



#308

APOLLO 16
FAR UV CAMERA/SPECT
72-031C-10B

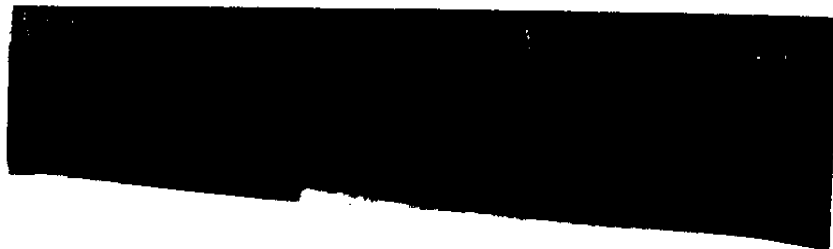


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1. INTRODUCTION:

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

APOLLO 16

DIGITIZED IMAGES ON MAG TAPE

72-031C-10B

ASUV-00017

This data set has been restored. There were originally 26 7-track, 800 BPI tapes written in Binary. There are six restored tapes. The DR tapes are 3480 cartridges and the DS tapes are 9-track, 6250 BPI. The original tapes were created on an IBM 360 computer and the restored tapes were created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR004410	DS004410	D023995	1 - 35	04/21/72 - 04/23/72 (a)
		D023996	36 - 112	04/21/72 - 04/23/72 (b)
		D023997	113 - 121	04/21/72 - 04/23/72
		D023998	122 - 130	04/21/72 - 04/23/72
		D023999	131 - 138	04/21/72 - 04/23/72
DR004411	DS004411	D024000	1 - 9	04/21/72 - 04/23/72 (c)
		D024001	10 - 18	04/21/72 - 04/23/72
		D024002	19 - 27	04/21/72 - 04/23/72
		D024003	28 - 36	04/21/72 - 04/23/72
		D024004	37 - 45	04/21/72 - 04/23/72
DR004412	DS004412	D024005	1 - 9	04/21/72 - 04/23/72
		D024006	10 - 18	04/21/72 - 04/23/72 (d)
		D024007	19 - 27	04/21/72 - 04/23/72
		D024008	28 - 36	04/21/72 - 04/23/72
		D024009	37 - 47	04/21/72 - 04/23/72
DR004413	DS004413	D024010	1 - 9	04/21/72 - 04/23/72
		D029054	10 - 16	04/21/72 - 04/23/72
		D029055	17 - 24	04/21/72 - 04/23/72 (e)
		D029056	25 - 33	04/21/72 - 04/23/72
		D029057	34 - 48	04/21/72 - 04/23/72
DR004414	DS004414	D029058	1 - 19	04/21/72 - 04/23/72 (f)
		D029059	20 - 24	04/21/72 - 04/23/72
		D029060	25 - 36	04/21/72 - 04/23/72
		D029061	37 - 55	04/21/72 - 04/23/72
		D029062	56 - 70	04/21/72 - 04/23/72 (g)
DR004415	DS004415	D029063	1 - 12	04/21/72 - 04/23/72

(a) D023995: Read errors occurred on records 656, 657, 658, 659, 660, 661, 662, 663, 664, 775 of file 29.

(b) D023996: Read error occurred on record 143 of file 12 and record 217 of file 16.

(c) D024000: Read errors occurred on records 501, 673, 694, 705, 726, 757, 831 of file 1 and record 384 of file 2.

(d) D024006: Read errors occurred on records 684, 939, 980, 1023 of file 9.

(e) D029055: Read error occurred on record 516 of file 1.

(f) D029058: Read error occurred on record 2 of file 1.

(g) D029062: Read errors occurred on records 18, 628, 629, 630, 631, 632, of file 1.

REQ. AGENT
WKD

RAND NO.
RB5596

ACQ. AGENT
TNK

APOLLO 16

FAR UV CAMERA/SPECT

72-031C-10B

This data set consists of ¹⁴~~30~~, 800 BPI, Binary, Multi-filed, 7 track magnetic tapes. These tapes contain the digitized results of microdensitometering the 209 mission frames from the Apollo 16 experiment, "Far UV Camera."

The time spans for the tapes are:

<u>TAPE #</u>	<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>TIME SPAN</u>
UV72M	D-13961	C-14539	15	4/21/72 - 4/23/72
UV72N	D-13962	C-14540	15	4/21/72 - 4/23/72
UV72O	D-13963	C-14541	15	4/21/72 - 4/23/72
UV72Q	D-13965	C-14542	15	4/21/72 - 4/23/72
UV72R	D-13966	C-14543	15	4/21/72 - 4/23/72
UV72S	D-13967	C-14544	15	4/21/72 - 4/23/72
UV72T	D-13968	C-14545	17	4/21/72 - 4/23/72
UV72U	D-13969	C-14546	15	4/21/72 - 4/23/72
UV72B	D-13970	C-14547	15	4/21/72 - 4/23/72
UV72C	D-13971	C-14548	15	4/21/72 - 4/23/72
UV72D	D-13972	C-14549	15	4/21/72 - 4/23/72
UV72E	D-13973	C-14550	15	4/21/72 - 4/23/72
UV72F	D-13974	C-14551	15	4/21/72 - 4/23/72
UV72G	D-13975	C-14552	15	4/21/72 - 4/23/72
UV72H	D-13976	C-14553	17	4/21/72 - 4/23/72
UV72I	D-13977	C-14554	15	4/21/72 - 4/23/72
UV72J	D-13978	C-14555	15	4/21/72 - 4/23/72

*These tapes
were released
5/7/77
Replacements
D23995-24010
29054-29063*

<u>TAPE #</u>	<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>TIME SPAN</u>
UV72K	D-13979	C-14556	15	4/21/72 - 4/23/72
UV72V	D-13980	C-14557	18	4/21/72 - 4/23/72
UV72W	D-13981	C-14558	16	4/21/72 - 4/23/72
UV73A	D-13982	C-14559	15	4/21/72 - 4/23/72
UV73B	D-13983	C-14560	6	4/21/72 - 4/23/72
UV73C	D-13984	C-14561	27	4/21/72 - 4/23/72
UV73D	D-13985	C-14562	15	4/21/72 - 4/23/72
UV73E	D-13986	C-14563	12	4/21/72 - 4/23/72
UV73F	D-13987	C-14564	28	4/21/72 - 4/23/72
UV73G	D-13988	C-14565	6	4/21/72 - 4/23/72
UV73H	D-13989	C-14566	29	4/21/72 - 4/23/72
UV72A	D-13990	C-14567	15	4/21/72 - 4/23/72
UV72L	D-13960	C-14705	15	4/21/72 - 4/23/72

See 1st
Page

This catalog is composed of 476 pages submitted by Dr. T. Page to accompany the magnetic tapes that contain the results of microdensitometering, using the Dicomed Model 57 Microdensitometer, the 209 mission frames gathered on the lunar surface (17:51:53 GMT 4/21/72 to 17:40:14 GMT 4/23/72) by the Apollo 16 "Far UV Camera/Spectrometer" experiment. The 209 mission frames included 190 "pictures" and 19 calibration frames. A number of these mission frames were microdensitometered more than once. In addition, during the process of doing the microdensitometer scans many scans were made of a gray-scale step-wedge as a qualitative control variable on the scanning procedure. In all, 476 scans were made, and the information on each scan is contained on a single page.

The nature of the information given on each scan make this catalog useful for three purposes:

- (1) As the source of general information on each of the mission frames, as the pages give data on camera pointing, time of exposure, filter(s) used, exposure time, objects visible, etc.
- (2) As a useful adjunct to the viewing of the mission frames.
- (3) As an essential guide in determining the location of the microdensitometer scan(s) of the mission frames on the digitized scan data tapes; and, the source of information on how the scans were performed, and the size of the scans.

Copies (B/W negatives, 70mm) of the 209 mission frames are stored at the NSSDC under the Data Set number 72-031C-10A. The thirty magnetic tapes containing the microdensitometer scan data are at the NSSDC under Data Set number 72-031C-10B. A person may order either data set, or a sub-set of either set, from the NSSDC.

There follows an index giving the page location(s) for each of the 190 "picture" mission frames in this catalog.

Thomas Kelsall
Acquisition Scientist
NSSDC
27 May 1974

INDEX FOR THE 190 MISSION-FRAMES OF UV "PICTURES"

Lunar Surface Exposure number	Catalog Page(s)	Lunar Surface Exposure Number	Catalog Page(s)	Lunar Surface Exposure Number	Catalog Page(s)
1	23	48	88	95	155,315
2	24	49	89,383,466	96	156
3	26,358,373	50	92,319,434	97	157
4	27,408,425	51	93,301	98	158,385,467
5	28,307	52	94	99	160,314,435
6	29	53	95	100	161,297
7	32	54	97	101	163
8	34,374	55	98	102	164
9	35	56	99	103	165
10	37	57	101	104	166
11	38	58	102	105	169,357,388
12	39,327	59	103	106	170,296,405,436
13	41,426,458	60	104	107	171,311
14	42,427	61	107	108	172
15	43	62	108	109	174,356
16	44,326	63	109	110	175,389
17	47	64	110	111	176,313,390,438
18	48,375	65	112	112	178
19	49,325	66	113	113	179
20	50	67	114	114	180
21	52,407,428,429	68	116	115	181
22	53,306	69	117,384	116	184
23	54,303	70	120,318	117	185
24	56	71	121,300	118	186
25	57	72	124	119	187,404,468
26	58,376,431,459	73	125	120	189
27	59,324,432	74	126	121	190
28	62	75	127	122	191
29	63,433,461	76	129	123	193
30	64	77	130	124	194
31	65,378,462	78	131	125	195,392,469
32	67	79	133	126	196,294,439
33	68	80	134	127	199,309
34	69	81	135	128	200
35	71,321,379,463	82	136	129	201
36	72	83	139	130	202,355
37	73,320	84	140	131	204
38	74	85	141	132	205,393,470
39	77,464	86	142	133	206,293,440
40	78,380	87	144	134	208,308
41	79,302	88	145	135	209
42	80	89	146	136	210
43	82	90	148	137	211
44	83,361	91	149	138	214
45	84	92	150	139	215
46	86	93	151	140	216
47	87	94	154,298	141	217

INDEX FOR THE 190 MISSION-FRAMES OF UV "PICTURES"

Lunar Surface Exposure Number	Catalog Page(s)	Lunar Surface Exposure Number	Catalog Page(s)
142	219	189	283, 351
143	220	190	352
144	221		
145	223		
146	224		
147	225		
148	226		
149	229		
150	230		
151	231		
152	232, 394		
153	234, 292, 443		
154	235		
155	236		
156	238		
157	239		
158	240, 395		
159	241		
160	244		
161	245		
162	246		
163	247		
164	249		
165	250		
166	251		
167	253		
168	254, 340		
169	255		
170	256, 341		
171	259, 342		
172	260, 343, 397		
173	261, 398, 444		
174	262, 291		
175	264, 345		
176	265, 346		
177	266		
178	268, 347		
179	269, 399		
180	270, 288, 445		
181	271		
182	274		
183	275		
184	276, 349, 400		
185	277, 403, 446		
186	279		
187	280		
188	281, 350		



TAPE UV72A

FILE 1 OF TAPE NUMBER UV72A

MISSION FRAME 901

FRAME TYPE:

FILTER TYPE: N/A

TARGET NUMBER 0

DATE OF EXPOSURE: 00/00/00

DURATION OF EXPOSURE .00 MIN.

AZIMUTH SETTING (NOMINAL): .000 DEG.

RIGHT ASCENSION (C-O-F): .000 DEG.

ANGLE FROM LOCAL ZENITH TO
NORTH CELESTIAL POLE: .000 DEG.

TARGET DESIGNATION: GRAY-SCALE

TIME OF EXPOSURE (GMT): 00:00:00

ELEVATION SETTING (NOMINAL): .000 DE

DECLINATION (C-O-F): .000 DEG.

SCAN INFORMATION

SCAN SEQUENCE NUMBER 1

DATE OF SCAN: 05/23/72

NUMBER OF ELEMENTS PER SCAN LINE: 1024

SCANNER LIGHT LEVEL SETTING: 5

TIME OF SCAN: 18:52:00

NUMBER OF LINES PER FRAME: 50

ADDITIONAL FRAME INFORMATION

FIRST SCAN OF THE FABRICATED (NON-MISSION) FRAME CONTAIN-
ING THE GREY-SCALE STEP WEDGE. THIS FRAME TO BE RE-SCANNED AT
REGULAR INTERVALS OF TIME (AFTER EVERY FOURTH MISSION
FRAME SCANNED) TO TRACK SCANNER DRIFT ON DENSITY LEVELS.

////////////////////////////////////

Poor
Original

1111

FRAME TYPE: CALIBRATION 1-S

TARGET NUMBER 0

DATE OF EXPOSURE: 04/01/72

DURATION OF EXPOSURE 1.50 MIN.

AZIMUTH SETTING (NOMINAL): .000 DEG.

RIGHT ASCENSION (C-Q-F): .000 DEG.

ANGLE FROM LOCAL ZENITH TO
NORTH CELESTIAL POLE: .000 DEG.

TARGET DESIGNATION: F121-A LAMP

TIME OF EXPOSURE (GMT): 00:00:00

ELEVATION SETTING (NOMINAL): .000 DE

DECLINATION (C-O-F): .000 DEG.

SCAN INFORMATION

SCAN SEQUENCE NUMBER 2

DATE OF SCAN: 05/23/72

NUMBER OF ELEMENTS PER SCA' LINE: 1024

SCANNER LIGHT LEVEL SETTING: 5

TIME OF SCAN: 17:30:00

NUMBER OF LINES PER FRAME: 1024

ADDITIONAL FRAME INFORMATION

THE FIRST DIOXIDIZED CALIBRATION FRAME. CALIBRATION FRAMES EXPOSED AT NRL (HYDROGEN-ARGON LAMP SOURCE) PRIOR TO APOLLO 16 MISSION. TO BE USED FOR CONVERTING FILM DENSITY VALUES TO FLUX VALUES. THIS FRAME HAS ABOUT 10 VISIBLE SCRATCHES.
% 'SPECKS' - IMAGE OF LAMP SOURCE-IMAGE FAINT. APPROX. C-O-F.

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#####  
#####
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Poor
Original

RECORD 1 OF FILE
LENGTH = 1536 BYTES



1(	1)	030031030031	033032031031	031030027027	032033032031	030030031032	031030027030	027027030027	027031032032
9(	49)	031030027030	032031032031	031032035032	032031030027	030032032031	032032031030	031031030032	031030031030
17(	97)	0320303032031	031031027031	032031030030	031032031031	030032031030	032032032031	033034030032	033032031030
25(	145)	0320354033032	032032031034	033031030031	030027030030	031032031030	033034032032	033034030032	033032031030
33(	193)	0310300303030	031031030030	031030030033	032031032032	031030031030	031032031030	033034033032	033032031030
41(	241)	031031031031	031032030304	035034033032	031030027030	031032031030	031032031030	033034033032	033032031030
49(	289)	0340303032032	032031030031	033030030032	031032031030	030031030030	033032031030	033034033032	033032031030
57(	337)	027031030027	030032033031	030030030032	031032031030	030031030030	033032031030	033034033032	033032031030
65(	385)	031031030031	032032033032	031031030030	030031030032	031031031030	033032031030	033034033032	033032031030
73(	433)	031032032031	030032031030	030030030030	031030027030	031031031030	033032031030	033034033032	033032031030
81(	481)	030031031032	032031032032	033032031030	031031030032	033032031030	033032031030	033034033032	033032031030
89(	529)	030031031030	030031032031	030031032032	031031030032	033032031030	033032031030	033034033032	033032031030
97(	577)	032032033033	033034033032	032032031031	032032031032	033034033034	033032031032	033034033034	033032031032
105(	625)	031031031033	032031032034	034033032032	032032031032	033034033034	033032031032	033034033034	033032031032
113(	673)	033032032033	032031032034	034033032032	032032031032	033034033034	033032031032	033034033034	033032031032
121(	721)	0340334034033	033033032031	035036035035	032031031033	033034033035	033032031033	033034033035	033032031033
129(	769)	0330334034033	032033033033	035036035035	032031031033	033034033035	033032031033	033034033035	033032031033
137(	817)	034033031032	033033033034	034033033033	032032031033	033034033034	033032031033	033034033034	033032031033
145(	865)	0360335032032	033033034034	034033033033	032032031033	033034033034	033032031033	033034033034	033032031033
153(	913)	034033032033	032033032033	033033033033	032032031033	033034033034	033032031033	033034033034	033032031033
161(	961)	0360334033033	032033032033	033033033033	032032031033	033034033034	033032031033	033034033034	033032031033
169(	1009)	031031033033	033033032033	034033033033	032032031033	033034033034	033032031033	033034033034	033032031033
177(	1057)	0330334033034	033033032033	034033033033	032032031033	033034033034	033032031033	033034033034	033032031033
185(	1105)	032032032032	033033032032	034033033033	032032031033	033034033034	033032031033	033034033034	033032031033
193(	1153)	032031030031	032031031033	033033033033	032032031033	033034033034	033032031033	033034033034	033032031033
201(	1201)	033032032033	033033032033	034033033033	032032031033	033034033034	033032031033	033034033034	033032031033
209(	1249)	031032032031	0300330031032	033033033033	032032031033	033034033034	033032031033	033034033034	033032031033
217(	1297)	033032031031	033033032032	033033033033	032032031033	033034033034	033032031033	033034033034	033032031033
225(	1345)	031031033033	0320332031030	033033033033	032032031033	033034033034	033032031033	033034033034	033032031033
233(	1393)	031031033033	0320332031030	033033033033	032032031033	033034033034	033032031033	033034033034	033032031033
241(	1441)	031030030032	0320332031030	033033033033	032032031033	033034033034	033032031033	033034033034	033032031033
249(	1489)	027030027030	0300330030030	027027026027	027027026027	031032031032	027030030030	032031030030	031031030030

Dr/DS 00 4413
D 09054

RECORD 2 OF FILE 1
LENGTH = 1536 BYTES

1(	1)	03103300350352	03103300310350	0310330330333	03203510300351	03503340333030	0300310330027	03103300352035	0320310310350
9(	49)	03300300320352	0320310310352	0310310310350	03203520320352	0320332032031	0300310332032	0310310330030	0330330330352
17(	97)	03103300320352	03103310310350	0300310320352	03203520310351	0300310310354	03303340333033	0330310330352	0320310320352
25(	145)	03103310310350	03103330353532	03103310320352	0310330310351	0310330031034	0330310310352	0320310320352	0320310320352
33(	193)	03103310310350	03003300330352	03103300320354	03303300330352	0320310330352	0320310330352	0330330330352	0310330330352
41(	241)	03300300310352	03403340354035	03203340354035	03303310330352	03303310330354	0320330330352	0330330330352	0310330330352
49(	289)	0330320310351	0320320335352	0310320320352	0310330320351	03103310330354	03303300330351	03303300330351	0310330330352
57(	337)	0330270270351	03103300310350	03103300320352	03203310310352	0320331030027	0300320320352	0320320320352	0300320320352
65(	385)	0330320320353	0330320320353	0320310320353	03203540330350	0320330320351	0320330320351	0310330320352	0310330320352
73(	433)	0310330310350	0330320320353	03203320320353	03303310310352	03203320320351	03103300330350	03203310330350	03103300330351
81(	481)	0310330310350	03203320320353	03203320320353	03403330320352	03103320320351	03203320320351	03203310320352	0310330320352
89(	529)	0330027027031	03103320330352	03103300310353	03403330320352	03103320320350	03203330320351	03203330320351	0310330320352
97(	577)	0320310320351	03103320320351	03103320310350	03303330330354	03303340330354	03303350330353	03303350330353	03303350330353
105(	625)	0330334035035	0320334035035	0320334035035	03303330330354	03303340330354	03303350330353	03303350330353	03303350330353
113(	673)	0330330334035	0320333032035	0320333032035	03403350330352	03303340330354	03303350330353	03303350330353	03303350330353
121(	721)	0330334035035	03203340350354	03203340350354	03303360330352	03303360330354	03303360330354	03303360330354	03303360330354
129(	769)	0330320330353	03203320330352	03203320330352	03303360330352	03303360330355	03303360330355	03303360330355	03303360330355
137(	817)	0330320330353	03203340350354	03403330350354	03303350320353	03403330350352	03303350350354	03303350350354	03303350350354
145(	865)	0330330330354	03403330350354	03303340350354	03303350320353	03403330350352	03303350350354	03303350350354	03303350350354
153(	913)	0330334035035	0330334035035	03303340350354	03403340330352	03303360330356	03303360330356	03303360330356	03303360330356
161(	961)	0320333033035	0330332032035	0330332032035	03103310310350	03303320310350	03303330330355	03303330330355	03303330330355
169(	1009)	0330310320352	032033203540354	032033203540354	0310330310352	03203330330352	03303330330352	03303330330352	03303330330352
177(	1057)	03303330320352	03103310340353	03103310340353	03203340330351	03203320330353	03303340330353	03303340330353	03303340330353
185(	1105)	0330320330352	03103320320351	03103310330354	03303340330354	03303340330352	03303340330352	03303340330352	03303340330352
193(	1153)	03103320330353	03203320330354	03303340330353	03103320330352	03303320330353	03303340330353	03303340330353	03303340330353
201(	1201)	03403340350353	03303340350351	03303320310350	03103310310351	03203330330353	03303330330353	03303330330353	03303330330353
209(	1249)	03303310310351	032033303540354	032033303540354	03303330320351	03103320320351	03103320320351	03103320320351	03103320320351
217(	1297)	0310320330352	03203310310352	03203310310352	03203310310352	03203340330352	03303340330352	03303340330352	03303340330352
225(	1345)	03203310320353	03203320330353	03203320330353	03203320330352	03103310310352	03303320330352	03303320330352	03303320330352
233(	1393)	03103310310351	03103310350351	03103310350351	0310330310351	03003310320352	03103310320352	03103310320352	03103310320352
241(	1441)	032033033035030	02703300350027	02703300320352	0310330310351	03003300310350	03003300310350	03003300310350	03003300310350
249(	1489)	027027027027	0310330027027	030033103300350	027033003300350	0300270270351			03103310310350

RECORD 1024 OF FILE 1
LENGTH = 1536 BYTES

1(	1)	033033034034	034035037036	034033035036	035034035034	0350335035034	033033033031	033033034035	036036035034
9(	49)	034034033033	034034034033	033033033033	034034035034	033033033031	035035034035	035035034035	033033034035
17(	97)	033033032031	032032032032	031031032032	034036035034	034036035034	035035034035	035035034035	033033034035
25(	145)	033033032032	032031030030	032031031030	031031032032	031031032032	035035034035	035035034035	033033034035
33(	193)	032033032032	033033032031	030031031030	030033003031	0310330027030	031033032032	031033032032	033033034035
41(	241)	033033031031	030031032031	030031032033	031033032032	031033032032	031033032032	031033032032	033033034035
49(	289)	0300330027030	0310330032031	0300330027027	0300330027027	0310330027027	031033032032	031033032032	033033034035
57(	337)	032031030027	027027026030	0310330030027	0310330027026	0310330027026	031033032032	031033032032	033033034035
65(	385)	0260330030027	027027027031	0300330031030	0300330031030	0300330031030	031033032032	031033032032	033033034035
73(	433)	027027031031	0300330031030	030027027027	030027027027	030027027027	031033032032	031033032032	033033034035
81(	481)	032033030030	030027031030	030027027027	030027027027	030027027027	031033032032	031033032032	033033034035
89(	529)	0330332032032	031031031032	034033033032	034033033035	034033033035	034033034034	034033034034	033033034035
97(	577)	035034034036	036037036037	040041040040	037036036037	041040037036	040040037036	040040037036	033033034035
105(	625)	036037037036	036037037036	037037037036	040037037036	041040037036	040040037036	040040037036	033033034035
113(	673)	040036035035	037037037036	037037037036	037037037036	040040037036	040040037036	040040037036	033033034035
121(	721)	036040037036	040040037036	040037037036	040040037036	040040037036	040040037036	040040037036	033033034035
129(	769)	040037037036	040040037036	040037037036	040040037036	040040037036	040040037036	040040037036	033033034035
137(	817)	042041037037	041041040037	042042040037	040040037036	040040037036	040040037036	040040037036	033033034035
145(	865)	041037036037	037041041040	037037036037	040040037036	040040037036	040040037036	040040037036	033033034035
153(	913)	037036037040	040040041040	037037036037	040040037036	040040037036	040040037036	040040037036	033033034035
161(	961)	036036036035	034033032035	034033036036	036037037036	036037037036	036037037036	036037037036	033033034035
169(	1009)	035034035034	034033033033	032031031035	035034035034	035034035034	035034035034	035034035034	033033034035
177(	1057)	033034035033	033033033033	033033032034	034033033033	034033033033	034033033033	034033033033	033033034035
185(	1105)	033034035033	034033033034	033034035033	034033033033	034033033033	034033033033	034033033033	033033034035
193(	1153)	034034035033	034036035033	035034035033	035034035033	035034035033	035034035033	035034035033	033033034035
201(	1201)	033032034034	033034035035	035034035033	035034035033	035034035033	035034035033	035034035033	033033034035
209(	1249)	034033034033	033034035035	035034035033	035034035033	035034035033	035034035033	035034035033	033033034035
217(	1297)	035034035035	035036041037	035034035033	035034035033	035034035033	035034035033	035034035033	033033034035
225(	1345)	034034035035	036035035035	035034035033	035034035033	035034035033	035034035033	035034035033	033033034035
233(	1393)	034035035035	036036035034	035034035033	035034035033	035034035033	035034035033	035034035033	033033034035
241(	1441)	036036035034	035035035035	035034035033	035034035033	035034035033	035034035033	035034035033	033033034035
249(	1489)	034036036035	035035035035	035034035033	035034035033	035034035033	035034035033	035034035033	033033034035

1024 RECORDS IN FILE 1 OF TAPE

RECORD 1023 OF FILE 1
LENGTH = 1536 BYTES

1(	1)	032032033035	033034036035	0330333033035	0350340340333	0330334035034	0330333033033	034035034034	033034034033
9(	49)	033032032034	0330333033032	033032032033	033032033032	031031032032	033036035033	034034033032	033036035033
17(	97)	033032032032	032031030030	030032032032	034034033032	0320334033031	032032032033	032031030027	034034033032
25(	145)	032033033033	0320332031031	031031031031	032031031032	0310330031032	031032032031	031033033032	030031033032
33(	193)	031031032031	030032032032	030032032032	030031030031	030031030027	030031030031	03003030027	031031031031
41(	241)	027031032031	030030031031	031030031031	030027030030	027027027026	030030030030	027026027030	026026027030
49(	289)	027026026026	031031030030	027026027027	030030030032	031030027027	030031030030	027026027030	027030030031
57(	337)	031031030027	027027026027	030030031030	030030030032	031030027027	030031030030	027026027030	027030030031
65(	385)	026031031030	030027027027	030030030030	031030027026	030031030030	030030030030	030030030030	030030030030
73(	433)	030030030030	030031030030	031030030030	030030030027	030031030030	030031030030	030030030030	030030030030
81(	481)	032032031031	030030030032	032031030032	034035034034	035034034034	035035034034	034033034033	034033034033
89(	529)	032032032031	036036037037	032033034033	036036036037	034035034034	036035035036	037041040037	036035035036
97(	577)	036035034034	040041042041	040040037037	041040037040	041040037036	041040037036	041040037036	041040037036
105(	625)	035036037037	036040037036	037036036040	040037040041	040040037036	037036035037	037036035037	037036035037
113(	673)	037036035035	037036036040	040037040041	040040037036	040040037036	037036035037	037036035037	037036035037
121(	721)	040040037037	037036036040	040037040041	040040037036	040040037036	037036035037	037036035037	037036035037
129(	769)	037036036037	037036036040	040037040041	040040037036	040040037036	037036035037	037036035037	037036035037
137(	817)	037036037040	037036036040	040037040041	040040037036	040040037036	037036035037	037036035037	037036035037
145(	865)	042041036036	036037036036	037040040040	037040040040	037040040040	037040040040	037040040040	037040040040
153(	913)	036036036037	036037040043	042041040037	040037040041	040040037036	037037040041	040040040041	040040040041
161(	961)	036037040040	037037040040	040037040041	041040037037	041040037037	041040037037	041040037037	041040037037
169(	1009)	036036036035	035035034034	034034037037	037035034034	035035034034	036036036035	036036036035	036036036035
177(	1057)	035035035035	034033032032	032032033036	035034036035	034033032034	035035034034	036036036035	036036036035
185(	1105)	035035034033	032034034034	034033034036	035034036035	034033032034	035035034034	036036036035	036036036035
193(	1153)	035034033034	035034034034	034033034036	035034036035	034033032034	035035034034	036036036035	036036036035
201(	1201)	034034033035	034033031031	033033033032	034033034036	035034036035	034033032034	035035034034	036036036035
209(	1249)	0330330334033	035035035034	036035034034	034033034036	035034036035	034033032034	035035034034	036036036035
217(	1297)	035034033034	035035035036	036035035035	034033034036	035034036035	034033032034	035035034034	036036036035
225(	1345)	035035036035	034034035035	036036035035	034033034036	035034036035	034033032034	035035034034	036036036035
233(	1393)	034035036035	036036035035	033035036037	036036035035	034033034036	035034036035	034033032034	035035034034
241(	1441)	036036035034	034033034034	034033036037	036036035035	034033034036	035034036035	034033032034	035035034034
249(	1489)	0340335035034	034033034035	0340334033034	036036035035	034033034036	035034036035	034033032034	035035034034

HR	MIN	SEC	SEC.	LAT.	LONG.	THEIA	PSI	PHI	ALTITUDE	SPECTRA
253	21	30	912090.38	0.0	0.0	-57.36	-76.57	94.90	0.0	1
253	21	40	912100.38	0.0	0.0	-57.07	-76.54	91.89	0.0	1
253	21	50	912110.38	0.0	0.0	-56.77	-76.52	88.88	0.0	2
253	22	0	912120.38	0.0	0.0	-56.46	-76.51	85.86	0.0	1
253	22	10	912130.38	0.0	0.0	-56.16	-76.50	82.88	0.0	1
253	22	20	912140.38	0.0	0.0	-55.81	-76.49	79.91	0.0	1
253	22	30	912150.38	0.0	0.0	-55.50	-76.49	76.91	0.0	2
253	22	40	912160.38	0.0	0.0	-55.19	-76.50	73.92	0.0	1
253	22	50	912170.38	0.0	0.0	-54.82	-76.51	70.97	0.0	1
253	23	0	912180.38	0.0	0.0	-54.49	-76.54	68.01	0.0	1
253	23	10	912190.38	0.0	0.0	-54.16	-76.56	65.02	0.0	2
253	23	20	912200.38	0.0	0.0	-53.82	-76.59	62.05	0.0	1
253	23	30	912210.38	0.0	0.0	-53.48	-76.63	59.10	0.0	1
253	23	40	912220.38	0.0	0.0	-53.14	-76.66	56.13	0.0	2
253	23	50	912230.38	0.0	0.0	-52.82	-76.71	53.14	0.0	1
253	24	0	912240.38	0.0	0.0	-52.45	-76.76	50.21	0.0	1
253	24	10	912250.38	0.0	0.0	-52.13	-76.82	47.22	0.0	1
253	24	20	912260.38	0.0	0.0	-51.83	-76.88	44.20	0.0	2
253	24	30	912270.38	0.0	0.0	-51.48	-76.95	41.26	0.0	1
253	24	40	912280.38	0.0	0.0	-51.18	-77.02	38.24	0.0	1
253	24	50	912290.38	0.0	0.0	-50.90	-77.10	35.22	0.0	1
253	25	0	912300.38	0.0	0.0	-50.58	-77.18	32.25	0.0	1
253	25	10	912310.38	0.0	0.0	-50.34	-77.26	29.18	0.0	1
253	25	20	912320.38	0.0	0.0	-50.09	-77.35	26.12	0.0	1
253	25	30	912330.38	0.0	0.0	-49.83	-77.45	23.08	0.0	0
253	25	40	912340.38	0.0	0.0	-49.60	-77.55	20.00	0.0	0
253	25	50	912350.38	0.0	0.0	-49.36	-77.66	16.94	0.0	0
253	26	0	912360.38	0.0	0.0	0.0	0.0	0.0	0.0	0
253	26	10	912370.38	0.0	0.0	0.0	0.0	0.0	0.0	0
253	26	20	912380.38	0.0	0.0	0.0	0.0	0.0	0.0	2
253	26	30	912390.38	0.0	0.0	-48.77	-78.11	4.33	0.0	0
253	26	40	912400.38	0.0	0.0	-48.71	-78.23	1.09	0.0	1
253	26	50	912410.38	0.0	0.0	-48.64	-78.35	-2.13	0.0	1
253	27	0	912420.38	0.0	0.0	-48.63	-78.48	-5.42	0.0	2
253	27	10	912430.38	0.0	0.0	-48.60	-78.61	-8.67	0.0	1
253	27	20	912440.38	0.0	0.0	-48.63	-78.74	-11.98	0.0	1
253	27	30	912450.38	0.0	0.0	-48.70	-78.88	-15.36	0.0	1
253	27	40	912460.38	0.0	0.0	-48.84	-79.01	-18.80	0.0	2
253	27	50	912470.38	0.0	0.0	-48.99	-79.15	-22.23	0.0	1
253	28	0	912480.38	0.0	0.0	-49.19	-79.28	-25.73	0.0	1
253	28	10	912490.38	0.0	0.0	-49.41	-79.41	-29.24	0.0	1
253	28	20	912500.38	0.0	0.0	-49.68	-79.54	-32.80	0.0	2
253	28	30	912510.38	0.0	0.0	-50.03	-79.67	-36.44	0.0	1
253	28	40	912520.38	0.0	0.0	-50.39	-79.80	-40.09	0.0	1
253	28	50	912530.38	0.0	0.0	-50.83	-79.92	-43.81	0.0	1
253	29	0	912540.38	0.0	0.0	-51.28	-80.04	-47.56	0.0	2
253	29	10	912550.38	0.0	0.0	-51.81	-80.16	-51.37	0.0	1
253	29	20	912560.38	0.0	0.0	-52.42	-80.28	-55.26	0.0	1
253	29	30	912570.38	0.0	0.0	-53.05	-80.39	-59.17	0.0	1
253	29	40	912580.38	0.0	0.0	-53.75	-80.50	-63.16	0.0	2

HR	MIN	SEC	SEC.	LAT.	LONG.	THEIA	PSI	PHI	ALTITUDE	SPECTRA
253	13	10	911590.38	0.0	0.0	-47.55	-77.37	-90.57	0.0	2
253	13	20	911600.38	0.0	0.0	-47.85	-77.47	-94.16	0.0	1
253	13	30	911610.38	0.0	0.0	-48.26	-77.57	-97.86	0.0	1
253	13	40	911620.38	0.0	0.0	-48.64	-77.66	-101.52	0.0	1
253	13	50	911630.38	0.0	0.0	-49.03	-77.74	-105.19	0.0	2
253	14	0	911640.38	0.0	0.0	-49.42	-77.82	-108.88	0.0	1
253	14	10	911650.38	0.0	0.0	-49.89	-77.89	-112.63	0.0	1
253	14	20	911660.38	0.0	0.0	-50.37	-77.95	-116.40	0.0	1
253	14	30	911670.38	0.0	0.0	-50.81	-78.01	-120.14	0.0	2
253	14	40	911680.38	0.0	0.0	-51.31	-78.05	-123.93	0.0	1
253	14	50	911690.38	0.0	0.0	-51.82	-78.10	-127.72	0.0	1
253	15	0	911700.38	0.0	0.0	-52.29	-78.13	-131.48	0.0	1
253	15	10	911710.38	0.0	0.0	-52.78	-78.15	-135.27	0.0	2
253	15	20	911720.38	0.0	0.0	-53.27	-78.17	-139.04	0.0	1
253	15	30	911730.38	0.0	0.0	-53.71	-78.19	-142.77	0.0	1
253	15	40	911740.38	0.0	0.0	-54.22	-78.20	-146.56	0.0	1
253	15	50	911750.38	0.0	0.0	-54.68	-78.19	-150.32	0.0	2
253	16	0	911760.38	0.0	0.0	-55.14	-78.19	-154.07	0.0	1
253	16	10	911770.38	0.0	0.0	-55.55	-78.18	-157.77	0.0	1
253	16	20	911780.38	0.0	0.0	-55.97	-78.16	-161.47	0.0	1
253	16	30	911790.38	0.0	0.0	-56.39	-78.12	-165.18	0.0	2
253	16	40	911800.38	0.0	0.0	-56.80	-78.10	-168.89	0.0	1
253	16	50	911810.38	0.0	0.0	-57.18	-78.06	-172.57	0.0	1
253	17	0	911820.38	0.0	0.0	-57.50	-78.02	-176.16	0.0	1
253	17	10	911830.38	0.0	0.0	-57.82	-77.97	-179.79	0.0	2
253	17	20	911840.38	0.0	0.0	-58.14	-77.92	-176.61	0.0	1
253	17	30	911850.38	0.0	0.0	-58.41	-77.87	-173.05	0.0	1
253	17	40	911860.38	0.0	0.0	-58.63	-77.81	-169.53	0.0	1
253	17	50	911870.38	0.0	0.0	-58.85	-77.75	-166.03	0.0	2
253	18	0	911880.38	0.0	0.0	-59.01	-77.69	-162.56	0.0	1
253	18	10	911890.38	0.0	0.0	-59.18	-77.64	-159.11	0.0	0
253	18	20	911900.38	0.0	0.0	-59.30	-77.57	-155.70	0.0	0
253	18	30	911910.38	0.0	0.0	-59.41	-77.51	-152.29	0.0	0
253	18	40	911920.38	0.0	0.0	-59.48	-77.44	-148.92	0.0	1
253	18	50	911930.38	0.0	0.0	-59.55	-77.38	-145.56	0.0	1
253	19	0	911940.38	0.0	0.0	-59.57	-77.31	-142.24	0.0	1
253	19	10	911950.38	0.0	0.0	-59.59	-77.25	-138.92	0.0	2
253	19	20	911960.38	0.0	0.0	-59.61	-77.18	-135.50	0.0	1
253	19	30	911970.38	0.0	0.0	-59.54	-77.11	-132.37	0.0	1
253	19	40	911980.38	0.0	0.0	-59.46	-77.06	-129.14	0.0	1
253	19	50	911990.38	0.0	0.0	-59.35	-77.00	-125.97	0.0	2
253	20	0	912000.38	0.0	0.0	-59.27	-76.94	-122.73	0.0	1
253	20	10	912010.38	0.0	0.0	-59.11	-76.89	-119.59	0.0	1
253	20	20	912020.38	0.0	0.0	-58.95	-76.84	-116.45	0.0	1
253	20	30	912030.38	0.0	0.0	-58.78	-76.79	-113.30	0.0	2
253	20	40	912040.38	0.0	0.0	-58.58	-76.74	-110.20	0.0	1
253	20	50	912050.38	0.0	0.0	-58.37	-76.69	-107.12	0.0	1
253	21	0	912060.38	0.0	0.0	-58.12	-76.65	-104.05	0.0	1
253	21	10	912070.38	0.0	0.0	-57.87	-76.63	-101.01	0.0	2
253	21	20	912080.38	0.0	0.0	-57.62	-76.60	-97.96	0.0	1