

DATA SET CATALOG # 39

LUNAR ORBITER II Photo support data
LUNAR ORBITER III Photo support data
66-100A-01G 1tape
67-008A-01G 1tape

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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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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 2

CORR PHOTO SUPPORT DATA ON TAPE

66-100A-01G

THIS DATA SET HAS BEEN RESTORED. THERE WAS ORIGINALLY ONE 7-TRACK, 556 BPI TAPE WRITTEN IN BCD. THERE IS ONE RESTORED TAPE WRITTEN IN ASCII. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS CREATED ON AN IBM 7094 COMPUTER AND WAS RESTORED ON AN IBM 9021 COMPUTER. THE DR AND THE DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIME TIME SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR005370	DS005370	D001289	1	11/18/66 - 11/25/66

LUNAR ORBITER 1

CORR PHOTO SUPPORT DATA ON TAPE

67-008A-01G

This data set has been restored. There was originally one 7-track, 556 BPI tape written in BCD. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on an IBM 7094 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR005909	DS005909	D001290	1	02/15/67 - 02/23/67

MEMORY MAP

SYSTEM 00000 THRU 03765

FILE BLOCK ORIGIN 03765

NUMBER OF FILES - 12

1. UAS
2. LA6
3. UA7
4. LA8
5. UA9
6. UB5
7. UB6
8. U17
9. UB8
10. UB9
11. UNIT02
12. UNIT03

FILE LIST ORIGIN 04206

PRE-EXECUTION INITIALIZATION 04236

CALL ON OBJECT PROGRAM 04275

OBJECT PROGRAM 04302 THRU 30251

1.	DECK	'RECSTR'	*	04302
2.	DECK	'TAPC2'	*	04445
3.	DECK	'CPYF2'	*	04565
4.	DECK	'FIXIT'	*	07113
5.	DECK	'WRIT4'		07144
6.	SUBR	'IBSYS'		00000
7.	SUBR	'IOEX'		00702
8.	SUBR	'JBCON'		03720
9.	SUBR	'LXCON'		11650
10.	SUBR	'IODEF'		12323
11.	SUBR	'LXSL'		12545
12.	SUBR	'FPTRP'		13023
13.	SUBR	'XIT'		13233
14.	SUBR	'FXEM'		13234
15.	SUBR	'FDUT'		13606
16.	SUBR	'FCNV'		14150
17.	SUBR	'FIOS'		16644
18.	SUBR	'FIQH'		17072
19.	SUBR	'FSEL'		20133
20.	SUBR	'FWRD'		20353
21.	SUBR	'FRDD'		20402
22.	SUBR	'FPRN'		20474
23.	SUBR	'UN02'		20571
24.	SUBR	'UN03'		20572
25.	SUBR	'FDMP'		20576
26.	SUBR	'FSLDD'		22056

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3765

LUNAR ORBITER II
RECORDS DELETED
66-100A-0186
D-01289

0251

27.	SUBR 'FSLD'	22105
28.	SUBR 'IDCS'	22141
29.	SUBR 'IDCSM'	30243
30.	SUBR 'IDCSB'	30243
31.	SUBR '//'	76026

(* - INSERTIONS OR DELETIONS MADE IN THIS DECK)

INPUT - OUTPUT BUFFERS

30252 THRU 75747

UNUSED CORE

75750 THRU 76025

RECORD NUMBER 000186 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000187 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000188 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000189 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000190 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000191 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000192 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000193 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000255 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000256 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000257 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000258 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000259 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000260 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000261 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000262 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000324 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000325 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000326 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000327 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000328 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000329 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000330 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000331 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 000393 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

02/14/66

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THRU 75747

THRU 76025

RECORD HAS BEEN DELETED.

RECORD NUMBER 003101 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003102 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003103 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003104 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003105 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003150 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003161 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003162 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003163 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003164 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003165 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003166 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003167 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003330 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003331 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003332 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003333 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003334 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003335 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003336 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003337 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003413 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003414 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003415 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003416 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003417 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003418 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003419 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003420 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003511 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003512 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003513 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

RECORD NUMBER 003514 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

U.S. GOVERNMENT PRINTING OFFICE: 1963 O 270 976

RECORD NUMBER 003515 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003516 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003517 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003518 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003546 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003547 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003548 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003549 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003550 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003551 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003552 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003553 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003502 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003603 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003504 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003605 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003506 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003607 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003508 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003609 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003637 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003638 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003639 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003640 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003541 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003642 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003543 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003644 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

LETED.

FILE 1 HAS A MAXIMUM OF 200 AND A MINIMUM OF 3 WORDS PER RECORD.

FILE 1 HAS 3644 RECORDS.

WORDS PER RECORD.

1 * EVALUATION OF SITE P-1 PHOTOS (OD NO. 9016)

GM=4902.78

J20= .2048E-3

J30= -.9049E-4

J40= -.2055E-4

C21= -.1398E-4

C31= .2358E-4

C41= -.7139E-5

C22= .2445E-4

C32= .3840E-5

C42= .2224E-5

C33= .1888E-5

C43= .1073E-5

C44= -.2428E-7

S21= -.6512E-5

S31= .1555E-4

S41= -.9304E-5

S22= -.3747E-5

S32= .1339E-4

S42= .2928E-5

S33= -.7343E-6

S43= .6450E-6

S44= -.3439E-6

TRANST=

1.,66.,11.,18.,15.,23.,0.

TRANSF&2=

-1511.8122,664.12508,427.15640,-.74324090,-1.4473890,-0.99638919

ORFIN=1.

ARB=1.

ORNUM= 52.

BIG=52.,1.,1.,1.,0.,16.,4.,36.917,4.167,0.

1.,3.,2.

14

D-01289

REC	1. LENGTH	90
REC	2. LENGTH	90
REC	3. LENGTH	90
REC	4. LENGTH	90
REC	5. LENGTH	90
REC	6. LENGTH	90
REC	7. LENGTH	90
REC	8. LENGTH	90
REC	9. LENGTH	90
REC	10. LENGTH	90
REC	11. LENGTH	90
REC	12. LENGTH	90
REC	13. LENGTH	90
REC	14. LENGTH	90
REC	15. LENGTH	90
REC	16. LENGTH	90
REC	17. LENGTH	90
REC	18. LENGTH	90
REC	19. LENGTH	90
REC	20. LENGTH	90
REC	21. LENGTH	90
REC	22. LENGTH	90
REC	23. LENGTH	90
REC	24. LENGTH	90
REC	25. LENGTH	90
REC	26. LENGTH	90
REC	27. LENGTH	90
REC	28. LENGTH	90
REC	29. LENGTH	90
REC	30. LENGTH	90
REC	31. LENGTH	90
REC	32. LENGTH	90

5.24.9.25.2.81

66.11.18.15.24.53.0

66.11.18.15.24.55.1

66.11.18.15.24.57.2

66.11.18.15.24.59.3

66.11.18.15.25.01.5

66.11.18.15.25.03.6

66.11.18.15.25.05.7

66.11.18.15.25.07.8

66.11.18.15.25.09.9

66.11.18.15.25.12.0

66.11.18.15.25.14.1

REC	33. LENGTH	90
REC	34. LENGTH	90
REC	35. LENGTH	90
REC	36. LENGTH	90
REC	37. LENGTH	90
REC	38. LENGTH	90
REC	39. LENGTH	90
REC	40. LENGTH	90
REC	41. LENGTH	90
REC	42. LENGTH	90
REC	43. LENGTH	90
REC	44. LENGTH	90

* PHOTO FRAME NUMBER 1 OF 1 *
 YEAR MONTH DAY HOUR
 GNT 66 11 25 21 12 53.499 OLD
 * -58.7475052 DEG LATITUDE OF NADIR PCINT = 3.5074118
 INTERSECT = -58.0298700 DEG LATI OF CAMERA AXIS INTERSECT = 8
 RADIUS = 1788.7253794 KM SPACECRAFT ALTITUDE
 N ALTITUDE RATE = -0.0656587 KM/SEC TIME FROM PERIAPSIS
 SEC HORIZONTAL VELOCITY = 1.9116524 KM/SEC TRUE ANOMALY
 1782810 DEG SCALE FACTOR (HIGH) = 0.0051972 H/KM TILT D
 = 1183.5690513 KM SCALE FACTOR (LOW) = 0.0006416 H/KM
 = 155.2221718 KM

IMAGE MOTION COMPENSATION (V/M) = 0.0162899 RAD/SEC SPINNG ANGLE
 215 DEG EMISSION ANGLE = 66.1751308 DEG INCIDENCE
 80.5154037 DEG PHASE ANGLE = 95.5307312 DEG NO
 = 331.3376274 DEG TILT ANGLE = 62.7338605 DEG
 = 2.5469453 NTR TILT AZIMUTH = 11.954
 AT PRINCIPAL GND PT = 51.6159010 DEG SUP ANGLE AT NADIR
 ARC AT NADIR = 2461.8132629 KM LONGITUDE DISTANCE TO TARG
 LATITUDE DISTANCE TO TARGET = -3.8595882 DEG LONGITUDE ARC LENG
 274 KM LATITUDE ARC LENGTH TO TARGET = -117.0821266 KM FORWARD DV
 0. PCT SIDE OVERLAP RATIO = 0. PCT T1
 = 0. SEC ALPHA = -26.8701391
 X Y Z

DIRECTION COSINES TO TARGET -0.29791883 0.37770299
 27132 CAMERA AXIS -0.10781479 0.53254183
 117.37075043 C1 0.02634278 0.42
 5 212.71678815 C2 -0.16423829
 .72780575 85.46329498 C3 -0.238368
 0.74683475 85.54618105 C4
 45673 0.92315066 214.18410492 0 X
 Z X DOT Y DOT Z DOT STATE VECTOR -15
 4 285.0094261 -0.5398346 -1.5132136 -1.0380222 (1950.0)
 LONG -57.7688 DEG LATI 11.2193 DEG LATI 4.5199 DEG
 LONG -57.0112 DEG LONG -
 = 2.4.17824 KM * LATI 10.0501 DEG

(1) (2)
 135.87136 KM (2)
 (1) (2) LOW RESOLUTION
 43.04951 KM 19.00789 KM HIGH RESOLUTION
 (4) (3) * 71.38657 KM
 LONG -57.6206 DEG LONG -58.4118 DEG
 LATI 10.2309 DEG LATI 5.7770 DEG LO
 ONG -59.1564 DEG LATI 13.4538 DEG LATI 5.1409 DEG

RECORD NUMBER 003270 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DEL
 RECORD NUMBER 003271 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DEL
 RECORD NUMBER 003272 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DEL
 RECORD NUMBER 003273 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DEL
 RECORD NUMBER 003274 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DEL
 RECORD NUMBER 003275 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DEL
 RECORD NUMBER 003276 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DEL

REC 1, LENGTH 1128

MINUTE SECOND
ITUDE OF NADIR POINT
LONG OF CAMERA AXIS
36858 DEG SPACECRAFT
50.6363831 KM NEA
= -127.3699131
= 352.

RANGE (HIGH)
SLT DISTANCE (LOW)

= 179.1317 REC 2, LENGTH 1194

LE
DEVIATION ANGLE
RESOLUTION CONSTANT
9 DEG SUN AZIMUTH
1.1531677 DEG SUN
= 0.2524948 DEG
TO TARGET = 7.6595
AP RATIO =
BETWEEN PHOTOS
G. 0
MAGNITUDE (KM)

7668971 129.329 REC 3, LENGTH 1200
0.83950888

229 0.9041216
0.66582625 0
0.62082066

4778748 0.381

Y
2250214 487.564827
0LONG -53.9832 DEG

1570 DEG
LATI 5.7186 DEG

REC 4, LENGTH 1068

190.69892 KM
124 KM

(3)

137.14801 KM *

*
-60.0020 DEG L

ED. REC 5, LENGTH 84

ED. REC 6, LENGTH 84

ED. REC 7, LENGTH 84

ED. REC 8, LENGTH 84

ED. REC 9, LENGTH 84

ED. REC 10, LENGTH 84

ED. REC 11, LENGTH 84

RECORD NUMBER 003277 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003278 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.
RECORD NUMBER 003279 CONTAINED A PARITY ERROR. THIS RECORD HAS BEEN DELETED.

TED.

REC 12, LENGTH 84

TED.

REC 13, LENGTH 84

TED.

REC 14, LENGTH 84