

DATA SET CATALOG #162

68-014A-00F 30 tapes

OGO-5 ALTITUDE/ORBIT DATA

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1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

When printing, special settings may be required to make the text box appear on the printed output.

Version	Date	Person	Page	Description of Change
01				
02				

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC
INFORMATION SYSTEM:

<http://nssdc.gsfc.nasa.gov/nmc/>

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

- a. Associated Documents To find associated documents you will need to know the document ID number and then click here.
<http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/>

- b. Core Catalog Materials

MULTI-COORD EPHERMIS TAPES

68-014A-00F

XX NO - 00200

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY 30 9-TRACK, 1600 BPI TAPES, WRITTEN IN BINARY WITH STANDARD LABELS. THERE ARE FIVE RESTORED TAPES, THE RESTORED TAPES ARE UNLABELED. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI. THE TAPES WERE CREATED ON AN IBM 360 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	DD#	FILES	TIME SPAN
DR03863	DS03863	D07963	1-5	03/04/68 - 03/14/68
		D07964	6-11	03/14/68 - 03/27/68
		D07965	12-17	03/27/68 - 04/10/68
		D07966	18-23	04/10/68 - 04/23/68
		D07967	24-29	04/23/68 - 05/06/68
		D07968	30-35	05/06/68 - 05/19/68
DR03864	DS03864	D07969	1-6	05/19/68 - 06/01/68
		D07970	7-12	06/01/68 - 06/14/68
		D07971	13-18	06/14/68 - 06/27/68
		D07972	19-24	06/27/68 - 07/10/68
		D08681	25-30	07/10/68 - 07/23/68
		D08682	31-36	07/23/68 - 08/08/68
DR03865	DS03865	D08683	1-6	08/08/68 - 08/18/68
		D09861	7-12	08/18/68 - 08/31/68
		D09862	13-18	08/31/68 - 09/13/68
		D09863	19-24	09/13/68 - 09/26/68
		D09975	25-30	09/26/68 - 10/09/68
		D10230	31-36	10/09/68 - 10/22/68
DR03866	DS03866	D09976	1-6	10/22/68 - 11/04/68
		D09977	7-12	11/04/68 - 11/17/68
		D10237	13-18	11/11/68 - 11/30/68
		D10238	19-24	11/30/68 - 12/13/68
		D10239	25-30	12/13/68 - 12/26/68
		D10240	31-36	12/26/68 - 01/08/69
DR03867	DS03867	D10241	1-6	01/08/69 - 01/21/69
		D10242	7-12	01/21/69 - 02/01/69
		D10243	13-18	02/03/69 - 02/16/69
		D10244	19-24	02/16/69 - 03/01/69
		D10245	25-30	03/01/69 - 03/14/69
		D10246	31-36	03/14/69 - 03/27/69

OGO-5 ALTITUDE/ORBIT DATA

68-014A-00F

This data set contains ³⁰~~12~~ 9 track, 800 BPI, Binary magnetic tapes, created on an IBM 360 computer. Each tape has a standard label before and after each orbit. So one multiplies the number of orbits by 3 to get the total number of files on each tape. Each tape has 6 orbits (except the first which contains 5). There are 500 bytes or 125 word per logical record. Each physical record contains 32,000 bytes or 8,000 words.

Ogo-5 Attitude/Orbit Tapes

<u>D#</u>	<u>C#</u>	<u>TIME SPANS</u>
D-07963	C-05717	Mar. 4, 1968 - Mar. 14, 1968
D-07964	C-05718	Mar. 14, 1968 - Mar. 27, 1968
D-07965	C-05719	Mar. 27, 1968 - Apr. 10, 1968
D-07966	C-05720	Apr. 10, 1968 - Apr. 23, 1968
D-07967	C-05721	Apr. 23, 1968 - May 6, 1968
D-07968	C-05722	May 6, 1968 - May 19, 1968
D-07969	C-05723	May 19, 1968 - June 1, 1968
D-07970	C-05724	June 1, 1968 - June 14, 1968
D-07971	C-05725	June 14, 1968 - June 27, 1968
D-07972	C-05726	June 27, 1968 - July 10, 1968
D-08681	C-06402	July 10, 1968 - July 23, 1968
D-08682	C-06403	July 23, 1968 - Aug. 8, 1968
D-08683	C-06404	Aug. 8, 1968 - Aug. 18, 1968
D-09861	C-07064	Aug. 18, 1968 - Aug. 31, 1968
D-09862	C-07065	Aug. 31, 1968 - Sept. 13, 1968
D-09863	C-07066	Sept. 13, 1968 - Sept. 26, 1968
D-09975	C-07241	Sept. 26, 1968 - Oct. 9, 1968
D-10230	C-07242	Oct. 9, 1968 - Oct. 22, 1968
D-09976	C-07243	Oct. 22, 1968 - Nov. 4, 1968
D-09977	C-07244	Nov. 4, 1968 - Nov. 17, 1968

OGO-5 Attitude/Orbit Tapes

<u>D#</u>	<u>C#</u>	<u>TIME SPANS</u>
D-10237	C-07691	Nov. 11, 1968 - Nov. 30, 1968
D-10238	C-07692	Nov. 30, 1968 - Dec. 13, 1968
D-10239	C-07693	Dec. 13, 1968 - Dec. 26, 1968
D-10240	C-07694	Dec. 26, 1968 - Jan. 8, 1969
D-10241	C-07695	Jan. 8, 1969 - Jan. 21, 1969
D-10242	C-07696	Jan. 21, 1969 - Feb. 1, 1969
D-10243	C-07697	Feb. 3, 1969 - Feb. 16, 1969
D-10244	C-07698	Feb. 16, 1969 - Mar. 1, 1969
D-10245	C-07699	Mar. 1, 1969 - Mar. 14, 1969
D-10246	C-07700	Mar. 14, 1969 - Mar. 27, 1969

OGO-5 Attitude/Orbit Tape Format

The data on the UCLA copied attitude tapes has the same logical format as the original 7 track tapes, which is described in Data Processing Plan for Eccentric Orbiting Geophysical Observatory. The physical characteristics of our 9-track copy are as follows:

1. 9-track
2. Odd parity
3. 800 bits per inch
4. 500 bytes per logical record
5. 125 words per logical record
6. 32,000 bytes per physical record
7. 8,000 words per physical record
8. 64 logical records per physical record
9. Standard labelled tape
10. 6 files per tape (except tape #1 which contains 5 files)
11. 1 orbit per file

The Fortran read and format statements are:

```
READ (11,1) (D(I),I=1,125)
```

```
1 FORMAT (125A4)
```

The IBM 360 JCL is:

```
//GO.FT11FOO1 DD DISP=OLD,UNIT=2400,LABEL=(1,SL,,IN),
// DSN=OREO10,VOL=SER=IGO254,
// DCB=(RECFM=FB,LRECL=500,BLKSIZE=32000)
```

```
//GO.FT11F006 DD DISP=OLD,LABEL=(6,SL,,IN),
```

```
// DSN=ORB015,VOL=REF=*.FT11F001,DCB=*.FT11F001
```

Note: Orbits 1 through 5 are on tape 1

Orbits 5 through 10 are on tape 2

Orbits 5(N-1) through 5N are on tape N

The floating point words are in IBM/360 short floating format as shown in the figure below. Sign (S) is bit 0 (the sign of the fraction). The characteristic is in bits 1-7. It is the power of 16 plus 64. The fraction is in bits 8-31 (the base 16 fraction)



The copied tapes retain an error which was made on the initial tapes received. The error is in the second, third, and fourth elements of the matrix which converts from inertial coordinates (GEI) to GSE. This matrix is contained in words 100 to 108 (D(100) to D(108)) of each logical record. The error is simply in sign and the correction makes use of the fact that the matrix from GEI to GSM is correct. This matrix is contained in words 109 through 117 (D(109) to D(117)). The first three elements of these two matrices are supposed to be identical.

Thus in our processing we check as follows:

IF(D(101)*D(110).LT.0.0) GO TO 10

GO TO 20

10 D(101)=-D(101)

D(102)=-D(102)

D(103)=-D(103)

20 CONTINUE

ATTITUDE-ORBIT TAPE FORMAT

All data is represented in floating point format:

left 9 bits	characteristic
right 27 bits	mantissa

There is one orbit per file. After the EOF following the last orbit on the tape, there is a (250 word) record of floating point nines, i.e., 99999999.0, which is followed by an EOF. Orbit 1 starts at the first ascending node after launch. All attitude-orbit tapes have odd parity.

Attitude-Orbit Label Record				
Word	Symbol	Function or Name	Description, Notes	Units
1	ID	Identification		none
2		Start time of orbit	Greenwich Mean Time (GMT) is used. This is also called Universal Time.	year
3				month
4				day
5	tE1	Eclipse start	Start time of eclipse in GMT.	day
6				millisec of day
7	tE2	Eclipse end	End time of eclipse in GMT	day
8				millisec of day
9	tO1	Orbit start	Start time of orbit. That is, time of the ascending node. The ascending node is that point in the equatorial plane through which the satellite passes while going from south to north. See Figure 61A.	day
10				millisec of day

Figure 60. Attitude-Orbit Tape Format and Definitions

Word	Symbol	Function or Name	Description, Notes	Units
11 12	tO2	Orbit end	End time in GMT of this orbit and start time of the next orbit. That is, time of the next ascending node. See Figure (c).	day millisec of day
13 14	tn	Noon turn	Time in GMT of predicted noon turn. The paddles are only able to rotate through 180°. When the paddles are looking straight up ($\varphi_n = 270^\circ$) or straight down ($\varphi_p = 90^\circ$) at the sun, the spacecraft turns 180° about the body Z axis, so the paddle may reverse its direction of rotation and still continue to follow the sun. See data record word 121.	day millisec of day
15 16	τ	Epoch	The arbitrary reference time in GMT at which the orbital elements were computed.	day millisec of day
17	Δt	Sampling rate	The values in the data records are given at intervals of $t_n + \Delta t$. The value of Δt is expected to be 60,000 milliseconds (1 min).	milliseconds
18		Orbit number	Orbit zero is from launch to the first ascending node. Orbit one starts at the first ascending node	none

Figure 60. Attitude-Orbit Tepe Format and Definitions (Continued)

Word	Symbol	Function or Name	Description, Notes	Units
			and ends at the second ascending node. The n^{th} orbit starts at the n^{th} ascending node. See Figure 61A.	
19	a	Semi-major axis	The semi-major axis of the orbital ellipse (1 Earth radius = 6371.2 km).	earth radii
20	e	Eccentricity	The eccentricity of the orbital ellipse. See Figure 61A.	none
21	i	Inclination	The angle of the orbital plane and the earth's equatorial plane. See Figure 61A.	degrees
22	Ω	Longitude of ascending node (Right Ascension)	The angle between the Geocentric Equatorial Inertial (GEI) X axis (Y) and the position vector of the ascending node. See Figure 61A.	degrees
23	$\dot{\Omega}$		Rate of change of Ω .	degrees/day
24	ω	Argument of perigee	Perigee is that orbital point which is nearest the earth. ω is the angle between the position vector of the ascending node and the position vector of perigee. See Figure 61A.	degrees
25	$\dot{\omega}$		Rate of change of ω .	degrees/day

Figure 60. Attitude-Orbit Tape Format and Definitions (Continued)

Word	Symbol	Function or Name	Description, Notes	Units
26	T	Period	The time required to make one orbit.	minutes
27	$\dot{T}$		Rate of change of T.	minutes/day
28		Date when attitude computations were made		year
29				month
30				day
31-250			Spares	
Attitude-Orbit Data Record				
1	T1	Time	Day count.	days
2			Milliseconds of day in Greenwich Mean Time (GMT). All data in this record corresponds to T ₁ .	milliseconds
3	TL	Local Time	Local Apparent Solar Time of subsatellite point.	hours
4				minutes
5				tenths of minutes
6	α	Right ascension	The angle from the first point of Aries (γ) to the equatorial plane projection of the spacecraft position vector.	degrees
7	δ	Declination	The angle from the equatorial plane projection of the spacecraft	degrees

Figure 60. Attitude-Orbit Tape Format and Definitions (Continued)

Word	Symbol	Function or Name	Description, Notes	Units
8,9, 10	P	Position vector	position vector to the spacecraft position vector. P = (Px, Py, Pz) is the position vector of the spacecraft in Geocentric Equatorial Inertial (GEI) coordinates. GEI coordinates are also known as Universal coordinates.	kilometers
11,12, 13	V	Velocity vector	V = (Vx, Vy, Vz) is the direction and magnitude of the spacecraft velocity in GEI coordinates.	kilometers/sec
14,15, 16	S	Solar vector	S = (Sx, Sy, Sz) is the position vector of the sun in GEI coordinates.	kilometers
17	ϕ	Latitude	Geodetic latitude of sub-satellite point on the spheroid. North is +, South is -. The International Spheroid is used;	degrees
18	λ	Longitude	a = semi-major axis = 6378.388 km f = flattening = 297. = a/a-b. Geodetic longitude of sub-satellite point on the spheroid. East is +, West is -.	degrees

Figure 60. Attitude-Orbit Tape Format and Definitions (Continued)

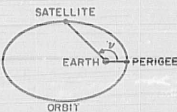
Word	Symbol	Function or Name	Description, Notes	Units
19	h	Height	Height of satellite above the spheroid.	kilometers
20	ν	True anomaly	Orbital central angle between perigee and satellite with earth as focus. See Figure 61A.	degrees
				
21	Φ	Sun earth satellite angle	The angle between the satellite position vector and the sun position vector.	degrees
22,23, 24	bXI	Ideal body roll axis	bXI = (bXI _x , bXI _y , bXI _z) is the ideal body X axis as a unit vector in GEI coordinates.	none
25,26, 27	bYI	Ideal body pitch axis	bYI = (bYI _x , bYI _y , bYI _z) is the ideal body Y axis as a unit vector in GEI coordinates.	none
28,29, 30	bZI	Ideal body yaw axis	bZI = (bZI _x , bZI _y , bZI _z) is the ideal body Z axis as a unit vector in GEI coordinates.	none

Figure 60. Attitude-Orbit Tape Format and Definitions (Continued)

Word	Symbol	Function or Name	Description, Notes	Units
31,32 33	PXI	Ideal paddle roll axis	$PXI = (PXIx, PXIy, PXIz)$ is the paddle X axis as a unit vector in GEI coordinates	none
34,35 36	PYI	Ideal paddle pitch axis	$PYI = (PYIx, PYIy, PYIz)$ is the paddle Y axis as a unit vector in GEI coordinates.	none
37,38 39	PZI	Ideal paddle yaw axis	$PZI = (PZIx, PZIy, PZIz)$ is the paddle Z axis as a unit vector in GEI coordinates.	none
40,41 42	EXI	OPEP ideal roll axis	$EXI = (EXIx, EXIy, EXIz)$ is the OPEP X axis as a unit vector in GEI coordinates.	none
43,44 45	EYI	OPEP ideal pitch axis	$EYI = (EYIx, EYIy, EYIz)$ is the OPEP Y axis as a unit vector in GEI coordinates.	none
46,47 48	EZI	OPEP ideal yaw axis	$EZI = (EZIx, EZIy, EZIz)$ is the OPEP Z axis as a unit vector in GEI coordinates.	none
49,50 51	bX	Actual body roll axis	$bX = (bXx, bXy, bXz)$ is the body X axis as a unit vector in GEI coordinates.	none
52,53 54	bY	Actual body pitch axis	$bY = (bYx, bYy, bYz)$ is the body Y axis as a unit vector in GEI coordinates.	none

Figure 60. Attitude-Orbit Tape Format and Definitions (Continued)

Word	Symbol	Function or Name	Description, Notes	Units
55,56 57	bZ	Actual body yaw axis	$bZ = (bZ_x, bZ_y, bZ_z)$ is the body Z axis as a unit vector in GEI coordinates.	none
58,59 60	PX	Actual paddle roll axis	$PX = (PX_x, PX_y, PX_z)$ is the paddle X axis as a unit vector in GEI coordinates.	none
61,62 63	PY	Actual paddle pitch axis	$PY = (PY_x, PY_y, PY_z)$ is the paddle Y axis as a unit vector in GEI coordinates.	none
64,65 66	PZ	Actual paddle yaw axis	$PZ = (PZ_x, PZ_y, PZ_z)$ is the paddle Z axis as a unit vector in GEI coordinates.	none
67,68 69	EX	Actual OPEP roll axis	$EX = (EX_x, EX_y, EX_z)$ is the OPEP X axis as a unit vector in GEI coordinates.	none
70,71 72	EY	Actual OPEP pitch axis	$EY = (EY_x, EY_y, EY_z)$ is the OPEP Y axis as a unit vector in GEI coordinates.	none
73,74 75	EZ	Actual OPEP yaw axis	$EZ = (EZ_x, EZ_y, EZ_z)$ is the OPEP Z axis as a unit vector in GEI coordinates.	none
76	R	Magnetic range	$R = L \cos^2(\phi_m)$ where L is the McIlwain parameter of the magnetic shell containing the spacecraft, and	earth radii

Figure 60. Attitude-Orbit Tape Format and Definitions (Continued)

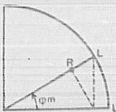
Word	Symbol	Function or Name	Description, Notes	Units
77	ϕm	Magnetic latitude	ϕm is the magnetic latitude of the spacecraft. Note that R is analogous to, but not equal to, P, the magnitude of the position vector. The latitude of the spacecraft in geomagnetic coordinates. At the magnetic equator $\phi m = 0$. See Figure 61B.  RELATIONSHIP BETWEEN L AND R	degrees
78	L	McIlwain parameter	A magnetic shell parameter which is almost constant along lines of force. L is used to label each shell. Note that in the ideal case (dipole field), L is the magnitude of the position vector on the magnetic equator of the line of force. See Figure 61B.	earth radii
79	B	Field strength	The magnitude of magnetic field strength at	gamma

Figure 60. Attitude-Orbit Tape Format and Definitions (Continued)

Word	Symbol	Function or Name	Description, Notes	Units
80	B/B_0	Ratio	the spacecraft. See Figure 61B. B is defined above. B_0 is the equatorial field strength of the shell. See Figure 61B.	none
81	ϕI	Ingress latitude	The latitude of the point on the surface of the earth at which the magnetic line of force passing through the spacecraft enters the earth. See Figure 61B.	degrees
82	λI	Ingress longitude	The longitude of the point on the surface of the earth at which the magnetic line of force passing through the spacecraft enters the earth. See Figure 61B.	degrees
83	ϕE	Egress latitude	The latitude of the point on the surface of the earth at which the magnetic line of force passing through the spacecraft leaves the earth. See Figure 61B.	degrees
84	λE	Egress longitude	The longitude of the point on the surface of the earth at which the magnetic line of force passing through the spacecraft leaves the earth. See Figure 61B.	degrees

Figure 60. Attitude-Orbit Tape Format and Definitions (Continued)

Word	Symbol	Function or Name	Description, Notes	Units
85,86, 87	$\hat{B}$	B vector	$\hat{B} = (B_x, B_y, B_z)$ is the direction of the magnetic line of force expressed as a unit vector in the GEI system.	none
88,89, 90	Bb	B Body	Bb = (Bbx, Bby, Bbz) is the unit direction vector, $\hat{B}$, expressed in the body coordinate system.	none
91,92, 93	BP	B Paddle	BP = (BPx, BPY, BPz) is the unit direction vector, $\hat{B}$, expressed in the paddle coordinate system.	none
94,95, 96	BE	B OPEP	DE = (BEx, BEy, BEz) is the unit direction vector, $\hat{B}$, expressed in the OPEP coordinate system.	none
97,98, 99	B $\hat{B}$ G	B $\hat{B}$ geodetic	B $\hat{B}$ G is the product of the field strength, B, times the unit vector, $\hat{B}G = (\hat{B}GE, \hat{B}GN, \hat{B}GV),$ where ($\hat{B}GE, \hat{B}GN, \hat{B}GV$) is the unit vector, $\hat{B}$, expressed in geodetic coordinates. Note that this is a left-handed system instead of a right-handed system.	

Figure 60. Attitude-Orbit Tape Format and Definitions (Continued)

Word	Symbol	Function or Name	Description, Notes	Units
100-108	TGSE	GSE transformation	This is the transformation matrix which changes the GEI representation of a vector to GSE (Geocentric Solar Ecliptic) representation. The vector remains fixed. Words 100, 101, and 102 contain the values for the top row of the matrix, words 103, 104, and 105 contain the values for the middle row of the matrix, and words 106, 107, and 108 contain the values of the bottom row of the matrix. Any vector, v, in GEI is transformed by the relation $v_{GSE} = (\text{matrix}) v_{GEI}$ $= TGSE v_{GEI}$	none
109-117	TGSM	GSM transformation	This is the transformation matrix which changes the GEI representation of a vector to GSM (Geocentric Solar Magnetic) representation. The vector remains fixed. Words 109, 110, and 111 contain the top row of the matrix, words 112, 113, and 114 contain middle row of the matrix, and words 115, 116 and 117 contain the bottom row of the matrix.	none

Figure 60. Attitude-Orbit Tape Format and Definitions (Continued)

Word	Symbol	Function or Name	Description, Notes	Units
118-120			Spares	
121	ϕP	Paddle angle	The paddle shaft angle is $\phi P = 90^\circ$ when the paddle is looking in the direction of the body +Z axis (toward earth), it is $\phi_p = 180^\circ$ when the paddle is looking in the -Y body axis direction (away from the OPEP), and $\phi P = 270^\circ$ when the paddle is looking in the body -Z direction (away from the earth). Movement of the paddle is restricted such that $90^\circ \leq \phi_p \leq 180^\circ$.	
122	ψE	OPEP angle	The OPEP shaft angle is $\psi E = 0$ when the OPEP is looking in the body +X direction (away from the spacecraft), and $\psi E = 90^\circ$ when the OPEP is looking in the body +Y direction (away from the spacecraft), and $\psi E = 270^\circ$ when the OPEP is looking in the body -Y direction (looking over the spacecraft). The OPEP can rotate through more than 360° .	degrees

Figure 60. Attitude-Orbit Tape Format and Definitions (Continued)

Word	Symbol	Function or Name	Description, Notes	Units														
123	none	Attitude data flag	This flag is assigned the floating point value -1.0 if any housekeeping discrepancies are detected.	none														
124	none	NO DATA flag	A value of 2^K or any combination of $2^{K1} \cdot 2^{K2} \dots 2^{K5}$ in the NO DATA flag signifies that the data indicated by the flag was not available. The ideal value is used when the actual value is not available. The following table is used in words 124 and 125: <table><thead><tr><th>bit value</th><th>data</th></tr></thead><tbody><tr><td>2^0</td><td>roll</td></tr><tr><td>2^1</td><td>pitch</td></tr><tr><td>2^2</td><td>yaw</td></tr><tr><td>2^3</td><td>ψE = OPEP shaft angle</td></tr><tr><td>2^4</td><td>ϕP = Paddle shaft angle</td></tr><tr><td>2^5</td><td>Array error</td></tr></tbody></table> (Note that word 124 is floating point.)	bit value	data	2^0	roll	2^1	pitch	2^2	yaw	2^3	ψE = OPEP shaft angle	2^4	ϕP = Paddle shaft angle	2^5	Array error	
bit value	data																	
2^0	roll																	
2^1	pitch																	
2^2	yaw																	
2^3	ψE = OPEP shaft angle																	
2^4	ϕP = Paddle shaft angle																	
2^5	Array error																	
125	none	SUSPECT DATA flag	This word warns that the indicated data is of a suspected nature. The indica-	none														

Figure 60. Attitude-Orbit Tape Format and Definitions (Continued)

Word	Symbol	Function or Name	Description, Notes	Units
126	T2	Time	tions are the same as for word 124. $T2 = T1 + \Delta t$ and is defined the same as T1.	none
127-250			Defined the same as words 2-125 except that time T2 is used.	none

Abbreviations

EOF	End of File
GEI	Geocentric Equatorial Inertial (coordinates)
GMT	Greenwich Mean Time
GSE	Geocentric Solar Equatorial
GSM	Geocentric Solar Magnetic

Figure 60. Attitude-Orbit Tape Format and Definitions (Continued)

42AB71F3	4198AF9E	4290CBDD	43BE7387	4332E38A	41C0FD5A	41674375	414B1051	47B52548	C723F7A7
C6F72D0C	41584111	4290CBDD	43B33372	42207332	42ADE0CF	4013393D	40211523	40C35CB3	4282E27A
A0FA97E6	4020AB8C	40DF0B3A	C0285E7D	C018967F	C0133B3D	402A1528	C0FC6B83	40F6254A	C0A0497D
C01AEE5E	C04385A5	C0F51F58	C010DC43	C014A98B	C0D8573A	C0B2553F	C0285F0A	C07E55AA	C0A26A8D
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