

DATA SET CATALOG #169

67-073A-00D

OGO-4 ATTITUDE-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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

XXNO 00052

OGO-4

ORBIT ATTITUDE, TAPE

67-073A-00D

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY TWO 9-TRACK, 1600 BPI TAPES, WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON AN IBM 360 COMPUTER AND RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	DD#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR005354	DS005354	DD008079	1	07/28/67 - 05/02/68
		DD008846	2	05/02/68 - 05/08/68

OGO-4 ATTITUDE-ORBIT DATA

This data set consists of two 1600 BPI, 9-track, binary, 1 file data tapes. The first tape consists of orbits 1 - 4092 and the second has orbits 4093 - 8178.

D-08079

C-05962

1 - 4092 orbits

D-08846

C-06991

4093 - 8178 orbits

To: Data Repository

From: ADP Services

Subject: Release of OGO-4 Attitude Orbit data tapes

Please release OGO-4 Attitude Orbit tapes DD5576, DD6174, DD7052 DD8080, and their associated DC numbers. The first two tapes, DD5576 containing orbits 1-4200 with 85 orbits missing, and DD6174 covering orbits 1-4093 with no missing orbits, were merged using program #E5.01.001. Two tapes were generated DD8079 containing orbits 1-4092, and DD8080 covering orbits 4093-4200.

On January 20, 1972, DD7052 was received from the experimenter. While processing, one bad record was encountered. This tape contains orbits 4093-8178, which overlapped with DD8080. A program was created, #E5.01.003 to merge DD8080 and DD7052, and replace the bad record on DD7052. The resultant tape was DD8846 containing orbit 4093-8178.

This data set now consists of the following:

DD8079	DC5962	1-4092 Orbits
DD8846	DC6991	4093-8178 Orbits

Condensed Attitude-Orbit Tape Format

The condensed attitude-orbit tape is a 9-track tape, written at 1300 bpi with standard O/S 360 labels. It contains one record for each orbit. The first 40 bytes of each record contain parameters that are constant for the orbit. Following these 40 bytes are 100 groups of 60 bytes. These bytes contain values for variable parameters sampled at minute intervals. The time of the first of the 100 groups is the time given as the start time of the orbit in the first 40 bytes. The times for the other groups can be computed by incrementing this time by 60,000 milliseconds (1 minute) for each consecutive group. Not all of these groups are used since the orbital period for OGO-D is less than 100 minutes.

The following chart shows the contents of a record:

<u>Bytes</u>	<u>Contents</u>	<u>Units</u>	<u>Type of Variable</u>
1-2	Orbit Number		Integer * 2
3-4	Day of Orbit	Days	Integer * 2
5-8	Start of Orbit	MS	Integer * 4
9-12	End of Orbit	MS	Integer * 4
13-16	Start of Eclipse	MS	Integer * 4
17-20	End of Eclipse	MS	Integer * 4
21-24	Time of Noon Turn	MS	Integer * 4
25-28	Sampling Rate	MS	Integer * 4
29-32	<u>Period of Orbit</u>	Minutes	Integer * 4
33-34	Start Year	Year AD	Integer * 2
35-36	End day of orbit	Days	Integer * 2
37-38	Number of groups used		Integer * 2
39-40	Spare		
41-48	Local Time	HH:MM:T	EBCDIC
49-52	Height above Spheroid	Kilometers	Real * 4
53-56	Sun-Earth-Satellite Angle	Degrees	Real * 4

<u>Index</u>	<u>Parameter</u>	<u>Units</u>	<u>Value</u>
67-69	MORILLWAIN Parameter	Earth Radii	Real * 4
61-64	Field Strength	Gamma	Real * 4
65-68	RN)		Real * 4
69-72	RY Roll Axis	Unit Vector	Real * 4
73-76	RZ)		Real * 4
77-80	PX)		Real * 4
81-84	PY Pitch Axis	Unit Vector	Real * 4
85-88	PZ)		Real * 4
89-92	YX)		Real * 4
93-96	YY Yaw Axis	Unit Vector	Real * 4
97-100	YZ)		Real * 4
101-104	Magnetic Latitude	Degrees	Real * 4
105-108	Latitude of field line ingress	Degrees	Real * 4
109-112	Longitude of field line ingress	Degrees	Real * 4
113-116	Latitude of field line egress	Degrees	Real * 4
117-120	Longitude of field line egress	Degrees	Real * 4
121-124	Field roll axis	Unit Vector	Real * 4
125-128	Field pitch axis	Unit Vector	Real * 4
129-132	Field yaw axis	Unit Vector	Real * 4
133-136	Geographic latitude	Degrees	Real * 4
137-140	Geographic longitude	Degrees	Real * 4
141-10040	99 groups of 100 bytes each where each group is identical to bytes 41-140, for parameters sampled at a different time. The time differences between groups will be one minute.		

000100D1	036CFDA0	03A7AB94	00000000	00000000	0000E460	00000000	004300D1	00400000
F0F67AF7	F67FAF94	F67FAF94	4253AA53	3E2D08C5	451669F0	003A7AD0	040371BF	004070B8
C0AE0DC8	C05A135E	C0B8A024	C0B1BA66	3E1A5C85	413E7A0E	C34A05EF	C24C0CF9	C34A05EF
C09E709C	0406C27E	C31E2F60	BF6E0FAE	C2C8A0D9	F87AF2A0	F87AF2A0	C31B86A0	424A572B
4A4A5E00	0415C0F0	409E3E90	00A6A408	04C8B115	0CA5D526	0020FC54	00B2B1CE	006BFAFD
42321E41	423236A0	C2712E10	C22F5363	C2A555AE	C057E638	0036A47E	00EA3A10	4230B72A
F0F67AF7	F17FAF6C	431B1BEC	42A4B8B1	41223CA7	44A0A0A2	406A9230	405F9D68	405F9D68
C0A7A94A	C025A360	C03B4A63	C075AF67	C0B30782	4E2F7096	42E2B206	02BDD70E	02B2CA1E
40A2A200	C03B03C6	40E4B435	42C2CCF03	C291BF04	F0F67AF1	F37AF7A0	0033A82F	0053666E
C096AD04	405750A6	40547ABC	04B0D23C	04B58935	00A5E0DD	C2A4FE8F	003E44E6	005A44A4
42ABE2EC	42ADAD0A	C29090F9	C292B083	C2A4FE8F	006CD97C	44320D41	40A9A810	40A9E01E
F0F67AF7	F57FAF40	431A7A0D	44A8B0C6	41B17255	44320D41	4226F5F3	42272AC2	C25073FC
C0A487C2	C02F3A59	C09A82F7	C096C1C3	C095A5E6	4226F5F3	F0F67AF1	F77AF6A0	431A36F2
C079765E	40A9A0A0	04EA7A72	4224F605	40BDD14E	00CA3A3F	003A30FA	00A10EE6	00B6E770
440D0DE5	403B8784	42C7D447	C00050A0	C29FC0B8	C0556C64	C04555B4	00CDA2D6	42210514
42232BEE	42231CE2	C290528A	C233CB64	4116A4EE	4A8B0E9E	002D3B07	00B00BF1	C0D9A4C1
F0F67AF7	F87FAF50	431A0F99	424002E8	C07BD305	421F5B95	421F5B95	C35037A3	C2D0D14A
C0A377CB	C032D011	C0A0D69A	C0305F5E	421D1A6D	F0F67AF1	F97AF940	431BF814	424D0BDF
C092166C	004ECF01	402E1155	407E9B19	04B2B0D7	C0A3A61B	C03BF2F5	00A0E52A	00B9B8A4
440B86BF	401F399D	C057203C	C21DDC87	C0B9703A	C09111E0	C0545ED7	40B5F537	421E21B2
421B8CAF	421C686E	431BF9BA	424E8756	41136FA4	4A7AD05B	4010D740	4070A8A3	C0E570D0
F0F67AF7	F17FAF20	C0A020A1	C0A048A5	C05B8B3E	4217A809	C0207E0C	C29003AA	C21AF503
C0A3CD2A	C05A5667	40C67137	42152D2C	C290C6DE	F0F67AF2	F27AF446	431AC0E8	424F5E4A
44751574	3E47732D	40676B1F	C0EA2AF3	C3B6A6AF	00CA4C92F	0046DA70	00B35B13	C0A6A44E
4213D2CF	421B0D25	C28F8FA4	C2182501	C297FEF6	C0B550BA	00A6B767	4033CB2E	421139AE
F0F67AF7	F37FAF6A	431A3147	425A41F5	411214F4	4A7D0D79	0BBD4705	405F1181	C0EDC6E8
C0A63A3E	C0AAB8B1	C0B0D92A	C0AA730E	C3A0A6FE	41FF5F3B	421AD05E	C2BFCDC3	4215B865
C0C5D0F4	C06763CF	C07D8E9E	41D45AF7	C290HD07	F0F67AF2	F47AF740	431A6A3E	42B310AF
446D131E	C015FAFE	405471B0	C070455F	00DA0A12	C0A8062C	004E2661	00H77AA0	40A93945
C011B859	4210A3F3	C2B79EA1	C2133596	C017D406	C2906007	C0D098F4	406303F6	41A9B24F
F0F67AF7	F57FAF80	431AB661	425221E0	4111B054	4A6A6993	C27E2E2E	41E37E05	C25F555E
C0AA351D	C0510BDF	C0B02E4B	C0B021E2	C017D406	C017D406	F47AF6A0	431B1F57	422539D0
C0D913FF	007A614A	4048C6D0	4155FD26	C290AD2E	00C098F4	C06E16FE	40A4A736	C0F1A409
440B86BF	C03597AF	40A7C2BA	C0E1F586	40A59396	00AC9396	C0E2E297	C075B512	402AF5A5
4145E1EC	41D0A13C	C2B8F307	C21060F2	C293B855	C0E2E297	4A6B63A0	402AF13A	4035B953
F0F67AF7	F87FAF04	431B7703	425430DA	4110D1B4	409306BC	41CC5A46	C2B56057	C210F2FC
C0AF7AC6	C05519A4	C0B72D2C	C0A27D0C	3F8199C0	F0F67AF2	F67AF140	431CA6F6	42553536
C0DF1B22	C07D8A46	3F24A396	C123030C	40A20A0F	C0E27701	C05641E5	00B55C54	00B26B7F
446A204F	004AEC1E	042BACAC	C0E6508A	C0A20A0F	C0E27701	C05641E5	00B55C54	00B26B7F
C1355C26	41DBBF15	C2B05936	C21115A0	C292A20F	C0E27701	C05641E5	00B55C54	00B26B7F
F0F67AF7	F07FAF24	431C5F26	C0B03945	C1A81B59	402DA826	C172B0A3	41F30F6D	C28C9C14
C0B59B07	C07F3BAC	C0A25D30	C1A561F8	C29050AD	F0F67AF3	F17AF340	431D3A3F	422566A1
C0A04185	C06926A6	40156392	C0E3AF10	40A9B865	C0BBD478	C0567745	C0AF3C1E	00AFCE95
447071CE	C06926A6	421176AC	C2B8E77C	C2152600	C2E1DFBE	C0C900A8	007D1D30	C061EE1C
C1AFDA29	F057FAF3	F27AF940	4310F9A5	42537D89	41124250	4A7517BF	007430BE	3FA7B38D
C0B23F5E	C056A0A6	C0A9A90C	00AD4A27	40A6355C	C1E0C854	C214D298	C2B9FB92	C217D768
C0B9D05E	C07560CF	67CDD0C6	C2122110	C290B191	F0F67AF3	F37AF740	431EBAFA	42595958
4A7A6AD9	C07FA186	67C50AFA	C0E212C0	4093A8B7	C0B56980	C05A3A24	C0A5F2B0	00A9FD0E
C2129A13	42170A02	C2B897C1	C21AE5B3	C2918DAF	00ACD694	C0749D04	C0A4884D	00270391
F0F67AF3	F57FAF04	431FB40A	425AAB0A	411437C4	4A802A1C	C0B9C0B4	FB849FDF	C02168A5
C0C93CAD	C06239C0	C0A8D2F2	C0A5EF93	C06F1B36	C216570F	421A0F67	22B67E7F	C21E1F76
C09D80D7	C06F1709	C0A07C91	C213D9EB	C290A1E0	F0F67AF3	F67AF440	432066D4	420E3347
44361B7F	C063A4E7	C01A1257	C0E5F766	403DC8E1	C0C5AFA0	0064AFCC	C093B947	00A0508F
C21A139A	421D170A	C2B46055	C2E16BFC	C291ACAD	C0E3A6E5	C0643EFC	C0A0508F	C290BCE6
F0F67AF3	F77FAF80	C2B1A037	425CD663	41175883	44C03139	C291770A	C2B21F35	C22A0F06
C0C9B56B	C0ACABA9	C092358E	409BA566	40AC2CAF	C21DCB92	4292170A	432E30CE	42925E55
C07F559F	C0635D5A	C0C65B1B	C2E1355E	C2902D4F	F0F67AF3	F0F67AF3	409932A4	C06A0E87
4491B8A8	C0A57F05	C02B3E49	C0B67677	C29105D6	C0C6A1E7	C0713917	C05DFAFE	C001AF8A
C221743F	42230A5C	C27F5F70	C235A1E7	411C298F	4A7119D2	C0A067FC	C0358FC8	C0B489C4
F057FAF4	F17FAF24	42434324	4254EECF	411C298F	4A7119D2	4226B7A0	C27C4AC4	C290B51B
C0CDA311	C0A55D9A	C0B2B976	C0B81B00	43A7F5B0	C22E1A0C	437E51A0	437E51A0	425E5E45

4490CEFF	C03F4933	C03FAA87	C04AE543	40865626	C0CFC4A5	C0413AB4	C079AE33	C0875811	4094808D
C22BA8A4	C42288C4	C22F9E89	C22F3353	C250A8A9	C0560D55A	C0534871	C0F1F6E2	C32C0025	C22F9A5F
F0676AF4	F57AF340	432E39AC	4260E9E5	4123950E	44047BD7	C08E0D3E	C09F7593	C09E972C	C465E49E
C0818901	C013DCD7	C0705762	C07F65F8	C08F05E6	C22C434E	422B1E66	C26D097E	C320AD0A	C230808D
C04A60C5	C04AC0CE	C0E7D86D	C23059A5	C23059A5	C0221149	F77AF644	432F421F	C461E27F	C129B9C5
C44A4F4B	C03065E2	C0525B12	C0221149	C035A02D	C00F0775	C035A5E3	C266E671	C276A972	44CA2522
C23FCAAA	C23080E5	C0771635	C2362641	C2502140	C03F2C4D	C04A840A	C0C6E17E	C23A5522	C26EE8FF
F0F676F5	F07AF340	43271010	4262C039	41E22A40	44A477A03	C04E472A	C05C29BE	C0861266	4085EAC4
C0D3F5E7	C0339847	C05C5C34	C0E61117	40D3C0D8	C233366F	422F75C0	C26FD8A4	C2393054	C29FC415
C03A2127	C0472351	C0FCE545	C233037A	C25E6851	F0F67AF5	F47AF540	C32695D0	4263ADE0	41373304
4A4SEHCE	C0C9C2D5	C06AF567	C073F723	40B64155	C0D495A4	C02F1CDA	C0510DF6	C0648GCC	40CDA57C
C2369599	423200AF	C26BF55A	C23008AA	C26F4D6F	C0257E25	C04A0DDE	C0F3A665	C23AEDC0	C2C0C2C2
F0F67AF5	F07AF040	C2304599	426A8340	414150FE	44A80720	C0CDD012	C06D61C6	C0685C0E	40E7CB90
C0DACCDA	C02ABCF7	C0471056	C05807D6	40E478C7	C233DDE7	4233FF6E	C267C4E0	C2407644	C25ED2AF
C01F2FA1	C0416FC6	C0F5F5DA	C23F5338	C2BC0E89	F0F77AFD	F47AF840	43207A04	426549D2	4140E41A
4A4CEPCA	C0CF8221	C07E56B9	C0504E6F	C08962FD	C0D45DFF	C0262487	C03C029F	C050FD8E	40E851AD
C23D058A	4235D524	C26379D0	4243DAE2	C2DDE46F	C0152616	C03F455E	C0F72797	C242EFEA	C23BA3F8
F0F77AF1	F27AF540	43261475	406608B5	415D2AC8	44AC6ECC	C0D11F02	C07CD75E	C04FDC59	40E6B13F
C0D407B7	C021F2B5	C033C2B8	C046AADC	40F12C56	C240DFD1	42377D68	C25E765E	C2473627	C28C680E
8F8570D2	C030B664	C0F63BA8	C246837E	C23A01AD	F0F77AF2	F37AF540	432C7CC5	426869A8	414EEC9E
4A4B9AD1	C0D1E17D	C08D8510	C0461491	C08DFD41	C02C0FCE	C01E08AA	C2555D0A	C03C1A36	40F6C614
C24E46B8	4238EE65	C2555183	C24A8530	C28B217C	BF1D8R93	C03C0DD0	C0F8CE1E	C24A0H2C	C28784E4
F0F77AF4	F07AF340	432D71C1	42675E0B	4181EA7A	4A4E5527	C0D1C83E	C08A4411	C0310684	40506C4D
C0D18E2E	C041762E	C015DDA7	C03157A8	40F9D052	C245752D	423A2594	C256D83A	C34D0D2D	C2388BFD
3F7A5E0D	C035557B	C0FBE86C	C24380F7	C28350FD	F0F77AF2	C0F77AF2	432E7563	4267F38A	41537070
44474010	C0DD02C4	C0902C34	C321C241	40936E3C	C0D003B6	C0174541	8F85059A	C02A6A8A	40FCB1AC
F074A82D	423E176E	C24E171D	C251250A	C283533E	41C5CC0E	C03A0D32	C03A0D32	C0F8239E	C25D35E5
F0F67AF0	F87F08D0	C32F6729	4263737A	419F407E	44A4A8A5	C0CF0A7E	C0957040	C0125864	405666AF
C0C0C070	C01A8F89	3F2C1657	C01B86AC	40FE834F	C24C4AF5	4326C18A	C241A17E	C25A4D14	42795A17
4015ACE0	C030AF5A	C0F07073	43530B9E	C26E2AC1	F1F17AF2	F37AF640	432051C3	4269F0A4	41A36B32
4A0F429A	C0C5C70E	C09A2F5A	8F8DAA0C	40955644	C0CHHA47	C01252D0	3F8CA23E	C0105702	40F553D0
C2A465F0	423C15E5	C2429C5E	C256E545	C25A4C74	402235A0	C03D0173	C0F66FA1	C255E0F2	C24C70D0
F1F47AF3	F27AF7A0	43113303	426557A5	419E2293	44944DC1	C0C805D6	C0E33E37	3FCA7801	40C50759
C0C929E2	C0109FA8	4014354F	8F83E60D	40FE25B3	C24A99B6	423C3199	C23C0938	C256F4D2	C21E86C5
402A521B	C0189B72	C0F5572B	C2555595	C21D7J85	F1F67AF1	F27AF840	4332CA8E	4263AF38	41522B43
4A49C59A	C0C4CF0E	C0A1A7C6	401C1A7B	40A105BF	C0C66AEA	8FF6F273	401F873D	3F5D048D	C0DFE8F5
C2A1E95	C26CF6F1	C2361C2D	C25A868A	407E310A	4031E8E5	C23C8510	C073A8EA	C252D8F1	C1A0DF8D
F1F67AF5	F77AF040	4332D791	4269F6CC	4182D688	446D9938	C08F5EFC	C0A46640	4028D645	40A49776
C0C3R33D	BFED2E0D	C0A4BF89	401D06FE	418FDA95	C248DA32	4235B582	C2306FE6	C25180BA	41886B24
40365927	C030H354	C0F1D8F5	C2A80BEC	4161F77A	F1F77AF2	F07AF340	43335972	426A2E3D	41734C8C
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