.9	2.14884	6-7

FEB. 20,1965 9 HR 57 MIN 3 SEC 706 MS TAB NO 59 POD SEQUENCE NO 1616

TRAJECTORY DATA SEC TO IMPACT 33.049 ALT 58.70816 LAT 2.094 LON 22.640 R 1794.208 V 2.617 PTH -43.021 AZ 74.036

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.379	23.969	72.07976	-104.6	-4.8	-92.4	75.4	0.66090	0.807	-89.3	74.5	39.1	36.1	35.2	0.	1-2
3	2.411	23.919	71.34744	-106.0	-4.6	-91.8	75.2	0.65400	0.816	-88.5	74.5	40.2	35.3	34.0	1.77799	2-3
4	2.412	24.026	73.22668	-105.2	-4.9	-91.9	75.3	0.67124	0.794	-88.4	74.6	38.1	37.4	36.2	1.24896	3-4
5	2.347	24.020	72.86723	-103.2	-4.9	-92.9	75.7	0.66793	0.799	-90.3	74.6	38.1	37.0	36.3	1.96165	4-5
6	2.348	23.913	71.00660	-103.9	-4.6	-92.9	75.5	0.65089	0.821	-90.3	74.5	40.2	34.9	34.1	3.22773	5-6
7	2.411	23.919	71.34744	-106.0	-4.6	-91.8	75.2	0.65400	0.816	-88.5	74.5	40.2	35.3	34.0	1.49073	6-7

FEB. 20,1965 9 HR 57 MIN 7 SEC 906 MS TAB NO 60 POD SEQUENCE NO 1621

TRAJECTORY DATA SEC TO IMPACT 28.849 ALT 51.21274 LAT 2.165 LON 22.888 R 1786.713 V 2.622 PTH -42.865 AZ 74.045

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.416	24.057	63.01666	-104.6	-4.8	-92.4	75.4	0.57780	0.807	-89.4	74.6	39.1	36.2	35.3	0.	1-2
3	2.444	24.014	62.37444	-106.1	-4.7	-91.8	75.2	0.57175	0.815	-88.5	74.6	40.2	35.4	34.1	1.55523	2-3
4	2.445	24.108	64.02290	-105.2	-4.9	-91.9	75.3	0.58687	0.793	-88.4	74.7	38.1	37.5	36.3	2.84366	3-4
5	2.388	24.102	63.70692	-103.2	-4.9	-92.9	75.6	0.58396	0.798	-90.3	74.6	38.1	37.1	36.4	1.71539	4-5
6	2.389	24.008	62.07483	-103.9	-4.6	-92.9	75.5	0.56902	0.820	-90.3	74.6	40.2	35.0	34.2	2.82498	5-6
7	2.444	24.014	62.37444	-106.1	-4.7	-91.8	75.2	0.57175	0.815	-88.5	74.6	40.2	35.4	34.1	1.66983	6-7

RA-VIII CAMERA P2

16

FEB. 20,1965 9 HR 57 MIN 12 SEC 106 MS TAB NO 61 POD SEQUENCE NO 1626

TRAJECTORY DATA SEC TO IMPACT 24.649 ALT 43.72705 LAT 2.236 LON 23.138 R 1779.227 V 2.626 PTH -42.707 AZ 74.055

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.453	24.145	53.92531	-104.6	-4.8	-92.4	75.4	0.49444	0.808	-89.4	74.7	39.1	36.3	35.4	0.	1-2
3	2.476	24.108	53.37406	-106.1	-4.7	-91.8	75.2	0.48925	0.814	-88.5	74.7	40.2	35.5	34.2	1.33153	2-3
4	2.477	24.188	54.78932	-105.3	-5.0	-91.8	75.3	0.50223	0.793	-88.4	74.7	38.1	37.6	36.4	2.43610	3-4
5	2.429	24.183	54.51753	-103.2	-4.9	-92.9	75.6	0.49973	0.797	-90.3	74.7	38.1	37.2	36.5	1.46823	4-5
6	2.429	24.103	53.11635	-103.9	-4.6	-92.9	75.5	0.48690	0.819	-90.3	74.7	40.2	35.1	34.3	2.42003	5-6
7	2.429	24.108	53.37406	-106.1	-4.7	-91.8	75.2	0.48925	0.814	-88.5	74.7	40.2	35.5	34.2	1.42910	6-7

FEB. 20,1965 9 HR 57 MIN 16 SEC 307 MS TAB NO 62 POD SEQUENCE NO 1631

TRAJECTORY DATA SEC TO IMPACT 20.449 ALT 36.25096 LAT 2.308 LON 23.391 R 1771.751 V 2.631 PTH -42.549 AZ 74.066

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.490	24.232	44.80605	-104.7	-4.8	-92.4	75.3	0.41083	0.805	-89.4	74.8	39.1	36.4	35.4	0.	1-2
3	2.509	24.201	44.34660	-106.1	-4.7	-91.8	75.1	0.40650	0.813	-88.5	74.8	40.2	35.6	34.3	1.10693	2-3
4	2.510	24.268	45.52640	-105.3	-5.0	-91.8	75.2	0.41732	0.792	-88.4	74.8	38.1	37.7	36.5	2.02639	3-4
5	2.470	24.264	45.29939	-103.3	-4.9	-92.9	75.5	0.41523	0.796	-90.3	74.8	38.1	37.3	36.6	1.22020	4-5
6	2.470	24.198	44.13137	-104.0	-4.7	-92.9	75.4	0.40454	0.818	-90.3	74.7	40.2	35.2	34.4	2.01295	5-6
7	2.509	24.201	44.34660	-106.1	-4.7	-91.8	75.1	0.40650	0.813	-88.5	74.8	40.2	35.6	34.3	1.18758	6-7

FEB. 20,1965 9 HR 57 MIN 20 SEC 507 MS TAB NO 63 POD SEQUENCE NO 1636

TRAJECTORY DATA SEC TO IMPACT 16.249 ALT 28.78496 LAT 2.381 LON 23.645 R 1764.285 V 2.635 PTH -42.389 AZ 74.076

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.526	24.319	35.65892	-104.7	-4.9	-92.4	75.3	0.32696	0.804	-89.4	74.9	39.1	36.5	35.5	0.	1-2
3	2.542	24.294	35.29217	-106.1	-4.7	-91.8	75.1	0.32350	0.812	-88.5	74.8	40.2	35.7	34.4	0.88140	2-3
4	2.543	24.348	36.23414	-105.3	-5.0	-91.8	75.2	0.33215	0.791	-88.4	74.9	38.1	37.8	36.5	1.61450	3-4
5	2.511	24.344	36.05255	-103.3	-5.0	-92.9	75.5	0.33047	0.795	-90.3	74.9	38.1	37.4	36.7	0.97131	4-5
6	2.511	24.291	35.12000	-104.0	-4.7	-92.9	75.4	0.32193	0.817	-90.3	74.8	40.2	35.3	34.5	1.60374	5-6
7	2.542	24.294	35.29217	-106.1	-4.7	-91.8	75.1	0.32350	0.812	-88.5	74.8	40.2	35.7	34.4	0.94525	6-7

FEB. 20,1965 9 HR 57 MIN 24 SEC 707 MS TAB NO 64 ATLAS PHOTO NO 6 POD SEQUENCE NO 1641

TRAJECTORY DATA SEC TO IMPACT 12.049 ALT 21.32912 LAT 2.454 LON 23.902 R 1756.829 V 2.639 PTH -42.228 AZ 74.088

PHOTO DATA

PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.563	24.405	26.48311	-104.7	-4.9	-92.4	75.3	0.24282	0.803	-89.4	75.0	39.1	36.6	35.6	0.	1-2
3	2.574	24.387	26.20992	-106.1	-4.8	-91.8	75.1	0.24025	0.811	-88.5	74.9	40.2	35.8	34.5	0.65492	2-3
4	2.575	24.427	26.91174	-105.3	-5.0	-91.8	75.2	0.24669	0.790	-88.4	75.0	38.1	37.8	36.6	1.20036	3-4
5	2.551	24.424	26.77618	-103.4	-5.0	-92.9	75.5	0.24544	0.794	-90.3	75.0	38.1	37.5	36.7	0.72153	4-5
6	2.551	24.385	26.08139	-104.1	-4.8	-92.9	75.4	0.23908	0.816	-90.3	74.9	40.2	35.4	34.6	1.19233	5-6
7	2.574	24.387	26.20992	-106.1	-4.8	-91.8	75.1	0.24025	0.811	-88.5	74.9	40.2	35.8	34.5	0.70211	6-7

RA-VIII CAMERA P2

17

FEB. 20, 1965 9 HR 57 MIN 25 SEC 547 MS TAB NO 65 ATLAS PHOTO NO 7 POD SEQUENCE NO 1642

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				11.209		19.83923		2.469		23.953		1755.339		2.640		-42.195		74.090	
PHOTO DATA						A*		B/A		AZPHAZ		INCD		PHAZ		EMIS		ALPHA	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA											SCALE	PT-PT
2	2.570	24.423	24.64453	-104.7	-4.9	-92.4	75.3	0.22597	0.803	-89.4	75.0	39.1	36.6	35.6	0.	1-2			
3	2.581	24.406	24.39018	-106.1	-4.8	-91.8	75.1	0.22357	0.811	-88.5	75.0	40.2	35.8	34.5	0.60950	2-3			
4	2.581	24.442	25.04369	-105.3	-5.0	-91.8	75.2	0.22957	0.790	-88.4	75.0	38.1	37.9	36.6	1.11727	3-4			
5	2.559	24.440	24.91740	-103.4	-5.0	-92.9	75.5	0.22840	0.794	-90.3	75.0	38.1	37.5	36.8	0.67147	4-5			
6	2.559	24.403	24.27043	-104.1	-4.7	-92.9	75.4	0.22248	0.815	-90.3	75.0	40.2	35.4	34.6	1.10980	5-6			
7	2.581	24.406	24.39018	-106.1	-4.8	-91.8	75.1	0.22357	0.811	-88.5	75.0	40.2	35.8	34.5	0.65327	6-7			

FEB. 20, 1965 9 HR 57 MIN 26 SEC 387 MS TAB NO 66 ATLAS PHOTO NO 8 POD SEQUENCE NO 1643

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				10.369		18.34978		2.483		24.005		1753.850		2.641		-42.163		74.092	
PHOTO DATA						A*		B/A		AZPHAZ		INCD		PHAZ		EMIS		ALPHA	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA											SCALE	PT-PT
2	2.577	24.440	22.80487	-104.7	-4.9	-92.4	75.3	0.20910	0.802	-89.4	75.0	39.1	36.6	35.7	0.	1-2			
3	2.587	24.424	22.56935	-106.1	-4.8	-91.8	75.1	0.20688	0.811	-88.5	75.0	40.2	35.8	34.5	0.56407	2-3			
4	2.588	24.458	23.17445	-105.3	-5.0	-91.8	75.2	0.21243	0.790	-88.4	75.0	38.1	37.9	36.7	1.03409	3-4			
5	2.567	24.456	23.05749	-103.4	-5.0	-92.9	75.5	0.21135	0.794	-90.3	75.0	38.1	37.5	36.8	0.62137	4-5			
6	2.567	24.422	22.45842	-104.1	-4.7	-92.9	75.4	0.20587	0.815	-90.3	75.0	40.2	35.4	34.6	1.02717	5-6			
7	2.587	24.424	22.56935	-106.1	-4.8	-91.8	75.1	0.20688	0.811	-88.5	75.0	40.2	35.8	34.5	0.60463	6-7			

FEB. 20, 1965 9 HR 57 MIN 27 SEC 227 MS TAB NO 67 ATLAS PHOTO NO 9 POD SEQUENCE NO 1644

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				9.529		16.86078		2.498		24.057		1752.361		2.642		-42.131		74.095	
PHOTO DATA						A*		B/A		AZPHAZ		INCD		PHAZ		EMIS		ALPHA	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA											SCALE	PT-PT
2	2.585	24.457	20.96403	-104.7	-4.9	-92.4	75.3	0.19222	0.802	-89.4	75.0	39.1	36.7	35.7	0.	1-2			
3	2.594	24.442	20.74738	-106.1	-4.8	-91.8	75.1	0.19018	0.811	-88.5	75.0	40.2	35.8	34.5	0.51860	2-3			
4	2.594	24.474	21.30401	-105.3	-5.0	-91.8	75.2	0.19529	0.789	-88.4	75.0	38.1	37.9	36.7	0.95084	3-4			
5	2.575	24.472	21.19636	-103.4	-5.0	-92.9	75.5	0.19429	0.793	-90.3	75.0	38.1	37.5	36.8	0.57124	4-5			
6	2.576	24.441	20.64531	-104.1	-4.7	-92.9	75.4	0.18925	0.815	-90.3	75.0	40.2	35.4	34.7	0.94466	5-6			
7	2.594	24.442	20.74738	-106.1	-4.8	-91.8	75.1	0.19018	0.811	-88.5	75.0	40.2	35.8	34.5	0.55584	6-7			

FEB. 20, 1965 9 HR 57 MIN 28 SEC 67 MS TAB NO 68 ATLAS PHOTO NO 10 POD SEQUENCE NO 1645

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				8.689		15.37221		2.513		24.108		1750.872		2.643		-42.098		74.097	
PHOTO DATA						A*		B/A		AZPHAZ		INCD		PHAZ		EMIS		ALPHA	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA											SCALE	PT-PT
2	2.592	24.474	19.12208	-104.7	-4.9	-92.4	75.3	0.17533	0.802	-89.4	75.0	39.1	36.7	35.7	0.	1-2			
3	2.600	24.461	18.92439	-106.1	-4.8	-91.8	75.1	0.17347	0.811	-88.5	75.0	40.2	35.9	34.6	0.47306	2-3			
4	2.601	24.490	19.43241	-105.3	-5.0	-91.8	75.2	0.17813	0.789	-88.4	75.0	38.1	37.9	36.7	0.86747	3-4			
5	2.584	24.488	19.33610	-103.4	-5.0	-92.9	75.4	0.17722	0.793	-90.3	75.0	38.1	37.5	36.8	0.52107	4-5			
6	2.584	24.459	18.83117	-104.1	-4.7	-92.9	75.3	0.17262	0.815	-90.3	75.0	40.2	35.5	34.7	0.86164	5-6			
7	2.600	24.461	18.92439	-106.1	-4.8	-91.8	75.1	0.17347	0.811	-88.5	75.0	40.2	35.9	34.6	0.50701	6-7			

RA-VIII CAMERA P2

18

FEB. 20, 1965 9 HR 57 MIN 28 SEC 907 MS TAB NO 69 ATLAS PHOTO NO 11 POD SEQUENCE NO 1646

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				7.849		13.88399		2.528		24.160		1749.384		2.644		-42.065		74.099	
PHOTO DATA						A*		B/A		AZPHAZ		INCD		PHAZ		EMIS		ALPHA	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA											SCALE	PT-PT
2	2.599	24.491	17.27880	-104.7	-4.9	-92.4	75.3	0.15843	0.802	-89.4	75.0	39.1	36.7	35.7	0.	1-2			
3	2.607	24.479	17.10006	-106.1	-4.8	-91.8	75.1	0.15675	0.810	-88.5	75.0	40.2	35.9	34.6	0.42751	2-3			
4	2.607	24.505	17.55940	-105.3	-5.0	-91.8	75.2	0.16096	0.789	-88.4	75.1	38.1	37.9	36.7	0.78402	3-4			
5	2.592	24.503	17.40749	-103.4	-5.0	-92.9	75.4	0.16014	0.793	-90.3	75.1	38.1	37.5	36.8	0.47086	4-5			
6	2.592	24.478	17.01576	-104.1	-4.8	-92.9	75.3	0.15598	0.815	-90.3	75.0	40.2	35.5	34.7	0.77876	5-6			
7	2.607	24.479	17.10006	-106.1	-4.8	-91.8	75.1	0.15675	0.810	-88.5	75.0	40.2	35.9	34.6	0.45815	6-7			

FEB. 20, 1965 9 HR 57 MIN 29 SEC 747 MS TAB NO 70 ATLAS PHOTO NO 12 POD SEQUENCE NO 1647

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				7.009		12.39615		2.543		24.212		1747.896		2.645		-42.033		74.102	
PHOTO DATA						A*		B/A		AZPHAZ		INCD		PHAZ		EMIS		ALPHA	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA											SCALE	PT-PT
2	2.607	24.508	15.44337	-104.7	-4.9	-92.4	75.3	0.14152	0.802	-89.4	75.1	39.1	36.7	35.7	0.	1-2			
3	2.613	24.498	15.27462	-106.1	-4.8	-91.8	75.1	0.14001	0.810	-88.5	75.1	40.2	35.9	34.6	0.38191	2-3			
4	2.614	24.521	15.08519	-105.3	-5.1	-91.8	75.2	0.14378	0.789	-88.4	75.1	38.1	37.9	36.7	0.70048	3-4			
5	2.600	24.519	15.60586	-103.4	-5.0	-92.9	75.4	0.14305	0.793	-90.3	75.1	38.1	37.5	36.8	0.42062	4-5			
6	2.600	24.496	15.19922	-104.1	-4.8	-92.9	75.3	0.13933	0.814	-90.3	75.1	40.2	35.5	34.7	0.69578	5-6			
7	2.613	24.498	15.27462	-106.1	-4.8	-91.8	75.1	0.14001	0.810	-88.5	75.1	40.2	35.9	34.6	0.40926	6-7			

FEB. 20, 1965 9 HR 57 MIN 30 SEC 587 MS TAB NO 71 ATLAS PHOTO NO 13 POD SEQUENCE NO 1648

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				6.169		10.90881		2.557		24.264		1746.409		2.646		-42.000		74.104	
PHOTO DATA						A*		B/A		AZPHAZ		INCD		PHAZ		EMIS		ALPHA	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA											SCALE	PT-PT
2	2.614	24.525	13.58882	-104.8	-4.9	-92.4	75.2	0.12460	0.801	-89.4	75.1	39.1	36.7	35.7	0.	1-2			
3	2.620	24.516	13.44808	-106.1	-4.8	-91.8	75.1	0.12327	0.810	-88.5	75.1	40.2	35.9	34.6	0.33628	2-3			
4	2.620	24.536	13.80979	-105.4	-5.1	-91.8	75.2	0.12659	0.789	-88.4	75.1	38.1	38.0	36.7	0.61686	3-4			
5	2.608	24.535	13.73971	-103.4	-5.0	-92.9	75.4	0.12594											

RA-VIII CAMERA P2

19

FEB. 20, 1965 9 HR 57 MIN 32 SEC 267 MS TAB NO 73 ATLAS PHOTO NO 15 POD SEQUENCE NO 1650

TRAJECTORY DATA							SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
							4.489	7.93547	2.587	24.369	1743.435	2.648	-41.935	74.109		
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.628	24.559	9.89425	-104.8	-4.9	-92.4	75.2	0.09072	0.801	-89.4	75.1	39.1	36.8	35.8	0.	1-2
3	2.633	24.553	9.79165	-106.1	-4.8	-91.8	75.1	0.08975	0.810	-88.5	75.1	40.2	36.0	34.6	0.24490	2-3
4	2.633	24.567	10.05536	-105.4	-5.1	-91.8	75.2	0.09217	0.788	-88.4	75.1	38.1	38.0	36.8	0.44935	3-4
5	2.624	24.566	10.00421	-103.4	-5.0	-92.9	75.4	0.09170	0.792	-90.3	75.1	38.1	37.6	36.9	0.26968	4-5
6	2.624	24.552	9.74317	-104.1	-4.8	-92.9	75.3	0.08931	0.814	-90.3	75.1	40.2	35.6	34.8	0.44631	5-6
7	2.633	24.553	9.79165	-106.1	-4.8	-91.8	75.1	0.08975	0.810	-88.5	75.1	40.2	36.0	34.6	0.26238	6-7

FEB. 20, 1965 9 HR 57 MIN 33 SEC 107 MS TAB NO 74 ATLAS PHOTO NO 16 POD SEQUENCE NO 1651

TRAJECTORY DATA							SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
							3.649	6.44945	2.602	24.421	1741.949	2.648	-41.902	74.111		
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.636	24.576	8.04522	-104.8	-4.9	-92.4	75.2	0.07377	0.801	-89.4	75.1	39.1	36.8	35.8	0.	1-2
3	2.639	24.571	7.96176	-106.1	-4.8	-91.8	75.1	0.07298	0.809	-88.5	75.1	40.2	36.0	34.7	0.19915	2-3
4	2.639	24.583	8.17630	-105.4	-5.1	-91.8	75.1	0.07495	0.788	-88.4	75.1	38.1	38.0	36.8	0.36545	3-4
5	2.632	24.582	8.13469	-103.5	-5.1	-92.9	75.4	0.07457	0.792	-90.3	75.1	38.1	37.6	36.9	0.21929	4-5
6	2.632	24.570	7.92228	-104.1	-4.8	-92.9	75.3	0.07262	0.814	-90.3	75.1	40.2	35.6	34.8	0.35299	5-6
7	2.639	24.571	7.96176	-106.1	-4.8	-91.8	75.1	0.07298	0.809	-88.5	75.1	40.2	36.0	34.7	0.21335	6-7

FEB. 20, 1965 9 HR 57 MIN 33 SEC 947 MS TAB NO 75 ATLAS PHOTO NO 17 POD SEQUENCE NO 1652

TRAJECTORY DATA							SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
							2.809	4.96384	2.617	24.474	1740.464	2.649	-41.869	74.114		
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.643	24.593	6.19493	-104.8	-4.9	-92.4	75.2	0.05680	0.801	-89.4	75.2	39.1	36.8	35.8	0.	1-2
3	2.646	24.589	6.13062	-106.1	-4.8	-91.8	75.1	0.05620	0.809	-88.5	75.1	40.2	36.0	34.7	0.15337	2-3
4	2.646	24.598	6.29592	-105.4	-5.1	-91.8	75.1	0.05771	0.788	-88.4	75.2	38.1	38.0	36.8	0.28146	3-4
5	2.640	24.598	6.26384	-103.5	-5.1	-92.9	75.4	0.05742	0.792	-90.3	75.2	38.1	37.6	36.9	0.16887	4-5
6	2.640	24.589	6.10020	-104.1	-4.8	-92.9	75.3	0.05592	0.813	-90.3	75.1	40.2	35.6	34.8	0.27955	5-6
7	2.646	24.589	6.13062	-106.1	-4.8	-91.8	75.1	0.05620	0.809	-88.5	75.1	40.2	36.0	34.7	0.16429	6-7

FEB. 20, 1965 9 HR 57 MIN 34 SEC 787 MS TAB NO 76 ATLAS PHOTO NO 18 POD SEQUENCE NO 1653

TRAJECTORY DATA							SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
							1.969	3.47874	2.632	24.526	1738.979	2.650	-41.836	74.116		
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.650	24.610	4.34359	-104.8	-4.9	-92.4	75.2	0.03983	0.800	-89.4	75.2	39.2	36.8	35.8	0.	1-2
3	2.652	24.607	4.29847	-106.1	-4.8	-91.8	75.0	0.03940	0.809	-88.5	75.2	40.2	36.0	34.7	0.10755	2-3
4	2.652	24.614	4.41445	-105.4	-5.1	-91.8	75.1	0.04047	0.788	-88.4	75.2	38.1	38.0	36.8	0.19738	3-4
5	2.648	24.613	4.39193	-103.5	-5.1	-92.9	75.4	0.04026	0.792	-90.3	75.2	38.1	37.7	36.9	0.11841	4-5
6	2.648	24.607	4.27712	-104.1	-4.8	-92.9	75.3	0.03921	0.813	-90.3	75.2	40.2	35.6	34.8	0.19604	5-6
7	2.652	24.607	4.29847	-106.1	-4.8	-91.8	75.0	0.03940	0.809	-88.5	75.2	40.2	36.0	34.7	0.11519	6-7

RA-VIII CAMERA P2

20

FEB. 20, 1965 9 HR 57 MIN 35 SEC 627 MS TAB NO 77 ATLAS PHOTO NO 19 POD SEQUENCE NO 1654

TRAJECTORY DATA							SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
							1.129	1.99408	2.647	24.579	1737.494	2.651	-41.803	74.119		
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.657	24.627	2.49098	-104.8	-4.9	-92.4	75.2	0.02284	0.800	-89.4	75.2	39.2	36.8	35.8	0.	1-2
3	2.658	24.626	2.46509	-106.2	-4.8	-91.8	75.0	0.02260	0.809	-88.5	75.2	40.2	36.0	34.7	0.06168	2-3
4	2.658	24.629	2.53163	-105.4	-5.1	-91.8	75.1	0.02321	0.788	-88.4	75.2	38.1	38.1	36.8	0.11323	3-4
5	2.656	24.629	2.51869	-103.5	-5.1	-92.9	75.4	0.02309	0.792	-90.3	75.2	38.1	37.7	36.9	0.06791	4-5
6	2.656	24.625	2.45282	-104.2	-4.8	-92.9	75.3	0.02248	0.813	-90.3	75.2	40.2	35.6	34.8	0.11245	5-6
7	2.658	24.626	2.46509	-106.2	-4.8	-91.8	75.0	0.02260	0.809	-88.5	75.2	40.2	36.0	34.7	0.06607	6-7

FEB. 20, 1965 9 HR 57 MIN 36 SEC 467 MS TAB NO 78 ATLAS PHOTO NO 20 POD SEQUENCE NO 1655

TRAJECTORY DATA							SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ		
							0.289	0.50983	2.662	24.632	1736.010	2.652	-41.770	74.121		
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.665	24.644	0.63719	-104.8	-4.9	-92.4	75.2	0.00584	0.800	-89.4	75.2	39.2	36.9	35.9	0.	1-2
3	2.665	24.644	0.63056	-106.2	-4.8	-91.8	75.0	0.00578	0.809	-88.5	75.2	40.2	36.1	34.7	0.01578	2-3
4	2.665	24.645	0.64760	-105.4	-5.1	-91.8	75.1	0.00594	0.787	-88.4	75.2	38.1	38.1	36.8	0.02897	3-4
5	2.664	24.645	0.64428	-103.5	-5.1	-92.9	75.4	0.00591	0.791	-90.3	75.2	38.1	37.7	37.0	0.01737	4-5
6	2.664	24.644	0.62742	-104.2	-4.8	-92.9	75.3	0.00575	0.813	-90.3	75.2	40.2	35.7	34.9	0.02876	5-6
7	2.665	24.644	0.63056	-106.2	-4.8	-91.8	75.0	0.00578	0.809	-88.5	75.2	40.2	36.1	34.7	0.01690	6-7

TIME- AND CAMERA-DEPENDENT PARAMETERS

1

FEB. 20, 1965 9 HR 46 MIN 4 SEC 99 MS TAB NO 1 POD SEQUENCE NO 831

TRAJECTORY DATA SEC TO IMPACT ALT LAT LON R V PTH AZ
692.657 1271.71164 -4.521 -0.501 3007.212 2.155 -58.172 74.468

PHOTO DATA
PT LAT LON RANGE AZS/C AZN AZSUN AZA A* B/A AZPHAZ INCD PHAZ EMIS ALPHA SCALE PT-PT
2 -4.846 8.484 1320.85672 -90.0 -1.6 -90.5 0.0 26.83661 0.935 -90.7 58.8 38.1 20.8 20.8 0. 1-2
3 -3.042 6.686 1304.74870 -103.5 -2.3 -90.9 84.4 26.46421 0.957 -87.8 57.0 40.4 17.1 16.5 77.05687 2-3
4 -3.098 10.490 1345.76654 -99.2 -2.1 -90.6 85.2 27.29611 0.905 -87.6 60.8 35.8 25.4 24.9 115.09361 3-4
5 -6.702 10.395 1345.78749 -80.7 -0.6 -90.4 4.9 27.29654 0.905 -93.8 60.8 35.8 25.4 24.8 109.20970 4-5
6 -6.536 6.574 1304.76787 -76.4 -1.3 -90.1 5.6 26.46460 0.957 -93.5 57.0 40.4 17.1 16.4 115.09576 5-6
7 -3.042 6.686 1304.74870 -103.5 -2.3 -90.9 84.4 26.46421 0.957 -87.8 57.0 40.4 17.1 16.5 105.87994 6-7

FEB. 20, 1965 9 HR 46 MIN 17 SEC 539 MS TAB NO 2 ATLAS PHOTO NO 1 POD SEQUENCE NO 847

TRAJECTORY DATA SEC TO IMPACT ALT LAT LON R V PTH AZ
679.217 1247.08844 -4.443 -0.218 2982.588 2.162 -57.978 74.447

PHOTO DATA
PT LAT LON RANGE AZS/C AZN AZSUN AZA A* B/A AZPHAZ INCD PHAZ EMIS ALPHA SCALE PT-PT
2 -4.702 8.818 1297.29904 -90.4 -1.6 -90.6 89.6 26.35798 0.933 -90.7 59.2 38.1 21.1 21.1 0. 1-2
3 -2.932 7.048 1281.25238 -103.6 -2.3 -90.9 84.2 25.98756 0.955 -87.8 57.4 40.4 17.5 16.8 75.72351 2-3
4 -2.984 10.794 1322.25529 -99.4 -2.2 -90.7 84.9 26.81921 0.903 -87.6 61.1 35.8 25.7 25.2 113.30732 3-4
5 -6.525 10.698 1321.97000 -81.3 -0.6 -90.5 4.4 26.81338 0.903 -93.8 61.1 35.8 25.7 25.1 107.28902 4-5
6 -6.362 6.938 1280.99121 -77.3 -1.3 -90.3 5.0 25.98231 0.956 -93.4 57.4 40.4 17.4 16.7 113.27792 5-6
7 -2.932 7.048 1281.25238 -103.6 -2.3 -90.9 84.2 25.98756 0.955 -87.8 57.4 40.4 17.5 16.8 103.96156 6-7

FEB. 20, 1965 4 HR 46 MIN 20 SEC 899 MS TAB NO 3 POD SEQUENCE NO 851

TRAJECTORY DATA SEC TO IMPACT ALT LAT LON R V PTH AZ
675.857 1240.92960 -4.423 -0.146 2976.430 2.163 -57.929 74.442

PHOTO DATA
PT LAT LON RANGE AZS/C AZN AZSUN AZA A* B/A AZPHAZ INCD PHAZ EMIS ALPHA SCALE PT-PT
2 -4.666 8.901 1291.40474 -90.5 -1.6 -90.6 89.5 26.23822 0.932 -90.7 59.3 38.1 21.2 21.2 0. 1-2
3 -2.904 7.139 1275.37462 -103.6 -2.3 -90.9 84.1 25.86833 0.955 -87.8 57.5 40.4 17.6 16.9 75.38980 2-3
4 -2.955 10.870 1316.37015 -99.4 -2.2 -90.7 84.9 26.69983 0.902 -87.6 61.2 35.8 25.8 25.3 112.85964 3-4
5 -6.480 10.774 1316.00975 -81.4 -0.7 -90.6 4.3 26.69247 0.902 -93.8 61.2 35.8 25.7 25.2 106.80853 4-5
6 -6.319 7.029 1275.04480 -77.5 -1.3 -90.3 4.8 25.86169 0.955 -93.4 57.4 40.5 17.5 16.8 112.82241 5-6
7 -2.904 7.139 1275.37462 -103.6 -2.3 -90.9 84.1 25.86833 0.955 -87.8 57.5 40.4 17.6 16.9 103.48188 6-7

FEB. 20, 1965 9 HR 46 MIN 37 SEC 699 MS TAB NO 4 POD SEQUENCE NO 871

TRAJECTORY DATA SEC TO IMPACT ALT LAT LON R V PTH AZ
659.056 1210.11792 -4.322 0.217 2945.618 2.171 -57.681 74.416

PHOTO DATA
PT LAT LON RANGE AZS/C AZN AZSUN AZA A* B/A AZPHAZ INCD PHAZ EMIS ALPHA SCALE PT-PT
2 -4.481 9.313 1261.84778 -91.0 -1.6 -90.7 89.0 25.63769 0.930 -90.6 59.7 38.1 21.6 21.6 0. 1-2
3 -2.762 7.588 1245.93025 -103.8 -2.3 -91.0 83.8 25.27102 0.952 -87.8 57.9 40.4 18.0 17.4 73.71131 2-3
4 -2.808 11.244 1286.84189 -99.6 -2.2 -90.7 84.5 26.10088 0.899 -87.5 61.6 35.8 26.2 25.7 110.60164 3-4
5 -6.253 11.146 1286.09126 -82.0 -0.7 -90.7 3.6 26.08554 0.900 -93.8 61.5 35.8 26.0 25.6 104.39778 4-5
6 -6.097 7.480 1245.24428 -78.6 -1.3 -90.5 4.0 25.25722 0.953 -93.4 57.9 40.5 17.9 17.3 110.52358 5-6
7 -2.762 7.588 1245.93025 -103.8 -2.3 -91.0 83.8 25.27102 0.952 -87.8 57.9 40.4 18.0 17.4 101.07909 6-7

RA-VIII CAMERA P3

2

FEB. 20, 1965 9 HR 46 MIN 54 SEC 499 MS TAB NO 5 POD SEQUENCE NO 891

TRAJECTORY DATA SEC TO IMPACT ALT LAT LON R V PTH AZ
642.256 1179.27756 -4.219 0.587 2914.778 2.179 -57.428 74.390

PHOTO DATA
PT LAT LON RANGE AZS/C AZN AZSUN AZA A* B/A AZPHAZ INCD PHAZ EMIS ALPHA SCALE PT-PT
2 -4.300 9.721 1232.18747 -91.5 -1.6 -90.8 88.5 25.03507 0.927 -90.6 60.1 38.1 22.0 22.0 0. 1-2
3 -2.622 8.033 1216.39502 -103.9 -2.3 -91.1 83.5 24.67188 0.950 -87.8 58.4 40.4 18.5 17.8 72.02564 2-3
4 -2.664 11.612 1257.16307 -99.8 -2.2 -90.8 84.3 25.49887 0.896 -87.5 62.0 35.8 26.5 26.0 108.31807 3-4
5 -6.029 11.514 1256.05806 -82.7 -0.8 -90.9 3.0 25.47629 0.897 -93.8 61.9 35.8 26.4 25.9 101.97761 4-5
6 -5.878 7.926 1215.38646 -79.5 -1.3 -90.6 3.3 24.65158 0.951 -93.4 58.3 40.5 18.2 17.7 108.20233 5-6
7 -2.622 8.033 1216.39502 -103.9 -2.3 -91.1 83.5 24.67188 0.950 -87.8 58.4 40.4 18.5 17.8 98.67150 6-7

FEB. 20, 1965 9 HR 47 MIN 11 SEC 299 MS TAB NO 6 POD SEQUENCE NO 911

TRAJECTORY DATA SEC TO IMPACT ALT LAT LON R V PTH AZ
625.456 1148.40945 -4.113 0.965 2883.909 2.188 -57.170 74.365

PHOTO DATA
PT LAT LON RANGE AZS/C AZN AZSUN AZA A* B/A AZPHAZ INCD PHAZ EMIS ALPHA SCALE PT-PT
2 -4.116 10.131 1202.50356 -92.0 -1.7 -90.9 88.0 24.43196 0.925 -90.6 60.5 38.1 22.4 22.4 0. 1-2
3 -2.479 8.481 1186.85014 -104.0 -2.3 -91.1 83.2 24.07254 0.947 -87.8 58.8 40.4 18.9 18.2 70.33678 2-3
4 -2.517 11.985 1227.45343 -100.0 -2.3 -90.8 83.9 24.89625 0.893 -87.5 62.3 35.8 26.9 26.4 106.03038 3-4
5 -5.802 11.885 1225.98944 -83.3 -0.8 -91.0 2.4 24.86632 0.895 -93.8 62.3 35.9 26.7 26.3 99.55625 4-5
6 -5.656 8.375 1185.51566 -80.5 -1.3 -90.8 2.6 24.04569 0.949 -93.4 58.8 40.5 18.6 18.2 105.87593 5-6
7 -2.479 8.481 1186.85014 -104.0 -2.3 -91.1 83.2 24.07254 0.947 -87.8 58.8 40.4 18.9 18.2 96.26425 6-7

FEB. 20, 1965 4 HR 47 MIN 28 SEC 100 MS TAB NO 7 POD SEQUENCE NO 931

TRAJECTORY DATA SEC TO IMPACT ALT LAT LON R V PTH AZ
608.656 1117.51431 -4.005 1.351 2853.014 2.196 -56.907 74.339

PHOTO DATA
PT LAT LON RANGE AZS/C AZN AZSUN AZA A* B/A AZPHAZ INCD PHAZ EMIS ALPHA SCALE PT-PT
2 -3.930 10.545 1172.79207 -92.4 -1.7 -91.1 87.6 23.82830 0.922 -90.6 60.9 38.1 22.8 22.8 0. 1-2
3 -2.336 8.932 1157.28293 -104.2 -2.3 -91.2 82.9 23.47274 0.945 -87.8 59.3 40.4 19.4 18.7 68.64623 2-3
4 -2.369 12.359 1197.69824 -100.2 -2.3 -90.9 83.7 24.29269 0.890 -87.5 62.7 35.8 27.3 26.8 103.73673 3-4
5 -5.574 12.258 1195.89085 -83.9 -0.9 -91.2 1.8 24.25575 0.892 -93.8 62.6 35.9 27.0 26.7 97.13322 4-5
6 -5.433 8.827 1155.63757 -81.5 -1.3 -91.0 1.9 23.43964 0.947 -93.4 59.2 40.5 19.0 18.6 103.54465 5-6
7 -2.336 8.932 1157.28293 -104.2 -2.3 -91.2 82.9 23.47274 0.945 -87.8 59.3 40.4 19.4 18.7 93.85687 6-7

FEB. 20,1965 9 HR 47 MIN 44 SEC 900 MS TAB NO 8 POD SEQUENCE NO 951

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				591.856	1086.59314	-3.895	1.746	2822.093	2.205	-56.640	74.314					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.745	10.961	1143.04840	-92.9	-1.8	-91.2	87.1	23.22398	0.919	-90.6	61.3	38.1	23.2	23.2	0.	1- 2
3	-2.192	9.385	1127.68912	-104.3	-2.4	-91.2	82.6	22.87241	0.942	-87.8	59.7	40.4	19.9	19.1	66.95370	2- 3
4	-2.221	12.736	1167.89149	-100.4	-2.4	-90.9	83.4	23.68810	0.887	-87.5	63.1	35.8	27.7	27.1	101.43596	3- 4
5	-5.346	12.634	1165.75726	-84.5	-1.0	-91.3	1.2	23.64447	0.889	-93.8	63.0	35.9	27.4	27.1	94.70777	4- 5
6	-5.209	9.281	1125.74878	-82.4	-1.4	-91.1	1.2	22.83338	0.945	-93.4	59.7	40.5	19.4	19.1	101.20743	5- 6
7	-2.192	9.385	1127.68912	-104.3	-2.4	-91.2	82.6	22.87241	0.942	-87.8	59.7	40.4	19.9	19.1	91.44914	6- 7

RA-VIII CAMERA P3

3

FEB. 20,1965 9 HR 48 MIN 1 SEC 700 MS TAB NO 9 POD SEQUENCE NO 971

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				575.055	1055.64697	-3.782	2.149	2791.147	2.213	-56.366	74.288					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.559	11.377	1113.25116	-93.3	-1.8	-91.5	86.7	22.01057	0.915	-90.6	61.7	38.1	23.7	23.6	0.	1- 2
3	-2.048	9.840	1098.05030	-104.4	-2.4	-91.2	82.3	22.27118	0.939	-87.8	60.2	40.4	20.4	19.6	65.25114	2- 3
4	-2.073	13.114	1138.00677	-100.6	-2.4	-91.0	83.1	23.08192	0.883	-87.5	63.5	35.8	28.1	27.5	99.12287	3- 4
5	-5.118	13.011	1135.56319	-85.1	-1.0	-91.5	0.7	23.03196	0.887	-93.8	63.4	35.8	27.7	27.5	92.27786	4- 5
6	-4.986	9.737	1095.83226	-83.3	-1.4	-91.3	0.6	22.22656	0.942	-93.4	60.1	40.5	19.8	19.6	98.85920	5- 6
7	-2.048	9.840	1098.05090	-104.4	-2.4	-91.2	82.3	22.27118	0.939	-87.8	60.2	40.4	20.4	19.6	89.03923	6- 7

FEB. 20,1965 9 HR 48 MIN 18 SEC 500 MS TAB NO 10 POD SEQUENCE NO 991

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				558.255	1024.67685	-3.666	2.562	2760.177	2.222	-56.087	74.263					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.373	11.794	1083.38231	-93.8	-1.9	-91.3	86.2	22.01171	0.913	-90.6	62.1	38.1	24.1	24.1	0.	1- 2
3	-1.904	10.294	1068.35349	-104.5	-2.4	-91.3	82.0	21.66875	0.936	-87.7	60.7	40.4	20.9	20.0	63.55497	2- 3
4	-1.925	13.492	1108.02271	-100.8	-2.5	-91.0	82.8	22.47373	0.880	-87.5	63.9	35.8	28.5	27.9	96.79317	3- 4
5	-4.890	13.387	1105.28680	-85.7	-1.1	-91.6	0.1	22.41778	0.884	-93.8	63.7	35.8	28.1	27.8	89.84168	4- 5
6	-4.762	10.192	1065.87263	-84.1	-1.4	-91.5	89.9	21.61887	0.940	-93.4	60.6	40.5	20.3	20.0	96.49571	5- 6
7	-1.904	10.294	1068.35349	-104.5	-2.4	-91.3	82.0	21.66875	0.936	-87.7	60.7	40.4	20.9	20.0	86.62624	6- 7

FEB. 20,1965 9 HR 48 MIN 35 SEC 300 MS TAB NO 11 POD SEQUENCE NO 1011

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				541.455	993.68411	-3.547	2.984	2729.184	2.231	-55.803	74.238					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.185	12.210	1053.43927	-94.2	-1.9	-91.4	85.8	21.40334	0.910	-90.6	62.6	38.1	24.5	24.5	0.	1- 2
3	-1.757	10.749	1038.60214	-104.6	-2.5	-91.3	81.7	21.06523	0.933	-87.7	61.1	40.4	21.3	20.5	61.84514	2- 3
4	-1.775	13.868	1077.94432	-101.0	-2.5	-91.0	82.6	21.86363	0.877	-87.5	64.2	35.8	28.9	28.3	94.44671	3- 4
5	-4.658	13.762	1074.91698	-86.2	-1.2	-91.8	89.6	21.80171	0.881	-93.7	64.1	35.8	28.4	28.2	87.39937	4- 5
6	-4.535	10.647	1035.86053	-84.9	-1.5	-91.6	89.3	21.01011	0.937	-93.4	61.0	40.5	20.7	20.5	94.11509	5- 6
7	-1.757	10.749	1038.60214	-104.6	-2.5	-91.3	81.7	21.06523	0.933	-87.7	61.1	40.4	21.3	20.5	84.21003	6- 7

FEB. 20,1965 9 HR 48 MIN 52 SEC 101 MS TAB NO 12 POD SEQUENCE NO 1031

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				524.655	962.67023	-3.426	3.415	2698.170	2.240	-55.512	74.214					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.995	12.626	1023.41498	-94.6	-2.0	-91.5	85.4	20.79332	0.907	-90.6	63.0	38.1	24.9	24.9	0.	1- 2
3	-1.609	11.203	1008.78381	-104.8	-2.5	-91.4	81.5	20.46035	0.930	-87.7	61.6	40.4	21.8	21.0	60.12870	2- 3
4	-1.624	14.245	1047.75691	-101.1	-2.6	-91.1	82.3	21.25132	0.873	-87.5	64.6	35.8	29.3	28.6	92.08146	3- 4
5	-4.426	14.137	1044.45306	-86.8	-1.3	-91.9	89.0	21.18374	0.878	-93.7	64.5	35.8	28.8	28.6	84.94992	4- 5
6	-4.308	11.102	1005.79562	-85.7	-1.5	-91.8	88.7	20.40029	0.934	-93.4	61.5	40.5	21.1	21.0	91.71680	5- 6
7	-1.609	11.203	1008.78381	-104.8	-2.5	-91.4	81.5	20.46035	0.930	-87.7	61.6	40.4	21.8	21.0	81.79007	6- 7

RA-VIII CAMERA P3

4

FEB. 20,1965 9 HR 49 MIN 8 SEC 901 MS TAB NO 13 POD SEQUENCE NO 1051

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				507.855	931.63626	-3.301	3.856	2667.136	2.250	-55.215	74.190					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-2.805	13.037	993.25076	-95.0	-2.0	-91.6	85.0	20.18045	0.904	-90.6	63.4	38.1	25.4	25.3	0.	1- 2
3	-1.461	11.654	978.84650	-104.9	-2.5	-91.4	81.2	19.85307	0.927	-87.7	62.0	40.4	22.3	21.4	58.40054	2- 3
4	-1.472	14.615	1017.38723	-101.3	-2.7	-91.1	82.0	20.63531	0.870	-87.5	65.0	35.8	29.7	29.0	89.68325	3- 4
5	-4.193	14.506	1019.82859	-87.4	-1.3	-92.1	88.5	20.56251	0.875	-93.7	64.9	35.8	29.1	29.0	82.48722	4- 5
6	-4.079	11.553	975.63176	-86.5	-1.6	-91.9	88.1	19.78846	0.932	-93.4	61.9	40.5	21.5	21.4	89.28761	5- 6
7	-1.461	11.654	978.84650	-104.9	-2.5	-91.4	81.2	19.85307	0.927	-87.7	62.0	40.4	22.3	21.4	79.36164	6- 7

FEB. 20,1965 4 HR 49 MIN 25 SEC 701 MS															TAB NO 14			POD SEQUENCE NO 1071												
TRAJECTORY DATA															SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA															491.054		900.58408		-3.173		4.308		2636.084		2.259		-54.912		74.166	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT														
2	-2.620	13.446	962.96794	-95.4	-2.1	-91.7	84.6	19.56518	0.900	-90.6	63.8	38.1	25.8	25.7	0.	1- 2														
3	-1.318	12.102	948.79883	-105.0	-2.6	-91.4	81.0	19.24355	0.924	-87.7	62.5	40.4	22.8	21.8	56.66484	2- 3														
4	-1.326	14.983	986.85485	-101.5	-2.7	-91.1	81.8	20.01601	0.866	-87.4	65.4	35.8	30.1	29.4	87.25721	3- 4														
5	-3.965	14.873	983.07913	-87.9	-1.4	-92.2	88.0	19.93876	0.872	-93.7	65.2	35.8	29.5	29.4	80.01280	4- 5														
6	-3.856	12.002	945.34191	-87.2	-1.6	-92.1	87.6	19.17508	0.929	-93.3	62.4	40.5	22.0	21.9	86.83445	5- 6														
7	-1.318	12.102	948.79883	-105.0	-2.6	-91.4	81.0	19.24355	0.924	-87.7	62.5	40.4	22.8	21.8	76.92561	6- 7														
FEB. 20,1965 4 HR 49 MIN 42 SEC 501 MS															TAB NO 15			POD SEQUENCE NO 1091												
TRAJECTORY DATA															SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA															474.254		869.51514		-3.042		4.770		2605.015		2.269		-54.602		74.143	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT														
2	-2.432	12.857	932.61948	-95.8	-2.1	-91.8	84.2	18.94857	0.897	-90.5	64.2	38.1	26.2	26.1	0.	1- 2														
3	-1.172	12.552	918.69961	-105.1	-2.6	-91.4	80.7	18.63299	0.920	-87.7	62.9	40.4	23.2	22.3	54.92300	2- 3														
4	-1.177	15.353	956.23911	-101.7	-2.8	-91.2	81.5	19.39501	0.863	-87.4	65.7	35.8	30.5	29.7	84.81685	3- 4														
5	-3.734	15.242	952.25184	-88.4	-1.5	-92.3	87.5	19.31342	0.869	-93.7	65.6	35.9	29.8	29.7	77.53300	4- 5														
6	-3.629	12.453	915.10600	-87.9	-1.7	-92.2	87.1	18.56078	0.926	-93.3	62.8	40.5	22.4	22.3	84.36719	5- 6														
7	-1.172	12.552	918.69961	-105.1	-2.6	-91.4	80.7	18.63299	0.920	-87.7	62.9	40.4	23.2	22.3	74.48651	6- 7														
FEB. 20,1965 4 HR 49 MIN 43 SEC 341 MS															TAB NO 16			ATLAS PHOTO NO 2		POD SEQUENCE NO 1092										
TRAJECTORY DATA															SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA															473.414		867.96130		-3.035		4.794		2603.461		2.270		-54.587		74.141	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT														
2	-2.422	13.878	931.10214	-95.8	-2.1	-91.8	84.2	18.91774	0.897	-90.5	64.2	38.1	26.2	26.1	0.	1- 2														
3	-1.164	12.575	917.19520	-105.1	-2.6	-91.4	80.7	18.60247	0.920	-87.7	63.0	40.4	23.3	22.3	54.83582	2- 3														
4	-1.169	15.372	954.70870	-101.7	-2.8	-91.2	81.5	19.36397	0.863	-87.4	65.8	35.8	30.5	29.7	84.69491	3- 4														
5	-3.722	15.261	950.71014	-88.4	-1.5	-92.3	87.5	19.28215	0.869	-93.7	65.6	35.8	29.8	29.7	77.40910	4- 5														
6	-3.617	12.476	913.59167	-88.0	-1.7	-92.2	87.0	18.53007	0.926	-93.3	62.8	40.5	22.4	22.3	84.24380	5- 6														
7	-1.164	12.575	917.19520	-105.1	-2.6	-91.4	80.7	18.60247	0.920	-87.7	63.0	40.4	23.3	22.3	74.36466	6- 7														
RA-VIII CAMERA P3																									5					
FEB. 20,1965 4 HR 49 MIN 59 SEC 301 MS															TAB NO 17			POD SEQUENCE NO 1111												
TRAJECTORY DATA															SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA															457.454		838.43149		-2.908		5.244		2573.931		2.279		-54.286		74.120	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT														
2	-2.241	14.268	902.17704	-96.2	-2.2	-91.9	83.8	18.33006	0.894	-90.5	64.6	38.1	26.2	26.5	0.	1- 2														
3	-1.023	13.003	888.52563	-105.2	-2.7	-91.5	80.5	18.02091	0.917	-87.7	63.4	40.5	23.7	22.7	53.17224	2- 3														
4	-1.026	15.722	925.50658	-101.9	-2.9	-91.2	81.3	18.77165	0.860	-87.4	66.1	35.8	30.9	30.1	82.35536	3- 4														
5	-3.501	15.610	921.31252	-88.9	-1.6	-92.5	87.0	18.68582	0.866	-93.7	66.0	35.9	30.2	30.1	75.04519	4- 5														
6	-3.400	12.904	884.75000	-88.6	-1.7	-92.3	86.5	17.94506	0.923	-93.3	63.3	40.5	22.8	22.8	81.87900	5- 6														
7	-1.023	13.003	888.52563	-105.2	-2.7	-91.5	80.5	18.02091	0.917	-87.7	63.4	40.5	23.7	22.7	72.04268	6- 7														
FEB. 20,1965 4 HR 50 MIN 16 SEC 102 MS															TAB NO 18			POD SEQUENCE NO 1131												
TRAJECTORY DATA															SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA															440.654		807.33499		-2.770		5.729		2542.835		2.289		-53.962		74.097	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT														
2	-2.053	14.681	871.66609	-96.5	-2.3	-91.9	83.5	17.71015	0.889	-90.5	65.1	38.1	27.1	26.9	0.	1- 2														
3	-0.877	13.456	858.28495	-105.3	-2.7	-91.5	80.2	17.40749	0.914	-87.7	63.8	40.5	24.2	23.2	51.41801	2- 3														
4	-0.877	16.094	894.67693	-102.0	-2.9	-91.2	81.0	18.14632	0.856	-87.4	66.5	35.8	31.3	30.5	79.87667	3- 4														
5	-3.269	15.981	890.30609	-89.5	-1.7	-92.6	86.6	18.05686	0.863	-93.7	66.3	35.8	30.5	30.5	72.55045	4- 5														
6	-3.172	13.359	854.35479	-89.3	-1.8	-92.5	86.0	17.32854	0.920	-93.3	63.7	40.5	23.3	23.2	79.37861	5- 6														
7	-0.877	13.456	858.28495	-105.3	-2.7	-91.5	80.2	17.40749	0.914	-87.7	63.8	40.5	24.2	23.2	69.59429	6- 7														
FEB. 20,1965 4 HR 50 MIN 32 SEC 902 MS															TAB NO 19			POD SEQUENCE NO 1151												
TRAJECTORY DATA															SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA															423.854		776.22794		-2.628		6.226		2511.728		2.300		-53.631		74.076	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT														
2	-1.865	15.094	841.05003	-96.9	-2.4	-92.0	83.1	17.08810	0.887	-90.5	65.5	38.1	27.5	27.4	0.	1- 2														
3	-0.731	13.910	827.95140	-105.4	-2.8	-91.5	80.0	16.79218	0.910	-87.7	64.3	40.4	24.7	23.6	49.65587	2- 3														
4	-0.728	16.465	863.71100	-102.2	-3.0	-91.2	80.8	17.51823	0.852	-87.4	66.9	35.8	31.7	30.8	77.37832	3- 4														
5	-3.038	16.351	839.18417	-90.0	-1.8	-92.7	86.1	17.42557	0.859	-93.7	66.7	35.8	30.9	30.9	70.04574	4- 5														
6	-2.946	13.812	823.88570	-89.9	-1.9	-92.6	85.6	16.71052	0.917	-93.3	64.2	40.5	23.7	23.7	76.85661	5- 6														
7	-0.731	13.910	827.95140	-105.4	-2.8	-91.5	80.0	16.79218	0.910	-87.7	64.3	40.4	24.7	23.6	67.13935	6- 7														
FEB. 20,1965 4 HR 50 MIN 49 SEC 702 MS															TAB NO 20			POD SEQUENCE NO 1171												
TRAJECTORY DATA															SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA															407.053		745.11249		-2.483		6.735		2480.612		2.310		-53.293		74.055	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT														
2	-1.677	15.506	810.29818	-97.2	-2.4	-92.1	82.8	16.46330	0.884	-90.5	65.9	38.1	27.9	27.8	0.	1- 2														
3	-0.585	14.362	797.49841	-105.5	-2.8	-91.5	79.8	16.71446	0.907	-87.6	64.8	40.4	25.2	24.1	47.88293	2- 3														
4	-0.580	16.833	832.57272	-102.3	-3.1	-91.3	80.6	16.88664	0.849	-87.4	67.2	35.8	32.1	31.2	74.84724	3- 4														
5	-2.806	16.719	793.31657	-90.4	-1.9	-92.8	85.7	16.79121	0.856	-93.7	67.1	35.8	31.3	31.2	67.52792	4- 5														
6	-2.718	14.265	793.31657	-90.6	-1.9	-92.7	85.1	16.09048	0.914	-93.3	64.6	40.5	24.2	24.1	74.30618	5- 6														
7	-0.585	14.362	797.49841	-105.5	-2.8	-91.5	79.8	16.71446	0.907	-87.6	64.8	40.4	25.2	24.1	64.67543	6- 7														

RA-VIII CAMERA P3

6

FEB. 20,1965 9 HR 51 MIN 6 SEC 502 MS

TAB NO 21

POD SEQUENCE NO 1191

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				390.253		713.99106		-2.334		7.258		2449.491		2.321		-52.946		74.034	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-1.489	15.909	779.31682	-97.6	-2.5	-92.2	82.4	15.83383	0.880	-90.5	66.3	38.1	28.3	28.2	0.	1-2			
3	-0.440	14.807	766.84545	-105.6	-2.9	-91.5	79.6	15.55269	0.903	-87.6	65.2	40.5	25.6	24.5	46.09081	2-3			
4	-0.433	17.192	801.15091	-102.5	-3.2	-91.3	80.3	16.24931	0.845	-87.4	67.6	35.8	32.5	31.6	72.26356	3-4			
5	-2.576	17.078	796.37865	-90.9	-2.0	-92.9	85.2	16.15160	0.853	-93.6	67.5	35.9	31.6	31.6	64.98783	4-5			
6	-2.491	14.710	762.56842	-91.2	-2.0	-92.8	84.6	15.46681	0.911	-93.3	65.1	40.5	24.6	24.6	71.70600	5-6			
7	-0.440	14.807	766.84545	-105.6	-2.9	-91.5	79.6	15.55269	0.903	-87.6	65.2	40.5	25.6	24.5	62.19587	6-7			

FEB. 20,1965 9 HR 51 MIN 12 SEC 382 MS

TAB NO 22

ATLAS PHOTO NO 3

POD SEQUENCE NO 1198

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				384.373		703.09766		-2.281		7.443		2438.598		2.325		-52.823		74.027	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-1.422	16.052	768.47900	-97.7	-2.6	-92.2	82.3	15.61363	0.879	-90.5	66.4	38.1	28.5	28.3	0.	1-2			
3	-0.388	14.964	756.12283	-105.7	-2.9	-91.5	79.5	15.33519	0.902	-87.6	65.4	40.5	25.8	24.7	45.46399	2-3			
4	-0.381	17.320	790.16016	-102.6	-3.2	-91.3	80.3	16.02638	0.844	-87.4	67.7	35.8	32.6	31.7	71.36107	3-4			
5	-2.494	17.206	785.34866	-91.1	-2.1	-92.9	85.1	15.97966	0.852	-93.6	67.6	35.9	31.7	31.7	64.09977	4-5			
6	-2.411	14.868	751.81226	-91.4	-2.0	-92.9	84.5	15.24864	0.910	-93.3	65.2	40.5	24.8	24.8	70.77752	5-6			
7	-0.388	14.964	756.12283	-105.7	-2.9	-91.5	79.5	15.33519	0.902	-87.6	65.4	40.5	25.8	24.7	61.32886	6-7			

FEB. 20,1965 9 HR 51 MIN 23 SEC 302 MS

TAB NO 23

POD SEQUENCE NO 1211

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				373.453		682.86664		-2.180		7.793		2418.367		2.332		-52.592		74.015	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-1.299	16.319	748.30665	-97.9	-2.6	-92.2	82.1	15.20378	0.876	-90.5	66.7	38.1	28.8	28.6	0.	1-2			
3	-0.292	15.258	736.16859	-105.7	-2.9	-91.5	79.4	14.93043	0.899	-87.6	65.7	40.5	26.1	25.0	44.29656	2-3			
4	-0.283	17.558	769.69166	-102.7	-3.3	-91.3	80.1	15.61122	0.841	-87.4	68.0	35.8	32.9	31.9	69.67494	3-4			
5	-2.342	17.444	764.81590	-91.4	-2.1	-93.1	84.8	15.51137	0.850	-93.6	67.8	35.8	32.0	32.0	62.44597	4-5			
6	-2.261	15.162	731.80350	-91.8	-2.1	-92.9	84.2	14.84280	0.907	-93.3	65.5	40.5	25.1	25.1	69.10131	5-6			
7	-0.292	15.258	736.16859	-105.7	-2.9	-91.5	79.4	14.93043	0.899	-87.6	65.7	40.5	26.1	25.0	59.71545	6-7			

FEB. 20,1965 9 HR 51 MIN 40 SEC 103 MS

TAB NO 24

POD SEQUENCE NO 1231

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				356.653		651.74191		-2.023		8.343		2387.242		2.344		-52.229		73.996	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-1.112	16.726	717.13007	-98.2	-2.7	-92.3	81.8	14.57035	0.873	-90.5	67.1	38.1	29.2	29.0	0.	1-2			
3	-0.148	15.707	705.33822	-105.8	-3.0	-91.6	79.2	14.30507	0.896	-87.6	66.1	40.5	26.6	25.4	42.49051	2-3			
4	-0.137	17.920	738.02104	-102.8	-3.3	-91.3	79.9	14.96884	0.838	-87.4	68.3	35.8	33.3	32.3	67.04926	3-4			
5	-2.111	17.806	733.07541	-91.9	-2.3	-93.2	84.3	14.86755	0.846	-93.6	68.2	35.8	32.4	32.3	59.88698	4-5			
6	-2.035	15.612	700.91512	-92.3	-2.2	-93.1	83.7	14.21629	0.904	-93.3	66.0	40.5	25.5	25.5	66.46343	5-6			
7	-0.148	15.707	705.33822	-105.8	-3.0	-91.6	79.2	14.30507	0.896	-87.6	66.1	40.5	26.6	25.4	57.22270	6-7			

RA-VIII CAMERA P3

7

FEB. 20,1965 9 HR 51 MIN 56 SEC 903 MS

TAB NO 25

POD SEQUENCE NO 1251

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				339.853		620.62018		-1.861		8.907		2356.120		2.355		-51.857		73.979	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-0.924	17.132	685.81246	-98.5	-2.8	-92.3	81.5	13.93405	0.869	-90.5	67.5	38.1	29.6	29.4	0.	1-2			
3	-0.003	16.155	674.38400	-105.9	-3.1	-91.6	79.0	13.67720	0.892	-87.6	66.6	40.5	27.1	25.9	40.67293	2-3			
4	0.009	18.281	706.17747	-103.0	-3.4	-91.3	79.7	14.32296	0.834	-87.3	68.7	35.8	33.6	32.6	64.39265	3-4			
5	-1.879	18.168	701.17833	-92.3	-2.4	-93.3	83.9	14.22056	0.843	-93.6	68.6	35.8	32.7	32.7	57.31474	4-5			
6	-1.807	16.062	669.91757	-92.9	-2.3	-93.2	83.3	13.58756	0.901	-93.3	66.5	40.5	26.0	26.0	63.79650	5-6			
7	-0.003	16.155	674.38400	-105.9	-3.1	-91.6	79.0	13.67720	0.892	-87.6	66.6	40.5	27.1	25.9	54.72056	6-7			

FEB. 20,1965 9 HR 52 MIN 13 SEC 703 MS

TAB NO 26

POD SEQUENCE NO 1271

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				323.052		589.50479		-1.695		9.486		2325.005		2.367		-51.476		73.963	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-0.736	17.538	654.33708	-98.8	-2.9	-92.4	81.2	13.29455	0.865	-90.4	67.9	38.1	30.1	29.8	0.	1-2			
3	0.142	16.603	643.28773	-106.0	-3.2	-91.6	78.8	13.04646	0.888	-87.6	67.0	40.4	27.5	26.3	38.84331	2-3			
4	0.156	18.640	674.13918	-103.1	-3.5	-91.3	79.5	13.67312	0.830	-87.3	69.1	35.8	34.0	33.0	61.70160	3-4			
5	-1.647	18.528	669.10944	-92.8	-2.5	-93.4	83.5	13.57009	0.839	-93.6	68.9	35.8	33.1	33.1	54.72691	4-5			
6	-1.579	16.511	638.79839	-93.4	-2.4	-93.3	82.9	12.95637	0.897	-93.2	66.9	40.5	26.4	26.4	61.09781	5-6			
7	0.142	16.603	643.28773	-106.0	-3.2	-91.6	78.8	13.04646	0.888	-87.6	67.0	40.4	27.5	26.3	52.20713	6-7			

FEB. 20,1965 9 HR 52 MIN 30 SEC 503 MS

TAB NO 27

POD SEQUENCE NO 1291

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				306.252		558.39932		-1.524		10.081		2293.899		2.379		-51.086		73.947	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-0.548	17.941	622.68145	-99.1	-3.0	-92.4	80.9	12.65138	0.862	-90.4	68.4	38.1	30.5	30.2	0.	1-2			
3	0.287	17.049	612.02909	-106.1	-3.2	-91.6	78.6	12.41243	0.884	-87.6	67.5	40.4	28.0	26.8	36.99966	2-3			
4	0.302	18.996	641.88036	-103.3	-3.6	-91.3	79.3	13.01882	0.826										

FEB. 20, 1965 9 HR 52 MIN 47 SEC 303 MS TAB NO 28 POD SEQUENCE NO 1311

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				289.452	527.30798	-1.348	10.692	2262.808	2.391	-50.685	73.934					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-0.366	18.339	590.78856	-99.4	-3.1	-92.5	80.6	12.00340	0.858	-90.4	68.8	38.1	30.9	30.6	0.	1-2
3	0.426	17.491	580.54831	-106.1	-3.3	-91.6	78.5	11.77390	0.880	-87.6	67.9	40.5	28.5	27.2	35.13947	2-3
4	0.441	19.346	609.32694	-103.4	-3.7	-91.4	79.1	12.35855	0.823	-87.3	69.8	35.8	34.8	33.7	56.18920	3-4
5	-1.189	19.236	604.32721	-93.6	-2.8	-93.6	82.7	12.25610	0.832	-93.6	69.6	35.8	33.8	33.8	49.49043	4-5
6	-1.128	17.402	576.09377	-94.4	-2.6	-93.5	82.1	11.68454	0.890	-93.2	67.8	40.5	27.3	27.3	55.58147	5-6
7	0.426	17.491	580.54831	-106.1	-3.3	-91.6	78.5	11.77390	0.880	-87.6	67.9	40.5	28.5	27.2	47.13512	6-7

RA-VIII CAMERA P3

8

FEB. 20, 1965 9 HR 53 MIN 4 SEC 104 MS TAB NO 29 POD SEQUENCE NO 1331

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				272.652	496.23486	-1.167	11.320	2231.735	2.404	-50.275	73.922					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-0.186	18.736	558.72375	-99.6	-3.2	-92.6	80.4	11.35192	0.854	-90.4	69.2	38.1	31.3	31.0	0.	1-2
3	0.563	17.933	548.90858	-106.2	-3.4	-91.6	78.3	11.13216	0.877	-87.6	68.4	40.5	28.9	27.7	33.26698	2-3
4	0.579	19.695	576.56356	-103.5	-3.8	-91.4	78.9	11.69401	0.819	-87.3	70.1	35.8	35.2	34.1	53.37092	3-4
5	-0.963	19.587	571.62804	-94.0	-2.9	-93.7	82.4	11.59287	0.829	-93.6	70.0	35.8	34.2	34.2	46.84198	4-5
6	-0.906	17.846	544.51495	-94.8	-2.7	-93.6	81.8	11.04403	0.886	-93.2	68.3	40.5	27.8	27.8	52.76737	5-6
7	0.563	17.933	548.90858	-106.2	-3.4	-91.6	78.3	11.13216	0.877	-87.6	68.4	40.5	28.9	27.7	44.57635	6-7

FEB. 20, 1965 9 HR 53 MIN 20 SEC 904 MS TAB NO 30 POD SEQUENCE NO 1351

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				255.852	465.18472	-0.981	11.966	2200.685	2.417	-49.854	73.911					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-0.005	19.132	526.46691	-99.9	-3.3	-92.6	80.1	10.69653	0.850	-90.4	69.6	38.1	31.8	31.4	0.	1-2
3	0.700	18.373	517.09375	-106.2	-3.4	-91.6	78.2	10.48687	0.873	-87.6	68.8	40.5	29.4	28.1	31.37991	2-3
4	0.717	20.041	543.56903	-103.7	-3.9	-91.4	78.7	11.02479	0.815	-87.3	70.5	35.8	35.5	34.4	50.51218	3-4
5	-0.738	19.935	538.72186	-94.4	-3.0	-93.8	82.0	10.92545	0.825	-93.6	70.4	35.8	34.5	34.5	44.17431	4-5
6	-0.684	18.288	512.78228	-95.3	-2.8	-93.7	81.5	10.40040	0.882	-93.2	68.7	40.5	28.2	28.2	49.91593	5-6
7	0.700	18.373	517.09375	-106.2	-3.4	-91.6	78.2	10.48687	0.873	-87.6	68.8	40.5	29.4	28.1	42.00297	6-7

FEB. 20, 1965 9 HR 53 MIN 37 SEC 704 MS TAB NO 31 POD SEQUENCE NO 1371

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				239.051	434.16257	-0.789	12.630	2169.663	2.430	-49.422	73.902					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.175	19.526	493.99531	-100.1	-3.4	-92.7	79.9	10.03679	0.846	-90.5	70.0	38.1	32.2	31.8	0.	1-2
3	0.836	18.812	485.08374	-106.3	-3.5	-91.6	78.0	9.83763	0.869	-87.6	69.3	40.5	29.9	28.5	29.47605	2-3
4	0.853	20.384	510.31808	-103.8	-4.0	-91.4	78.6	10.35037	0.811	-87.4	70.9	35.8	35.9	34.8	47.60826	3-4
5	-0.513	20.281	505.58292	-94.8	-3.1	-93.9	81.7	10.25332	0.822	-93.6	70.7	35.8	34.9	34.9	41.48512	4-5
6	-0.462	18.729	480.87513	-95.7	-2.9	-93.8	81.1	9.75324	0.879	-93.3	69.2	40.5	28.7	28.7	47.02247	5-6
7	0.836	18.812	485.08374	-106.3	-3.5	-91.6	78.0	9.83763	0.869	-87.6	69.3	40.5	29.9	28.5	39.41327	6-7

FEB. 20, 1965 9 HR 53 MIN 54 SEC 504 MS TAB NO 32 POD SEQUENCE NO 1391

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				222.251	403.17383	-0.592	13.314	2138.674	2.443	-48.978	73.896					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.357	19.918	461.32375	-100.4	-3.5	-92.7	79.6	9.37298	0.843	-90.5	70.4	38.1	32.6	32.2	0.	1-2
3	0.974	19.250	452.89380	-106.3	-3.6	-91.6	77.9	9.18475	0.865	-87.6	69.7	40.4	30.3	29.0	27.55636	2-3
4	0.991	20.724	476.83162	-103.9	-4.1	-91.4	78.4	9.67118	0.808	-87.4	71.2	35.8	36.3	35.1	44.66299	3-4
5	-0.285	20.625	472.22590	-95.2	-3.3	-94.0	81.3	9.57677	0.818	-93.6	71.1	35.8	35.2	35.2	38.77658	4-5
6	-0.239	19.170	448.80334	-96.1	-3.0	-93.9	80.8	9.10273	0.875	-93.3	69.6	40.5	29.1	29.1	44.08997	5-6
7	0.974	19.250	452.89380	-106.3	-3.6	-91.6	77.9	9.18475	0.865	-87.6	69.7	40.4	30.3	29.0	36.80868	6-7

RA-VIII CAMERA P3

9

FEB. 20, 1965 9 HR 54 MIN 11 SEC 304 MS TAB NO 33 POD SEQUENCE NO 1411

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				205.451	372.22430	-0.389	14.018	2107.724	2.457	-48.522	73.891					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.538	20.304	428.37034	-100.6	-3.6	-92.8	79.4	8.70345	0.839	-90.5	70.8	38.1	33.0	32.6	0.	1-2
3	1.111	19.682	420.44662	-106.4	-3.7	-91.6	77.7	8.52666	0.861	-87.6	70.2	40.5	30.8	29.4	25.61478	2-3
4	1.127	21.058	443.01132	-104.0	-4.1	-91.4	78.2	8.98522	0.804	-87.4	71.5	35.8	36.6	35.4	41.65859	3-4
5	-0.059	20.962	438.56361	-95.6	-3.4	-94.1	81.0	8.89404	0.815	-93.6	71.4	35.8	35.6	35.6	36.03983	4-5
6	-0.015	19.606	416.49907	-96.5	-3.1	-93.9	80.5	8.44752	0.871	-93.3	70.1	40.5	29.6	29.6	41.10237	5-6
7	1.111	19.682	420.44662	-106.4	-3.7	-91.6	77.7	8.52666	0.861	-87.6	70.2	40.5	30.8	29.4	34.18246	6-7

FEB. 20, 1965 9 HR 54 MIN 28 SEC 105 MS TAB NO 34 POD SEQUENCE NO 1431

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				188.651	341.32031	-0.180	14.742	2076.820	2.471	-48.054	73.889					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.718	20.689	395.19044	-100.9	-3.7	-92.8	79.1	8.02931	0.835	-90.5	71.2	38.1	33.4	33.0	0.	1-2
3	1.246	20.114	387.78962	-106.5	-3.8	-91.5	77.6	7.86432	0.856	-87.6	70.6	40.5	31.2	29.9	23.65649	2-3
4	1.262	21.389	408.92316	-104.1	-4.3	-91.4	78.1	8.29383	0.800	-87.4	71.9	35.8	37.0	35.8	38.60846	3-4
5	0.168	21.297	404.66065	-95.9	-3.6	-94.2	80.7	8.20643	0.811	-93.6	71.7	35.8	35.9	35.9	33.27980	4-5
6	0.207	20.041	384.00883	-97.0	-3.2	-94.0	80.2	7.78853	0.867	-93.3	70.5	40.5	30.0	30.0	38.07267	5-6
7	1.246	20.114	387.78962	-106.5	-3.8	-91.5	77.6	7.86432	0.856	-87.6	70.6	40.5	31.2	29.9	31.53798	6-7

FEB. 20,1965 9 HR 54 MIN 44 SEC 905 MS TAB NO 35 POD SEQUENCE NO 1451

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				171.851	310.46889	0.036	15.489	2045.969	2.486	-47.573	73.890					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.897	21.070	361.72693	-101.1	-3.8	-92.8	78.9	7.34942	0.831	-90.5	71.5	38.1	33.8	33.4	0.	1- 2
3	1.381	20.542	354.87105	-106.5	-3.9	-91.5	77.5	7.19669	0.852	-87.6	71.0	40.5	31.7	30.3	21.67677	2- 3
4	1.396	21.714	374.50143	-104.3	-4.4	-91.4	77.9	7.59567	0.797	-87.4	72.2	35.8	37.3	36.1	35.50058	3- 4
5	0.394	21.627	370.45377	-96.3	-3.7	-94.3	80.3	7.51267	0.808	-93.6	72.1	35.8	36.3	36.2	30.49131	4- 5
6	0.430	20.472	351.28283	-97.4	-3.4	-94.1	79.8	7.12677	0.863	-93.3	70.9	40.5	30.5	30.4	34.98936	5- 6
7	1.381	20.542	354.87105	-106.5	-3.9	-91.5	77.5	7.19669	0.852	-87.6	71.0	40.5	31.7	30.3	28.87122	6- 7

FEB. 20,1965 9 HR 54 MIN 53 SEC 305 MS TAB NO 36 POD SEQUENCE NO 1461

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				163.451	295.06508	0.146	15.871	2030.565	2.493	-47.327	73.891					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	0.987	21.258	344.88908	-101.2	-3.9	-92.9	78.8	7.00731	0.829	-90.5	71.7	38.1	34.0	33.5	0.	1- 2
3	1.448	20.754	338.31413	-106.6	-3.9	-91.5	77.4	6.86090	0.850	-87.6	71.3	40.5	31.9	30.5	20.67881	2- 3
4	1.463	21.874	357.16673	-104.3	-4.4	-91.4	77.8	7.24408	0.795	-87.4	72.4	35.8	37.5	36.3	33.92531	3- 4
5	0.430	21.790	352.23658	-96.5	-3.8	-94.3	80.2	7.16349	0.806	-93.6	72.3	35.8	36.4	36.4	29.08645	4- 5
6	0.541	20.687	334.83096	-97.6	-3.4	-94.2	79.7	6.79109	0.861	-93.3	71.2	40.5	30.7	30.6	33.42779	5- 6
7	1.448	20.754	338.31413	-106.6	-3.9	-91.5	77.4	6.86090	0.850	-87.6	71.3	40.5	31.9	30.5	27.52947	6- 7

RA-VIII CAMERA P3

10

FEB. 20,1965 9 HR 55 MIN 1 SEC 705 MS TAB NO 37 POD SEQUENCE NO 1471

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				155.050	279.67720	0.258	16.259	2015.177	2.500	-47.078	73.893					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.077	21.446	327.98718	-101.4	-4.0	-92.9	78.6	6.66391	0.827	-90.5	71.9	38.1	34.2	33.7	0.	1- 2
3	1.515	20.966	321.70002	-106.6	-4.0	-91.5	77.3	6.52395	0.848	-87.6	71.5	40.5	32.1	30.7	19.67541	2- 3
4	1.530	22.034	339.75910	-104.4	-4.5	-91.4	77.7	6.89102	0.793	-87.4	72.5	35.8	37.7	36.4	32.33728	3- 4
5	0.620	21.952	335.94893	-96.7	-3.9	-94.4	80.0	6.81288	0.804	-93.6	72.4	35.8	36.6	36.6	27.67567	4- 5
6	0.653	20.901	318.32405	-97.8	-3.5	-94.2	79.5	6.45629	0.859	-93.3	71.4	40.5	30.9	30.9	31.85385	5- 6
7	1.515	20.966	321.70002	-106.6	-4.0	-91.5	77.3	6.52395	0.848	-87.6	71.5	40.5	32.1	30.7	26.18309	6- 7

FEB. 20,1965 9 HR 55 MIN 10 SEC 105 MS TAB NO 38 POD SEQUENCE NO 1481

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				146.650	264.30630	0.372	16.652	1999.806	2.508	-46.826	73.896					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.167	21.633	311.01014	-101.5	-4.0	-92.9	78.5	6.31897	0.825	-90.5	72.1	38.1	34.4	33.9	0.	1- 2
3	1.583	21.177	305.01579	-106.7	-4.0	-91.5	77.2	6.18557	0.846	-87.6	71.7	40.5	32.4	30.9	18.66653	2- 3
4	1.597	22.192	322.26355	-104.5	-4.5	-91.4	77.6	6.53617	0.791	-87.4	72.7	35.8	37.8	36.6	30.73437	3- 4
5	0.734	22.113	318.58168	-96.9	-4.0	-94.4	79.8	6.46066	0.802	-93.7	72.6	35.8	36.8	36.7	26.25720	4- 5
6	0.765	21.114	301.75422	-98.0	-3.6	-94.2	79.4	6.12021	0.857	-93.3	71.6	40.5	31.2	31.1	30.26621	5- 6
7	1.583	21.177	305.01579	-106.7	-4.0	-91.5	77.2	6.18557	0.846	-87.6	71.7	40.5	32.4	30.9	24.83058	6- 7

FEB. 20,1965 9 HR 55 MIN 18 SEC 505 MS TAB NO 39 POD SEQUENCE NO 1491

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				138.250	248.95326	0.488	17.052	1984.453	2.515	-46.569	73.900					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.257	21.818	293.95554	-101.6	-4.1	-92.9	78.4	5.97246	0.823	-90.5	72.3	38.1	34.6	34.1	0.	1- 2
3	1.649	21.387	288.25916	-106.7	-4.1	-91.5	77.1	5.84574	0.844	-87.7	71.9	40.5	32.6	31.1	17.65198	2- 3
4	1.664	22.349	304.67759	-104.5	-4.6	-91.4	77.5	6.17948	0.789	-87.4	72.9	35.8	38.0	36.7	29.11622	3- 4
5	0.847	22.273	301.13241	-97.1	-4.0	-94.5	79.6	6.10677	0.801	-93.7	72.8	35.8	36.9	36.9	24.83081	4- 5
6	0.877	21.327	285.11937	-98.2	-3.7	-94.3	79.2	5.78282	0.855	-93.3	71.8	40.5	31.4	31.3	28.66450	5- 6
7	1.649	21.387	288.25916	-106.7	-4.1	-91.5	77.1	5.84574	0.844	-87.7	71.9	40.5	32.6	31.1	23.47173	6- 7

FEB. 20,1965 9 HR 55 MIN 26 SEC 905 MS TAB NO 40 POD SEQUENCE NO 1501

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				129.850	233.61949	0.605	17.458	1969.119	2.523	-46.310	73.905					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.346	22.003	276.82129	-101.8	-4.2	-92.9	78.2	5.62434	0.821	-90.5	72.5	38.1	34.8	34.3	0.	1- 2
3	1.716	21.596	271.42813	-106.7	-4.2	-91.5	77.1	5.50439	0.842	-87.7	72.1	40.5	32.8	31.4	16.63160	2- 3
4	1.729	22.504	286.99891	-104.6	-4.6	-91.4	77.5	5.82092	0.787	-87.4	73.0	35.8	38.2	36.9	27.48252	3- 4
5	0.960	22.431	283.59880	-97.3	-4.1	-94.5	79.4	5.75118	0.799	-93.7	72.9	35.8	37.1	37.1	23.39629	4- 5
6	0.988	21.538	268.41740	-98.4	-3.7	-94.3	79.0	5.44407	0.853	-93.3	72.0	40.5	31.6	31.5	27.04841	5- 6
7	1.716	21.596	271.42813	-106.7	-4.2	-91.5	77.1	5.50439	0.842	-87.7	72.1	40.5	32.8	31.4	22.10637	6- 7

RA-VIII CAMERA P3

11

FEB. 20,1965 9 HR 55 MIN 35 SEC 305 MS TAB NO 41 ATLAS PHOTO NO 4 POD SEQUENCE NO 1511

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				121.450	218.30592	0.724	17.871	1953.806	2.531	-46.046	73.910					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.435	22.186	259.60507	-101.9	-4.2	-93.0	78.1	5.27455	0.819	-90.5	72.7	38.1	35.0	34.5	0.	1- 2
3	1.781	21.804	254.52047	-106.8	-4.2	-91.5	77.0	5.16150	0.840	-87.7	72.3	40.5	33.0	31.6	15.60522	2- 3
4	1.794	22.658	269.22510	-104.7	-4.7	-91.4	77.4	5.46043	0.786	-87.4	73.2	35.8	38.3	37.1	25.83285	3- 4
5	1.073	22.588	265.97860	-97.5	-4.2	-94.5	79.3	5.39384	0.797	-93.7	73.1	35.8	37.3	37.2	21.95339	4- 5
6	1.099	21.749	251.64628	-98.6	-3.8	-94.4	78.9	5.10391	0.851	-93.3	72.2	40.5	31.8	31.7	25.41754	5- 6
7	1.781	21.804	254.52047	-106.8	-4.2	-91.5	77.0	5.16150	0.840	-87.7	72.3	40.5	33.0	31.6	20.73425	6- 7

FEB. 20, 1965 9 HR 55 MIN 43 SEC 705 MS TAB NO 42 POD SEQUENCE NO 1521

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ			
				113.050	203.01376	0.845	18.290	1938.514	2.538	-45.778	73.917			
PHOTO DATA														
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT
2	1.523	22.367	242.30258	-102.0	-4.3	-93.0	78.0	4.92300	0.817	-90.5	72.9	38.1	35.2	0.
3	1.846	22.011	237.52994	-106.8	-4.3	-91.5	76.9	4.81692	0.838	-87.7	72.5	40.5	33.3	31.8
4	1.859	22.809	251.34977	-104.7	-4.7	-91.4	77.3	5.09788	0.784	-87.4	73.3	35.8	38.5	37.2
5	1.185	22.743	248.26958	-97.6	-4.3	-94.6	79.1	5.03470	0.795	-93.7	73.2	35.9	37.4	37.4
6	1.209	21.958	234.80345	-98.8	-3.9	-94.4	78.7	4.76230	0.849	-93.3	72.5	40.5	32.1	31.9
7	1.846	22.011	237.52994	-106.8	-4.3	-91.5	76.9	4.81692	0.838	-87.7	72.5	40.5	33.3	31.8

FEB. 20, 1965 4 HR 55 MIN 52 SEC 106 MS TAB NO 43 POD SEQUENCE NO 1531

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ			
				104.650	187.74425	0.967	18.716	1923.244	2.546	-45.507	73.924			
PHOTO DATA														
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT
2	1.610	22.548	224.91335	-102.1	-4.3	-93.0	77.9	4.56969	0.815	-90.5	73.1	38.1	35.4	34.8
3	1.910	22.217	220.45793	-106.8	-4.3	-91.5	76.9	4.47070	0.836	-87.7	72.7	40.5	33.5	32.0
4	1.922	22.959	233.37613	-104.8	-4.8	-91.4	77.2	4.73329	0.782	-87.4	73.5	35.8	38.7	37.4
5	1.297	22.897	230.46928	-97.8	-4.4	-94.6	79.0	4.67370	0.794	-93.7	73.4	35.9	37.6	37.5
6	1.319	22.167	217.88702	-98.9	-3.9	-94.4	78.6	4.41919	0.847	-93.3	72.7	40.5	32.3	32.2
7	1.910	22.217	220.45793	-106.8	-4.3	-91.5	76.9	4.47070	0.836	-87.7	72.7	40.5	33.5	32.0

FEB. 20, 1965 4 HR 56 MIN 0 SEC 506 MS TAB NO 44 POD SEQUENCE NO 1541

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ			
				96.250	172.49878	1.092	19.148	1907.999	2.554	-45.231	73.933			
PHOTO DATA														
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT
2	1.697	22.727	207.43501	-102.2	-4.4	-93.0	77.8	4.21458	0.813	-90.5	73.2	38.1	35.6	35.0
3	1.974	22.421	203.30283	-106.9	-4.3	-91.5	76.8	4.12279	0.833	-87.7	72.9	40.5	33.7	32.2
4	1.985	23.107	215.29610	-104.9	-4.8	-91.4	77.1	4.36663	0.780	-87.4	73.6	35.8	38.8	37.5
5	1.408	23.049	212.57450	-98.0	-4.4	-94.7	78.8	4.31080	0.792	-93.7	73.6	35.9	37.8	37.7
6	1.429	22.374	200.89442	-99.1	-4.0	-94.4	78.4	4.07455	0.845	-93.3	72.9	40.5	32.5	32.4
7	1.974	22.421	203.30283	-106.9	-4.3	-91.5	76.8	4.12279	0.833	-87.7	72.9	40.5	33.7	32.2

RA-VIII CAMERA P3

12

FEB. 20, 1965 9 HR 56 MIN 8 SEC 906 MS TAB NO 45 POD SEQUENCE NO 1551

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ			
				87.850	157.27853	1.218	19.588	1892.779	2.562	-44.952	73.943			
PHOTO DATA														
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT
2	1.783	22.904	189.86481	-102.3	-4.5	-93.0	77.7	3.85759	0.811	-90.5	73.4	38.1	35.8	35.2
3	2.037	22.624	186.06133	-106.9	-4.4	-91.5	76.7	3.77314	0.831	-87.7	73.2	40.5	33.9	32.4
4	2.047	23.254	197.11234	-104.9	-4.9	-91.4	77.1	3.99783	0.779	-87.4	73.8	35.8	39.0	37.7
5	1.519	23.199	194.58322	-98.2	-4.5	-94.7	78.7	3.94594	0.790	-93.7	73.7	35.9	37.9	37.8
6	1.538	22.580	183.82347	-99.3	-4.1	-94.5	78.3	3.72831	0.843	-93.3	73.1	40.5	32.7	32.6
7	2.037	22.624	186.06133	-106.9	-4.4	-91.5	76.7	3.77314	0.831	-87.7	73.2	40.5	33.9	32.4

FEB. 20, 1965 9 HR 56 MIN 13 SEC 106 MS TAB NO 46 POD SEQUENCE NO 1556

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ			
				83.650	149.67845	1.282	19.810	1885.178	2.566	-44.810	73.948			
PHOTO DATA														
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT
2	1.826	22.992	181.04383	-102.4	-4.5	-93.0	77.6	3.67837	0.810	-90.5	73.5	38.1	35.9	35.3
3	2.068	22.725	177.40639	-106.9	-4.4	-91.5	76.7	3.59762	0.830	-87.7	73.3	40.5	34.0	32.5
4	2.078	23.326	187.97890	-104.9	-4.9	-91.4	77.0	3.81258	0.778	-87.4	73.9	35.8	39.1	37.7
5	1.574	23.273	185.55031	-98.2	-4.6	-94.7	78.6	3.76276	0.789	-93.7	73.8	35.9	38.0	37.9
6	1.592	22.683	175.25758	-99.4	-4.1	-94.5	78.2	3.55458	0.842	-93.3	73.2	40.5	32.8	32.7
7	2.068	22.725	177.40639	-106.9	-4.4	-91.5	76.7	3.59762	0.830	-87.7	73.3	40.5	34.0	32.5

FEB. 20, 1965 4 HR 56 MIN 17 SEC 306 MS TAB NO 47 POD SEQUENCE NO 1561

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ			
				79.450	142.08493	1.347	20.035	1877.585	2.571	-44.668	73.953			
PHOTO DATA														
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT
2	1.869	23.080	172.19902	-102.4	-4.5	-93.0	77.6	3.49867	0.809	-90.5	73.6	38.1	36.0	35.4
3	2.099	22.825	168.72919	-106.9	-4.4	-91.5	76.7	3.42165	0.829	-87.7	73.4	40.5	34.1	32.6
4	2.108	23.398	178.81831	-104.9	-4.9	-91.4	77.0	3.62678	0.777	-87.4	73.9	35.8	39.1	37.8
5	1.629	23.347	176.49221	-98.3	-4.6	-94.7	78.5	3.57906	0.788	-93.7	73.9	35.9	38.1	38.0
6	1.646	22.785	166.67116	-99.4	-4.2	-94.5	78.2	3.38042	0.841	-93.3	73.3	40.5	32.9	32.8
7	2.099	22.825	168.72919	-106.9	-4.4	-91.5	76.7	3.42165	0.829	-87.7	73.4	40.5	34.1	32.6

FEB. 20, 1965 9 HR 56 MIN 21 SEC 506 MS TAB NO 48 POD SEQUENCE NO 1566

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ			
				75.250	134.49881	1.412	20.261	1869.999	2.575	-44.524	73.959			
PHOTO DATA														
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT
2	1.912	23.167	163.33069	-102.4	-4.6	-93.0	77.6	3.31848	0.808	-90.5	73.7	38.1	36.1	35.5
3	2.130	22.925	160.03002	-106.9	-4.5	-91.4	76.7	3.24523	0.828	-87.7	73.5	40.5	34.2	32.7
4	2.139	23.469	169.63089	-105.0	-5.0	-91.4	77.0	3.44045	0.776	-87.4	74.0	35.8	39.2	37.9
5	1.684	23.421	167.40927	-98.4	-4.6	-94.7	78.5	3.39486	0.788	-93.7	73.9	35.9	38.2	38.1
6	1.700	22.887	158.06449	-99.5	-4.2	-94.5	78.1	3.20586	0.840	-93.3	73.4	40.5	33.0	32.9
7	2.130	22.925	160.03002	-106.9	-4.5	-91.4	76.7	3.24523	0.828	-87.7	73.5	40.5	34.2	32.7

RA-VIII CAMERA P3

13

FEB. 20, 1965 9 HR 56 MIN 25 SEC 706 MS TAB NO 49 POD SEQUENCE NO 1571

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				71.049		126.91956		1.477		20.489		1862.420		2.579		-44.380		73.965	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	1.955	23.254	154.43897	-102.5	-4.6	-93.0	77.5	3.13783	0.807	-90.5	73.8	38.1	36.2	35.6	0.	1-2			
3	2.161	23.025	151.30955	-106.9	-4.5	-91.4	76.6	3.06839	0.827	-87.7	73.6	40.5	34.3	32.8	9.31528	2-3			
4	2.170	23.540	160.41736	-105.0	-5.0	-91.4	77.0	3.25358	0.775	-87.4	74.1	35.8	39.3	38.0	15.58024	3-4			
5	1.740	23.494	158.30093	-98.5	-4.7	-94.8	78.4	3.21015	0.787	-93.7	74.0	35.9	38.2	38.1	13.10165	4-5			
6	1.755	22.989	149.43714	-99.6	-4.2	-94.5	78.1	3.03088	0.839	-93.3	73.5	40.5	33.1	33.0	15.30683	5-6			
7	2.161	23.025	151.30955	-106.9	-4.5	-91.4	76.6	3.06839	0.827	-87.7	73.6	40.5	34.3	32.8	12.34339	6-7			

FEB. 20, 1965 9 HR 56 MIN 26 SEC 546 MS TAB NO 50 ATLAS PHOTO NO 5 POD SEQUENCE NO 1572

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				70.209		125.40472		1.491		20.535		1860.905		2.587		-44.351		73.967	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	1.965	23.271	152.65788	-102.5	-4.6	-93.0	77.5	3.10164	0.807	-90.5	73.8	38.1	36.2	35.6	0.	1-2			
3	2.167	23.045	149.56290	-106.9	-4.5	-91.4	76.6	3.03296	0.827	-87.7	73.6	40.5	34.3	32.8	9.20835	2-3			
4	2.174	23.554	158.57152	-105.0	-5.0	-91.4	76.9	3.21614	0.775	-87.4	74.1	35.8	39.3	38.0	15.49407	3-4			
5	1.751	23.509	156.47637	-98.5	-4.7	-94.8	78.4	3.17315	0.787	-93.7	74.0	35.9	38.3	38.2	12.95128	4-5			
6	1.766	23.009	147.70933	-99.6	-4.2	-94.5	78.0	2.99584	0.838	-93.3	73.5	40.5	33.2	33.0	15.13335	5-6			
7	2.167	23.045	149.56290	-106.9	-4.5	-91.4	76.6	3.03296	0.827	-87.7	73.6	40.5	34.3	32.8	12.20121	6-7			

FEB. 20, 1965 9 HR 56 MIN 29 SEC 906 MS TAB NO 51 POD SEQUENCE NO 1576

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				66.849		119.34805		1.544		20.719		1854.848		2.583		-44.234		73.972	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	1.998	23.340	145.52310	-102.5	-4.6	-93.1	77.5	2.95668	0.806	-90.5	73.9	38.1	36.3	35.7	0.	1-2			
3	2.192	23.125	142.56645	-106.9	-4.5	-91.4	76.6	2.89108	0.826	-87.7	73.7	40.5	34.4	32.9	8.77994	2-3			
4	2.200	23.610	151.17630	-105.0	-5.0	-91.4	76.9	3.06615	0.774	-87.4	74.1	35.8	39.4	38.0	14.69744	3-4			
5	1.795	23.567	149.16713	-98.6	-4.7	-94.8	78.3	3.02492	0.786	-93.7	74.1	35.9	38.3	38.2	12.34869	4-5			
6	1.809	23.090	140.78901	-99.7	-4.3	-94.6	78.0	2.85548	0.838	-93.3	73.6	40.5	33.2	33.1	14.43770	5-6			
7	2.192	23.125	142.56645	-106.9	-4.5	-91.4	76.6	2.89108	0.826	-87.7	73.7	40.5	34.4	32.9	11.63163	6-7			

FEB. 20, 1965 9 HR 56 MIN 34 SEC 106 MS TAB NO 52 POD SEQUENCE NO 1581

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				62.649		111.78386		1.610		20.951		1847.284		2.587		-44.087		73.978	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	2.041	23.426	136.58181	-102.6	-4.7	-93.1	77.4	2.77501	0.805	-90.5	74.0	38.1	36.3	35.7	0.	1-2			
3	2.223	23.224	133.79946	-106.9	-4.5	-91.4	76.6	2.71329	0.825	-87.7	73.8	40.5	34.5	33.0	8.24275	2-3			
4	2.231	23.680	141.90632	-105.0	-5.0	-91.4	76.9	2.87813	0.773	-87.4	74.2	35.8	39.4	38.1	13.81000	3-4			
5	1.850	23.639	140.00661	-98.6	-4.8	-94.8	78.2	2.83916	0.785	-93.7	74.2	35.9	38.4	38.3	11.59317	4-5			
6	1.864	23.191	132.11886	-99.8	-4.3	-94.6	77.9	2.67963	0.837	-93.3	73.7	40.5	33.4	33.2	13.56425	5-6			
7	2.223	23.224	133.79946	-106.9	-4.5	-91.4	76.6	2.71329	0.825	-87.7	73.8	40.5	34.5	33.0	10.91776	6-7			

RA-VIII CAMERA P3

14

FEB. 20, 1965 9 HR 56 MIN 38 SEC 306 MS TAB NO 53 POD SEQUENCE NO 1586

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				58.449		104.22757		1.677		21.184		1839.728		2.591		-43.940		73.986	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	2.083	23.512	127.61569	-102.6	-4.7	-93.1	77.4	2.59284	0.804	-90.5	74.0	38.1	36.4	35.8	0.	1-2			
3	2.253	23.323	125.00873	-106.9	-4.6	-91.4	76.6	2.53502	0.824	-87.7	73.9	40.5	34.6	33.1	7.70390	2-3			
4	2.261	23.749	132.60785	-105.1	-5.1	-91.4	76.9	2.68954	0.773	-87.4	74.3	35.8	39.5	38.2	12.91809	3-4			
5	1.905	23.711	130.82043	-98.7	-4.8	-94.8	78.2	2.65287	0.784	-93.7	74.2	35.9	38.5	38.4	10.83504	4-5			
6	1.918	23.292	123.42751	-99.8	-4.3	-94.6	77.9	2.50335	0.836	-93.3	73.8	40.5	33.5	33.3	12.68673	5-6			
7	2.253	23.323	125.00873	-106.9	-4.6	-91.4	76.6	2.53502	0.824	-87.7	73.9	40.5	34.6	33.1	10.20172	6-7			

FEB. 20, 1965 9 HR 56 MIN 42 SEC 506 MS TAB NO 54 POD SEQUENCE NO 1591

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				54.249		96.67924		1.745		21.420		1832.179		2.596		-43.791		73.993	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	2.126	23.597	118.62450	-102.7	-4.7	-93.1	77.3	2.41016	0.804	-90.5	74.1	38.1	36.5	35.9	0.	1-2			
3	2.284	23.421	116.19387	-106.9	-4.6	-91.4	76.5	2.35626	0.823	-87.7	74.0	40.4	34.7	33.2	7.16340	2-3			
4	2.291	23.818	123.28053	-105.1	-5.1	-91.4	76.8	2.60237	0.772	-87.4	74.4	35.8	39.6	38.2	12.02169	3-4			
5	1.960	23.782	121.60853	-98.8	-4.8	-94.8	78.1	2.46606	0.783	-93.7	74.3	35.8	38.5	38.4	10.07421	4-5			
6	1.972	23.392	114.71476	-99.9	-4.4	-94.6	77.8	2.32664	0.835	-93.3	73.9	40.5	33.6	33.4	11.80514	5-6			
7	2.284	23.421	116.19387	-106.9	-4.6	-91.4	76.5	2.35626	0.823	-87.7	74.0	40.4	34.7	33.2	9.48343	6-7			

FEB. 20, 1965 9 HR 56 MIN 46 SEC 706 MS TAB NO 55 POD SEQUENCE NO 1596

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				50.049		89.13936		1.813		21.658		1824.639		2.600		-43.640		74.001	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	2.168	23.682	109.60129	-102.7	-4.7	-93.1	77.3	2.22696	0.803	-90.5	74.2	38.1	36.6	36.0	0.	1-2			
3	2.314	23.519	107.35463	-106.9	-4.6	-91.4	76.5	2.17701	0.822	-87.7	74.1	40.4	34.8	33.3	6.62101	2-3			
4	2.321	23.886	113.92372	-105.1	-5.1	-91.4	76.8	2.31059	0.771	-87.4	74.4	35.8	39.7	38.3	11.12055	3-4			
5	2.015	23.853	112.36908	-98.9	-4.9	-94.9	78.0	2.27869	0.783	-93.7	74.4	35.8	38.6	38.5	9.31080	4-5			
6	2.026	23.492	105.97938	-100.0	-4.4	-94.6	77.8	2.14947	0.834	-93.3	74.0	40.5	33.7	33.5	10.91906	5-6			
7	2.314																		

FEB. 20,1965 9 HR 56 MIN 50 SEC 906 MS TAB NO 56 POD SEQUENCE NO 1601

TRAJECTORY DATA								SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ	
								45.849	81.60759	1.882	21.897	1817.108	2.604	-43.489	74.009	
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.210	23.766	100.56311	-102.8	-4.8	-93.1	77.2	2.04320	0.802	-90.5	74.3	38.1	36.7	36.1	0.	1-2
3	2.344	23.616	98.49018	-106.9	-4.6	-91.4	76.5	1.99725	0.821	-87.7	74.2	40.4	34.9	33.4	6.07661	2-3
4	2.350	23.954	104.53652	-105.1	-5.1	-91.4	76.8	2.12020	0.770	-87.4	74.5	35.8	39.7	38.4	10.21456	3-4
5	2.070	23.923	103.10125	-98.9	-4.9	-94.9	78.0	2.09075	0.782	-93.7	74.5	35.8	38.7	38.6	8.54471	4-5
6	2.080	23.592	97.22053	-100.0	-4.4	-94.6	77.7	1.97182	0.832	-93.3	74.1	40.5	33.8	33.6	10.02842	5-6
7	2.344	23.616	98.49018	-106.9	-4.6	-91.4	76.5	1.99725	0.821	-87.7	74.2	40.4	34.9	33.4	8.04035	6-7

RA-VIII CAMERA P3

15

FEB. 20,1965 9 HR 56 MIN 55 SEC 106 MS TAB NO 57 POD SEQUENCE NO 1606

TRAJECTORY DATA								SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ	
								41.649	74.08463	1.951	22.139	1809.585	2.608	-43.337	74.017	
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.252	23.850	91.49204	-102.8	-4.8	-93.1	77.2	1.85890	0.801	-90.5	74.4	38.1	36.8	36.2	0.	1-2
3	2.374	23.714	89.60085	-106.9	-4.6	-91.4	76.5	1.81698	0.820	-87.7	74.3	40.4	35.0	33.5	5.53012	2-3
4	2.380	24.021	95.11915	-105.1	-5.1	-91.4	76.8	1.92920	0.769	-87.4	74.6	35.8	39.8	38.5	9.30368	3-4
5	2.125	23.992	93.80458	-99.0	-4.9	-94.9	77.9	1.90222	0.781	-93.7	74.5	35.8	38.8	38.7	7.77605	4-5
6	2.134	23.691	88.43797	-100.1	-4.5	-94.6	77.6	1.79369	0.831	-93.3	74.2	40.5	33.9	33.7	9.13310	5-6
7	2.374	23.714	89.60085	-106.9	-4.6	-91.4	76.5	1.81698	0.820	-87.7	74.3	40.4	35.0	33.5	7.31559	6-7

FEB. 20,1965 9 HR 56 MIN 59 SEC 306 MS TAB NO 58 POD SEQUENCE NO 1611

TRAJECTORY DATA								SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ	
								37.449	66.57036	2.020	22.383	1802.070	2.613	-43.183	74.026	
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.295	23.933	82.39342	-102.8	-4.8	-93.1	77.2	1.67404	0.800	-90.5	74.5	38.1	36.9	36.3	0.	1-2
3	2.404	23.810	80.68570	-106.9	-4.6	-91.4	76.5	1.63619	0.819	-87.7	74.4	40.4	35.2	33.6	4.98163	2-3
4	2.410	24.087	85.67078	-105.2	-5.2	-91.4	76.7	1.73757	0.769	-87.4	74.6	35.8	39.9	38.5	8.38786	3-4
5	2.180	24.061	84.47890	-99.1	-5.0	-94.9	77.8	1.71311	0.780	-93.7	74.6	35.8	38.9	38.7	7.00465	4-5
6	2.188	23.790	79.63136	-100.2	-4.5	-94.6	77.6	1.61508	0.830	-93.3	74.3	40.5	34.0	33.8	8.23314	5-6
7	2.404	23.810	80.68570	-106.9	-4.6	-91.4	76.5	1.63619	0.819	-87.7	74.4	40.4	35.2	33.6	6.58855	6-7

FEB. 20,1965 9 HR 57 MIN 3 SEC 506 MS TAB NO 59 POD SEQUENCE NO 1616

TRAJECTORY DATA								SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ	
								33.249	59.06531	2.091	22.628	1794.565	2.617	-43.028	74.035	
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.337	24.015	73.26738	-102.9	-4.8	-93.1	77.1	1.48861	0.799	-90.5	74.6	38.1	37.0	36.3	0.	1-2
3	2.434	23.906	71.74471	-107.0	-4.7	-91.4	76.5	1.45488	0.818	-87.7	74.5	40.4	35.3	33.7	4.43114	2-3
4	2.439	24.153	76.19139	-105.2	-5.2	-91.4	76.7	1.54530	0.768	-87.4	74.7	35.8	40.0	38.6	7.46716	3-4
5	2.235	24.130	75.12441	-99.2	-5.0	-94.9	77.8	1.52341	0.779	-93.7	74.7	35.8	38.9	38.8	6.23050	4-5
6	2.242	23.888	70.80084	-100.3	-4.5	-94.6	77.5	1.43598	0.829	-93.3	74.4	40.5	34.1	33.9	7.32859	5-6
7	2.434	23.906	71.74471	-107.0	-4.7	-91.4	76.5	1.45488	0.818	-87.7	74.5	40.4	35.3	33.7	5.85922	6-7

FEB. 20,1965 9 HR 57 MIN 7 SEC 706 MS TAB NO 60 POD SEQUENCE NO 1621

TRAJECTORY DATA								SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ	
								29.049	51.56952	2.162	22.876	1787.070	2.621	-42.872	74.045	
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.379	24.097	64.11280	-102.9	-4.9	-93.1	77.1	1.30262	0.798	-90.6	74.6	38.1	37.1	36.4	0.	1-2
3	2.464	24.002	62.77684	-107.0	-4.7	-91.4	76.4	1.27302	0.817	-87.7	74.6	40.4	35.4	33.8	3.87861	2-3
4	2.468	24.218	66.67985	-105.2	-5.2	-91.4	76.7	1.35239	0.767	-87.4	74.8	35.8	40.0	38.7	6.54142	3-4
5	2.289	24.198	65.74003	-99.2	-5.0	-94.9	77.7	1.33311	0.778	-93.7	74.7	35.8	39.0	38.9	5.45350	4-5
6	2.296	23.986	61.94544	-100.3	-4.6	-94.7	77.5	1.25637	0.828	-93.3	74.5	40.5	34.2	34.0	6.41932	5-6
7	2.464	24.002	62.77684	-107.0	-4.7	-91.4	76.4	1.27302	0.817	-87.7	74.6	40.4	35.4	33.8	5.12750	6-7

RA-VIII CAMERA P3

16

FEB. 20,1965 9 HR 57 MIN 11 SEC 906 MS TAB NO 61 POD SEQUENCE NO 1626

TRAJECTORY DATA								SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ	
								24.849	44.08327	2.233	23.126	1779.583	2.626	-42.715	74.055	
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.421	24.179	54.92885	-103.0	-4.9	-93.1	77.0	1.11602	0.797	-90.6	74.7	38.1	37.2	36.5	0.	1-2
3	2.494	24.097	53.78121	-107.0	-4.7	-91.4	76.4	1.09060	0.816	-87.7	74.6	40.4	35.5	33.9	3.32397	2-3
4	2.497	24.282	57.13514	-105.2	-5.2	-91.4	76.6	1.15881	0.766	-87.5	74.8	35.8	40.1	38.7	5.61048	3-4
5	2.344	24.265	56.32489	-99.3	-5.1	-94.9	77.6	1.14218	0.778	-93.7	74.8	35.8	39.1	38.9	4.67353	4-5
6	2.350	24.083	53.06439	-100.4	-4.6	-94.7	77.4	1.07625	0.827	-93.3	74.6	40.5	34.3	34.1	5.50516	5-6
7	2.494	24.097	53.78121	-107.0	-4.7	-91.4	76.4	1.09060	0.816	-87.7	74.6	40.4	35.5	33.9	4.39331	6-7

FEB. 20,1965 9 HR 57 MIN 16 SEC 107 MS TAB NO 62 POD SEQUENCE NO 1631

TRAJECTORY DATA								SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ	
								20.649	36.60670	2.305	23.378	1772.107	2.630	-42.556	74.065	
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.463	24.260	45.71645	-103.0	-4.9	-93.1	77.0	0.92885	0.796	-90.6	74.8	38.1	37.2	36.6	0.	1-2
3	2.523	24.192	44.75876	-107.0	-4.7	-91.3	76.4	0.90764	0.815	-87.7	74.7	40.4	35.6	34.0	2.76730	2-3
4	2.526	24.346	47.55850	-105.2	-5.2	-91.4	76.6	0.96458	0.765	-87.5	74.9	35.8	40.2	38.8	4.67458	3-4
5	2.399	24.331	46.87992	-99.4	-5.1	-95.0	77.6	0.95065	0.777	-93.7	74.9	35.8	39.1	39.0	3.89073	4-5
6	2.403	24.180	44.15842	-100.5	-4.6	-94.7	77.3	0.89562	0.826	-93.3	74.7	40.5	34.4	34.2	4.58635	5-6
7	2.523	24.192	44.75876	-107.0	-4.7	-91.3	76.4	0.90764	0.815	-87.7	74.7	40.4	35.6	34.0	3.65675	6-7

FEB. 20,1965 9 HR 57 MIN 20 SEC 307 MS TAB NO 63 POD SEQUENCE NO 1636

TRAJECTORY DATA										SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA										16.449		29.14029		2.377		23.633		1764.640		2.635		-42.397		74.076	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT									
2	2.504	24.340	36.47550	-103.1	-5.0	-93.1	76.9	0.74109	0.795	-90.6	74.9	38.1	37.3	36.7	0.	1-2									
3	2.553	24.286	35.70939	-107.0	-4.7	-91.3	76.4	0.72413	0.814	-87.7	74.8	40.4	35.6	34.1	2.20856	2-3									
4	2.555	24.409	37.94977	-105.3	-5.3	-91.4	76.6	0.76969	0.765	-87.5	75.0	35.8	40.2	38.9	3.73370	3-4									
5	2.454	24.397	37.40502	-99.5	-5.1	-95.0	77.5	0.75851	0.776	-93.7	74.9	35.8	39.2	39.1	3.10509	4-5									
6	2.457	24.276	35.22739	-100.6	-4.7	-94.7	77.3	0.71448	0.825	-93.3	74.8	40.5	34.5	34.3	3.66287	5-6									
7	2.553	24.286	35.70939	-107.0	-4.7	-91.3	76.4	0.72413	0.814	-87.7	74.8	40.4	35.6	34.1	2.91780	6-7									

FEB. 20,1965 9 HR 57 MIN 24 SEC 507 MS TAB NO 64 ATLAS PHOTO NO 6 POD SEQUENCE NO 1641

TRAJECTORY DATA										SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA										12.249		21.68398		2.451		23.889		1757.184		2.639		-42.235		74.087	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT									
2	2.546	24.420	27.20504	-103.1	-5.0	-93.1	76.9	0.55274	0.794	-90.6	75.0	38.1	37.4	36.8	0.	1-2									
3	2.582	24.380	26.63220	-107.0	-4.8	-91.3	76.4	0.54006	0.813	-87.7	74.9	40.4	35.7	34.2	1.64771	2-3									
4	2.584	24.472	28.30803	-105.3	-5.3	-91.4	76.6	0.57414	0.764	-87.5	75.0	35.8	40.3	38.9	2.78774	3-4									
5	2.508	24.463	27.89915	-99.5	-5.2	-95.0	77.4	0.56575	0.775	-93.7	75.0	35.8	39.3	39.1	2.31654	4-5									
6	2.511	24.373	26.27040	-100.6	-4.7	-94.7	77.2	0.53281	0.824	-93.3	74.9	40.5	34.6	34.4	2.73454	5-6									
7	2.582	24.380	26.63220	-107.0	-4.8	-91.3	76.4	0.54006	0.813	-87.7	74.9	40.4	35.7	34.2	2.17640	6-7									

RA-VIII CAMERA P3

17

FEB. 20,1965 9 HR 57 MIN 25 SEC 347 MS TAB NO 65 ATLAS PHOTO NO 7 POD SEQUENCE NO 1642

TRAJECTORY DATA										SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA										11.409		20.19398		2.465		23.941		1755.694		2.640		-42.203		74.089	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT									
2	2.554	24.436	25.34750	-103.1	-5.0	-93.1	76.9	0.51500	0.794	-90.6	75.0	38.1	37.4	36.8	0.	1-2									
3	2.588	24.398	24.81350	-107.0	-4.8	-91.3	76.3	0.50318	0.813	-87.7	75.0	40.4	35.8	34.2	1.53529	2-3									
4	2.590	24.484	26.37582	-105.3	-5.3	-91.4	76.6	0.53495	0.764	-87.5	75.0	35.8	40.3	38.9	2.59795	3-4									
5	2.519	24.476	25.99436	-99.5	-5.2	-95.0	77.4	0.52712	0.775	-93.7	75.0	35.8	39.3	39.1	2.15848	4-5									
6	2.521	24.392	24.47599	-100.6	-4.7	-94.7	77.2	0.49642	0.824	-93.3	74.9	40.5	34.6	34.4	2.54832	5-6									
7	2.588	24.398	24.81350	-107.0	-4.8	-91.3	76.3	0.50318	0.813	-87.7	75.0	40.4	35.8	34.2	2.02783	6-7									

FEB. 20,1965 9 HR 57 MIN 26 SEC 187 MS TAB NO 66 ATLAS PHOTO NO 8 POD SEQUENCE NO 1643

TRAJECTORY DATA										SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA										10.569		18.70436		2.480		23.992		1754.204		2.641		-42.171		74.092	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT									
2	2.563	24.452	23.48866	-103.1	-5.0	-93.1	76.9	0.47723	0.794	-90.6	75.0	38.1	37.5	36.8	0.	1-2									
3	2.594	24.417	22.99359	-107.0	-4.8	-91.3	76.3	0.46627	0.813	-87.7	75.0	40.4	35.8	34.2	1.42278	2-3									
4	2.596	24.497	24.44217	-105.3	-5.3	-91.4	76.6	0.49573	0.764	-87.5	75.1	35.8	40.3	38.9	2.40795	3-4									
5	2.530	24.489	24.08823	-99.6	-5.2	-95.0	77.4	0.48847	0.775	-93.7	75.0	35.8	39.3	39.2	2.00030	4-5									
6	2.532	24.411	22.68043	-100.7	-4.7	-94.7	77.2	0.46000	0.824	-93.3	75.0	40.5	34.7	34.4	2.36188	5-6									
7	2.594	24.417	22.99359	-107.0	-4.8	-91.3	76.3	0.46627	0.813	-87.7	75.0	40.4	35.8	34.2	1.87914	6-7									

FEB. 20,1965 9 HR 57 MIN 27 SEC 27 MS TAB NO 67 ATLAS PHOTO NO 9 POD SEQUENCE NO 1644

TRAJECTORY DATA										SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA										9.729		17.21532		2.495		24.044		1752.715		2.642		-42.138		74.094	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT									
2	2.571	24.468	21.62883	-103.1	-5.0	-93.1	76.9	0.43944	0.794	-90.6	75.0	38.1	37.5	36.8	0.	1-2									
3	2.600	24.436	21.17273	-107.0	-4.8	-91.3	76.3	0.42935	0.812	-87.7	75.0	40.4	35.8	34.3	1.31019	2-3									
4	2.601	24.509	22.50798	-105.3	-5.3	-91.4	76.5	0.45649	0.763	-87.5	75.1	35.8	40.3	39.0	2.21776	3-4									
5	2.541	24.502	22.18106	-99.6	-5.2	-95.0	77.4	0.44979	0.775	-93.7	75.1	35.8	39.3	39.2	1.84202	4-5									
6	2.543	24.430	20.88400	-100.7	-4.7	-94.7	77.2	0.42357	0.824	-93.3	75.0	40.5	34.7	34.5	2.17528	5-6									
7	2.600	24.436	21.17273	-107.0	-4.8	-91.3	76.3	0.42935	0.812	-87.7	75.0	40.4	35.8	34.3	1.73038	6-7									

FEB. 20,1965 9 HR 57 MIN 27 SEC 867 MS TAB NO 68 ATLAS PHOTO NO 10 POD SEQUENCE NO 1645

TRAJECTORY DATA										SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA										8.889		15.72659		2.509		24.096		1751.227		2.643		-42.106		74.096	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT									
2	2.579	24.484	19.76767	-103.1	-5.0	-93.1	76.9	0.40163	0.793	-90.6	75.0	38.1	37.5	36.8	0.	1-2									
3	2.606	24.454	19.35061	-107.0	-4.8	-91.3	76.3	0.39240	0.812	-87.7	75.0	40.4	35.8	34.3	1.19752	2-3									
4	2.607	24.521	20.57111	-105.3	-5.3	-91.4	76.5	0.41722	0.763	-87.5	75.1	35.8	40.4	39.0	2.02734	3-4									
5	2.552	24.515	20.27249	-99.6	-5.2	-95.0	77.4	0.41109	0.775	-93.7	75.1	35.8	39.3	39.2	1.68360	4-5									
6	2.554	24.449	19.08638	-100.7	-4.7	-94.7	77.2	0.38711	0.824	-93.4	75.0	40.5	34.7	34.5	1.98848	5-6									
7	2.606	24.454	19.35061	-107.0	-4.8	-91.3	76.3	0.39240	0.812	-87.7	75.0	40.4	35.8	34.3	1.58151	6-7									

RA-VIII CAMERA P3

18

FEB. 20,1965 9 HR 57 MIN 28 SEC 707 MS TAB NO 69 ATLAS PHOTO NO 11 POD SEQUENCE NO 1646

TRAJECTORY DATA										SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA										8.049		14.23828		2.524		24.148		1749.738		2.644		-42.073		74.099	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT									
2	2.588	24.500	17.90528	-103.2	-5.0	-93.1	76.8	0.36379	0.793	-90.6	75.1	38.1	37.5	36.8	0.	1-2									
3	2.611	24.473	17.52734	-107.0	-4.8	-91.3	76.3	0.35543	0.812	-87.7	75.0	40.4	35.8	34.3	1.08476	2-3									
4	2.613	24.534	18.63350	-105.3	-5.3	-91.4	76.5	0.37792	0.763	-87.5	75.1	35.8	40.4	39.0	1.83674	3-4									
5	2.563	24.528	18.36266	-99.6	-5.2	-95.0	77.4	0.37236	0.775	-93.7	75.1	35.8	39.4	39.2	1.52507	4-5									
6	2.564	24.468	17.28769	-100.7	-4.7	-94.7	77.2	0.35063	0.823	-93.4	75.0	40.5	34.7	34.5	1.80149	5-6									
7	2.611	24.473	17.52734	-107.0	-4.8	-91.3	76.3	0.35543	0.812	-87.7	75.0	40.4	35.8	34.3	1.43254	6-7									

FEB. 20, 1965 9 HR 57 MIN 29 SEC 547 MS TAB NO 70 ATLAS PHOTO NO 12 POD SEQUENCE NO 1647

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				7.209	12.75032	2.539	24.200	1748.250	2.645	-42.041	74.101					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.596	24.515	16.04164	-103.2	-5.0	-93.1	76.8	0.32593	0.793	-90.6	75.1	38.1	37.5	36.8	0.	1-2
3	2.617	24.491	15.70286	-107.0	-4.8	-91.3	76.3	0.31843	0.812	-87.7	75.0	40.4	35.9	34.3	0.97191	2-3
4	2.618	24.546	16.69443	-105.3	-5.3	-91.4	76.5	0.33859	0.763	-87.5	75.1	35.8	40.4	39.0	1.64591	3-4
5	2.574	24.541	16.45149	-99.6	-5.2	-95.0	77.3	0.33361	0.774	-93.7	75.1	35.8	39.4	39.2	1.36641	4-5
6	2.575	24.487	15.48789	-100.7	-4.7	-94.7	77.2	0.31412	0.823	-93.4	75.0	40.5	34.7	34.5	1.61428	5-6
7	2.617	24.491	15.70286	-107.0	-4.8	-91.3	76.3	0.31843	0.812	-87.7	75.0	40.4	35.9	34.3	1.28346	6-7

FEB. 20, 1965 9 HR 57 MIN 30 SEC 387 MS TAB NO 71 ATLAS PHOTO NO 13 POD SEQUENCE NO 1648

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				6.369	11.26289	2.554	24.252	1746.763	2.646	-42.008	74.103					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.604	24.531	14.17692	-103.2	-5.0	-93.1	76.8	0.28804	0.793	-90.6	75.1	38.1	37.5	36.9	0.	1-2
3	2.623	24.510	13.87739	-107.0	-4.8	-91.3	76.3	0.28141	0.812	-87.7	75.1	40.4	35.9	34.3	0.85897	2-3
4	2.624	24.558	14.75419	-105.3	-5.3	-91.4	76.5	0.29924	0.763	-87.5	75.1	35.8	40.4	39.0	1.45488	3-4
5	2.584	24.553	14.53923	-99.6	-5.2	-95.0	77.3	0.29483	0.774	-93.7	75.1	35.8	39.4	39.2	1.20764	4-5
6	2.586	24.506	13.68716	-100.7	-4.7	-94.7	77.2	0.27760	0.823	-93.4	75.1	40.5	34.8	34.5	1.42690	5-6
7	2.623	24.510	13.87739	-107.0	-4.8	-91.3	76.3	0.28141	0.812	-87.7	75.1	40.4	35.9	34.3	1.13429	6-7

FEB. 20, 1965 9 HR 57 MIN 31 SEC 227 MS TAB NO 72 ATLAS PHOTO NO 14 POD SEQUENCE NO 1649

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				5.529	9.77592	2.569	24.304	1745.276	2.646	-41.975	74.106					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.613	24.547	12.31107	-103.2	-5.0	-93.1	76.8	0.25013	0.793	-90.6	75.1	38.1	37.6	36.9	0.	1-2
3	2.629	24.529	12.05082	-107.0	-4.8	-91.3	76.3	0.24437	0.811	-87.7	75.1	40.4	35.9	34.3	0.74596	2-3
4	2.630	24.570	12.81267	-105.3	-5.3	-91.4	76.5	0.25986	0.763	-87.5	75.1	35.8	40.4	39.0	1.26368	3-4
5	2.595	24.566	12.62576	-99.7	-5.2	-95.0	77.3	0.25603	0.774	-93.7	75.1	35.9	39.4	39.2	1.04875	4-5
6	2.597	24.525	11.88542	-100.7	-4.7	-94.7	77.1	0.24106	0.823	-93.4	75.1	40.5	34.8	34.5	1.23934	5-6
7	2.629	24.529	12.05082	-107.0	-4.8	-91.3	76.3	0.24437	0.811	-87.7	75.1	40.4	35.9	34.3	0.98501	6-7

RA-VIII CAMERA P3

19

FEB. 20, 1965 9 HR 57 MIN 32 SEC 67 MS TAB NO 73 ATLAS PHOTO NO 15 POD SEQUENCE NO 1650

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				4.689	8.28938	2.584	24.357	1743.789	2.647	-41.942	74.108					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.621	24.563	10.44396	-103.2	-5.0	-93.1	76.8	0.21220	0.793	-90.6	75.1	38.1	37.6	36.9	0.	1-2
3	2.635	24.547	10.22310	-107.0	-4.8	-91.3	76.3	0.20731	0.811	-87.7	75.1	40.4	35.9	34.4	0.63285	2-3
4	2.635	24.582	10.86977	-105.3	-5.3	-91.4	76.5	0.22046	0.763	-87.5	75.1	35.8	40.4	39.0	1.07226	3-4
5	2.606	24.579	10.71099	-99.7	-5.3	-95.0	77.3	0.21720	0.774	-93.7	75.1	35.9	39.4	39.3	0.88975	4-5
6	2.607	24.544	10.08259	-100.8	-4.7	-94.7	77.1	0.20449	0.823	-93.4	75.1	40.5	34.8	34.6	1.05160	5-6
7	2.635	24.547	10.22310	-107.0	-4.8	-91.3	76.3	0.20731	0.811	-87.7	75.1	40.4	35.9	34.4	0.83564	6-7

FEB. 20, 1965 9 HR 57 MIN 32 SEC 907 MS TAB NO 74 ATLAS PHOTO NO 16 POD SEQUENCE NO 1651

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				3.849	6.80321	2.598	24.409	1742.303	2.648	-41.910	74.111					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.629	24.578	8.57554	-103.2	-5.0	-93.1	76.8	0.17423	0.792	-90.6	75.1	38.1	37.6	36.9	0.	1-2
3	2.641	24.566	8.39408	-107.0	-4.8	-91.3	76.3	0.17022	0.811	-87.7	75.1	40.4	35.9	34.4	0.51967	2-3
4	2.641	24.595	8.92538	-105.3	-5.3	-91.4	76.5	0.18102	0.762	-87.5	75.2	35.8	40.4	39.0	0.88062	3-4
5	2.617	24.592	8.79484	-99.7	-5.3	-95.0	77.3	0.17834	0.774	-93.7	75.2	35.9	39.4	39.3	0.73061	4-5
6	2.618	24.563	8.27857	-100.8	-4.8	-94.7	77.1	0.16790	0.822	-93.4	75.1	40.5	34.8	34.6	0.86362	5-6
7	2.641	24.566	8.39408	-107.0	-4.8	-91.3	76.3	0.17022	0.811	-87.7	75.1	40.4	35.9	34.4	0.68616	6-7

FEB. 20, 1965 9 HR 57 MIN 33 SEC 747 MS TAB NO 75 ATLAS PHOTO NO 17 POD SEQUENCE NO 1652

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				3.009	5.31755	2.613	24.461	1740.818	2.649	-41.877	74.113					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.637	24.594	6.70602	-103.2	-5.0	-93.1	76.8	0.13625	0.792	-90.6	75.2	38.1	37.6	36.9	0.	1-2
3	2.646	24.584	6.56406	-107.0	-4.8	-91.3	76.3	0.13311	0.811	-87.7	75.1	40.4	36.0	34.4	0.40640	2-3
4	2.647	24.607	6.97976	-105.3	-5.3	-91.4	76.5	0.14156	0.762	-87.5	75.2	35.8	40.4	39.1	0.68878	3-4
5	2.628	24.605	6.87755	-99.7	-5.3	-95.0	77.3	0.13946	0.774	-93.7	75.2	35.9	39.4	39.3	0.57137	4-5
6	2.629	24.582	6.47362	-100.8	-4.8	-94.7	77.1	0.13130	0.822	-93.4	75.1	40.5	34.8	34.6	0.67547	5-6
7	2.646	24.584	6.56406	-107.0	-4.8	-91.3	76.3	0.13311	0.811	-87.7	75.1	40.4	36.0	34.4	0.53658	6-7

FEB. 20, 1965 9 HR 57 MIN 34 SEC 587 MS TAB NO 76 ATLAS PHOTO NO 18 POD SEQUENCE NO 1653

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				2.169	3.83235	2.628	24.514	1739.332	2.650	-41.844	74.116					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.646	24.610	4.83537	-103.2	-5.0	-93.1	76.8	0.09824	0.792	-90.6	75.2	38.1	37.6	36.9	0.	1-2
3	2.652	24.602	4.73296	-107.0	-4.8	-91.3	76.3	0.09598	0.811	-87.7	75.2	40.5	36.0	34.4	0.29305	2-3
4	2.652	24.619	5.03286	-105.3	-5.3	-91.4	76.5	0.10207	0.762	-87.5	75.2	35.8	40.5	39.1	0.49675	3-4
5	2.639	24.617	4.95907	-99.7	-5.3	-95.0	77.3	0.10056	0.773	-93.7	75.2	35.9	39.4	39.3	0.41200	4-5
6	2.639	24.601	4.66765	-100.8	-4.8	-94.7	77.1	0.09467	0.822	-93.4	75.2	40.5	34.9	34.6	0.48714	5-6
7	2.652	24.602	4.73296	-107.0	-4.8	-91.3	76.3	0.09598	0.811	-87.7	75.2	40.5	36.0	34.4	0.38690	6-7

RA-VIII CAMERA P3

20

FEB. 20, 1965 9 HR 57 MIN 35 SEC 427 MS TAB NO 77 ATLAS PHOTO NO 19 POD SEQUENCE NO 1654

TRAJECTORY DATA					SEC TO IMPACT	ALT	LAT	LCN	R	V	PTH	AZ				
					1.329	2.3747	2.643	24.567	1737.847	2.651	-41.811	74.118				
PHOTO DATA																
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.654	24.625	2.96326	-103.2	-5.1	-93.1	76.8	0.06021	0.792	-90.6	75.2	38.1	37.6	37.0	0.	1-2
3	2.658	24.621	2.90047	-107.0	-4.8	-91.3	76.3	0.05882	0.810	-87.7	75.2	40.5	36.0	34.4	0.17960	2-3
4	2.658	24.631	3.08436	-105.3	-5.3	-91.4	76.5	0.06256	0.762	-87.5	75.2	35.8	40.5	39.1	0.30449	3-4
5	2.650	24.630	3.03908	-99.7	-5.3	-95.0	77.2	0.06163	0.773	-93.7	75.2	35.9	39.5	39.3	0.25250	4-5
6	2.650	24.620	2.86039	-100.8	-4.8	-94.7	77.1	0.05801	0.822	-93.4	75.2	40.5	34.9	34.6	0.29859	5-6
7	2.658	24.621	2.90047	-107.0	-4.8	-91.3	76.3	0.05882	0.810	-87.7	75.2	40.5	36.0	34.4	0.23711	6-7

FEB. 20, 1965 9 HR 57 MIN 36 SEC 267 MS TAB NO 78 ATLAS PHOTO NO 20 POD SEQUENCE NO 1655

TRAJECTORY DATA					SEC TO IMPACT	ALT	LAT	LCN	R	V	PTH	AZ				
					0.489	0.86322	2.658	24.619	1736.363	2.652	-41.778	74.121				
PHOTO DATA																
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.662	24.641	1.09021	-103.2	-5.1	-93.1	76.8	0.02215	0.792	-90.6	75.2	38.1	37.7	37.0	0.	1-2
3	2.664	24.639	1.06710	-107.0	-4.8	-91.3	76.3	0.02164	0.810	-87.7	75.2	40.5	36.0	34.5	0.06607	2-3
4	2.664	24.643	1.11479	-105.3	-5.3	-91.4	76.5	0.02302	0.762	-87.5	75.2	35.8	40.5	39.1	0.11204	3-4
5	2.661	24.643	1.11811	-99.7	-5.3	-95.0	77.2	0.02247	0.773	-93.7	75.2	35.9	39.5	39.3	0.09290	4-5
6	2.661	24.639	1.05234	-100.8	-4.8	-94.7	77.1	0.02134	0.822	-93.4	75.2	40.5	34.9	34.7	0.11087	5-6
7	2.664	24.639	1.06710	-107.0	-4.8	-91.3	76.3	0.02164	0.810	-87.7	75.2	40.5	36.0	34.5	0.08724	6-7

TIME AND CAMERA-DEPENDENT PARAMETERS

1

FEB. 20, 1965 9 HR 46 MIN 4 SEC 494 MS TAB NO 1 POD SEQUENCE NO 831

TRAJECTORY DATA					SEC TO IMPACT	ALT	LAT	LCN	R	V	PTH	AZ				
					692.257	1270.97913	-4.519	-0.493	3006.479	2.156	-58.166	74.467				
PHOTO DATA																
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-6.081	8.518	1320.51851	-94.8	-1.8	-90.6	85.2	26.74681	0.934	-89.4	58.9	38.1	20.9	20.8	0.	1-2
3	-2.291	6.733	1306.07352	-108.9	-2.4	-91.1	79.3	26.40921	0.955	-86.6	57.1	40.5	17.6	16.4	76.52612	2-3
4	-2.323	10.529	1347.14380	-103.1	-2.5	-90.7	80.8	27.24012	0.902	-86.2	60.9	35.8	25.7	24.8	114.90485	3-4
5	-5.916	10.409	1343.58936	-84.7	-1.0	-90.4	80.5	27.16773	0.907	-92.5	60.8	35.8	25.1	24.9	108.97775	4-5
6	-5.774	6.610	1302.81578	-82.2	-1.4	-90.3	80.3	26.34382	0.959	-92.2	57.0	40.4	16.8	16.5	114.54158	5-6
7	-2.291	6.733	1306.07352	-108.9	-2.4	-91.1	79.3	26.40921	0.955	-86.6	57.1	40.5	17.6	16.4	105.57841	6-7

FEB. 20, 1965 9 HR 46 MIN 17 SEC 939 MS TAB NO 2 ATLAS PHOTO NO 1 POD SEQUENCE NO 847

TRAJECTORY DATA					SEC TO IMPACT	ALT	LAT	LCN	R	V	PTH	AZ				
					678.817	1246.35529	-4.440	-0.209	2981.955	2.162	-57.972	74.447				
PHOTO DATA																
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.951	8.852	1297.01324	-95.0	-1.8	-90.7	85.0	26.27071	0.932	-89.4	59.2	38.1	21.2	21.1	0.	1-2
3	-2.194	7.095	1282.58702	-108.9	-2.4	-91.1	79.2	25.93423	0.953	-86.6	57.4	40.5	18.0	16.7	75.20232	2-3
4	-2.222	10.832	1323.64516	-103.1	-2.5	-90.7	80.7	26.76493	0.903	-86.2	61.2	35.8	26.1	25.1	113.12665	3-4
5	-5.752	10.712	1319.87158	-85.2	-1.0	-90.6	80.1	26.68807	0.905	-92.5	61.1	35.8	25.4	25.2	106.99581	4-5
6	-5.615	6.974	1279.13235	-82.9	-1.4	-90.4	89.9	25.86490	0.957	-92.2	57.4	40.4	17.1	16.9	112.73862	5-6
7	-2.194	7.095	1282.58702	-108.9	-2.4	-91.1	79.2	25.93423	0.953	-86.6	57.4	40.5	18.0	16.7	103.67713	6-7

FEB. 20, 1965 9 HR 46 MIN 21 SEC 244 MS TAB NO 3 POD SEQUENCE NO 851

TRAJECTORY DATA					SEC TO IMPACT	ALT	LAT	LCN	R	V	PTH	AZ				
					675.457	1240.19626	-4.420	-0.138	2975.696	2.163	-57.923	74.441				
PHOTO DATA																
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.918	9.335	1291.13174	-95.1	-1.9	-90.7	84.9	26.15158	0.932	-89.4	59.3	38.1	21.3	21.2	0.	1-2
3	-2.170	7.186	1276.71146	-108.8	-2.4	-91.1	79.2	25.81541	0.952	-86.6	57.5	40.5	18.1	16.8	74.87101	2-3
4	-2.197	10.908	1317.76288	-103.1	-2.5	-90.7	80.7	26.64598	0.899	-86.2	61.3	35.8	26.1	25.1	112.68098	3-4
5	-5.711	10.788	1313.93593	-85.3	-1.0	-90.6	90.0	26.56803	0.904	-92.5	61.2	35.8	25.5	25.3	106.51987	4-5
6	-5.575	7.065	1284.14041	-85.1	-1.4	-90.4	89.7	25.74512	0.957	-92.2	57.5	40.4	17.2	17.0	112.28688	5-6
7	-2.170	7.186	1276.71146	-108.8	-2.4	-91.1	79.2	25.81541	0.952	-86.6	57.5	40.5	18.1	16.8	103.20156	6-7

FEB. 20, 1965 9 HR 46 MIN 30 SEC 99 MS TAB NO 4 POD SEQUENCE NO 871

TRAJECTORY DATA					SEC TO IMPACT	ALT	LAT	LCN	R	V	PTH	AZ				
					658.656	1209.38406	-4.319	0.225	2944.884	2.171	-57.675	74.415				
PHOTO DATA																
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.751	9.347	1261.63933	-95.5	-1.9	-90.8	84.5	25.55422	0.929	-89.4	59.7	38.1	21.7	21.6	0.	1-2
3	-2.044	7.634	1247.27933	-108.8	-2.5	-91.1	79.0	25.22019	0.950	-86.6	58.0	40.5	18.5	17.2	73.20528	2-3
4	-2.066	11.282	1288.24940	-103.3	-2.6	-90.7	80.5	26.04917	0.896	-86.2	61.6	35.8	26.5	25.5	110.43272	3-4
5	-5.502	11.161	1284.14041	-85.8	-1.1	-90.7	89.4	25.96547	0.901	-92.5	61.5	35.8	25.8	25.7	104.13237	4-5
6	-5.370	7.515	1243.52362	-84.0	-1.5	-90.6	89.1	25.14483	0.955	-92.2	57.9	40.4	17.6	17.4	110.00644	5-6
7	-2.044	7.634	1247.27933	-108.8	-2.5	-91.1	79.0	25.22019	0.950	-86.6	58.0	40.5	18.5	17.2	100.82021	6-7

RA-VIII CAMERA P4

2

FEB. 20, 1965 9 HR 46 MIN 54 SEC 849 MS TAB NO 5 POD SEQUENCE NO 891

TRAJECTORY DATA					SEC TO IMPACT	ALT	LAT	LCN	R	V	PTH	AZ				
					641.856	1178.54285	-4.216	0.596	2914.043	2.180	-57.422	74.390				
PHOTO DATA																
PT	LAT	LCN	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	-3.586	9.754	1232.03932	-95.8	-1.9	-90.9	84.2	24.95468	0.926	-89.4	60.1	38.1	22.1	22.0	0.	1-2
3	-1.921	8.078	1217.75221	-108.8	-2.5	-91.1	78.8	24.62306	0.947	-86.6	58.4	40.5	19.0	17.7	71.53239	2-3
4	-1.939	11.651	1258.58229	-103.4	-2.6	-90.8	80.5	25.44925	0.893	-86.2	62.0	35.9	26.9	25.9	108.15903	3-4
5	-5.295	11.529	1254.22577	-86.4	-1.1	-90.9	89.0	25.36049	0.899	-92.5	61.9	35.8	26.2	26.3	101.73384	4-5
6	-5.169	7.961	1213.77536	-84.8	-1.5	-90.7	88.5	24.54328	0.953	-92.2	58.3	40.4	18.0	17.9	107.70378	5-6
7	-1.921	8.078	1217.75221	-108.8	-2.5	-91.1	78.8	24.62306	0.947	-86.6	58.4	40.5	19.0	17.7	98.43227	6-7

FEB. 20, 1965 9 HR 47 MIN 11 SEC 699 MS TAB NO 6 POD SEQUENCE NO 911

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				625.056	1147.67429	-4.111	0.974	2883.174	2.188	-57.164	74.364					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-3.419	10.165	1202.41696	-96.2	-1.9	-91.0	83.8	24.35469	0.924	-89.4	60.5	38.1	22.5	22.4	0.	1- 2
3	-1.795	8.526	1188.21693	-108.7	-2.5	-91.2	78.7	24.02576	0.944	-86.6	58.9	40.5	19.5	18.1	69.85672	2- 3
4	-1.809	12.023	1228.88612	-103.5	-2.6	-90.8	80.1	24.84874	0.890	-86.2	62.4	35.9	27.3	26.2	105.88148	3- 4
5	-5.086	11.901	1224.27667	-86.9	-1.2	-91.0	88.4	24.75482	0.896	-92.4	62.3	35.8	26.5	26.4	99.33419	4- 5
6	-4.964	8.410	1184.01468	-85.6	-1.5	-90.9	88.0	23.94147	0.950	-92.2	58.8	40.4	18.4	18.3	105.39627	5- 6
7	-1.795	8.526	1188.21693	-108.7	-2.5	-91.2	78.7	24.02576	0.944	-86.6	58.9	40.5	19.5	18.1	96.04481	6- 7

FEB. 20, 1965 9 HR 47 MIN 28 SEC 500 MS TAB NO 7 POD SEQUENCE NO 931

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				608.256	1116.77844	-4.003	1.361	2852.278	2.196	-56.901	74.338					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-3.250	10.578	1172.76353	-96.6	-2.0	-91.0	83.4	23.75406	0.921	-89.4	60.9	38.1	23.0	22.8	0.	1- 2
3	-1.668	8.976	1158.65656	-108.7	-2.5	-91.2	78.5	23.42796	0.942	-86.6	59.3	40.5	19.9	18.6	68.17918	2- 3
4	-1.678	12.398	1199.14148	-103.6	-2.7	-90.8	79.9	24.24726	0.887	-86.2	62.8	35.9	27.7	26.6	103.59773	3- 4
5	-4.875	12.275	1194.29332	-87.4	-1.2	-91.1	88.0	24.14846	0.893	-92.4	62.6	35.8	26.9	26.8	96.93199	4- 5
6	-4.758	8.862	1154.24251	-86.4	-1.5	-91.0	87.4	23.33943	0.948	-92.2	59.2	40.4	18.9	18.8	103.08357	5- 6
7	-1.668	8.976	1158.65656	-108.7	-2.5	-91.2	78.5	23.42796	0.942	-86.6	59.3	40.5	19.9	18.6	93.65636	6- 7

FEB. 20, 1965 9 HR 47 MIN 45 SEC 300 MS TAB NO 8 POD SEQUENCE NO 951

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				591.456	1085.85660	-3.892	1.756	2821.357	2.205	-56.633	74.313					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-3.082	10.994	1143.07443	-96.9	-2.0	-91.1	83.1	23.15272	0.918	-89.3	61.3	38.1	23.4	23.2	0.	1- 2
3	-1.541	9.429	1129.06674	-108.6	-2.5	-91.2	78.4	22.82956	0.939	-86.6	59.8	40.5	20.4	19.0	66.49955	2- 3
4	-1.546	12.775	1169.34221	-103.7	-2.7	-90.8	79.7	23.64467	0.884	-86.2	63.1	35.9	28.1	27.0	101.30658	3- 4
5	-4.665	12.651	1164.27071	-88.0	-1.3	-91.3	87.5	23.54131	0.890	-92.4	63.0	35.8	27.3	27.2	94.52654	4- 5
6	-4.552	9.316	1124.45544	-87.2	-1.5	-91.2	86.9	22.73709	0.945	-92.2	59.7	40.4	19.3	19.2	100.76464	5- 6
7	-1.541	9.429	1129.06674	-108.6	-2.5	-91.2	78.4	22.82956	0.939	-86.6	59.8	40.5	20.4	19.0	91.26663	6- 7

RA-VIII CAMERA P4

3

FEB. 20, 1965 9 HR 48 MIN 2 SEC 100 MS TAB NO 9 POD SEQUENCE NO 971

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				574.655	1054.90985	-3.779	2.159	2790.410	2.213	-56.360	74.288					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-2.913	11.411	1113.32765	-97.2	-2.1	-91.2	82.8	22.55020	0.915	-89.3	61.8	38.1	23.8	23.6	0.	1- 2
3	-1.414	9.983	1099.42915	-108.6	-2.6	-91.2	78.2	22.23020	0.936	-86.6	60.2	40.5	20.9	19.5	64.81596	2- 3
4	-1.416	13.153	1139.46123	-103.8	-2.8	-90.8	79.5	23.04043	0.880	-86.2	63.5	35.9	28.5	27.4	99.00272	3- 4
5	-4.454	13.029	1134.18266	-88.5	-1.4	-91.4	87.0	22.93284	0.887	-92.4	63.4	35.8	27.6	27.6	92.11547	4- 5
6	-4.346	9.771	1094.63596	-87.9	-1.6	-91.3	86.4	22.31409	0.943	-92.2	60.1	40.4	19.7	19.7	98.43431	5- 6
7	-1.414	9.983	1099.42915	-108.6	-2.6	-91.2	78.2	22.23020	0.936	-86.6	60.2	40.5	20.9	19.5	88.87399	6- 7

FEB. 20, 1965 9 HR 48 MIN 14 SEC 900 MS TAB NO 10 POD SEQUENCE NO 991

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				557.855	1023.93921	-3.663	2.572	2759.439	2.222	-56.081	74.263					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-2.745	11.827	1083.50568	-97.5	-2.1	-91.3	82.5	21.94616	0.912	-89.3	62.2	38.1	24.3	24.0	0.	1- 2
3	-1.287	10.337	1069.72935	-108.6	-2.6	-91.2	78.1	21.82958	0.933	-86.5	60.7	40.5	21.3	19.9	93.12662	2- 3
4	-1.285	13.530	1109.47769	-103.9	-2.8	-90.9	79.4	22.43412	0.877	-86.2	63.9	35.9	28.9	27.7	96.68194	3- 4
5	-4.244	13.405	1104.00800	-89.0	-1.4	-91.5	86.6	22.32261	0.884	-92.4	63.8	35.8	28.0	27.9	89.69715	4- 5
6	-4.140	10.226	1064.76913	-88.6	-1.6	-91.4	85.9	21.53014	0.940	-92.2	60.6	40.4	20.2	20.1	96.08843	5- 6
7	-1.287	10.337	1069.72935	-108.6	-2.6	-91.2	78.1	21.82958	0.933	-86.5	60.7	40.5	21.3	19.9	86.47713	6- 7

FEB. 20, 1965 9 HR 48 MIN 35 SEC 700 MS TAB NO 11 POD SEQUENCE NO 1011

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				541.055	992.94592	-3.544	2.994	2728.446	2.231	-55.796	74.238					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-2.573	12.244	1053.60947	-97.8	-2.2	-91.3	82.2	21.34062	0.908	-89.3	62.6	38.1	24.7	24.5	0.	1- 2
3	-1.157	10.791	1039.97633	-108.6	-2.6	-91.2	77.9	21.02789	0.930	-86.5	61.2	40.5	21.8	20.4	61.43019	2- 3
4	-1.151	13.907	1079.40067	-104.0	-2.9	-90.9	79.2	21.82592	0.874	-86.2	64.3	35.9	29.3	28.1	94.34457	3- 4
5	-4.030	13.781	1073.73915	-89.5	-1.5	-91.6	86.1	21.71049	0.881	-92.4	64.1	35.8	28.4	28.3	87.27267	4- 5
6	-3.930	10.681	1034.84886	-89.3	-1.6	-91.6	85.4	20.92511	0.937	-92.2	61.0	40.4	20.6	20.6	93.72553	5- 6
7	-1.157	10.791	1039.97633	-108.6	-2.6	-91.2	77.9	21.02789	0.930	-86.5	61.2	40.5	21.8	20.4	84.07717	6- 7

FEB. 20, 1965 9 HR 48 MIN 52 SEC 501 MS TAB NO 12 POD SEQUENCE NO 1031

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				524.255	961.93149	-3.423	3.425	2697.431	2.241	-55.505	74.213					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	-2.401	12.659	1023.62748	-98.1	-2.2	-91.4	81.9	20.73335	0.905	-89.3	63.0	38.1	25.1	24.9	0.	1- 2
3	-1.026	11.245	1010.15240	-108.5	-2.7	-91.3	77.8	20.42477	0.927	-86.5	61.6	40.5	22.3	20.8	59.72693	2- 3
4	-1.017	14.283	1049.20995	-104.1	-3.0	-90.9	79.0	21.21542	0.870	-86.1	64.7	35.9	29.7	28.5	91.98776	3- 4
5	-3.816	14.157	1043.37109	-90.0	-1.6	-91.8	85.7	21.09636	0.878	-92.4	64.5	35.8	28.7	28.7	84.84007	4- 5
6	-3.720	11.136	1004.87104	-89.9	-1.7	-91.7	84.9	20.31892	0.935	-92.2	61.5	40.4	21.1	21.1	91.34447	5- 6
7	-1.026	11.245	1010.15240	-108.5	-2.7	-91.3	77.8	20.42477	0.927	-86.5	61.6	40.5	22.3	20.8	81.67230	6- 7

RA-VIII CAMERA P4

4

FEB. 20, 1965 9 HR 49 MIN 9 SEC 301 MS TAB NO 13 POD SEQUENCE NO 1051

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				507.455		930.89706	-3.298	3.867	2666.397	2.250	-55.208	74.189			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-2.228	13.071	793.50146	-98.5	-2.3	-91.5	81.5	20.12315	0.902	-89.3	63.4	38.1	25.6	25.3	0.
3	-0.895	11.695	980.20555	-108.5	-2.7	-91.3	77.6	19.81916	0.924	-86.5	62.1	40.5	22.8	21.3	58.01221
4	-0.883	14.653	1018.83289	-104.2	-3.0	-90.9	78.8	20.60116	0.867	-86.1	65.0	35.9	30.1	28.9	89.59768
5	-3.601	14.527	1012.83820	-90.4	-1.7	-91.9	85.2	20.47890	0.875	-92.4	64.9	35.8	29.1	29.1	82.39307
6	-3.509	11.587	974.78980	-90.6	-1.7	-91.8	84.5	19.71064	0.932	-92.1	61.9	40.4	21.5	21.5	88.93238
7	-0.895	11.695	980.20555	-108.5	-2.7	-91.3	77.6	19.81916	0.924	-86.5	62.1	40.5	22.8	21.3	79.25820

FEB. 20, 1965 9 HR 49 MIN 26 SEC 101 MS TAB NO 14 POD SEQUENCE NO 1071

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				490.654		899.84442	-3.170	4.319	2635.344	2.260	-54.905	74.165			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-2.060	13.480	963.25012	-98.7	-2.3	-91.5	81.3	19.51042	0.899	-89.3	63.8	38.1	26.0	25.7	0.
3	-0.769	12.143	950.14243	-108.5	-2.7	-91.3	77.5	19.11211	0.920	-86.5	62.5	40.5	23.2	21.7	56.28965
4	-0.757	15.071	988.28686	-104.3	-3.1	-90.9	78.7	19.98348	0.863	-86.1	65.4	35.9	30.5	29.2	87.17915
5	-3.390	14.895	982.17263	-90.9	-1.7	-92.0	84.9	19.85877	0.872	-92.4	65.3	35.8	29.5	29.4	79.93262
6	-3.303	12.036	944.62513	-91.2	-1.8	-91.9	84.1	19.10067	0.929	-92.1	62.4	40.4	22.0	22.0	86.49569
7	-0.769	12.143	950.14243	-108.5	-2.7	-91.3	77.5	19.21121	0.920	-86.5	62.5	40.5	23.2	21.7	76.83491

FEB. 20, 1965 9 HR 49 MIN 42 SEC 901 MS TAB NO 15 POD SEQUENCE NO 1091

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				473.854		868.77515	-3.039	4.781	2604.275	2.269	-54.595	74.142			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-1.889	13.891	932.93410	-99.0	-2.4	-91.6	81.0	18.89637	0.896	-89.3	64.3	38.1	26.4	26.1	0.
3	-0.639	12.593	920.02942	-108.5	-2.8	-91.3	77.4	18.60226	0.917	-86.5	63.0	40.5	23.7	22.2	54.56123
4	-0.622	15.391	957.65980	-104.4	-3.1	-90.9	78.5	19.36416	0.860	-86.1	65.8	35.9	30.9	29.6	84.74675
5	-3.177	15.264	951.42946	-91.3	-1.8	-92.1	84.4	19.23707	0.869	-92.3	65.6	35.8	29.8	29.8	77.46674
6	-3.094	12.486	914.41396	-91.7	-1.8	-92.0	83.6	18.48977	0.926	-92.1	62.9	40.4	22.4	22.4	84.06528
7	-0.639	12.593	920.02942	-108.5	-2.8	-91.3	77.4	18.60226	0.917	-86.5	63.0	40.5	23.7	22.2	74.40839

FEB. 20, 1965 9 HR 49 MIN 43 SEC 741 MS TAB NO 16 ATLAS PHOTO NO 2 POD SEQUENCE NO 1092

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				473.014		867.22144	-3.032	4.805	2602.721	2.270	-54.579	74.141			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-1.880	13.911	931.41356	-99.0	-2.4	-91.6	81.0	18.89637	0.895	-89.3	64.3	38.1	26.4	26.1	0.
3	-0.633	12.616	918.52451	-108.5	-2.8	-91.3	77.4	18.57183	0.917	-86.5	63.0	40.5	23.7	22.2	54.47475
4	-0.616	15.410	966.12898	-104.4	-3.1	-90.9	78.5	19.33321	0.860	-86.1	65.8	35.9	30.9	29.6	84.62523
5	-3.166	15.283	949.89213	-91.4	-1.8	-92.1	84.4	19.20598	0.869	-92.3	65.6	35.8	29.8	29.8	77.34356
6	-3.083	12.509	912.90353	-91.8	-1.8	-92.0	83.6	18.45923	0.926	-92.1	62.9	40.4	22.4	22.4	83.92275
7	-0.633	12.616	918.52451	-108.5	-2.8	-91.3	77.4	18.57183	0.917	-86.5	63.0	40.5	23.7	22.2	74.28725

RA-VIII CAMERA P4

5

FEB. 20, 1965 9 HR 49 MIN 59 SEC 701 MS TAB NO 17 POD SEQUENCE NO 1111

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				457.054		837.69122	-2.904	5.255	2573.191	2.279	-54.278	74.119			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-1.716	14.301	902.51839	-99.3	-2.5	-91.6	80.7	18.28031	0.892	-89.3	64.7	38.1	26.9	26.5	0.
3	-0.508	13.043	889.83656	-108.5	-2.8	-91.3	77.3	17.99169	0.914	-86.5	63.4	40.5	24.2	22.6	52.82386
4	-0.489	15.760	926.90932	-104.5	-3.2	-90.9	78.3	18.74236	0.856	-86.1	66.2	35.9	31.3	29.9	82.29214
5	-2.961	15.633	920.56784	-91.8	-1.9	-92.2	84.0	18.61298	0.866	-92.3	66.0	35.8	30.2	30.2	74.99197
6	-2.892	12.937	884.12760	-92.3	-1.9	-92.1	83.2	17.87735	0.923	-92.1	63.3	40.4	22.9	22.9	81.57298
7	-0.508	13.043	889.83656	-108.5	-2.8	-91.3	77.3	17.99169	0.914	-86.5	63.4	40.5	24.2	22.6	71.97637

FEB. 20, 1965 9 HR 50 MIN 16 SEC 502 MS TAB NO 18 POD SEQUENCE NO 1131

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				440.254		806.59451	-2.766	5.741	2542.095	2.290	-53.954	74.097			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-1.545	14.715	872.03468	-99.6	-2.5	-91.7	80.4	17.66287	0.889	-89.2	65.1	38.1	27.3	26.9	0.
3	-0.379	13.496	859.57747	-108.5	-2.9	-91.3	77.1	17.37979	0.910	-86.5	63.9	40.5	24.7	23.1	51.08319
4	-0.358	16.132	896.06400	-104.6	-3.3	-90.9	78.2	18.11863	0.853	-86.1	66.5	35.9	31.7	30.3	79.82329
5	-2.748	16.004	889.63964	-92.2	-2.0	-92.3	83.6	17.98755	0.862	-92.3	66.4	35.8	30.6	30.6	72.50962
6	-2.673	13.391	853.80074	-92.9	-2.0	-92.3	82.8	17.26410	0.920	-92.1	63.8	40.4	23.3	23.3	79.08930
7	-0.379	13.496	859.57747	-108.5	-2.9	-91.3	77.1	17.37979	0.910	-86.5	63.9	40.5	24.7	23.1	69.53928

FEB. 20, 1965 9 HR 50 MIN 33 SEC 302 MS TAB NO 19 POD SEQUENCE NO 1151

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ			
				423.454		775.48724	-2.625	6.238	2510.987	2.300	-53.623	74.075			
PHOTO DATA															
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT	
2	-1.375	15.128	841.43502	-99.8	-2.6	-91.7	80.2	17.04308	0.885	-89.2	65.5	38.1	27.7	27.3	0.
3	-0.251	13.949	829.21636	-108.5	-2.9	-91.3	77.0	16.76583	0.907	-86.5	64.4	40.5	25.1	23.5	49.33380
4	-0.227	16.502	865.07055	-104.7	-3.3	-90.9	78.0	17.49191	0.849	-86.1	66.9	35.9	32.1	30.7	77.32873
5	-2.535	16.375	858.58321	-92.7	-2.1	-92.4	83.3	17.35952	0.859	-92.3	66.7	35.8	30.9	30.9	70.01556
6	-2.463	13.845	823.38980	-93.4	-2.0	-92.4	82.4	16.64916	0.917	-92.1	64.2	40.4	23.8	23.8	76.58213
7	-0.251	13.949	829.21636	-108.5	-2.9	-91.3	77.0	16.76583	0.907	-86.5	64.4	40.5	25.1	23.5	67.09396

FEB. 20, 1965 9 HR 50 MIN 50 SEC 102 MS

TAB NO 20

POD SEQUENCE NO 1171

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				406.853		744.37164		-2.479		6.748		2479.872		2.311		-53.284		74.054	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-1.204	15.539	810.69818	-100.1	-2.7	-91.8	79.9	16.42051	0.882	-89.2	65.9	38.1	28.2	27.7	0.	1-2			
3	-0.122	14.401	798.73460	-108.5	-3.0	-91.3	76.9	16.14943	0.903	-86.4	64.8	40.5	25.6	24.0	47.57390	2-3			
4	-0.096	16.870	833.90424	-104.8	-3.4	-90.9	77.9	16.86169	0.845	-86.1	67.3	35.9	32.5	31.1	74.80376	3-4			
5	-2.321	16.743	827.37429	-93.1	-2.2	-92.5	82.9	16.72842	0.856	-92.3	67.1	35.8	31.3	31.3	67.50777	4-5			
6	-2.253	14.298	792.87646	-93.9	-2.1	-92.5	82.1	16.03215	0.913	-92.1	64.7	40.4	24.3	24.2	74.04679	5-6			
7	-0.122	14.401	798.73460	-108.5	-3.0	-91.3	76.9	16.14943	0.903	-86.4	64.8	40.5	25.6	24.0	64.63917	6-7			

RA-VIII CAMERA P4

6

FEB. 20, 1965 9 HR 51 MIN 5 SEC 502 MS

TAB NO 21

POD SEQUENCE NO 1191

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				389.853		713.25009		-2.330		7.270		2448.750		2.322		-52.938		74.034	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-1.035	15.942	779.72456	-100.3	-2.7	-91.8	79.7	15.79315	0.878	-89.2	66.3	38.1	28.6	28.1	0.	1-2			
3	0.005	14.845	768.04655	-108.5	-3.0	-91.3	76.8	15.52887	0.900	-86.4	65.3	40.5	26.1	24.4	45.79496	2-3			
4	0.032	17.229	802.44669	-104.9	-3.5	-90.9	77.7	16.28559	0.842	-86.1	67.7	35.9	32.8	31.4	72.22498	3-4			
5	-2.109	17.103	795.89726	-93.5	-2.3	-92.6	82.5	16.09191	0.852	-92.3	67.5	35.8	31.7	31.7	64.97651	4-5			
6	-2.044	14.743	762.17683	-94.4	-2.2	-92.6	81.7	15.41138	0.910	-92.1	65.1	40.4	24.7	24.7	71.46073	5-6			
7	0.005	14.845	768.04655	-108.5	-3.0	-91.3	76.8	15.52887	0.900	-86.4	65.3	40.5	26.1	24.4	62.16798	6-7			

FEB. 20, 1965 9 HR 51 MIN 12 SEC 782 MS

TAB NO 22

ATLAS PHOTO NO 3

POD SEQUENCE NO 1198

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				383.973		702.35663		-2.277		7.456		2437.857		2.325		-52.815		74.027	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-0.974	16.086	768.89209	-100.4	-2.8	-91.9	79.6	15.57374	0.877	-89.2	66.5	38.1	28.7	28.3	0.	1-2			
3	0.051	15.003	757.31416	-108.5	-3.1	-91.2	76.7	15.31185	0.898	-86.4	65.4	40.5	26.2	24.6	45.17292	2-3			
4	0.079	17.357	791.44686	-104.9	-3.5	-90.9	77.7	16.00317	0.840	-86.0	67.8	35.9	33.0	31.5	71.32486	3-4			
5	-2.033	17.231	784.88952	-93.6	-2.4	-92.6	82.4	15.86932	0.851	-92.3	67.6	35.8	31.8	31.8	64.09177	4-5			
6	-1.970	14.901	751.43960	-94.6	-2.2	-92.6	81.6	15.19426	0.909	-92.1	65.3	40.4	24.9	24.8	70.55779	5-6			
7	0.051	15.003	757.31416	-108.5	-3.1	-91.2	76.7	15.31185	0.898	-86.4	65.4	40.5	26.2	24.6	61.30393	6-7			

FEB. 20, 1965 9 HR 51 MIN 23 SEC 702 MS

TAB NO 23

POD SEQUENCE NO 1211

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				373.053		682.12564		-2.177		7.806		2417.626		2.333		-52.583		74.014	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-0.862	16.352	748.72346	-100.6	-2.8	-91.9	79.4	15.16523	0.874	-89.2	66.8	38.1	29.0	28.5	0.	1-2			
3	0.136	15.295	737.33605	-108.5	-3.1	-91.2	76.6	14.90786	0.896	-86.4	65.7	40.5	26.6	24.9	44.01391	2-3			
4	0.164	17.594	770.95418	-105.0	-3.5	-90.9	77.6	15.88879	0.838	-86.0	68.0	35.9	33.2	31.8	69.64192	3-4			
5	-1.893	17.469	764.39128	-93.9	-2.4	-92.7	82.2	15.45482	0.849	-92.3	67.9	35.8	32.1	32.0	62.44315	4-5			
6	-1.832	15.195	731.46065	-94.9	-2.2	-92.6	81.4	14.79027	0.907	-92.0	65.6	40.4	25.2	25.1	68.87071	5-6			
7	0.136	15.295	737.33605	-108.5	-3.1	-91.2	76.6	14.90786	0.896	-86.4	65.7	40.5	26.6	24.9	59.69536	6-7			

FEB. 20, 1965 9 HR 51 MIN 40 SEC 503 MS

TAB NO 24

POD SEQUENCE NO 1231

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				356.253		651.00085		-2.019		8.356		2386.501		2.344		-52.220		73.996	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-0.693	16.759	717.54855	-100.8	-2.9	-91.9	79.2	14.53378	0.871	-89.2	67.2	38.1	29.5	29.0	0.	1-2			
3	0.263	15.744	706.46574	-108.5	-3.2	-91.2	76.5	14.28363	0.892	-86.4	66.2	40.5	27.0	25.3	42.22064	2-3			
4	0.293	17.956	739.24303	-105.1	-3.6	-90.9	77.4	14.94757	0.834	-86.0	68.4	35.9	33.6	32.1	67.02085	3-4			
5	-1.681	17.832	732.69892	-94.3	-2.5	-92.8	81.8	14.81396	0.845	-92.3	68.2	35.8	32.4	32.4	59.89127	4-5			
6	-1.623	15.644	700.61323	-95.3	-2.3	-92.7	81.0	14.16651	0.903	-92.0	66.0	40.4	25.6	25.6	66.24653	5-6			
7	0.263	15.744	706.46574	-108.5	-3.2	-91.2	76.5	14.28363	0.892	-86.4	66.2	40.5	27.0	25.3	57.20925	6-7			

RA-VIII CAMERA P4

7

FEB. 20, 1965 9 HR 51 MIN 57 SEC 303 MS

TAB NO 25

POD SEQUENCE NO 1251

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				339.453		619.87918		-1.857		8.921		2355.379		2.355		-51.848		73.979	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-0.523	17.165	686.22777	-101.0	-3.0	-92.0	79.0	13.89939	0.867	-89.2	67.6	38.1	29.9	29.4	0.	1-2			
3	0.390	16.192	675.46724	-108.5	-3.2	-91.2	76.4	13.65680	0.888	-86.4	66.6	40.5	27.5	25.8	40.41584	2-3			
4	0.421	18.317	707.35394	-105.2	-3.7	-90.9	77.3	14.30274	0.830	-86.0	68.8	35.9	34.0	32.5	64.6821	3-4			
5	-1.468	18.193	700.84460	-94.7	-2.6	-92.9	81.5	14.16983	0.842	-92.3	68.6	35.8	32.8	32.8	57.32500	4-5			
6	-1.414	16.094	669.65179	-95.8	-2.4	-92.8	80.7	13.54044	0.900	-92.0	66.5	40.4	26.1	26.0	63.59276	5-6			
7	0.390	16.192	675.46724	-108.5	-3.2	-91.2	76.4	13.65680	0.888	-86.4	66.6	40.5	27.5	25.8	54.71280	6-7			

FEB. 20, 1965 9 HR 52 MIN 14 SEC 103 MS

TAB NO 26

POD SEQUENCE NO 1271

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
				322.652		588.76398		-1.691		9.500		2324.264		2.367		-51.467		73.962	
PHOTO DATA																			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	-0.353	17.570	654.74674	-101.3	-3.1	-92.0	78.7	13.26175	0.863	-89.2	68.0	38.1	30.3	29.8	0.	1-2			
3	0.517	16.639	644.32510	-108.5	-3.3	-91.2	76.3	13.02708	0.885	-86.4	67.1	40.5	28.0	26.2	38.59891	2-3			
4	0.549	18.676	675.26868	-105.3	-3.8	-90.9	77.1	13.65396	0.827	-86.0	69.1	35.9	34.4	32.9	61.68106	3-4			
5	-1.254	18.553	668.81501	-95.1	-2.8	-93.0	81.1	13.52217	0.838	-92.2	69.0	35.8	33.2	33.1	54.74263	4-5			
6	-1.203	16.543	638.56509	-96.2	-2.5	-92.9	80.4	12.91185	0.896	-92.0	66.9	40.4	26.6	26.5	60.90709	5-6			
7	0.517	16.639	644.32510	-108.5	-3.3	-91.2	76.3	13.02708	0.885	-86.4	67.1	40.5	28.0	26.2	52.20458	6-7			

FEB. 20, 1965 9 HR 52 MIN 30 SEC 903 MS TAB NO 27 POD SEQUENCE NO 1291

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				305.852	557.65891	-1.520	10.095	2293.159	2.379	-51.076	73.947					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT		
2	-0.184	17.972	623.07737	-101.5	-3.2	-92.0	78.5	12.62029	0.859	-89.1	68.4	38.1	30.8	0.	1-2	
3	0.644	17.085	613.01305	-108.5	-3.4	-91.2	76.2	12.39393	0.881	-86.4	67.5	40.5	28.4	26.7	36.76769	2-3
4	0.676	19.031	642.95391	-105.4	-3.9	-90.9	77.0	13.00053	0.823	-86.0	69.5	35.9	34.8	33.2	58.95331	3-4
5	-1.041	18.910	636.57993	-95.5	-2.9	-93.0	80.8	12.87035	0.835	-92.2	69.3	35.8	33.6	33.5	52.14106	4-5
6	-0.994	16.990	607.32958	-96.6	-2.6	-93.0	80.0	12.28025	0.892	-92.0	67.4	40.4	27.0	27.0	58.18391	5-6
7	0.644	17.085	613.01305	-108.5	-3.4	-91.2	76.2	12.39393	0.881	-86.4	67.5	40.5	28.4	26.7	49.68207	6-7

FEB. 20, 1965 9 HR 52 MIN 47 SEC 703 MS TAB NO 28 POD SEQUENCE NO 1311

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				289.052	526.56796	-1.344	10.707	2262.068	2.392	-50.676	73.933					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT		
2	-0.020	18.370	591.16275	-101.7	-3.3	-92.1	78.3	11.97387	0.856	-89.2	68.8	38.1	30.6	0.	1-2	
3	0.765	17.526	581.47173	-108.5	-3.4	-91.2	76.1	11.75616	0.877	-86.4	68.0	40.5	28.9	27.1	34.91956	2-3
4	0.797	19.380	610.33667	-105.4	-3.9	-90.9	76.9	12.34099	0.819	-86.0	69.8	35.9	35.1	33.6	56.17289	3-4
5	-0.833	19.262	604.08493	-95.8	-3.0	-93.1	80.5	12.21330	0.831	-92.2	69.7	35.8	33.9	33.9	49.51261	4-5
6	-0.789	17.433	575.90205	-97.0	-2.7	-93.1	79.8	11.64476	0.889	-92.0	67.8	40.4	27.5	27.4	55.41365	5-6
7	0.765	17.526	581.47173	-108.5	-3.4	-91.2	76.1	11.75616	0.877	-86.4	68.0	40.5	28.9	27.1	47.13925	6-7

RA-VIII CAMERA P4

8

FEB. 20, 1965 9 HR 53 MIN 4 SEC 504 MS TAB NO 29 POD SEQUENCE NO 1331

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				272.252	495.49542	-1.163	11.335	2230.995	2.404	-50.265	73.921					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT		
2	-0.142	18.767	559.07253	-101.9	-3.3	-92.1	78.1	11.32389	0.852	-89.2	69.2	38.1	31.6	0.	1-2	
3	0.884	17.967	549.76845	-108.5	-3.5	-91.1	76.1	11.11511	0.873	-86.4	68.4	40.5	29.4	27.5	33.05890	2-3
4	0.916	19.728	577.50645	-105.5	-4.0	-90.9	76.8	11.67715	0.815	-86.0	70.2	35.9	35.5	33.9	53.35607	3-4
5	-0.627	19.613	571.40293	-96.1	-3.1	-93.2	80.2	11.55247	0.828	-92.2	70.0	35.8	34.3	34.2	46.86572	4-5
6	-0.585	17.876	544.33543	-97.4	-2.8	-93.1	79.5	11.00647	0.885	-92.0	68.3	40.4	27.9	27.8	52.61030	5-6
7	0.884	17.967	549.76845	-108.5	-3.5	-91.1	76.1	11.11511	0.873	-86.4	68.4	40.5	29.4	27.5	44.58222	6-7

FEB. 20, 1965 9 HR 53 MIN 21 SEC 304 MS TAB NO 30 POD SEQUENCE NO 1351

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				255.452	464.45580	-0.976	11.982	2199.946	2.417	-49.844	73.911					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT		
2	0.304	19.163	526.78407	-102.0	-3.4	-92.1	78.0	10.66989	0.848	-89.2	69.6	38.1	32.0	31.4	0.	1-2
3	1.003	18.406	517.88476	-108.4	-3.6	-91.1	76.0	10.47043	0.869	-86.4	68.9	40.5	29.8	28.0	31.18348	2-3
4	1.035	20.073	544.43892	-105.5	-4.1	-90.9	76.7	11.00851	0.812	-86.0	70.5	35.9	35.9	34.3	50.49791	3-4
5	-0.420	19.961	538.50661	-96.5	-3.2	-93.3	79.9	10.88731	0.824	-92.2	70.4	35.8	34.6	34.6	44.19849	4-5
6	-0.381	18.318	512.60849	-97.7	-2.9	-93.2	79.2	10.36493	0.881	-92.0	68.7	40.4	28.4	28.3	49.76872	5-6
7	1.003	18.406	517.88476	-108.4	-3.6	-91.1	76.0	10.47043	0.869	-86.4	68.9	40.5	29.8	28.0	42.00977	6-7

FEB. 20, 1965 9 HR 53 MIN 38 SEC 104 MS TAB NO 31 POD SEQUENCE NO 1371

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				238.651	433.42438	-0.785	12.646	2168.924	2.430	-49.411	73.902					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT		
2	0.465	19.555	494.27695	-102.2	-3.5	-92.2	77.8	10.01147	0.844	-89.2	70.0	38.1	32.4	31.8	0.	1-2
3	1.120	18.844	485.80283	-108.4	-3.6	-91.1	75.9	9.82175	0.865	-86.4	69.3	40.5	30.3	28.4	29.29134	2-3
4	1.152	20.415	511.11164	-105.6	-4.2	-90.8	76.6	10.33462	0.808	-86.0	70.9	35.9	36.2	34.6	47.59420	3-4
5	-0.214	20.306	505.37288	-96.8	-3.4	-93.4	79.7	10.21736	0.820	-92.3	70.7	35.8	35.0	34.9	41.50908	4-5
6	-0.178	18.759	480.70263	-98.1	-3.0	-93.3	79.0	9.71978	0.877	-92.0	69.2	40.4	28.9	28.7	46.88476	5-6
7	1.120	18.844	485.80283	-108.4	-3.6	-91.1	75.9	9.82175	0.865	-86.4	69.3	40.5	30.3	28.4	39.42037	6-7

FEB. 20, 1965 9 HR 53 MIN 54 SEC 904 MS TAB NO 32 POD SEQUENCE NO 1391

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				221.851	402.43646	-0.587	13.330	2137.936	2.444	-48.967	73.896					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT		
2	0.628	19.947	461.56358	-102.4	-3.6	-92.2	77.6	9.34887	0.840	-89.2	70.4	38.1	32.9	32.2	0.	1-2
3	1.239	19.281	453.53563	-108.4	-3.7	-91.1	75.8	9.16932	0.861	-86.4	69.8	40.5	30.7	28.9	27.38291	2-3
4	1.270	20.755	477.54246	-105.7	-4.3	-90.8	76.5	9.65584	0.804	-86.0	71.2	35.9	36.6	35.0	44.64813	3-4
5	-0.006	20.650	472.01370	-97.1	-3.5	-93.4	79.4	9.54286	0.817	-92.3	71.1	35.8	35.4	35.3	38.79942	4-5
6	0.027	19.199	448.62581	-98.4	-3.1	-93.4	78.7	9.07117	0.873	-92.0	69.6	40.4	29.3	29.2	43.96074	5-6
7	1.239	19.281	453.53563	-108.4	-3.7	-91.1	75.8	9.16932	0.861	-86.4	69.8	40.5	30.7	28.9	36.81535	6-7

RA-VIII CAMERA P4

9

FEB. 20, 1965 9 HR 54 MIN 11 SEC 704 MS TAB NO 33 POD SEQUENCE NO 1411

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				205.051	371.48801	-0.384	14.035	2106.988	2.457	-48.511	73.891					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD PHAZ	EMIS ALPHA	SCALE	PT-PT		
2	0.790	20.332	428.56533	-102.6	-3.7	-92.2	77.4	8.68049	0.836	-89.2	70.8	38.1	33.3	32.5	0.	1-2
3	1.357	19.712	421.00860	-108.4	-3.8	-91.0	75.8	8.51165	0.857	-86.4	70.2	40.5	31.2	29.3	25.45268	2-3
4	1.387	21.087	443.63698	-105.8	-4.4	-90.8	76.4	8.97026	0.800	-86.0	71.6	35.9	36.9	35.3	41.64282	3-4
5	0.201	20.986	438.34572	-97.4	-3.6	-93.5	79.1	8.86212	0.813	-92.3	71.4	35.8	35.7	35.6	36.06055	4-5
6	0.231	19.634	416.31274	-98.7	-3.2	-93.4	78.5	8.41779	0.869	-92.0	70.1	40.4	29.8	29.6	40.98153	5-6
7	1.357	19.712	421.00860	-108.4	-3.8	-91.0	75.8	8.51165	0.857	-86.4	70.2	40.5	31.2	29.3	34.18804	6-7

TAB NO 34														POD SEQUENCE NO 1431			
FEB. 20,1965 9 HR 54 MIN 28 SEC 505 MS																	
TRAJECTORY DATA																	
SEC TO IMPACT 188.251																	
PHOTO DATA																	
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	0.951	20.716	395.33331	-102.8	-3.8	-92.2	77.2	8.00739	0.832	-89.2	71.2	38.1	33.7	32.9	0.	1- 2	
3	1.474	20.143	388.26550	-108.4	-3.9	-91.0	75.7	7.84962	0.853	-86.4	70.6	40.5	31.6	29.7	23.50532	2- 3	
4	1.503	21.417	409.45639	-105.8	-4.4	-90.8	76.3	8.27912	0.797	-86.0	71.9	35.9	37.3	35.6	38.59076	3- 4	
5	0.408	21.321	404.42854	-97.8	-3.8	-93.6	78.8	8.17636	0.810	-92.3	71.8	35.8	36.1	35.9	33.29780	4- 5	
6	0.435	20.068	383.80626	-99.1	-3.3	-93.5	78.2	7.76050	0.865	-92.1	70.5	40.4	30.2	30.1	37.95914	5- 6	
7	1.474	20.143	388.26550	-108.4	-3.9	-91.0	75.7	7.84962	0.853	-86.4	70.6	40.5	31.6	29.7	31.54180	6- 7	
TAB NO 35														POD SEQUENCE NO 1451			
FEB. 20,1965 9 HR 54 MIN 45 SEC 305 MS																	
TRAJECTORY DATA																	
SEC TO IMPACT 171.451																	
PHOTO DATA																	
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	1.111	21.096	361.81173	-102.9	-4.0	-92.3	77.1	7.32841	0.828	-89.2	71.6	38.1	34.1	33.3	0.	1- 2	
3	1.589	20.569	355.25578	-108.4	-4.0	-91.0	75.6	7.18221	0.849	-86.4	71.1	40.5	32.1	30.2	21.53624	2- 3	
4	1.617	21.741	374.93656	-105.9	-4.5	-90.8	76.1	7.58113	0.793	-86.1	72.2	35.9	37.6	36.0	35.48018	3- 4	
5	0.614	21.650	370.20065	-98.1	-3.9	-93.7	78.5	7.48432	0.806	-92.3	72.1	35.8	36.4	36.3	30.50541	4- 5	
6	0.639	20.499	351.05778	-99.4	-3.4	-93.6	78.0	7.09833	0.861	-92.1	71.0	40.4	30.7	30.5	34.88238	5- 6	
7	1.589	20.569	355.25578	-108.4	-4.0	-91.0	75.6	7.18221	0.849	-86.4	71.1	40.5	32.1	30.2	28.87226	6- 7	
TAB NO 36														POD SEQUENCE NO 1461			
FEB. 20,1965 9 HR 54 MIN 53 SEC 705 MS																	
TRAJECTORY DATA																	
SEC TO IMPACT 163.051																	
PHOTO DATA																	
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	1.191	21.284	344.94339	-103.0	-4.0	-92.3	77.0	6.98675	0.826	-89.2	71.8	38.1	34.3	33.5	0.	1- 2	
3	1.647	20.781	338.65224	-108.4	-4.0	-91.0	75.6	6.84651	0.847	-86.4	71.3	40.5	32.3	30.4	20.54352	2- 3	
4	1.673	21.901	357.55170	-105.9	-4.6	-90.8	76.1	7.22961	0.791	-86.1	72.4	35.9	37.8	36.1	33.90345	3- 4	
5	0.717	21.813	352.97100	-98.2	-4.0	-93.7	78.4	7.13597	0.804	-92.3	72.3	35.8	36.6	36.4	29.09839	4- 5	
6	0.741	20.713	334.59288	-99.6	-3.5	-93.6	77.8	6.76540	0.859	-92.1	71.2	40.4	30.9	30.7	33.32392	5- 6	
7	1.647	20.781	338.65224	-108.4	-4.0	-91.0	75.6	6.84651	0.847	-86.4	71.3	40.5	32.3	30.4	27.52894	6- 7	
RA-VIII CAMERA P4														10			
TAB NO 37														POD SEQUENCE NO 1471			
FEB. 20,1965 9 HR 55 MIN 2 SEC 105 MS																	
TRAJECTORY DATA																	
SEC TO IMPACT 154.650																	
PHOTO DATA																	
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	1.272	21.471	328.00982	-103.1	-4.1	-92.3	76.9	6.64377	0.824	-89.2	72.0	38.1	34.5	33.7	0.	1- 2	
3	1.705	20.993	321.99040	-108.4	-4.1	-91.0	75.5	6.50964	0.845	-86.4	71.5	40.5	32.5	30.6	19.54539	2- 3	
4	1.731	22.060	340.09266	-106.0	-4.6	-90.8	76.0	6.87659	0.789	-86.1	72.6	35.9	38.0	36.3	32.31381	3- 4	
5	0.821	21.974	335.66965	-98.4	-4.0	-93.7	78.2	6.78616	0.802	-92.3	72.5	35.8	36.8	36.6	27.68532	4- 5	
6	0.843	20.926	318.07174	-99.7	-3.6	-93.6	77.7	6.43134	0.857	-92.1	71.4	40.4	31.1	30.9	31.75296	5- 6	
7	1.705	20.993	321.99040	-108.4	-4.1	-91.0	75.5	6.50964	0.845	-86.4	71.5	40.5	32.5	30.6	26.18088	6- 7	
TAB NO 38														POD SEQUENCE NO 1481			
FEB. 20,1965 9 HR 55 MIN 10 SEC 505 MS																	
TRAJECTORY DATA																	
SEC TO IMPACT 146.250																	
PHOTO DATA																	
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	1.352	21.657	310.99941	-103.2	-4.1	-92.3	76.8	6.29922	0.822	-89.2	72.2	38.1	34.7	33.9	0.	1- 2	
3	1.763	21.203	305.25701	-108.4	-4.1	-90.9	75.5	6.17132	0.842	-86.4	71.7	40.5	32.7	30.8	18.54166	2- 3	
4	1.787	22.217	322.54409	-106.0	-4.7	-90.8	76.0	6.52175	0.788	-86.1	72.7	35.9	38.2	36.4	30.70906	3- 4	
5	0.924	22.135	318.28674	-98.6	-4.1	-93.8	78.1	6.43471	0.801	-92.3	72.6	35.8	36.9	36.8	26.26430	4- 5	
6	0.946	21.139	301.48599	-99.9	-3.6	-93.7	77.6	6.09598	0.855	-92.1	71.6	40.4	31.4	31.1	30.16805	5- 6	
7	1.763	21.203	305.25701	-108.4	-4.1	-90.9	75.5	6.17132	0.842	-86.4	71.7	40.5	32.7	30.8	24.82646	6- 7	
TAB NO 39														POD SEQUENCE NO 1491			
FEB. 20,1965 9 HR 55 MIN 18 SEC 905 MS																	
TRAJECTORY DATA																	
SEC TO IMPACT 137.850																	
PHOTO DATA																	
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	1.431	21.842	293.90979	-103.3	-4.2	-92.3	76.7	5.95308	0.820	-89.2	72.3	38.1	34.9	34.1	0.	1- 2	
3	1.820	21.412	288.44977	-108.4	-4.2	-90.9	75.4	5.83151	0.840	-86.4	71.9	40.5	33.0	31.0	17.53216	2- 3	
4	1.843	22.373	304.90349	-106.1	-4.7	-90.8	75.9	6.16506	0.786	-86.1	72.9	35.9	38.3	36.6	29.08890	3- 4	
5	1.027	22.294	300.81985	-98.7	-4.2	-93.8	77.9	6.08157	0.799	-92.3	72.8	35.8	37.1	36.9	24.83511	4- 5	
6	1.047	21.351	284.83341	-100.1	-3.7	-93.7	77.4	5.75926	0.853	-92.1	71.8	40.4	31.6	31.4	28.56886	5- 6	
7	1.820	21.412	288.44977	-108.4	-4.2	-90.9	75.4	5.83151	0.840	-86.4	71.9	40.5	33.0	31.0	23.46549	6- 7	
TAB NO 40														POD SEQUENCE NO 1501			
FEB. 20,1965 9 HR 55 MIN 27 SEC 305 MS																	
TRAJECTORY DATA																	
SEC TO IMPACT 129.450																	
PHOTO DATA																	
PT	LAT	LONG	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT	
2	1.511	22.026	276.73872	-103.4	-4.3	-92.3	76.6	5.60528	0.818	-89.2	72.5	38.1	35.1	34.3	0.	1- 2	
3	1.876	21.621	271.56662	-108.4	-4.2	-90.9	75.4	5.49017	0.838	-86.5	72.1	40.5	33.2	31.2	16.51672	2- 3	
4	1.899	22.527	287.16847	-106.1	-4.8	-90.8	75.8	5.80646	0.784	-86.1	73.0	35.9	38.5	36.8	27.45291	3- 4	
5	1.130	22.452	283.26659	-98.9	-4.3	-93.8	77.8	5.72668	0.797	-92.3	72.9	35.8	37.3	37.1	23.39752	4- 5	
6	1.149	21.562	268.11189	-100.2	-3.8	-93.7	77.3	5.42116	0.851	-92.1	72.1	40.4	31.8	31.6	26.95501	5- 6	
7	1.876	21.621	271.56662	-108.4	-4.2	-90.9	75.4	5.49017	0.838	-86.5	72.1	40.5	33.2	31.2	22.09777	6- 7	

RA-VIII CAMERA P4

11

FEB. 20, 1965 9 HR 55 MIN 35 SEC 705 MS TAB NO 41 ATLAS PHOTO NO 4 POD SEQUENCE NO 1511

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				121.050	217.57727	0.729	17.891	1953.077	2.531	-46.033	73.911					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.589	22.208	259.48381	-103.5	-4.3	-92.3	76.5	5.25579	0.816	-89.2	72.7	38.1	35.3	34.4	0.0	1-2
3	1.932	21.828	254.60520	-108.4	-4.3	-90.9	75.3	5.14725	0.836	-86.5	72.3	40.5	33.4	31.5	15.49520	2-3
4	1.954	22.680	269.33652	-106.2	-4.8	-90.8	75.8	5.44590	0.782	-86.1	73.2	35.9	38.7	36.9	25.80080	3-4
5	1.233	22.608	265.62460	-99.1	-4.4	-93.9	77.6	5.37000	0.795	-92.3	73.1	35.8	37.4	37.3	21.95130	4-5
6	1.250	21.772	251.31923	-100.4	-3.9	-93.7	77.2	5.08161	0.849	-92.1	72.3	40.4	32.0	31.8	25.32623	5-6
7	1.932	21.828	254.60520	-108.4	-4.3	-90.9	75.3	5.14725	0.836	-86.5	72.3	40.5	33.4	31.5	20.72309	6-7

FEB. 20, 1965 9 HR 55 MIN 44 SEC 105 MS TAB NO 42 POD SEQUENCE NO 1521

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				112.650	202.28609	0.850	18.310	1937.786	2.539	-45.765	73.917					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.667	22.389	242.13983	-103.6	-4.4	-92.3	76.4	4.90449	0.814	-89.2	72.9	38.1	35.5	34.6	0.0	1-2
3	1.987	22.034	237.55829	-108.4	-4.3	-90.9	75.3	4.80260	0.834	-86.5	72.6	40.5	33.6	31.7	14.46786	2-3
4	2.007	22.881	251.42312	-106.2	-4.9	-90.8	75.7	5.08323	0.780	-86.1	73.4	35.9	38.8	37.1	24.13182	3-4
5	1.334	22.762	247.89077	-99.2	-4.4	-93.9	77.5	5.01147	0.772	-92.3	73.3	35.8	37.6	37.4	20.49520	4-5
6	1.351	21.980	234.45214	-100.6	-3.9	-93.8	77.1	4.74056	0.847	-92.1	72.5	40.4	32.3	32.0	22.02289	5-6
7	1.987	22.034	237.55829	-108.4	-4.3	-90.9	75.3	4.80260	0.834	-86.5	72.6	40.5	33.6	31.7	19.34037	6-7

FEB. 20, 1965 9 HR 55 MIN 52 SEC 506 MS TAB NO 43 POD SEQUENCE NO 1531

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				104.250	187.01776	0.973	18.736	1922.518	2.547	-45.494	73.925					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.745	22.568	224.70750	-103.7	-4.4	-92.3	76.3	4.55140	0.812	-89.2	73.1	38.1	35.7	34.8	0.0	1-2
3	2.041	22.238	220.42865	-108.4	-4.3	-90.9	75.3	4.45628	0.832	-86.5	72.8	40.5	33.8	31.9	13.43415	2-3
4	2.060	22.980	233.36201	-106.2	-4.9	-90.7	75.7	4.71850	0.779	-86.1	73.5	35.9	39.0	37.2	22.44613	3-4
5	1.436	22.915	230.06361	-99.4	-4.5	-93.9	77.4	4.65105	0.792	-92.3	73.4	35.8	37.8	37.6	19.03008	4-5
6	1.451	22.188	217.50966	-100.7	-4.0	-93.8	77.0	4.39798	0.845	-92.1	72.7	40.4	32.5	32.2	22.02289	5-6
7	2.041	22.238	220.42865	-108.4	-4.3	-90.9	75.3	4.45628	0.832	-86.5	72.8	40.5	33.8	31.9	17.95025	6-7

FEB. 20, 1965 9 HR 56 MIN 0 SEC 906 MS TAB NO 44 POD SEQUENCE NO 1541

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				95.850	171.77335	1.098	19.169	1907.273	2.555	-45.218	73.933					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.821	22.746	207.18424	-103.8	-4.5	-92.3	76.2	4.19647	0.810	-89.2	73.3	38.1	35.9	35.0	0.0	1-2
3	2.095	22.442	203.21437	-108.4	-4.4	-90.8	75.2	4.10826	0.830	-86.5	73.0	40.5	34.0	32.1	12.39373	2-3
4	2.113	23.127	215.21978	-106.3	-5.0	-90.7	75.6	4.35167	0.777	-86.1	73.7	35.9	39.1	37.4	20.74323	3-4
5	1.536	23.067	212.13990	-99.5	-4.6	-94.0	77.3	4.28868	0.790	-92.3	73.6	35.8	37.9	37.7	17.55570	4-5
6	1.550	22.395	200.48910	-100.8	-4.0	-93.8	76.9	4.05383	0.843	-92.1	72.9	40.4	32.7	32.4	20.34736	5-6
7	2.095	22.442	203.21437	-108.4	-4.4	-90.8	75.2	4.10826	0.830	-86.5	73.0	40.5	34.0	32.1	16.55265	6-7

RA-VIII CAMERA P4

12

FEB. 20, 1965 9 HR 56 MIN 9 SEC 306 MS TAB NO 45 POD SEQUENCE NO 1551

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				87.450	156.55444	1.224	19.609	1892.054	2.563	-44.938	73.943					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.898	22.923	189.56722	-103.8	-4.5	-92.3	76.2	3.83964	0.808	-89.2	73.4	38.1	36.1	35.2	0.0	1-2
3	2.148	22.644	185.91196	-108.4	-4.4	-90.8	75.2	3.75845	0.828	-86.5	73.2	40.5	34.3	32.3	11.34662	2-3
4	2.164	23.272	196.96992	-106.3	-5.0	-90.7	75.6	3.98266	0.775	-86.1	73.8	35.9	39.3	37.5	19.02280	3-4
5	1.637	23.216	194.11757	-99.7	-4.6	-94.0	77.1	3.92432	0.788	-92.3	73.7	35.8	38.1	37.9	16.07161	4-5
6	1.649	22.600	183.38828	-101.0	-4.1	-93.8	76.7	3.70805	0.841	-92.1	73.1	40.4	32.9	32.6	18.65559	5-6
7	2.148	22.644	185.91196	-108.4	-4.4	-90.8	75.2	3.75845	0.828	-86.5	73.2	40.5	34.3	32.3	15.14711	6-7

FEB. 20, 1965 9 HR 56 MIN 13 SEC 506 MS TAB NO 46 POD SEQUENCE NO 1556

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				83.250	148.95494	1.289	19.832	1884.455	2.567	-44.797	73.948					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.935	23.011	180.72193	-103.9	-4.6	-92.4	76.1	3.66048	0.808	-89.2	73.5	38.1	36.1	35.3	0.0	1-2
3	2.174	22.744	177.22582	-108.4	-4.4	-90.8	75.2	3.58284	0.827	-86.5	73.3	40.5	34.4	32.4	10.82054	2-3
4	2.190	23.344	187.80261	-106.3	-5.0	-90.7	75.6	3.79730	0.774	-86.1	73.9	35.9	39.4	37.6	18.15578	3-4
5	1.687	23.290	185.06806	-99.7	-4.7	-94.0	77.1	3.74137	0.787	-92.3	73.8	35.8	38.2	37.9	15.32567	4-5
6	1.699	22.702	174.80648	-101.0	-4.1	-93.8	76.7	3.53453	0.840	-92.1	73.2	40.4	33.0	32.7	17.80348	5-6
7	2.174	22.744	177.22582	-108.4	-4.4	-90.8	75.2	3.58284	0.827	-86.5	73.3	40.5	34.4	32.4	14.44113	6-7

FEB. 20, 1965 9 HR 56 MIN 17 SEC 706 MS TAB NO 47 POD SEQUENCE NO 1561

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				79.050	141.36220	1.353	20.056	1876.862	2.571	-44.654	73.954					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	1.973	23.098	171.85258	-103.9	-4.6	-92.4	76.1	3.48083	0.807	-89.3	73.6	38.1	36.2	35.3	0.0	1-2
3	2.200	22.844	168.51725	-108.4	-4.5	-90.8	75.2	3.40678	0.826	-86.5	73.4	40.5	34.5	32.5	10.29270	2-3
4	2.215	23.415	178.60796	-106.3	-5.1	-90.7	75.5	3.61139	0.774	-86.1	73.9	35.9	39.4	37.7	17.28433	3-4
5	1.737	23.364	175.99310	-99.8	-4.7	-94.0	77.0	3.55790	0.787	-92.3	73.9	35.8	38.3	38.0	14.57731	4-5
6	1.748	22.804	166.20389	-101.1	-4.2	-93.9	76.7	3.36059	0.839	-92.1	73.3	40.4	33.1	32.8	16.94719	5-6
7	2.200	22.844	168.51725	-108.4	-4.5	-90.8	75.2	3.40678	0.826	-86.5	73.4	40.5	34.5	32.5	13.73316	6-7

FEB. 20, 1965 9 HR 56 MIN 21 SEC 906 MS TAB NO 48 POD SEQUENCE NO 1566

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				74.850		133.77660	1.418	20.283	1869.277	2.575	-44.511	73.960				
PHOTO DATA						A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA									
2	2.011	23.184	162.95905	-103.9	-4.6	-92.4	76.1	3.30070	0.806	-89.3	73.7	38.1	36.3	35.4	0.	1- 2
3	2.225	22.944	159.78613	-108.4	-4.5	-90.8	75.2	3.23027	0.825	-86.5	73.5	40.5	34.6	32.6	9.76307	2- 3
4	2.240	23.486	169.38583	-106.3	-5.1	-90.7	75.5	3.42492	0.773	-86.1	74.0	35.9	39.5	37.7	16.40840	3- 4
5	1.786	23.437	166.89249	-99.9	-4.7	-94.0	77.0	3.37392	0.786	-92.3	74.0	35.8	38.3	38.1	13.82652	4- 5
6	1.797	22.906	157.58034	-101.2	-4.2	-93.9	76.6	3.18622	0.838	-92.1	73.4	40.4	33.3	32.9	16.08670	5- 6
7	2.225	22.944	159.78613	-108.4	-4.5	-90.8	75.2	3.23027	0.825	-86.5	73.5	40.5	34.6	32.6	13.02321	6- 7

RA-VIII CAMERA P4

13

FEB. 20, 1965 9 HR 56 MIN 25 SEC 106 MS TAB NO 49 POD SEQUENCE NO 1571

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				70.649		126.19818	1.484	20.511	1861.698	2.579	-44.366	73.966				
PHOTO DATA						A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA									
2	2.048	23.271	154.04231	-104.0	-4.7	-92.4	76.0	3.12009	0.805	-89.3	73.8	38.1	36.4	35.5	0.	1- 2
3	2.251	23.043	151.03396	-108.4	-4.5	-90.8	75.2	3.05333	0.824	-86.5	73.6	40.5	34.7	32.7	9.23156	2- 3
4	2.266	23.556	160.13789	-106.3	-5.1	-90.7	75.5	3.23793	0.772	-86.1	74.1	35.9	39.6	37.8	15.52819	3- 4
5	1.836	23.510	157.76663	-99.9	-4.8	-94.1	76.9	3.18943	0.785	-92.3	74.0	35.8	38.4	38.2	13.07361	4- 5
6	1.847	23.007	148.93624	-101.2	-4.2	-93.9	76.6	3.01144	0.837	-92.1	73.5	40.4	33.4	33.0	15.22203	5- 6
7	2.251	23.043	151.03396	-108.4	-4.5	-90.8	75.2	3.05333	0.824	-86.5	73.6	40.5	34.7	32.7	12.31152	6- 7

FEB. 20, 1965 9 HR 56 MIN 26 SEC 946 MS TAB NO 50 ATLAS PHOTO NO 5 POD SEQUENCE NO 1572

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				69.809		124.68335	1.497	20.557	1860.183	2.580	-44.337	73.967				
PHOTO DATA						A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA									
2	2.056	23.288	152.25594	-104.0	-4.7	-92.4	76.0	3.08391	0.804	-89.3	73.8	38.1	36.4	35.5	0.	1- 2
3	2.257	23.063	149.28069	-108.4	-4.5	-90.8	75.2	3.01788	0.824	-86.5	73.6	40.5	34.7	32.7	9.12503	2- 3
4	2.271	23.570	158.28485	-106.3	-5.1	-90.7	75.5	3.20046	0.772	-86.1	74.1	35.9	39.6	37.8	15.35158	3- 4
5	1.846	23.524	155.93827	-99.9	-4.8	-94.1	76.9	3.15246	0.785	-92.3	74.0	35.8	38.4	38.2	12.92272	4- 5
6	1.857	23.027	147.20481	-101.2	-4.2	-93.9	76.5	2.97643	0.836	-92.1	73.5	40.4	33.4	33.0	15.04857	5- 6
7	2.257	23.063	149.28069	-108.4	-4.5	-90.8	75.2	3.01788	0.824	-86.5	73.6	40.5	34.7	32.7	12.16894	6- 7

FEB. 20, 1965 9 HR 56 MIN 30 SEC 306 MS TAB NO 51 POD SEQUENCE NO 1576

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				66.449		118.62726	1.550	20.741	1854.127	2.583	-44.220	73.972				
PHOTO DATA						A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA									
2	2.086	23.357	145.10057	-104.0	-4.7	-92.4	76.0	2.93898	0.804	-89.3	73.9	38.1	36.5	35.6	0.	1- 2
3	2.277	23.142	142.25836	-109.4	-4.5	-90.8	75.1	2.75791	0.823	-86.5	73.7	40.5	34.8	32.8	8.69823	2- 3
4	2.291	23.626	150.86153	-106.4	-5.1	-90.7	75.5	3.05036	0.771	-86.1	74.2	35.9	39.7	37.9	14.64339	3- 4
5	1.886	23.582	148.61440	-100.0	-4.8	-94.1	76.8	3.00440	0.784	-92.3	74.1	35.8	38.5	38.2	12.31816	4- 5
6	1.896	23.108	140.27051	-101.3	-4.3	-93.9	76.5	2.83622	0.836	-92.1	73.6	40.4	33.5	33.1	14.35306	5- 6
7	2.277	23.142	142.25836	-108.4	-4.5	-90.8	75.1	2.87591	0.823	-86.5	73.7	40.5	34.8	32.8	11.59774	6- 7

FEB. 20, 1965 9 HR 56 MIN 34 SEC 506 MS TAB NO 52 POD SEQUENCE NO 1581

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				62.249		111.06383	1.616	20.973	1846.564	2.588	-44.073	73.979				
PHOTO DATA						A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA									
2	2.124	23.442	136.13316	-104.0	-4.7	-92.4	76.0	2.75735	0.803	-89.3	74.0	38.1	36.6	35.7	0.	1- 2
3	2.303	23.241	133.45864	-108.4	-4.5	-90.8	75.1	2.69801	0.822	-86.5	73.8	40.5	34.9	32.9	8.16306	2- 3
4	2.316	23.695	141.55602	-106.4	-5.1	-90.7	75.5	2.86221	0.770	-86.1	74.2	35.9	39.7	38.0	13.75394	3- 4
5	1.936	23.653	139.43514	-100.1	-4.9	-94.1	76.8	2.81882	0.783	-92.3	74.2	35.8	38.6	38.3	11.56011	4- 5
6	1.945	23.208	131.58250	-101.4	-4.3	-93.9	76.5	2.66055	0.835	-92.1	73.7	40.4	33.6	33.2	13.47975	5- 6
7	2.303	23.241	133.45864	-108.4	-4.5	-90.8	75.1	2.69801	0.822	-86.5	73.8	40.5	34.9	32.9	10.88182	6- 7

RA-VIII CAMERA P4

14

FEB. 20, 1965 9 HR 56 MIN 38 SEC 706 MS TAB NO 53 POD SEQUENCE NO 1586

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				58.049		103.50842	1.684	21.207	1839.008	2.592	-43.925	73.986				
PHOTO DATA						A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA									
2	2.161	23.527	127.14057	-104.1	-4.7	-92.4	75.9	2.57520	0.802	-89.3	74.1	38.1	36.7	35.8	0.	1- 2
3	2.329	23.339	124.63486	-108.4	-4.6	-90.7	75.1	2.51962	0.821	-86.5	73.9	40.5	35.0	33.0	7.62618	2- 3
4	2.341	23.764	132.22165	-106.4	-5.2	-90.7	75.4	2.67347	0.769	-86.1	74.3	35.9	39.8	38.0	12.85997	3- 4
5	1.986	23.725	130.22987	-100.1	-4.9	-94.1	76.7	2.63273	0.782	-92.3	74.3	35.8	38.6	38.4	10.79937	4- 5
6	1.994	23.308	122.87293	-101.4	-4.3	-93.9	76.4	2.48444	0.833	-92.1	73.8	40.4	33.7	33.3	12.60232	5- 6
7	2.329	23.339	124.63486	-108.4	-4.6	-90.7	75.1	2.51962	0.821	-86.5	73.9	40.5	35.0	33.0	10.16366	6- 7

FEB. 20, 1965 9 HR 56 MIN 42 SEC 906 MS TAB NO 54 POD SEQUENCE NO 1591

TRAJECTORY DATA				SEC TO IMPACT		ALT	LAT	LON	R	V	PTH	AZ				
				53.849		95.96083	1.751	21.443	1831.461	2.596	-43.776	73.994				
PHOTO DATA						A*	B/A	AZPHAZ	INCD PHAZ	EMIS	ALPHA	SCALE	PT-PT			
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA									
2	2.198	23.612	118.12187	-104.1	-4.8	-92.4	75.9	2.39253	0.801	-89.3	74.1	38.1	36.8	35.9	0.	1- 2
3	2.354	23.437	115.78606	-108.4	-4.6	-90.7	75.1	2.34073	0.820	-86.5	74.0	40.5	35.1	33.1	7.08759	2- 3
4	2.365	23.832	122.85747	-106.4	-5.2	-90.7	75.4	2.48413	0.769	-86.1	74.4	35.9	39.9	38.1	11.96142	3- 4
5	2.036	23.795	120.99764	-100.2	-4.9	-94.1	76.7	2.44608	0.781	-92.3	74.3	35.8	38.7	38.5	10.03585	4- 5
6	2.043	23.408	114.14090	-101.5	-4.4	-93.9	76.4	2.30788	0.832	-92.1	73.9	40.4	33.8	33.4	11.72068	5- 6
7	2.354	23.437	115.78606	-108.4	-4.6	-90.7	75.1	2.34073	0.820	-86.5	74.0	40.5	35.1	33.1	9.44317	6- 7

FEB. 20, 1965 9 HR 56 MIN 47 SEC 106 MS TAB NO 55 POD SEQUENCE NO 1596

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA				49.649		88.42163		1.819		21.680		1823.922		2.600		-43.626		74.001	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	2.235	23.696	109.07666	-104.1	-4.8	-92.4	75.9	2.20932	0.800	-89.3	74.2	38.1	36.9	36.0	0.	1-2			
3	2.379	23.535	106.91254	-108.3	-4.6	-90.7	75.1	2.16134	0.819	-86.5	74.1	40.5	35.2	33.2	6.54703	2-3			
4	2.389	23.900	113.46338	-106.4	-5.2	-90.7	75.4	2.29418	0.768	-86.1	74.4	35.9	40.0	38.2	11.05803	3-4			
5	2.085	23.866	111.73734	-100.2	-4.9	-94.1	76.6	2.25887	0.781	-92.4	74.4	35.8	38.8	38.5	9.26970	4-5			
6	2.092	23.508	105.38573	-101.5	-4.4	-93.9	76.3	2.13086	0.831	-92.1	74.0	40.4	33.9	33.5	10.83448	5-6			
7	2.379	23.535	106.91254	-108.3	-4.6	-90.7	75.1	2.16134	0.819	-86.5	74.1	40.5	35.2	33.2	8.72051	6-7			

FEB. 20, 1965 9 HR 56 MIN 51 SEC 306 MS TAB NO 56 POD SEQUENCE NO 1601

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA				45.449		80.89075		1.888		21.920		1816.391		2.605		-43.475		74.010	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	2.272	23.780	100.00432	-104.1	-4.8	-92.4	75.9	2.02556	0.799	-89.3	74.3	38.1	37.0	36.0	0.	1-2			
3	2.404	23.632	98.01362	-108.3	-4.6	-90.7	75.1	1.98144	0.818	-86.5	74.2	40.5	35.3	33.3	6.00448	2-3			
4	2.414	23.967	104.03872	-106.4	-5.2	-90.7	75.4	2.10362	0.767	-86.1	74.5	35.9	40.0	38.2	10.14981	3-4			
5	2.135	23.935	102.44835	-100.3	-5.0	-94.1	76.6	2.07108	0.780	-92.4	74.5	35.8	38.9	38.6	8.50086	4-5			
6	2.141	23.607	96.60682	-101.6	-4.4	-93.9	76.3	1.95335	0.830	-92.1	74.1	40.4	34.0	33.6	9.94371	5-6			
7	2.414	23.967	104.03872	-106.4	-5.2	-90.7	75.4	1.98144	0.818	-86.5	74.2	40.5	35.3	33.3	7.99561	6-7			

RA-VIII CAMERA P4

15

FEB. 20, 1965 9 HR 56 MIN 55 SEC 506 MS TAB NO 57 POD SEQUENCE NO 1606

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA				41.249		73.36867		1.957		22.162		1808.869		2.609		-43.322		74.018	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	2.309	23.863	90.90475	-104.2	-4.8	-92.4	75.8	1.84125	0.798	-89.3	74.3	38.1	37.1	36.1	0.	1-2			
3	2.429	23.728	89.08963	-108.3	-4.6	-90.7	75.1	1.80103	0.817	-86.5	74.3	40.5	35.4	33.4	5.54581	2-3			
4	2.438	24.033	94.58367	-106.4	-5.2	-90.7	75.4	1.91244	0.766	-86.1	74.6	35.9	40.1	38.3	9.23664	3-4			
5	2.184	24.004	93.13014	-100.4	-5.0	-94.1	76.5	1.88271	0.779	-92.4	74.5	35.8	39.0	38.7	7.72943	4-5			
6	2.190	23.706	87.80388	-101.6	-4.4	-93.9	76.2	1.77536	0.829	-92.1	74.2	40.4	34.1	33.7	9.04817	5-6			
7	2.429	23.728	89.08963	-108.3	-4.6	-90.7	75.1	1.80103	0.817	-86.5	74.3	40.5	35.4	33.4	7.26859	6-7			

FEB. 20, 1965 9 HR 56 MIN 59 SEC 706 MS TAB NO 58 POD SEQUENCE NO 1611

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA				37.049		65.85518		2.027		22.406		1801.355		2.613		-43.168		74.027	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	2.346	23.746	81.77704	-104.2	-4.9	-92.4	75.8	1.65638	0.797	-89.3	74.5	38.1	37.2	36.2	0.	1-2			
3	2.454	23.824	80.13924	-108.3	-4.6	-90.7	75.1	1.62009	0.816	-86.5	74.4	40.5	35.5	33.5	4.91311	2-3			
4	2.462	24.099	85.09700	-106.4	-5.2	-90.7	75.4	1.72062	0.765	-86.1	74.6	35.9	40.2	38.4	8.31851	3-4			
5	2.234	24.073	83.78226	-100.4	-5.0	-94.1	76.5	1.69373	0.778	-92.4	74.6	35.8	39.0	38.8	6.95522	4-5			
6	2.239	23.804	78.97624	-101.7	-4.5	-93.9	76.2	1.59687	0.828	-92.1	74.3	40.4	34.2	33.8	8.14795	5-6			
7	2.454	23.824	80.13924	-108.3	-4.6	-90.7	75.1	1.62009	0.816	-86.5	74.4	40.5	35.5	33.5	6.53923	6-7			

FEB. 20, 1965 9 HR 57 MIN 3 SEC 906 MS TAB NO 59 POD SEQUENCE NO 1616

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA				32.849		58.35112		2.098		22.652		1793.851		2.618		-43.013		74.036	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	2.383	24.028	72.62159	-104.2	-4.9	-92.4	75.8	1.47093	0.796	-89.3	74.6	38.1	37.2	36.3	0.	1-2			
3	2.479	23.920	71.16280	-108.3	-4.7	-90.7	75.1	1.43862	0.815	-86.5	74.5	40.5	35.6	33.6	4.36440	2-3			
4	2.486	24.164	75.57911	-106.4	-5.3	-90.7	75.4	1.52818	0.765	-86.1	74.7	35.9	40.2	38.4	7.39547	3-4			
5	2.283	24.141	74.40521	-100.5	-5.1	-94.2	76.4	1.50416	0.777	-92.4	74.7	35.8	39.1	38.8	6.17822	4-5			
6	2.288	23.901	70.12439	-101.8	-4.5	-93.9	76.1	1.41789	0.827	-92.1	74.4	40.4	34.3	33.9	7.24310	5-6			
7	2.479	23.920	71.16280	-108.3	-4.7	-90.7	75.1	1.43862	0.815	-86.5	74.5	40.5	35.6	33.6	5.80755	6-7			

FEB. 20, 1965 9 HR 57 MIN 8 SEC 106 MS TAB NO 60 POD SEQUENCE NO 1621

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA				28.649		50.85611		2.168		22.900		1786.356		2.622		-42.857		74.046	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	2.420	24.109	63.43680	-104.3	-4.9	-92.4	75.7	1.28490	0.795	-89.3	74.7	38.1	37.3	36.4	0.	1-2			
3	2.503	24.015	62.15870	-108.3	-4.7	-90.7	75.1	1.25659	0.814	-86.5	74.6	40.5	35.7	33.7	3.81358	2-3			
4	2.510	24.228	66.02819	-106.4	-5.3	-90.6	75.3	1.33506	0.764	-86.1	74.8	35.9	40.3	38.5	6.46726	3-4			
5	2.332	24.208	64.99736	-100.6	-5.1	-94.2	76.4	1.31397	0.776	-92.4	74.8	35.8	39.2	38.9	5.39827	4-5			
6	2.336	23.999	61.24679	-101.8	-4.5	-93.9	76.1	1.23838	0.826	-92.1	74.5	40.4	34.4	34.0	6.33341	5-6			
7	2.503	24.015	62.15870	-108.3	-4.7	-90.7	75.1	1.25659	0.814	-86.5	74.6	40.5	35.7	33.7	5.07341	6-7			

RA-VIII CAMERA P4

16

FEB. 20, 1965 9 HR 57 MIN 12 SEC 306 MS TAB NO 61 POD SEQUENCE NO 1626

TRAJECTORY DATA				SEC TO IMPACT		ALT		LAT		LON		R		V		PTH		AZ	
PHOTO DATA				24.449		43.37090		2.240		23.150		1778.871		2.626		-42.700		74.056	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT			
2	2.456	24.190	54.22263	-104.3	-4.9	-92.4	75.7	1.09827	0.794	-89.3	74.7	38.1	37.4	36.5	0.	1-2			
3	2.528	24.109	53.12692	-108.3	-4.7	-90.6	75.1	1.07400	0.813	-86.5	74.7	40.5	35.8	33.8	3.26065	2-3			
4	2.533	24.292	56.44421	-106.4	-5.3	-90.6	75.3	1.14128	0.763	-86.1	74.8	35.9	40.4	38.6	5.53389	3-4			
5	2.382	24.275	55.55865	-100.6	-5.1	-94.2	76.3	1.12316	0.776	-92.4	74.8	35.8	39.3	39.0	4.61537	4-5			
6	2.385	24.096	52.34351	-101.9	-4.6	-94.0	76.1	1.05836	0.825	-92.1	74.6	40.4	34.5	34.1	5.41886	5-6			
7	2.528	24.109	53.12692	-108.3	-4.7	-90.6	75.1	1.07400	0.813	-86.5	74.7	40.5	35.8	33.8	4.33679	6-7			

FEB. 20, 1965 9 HR 57 MIN 16 SEC 507 MS TAB NO 62 POD SEQUENCE NO 1631

TRAJECTORY DATA				SEC TO IMPACT				ALT		LAT		LON		R		V		PTH		AZ					
				20.249				35.89516		2.312		23.403		1771.395		2.631		-42.541		74.066					
PHOTO DATA								A*		B/A		AZPHAZ		INCD		PHAZ		EMIS		ALPHA		SCALE		PT-PT	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA																		
2	2.493	24.270	44.97921	-104.3	-5.0	-92.4	75.7	0.91104	0.793	-89.3	74.8	38.1	37.5	36.5	0.										
3	2.552	24.203	44.06759	-108.3	-4.7	-90.6	75.1	0.89086	0.812	-86.5	74.8	40.5	35.9	33.9	2.70564	2	3								
4	2.556	24.355	46.82750	-106.4	-5.3	-90.6	75.3	0.94683	0.762	-86.1	74.9	35.9	40.4	38.6	4.59546	3	4								
5	2.431	24.341	46.08922	-100.7	-5.2	-94.2	76.3	0.93173	0.775	-92.4	74.9	35.8	39.3	39.0	3.82957	4	5								
6	2.434	24.192	43.41442	-101.9	-4.6	-94.0	76.0	0.87782	0.824	-92.1	74.7	40.4	34.6	34.2	4.49954	5	6								
7	2.552	24.203	44.06759	-108.3	-4.7	-90.6	75.1	0.89086	0.812	-86.5	74.8	40.5	35.9	33.9	3.59774	6	7								

FEB. 20, 1965 9 HR 57 MIN 20 SEC 707 MS TAB NO 63 POD SEQUENCE NO 1636

TRAJECTORY DATA				SEC TO IMPACT				ALT		LAT		LON		R		V		PTH		AZ					
				16.049				28.42973		2.384		23.657		1763.930		2.635		-42.381		74.077					
PHOTO DATA								A*		B/A		AZPHAZ		INCD		PHAZ		EMIS		ALPHA		SCALE		PT-PT	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA																		
2	2.529	24.350	35.70693	-104.4	-5.0	-92.4	75.6	0.72324	0.792	-89.3	74.9	38.1	37.6	36.6	0.										
3	2.576	24.297	34.98112	-109.3	-4.7	-90.6	75.1	0.70717	0.811	-86.5	74.9	40.5	36.0	34.0	2.14854	2	3								
4	2.580	24.418	37.17851	-106.5	-5.3	-90.6	75.3	0.75173	0.761	-86.1	75.0	35.9	40.5	38.7	3.65205	3	4								
5	2.480	24.406	36.58951	-100.7	-5.2	-94.2	76.2	0.73968	0.774	-92.4	75.0	35.8	39.4	39.1	3.04091	4	5								
6	2.482	24.284	34.46001	-102.0	-4.6	-94.0	76.0	0.69677	0.823	-92.1	74.8	40.4	34.7	34.3	3.57550	5	6								
7	2.576	24.297	34.98112	-109.3	-4.7	-90.6	75.1	0.70717	0.811	-86.5	74.9	40.5	36.0	34.0	2.85628	6	7								

FEB. 20, 1965 9 HR 57 MIN 24 SEC 907 MS TAB NO 64 ATLAS PHOTO NO 6 POD SEQUENCE NO 1641

TRAJECTORY DATA				SEC TO IMPACT				ALT		LAT		LON		R		V		PTH		AZ					
				11.849				20.97441		2.458		23.914		1756.474		2.640		-42.220		74.088					
PHOTO DATA								A*		B/A		AZPHAZ		INCD		PHAZ		EMIS		ALPHA		SCALE		PT-PT	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA																		
2	2.565	24.430	26.40477	-104.4	-5.0	-92.4	75.6	0.53482	0.792	-89.3	75.0	38.1	37.7	36.7	0.										
3	2.600	24.390	25.86653	-108.3	-4.8	-90.6	75.1	0.52291	0.810	-86.5	74.9	40.5	36.1	34.1	1.58929	2	3								
4	2.603	24.479	27.49616	-106.5	-5.3	-90.6	75.3	0.55596	0.761	-86.1	75.0	35.9	40.6	38.8	2.70351	3	4								
5	2.529	24.471	27.05837	-100.8	-5.2	-94.2	76.1	0.54700	0.773	-92.4	75.0	35.8	39.5	39.2	2.24930	4	5								
6	2.531	24.383	25.47917	-102.0	-4.7	-94.0	75.9	0.51518	0.822	-92.1	74.9	40.4	34.8	34.4	2.64660	5	6								
7	2.600	24.390	25.86653	-108.3	-4.8	-90.6	75.1	0.52291	0.810	-86.5	74.9	40.5	36.1	34.1	2.11235	6	7								

RA-VIII CAMERA P4

17

FEB. 20, 1965 9 HR 57 MIN 25 SEC 747 MS TAB NO 65 ATLAS PHOTO NO 7 POD SEQUENCE NO 1642

TRAJECTORY DATA				SEC TO IMPACT				ALT		LAT		LON		R		V		PTH		AZ					
				11.009				19.48453		2.472		23.965		1754.985		2.641		-42.188		74.090					
PHOTO DATA								A*		B/A		AZPHAZ		INCD		PHAZ		EMIS		ALPHA		SCALE		PT-PT	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA																		
2	2.573	24.445	24.94062	-104.4	-5.0	-92.4	75.6	0.49706	0.791	-89.3	75.0	38.1	37.7	36.7	0.										
3	2.605	24.409	24.04011	-108.3	-4.8	-90.6	75.1	0.48599	0.809	-86.5	75.0	40.5	36.1	34.1	1.47717	2	3								
4	2.607	24.492	25.55556	-106.5	-5.4	-90.6	75.3	0.51672	0.761	-86.1	75.0	35.9	40.6	38.8	2.51319	3	4								
5	2.539	24.484	25.14825	-100.8	-5.3	-94.2	76.1	0.50839	0.773	-92.4	75.0	35.8	39.5	39.2	2.09062	4	5								
6	2.540	24.402	23.67773	-102.1	-4.7	-94.0	75.9	0.47877	0.822	-92.1	75.0	40.4	34.9	34.4	2.46023	5	6								
7	2.605	24.409	24.04011	-108.3	-4.8	-90.6	75.1	0.48599	0.809	-86.5	75.0	40.5	36.1	34.1	1.96325	6	7								

FEB. 20, 1965 9 HR 57 MIN 26 SEC 587 MS TAB NO 66 ATLAS PHOTO NO 8 POD SEQUENCE NO 1643

TRAJECTORY DATA				SEC TO IMPACT				ALT		LAT		LON		R		V		PTH		AZ					
				10.169				17.99529		2.487		24.017		1753.495		2.641		-42.155		74.093					
PHOTO DATA								A*		B/A		AZPHAZ		INCD		PHAZ		EMIS		ALPHA		SCALE		PT-PT	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA																		
2	2.580	24.461	22.67559	-104.4	-5.0	-92.4	75.6	0.45929	0.791	-89.3	75.0	38.1	37.7	36.7	0.										
3	2.610	24.427	22.21286	-108.3	-4.8	-90.6	75.0	0.44905	0.809	-86.5	75.0	40.5	36.1	34.1	1.36500	2	3								
4	2.612	24.504	23.61394	-106.5	-5.4	-90.6	75.3	0.47746	0.760	-86.1	75.1	35.9	40.6	38.8	2.32267	3	4								
5	2.549	24.496	24.23719	-100.8	-5.3	-94.2	76.1	0.46975	0.773	-92.4	75.1	35.8	39.5	39.2	1.93184	4	5								
6	2.550	24.421	21.87952	-102.1	-4.7	-94.0	75.9	0.44239	0.822	-92.1	75.0	40.4	34.9	34.5	2.27370	5	6								
7	2.610	24.427	22.21286	-108.3	-4.8	-90.6	75.0	0.44905	0.809	-86.5	75.0	40.5	36.1	34.1	1.81408	6	7								

FEB. 20, 1965 9 HR 57 MIN 27 SEC 427 MS TAB NO 67 ATLAS PHOTO NO 9 POD SEQUENCE NO 1644

TRAJECTORY DATA				SEC TO IMPACT				ALT		LAT		LON		R		V		PTH		AZ					
				9.329				16.50629		2.502		24.069		1752.006		2.642		-42.123		74.095					
PHOTO DATA								A*		B/A		AZPHAZ		INCD		PHAZ		EMIS		ALPHA		SCALE		PT-PT	
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA																		
2	2.587	24.477	20.80915	-104.4	-5.0	-92.4	75.6	0.42148	0.791	-89.3	75.0	38.1	37.7	36.7	0.										
3	2.614	24.446	20.38427	-108.3	-4.8	-90.6	75.0	0.41208	0.809	-86.5	75.0	40.5	36.1	34.1	1.25271	2	3								
4	2.617	24.516	21.67075	-106.5	-5.4	-90.6	75.3	0.43817	0.760	-86.1	75.1	35.9	40.6	38.8	2.13195	3	4								
5	2.558	24.509	21.32467	-100.8	-5.3	-94.2	76.1	0.43109	0.773	-92.4	75.1	35.8	39.5	39.2	1.77293	4	5								
6	2.560	24.440	20.07804	-102.1	-4.7	-94.0	75.9	0.40597	0.822	-92.1	75.0	40.4	34.9	34.5	2.08695	5	6								
7	2.614	24.446	20.38427	-108.3	-4.8	-90.6	75.0	0.41208	0.809	-86.5	75.0	40.5	36.1	34.1	1.66479	6	7								

RA-VIII CAMERA P4

18

FEB. 20, 1965 9 HR 57 MIN 29 SEC 107 MS TAB NO 69 ATLAS PHOTO NO 11 POD SEQUENCE NO 1646

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				7.649	13.52965	2.531	24.173	1749.030	2.644	-42.058	74.100					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.602	24.508	17.07269	-104.4	-5.0	-92.3	75.6	0.34580	0.791	-89.3	75.1	38.1	37.8	36.8	0.	1-2
3	2.624	24.483	16.72372	-108.3	-4.8	-90.6	75.0	0.33808	0.809	-86.5	75.0	40.5	36.2	34.2	1.02789	2-3
4	2.626	24.541	17.78040	-106.5	-5.4	-90.6	75.3	0.35951	0.760	-86.1	75.1	35.9	40.7	38.8	1.74987	3-4
5	2.578	24.535	17.49586	-100.9	-5.3	-94.2	76.1	0.35369	0.773	-92.4	75.1	35.8	39.5	39.2	1.45473	4-5
6	2.579	24.473	16.47195	-102.1	-4.7	-94.0	75.9	0.33305	0.821	-92.1	75.0	40.4	34.9	34.5	1.71287	5-6
7	2.624	24.483	16.72372	-108.3	-4.8	-90.6	75.0	0.33808	0.809	-86.5	75.0	40.5	36.2	34.2	1.36590	6-7

FEB. 20, 1965 9 HR 57 MIN 29 SEC 947 MS TAB NO 70 ATLAS PHOTO NO 12 POD SEQUENCE NO 1647

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				6.809	12.04202	2.546	24.225	1747.542	2.645	-42.025	74.102					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.609	24.524	15.20268	-104.4	-5.0	-92.3	75.6	0.30793	0.790	-89.3	75.1	38.1	37.8	36.8	0.	1-2
3	2.629	24.501	15.20174	-108.3	-4.8	-90.6	75.0	0.30105	0.808	-86.5	75.1	40.5	36.2	34.2	0.91535	2-3
4	2.630	24.553	15.83324	-106.5	-5.4	-90.6	75.3	0.32014	0.760	-86.1	75.1	35.9	40.7	38.8	1.55852	3-4
5	2.588	24.548	15.57961	-100.9	-5.3	-94.2	76.1	0.31495	0.772	-92.4	75.1	35.8	39.5	39.2	1.29546	4-5
6	2.589	24.497	14.66733	-102.1	-4.7	-94.0	75.9	0.29657	0.821	-92.1	75.1	40.4	35.0	34.5	1.52554	5-6
7	2.629	24.501	14.89176	-108.3	-4.8	-90.6	75.0	0.30105	0.808	-86.5	75.1	40.5	36.2	34.2	1.21632	6-7

FEB. 20, 1965 9 HR 57 MIN 30 SEC 787 MS TAB NO 71 ATLAS PHOTO NO 13 POD SEQUENCE NO 1648

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				5.969	10.55475	2.561	24.277	1746.055	2.646	-41.992	74.105					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.616	24.540	13.33137	-104.4	-5.0	-92.3	75.6	0.27002	0.790	-89.3	75.1	38.1	37.8	36.8	0.	1-2
3	2.633	24.520	13.05858	-108.3	-4.8	-90.6	75.0	0.26399	0.808	-86.5	75.1	40.5	36.2	34.2	0.80273	2-3
4	2.635	24.565	13.88464	-106.5	-5.4	-90.6	75.3	0.28074	0.760	-86.1	75.1	35.9	40.7	38.9	1.36698	3-4
5	2.598	24.560	13.66200	-100.9	-5.3	-94.2	76.1	0.27618	0.772	-92.4	75.1	35.8	39.6	39.2	1.13606	4-5
6	2.598	24.516	12.86158	-102.1	-4.7	-94.0	75.9	0.26005	0.821	-92.1	75.1	40.4	35.0	34.6	1.33802	5-6
7	2.633	24.520	13.05858	-108.3	-4.8	-90.6	75.0	0.26399	0.808	-86.5	75.1	40.5	36.2	34.2	1.06661	6-7

FEB. 20, 1965 9 HR 57 MIN 31 SEC 627 MS TAB NO 72 ATLAS PHOTO NO 14 POD SEQUENCE NO 1649

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				5.129	9.06799	2.576	24.329	1744.568	2.647	-41.960	74.107					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.623	24.555	11.45890	-104.4	-5.0	-92.3	75.6	0.23210	0.790	-89.3	75.1	38.1	37.8	36.8	0.	1-2
3	2.638	24.538	11.22431	-108.3	-4.8	-90.6	75.0	0.22691	0.808	-86.5	75.1	40.5	36.2	34.2	0.69002	2-3
4	2.639	24.577	11.93474	-106.5	-5.4	-90.6	75.3	0.24131	0.760	-86.1	75.1	35.9	40.7	38.9	1.17524	3-4
5	2.607	24.573	11.74319	-100.9	-5.3	-94.2	76.1	0.23740	0.772	-92.4	75.1	35.8	39.6	39.3	0.97655	4-5
6	2.608	24.535	11.05480	-102.1	-4.7	-94.0	75.9	0.22352	0.821	-92.1	75.1	40.4	35.0	34.6	1.15032	5-6
7	2.638	24.538	11.22431	-108.3	-4.8	-90.6	75.0	0.22691	0.808	-86.5	75.1	40.5	36.2	34.2	0.91682	6-7

RA-VIII CAMERA P4

19

FEB. 20, 1965 9 HR 57 MIN 32 SEC 467 MS TAB NO 73 ATLAS PHOTO NO 15 POD SEQUENCE NO 1650

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				4.289	7.58154	2.591	24.381	1743.082	2.648	-41.927	74.109					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.630	24.571	9.58513	-104.5	-5.0	-92.3	75.5	0.19414	0.790	-89.3	75.1	38.1	37.8	36.8	0.	1-2
3	2.643	24.556	9.38878	-108.3	-4.8	-90.6	75.0	0.18980	0.808	-86.5	75.1	40.5	36.2	34.2	0.57723	2-3
4	2.644	24.589	9.98339	-106.5	-5.4	-90.6	75.3	0.20186	0.759	-86.1	75.1	35.9	40.7	38.9	0.98327	3-4
5	2.617	24.586	9.82297	-100.9	-5.3	-94.2	76.0	0.19858	0.772	-92.4	75.1	35.8	39.6	39.3	0.81691	4-5
6	2.618	24.554	9.24685	-102.1	-4.7	-94.0	75.8	0.18697	0.820	-92.1	75.1	40.4	35.0	34.6	0.96239	5-6
7	2.643	24.556	9.38878	-108.3	-4.8	-90.6	75.0	0.18980	0.808	-86.5	75.1	40.5	36.2	34.2	0.76691	6-7

FEB. 20, 1965 9 HR 57 MIN 33 SEC 307 MS TAB NO 74 ATLAS PHOTO NO 16 POD SEQUENCE NO 1651

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				3.449	6.09578	2.606	24.434	1741.596	2.649	-41.894	74.112					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.638	24.586	7.71040	-104.5	-5.1	-92.3	75.5	0.15617	0.790	-89.3	75.1	38.1	37.8	36.9	0.	1-2
3	2.648	24.575	7.55237	-108.3	-4.8	-90.6	75.0	0.15268	0.808	-86.5	75.1	40.5	36.3	34.3	0.46435	2-3
4	2.648	24.601	8.03094	-106.5	-5.4	-90.6	75.2	0.16238	0.759	-86.1	75.2	35.9	40.7	38.9	0.79112	3-4
5	2.627	24.598	7.90178	-100.9	-5.3	-94.2	76.0	0.15974	0.772	-92.4	75.2	35.8	39.6	39.3	0.65717	4-5
6	2.627	24.573	7.43808	-102.2	-4.7	-94.0	75.8	0.15039	0.820	-92.1	75.1	40.4	35.0	34.6	0.77432	5-6
7	2.648	24.575	7.55237	-108.3	-4.8	-90.6	75.0	0.15268	0.808	-86.5	75.1	40.5	36.3	34.3	0.61693	6-7

FEB. 20, 1965 9 HR 57 MIN 34 SEC 147 MS TAB NO 75 ATLAS PHOTO NO 17 POD SEQUENCE NO 1652

TRAJECTORY DATA				SEC TO IMPACT	ALT	LAT	LON	R	V	PTH	AZ					
				2.609	4.61023	2.620	24.486	1740.110	2.650	-41.861	74.114					
PHOTO DATA																
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT
2	2.645	24.602	5.83415	-104.5	-5.1	-92.3	75.5	0.11817	0.790	-89.3	75.2	38.1	37.9	36.9	0.	1-2
3	2.652	24.593	5.71449	-108.3	-4.8	-90.6	75.0	0.11552	0.807	-86.5	75.2	40.5	36.3	34.3	0.35139	2-3
4	2.653	24.613	6.07683	-106.5	-5.4	-90.6	75.2	0.12287	0.759	-86.1	75.2	35.9	40.7	38.9	0.59874	3-4
5	2.637	24.611	5.97899	-101.0	-5.3	-94.2	76.0	0.12087	0.772	-92.4	75.2	35.8	39.6	39.3	0.49728	4-5
6	2.637	24.592	5.62793	-102.2	-4.7	-94.0	75.8	0.11379	0.820	-92.1	75.2	40.4	35.1	34.6	0.58599	5-6
7	2.652	24.593	5.71449	-108.3	-4.8	-90.6	75.0	0.11552	0.807	-86.5	75.2	40.5	36.3	34.3	0.46680	6-7

FEB. 20, 1965 9 HR 57 MIN 34 SEC 987 MS TAB NO 76 ATLAS PHOTO NO 18 POD SEQUENCE NO 1653

TRAJECTORY DATA				SEC TO IMPACT				ALT		LAT		LON		R		V		PTH		AZ	
				1.769				3.12524		2.635		24.539		1738.625		2.650		-41.828		74.117	
PHOTO DATA																					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT					
2	2.652	24.617	3.95682	-104.5	-5.1	-92.3	75.5	0.08014	0.789	-89.3	75.2	38.1	37.9	36.9	0.	1- 2					
3	2.657	24.611	3.87565	-108.3	-4.8	-90.6	75.0	0.07835	0.807	-86.5	75.2	40.5	36.3	34.3	0.23832	2- 3					
4	2.658	24.625	4.12151	-106.5	-5.4	-90.6	75.2	0.08333	0.759	-86.1	75.2	35.9	40.7	38.9	0.40615	3- 4					
5	2.646	24.624	4.05509	-101.0	-5.3	-94.2	76.0	0.08198	0.771	-92.4	75.2	35.8	39.6	39.3	0.33728	4- 5					
6	2.647	24.610	3.81686	-102.2	-4.7	-94.0	75.8	0.07718	0.820	-92.1	75.2	40.4	35.1	34.7	0.39751	5- 6					
7	2.657	24.611	3.87565	-108.3	-4.8	-90.6	75.0	0.07835	0.807	-86.5	75.2	40.5	36.3	34.3	0.31661	6- 7					

RA-VIII CAMERA P4

20

FEB. 20, 1965 9 HR 57 MIN 35 SEC 827 MS TAB NO 77 ATLAS PHOTO NO 19 POD SEQUENCE NO 1654

TRAJECTORY DATA				SEC TO IMPACT				ALT		LAT		LON		R		V		PTH		AZ	
				0.929				1.64063		2.650		24.592		1737.141		2.651		-41.795		74.119	
PHOTO DATA																					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT					
2	2.659	24.633	2.07817	-104.5	-5.1	-92.3	75.5	0.04209	0.789	-89.3	75.2	38.1	37.9	36.9	0.	1- 2					
3	2.662	24.630	2.03552	-108.3	-4.8	-90.6	75.0	0.04115	0.807	-86.5	75.2	40.5	36.3	34.3	0.12518	2- 3					
4	2.662	24.637	2.16473	-106.5	-5.4	-90.6	75.2	0.04377	0.759	-86.1	75.2	35.9	40.7	38.9	0.21337	3- 4					
5	2.656	24.636	2.12980	-101.0	-5.3	-94.2	76.0	0.04305	0.771	-92.4	75.2	35.8	39.6	39.3	0.17716	4- 5					
6	2.656	24.629	2.00462	-102.2	-4.7	-94.0	75.8	0.04053	0.820	-92.1	75.2	40.4	35.1	34.7	0.20882	5- 6					
7	2.662	24.630	2.03552	-108.3	-4.8	-90.6	75.0	0.04115	0.807	-86.5	75.2	40.5	36.3	34.3	0.16629	6- 7					

FEB. 20, 1965 9 HR 57 MIN 36 SEC 667 MS TAB NO 78 ATLAS PHOTO NO 20 POD SEQUENCE NO 1655

TRAJECTORY DATA				SEC TO IMPACT				ALT		LAT		LON		R		V		PTH		AZ	
				0.089				0.15652		2.665		24.644		1735.657		2.652		-41.762		74.122	
PHOTO DATA																					
PT	LAT	LON	RANGE	AZS/C	AZN	AZSUN	AZA	A*	B/A	AZPHAZ	INCD	PHAZ	EMIS	ALPHA	SCALE	PT-PT					
2	2.666	24.648	0.19837	-104.5	-5.1	-92.3	75.5	0.00402	0.789	-89.3	75.2	38.1	37.9	36.9	0.	1- 2					
3	2.667	24.643	0.19429	-108.3	-4.8	-90.6	75.0	0.00393	0.807	-86.5	75.2	40.5	36.3	34.3	0.01195	2- 3					
4	2.667	24.647	0.20663	-106.5	-5.4	-90.6	75.2	0.00418	0.759	-86.1	75.2	35.9	40.8	38.9	0.02036	3- 4					
5	2.666	24.649	0.20329	-101.0	-5.3	-94.2	76.0	0.00411	0.771	-92.4	75.2	35.8	39.7	39.3	0.01691	4- 5					
6	2.666	24.648	0.19134	-102.2	-4.8	-94.0	75.8	0.00387	0.819	-92.1	75.2	40.4	35.1	34.7	0.01993	5- 6					
7	2.667	24.648	0.19429	-108.3	-4.8	-90.6	75.0	0.00393	0.807	-86.5	75.2	40.5	36.3	34.3	0.01587	6- 7					