

DATA SET CATALOG #114

Mariner 6 & 7 Surface T.V. Camera Data

69-014A-01 J	2	tapes
69-014A-01 K	2	tapes
69-014A-01 L	4	tapes
69-030A-01 J	3	tapes
69-030A-01 K	3	tapes
69-030A-01 L	7	tapes

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

MARINER 6 & 7

SURFACE TV CAMERA DATA

69-014A-01J, K, L

69-030A-01J, K, L

THESE DATA SETS HAVE BEEN RESTORED. THERE ARE 3 MARINER 6 AND 3 MARINER 7 DATA SETS. THE ORIGINAL TAPES WERE 7-TRACK, 800 BPI, WRITTEN IN BINARY. THE RESTORED DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI.

DATA SET 69-014A-01J CONTAINED TWO ORIGINAL TAPES AND ONE RESTORED TAPE, DATA SET 69-014A-01K CONTAINED TWO ORIGINAL TAPES AND ONE RESTORED TAPE AND 69-014A-01L CONTAINED FOUR ORIGINAL TAPES (SHARING THE LAST TAPE WITH MARINER 7, 69-030A-01L) AND ONE RESTORED TAPE. DATA SET 69-030A-01J CONTAINED THREE ORIGINAL TAPES AND ONE RESTORED TAPE, DATA SET 69-030A-01K CONTAINED THREE ORIGINAL TAPES AND ONE RESTORED TAPE, AND DATA SET 69-030A-01L CONTAINED SEVEN ORIGINAL TAPES (SHARING THE FIRST TAPE WITH DATA SET MARINER 6, 69-014A-01L) AND TWO RESTORED TAPES. ALL ORIGINAL TAPES WERE CREATED ON AN IBM 360 COMPUTER AND THE TAPES FOR DATA SETS MARINER 6 & 7, '01J' AND '01K' WERE RESTORED ON AN IBM 9021 COMPUTER. DATA SETS MARINER 6 & 7, '01L' WERE RESTORED ON THE MRS SYSTEM.

THE ORIGINAL TAPES CONTAIN BETWEEN 5 AND 14 DATA FILES. EACH FILE OF THE TAPES CONSISTS OF A SINGLE TV PICTURE WITH EACH PHYSICAL RECORD CONTAINING ONE LINE OF THE PICTURE. THE FIRST TWO OR THREE RECORDS OF EACH FILE ARE EBCDIC LABEL RECORDS. EACH OF THESE LABEL RECORDS OF FIVE 72-BYTE LOGICAL RECORDS CONTAIN SUCH INFORMATION AS THE NUMBER OF LINES AND SAMPLES IN THE PICTURE, VIEWING INFORMATION, AND A HISTORY OF THE COMPUTER PROCESSING TO WHICH THE PICTURE HAS BEEN SUBJECTED.

THE FOLLOWING PAGE LIST THE DR AND DS NUMBERS ALONG WITH THE

CORRESPONDING D NUMBERS AND THE TIME SPANS FOR EACH OF THE DATA SETS.

DR#	DS#	D#	ID	FILES	TIMESPAN
DR004369	DS004369	D005709 D005710	69-014A-01J "	1-13 (a) 14-25	07/31/69 "
DR004370	DS004370	D005711 D005712	69-014A-01K "	1-13 14-25	07/31/69 "
DR004387	DS004387	D005713 D005714 D005715 D005716	69-014A-01L " " "	1-14 15-28 29-42 43-49	07/29/69 " " "
DR004621	DS004621	D005717 D005718 D005719	69-030A-01J " "	1-13 14-25 (b) 26-31	08/05/69 " "
DR004371	DS004371	D005720 D005721 D005722	69-030A-01K " "	1-13 14-26 27-33	08/05/69 " "
DR004164	DS004164	D005716 D005723 D005724 D005725	69-030A-01L " " "	1-7 8-21 22-35 36-49	08/02/69 " " 08/03/69
DR004165	DS004165	D005726 D005727 D005728	" " "	1-14 15-28 29-42	08/03/69 08/04/69 "

(a) D005709 - RECORD 1 OF FILE 1 WAS LOST DURING RESTORATION.

(b) D005718 - READ ERROR OCCURRED IN RECORD 351 OF FILE 1 AND RECORD 1 OF FILE 12

5/3/71

MARINER 6 & 7
SURFACE TV CAMERA DATA

69-014A-01J,K,&L
69-030A-01J,K,&L

This catalog consists of 3 Mariner 6 and 3 Mariner 7 data sets. The tapes in these data sets are 800 bpi, 7-track, binary. They were created on an IBM 360 computer.

The tapes contain between 5 and 14 data files. Each file of the tapes consists of a single TV picture with each physical record containing one line of the picture. The first two or three records of each file are EBCDIC label records. Each of these label records of five 72-byte logical records contain such information as the number of lines and samples in the picture, viewing information, and a history of the computer processing to which the picture has been subjected.

Along with a partial dump of each tape is a list of what is contained in each label record of the tapes. This catalog also contains a sample End-of-File Parity Check for one of the tapes.

MARINER 6 & 7

SURFACE TV CAMERA DATA

<u>D#</u>	<u>C#</u>	<u>ID</u>	<u>JPL ID</u>	<u>FILES</u>	<u>TIME SPAN</u>
D-5709	C-4930	69-014A-01J	6N1-13	13	07/31/69
D-5710	C-4931	69-014A-01J	6N14-25	12	07/31/69
D-5711	C-4932	69-014A-01K	6N1-13	13	07/31/69
D-5712	C-4933	69-014A-01K	6N14-25	12	07/31/69
D-5713	C-4934	69-014A-01L	6F1-14	14	07/29/69
D-5714	C-4935	69-014A-01L	6F15-28	14	07/29/69
D-5715	C-4936	69-014A-01L	6F29-42	14	07/29/69
D-5716	C-4949	69-014A-01L	6F43-49	7	07/29/69
D-5716	C-4949	69-030A-01L	7F1-7	7	08/02/69
D-5717	C-4937	69-030A-01J	7N1-13	13	08/05/69
D-5718	C-4938	69-030A-01J	7N14-26	13	08/05/69
D-5719	C-4939	69-030A-01J	7N27-32	6	08/05/69
D-5720	C-4940	69-030A-01K	7N1-13	13	08/05/69
D-5721	C-4941	69-030A-01K	7N14-26	13	08/05/69
D-5722	C-4942	69-030A-01K	7N27-31	5	08/05/69
D-5723	C-4943	69-030A-01L	7F22-36	14	08/02/69 - 08/03/69
D-5724	C-4944	69-030A-01L	7F8-21	14	08/02/69
D-5725	C-4945	69-030A-01L	7F37-50	14	08/03/69
D-5726	C-4946	69-030A-01L	7F51-64	14	08/03/69
D-5727	C-4947	69-030A-01L	7F65-79	14	08/04/69
D-5728	C-4948	69-030A-01L	7F80-93	14	08/04/69

MARINER-MARS 1969 DIGITAL DATA

Format and specifications for the digital tapes of Mariner-Mars 1969 television data are:

7-track tape written on IBM 2400 series tape drive.
800 bits/inch
Odd parity
Data converter ON
Translator OFF

Each file contains a single TV picture. The first two or three records of each file are the label records. Each label record, written in EBCDIC, contains five 72-byte (8 bits/byte) logical records and provides information about the picture in that file. Bytes 33 through 36 and 37 through 40 of the first label record contain the number of lines and samples in the picture; and succeeding records contain additional information about picture identification, viewing parameters, and a history of the computer processing to which the picture has been subjected. The last EBCDIC label record, immediately preceding the television data, contains an "L" in the byte 72 of the fifth logical record. An example of the data in a label record is shown below:

NL= 775 NS= 960		
4F16 7/29/69 14.43.36 B CAMERA BOT GAIN 1.0		1 C
PHASE ANGLE 22 CENTRAL LONGITUDE 125 E		1 C
RANGE 1,004,292 KM		1 C
STRETCH - STRETCH - GEOM - *NORING - *NOISREM - *DIFFPIC		1HC
BAND - DESTREAR - DESPIKE - DIFFPIC - SPKPIX - GEOM - GEOM3		1HC
LNICOR		1ML

Following the final label record is the numerical television data. Each record, written in binary, contains a single line of television data; and each 8-bit byte corresponds to one picture element of that line. The first tape image (7-track tape) contains the six most significant bits of the first byte (picture element) and a parity bit. The second tape image contains the two least significant bits of the first byte, the four most significant bits of the second byte, and a parity bit. Similarly, the third and fourth tape images contain the last four bits of the second byte and the entire third byte. In this way, three bytes are packed into four tape images. Each tape is terminated by a double end-of-file mark. If you have any questions, please feel free to call or write Andy Collins, at the Jet Propulsion Laboratory, 213 354-5384.

LIST OF TAPES

MEG 6N1-13
MAX DISC
65-014A-015

FILE 1

SYSTEM LABEL

NL = 775 NS = 999

801 7/31/69 05.05.08 A CAMERA BLUE GAIN 1.0

APPROX. HEIGHT ALONG LEFT EDGE 1200 KM

*NDIRING - *NDISREM - *DIFFPIC - DESTREAK - DESPIKE - SAR

SPKPIX - FILTER - GEOM - GEOMA

FILE 2

SYSTEM LABEL

NL = 775 NS = 999

802 7/31/69 05.05.50 A CAMERA TOP GAIN 1.0

PHASE ANGLE 52 SOLAR ZENITH ANGLE 19

APPROX. WIDTH 592 KM HEIGHT 151 KM

*NDIRING - *NDISREM - *DIFFPIC - DESTREAK - DESPIKE - SPKPIX

FILTER - GEOM - GEOMA

FILE 3

SYSTEM LABEL

NL = 775 NS = 999

803 7/31/69 05.06.32 A CAMERA SPN2 GAIN 1.0

APPROX. HEIGHT ALONG LEFT EDGE 1135 KM

*NDIRING - *NDISREM - *DIFFPIC - DESTREAK - DESPIKE - SAR

SPKPIX - FILTER - GEOM - GEOMA

FILE 4

SYSTEM LABEL

NL = 775 NS = 999

804 7/31/69 05.07.14 A CAMERA BOT GAIN 1.0

PHASE ANGLE 52 SOLAR ZENITH ANGLE 06

APPROX. WIDTH 229 KM HEIGHT 174 KM

*NDIRING - *NDISREM - *DIFFPIC - DESTREAK - DESPIKE - SPKPIX

FILTER - GEOM - GEOMA

FILE 5

SYSTEM LABEL

NL = 775 NS = 999

805 7/31/69 05.07.57 A CAMERA RED GAIN 1.0

PHASE ANGLE 51 SOLAR ZENITH ANGLE 11

APPROX. WIDTH 2377 KM HEIGHT 1125 KM

*NDIRING - *NDISREM - *DIFFPIC - DESTREAK - DESPIKE - SAR

SPKPIX - FILTER - GEOM - GEOMA

FILE 6

SYSTEM LABEL

NL = 775 NS = 999

806 7/31/69 05.08.30 A CAMERA TOP GAIN 1.0

PHASE ANGLE 52 SOLAR ZENITH ANGLE 17

APPROX. WIDTH 152 KM HEIGHT 108 KM

*NDIRING - *NDISREM - *DIFFPIC - DESTREAK - DESPIKE - SPKPIX

FILTER - GEOM - GEOMA

FILE 7

SYSTEM LABEL

NL = 775 NS = 999

807 7/31/69 05.09.21 A CAMERA SPN1 GAIN 1.0

PHASE ANGLE 51 SOLAR ZENITH ANGLE 24

APPROX. WIDTH 1414 KM HEIGHT 993 KM

*NDIRING - *NDISREM - *DIFFPIC - DESTREAK - DESPIKE - SAR

SPKPIX - FILTER - GEOM - GEOMA

1 C
1 C
1 C
1HC
1HC
1HL

FILE 8
SYSTEM LABEL NL = 775 NS = 999
SN1 7/31/69 09.10.53 A CAMERA BOT GAIN 1.0
PHASE ANGLE 52 SOLAR ZENITH ANGLE 29
APPROX. WIDTH 126 KM HEIGHT 97 KM
#NOISE - #NOISECM - #DIFFPIC - DESTREAK - DESPIKE - SPKPIX
FILTER - GDM - GDM3

FILE 9
SYSTEM LABEL NL = 775 NS = 999
SN1 7/31/69 09.10.46 A CAMERA BLUE GAIN 1.0
PHASE ANGLE 51 SOLAR ZENITH ANGLE 41
APPROX. WIDTH 1410 KM HEIGHT 1228 KM
#NOISE - #NOISECM - #DIFFPIC - DESTREAK - DESPIKE - SAR
SPKPIX - FILTER - GDM - GDM3

FILE 10
SYSTEM LABEL NL = 775 NS = 999
SN1 7/31/69 09.11.25 A CAMERA TOP GAIN 1.0
PHASE ANGLE 52 SOLAR ZENITH ANGLE 40
APPROX. WIDTH 121 KM HEIGHT 119 KM
#NOISE - #NOISECM - #DIFFPIC - DESTREAK - DESPIKE - SPKPIX
FILTER - GDM - GDM3

FILE 11
SYSTEM LABEL NL = 775 NS = 999
SN1 7/31/69 09.12.18 A CAMERA GRN2 GAIN 1.0
PHASE ANGLE 51 SOLAR ZENITH ANGLE 51
APPROX. WIDTH 1202 KM HEIGHT 1151 KM
#NOISE - #NOISECM - #DIFFPIC - DESTREAK - DESPIKE - SAR
SPKPIX - FILTER - GDM - GDM3

FILE 12
SYSTEM LABEL NL = 775 NS = 999
SN1 7/31/69 09.12.52 A CAMERA BOT GAIN 1.0
PHASE ANGLE 52 SOLAR ZENITH ANGLE 56
APPROX. WIDTH 108 KM HEIGHT 114 KM
#NOISE - #NOISECM - #DIFFPIC - DESTREAK - DESPIKE - SPKPIX
FILTER - GDM - GDM3

FILE 13
SYSTEM LABEL NL = 775 NS = 999
SN1 7/31/69 09.13.15 A CAMERA RFO GAIN 1.0
PHASE ANGLE 51 SOLAR ZENITH ANGLE 61
APPROX. WIDTH 1107 KM HEIGHT 1139 KM
#NOISE - #NOISECM - #DIFFPIC - DESTREAK - DESPIKE - SAR
SPKPIX - FILTER - GDM - GDM3

END ENCOUNTERED

1927 2/14/25

0801	200401002004	010020040100	200401002004	010020040100	200401002004	01002004
0049	201747717634	010020040100	200401002004	010020040100	200401002004	01002004
0059	201733257424	010075660763	742607667624	010074172513	741725137417	41002014
0145	647623034725	030760344725	201705137404	010020040100	200401002004	01002004
0193	200401002004	010050353727	563533472264	010052142711	617443432014	07236555
0241	612403617457	437120151324	200401002004	010020040100	200401002004	01002004
0285	271327266634	472661540140	200563256554	474266342724	200601002714	23116154
0337	663627016444	0145220142305	705537126454	250030040342	503545002004	01002004
0381	705537226674	474720060100	615447237074	273120060100	617427266504	01402014
0423	200401002004	010020040100	200401002004	010020040100	200401002004	01002004

FILE 0001 REC 0002 CH 1232

0061	000000000000	000000000000	000000000000	000000000000
0049	000000000000	000000000000	000000000000	000000000000
0092	000000000000	000000000000	000000000000	000000000000
0145	000000000000	000000000000	000000000000	000000000000
0198	000000000000	000000000000	000000000000	000000000000
0241	000000000000	000000000000	000000000000	000000000000
0285	000000000000	000000000000	000000000000	000000000000
0337	000000000000	000000000000	000000000000	000000000000
0381	000000000000	000000000000	000000000000	000000000000
0433	000000000000	000000000000	000000000000	000000000000
0481	000000000000	000000000000	000000000000	000000000000
0525	000000000000	000000000000	000000000000	000000000000
0577	000000000000	000000000000	000000000000	000000000000
0628	000000000000	000000000000	000000000000	000000000000
0673	000000000000	000000000000	000000000000	000000000000
0721	000000000000	000000000000	000000000000	000000000000
0768	000000000000	000000000000	000000000000	000000000000
0817	000000000000	000000000000	000000000000	000000000000
0865	000000000000	000000000000	000000000000	000000000000
0913	000000000000	000000000000	000000000000	000000000000
0961	000000000000	000000000000	000000000000	000000000000
1009	000000000000	000000000000	000000000000	000000000000
1057	000000000000	000000000000	000000000000	000000000000
1105	000000000000	000000000000	000000000000	000000000000
1153	000000000000	000000000000	000000000000	000000000000
1201	000000000000	000000000000	000000000000	000000000000
1245	000000000000	000000000000	000000000000	000000000000
1297	000000000000	000000000000	000000000000	000000000000

FILE 0001 REC 0003 CF 1232

[illegible]

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20040100	200401002004	010020040100	200401002004	010020040100	742401002017	050075773765
20040100	200401002004	010020040100	200401002004	010020040100	200401002004	010020040398
75650763	742507667924	010074172513	741725137417	010020140500	607407246135	470120040302
60344725	201706137404	010020040100	200401002004	010020040100	200401002004	010074240303
60353727	563533472264	010062142711	617443432014	07236552707	201517056156	150651342307
20151324	200401002004	010020040100	200401002004	010020040100	200401002004	010074240303
61640140	200563256554	474266342724	200601002714	231161543327	623415003004	030461361343
20144236	705537116454	250030040342	603545002004	010020040100	200401002004	010074344303
20060100	615447237074	273120040100	617427266504	014020143705	655521632004	010020040100
20040100	200401002004	010020040100	200401002004	010020040100	200401002004	010074344323

[illegible][illegible]

[illegible][illegible][illegible]

[illegible]

LIST OF TAPE 1

FILE 1

SYSTEM LABEL NL = 775 NS = 960
 SF1 7/29/69 06.28.46 B CAMERA BOT GAIN 1.0
 PHASE ANGLE 22 CENTRAL LONGITUDE 260 E
 RANGE 1,244,222 KM
 STRETCH - STRETCH - *NDIRING - *NOISREM - *DIFFPIC - BAND
 DESTREK - DESPIKE - DIFFPIC - SPKPIX - GEOM - GEOM3
 LMICOR

FILE 2

SYSTEM LABEL NL = 775 NS = 960
 SF2 7/29/69 06.05.25 B CAMERA BOT GAIN 1.0
 PHASE ANGLE 22 CENTRAL LONGITUDE 251 E
 RANGE 1,228,389 KM
 STRETCH - STRETCH - *NDIRING - *NOISREM - *DIFFPIC - BAND
 DESTREK - DESPIKE - DIFFPIC - SPKPIX - GEOM - GEOM3
 LMICOR

FILE 3

SYSTEM LABEL NL = 775 NS = 960
 SF3 7/29/69 06.42.01 B CAMERA BOT GAIN 1.0
 PHASE ANGLE 22 CENTRAL LONGITUDE 243 E
 RANGE 1,212,556 KM
 STRETCH - STRETCH - *NDIRING - *NOISREM - *DIFFPIC - BAND
 DESTREK - DESPIKE - DIFFPIC - SPKPIX - GEOM - GEOM3
 LMICOR

FILE 4

SYSTEM LABEL NL = 775 NS = 960
 SF4 7/29/69 07.18.38 B CAMERA BOT GAIN 1.0
 PHASE ANGLE 22 CENTRAL LONGITUDE 234 E
 RANGE 1,196,725 KM
 STRETCH - STRETCH - *NDIRING - *NOISREM - *DIFFPIC - BAND
 DESTREK - DESPIKE - DIFFPIC - SPKPIX - GEOM - GEOM3
 LMICOR

FILE 5

SYSTEM LABEL NL = 775 NS = 960
 SF5 7/29/69 07.56.39 B CAMERA TOP GAIN 1.0
 PHASE ANGLE 22 CENTRAL LONGITUDE 224 E
 RANGE 1,180,282 KM
 STRETCH - STRETCH - *NDIRING - *NOISREM - *DIFFPIC - BAND
 DESTREK - DESPIKE - DIFFPIC - SPKPIX - GEOM - GEOM3
 LMICOR

FILE 6

SYSTEM LABEL NL = 775 NS = 960
 SF6 7/29/69 08.33.16 B CAMERA TOP GAIN 1.0
 PHASE ANGLE 22 CENTRAL LONGITUDE 215 E
 RANGE 1,164,444 KM
 STRETCH - STRETCH - *NDIRING - *NOISREM - *DIFFPIC - BAND
 DESTREK - DESPIKE - DIFFPIC - SPKPIX - GEOM - GEOM3
 LMICOR

FILE 7

SYSTEM LABEL NL = 775 NS = 960
6F7 7/29/69 09.09.52 B CAMERA TOP GAIN 1.0
PHASE ANGLE 22 CENTRAL LONGITUDE 207 E
RANGE 1,148,516 KM
STRETCH - STRETCH - *NDIRING - *NOISREM - *DIFFPIC - BAND
DESTREAK - DESPIKE - DIFFPIC - SPKPIX - GEOM - GEOM3
LMICOR

FILE 8

SYSTEM LABEL NL = 775 NS = 960
6F8 7/29/69 09.46.27 B CAMERA TOP GAIN 1.0
PHASE ANGLE 22 CENTRAL LONGITUDE 198 E
RANGE 1,132,733 KM
STRETCH - STRETCH - *NDIRING - *NOISREM - *DIFFPIC - BAND
DESTREAK - DESPIKE - DIFFPIC - SPKPIX - GEOM - GEOM3
LMICOR

FILE 9

SYSTEM LABEL NL = 775 NS = 960
6F9 7/29/69 10.24.30 B CAMERA BOT GAIN 1.0
PHASE ANGLE 22 CENTRAL LONGITUDE 188 E
RANGE 1,116,342 KM
STRETCH - STRETCH - *NDIRING - *NOISREM - *DIFFPIC - BAND
DESTREAK - DESPIKE - DIFFPIC - SPKPIX - GEOM - GEOM3
LMICOR

FILE 10

SYSTEM LABEL NL = 775 NS = 960
6F10 7/29/69 11.01.07 B CAMERA BOT GAIN 1.0
PHASE ANGLE 22 CENTRAL LONGITUDE 179 E
RANGE 1,100,501 KM
STRETCH - STRETCH - *NDIRING - *NOISREM - *DIFFPIC - BAND
DESTREAK - DESPIKE - DIFFPIC - SPKPIX - GEOM - GEOM3
LMICOR

FILE 11

SYSTEM LABEL NL = 775 NS = 960
6F11 7/29/69 11.39.46 B CAMERA BOT GAIN 1.0
PHASE ANGLE 22 CENTRAL LONGITUDE 170 E
RANGE 1,083,791 KM
STRETCH - STRETCH - *NDIRING - *NOISREM - *DIFFPIC - BAND
DESTREAK - DESPIKE - DIFFPIC - SPKPIX - GEOM - GEOM3
LMICOR

FILE 12

SYSTEM LABEL NL = 775 NS = 960
6F12 7/29/69 12.15.45 B CAMERA T P GAIN 1.0
PHASE ANGLE 22 CENTRAL LONGITUDE 161 E
RANGE 1,068,233 KM
STRETCH - STRETCH - *NDIRING - *NOISREM - *DIFFPIC - BAND
DESTREAK - DESPIKE - DIFFPIC - SPKPIX - GEOM - GEOM3
LMICOR

FILE 13

SYSTEM LABEL NL = 775 NS = 960