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4. CATALOG MATERIALS.

1. Introduction:

The documentation for this data set was originally on paper kept in NSSDC's Data Set Catalogs (DSCs). The offline tape datasets have now been migrated from the original magnetic tape to magnetic disk (starting in mid-2004). Accordingly, statements in the format descriptions that address such tape relevant factors as blocking and but density are no longer applicable. The paper documentation in the Data Set Catalogs have been scanned and made into digital images of the pages, the collected into a single PDF file for each Data Set Catalog.

The inventory information in these DSCs is current as of July 1, 2004. But this inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system, and the user should go to that interface (JIN) if further information existing in the DSCs is now not needed for locating data files, but we did not go to the trouble of removing that inventory information.

2. CHANGE LOG

Version	Date	Person	Page	Description of Change
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01				
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3. LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM:

[NOTE: ANY OF THE INFORMATION FIELDS MIGHT BE BLANK.]

[THE “MATERIALS FOR DISTRIBUTION” FIELD IS HERE CALLED JUST “MATERIALS”]

“Remarks” for spacecraft SCNAME1”:

<http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=1977-102A--remark-->

“Materials” for spacecraft SCNAME1”:

<http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=1977-102A--mat-->

“Remarks” for SCNAME1 experiment EXNAME1:

<http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=1977-102A&ex=09--remark-->

“Materials” for SCNAME experiment EXNAME1:

<http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=1977-102&ex=09--mat-->

“Remarks” for EXNAME1 data set DSNAME1:

<http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00677--remark-->

“Materials” for EXNAME1 data set DSNAME1:

<http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00677--mat-->

“Remarks” for EXNAME1 data set DSNAME2:

<http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00677--remark-->

“Materials” for EXNAME1 data set DSNAME2:

<http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00677--mat-->

“Remarks” for EXNAME1 data set DSNAME3:

“Materials” for EXNAME1 data set DSNAME3:

“Remarks” for SCNAME1 experiment EXNAME2:

“Materials” for SCNAME1 experiment EXNAME2:

“Remarks” for EXNAME2 data set DSNAME1:

“Materials” for EXNAME2 data set DSNAME1:

“Remarks” for EXNAME2 data set DSNAME2:

“Materials” for EXNAME2 data set DSNAME2:

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

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 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 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 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 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 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.OF. 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>Word</u>	<u>DATA ELEMENT NAME</u>	<u>FORMAT</u>	<u>LOCATION IN REC.</u> <u>Character</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>
	<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	"HIGH RESOLUTION" , BCD	(GMT)	
005			
006			
007			year, mod 1900
008			month
009			day
010	hour		
011	minute		
012	second		
013	spacecraft state (x, y, z, \dot{x} , \dot{y} , \dot{z}), Selenocentric 1950 D		
014			
015			
016			
017			
018			

100% FOR EXPERIMENTAL MATERIAL ONLY
 100% FOR EXPERIMENTAL MATERIAL ONLY
 100% FOR EXPERIMENTAL MATERIAL ONLY

- 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

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.

- 076
- 077
- 078
- 079
- 080
- 081
- 082
- 083
- 084
- 085
- 086
- 087
- 088
- 089
- 090
- 091
- 092
- 093
- 094
- 095
- 096
- 097
- 098
- 099
- 100
- 101

zero

"LOW RESOLUTION" BCD

year, mod 1900
 month
 day
 hour
 minute
 second

(GMT)

spacecraft state $(x, y, z, \dot{x}, \dot{y}, \dot{z})$, Selenocentric 1950.0

spacecraft state $(x, y, z, \dot{x}, \dot{y}, \dot{z})$, Selenographic

USE FOR WRITTEN MATERIAL ONLY

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 periastris
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 north 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 plate cone angle
- 145 film plate 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

USE FOR TYPEWRITING MATERIAL ONLY

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

* flag = 0. indicates that corner of photograph is lunar face.
 flag = 1. indicates that corner is off lunar face. 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 high resolution notch point 1A
193 longitude
194 latitude

2A
7A
8A
.
.
283A

665 index
666 x
667 y high resolution notch point 284 A
668 longitude
669 latitude

670 index
671 x
672 y low resolution notch point 1A
673 longitude
674 latitude

2A
.
.
83A

1055 index
1056 x
1057 y low resolution notch point 84
1058 longitude
1059 latitude

USE FOR WATER METER ONLY

- 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	000375000001	201400000000	205540000000	203500000000	151614150527	12302421323
0049	204400000000	205400000000	204700000000	206520000000	206616435715	21166343607
0097	576106747061	177725375710	600371002347	210956036330	213746166011	20667334725
0145	600174730736	207522375631	201640055253	207517772351	201741051107	21378044645
0193	201714515450	567131030475	21153616366	211444045516	207417125707	20754445110
0241	201640055253	567272161327	206611760407	000000000000	000000000000	170553302634
0289	206757024244	203526607390	203540674766	206710110216	207615062311	207421520327
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	204420000000
0529	206520000000	206617411326	211663264210	213661571335	212611462210	576106742462
0577	210555533455	213746167163	206573064140	576075642031	175605355464	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	200532413171
1057	000000000000	207526751545	576212163444	000000000000	207502767155	577346407365
1105	203542226452	000000000000	210536060033	210453332336	210571146651	210467761417
1153	171507540000	207521207553	201716371475	202400000000	572110050752	171507540000
1201	203700000000	205667727025	171507540000	207521207553	201716371475	204400000000
1249	207516544121	201763726415	206540000000	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	205760000000	205667727025	171507540000	207521207553	201716371475	206600000000
1489	207516544121	201763726415	206450000000	205667727025	171507540000	207521207553

FILE 0001 REC 0002 CH 1536

0001	000375000002	201716371475	206460000000	572110050752	171507540000	207516544121
0049	205667727025	171507540000	207521207553	201716371475	206540000000	572110050752
0097	201763726415	206610000000	205667727025	171507540000	207521207553	201716371475
0145	171507540000	207516544121	201763726415	206670000000	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	207444000000	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	207600000000	205667727025	171507540000	207521207553	201716371475
0625	171507540000	207516544121	201763726415	207630000000	205667727025	171507540000
0673	207640000000	572110050752	171507540000	207516544121	201763726415	207664000000
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	210470000000	572110050752	171507540000	207516544121
1249	205667727025	171507540000	207521207553	201716371475	210510000000	572110050752
1297	201763726415	210522000000	205667727025	171507540000	207521207553	201716371475
1345	171507540000	207516544121	201763726415	210536000000	205667727025	171507540000

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0554000000	2035000000	151614150527	123024213231	162423050505	207410000000
0470000000	2065200000	205616435715	211663436074	213661562310	212611472120
00371002347	210546036336	213746166011	205673347255	576075643037	175607007070
01640055253	207517772351	201741051107	213750446453	210664464530	602266506077
11534516366	211444045514	207417125767	207544451107	214400601406	574247734617
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LITTON-REDA (CASA POLICIA ASSOCIATION) S. S.

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