

DATA SET CATALOG #56

Lunar Orbiter Photo tape

66-073A-01H	1 tape
66-100A-01H	1 tape
67-008A-01H	1 tape
67-041A-01G	1 tape
67-075A-01G	1 tape

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

LUNAR ORBITER 1
REVISED PHOTO SUPPORT DATA ON TAPE

66-073A-01H

THIS DATA SET HAS BEEN RESTORED. THERE WAS ORIGINALLY ONE
7-TRACK, 800 BPI TAPE, 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 TAPE WAS CREATED ON A 1108 COMPUTER. THE
DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBER AND TIME
SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR004028	DS004028	D005151	1	08/18/66 - 11/18/66

LUNAR ORBITER 2
REVISED PHOTO SUPPORT DATA ON TAPE

66-100A-01H

THIS DATA SET HAS BEEN RESTORED. THERE WAS ORIGINALLY ONE
7-TRACK, 800 BPI TAPE, 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 TAPE WAS CREATED ON A 1108 COMPUTER. THE
DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBER AND TIME
SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR004029	DS004029	D005152	1	11/18/66 - 02/15/67

LUNAR ORBITER 4
REVISED PHOTO SUPPORT DATA ON TAPE

67-041A-01G

This data set has been restored. There was originally one 7-track, 800 BPI tape 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 tape was created on a 1108 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR004012	DS004012	D05154	1	05/11/67 - 08/06/67

LUNAR ORBITER 5
REVISED PHOTO SUPPORT DATA ON TAPE

67-075A-01G

This data set has been restored. There was originally one 7-track, 800 BPI tape 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 tape was created on a 1108 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR004013	DS004013	D005155	1	08/06/67 - 08/18/67

LUNAR ORBITER 3
REVISED PHOTO SUPPORT DATA ON TAPE

67-008A-01H

This data set has been restored. There was originally one 7-track, 800 BPI tape 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 tape was created on a 1108 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR004011	DS004011	D05153	1	02/15/67 - 05/11/67

LUNAR ORBITER PHOTO TAPE

1. Logical record is (1105) data words divided into 5 physical records of length 236, 256, 256, 256 and 96 words each.
Note: each physical record contains three control words.
2. Each ^{physical} record starts and ends with the same control word plus a check word before last control word.
3. Last logical record is a 'zero' record. One E.O.F. follows 'zero' record.
4. Binary tape.

INTERMEDIATE TAPE

BCD record of length 282 characters

EPIC TAPE FORMAT

<u>Record</u>	<u>DATA ELEMENT NAME</u>	<u>FORMAT</u>	<u>LOCATION IN REC.</u>
.	Mission No.	(BCD) I1	Bits 1-6
1	Frame No.	(BCD) I3	Bits 7-24
1	Trailing Zeros	(BCD) I2	Bits 25-36
2	Category Character Counts	BCI	Words 1-10
	<u>CATEGORY NO. 1 DATA</u>		<u>Characters</u>
3	Year	(BCD) I2	1-2
3	Month	(BCD) I2	3-4
3	Day	(BCD) I2	5-6
3	Hour	(BCD) I2	7-8
3	Minute	(BCD) I2	9-10
3	Seconds	(BCD) F5.2	11-15
3	S/C Altitude	(BCD) F7.2	16-22
3	S/C Altitude Rate	(BCD) F7.4	23-29
3	S/C Nadir Lat.	(BCD) F6.2	30-35
3	S/C Nadir Long.	(BCD) F7.2	36-42
3	S/C Tilt Angle	(BCD) F6.2	43-48
3	S/C Tilt Azimuth	(BCD) F6.2	49-54
3	Swing Angle	(BCD) F6.2	55-60
3	North Deviation Angle	(BCD) F6.2	61-66
3	Sun Azimuth at Principal Gnd. Point	(BCD) F6.2	67-72
3	Incidence Angle	(BCD) F6.2	73-78
3	Emission Angle	(BCD) F6.2	79-84

<u>Record</u>	<u>DATA ELEMENT NAME</u>	<u>FORMAT</u>	<u>LOCATION IN REC.</u>
			<u>Characters</u>
3	Phase Angle	(BCD) F6.2	85-90
3	Alpha	(BCD) F6.2	91-96
3	(Blanks)	(BCD)	97-105
3	Principal Point Lat.	(BCD) F6.2	106-111
3	Principal Point Long.	(BCD) F7.2	112-118
3	(Blanks)	(BCD)	119-126
4	<u>CATEGORY NO. 2 DATA</u>		
4	Low Resolution Cor. A. Lat.	(BCD) F6.2	1-6
4	Low Res. Corner A Long.	(BCD) F7.2	7-13
4	Low Res. Corner B Lat.	(BCD) F6.2	14-19
4	Low Res. Corner B Long.	(BCD) 7.2	20-26
4	Low Res. Corner C Lat.	(BCD) F6.2	27-32
4	Low Res. Corner C Long.	(BCD) F7.2	33-39
4	Low Res. Corner D Lat.	(BCD) F6.2	40-45
4	Low Res. Corner D Long.	(BCD) F7.2	46-52
4	Low Res. Side AB Length	(BCD) F5.0	53-57
4	Low Res. Side BC Length	(BCD) 5.0	58-62
4	Low Res. Side CD Length	(BCD) 5.0	63-67
4	Low Res. Side DA Length	(BCD) F5.0	68-72
4	Low Res Scale Factor	(BCD) F4.2	73-76
4	Low Res. Tilt Distance	(BCD) F5.2	77-81

<u>Record</u>	<u>DATA ELEMENT NAME</u>	<u>FORMAT</u>	<u>LOCATION IN REC.</u>
5	<u>CATEGORY NO. 3 DATA</u>		<u>CHARACTERS</u>
5	High Res. Corner A Lat.	(BCD) F6.2	1-6
5	High Res. Corner A Long.	(BCD) F7.2	7-13
5	High Res. Corner B Lat.	(BCD) F6.2	14-19
5	High Res. Corner B Long.	(BCD) F7.2	20-26
5	High Res. Corner C Lat.	(BCD) F6.2	27-32
5	High Res. Corner C Long.	(BCD) F7.2	33-39
5	High Res. Corner D Lat.	(BCD) F6.2	40-45
5	High Res. Corner D Long.	(BCD) F7.2	46-52
5	High Res. Side AB Length	(BCD) F5.0	53-57
5	High Res. Side BC Length	(BCD) F5.0	58-62
5	High Res. Side CD Length	(BCD) F5.0	63-67
5	High Res. Side DA Length	(BCD) F5.0	68-72
5	High Res. Scale Factor	(BCD) F4.2	73-76
5	High Res. Tilt Distance	(BCD) F5.2	77-81

4.2.1.2 Lunar Orbiter Photo Tape

- Records are constant length - 1105 words
- Units are kilometers, seconds, and degrees unless specified otherwise below.
- A "zero" record follows last data record.
- One EOF follows "zero" record.
- Tape generated by FORTRAN V binary write.
- Data is single precision floating point unless specified otherwise below.

Record Format

001 Mission number
002 Orbit Number
003 Frame Number

004
005 "HIGH RESOLUTION" , BCD
006
007 year, mod 1900
008 month
009 day (GMT)
010 hour
011 minute
012 second

013
014
015 spacecraft state ($x, y, z, \dot{x}, \dot{y}, \dot{z}$), Selenocentric 1950 J
016
017
018

019	
020	
021	spacecraft state ($x, y, z, \dot{x}, \dot{y}, \dot{z}$), Selenographic
022	
023	
024	
025	spacecraft nadir longitude
026	spacecraft nadir latitude
027	camera axis intercept longitude
028	camera axis intercept latitude
029	spacecraft radius
030	spacecraft altitude
031	altitude rate
032	horizontal velocity
033	time from perapsis
034	true anomaly
035	tilt azimuth
036	sun angle at nadir
037	sun azimuth at principal ground point
038	sun arc at nadir
039	distance to target, longitude
040	distance to target, latitude
041	arc length to target, longitude
042	arc length to target, latitude
043	forward overlap ratio, %
044	time between photos
045	scale factor, m/km
046	image motion compensation (V/H) rad/sec
047	emission angle
048	phase angle

THE BOEING COMPANY

NUMBER D2-121387-1
REV 1TR

049	tilt angle
050	alpha
051	tilt distance, mm
052	swing angle
053	incidence angle
054	north deviation angle
055	resolution constant, meter
056	
057	direction cosines to target
058	
059	magnitude of spacecraft to target vector
060	
061	direction cosines of camera axis
062	
063	magnitude of camera axis (spacecraft to surface)
064	sun elevation at principal ground point
065	camera axis cone angle
066	camera axis clock angle
067	film platen cone angle
068	film platen clock angle
069	side angular field of view
070	forward angular field of view
071	focal length, meters
072	resolution constant,
073	actual photo length, mm
074	actual photo width, mm
075	data distance between point of origin (principal point of auto-collimation) of input coordinate system and center point of picture, mm.

USE FOR TYPEWRITING MATERIAL ONLY

FORM 10-62

NUMBER D2-121387-1
REV LIR

USE FOR WRITTEN MATERIAL ONLY

076	
077	
078	zero
079	
080	
081	
082	"LOW RESOLUTION" BCD
083	
084	year, mod 1900
085	month
086	day
087	hour
088	minute (GMT)
089	second
090	
091	
092	spacecraft state $(x, y, z, \dot{x}, \dot{y}, \dot{z})$, Selenocentric 1950.0
093	
094	
095	
096	
097	
098	spacecraft state $(x, y, z, \dot{x}, \dot{y}, \dot{z})$, Selenographic
099	
100	
101	

SHEET

102	spacecraft nadir longitude
103	spacecraft nadir latitude
104	camera axis intercept longitude
105	camera axis intercept latitude
106	spacecraft radius
107	spacecraft altitude
108	altitude rate
109	horizontal velocity
110	time from periopsis
111	true anomaly
112	tilt azimuth
113	sun angle at nadir
114	sun azimuth at principal ground point
115	sun arc at nadir
116	distance to target, longitude
117	distance to target, latitude
118	arc length to target, longitude
119	arc length to target, latitude
120	forward overlap ratio, %
121	time between photos
122	scale factor, m/km
123	image motion compensation (N/H), rad/sec
124	emission angle
125	phase angle
126	tilt angle
127	alpha
128	tilt distance, mm
129	swing angle

130	incidence angle
131	azimuth deviation angle
132	resolution constant, meter
133	
134	direction cosines to target, selenographic
135	
136	magnitude of spacecraft to target vector
137	
138	direction cosines of camera axis, selenographic
139	
140	magnitude of camera axis (spacecraft to surface)
141	sun elevation at principal ground point
142	camera axis cone angle
143	camera axis clock angle
144	film plane cone angle
145	film plane clock angle
146	side angular field of view
147	forward angular field of view
148	focal length, meters
149	resolution constant, m/km
150	actual photo length, mm
151	actual photo width, mm
152	data distance between point of origin (principal point of auto-collimation) of input coordinate system and center point of picture, mm.
153	
154	
155	zero
156	
157	

158	longitude	high resolution corner 1
159	latitude	
160	flag *	
161	longitude	high resolution corner 2
162	latitude	
163	flag *	
164	longitude	high resolution corner 3
165	latitude	
166	flag *	
167	longitude	high resolution corner 4
168	latitude	
169	flag *	
170	distance between high resolution corners 1 and 2	
171	distance between high resolution corners 2 and 3	
172	distance between high resolution corners 3 and 4	
173	distance between high resolution corners 4 and 1	
174	longitude	low resolution corner 1
175	latitude	
176	flag *	
177	longitude	low resolution corner 2
178	latitude	
179	flag *	
180	longitude	low resolution corner 3
181	latitude	
182	flag *	
183	longitude	low resolution corner 4
184	latitude	
185	flag *	

* flag = 0. Indicates that corner of photograph is taken from
 flag = 1. Indicates that corner is off image. But values of longitude
 and latitude are for left edge of photograph.

186 distance between low resolution corners 1 and 2
187 distance between low resolution corners 2 and 3
188 distance between low resolution corners 3 and 4
189 distance between low resolution corners 4 and 1

190 index
191 x
192 y
193 longitude
194 latitude

high resolution notch point 1A

2A
7A
8A
.
.
283A

665 index
666 x
667 y
668 longitude
669 latitude

high resolution notch point 284 A

670 index
671 x
672 y
673 longitude
674 latitude

low resolution notch point 1A

2A
.
.
.
83A

1055 index
1056 x
1057 y
1058 longitude
1059 latitude

low resolution notch point 84

1090	moon's local radius
1091	ephemeris time - universal time conversion
1092	sun sensor cone angle
1093	sun sensor clock angle
1094	Canopus sensor cone angle
1095	Canopus sensor clock angle
1096	Canopus right ascension
1097	Canopus declination
1098	
1099	maneuver axes indicators
1100	
1101	
1102	maneuver angles
1103	
1104	longitude of mission design point target
1105	latitude of mission design point target

NOT FOR TYPE DESIGN MATERIAL ONLY

FILE 0001 REC 0001 CH 1536

66-073A

8/19/65

0001	000375000000	201400000000	205540000000	203500000000	151614150527	12302421323
0049	204400000000	205400000000	204700000000	206520000000	206516435715	211663436071
0097	576106747061	177725375710	600371002347	210956036336	213746166011	206673347250
0145	600174730734	207522375631	201640055253	207517772351	201741051107	213780446451
0193	201714515450	567131030475	211536163666	211444045514	207417125767	207544451101
0241	201640055253	567272161327	206611760401	000000000000	000000000000	170553302634
0289	206757024244	203526607390	203540674766	206710110216	237615062311	207421520321
0337	577265106243	577206251742	601157137311	211433167234	606046521474	577000014734
0385	205531276244	207670030447	207550153427	205500142234	207546767636	203513310550
0433	173543420626	210665765605	206667727025	207666000000	000000000000	000000000000
0481	000000000000	212434052712	302421323116	242305050505	207410000000	204400000000
0529	206520000000	206617411326	211663264210	213661571335	212611462210	576106742462
0577	210555533455	213746167163	206573064140	576075642031	175626355464	600174726614
0625	207520007315	201740553362	213750445261	210654452610	602266644034	201714516576
0673	211444052572	207417112462	207544450234	214400566567	574250223577	201637606175
0721	000000000000	000000000000	165576411371	172414567322	203601467352	206767024244
0769	203737501725	207615106403	207421503417	211533251103	206442301135	577265253775
0817	211433067430	606046521475	577000014736	171677062003	210656570600	206531361704
0865	205500142234	207546767636	206457310550	206541513615	175507620455	176522674002
0913	206402631463	000000000000	000000000000	000000000000	000000000000	000000000000
0961	000000000000	207520074070	200425720253	000000000000	000000000000	000000000000
1009	202636354306	000000000000	207473101155	205476761761	207476101527	205500737531
1057	000000000000	207526751545	576212163444	000000000000	207502767155	577346407365
1105	203542226452	000000000000	210536060033	210453332336	210571146651	210467761417
1153	171507540000	207521207553	201716371475	202402000000	572110050752	171507540000
1201	203700000000	205667727025	171507540000	207521207553	201716371475	204400000000
1249	207516544121	201763726415	206440000000	205667727025	171507540000	207521207553
1297	572110050752	171507540000	207516544121	201763726415	205460000000	205667727025
1345	201716371475	205500000000	572110050752	171507540000	207516544121	201763726415
1393	171507540000	207521207553	201716371475	205640000000	572110050752	171507540000
1441	205667727025	205667727025	171507540000	207521207553	201716371475	206400000000
1489	207516544121	201763726415	206450000000	205667727025	171507540000	207521207553
0001	000375000000	201716371475	206460000000	572110050752	171507540000	207516544121
0049	205667727025	171507540000	207521207553	201716371475	206540000000	572110050752
0097	201763726415	206610000000	205667727025	171507540000	207521207553	201716371475
0145	171507540000	207516544121	201763726415	206672000000	205667727025	171507540000
0193	206700000000	572110050752	171507540000	207516544121	201763726415	206750000000
0241	207521207553	201716371475	206760000000	572110050752	171507540000	207516544121
0289	205667727025	171507540000	207521207553	201716371475	207420000000	572110050752
0337	201763726415	207444200000	205667727025	171507540000	207521207553	201716371475
0385	171507540000	207516544121	201763726415	207474000000	205667727025	171507540000
0433	207500000000	572110050752	171507540000	207516544121	201763726415	207524000000
0481	207521207553	201716371475	207530000000	572110050752	171507540000	207516544121
0529	205667727025	171507540000	207521207553	201716371475	207500000000	572110050752
0577	201763726415	207604000000	205667727025	171507540000	207521207553	201716371475
0625	171507540000	207516544121	201763726415	207634000000	205667727025	171507540000
0673	207640000000	572110050752	171507540000	207516544121	201763726415	207640000000
0721	207521207553	201716371475	207670000000	572110050752	171507540000	207516544121
0769	205667727025	171507540000	207521207553	201716371475	207720000000	572110050752
0817	201763726415	207744000000	205667727025	171507540000	207521207553	201716371475
0865	171507540000	207516544121	201763726415	207740000000	205667727025	171507540000
0913	210420000000	572110050752	171507540000	207516544121	201763726415	210420000000
0961	207521207553	201716371475	210414000000	572110050752	171507540000	207516544121
1009	205667727025	171507540000	207521207553	201716371475	210430000000	572110050752
1057	201763726415	210442000000	205667727025	171507540000	207521207553	201716371475
1105	171507540000	207516544121	201763726415	210456000000	205667727025	171507540000
1153	210460000000	572110050752	171507540000	207516544121	201763726415	210472000000
1201	207521207553	201716371475	210474000000	572110050752	171507540000	207516544121
1249	205667727025	171507540000	207521207553	201716371475	210510000000	572110050752
1297	201763726415	210522000000	205667727025	171507540000	207521207553	201716371475
1345	171507540000	207516544121	201763726415	210536000000	205667727025	171507540000

FILE 0001 REC 0002 CH 1536

66-073A-01H

T-190

05540000000	20350000000	151614150527	123024213231	162423050505	207410000000
04700000000	20652000000	226616435715	211663436074	213661562310	212611472120
00371002347	210564036336	213746166011	205673347255	576075643037	175607007070
01640055253	207517772351	201741051107	213750446453	210664464530	602266506077
11534616366	211444045514	207417125767	207544451107	214400601406	574247734617
06611760404	00000000000	000000000000	170553302634	172414553672	203602011070
03540674766	206710110216	227615062311	207421520327	211533251236	203460531412
01157137311	211433157234	606046621474	577000014736	171677961703	210665605030
07550154827	205502142234	207546767636	203513310550	205506375747	200467314611
06667727025	207666000000	000000000000	000000000000	000000000000	000000000000
02421323116	242305050505	207410000000	204400000000	205400000000	204700000000
11663264210	213661571335	212611462210	576106742462	177725267145	600370741730
06673064140	576075642031	175626355464	600174726614	207522411170	201637606175
13780445261	210654452619	602266644034	201714516576	567131223452	211534621562
07564450214	214400566567	574250223577	201637606175	567272436522	206611522232
55576411371	172414567322	203601467352	206767024244	203526316204	203540357334
07421503417	211533251103	206442301135	577265253775	577206114120	601157247077
07000014736	171677062003	210666570600	205531361704	207670030447	207550154427
06457310550	205541513615	175507620455	176522674002	207403753412	206667727025
00000000000	000000000000	000000000000	000000000000	207522327176	202612045552
0425720253	000000000000	207515424706	200532413171	000000000000	207517661173
7473101155	205476741761	207476101527	205500737531	207534155432	203412621336
6212163444	000000000000	207502767155	577346407365	000000000000	207510220100
0536060033	210463312336	210571146651	210467761417	201400000000	205667727025
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