

DATA SET CATALOG #161

69-068A-01A,B,C,D,E,F

OSO-6 E.U.V. RASTER &
SCAN DATA 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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

OSO 6

E.U.V. RASTER SCAN

69-068A-01A

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED 51 9-TRACK, 800 BPI TAPES, WRITTEN IN BINARY. THERE ARE TWO RESTORED TAPES. THE DR AND DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON AN IBM 360 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR02291	DS02291	D06147	1	08/12/69 - 08/18/69
		D06148	2	08/18/69 - 08/20/69
		D06149	3	08/20/69 - 08/22/69
		D06150	4	08/22/69 - 08/25/69
		D06151	5	08/25/69 - 08/28/69 (a)
		D06152	6	08/28/69 - 08/30/69
		D06153	7	09/01/69 - 09/05/69
		D06154	8	09/05/69 - 09/08/69
		D06155	9	09/08/69 - 09/11/69
		D06156	10	09/11/69 - 09/16/69
		D06157	11	09/16/69 - 09/18/69
		D06703	12	09/18/69 - 09/21/69
		D06704	13	09/21/69 - 09/23/69
		D06705	14	09/23/69 - 09/25/69
		D06706	15	09/25/69 - 09/28/69 (b)
		D06707	16	09/28/69 - 10/01/69
		D06708	17	10/01/69 - 10/03/69
		D06709	18	10/03/69 - 10/06/69
		D07122	19	10/06/69 - 10/08/69
		D06710	20	10/08/69 - 10/11/69
		D06711	21	10/11/69 - 10/13/69
		D06833	22	10/13/69 - 10/15/69
		D06834	23	10/15/69 - 10/20/69
		D06835	24	10/20/69 - 10/22/69
		D06836	25	10/22/69 - 10/24/69
		D06837	26	10/24/69 - 10/26/69
		D06838	27	10/26/69 - 10/28/69
		D06839	28	10/28/69 - 10/31/69
		D07955	29	10/31/69 - 10/31/69
		D06840	30	11/03/69 - 11/08/69
		D06841	31	11/08/69 - 11/12/69
		D06842	32	11/12/69 - 11/17/69
		D06887	33	11/17/69 - 11/22/69
		D06888	34	11/22/69 - 11/25/69
		D06889	35	11/25/69 - 11/30/69
		D06890	36	11/30/69 - 12/12/69
		D07962	37	12/13/69 - 12/19/69

69-068A-01A

DR#	DS#	D#	FILES	TIME SPAN
DR02292	DS02292	D06891	1	12/21/69 - 01/30/70
		D06892	2	12/24/69 - 02/24/70 (c)
		D06893	3	02/07/70 - 02/26/70
		D06894	4	02/26/70 - 03/09/70
		D06895	5	03/10/70 - 03/30/70
		D07126	6	03/31/70 - 04/08/70
		D07123	7	04/01/70 - 04/15/70
		D07124	8	04/15/70 - 05/01/70
		D07125	9	04/30/70 - 05/02/70
		D07127	10	05/02/70 - 05/04/70
		D07128	11	05/04/70 - 05/06/70
		D07129	12	05/06/70 - 05/07/70
		D07130	13	05/07/70 - 05/09/70
		D07131	14	05/09/70 - 05/10/70

- (a) D006151 - 1 read error, record 33, File 1
(b) D006706 - 1 read error, record 96, File 1
(c) D006892 - 1 read error, record 48, File 1

OSO 6

300-1400A POINTED SPECTRAL SCANS

69-068A-01B

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED 15 9-TRACK, 800 BPI TAPES WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. THE DR AND DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON AN IBM 360 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR02357	DS02357	D07141	1	08/11/69 - 08/20/69
		D07142	2	08/20/69 - 08/30/69
		D07143	3	08/28/69 - 09/24/69 (a)
		D07144	4	09/23/69 - 09/25/69
		D07145	5	09/25/69 - 10/08/69
		D07146	6	10/08/69 - 10/28/69
		D07147	7	10/28/69 - 10/31/69
		D07148	8	11/03/69 - 11/24/69
		D07149	9	11/26/69 - 12/19/69
		D07956	10	12/21/69 - 01/30/70 (b)
		D07957	11	02/07/70 - 02/25/70
		D07958	12	03/02/70 - 03/09/70
		D07959	13	03/09/70 - 04/10/70
		D07960	14	04/22/70 - 04/30/70
		D07961	15	05/04/70 - 05/11/70

(a) D007143 - 1 error, record 47, File 1

(b) D007956 - 4 errors, record 45, 49, 53, 68 File 1

OSO 6

COMMAND LOGS

69-068A-01C

THIS DATA SET HAS BEEN RESTORED. ORIGINALLY IT CONTAINED 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 A 6400 COMPUTER AND WAS RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIME SPAN IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR004830	DS004830	D008845	1	08/12/69 - 05/12/70

OSO-6

March 7, 1970 Solar Eclipse Data

69-068A-01D

This data set has been restored. The original tape was 800 BPI, binary, 9-track. The DR and DS tape is 9-track, binary, and contains 1 file. The DR tape is a 3480 cartridge and the DS tape is 6250 BPI.

The DR, DS, and DD number along with the time spans are given as follows:

DR#	DS#	DD#	FILES	TIME SPAN
DR02910	DS02910	D-08821	1	03/07/70 - 03/08/70

OSO 6

COMMAND LOG SEARCH PROGRAM

69-068A-01E

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 a 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
-----	-----	-----	-----
DR004804	DS004804	D008822	1

OSO 6

CALIBRATION FACTOR COMPUTATION

69-068A-01F

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 a 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
-----	-----	-----	-----
DR004805	DS004805	D008823	1 - 2

OSO-6

69-068A-01(A,B,C,D,E & F)

EUV RASTER TAPES (A)

EUV SCAN TAPES (B)

COMMAND LOG TAPE (C)

MARCH 7, 1970 ECLIPSE DATA (D)

COMMAND LOG SEARCH PROGRAM (E)

FUNCTION BLANKEX & STANDARD DATA (F)

OSO-6 has been revised as outlined above. The two programs that have been added are 01E with the following characteristics: 556 BPI, BCD, 7track and 1 file, and 01F with the same characteristics but contains 2 files. The Eclipse data that has been added (01D) has been extracted from Raster tapes and is formatted the same as the 01A and 01B data sets.

<u>D#</u>	<u>C#</u>	<u>69-068A-01D</u>	<u>START</u>	<u>STOP</u>	<u># OF FILES</u>
D-08821	C-08027	3/07/70 -	3/08/70		1
		<u>69-068A-01E</u>			
D-08822	C-08028				1
		<u>69-068A-01F</u>			
D-08823	C-08029				2

E.U.V. RASTER & SCAN DATA TAPES

69-068A-01A

This data set consists of two parts, the Raster data set which consists of 57 tapes and the Scan data set which consists of 15 tapes. The only differing difference between the two are the physical characteristics of the tapes.

RECL = 830, Blksize = 6644

RECL = 6062, Blksize = 6066

Tapes were made on the IBM 360/75 and are 800 BPI, Binary and

Each tape contains only one file.

RASTER DATA

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-06147	C-05143	8/12/69	8/15/69
D-06148	C-05144	8/18/69	8/20/69
D-06149	C-05145	8/20/69	8/22/69
D-06150	C-05146	8/22/69	8/25/69
D-06151	C-05147	8/25/69	8/28/69
	C-05148	8/28/69	8/30/69
D-06152	C-05149	9/01/69	9/05/69
D-06153	C-05150	9/05/69	9/08/69
D-06154	C-05151	9/08/69	9/11/69
D-06155	C-05152	9/11/69	9/16/69
D-06156	C-05153	9/16/69	9/18/69
D-06157	C-04969	9/18/69	9/21/69
D-06158	C-04970	9/21/69	9/23/69
D-06159	C-04971	9/23/69	3/07/70
D-06160	C-04972	9/25/69	9/28/69

RASTER DATA (con't)

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-06707	C-04973	9/28/69	10/01/69
D-06708	C-04974	10/01/69	10/03/69
D-06709	C-04975	10/03/69	10/06/69
D-06710	C-05601	10/06/69	10/08/69
D-06711	C-04976	10/08/69	10/11/69
D-06712	C-04977	10/11/69	10/13/69
D-06833	C-05330	10/13/69	10/15/69
D-06834	C-05331	10/15/69	10/20/69
D-06835	C-05332	10/20/69	10/22/69
D-06836	C-05333	10/22/69	10/24/69
D-06837	C-05334	10/24/69	10/26/69
D-06838	C-05335	10/26/69	10/28/69
D-06839	C-05336	10/28/69	10/31/69
D-06840	C-05337	11/03/69	11/08/69
D-06841	C-05338	11/08/69	11/12/69
D-06842	C-05339	11/12/69	11/17/69
D-06887	C-05379	11/17/69	11/22/69
D-06888	C-05380	11/22/69	11/25/69
D-06889	C-05381	11/25/69	11/30/69
D-06890	C-05382	11/30/69	12/12/69
D-07962	C-05677	12/13/69	12/19/69
D-06891	C-05383	12/21/69	1/30/70
D-06892	C-05384	12/24/69	2/24/70
D-06893	C-05385	2/07/70	2/26/70
D-06894	C-05386	2/26/70	3/09/70
D-06895	C-05387	3/10/70	3/30/70
D-07100	C-05605	3/31/70	4/08/70

RASTER DATA (con't)

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-07123	C-05602	4/01/70	4/15/70
D-07124	C-05603	4/15/70	5/01/70
D-07125	C-05604	4/30/70	5/02/70
D-07127	C-05606	5/02/70	5/04/70
D-07128	C-05607	5/04/70	5-06/70
D-07129	C-05608	5/06/70	5/07/70
D-07955	C-05665	5/10/70	5/12/70
D-7130	C-5609	5/07/70	5/07/70
D-7131	C-5610	5/09/70	5/10/70
SCAN DATA			

<u>D#</u>	<u>C#</u>	<u>START</u>	<u>STOP</u>
D-07141	C-05613	8/11/69	8/20/69
D-07142	C-05614	8/20/69	8/30/69
D-07143	C-05615	8/28/69	9/24/69
D-07144	C-05616	9/23/69	9/25/69
D-07145	C-05617	9/25/69	10/08/69
D-07146	C-05618	10/08/69	10/28/69
D-07147	C-05619	10/28/69	10/31/69
D-07148	C-05620	11/03/69	11/24/69
D-07149	C-05621	11/26/69	12/19/69
D-07956	C-05666	12/21/69	1/30/70
D-07957	C-05667	2/07/70	2/25/70
D-07958	C-05668	3/02/70	3/09/70
D-07959	C-05669	3/09/70	4/10/70
D-07960	C-05670	4/22/70	4/30/70
D-07961	C-05671	5/04/70	5/11/70

69-068A-01B

Table 5

OSO-6 Final Data Tapes

Tape Number	First Record Date	Rasters		Last Record Date	Time
			Time		
L001/	Aug. 12, 1969	1911	Aug. 18, 1969	0207	
L002/	Aug. 18, 1969	0217	Aug. 20, 1969	0148	
L003/	Aug. 20, 1969	0544	Aug. 22, 1969	0115	
L004/	Aug. 22, 1969	0332	Aug. 25, 1969	0608	
L005/	Aug. 25, 1969	0734	Aug. 28, 1969	0925	
			<i>AUGUST 30, 1969</i>		
L005	Aug. 28, 1969	1622	<i>Sep. 1, 1969</i>	0654	
L007	Sep. 1, 1969	0730	Sep. 5, 1969	0113	
L008	Sep. 5, 1969	0324	Sep. 8, 1969	0650	
L009	Sep. 8, 1969	1348	Sep. 11, 1969	0918	
L010	Sep. 11, 1969	0956	Sep. 16, 1969	0008	
L011	Sep. 16, 1969	0011	Sep. 18, 1969	0914	
L012	Sep. 18, 1969	0951	Sep. 21, 1969	1437	
L013	Sep. 21, 1969	1439	Sep. 23, 1969	0803	
L014	Sep. 23, 1969	1410	Sep. 25, 1969	0735	
	Mar. 7, 1970	0323	<i>Mar. 8, 1970</i>	0441	
	(Note that some data appears in both Tapes 014 and 040.				
L015	Sep. 25, 1969	0948	Sep. 28, 1969	0516	
L016	Sep. 28, 1969	0602	Oct. 1, 1969	0231	
L017	Oct. 1, 1969	1027	Oct. 3, 1969	2035	
L018	Oct. 3, 1969	2043	Oct. 6, 1969	0903	
L019	Oct. 6, 1969	0908	Oct. 8, 1969	2143	
L020	Oct. 8, 1969	2145	Oct. 11, 1969	1228	
L021	Oct. 11, 1969	1230	Oct. 13, 1969	1158	
L022	Oct. 13, 1969	1202	Oct. 15, 1969	2138	
L023	Oct. 15, 1969	2319	Oct. 20, 1969	1421	
L024	Oct. 20, 1969	1454	Oct. 22, 1969	0423	
L025	Oct. 22, 1969	0456	Oct. 24, 1969	1554	
L026	Oct. 24, 1969	1557	Oct. 26, 1969	0639	
L027	Oct. 26, 1969	0712	Oct. 28, 1969	2026	
L028	Oct. 28, 1969	2100	Oct. 31, 1969	2115	
L029	Nov. 3, 1969	0829	Nov. 8, 1969	0813	
L030	Nov. 8, 1969	1026	Nov. 12, 1969	1753	
			<i>11/17/1969</i>		
L031	Nov. 12, 1969	1755	<i>Nov. 18, 1969</i>	1652	
L032	Nov. 17, 1969	0815	<i>Nov. 22, 1969</i>	0002	
L033	<u>Nov. 23, 1969</u>	0203	Nov. 25, 1969	0450	
L034	Nov. 25, 1969	0452	Nov. 30, 1969	0117	
L035	Nov. 30, 1969	0153	Dec. 12, 1969	1826	

OSO-6 Final Data Tapes (Cont.)

Number	First Record Date	Time	Last Record Date	Time
L036	12/13/1969 Dec. 12, 1969	1835	Dec. 19, 1969	0124
L037	Dec. 21, 1969	1432	Jan. 30, 1970	1737
L038	12/24/1969 Jan. 3, 1970	1038	Feb. 16, 1970	1120
L039	Feb. 17, 1970	0310	Feb. 26, 1970	0503
L040	2/07/70 Feb. 26, 1970	1836	Mar. 9, 1970	2113

(Note that some data appears in both Tapes 014 and 040.)

L042	Mar. 10, 1970	1540	Mar. 30, 1970	1319
L043	4/15/70 Apr. 1, 1970	0452	5/01/70 Apr. 15, 1970	0522
L044	Apr. 16, 1970	2320	Apr. 30, 1970	2003
L045	Apr. 30, 1970	2326	May 2, 1970	1929
L046	Mar. 31, 1970	0354	4/08/70 Apr. 7, 1970	0859
L047	May 2, 1970	1931	May 4, 1970	1304
L048	May 4, 1970	1340	May 6, 1970	0747
L049	May 6, 1970	0824	May 7, 1970	1623
L050	May 7, 1970	1626	May 9, 1970	1143
L051	May 9, 1970	1221	May 10, 1970	1713
L052	May 10, 1970	1715	May 12, 1970	1132

Spectral Scans

L101	Aug. 11, 1969	2347	8/30/69 Aug. 20, 1969	0535
L102	Aug. 20, 1969	0725	Aug. 28, 1969	0747
L103	Aug. 28, 1969	1142	9/24/69 Sep. 23, 1969	1022
L104	Sep. 23, 1969	1154	Sep. 25, 1969	0902
L105	Sep. 25, 1969	0945	Oct. 8, 1969	1708
L106	Oct. 8, 1969	2150	Oct. 28, 1969	1515
L107	Oct. 28, 1969	2330	Oct. 31, 1969	1302
L108	Nov. 3, 1969	2203	11/24/69 Nov. 23, 1969	2331
L109	Nov. 26, 1969	0253	Dec. 19, 1969	1315
L110	Dec. 22, 1969	0313	Dec. 26, 1969	1134
L112	12/27/1969 Jan. 3, 1970	1721	1/30/70 Feb. 25, 1970	0419
L113	2/07/70 Mar. 2, 1970	2254	Mar. 9, 1970	2226
L114	Mar. 9, 1970	2239	Apr. 10, 1970	0642
L115	Apr. 22, 1970	0201	Apr. 30, 1970	2140
L116	May 4, 1970	0939	May 11, 1970	1512

HARVARD COLLEGE OBSERVATORY
60 GARDEN STREET
CAMBRIDGE, MASSACHUSETTS 02138
U. S. A.

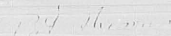
August 25, 1971

Mr. Joseph R. Johns
National Space Science Data
Code 601
Goddard Space Flight Center
Greenbelt, Maryland 20771

Dear Mr. Johns:

Enclosed, please find the final copy of the OSO-6 Data Tape format.
If you feel this is not sufficient as a replacement for all
previous formats sent to you, or if you have any questions
please contact Judy Smith or me.

Sincerely yours,



(Miss) Pat Thomas

PT:njp

May 5, 1971

J. Flagg

HARVARD COLLEGE OBSERVATORY
OSO-6 DATA TAPE FORMAT

Mode: binary
Tracks: 9
Density: 800 BPI
Record Type: variable-length
Word Type: 16 bit integers
Created on: IBM 360/65

DCB Parameters

Raster Tapes: RECFM=VSB, LRECL=830, BLKSIZE=6644, DEN=2.
Scan Tapes: RECFM=VS, LRECL=6062, BLKSIZE=6066, DEN=2.

Logical Record Contents: 16 bit integers

NUM, (LBL(I), I=1, 28), (IDATA(I), I=1, NUM)

Raster Tapes: NUM < 3072

Scan Tapes: NUM < 3191

LBL Array Contentsword

1	tape
2	run
3	record
4	input tape
5	station number
6	month
7	day
8	year
9	hour
10	minutes
11	seconds
12	milliseconds
13	GMT day
14	1 if center-pointing scan 2 if off-pointing scan 3 if small raster 4 if large raster
15	scan or raster number
16	part number
17	step position for IDATA(1)
18	step position for IDATA(NUM)
19	mechanical reference position
20	optical reference position
21	step position for HCO grating reading
22	HCO grating reading
23	elevation reading
24	azimuth reading
25-28	same as 21-24

IDATA Array Contents: NUM 16-bit integers

usual values of NUM:

384 small raster

3072 large raster (2 logical records/ large raster of
6144 points)

3000 scans (maximum of 4 logical records/scan)

Maximum value of IDATA(I) is $16383(2^{14}-1)$

The two most significant bits of IDATA(I) are flag bits:

1 2

0	0	normal data
---	---	-------------

1 1 optical reference

1 0 mechanical reference

0	1	doubtful data
---	---	---------------

0 1 dummy data (with 1's in bits 3-16)

HARVARD COLLEGE OBSERVATORY
60 GARDEN STREET
CAMBRIDGE, MASSACHUSETTS 02138

CABLE ADDRESS "OBSERVATORY"

AREA CODE 617 495-3967

11 June 1973

Mr. Joseph R. Johns
Code 601
National Space Science Data Center
Goddard Space Flight Center
Greenbelt, Maryland 20771

Reference: telephone conversation on June 5, 1973 regarding
OSO-6 Raster Tapes.

Dear Mr. Johns:

When attempting to convert the OSO-6 Raster tapes from an
IBM 360 to another machine one will often find non-standard
records. This usually occurs at the end of a file when the
data does not complete the last physical record and the 360
automatically fills any remaining space with "garbage data".

In order to avoid this problem I am enclosing a list of
records/file/tape. Please advise users to ignore any data follow-
ing the last data record found on this list. If you have any
questions regarding this please feel free to contact me.

Yours truly,

Pat Thomas

Pat Thomas

PT:kh
enc.

OSD B Master 1/100
List of records/file

Tape#	FILE	Records	Tape#	file	Records
1	1	12	14	1	1774
	2	347		2	713
	3	822		3	50
	4	105	15	1	275
	5	213		2	206
				3	512
2	1	112	16	1	151
	2	152		2	712
3	1	1720	17	1	1545
	2	122		2	630
4	1	964	18	1	1693
	2	1534		2	322
	3	850			
5	1	1700	19	1	1564
	2	1574		2	935
6	1	691	20	1	1712
	2	1368		2	515
	3	200			
7	1	1449	21	1	1792
	2	2266		2	362
8	1	1534	22	1	1869
	2	1147		2	201
9	1	838	23	1	300
	2	809		2	789
				3	1380
10	1	489	24	1	1819
	2	768			
	3	1489			
11	1	1051	25	1	2706
	2	848		2	461
12	1	2305	26	1	2306
	2	1424			
13	1	2146	27	1	2204
				2	801

time	file	Records
------	------	---------

28	1	942
	2	40

29	1	511
	2	1113
	3	653
	4	2289

30	1	1719
	2	5822
	3	1545

31	1	1765
	2	80
	3	2531

32	1	2238
	2	5011
	3	1812

33	1	2649
	2	1655

34	1	2615
	2	1822
	3	2233

35	1	1147
	2	74
	3	38
	4	66
	5	22
	6	152
	7	136
	8	1715
	9	745
	10	46

36	1	136
	2	66
	3	1245
	4	48
	5	240
	6	146
	7	854

tape#	file	Records
-------	------	---------

37	1	116
	2	20
	3	20
	4	20
	5	20
	6	20
	7	20
	8	20
	9	20
	10	20
	11	20
	12	20
	13	20
	14	20
	15	20
	16	20
	17	20
	18	20
	19	20
	20	20
	21	20
	22	20
	23	20
	24	20
	25	20
	26	20
	27	20
	28	20
	29	20

38	1	20
	2	20
	3	20
	4	20
	5	20
	6	20
	7	20
	8	20
	9	20
	10	20
	11	20
	12	20
	13	20

39	1	20
	2	20
	3	20
	4	20
	5	20
	6	20
	7	20

See tape 31
files 3-20

142

Tape #	File	Records
37(44)	8	See Tape 36 file 7
	9	118
	10	See Tape 38 files 10-11
	11	
	12	144
	13	0
	14	- See Tape 36 file 10
	15	158
	16	0
	17	- See Tape 38 files 10-11
	18	142
	19	0

40	1	144
	2	182
	3	0
	4	END DATA
	5	118
	6	122
	7	42
	8	322
	9	356
	10	32
	11	0

42	1	156
	2	136
	3	24
	4	130
	5	144
	6	150
	7	176
	8	62
	9	188
	10	368
	11	58
	12	630
	13	2
	14	155
	15	0

43	1	102
	2	36
	3	0
	4	142
	5	16
	6	566
	7	40
	8	124
	9	140
	10	140
	11	0

Tape 46 file 4

Tape #	File	Records
44	1	138
	2	140
	3	128
	4	78
	5	3
	6	30
	7	110
	8	0
	9	0
	10	150
	11	312
45	1	2782
46	1	220
	2	0
	3	144
	4	24
47	1	2932
48	1	2236
49	1	1812
50	1	2423
51	1	1253
52	1	7531

6

[illegible]

REC 5. LENGTH 1564

REC 5. LENGTH 1564

[illegible]

[illegible]

Track

8/26/69

D-7141

68-068A-01B

[illegible]

• LENGTH 3666

[illegible]

OSO-6

69-068A-01C

COMMAND LOG DATA

This data set consists of one tape 556 BPI created on the CDC 6400
in BCD format - Standard CDC 'SCOPE' format - with 512 words
per physical record ending with 6 bytes of SCOPE EOR, 7-track
with one file

D#

D-08845

C#

C-06990

8/12/69 - 5/12/70

HARVARD COLLEGE OBSERVATORY
60 Garden Street - Room P 234
CAMBRIDGE, MASSACHUSETTS 02138

8 June 1972

Mr. Joseph R. Johns
Code 601
National Space Science Data Center
Goddard Spaceflight Center
Greenbelt, Maryland 20771

Dear Mr. Johns:

The attached package contains the OSO-6 command log tape. The format of this tape is as follows:

556 BPI created on CDC 6400.
BCD Format
8A10 = 1 Logical Record
60 Bit words, 6 Bit Bytes
1 File
Standard CDC 'Scope' Format
512 words per Physical Record ending with 6 Bytes of
(1) Scope EOR.

If the above information is not sufficient or if you have any problems - please contact Judy Smith (1-617-495-5435) or me (1-617-495-3358).

Thank you

Pat Thomas

Pat Thomas

PT:kh

P.S. Please return this tape to above address after it has been copied.

IDENTIFICATION SYMBOLS FOR OBSERVATION CATEGORIES (COLUMNS 9-19
OF COMMENT CARDS)

A ACTIVE REGION
 C SPALS OR LS AT OP IN QUIET REGION NEAR CENTER
 D CONTAINS DUBBLES DATA
 E ECLIPSE OBSERVATION
 F FILAMENT
 G SPECIAL PURPOSE PROGRAM
 H CORONAL HOLE
 I IP SEQUENCE
 K CALIBRATION
 L LIMB DARKENING
 M FLARE MONITOR
 N CHROMOSPHERIC NETWORK
 O OSCILLATIONS
 P PROMINENCE
 Q QUIET SUN STUDY
 R SCANS ABOVE LIMB (R GTR. 1)
 SXX FLARE SEEN, FOLLOWED BY FLARE CLASSIFICATION (EG S1H)
 T SUNSPOT
 U SURGE
 V VELOCITY FIELDS
 W WAVELENGTH MONITOR IN OP
 X DAILY MG X LR
 Y H V OFF
 Z USELESS DATA

ASD-6
 Command Log
 69-060A-010

Topo was Dup'd on 7th 2004

8/12/69 - 5/12/70

C
 COMMANDS

331 OR 406 WAVELENGTH SCAN
 338 OR 342 WAVELENGTH RESET
 339 OR 342 RESET OVERSIDE
 344 OR 346 OPTICAL REF
 345 OR 347 MECHANICAL REF
 348 OR 352 MOTOR START
 349 OR 353 POSITION SEL 1
 354 POSITION SEL 2
 351 OR 355 POSITION SEL 3
 360 POSITION SEL 4
 356 OR 362 POSITION SEL 5
 365 POSITION SEL 6
 357 OR 363 POSITION SEL 7
 361 POSITION SEL 8
 358 OR 364 POSITION SEL 9
 366 POSITION SEL 10
 359 POSITION SEL 11
 365 POSITION SEL 12
 362 POSITION SEL 13
 367 POSITION SEL 14

POINTING CONTROL COMMANDS

IDENTIFICATION SYMBOLS FOR OBSERVATION CATEGORIES (COLUMNS 9-19
OF COMMENT CARDS)

A	ACTIVE REGION
C	CP+LS OR LS AT CP IN QUIET REGION NEAR CENTER
D	CONTAINS DUBIOUS DATA
E	ECLIPSE OBSERVATION
F	FILAMENT
G	SPECIAL PURPOSE PROGRAM
H	CORONAL HOLE
I	IP SEQUENCE
K	CALIBRATION
L	LIMB DARKENING
M	FLARE MONITOR
N	CHROMOSPHERIC NETWORK
O	OSCILLATIONS
P	PROMINENCE
Q	QUIET SUN STUDY
R	SCANS ABOVE LIMB (E GTR. 1)
SXX	FLARE SEEN, FOLLOWED BY FLARE CLASSIFICATION (EG S10)
T	SUNSPOT
U	SURGE
V	VELOCITY FIELDS
W	WAVELENGTH MONITOR IN CP
X	DAILY MC X LR
Y	H V OFF
Z	USELESS DATA

COMMON ABBREVIATIONS

SR	SMALL RASTER
LR	LARGE RASTER
OP	OFFSET POINT
CP	CENTER POINT
LS	LAMBDA SCAN
MR	WAVELENGTH SELECT VIA MECH. REFERENCE
LL	WAVELENGTH SELECT VIA LINE TO LINE
AR	ACTIVE REGION, IDENTIFIED BY AIR FORCE REGION
	NUMBER FOLLOWING
MMR	ACTIVE REGION, IDENTIFIED BY MCWATH REGION
	NUMBER FOLLOWING
IP SEQ	IONIZATION POTENTIAL SEQUENCE

ELECTRICAL POWER COMMANDS

335,435 OR 535	LV ON
320,430 OR 530	LV AND HV PWR OFF
567	HARVARD INSTRUMENT ON
367,467 OR 416	HV PWR OR HV OFF
337 OR 341	OVERLOAD PROTECTION ENABLE
336 OR 340	OVERLOAD PROTECTION BYPASS
417	HV DAY SELECT
418	HV LAUNCH SELECT

WAVELENGTH SELECTOR C

OMMANDS

331 OR 408	WAVELENGTH SCAN
338 OR 342	WAVELENGTH RESET
339 OR 343	RESET CVERRIDE
344 OR 346	OPTICAL REF
345 OR 347	MECHANICAL REF
348 OR 352	MOTOR START
349 OR 353	POSITION SEL 1
354	POSITION SEL 2
351 OR 355	POSITION SEL 3
360	POSITION SEL 4
356 OR 362	POSITION SEL 5
366	POSITION SEL 6
357 OR 363	POSITION SEL 7
361	POSITION SEL 8
358 OR 364	POSITION SEL 9
326	POSITION SEL 10
359	POSITION SEL 11
325	POSITION SEL 12
365	POSITION SEL 13
327	POSITION SEL 14

POINTING CONTROL COMMANDS

369,469 OR 569	OFFSET MODE OFF/POINT MODE ON
370,470 OR 570	OFST MODE ON/ LG RSTR CN
413	OFFSET POINT ON/ LARG

E RASTER OFF

414	OFST GEN RST
415	SMALL RSTR CN
466	AZ VERNIER CFST BIT (RIGHT)
407	AZ CFST BIT 1 (LSB)
419	AZ CFST BIT 2
441	AZ CFST BIT 3
427	AZ CFST BIT 4
460	AZ CFST BIT 5
404	AZ CFST BIT 6
465	EL VERNIER CFST BIT (UP)
401	EL CFST BIT 1 (LSB)
421	EL CFST BIT 2
448	EL CFST BIT 3
456	EL CFST BIT 4
425	EL CFST BIT 5
455	EL CFST BIT 6

08/12/69

00053 SUNRISE 1830 SUNSET 1935 SUNRISE 2005 SUNSET 2110 SUNRISE 2140

00054C G

TURN ON SEQUENCE

00054 ORDRAL 08/12/69 2149 X= ,Y=
00054 LOW VOLTAGE ON: 535.
00054 417, 341, 337, 343, 345, 567, 416
00054 SUNSET 2245 SUNRISE 2315

00055C G DITTO
00055 ORDRAL 08/12/69 2329 X= ,Y=
00055 337, 567, 416

08/13/69

00056C G DITTO
00056 FTMYRS 08/13/69 0007 X= ,Y=
00056 NO HCO COMMANDS
00056 SUNSET 20 SUNRISE 50

00056C G DITTO
00056 ORDRAL 08/13/69 0109 X= ,Y=
00056 070, 413, 567, 416
00056 SUNSET 155 SUNRISE 225

00058C G DITTO
00058 FTMYRS 08/13/69 0328 X= ,Y=
00058 NO HCO COMMANDS
00058 SUNSET 330 SUNRISE 400

00058C G DITTO
00058 JJBURG 08/13/69 0402 X= ,Y=
00058 R.V. ON: 567, 416
00058 SUNSET 505

00059C G DITTO
00059 FTMYRS 08/13/69 0509 N X= ,Y=
00059 NO HCO COMMANDS
00059 SUNRISE 536

00059C G DITTO
00059 JJBURG 08/13/69 0542 X= ,Y=
00059 R.V. ON: 567, 460, 427, 441, 419, 407, 466, 455, 455
00059 SUNSET 640

00060C G DITTO
00060 FTMYRS 08/13/69 0649 N X= ,Y=
00060 NO HCO COMMANDS
00060 SUNRISE 711 SUNSET 815

00061C G DITTO
00061 QUITJE 08/13/69 0835 N X= ,Y=
00061 NO HCO COMMANDS
00061 SUNRISE 846 SUNSET 950

04180 SUNRISE 1943 SUNSET 2043

04181C AM MMR 725
04181 JJBURG 05/11/70 2048 SR X=35.5,Y=17.0 IN LY A 1216 BY MR 2164 TO 2164
04181 NO HCO COMMANDS
04181 2 AZ= 35.5 EL= 17.0 LAT= 9.0N, LCNG= 49.3W, MU= .634 PSI= 284.66
04181 SUNRISE 2118 SUNSET 2218

04182C AM MMR 725
04182 JJBURG 05/11/70 2229 SR X=35.5,Y=17.0 IN LY A 1216 BY MR 2164 TO 2164
04182 NO HCO COMMANDS
04182 2 AZ= 35.5 EL= 17.0 LAT= 9.0N, LCNG= 49.3W, MU= .634 PSI= 284.70
04182 SUNRISE 2253

04183C AM MMR 725
04183 SNTAGO 05/11/70 2346 SR X=35.5,Y=17.0 IN LY A 1216 BY MR 2164 TO 2164
04183 NO HCO COMMANDS
04183 2 AZ= 35.5 EL= 17.0 LAT= 9.1N, LCNG= 49.3W, MU= .634 PSI= 284.75
04183 SUNSET 2353

05/12/70

04183C AM MMR 725
04183 JJBURG 05/12/70 0011 SR X=35.5,Y=17.0 IN LY A 1216 BY MR 2164 TO 2164
04183 NO HCO COMMANDS
04183 2 AZ= 35.5 EL= 17.0 LAT= 9.1N, LCNG= 49.3W, MU= .634 PSI= 284.75
04183 SUNRISE 28

04184C AM MMR 725
04184 SNTAGO 05/12/70 0127 SR X=35.5,Y=17.0 IN LY A 1216 BY MR 2164 TO 2164
04184 NO HCO COMMANDS
04184 2 AZ= 35.5 EL= 17.0 LAT= 9.1N, LCNG= 49.2W, MU= .634 PSI= 284.79
04184 SUNSET 128 SUNRISE 203 SUNSET 302

04185C AM MMR 725
04185 SNTAGO 05/12/70 0307 SR X=35.5,Y=17.0 IN LY A 1216 BY MR 2164 TO 2164
04185 NO HCO COMMANDS
04185 2 AZ= 35.5 EL= 17.0 LAT= 9.1N, LCNG= 49.2W, MU= .634 PSI= 284.84
04185 SUNRISE 338 SUNSET 437

04186C AM MMR 725
04186 SNTAGO 05/12/70 0448 SR X=35.5,Y=17.0 IN LY A 1216 BY MR 2164 TO 2164
04186 NO HCO COMMANDS
04186 2 AZ= 35.5 EL= 17.0 LAT= 9.2N, LCNG= 49.2W, MU= .634 PSI= 284.88
04186 SUNRISE 513 SUNSET 613

04187C AM MMR 725
04187 QUITOE 05/12/70 0632 SR X=35.5,Y=17.0 IN LY A 1216 BY MR 2164 TO 2164
04187 NO HCO COMMANDS

04187 2 AZ= 35.5 EL= 17.0 LAT= 9.2N, LCNG= 49.2W, MU= .634 PSI= 284.93
04187 SUNRISE 646

04188C AM MMR 725
04188 ORDRAL 05/12/70 0737 SR X=35.5,Y=17.0 IN LY A 1215 BY MR 2164 TO 2164
04188 NO HCO COMMANDS
04188 2 AZ= 35.5 EL= 17.0 LAT= 9.3N, LCNG= 49.2W, MU= .634 PSI= 284.98
04188 SUNSET 748

04188C AM MMR 725
04188 QUITOE 05/12/70 0811 SR X=35.5,Y=17.0 IN LY A 1216 BY MR 2164 TO 2164
04188 NO HCO COMMANDS
04188 2 AZ= 35.5 EL= 17.0 LAT= 9.3N, LCNG= 49.2W, MU= .634 PSI= 284.98
04188 SUNRISE 823

04189C AM MMR 725
04189 ORDRAL 05/12/70 0917 SR X=35.5,Y=17.0 IN LY A 1216 BY MR 2164 TO 2164
04189 NO HCO COMMANDS
04189 2 AZ= 35.5 EL= 17.0 LAT= 9.3N, LCNG= 49.2W, MU= .634 PSI= 285.02
04189 SUNSET 923 SUNRISE 1057

04190C AM MMR 725
04190 ORDRAL 05/12/70 1057 SR X=35.5,Y=17.0 IN LY A 1216 BY MR 2164 TO 2164
04190 NO HCO COMMANDS
04190 2 AZ= 35.5 EL= 17.0 LAT= 9.3N, LCNG= 49.2W, MU= .634 PSI= 285.07
04190 SUNRISE 1123

04191C AM MMR 725
04191 FMYRS 05/12/70 1135 SR X=35.5,Y=16.0 IN LY A 1216 BY MR 2164 TO 2164
04191 414,404,410,466,456,446,421,401,415
04191 2 AZ= 35.5 EL= 16.0 LAT= 10.9N, LCNG= 53.5W, MU= .572 PSI= 285.81
04191 SUNSET 1232

04191C AM MMR 725
04191 ORDRAL 05/12/70 1237 SR X=35.5,Y=16.0 IN LY A 1216 BY MR 2164 TO 2164
04191 NO HCO COMMANDS
04191 2 AZ= 35.5 EL= 16.0 LAT= 10.9N, LCNG= 53.5W, MU= .572 PSI= 285.81
04191 SUNRISE 1308

04192C AM MMR 725
04192 FMYRS 05/12/70 1316 SR X=35.5,Y=16.0 IN LY A 1216 BY MR 2164 TO 2164
04192 NO HCO COMMANDS
04192 2 AZ= 35.5 EL= 16.0 LAT= 10.9N, LCNG= 53.4W, MU= .572 PSI= 285.86
04192 SUNSET 1407

04192C AM MMR 725
04192 ORDRAL 05/12/70 1418 SR X=35.5,Y=16.0 IN LY A 1216 BY MR 2164 TO 2164
04192 N
0 HCO COMMANDS
04192 2 AZ= 35.5 EL= 16.0 LAT= 10.9N, LCNG= 53.4W, MU= .572 PSI= 285.86
04192 SUNRISE 1443

04193C AM MMR 725
04193 RJSHAN 05/12/70 1456 SR X=31.0,Y=19.5 IN LY A 1216 BY MR 2164 TO 2164
04193 414,466,427,441,419,425,421,401,465,415

04193 2 AZ= 31.0 EL= 19.5 LAT= 16.9N, LONG= 34.6W, MU= .768 PSI= 301.88

04193C AM MMR 725

04193 JBBURG 05/12/70 1529 SR X=31.0,Y=19.5 IN LY A 1216 BY MR 2164 TO 2164

04193 NO HCD COMMANDS

04193 2 AZ= 31.0 EL= 19.5 LAT= 16.9N, LONG= 34.6W, MU= .768 PSI= 301.88

04193 SUNSET 1542 SUNRISE 1618

04194C AM MMR 725

04194 PTMYRS 05/12/70 1637 SR X=31.0,Y=19.5 IN LY A 1216 BY MR 2164 TO 2164

04194 NO HCD COMMANDS

04194 2 AZ= 31.0 EL= 19.5 LAT= 16.9N, LONG= 34.6W, MU= .768 PSI= 301.93

04194C AM MMR 725

04194 JBBURG 05/12/70 1710 SR X=31.0,Y=19.5 IN LY A 1216 BY MR 2164 TO 2164

04194 NO HCD COMMANDS

04194 2 AZ= 31.0 EL= 19.5 LAT= 16.9N, LONG= 34.6W, MU= .768 PSI= 301.93

04194 SUNSET 1717 SUNRISE 1753

04195C AM MMR 725

04195 PTMYRS 05/12/70 1818 SR X=31.0,Y=19.5 IN LY A 1216 BY MR 2164 TO 2164

04195 NO HCD COMMANDS

04195 2 AZ= 31.0 EL= 19.5 LAT= 17.0N, LONG= 34.6W, MU= .768 PSI= 301.97

04195C Y MMR 725

04195 JBBURG 05/12/70 1851 CP X= ,Y= IN H V OFF BY MR 900 TO 900

04195 345,339,338,351,360,356,366,357,359,325,365,327,348,569(3 MIN) 416

04195 (569 SENT 20 SEC BEFORE 345)

04195 SCIENTIFIC OPERATION OF INSTRUMENT TERMINATED DUE TO LOW SENSITIVITY OF

04195 DETECTION SYSTEM AND FACT THAT EXISTING DATA ACCOMPLISHES SCIENTIFIC

04195 OBJECTIVES.

04195 2 AZ= 32.1 EL= 33.0 LAT= 3.5S, LONG= 0.0, MU= 1.000

RB2660

SATELLITE NAME:

OSO-6

DATA SET ID:

69-068A-01B

DATE:

October 18, 1972

OBJECTIVE:

To merge two OSO tapes eliminating overlap.

DESCRIPTION:

This routine eliminates the overlap data between the OSO ECLIPSE data tapes and places the data on one tape.

INPUT:

TAPE:

Logical units 8. First OSO tape 800 BPI, Binary, IBM 360, 9-track. Logical unit 9. Second OSO tape 800 BPI, Binary, IBM, 9-track.

OUTPUT:

TAPE:

Logical unit 10, 800 BPI, 9-track, Binary, IBM 360.

SUBROUTINES REQUIRED:

None

1. LENGTH 6644

69-068A-01D

START
3/07/70

STOP 3/08/70

[illegible]

REC 2, LENGTH 6644

REC 2, LENGTH 6644

[illegible]

REC 3, LENGTH 6644

REC 4 : LENGTH 6644

REC 4 : LENGTH 6644

[illegible]

REG

[illegible]

[illegible]

[illegible]

PROGRAM SEARCH (INPUT,OUTPUT,TAPE?)

DIMENSION MOD(1),ICARD(20,15),IM(10),IE(10)

DATA (MOD(1),1=1,5),ZMLR,2HSE,2HCP,2HCF,2H

M0=1

M1=1

M2=1

M3=1

M4=1

M5=1

M6=1

M7=1

M8=1

M9=1

M10=1

REWIND 1

C READS IN SEARCH REQUIREMENTS AND PRINTS OUT HEADING

PRINT 595

599 FORMAT(=1*,//,////,40X,*SEARCH THROUGH THE QSO-VI COMMAND LOG//)

READ 1,ICD,1,D,1,E,IDE,Z,.,L,LC,CR,DNT,ATLL,

REC	1, LENGTH	84
REC	2, LENGTH	84
REC	3, LENGTH	84
REC	4, LENGTH	84
REC	5, LENGTH	84
REC	6, LENGTH	84
REC	7, LENGTH	84
REC	8, LENGTH	84
REC	9, LENGTH	84
REC	10, LENGTH	84
REC	11, LENGTH	84
REC	12, LENGTH	84
REC	13, LENGTH	84
REC	14, LENGTH	84
REC	15, LENGTH	84
REC	16, LENGTH	84
REC	17, LENGTH	84
REC	18, LENGTH	84
REC	19, LENGTH	84
E	20	T 8

X-547

DATE OF 69-068A-01E
556 BCD Hs. 1/16

PROGRAM SEARCH (INPUT,OUTPUT,TAPE2)

DIMENSION MOD(5),ICARD(20,15),IM(10),IC(10)

DATA (MOD(I),I=1,5)/2HLD,2HSP,2HCP,2HCF,2H /

M0=1

M1=1

M2=1

M3=1

M4=1

M5=1

M6=1

M7=1

M8=1

M9=1

M10=1

REWIND 2

C

C READS IN SEARCH REQUIREMENTS AND PRINTS OUT HEADING

PRINT 595

599 FORMAT(*1*,////////,40X,*SEARCH THROUGH THE OSQ-VI COMMAND LOG**/)

READ 1 IC0 I DI E IDE Z , , L , LD , CR , DNT,ATLL,

REC	1, LENGTH	84
REC	2, LENGTH	84
REC	3, LENGTH	84
REC	4, LENGTH	84
REC	5, LENGTH	84
REC	6, LENGTH	84
REC	7, LENGTH	84
REC	8, LENGTH	84
REC	9, LENGTH	84
REC	10, LENGTH	84
REC	11, LENGTH	84
REC	12, LENGTH	84
REC	13, LENGTH	84
REC	14, LENGTH	84
REC	15, LENGTH	84
REC	16, LENGTH	84
REC	17, LENGTH	84
REC	18, LENGTH	84
REC	19, LENGTH	84
E	20 T	8

X-347

DATA OF 69-068A-01E
556 BCD H. 1/12

C

C IF ANOTHER SEARCH IS REQUESTED, START AT 1.

1000 IF (CONY-SH)1,1001,1

1001 STOP

END

REC	1, LENGTH	84
REC	2, LENGTH	84
REC	3, LENGTH	84
REC	4, LENGTH	84
REC	5, LENGTH	84

PROGRAM SEARCH (INPUT,OUTPUT,TAPE2)

DIMENSION MOD(5),ICARD(20,15),IM(10),IC(10)

DATA (MOD(I),I=1,5)/2HLR,2HSR,2HCP,2HCF,2H /

M0=1

M1=1

M2=1

M3=1

M4=1

M5=1

M6=1

M7=1

M8=1

M9=1

M10=1

REWIND 2

C

C READS IN SEARCH REQUIREMENTS AND PRINTS OUT HEADING

PRINT 599

599 FORMAT(*1,////////,40X,*SEARCH THROUGH THE OSC-VI COMMAND LOG//)

READ 10,ICOM,IMOD,ISTPR,IDEL,AZL,AZH,BLL,BLH,LORB,IORB,CONT,ATLL,

IDATLL,ALEH,DATLL,ENGLL,OCNGLL,ONGSL,DOXGLL,UMC,UMH,PSLL,PSIH,HTL,

T

REC 1. LENGTH 84

REC 2. LENGTH 84

REC 3. LENGTH 84

REC 4. LENGTH 84

REC 5. LENGTH 84

REC 6. LENGTH 84

REC 7. LENGTH 84

REC 8. LENGTH 84

REC 9. LENGTH 84

REC 10. LENGTH 84

REC 11. LENGTH 84

REC 12. LENGTH 84

REC 13. LENGTH 84

REC 14. LENGTH 84

REC 15. LENGTH 84

REC 16. LENGTH 84

REC 17. LENGTH 84

REC 18. LENGTH 84

REC 19. LENGTH 84

REC 20. LENGTH 84

REC 21. LENGTH 84

REC 22. LENGTH 84

X-545

69-68A-01E
ORIGINAL CARD TO TAPE

1 FILE

C
C IF ANOTHER SEARCH IS REQUESTED, START AT 1.

1000 IF (CONT=5H) 1,1001,1

1001 STOP

END

REC	1, LENGTH	84
REC	2, LENGTH	84
REC	3, LENGTH	84
REC	4, LENGTH	84
REC	5, LENGTH	84

FUNCTION BLKBOX(WL,ORBIT)

FUNCTION BLKBOX(WL,ORBIT)

CALIBRATION EXTENDED THROUGH ORBIT 4000. JULY 9, 1971.

CALIBRATION EXTENDED THROUGH ORBIT 4000. JULY 9, 1971.

C J.S., 5/20/70--REVISED TO USE AS FUNCTION SUBPROGRAM FOR PROG. SCANSCT--

C (CALCULATES K1, GIVEN ORBIT AND WAVELENGTH)

C REVISED 6/11/70--J.S.

C J.S., 12-17-71. INTERPOLATION TABLE FOR ORBITS GT 1200 EXTENDED THRU ORBIT

C 4000, BASED ON 7-8-71 CHANGE TO PROGRAM BLKBOX.

COMMON/A01/X

X=ORBIT

IF(X.GT.1200.) X=1200.

IF(WL=304.) 1,2,3

C C104 = 304.4--

2 XK1=XK(25)

GO TO 24

1 C304=(Y(24)-Y(25))/31.

C3044=Y(25)-C304*304.

XK1=C304/60304*WL

GO TO 23

W

X-550

69-062A -OIF

536 800 H (7/1/70)

REC	1. LENGTH	84
REC	2. LENGTH	84
REC	3. LENGTH	84
REC	4. LENGTH	84
REC	5. LENGTH	84
REC	6. LENGTH	84
REC	7. LENGTH	84
REC	8. LENGTH	84
REC	9. LENGTH	84
REC	10. LENGTH	84
REC	11. LENGTH	84
REC	12. LENGTH	84
REC	13. LENGTH	84
REC	14. LENGTH	84
REC	15. LENGTH	84
REC	16. LENGTH	84
REC	17. LENGTH	84
REC	18. LENGTH	84
REC	19. LENGTH	84
REC	20. LENGTH	84
REC	21. LENGTH	84
R	E G H	

FUNCTION YPM(X2,X1,Y2,Y1,X)

SLOPE=(Y2-Y1)/(X2-X1)

YPM=SLOPE*(X-X2)+Y2

RETURN

END

REC	1, LENGTH	84
REC	2, LENGTH	84
REC	3, LENGTH	84
REC	4, LENGTH	84
REC	5, LENGTH	84

1 3.614E-01 1.287E-01-1.190E-01-2.638E-01-3.246E-01-2.357E-01-7.970E-02
 -1.196E-02 3.124E-02 4.777E-02 3.407E-02 8.662E-03-3.738E-02-8.889E-02-1.309E-01
 -1.473E-01-1.367E-01-8.893E-02-3.970E-02-1.189E-03 1.218E-02-1.051E-02-7.603E-02
 -1.698E-01-1.938E-01 8.364E-03 3.617E-01
 2 4.156E-01 1.556E-01-9.738E-02-2.967E-01-2.567E-01-1.397E-01-4.642E-02
 7.569E-03 3.968E-02 4.851E-02 3.573E-02 4.978E-03-3.749E-02-8.183E-02-1.149E-01
 -1.246E-01-1.069E-01-6.980E-02-2.827E-02 2.351E-03 9.547E-03-1.629E-02-7.955E-02
 -1.626E-01-1.741E-01 1.873E-02 3.509E-01
 3 4.544E-01 1.481E-01-1.086E-01-2.409E-01-1.379E-01-7.299E-02-1.278E-02
 2.250E-02 5.040E-02 5.051E-02 3.264E-02 1.448E-03-3.677E-02-7.282E-02-9.630E-02
 -9.951E-02-8.157E-02-6.185E-02-1.021E-02 2.759E-03 3.620E-03-2.260E-02-7.778E-02
 -1.435E-01-1.474E-01 1.038E-02 2.958E-01
 4 4.615E-01 1.488E-01-6.449E-02-1.922E-01-1.632E-01-6.266E-02 1.649E-02
 4.691E-02 5.804E-02 5.201E-02 3.234E-02 3.407E-03-2.701E-02-5.309E-02-6.758E-02
 -6.689E-02-5.253E-02-3.062E-02-5.531E-03 2.479E-03-1.463E-03-2.584E-02-6.958E-02
 -1.169E-01-1.182E-01-4.880E-03 8.229E-01
 5 4.583E-01 1.407E-01-7.777E-02-1.717E-01-1.152E-01-2.992E-02 3.150E-02
 5.471E-02 6.059E-02 5.202E-02 3.297E-02 5.310E-03-1.637E-02-3.548E-02-4.474E-02
 -4.278E-02-3.172E-02-1.743E-02-2.990E-03 2.749E-03-3.914E-03-2.553E-02-6.005E-02
 -9.487E-02-9.732E-02-2.790E-02 1.693E-01
 6 3.073E-01 7.755E-02-5.032E-02-8.466E-02-2.988E-02 2.039E-02 4.666E-02
 5.817E-02 5.743E-02 4.610E-02 3.425E-02 1.978E-02 7.942E-03 7.711E-04-1.293E-03

REC 1, LENGTH 84
 REC 2, LENGTH 84
 REC 3, LENGTH 84
 REC 4, LENGTH 84
 REC 5, LENGTH 84
 REC 6, LENGTH 84
 REC 7, LENGTH 84
 REC 8, LENGTH 84
 REC 9, LENGTH 84
 REC 10, LENGTH 84
 REC 11, LENGTH 84
 REC 12, LENGTH 84
 REC 13, LENGTH 84
 REC 14, LENGTH 84
 REC 15, LENGTH 84
 REC 16, LENGTH 84
 REC 17, LENGTH 84
 REC 18, LENGTH 84
 REC 19, LENGTH 84
 REC 20, LENGTH 84
 REC 21, LENGTH 84
 REC 22, LENGTH 84

750.00	800.00	850.00	900.00	950.00	1000.00	1050.00
1100.00	1150.00	1200.00	1300.00	1400.00	1500.00	1600.00
1700.00	1800.00	1900.00	2000.00	2200.00	2400.00	2500.00
2600.00	2800.00	2900.00	3000.00	3200.00	3400.00	3600.00
3800.00	4000.00	4050.00	4100.00	4150.00	4200.00	

REC	1, LENGTH	84
REC	2, LENGTH	84
REC	3, LENGTH	84
REC	4, LENGTH	84
REC	5, LENGTH	84

FUNCTION BLK1X(WL,ORBIT)

FUNCTION BLK2X(WL,ORBIT)

CALIBRATION EXTENDED THROUGH ORBIT 4000. JULY 9, 1971.

C J.S., 5/20/70--REVISED TO USE AS FUNCTION SUBPROGRAM FOR PROG. SCANSCT--

C (CALCULATES K1, GIVEN ORBIT AND WAVELENGTH)

C REVISED 6/11/70--J.S.

C J.S., 12-17-71. INTERPOLATION TABLE FOR ORBITS GT 1200 EXTENDED THRU ORBIT

C 4000. BASED ON 7-10-71 CHANGE TO PROGRAM BLK2X.

COMMON/ALYA

X=ORBIT

IF(X.GT.1200.) X=1200.

IF(AL=304.) 1,2,3

C LT OR = 1047.--

2 XK1=XK(25)

GO TO 24

1 C304=(Y(24)-Y(25))/3.

C304=X(25)-C304*104.

XK1=C304*6C304*AL

GO TO 23

3 IF(WL=1335.) 4,5,6

C GT OR = 1335A.--

5 XK1=XK(11)

GO TO 24

6 C1335=(Y(11)-Y(21))/10.

C1335=X(21)-C1335*1335.

XK1=C1335*6C1335*AL

GO TO 23

C GT 304 AND LT 1335 A.--

4 CALL GO1(WL,XK1)

REC	1, LENGTH	84
REC	2, LENGTH	84
REC	3, LENGTH	84
REC	4, LENGTH	84
REC	5, LENGTH	84
REC	6, LENGTH	84
REC	7, LENGTH	84
REC	8, LENGTH	84
REC	9, LENGTH	84
REC	10, LENGTH	84
REC	11, LENGTH	84
REC	12, LENGTH	84
REC	13, LENGTH	84
REC	14, LENGTH	84
REC	15, LENGTH	84
REC	16, LENGTH	84
REC	17, LENGTH	84
REC	18, LENGTH	84
REC	19, LENGTH	84
REC	20, LENGTH	84
REC	21, LENGTH	84
REC	22, LENGTH	84
REC	23, LENGTH	84
REC	24, LENGTH	84
REC	25, LENGTH	84
REC	26, LENGTH	84
REC	27, LENGTH	84
REC	28, LENGTH	84
REC	29, LENGTH	84
REC	30, LENGTH	84

X-551

DATE OF 67-068A-OIE
556 ASD WTR (2415)

FUNCTION YPM(X2,X1,Y2,Y1,X)

SLOPE=(Y2-Y1)/(X2-X1)

YPM=SLOPE*(X-X2)+Y2

RETURN

END

REC	1, LENGTH	84
REC	2, LENGTH	84
REC	3, LENGTH	84
REC	4, LENGTH	84
REC	5, LENGTH	84

1 3.614E-01 1.287E-01-1.190E-01-2.438E-01-3.246E-01-2.357E-01-7.970E-02
-1.156E-02 3.124E-02 4.777E-02 3.907E-02 8.662E-03-3.738E-02-8.889E-02-1.309E-01
-1.473E-01-1.767E-01-8.893E-02-3.970E-02-1.189E-03 1.218E-02-1.061E-02-7.603E-02
-1.695E-01-1.538E-01 8.364E-03 3.617E-01
2 4.156E-01 1.556E-01-5.738E-02-2.967E-01-2.567E-01-1.397E-01-4.642E-02
7.569E-03 3.593E-02 4.851E-02 3.573E-02 4.978E-03-3.749E-02-8.183E-02-1.149E-01
1.246E-01-1.069E-01-6.940E-02-2.327E-02 2.351E-03 9.547E-03-1.629E-02-7.955E-02
-1.626E-01-1.741E-01 1.833E-02 3.509E-01
3 4.544E-01 1.441E-01-1.046E-01-2.409E-01-1.379E-01-7.299E-02-1.278E-02
2.660E-02 5.040E-02 5.061E-02 3.204E-02 1.458E-03-3.677E-02-7.282E-02-9.630E-02
-9.951E-02-8.157E-02-5.125E-02-1.921E-02 2.359E-03 3.620E-03-2.260E-02-7.778E-02
-1.435E-01-1.474E-01 1.088E-02 2.998E-01
4 4.418E-01 1.448E-01-8.449E-02-1.922E-01-1.632E-01-6.266E-02 1.649E-02
4.691E-02 5.404E-02 5.201E-02 3.234E-02 3.907E-03-2.701E-02-5.309E-02-6.758E-02
-6.689E-02-5.253E-02-3.092E-02-5.631E-03 2.479E-03-1.465E-03-2.584E-02-6.968E-02
-1.169E-01-1.182E-01-4.880E-03 2.275E-01
5 4.963E-01 1.467E-01-7.777E-02-1.717E-01-1.152E-01-2.992E-02 3.150E-02
5.471E-02 6.059E-02 5.202E-02 3.297E-02 8.310E-03-1.637E-02-3.548E-02-4.474E-02
-4.273E-02-3.172E-02-1.643E-02-2.990E-03 2.749E-03-3.914E-03-2.553E-02-6.006E-02
-9.487E-02-9.732E-02-2.090E-02 1.493E-01
6 3.071E-01 7.755E-02-5.032E-02-8.466E-02-2.988E-02 2.939E-02 4.666E-02
5.917E-02 5.743E-02 4.810E-02 3.425E-02 1.978E-02 7.942E-03 7.711E-04-1.293E-03
6.772E-04 4.569E-03 7.493E-03 8.385E-03 4.474E-03-4.440E-03-1.768E-02-3.307E-02

REC 1, LENGTH 84
REC 2, LENGTH 84
REC 3, LENGTH 84
REC 4, LENGTH 84
REC 5, LENGTH 84
REC 6, LENGTH 84
REC 7, LENGTH 84
REC 8, LENGTH 84
REC 9, LENGTH 84
REC 10, LENGTH 84
REC 11, LENGTH 84
REC 12, LENGTH 84
REC 13, LENGTH 84
REC 14, LENGTH 84
REC 15, LENGTH 84
REC 16, LENGTH 84
REC 17, LENGTH 84
REC 18, LENGTH 84
REC 19, LENGTH 84
REC 20, LENGTH 84
REC 21, LENGTH 84
REC 22, LENGTH 84
REC 23, LENGTH 84

750.00	800.00	850.00	900.00	950.00	1000.00	1050.00
1100.00	1150.00	1200.00	1300.00	1400.00	1500.00	1600.00
1700.00	1800.00	1900.00	2000.00	2200.00	2400.00	2500.00
2600.00	2800.00	2900.00	3000.00	3200.00	3400.00	3600.00
3800.00	4000.00	4050.00	4100.00	4150.00	4200.00	

REC	1, LENGTH	84
REC	2, LENGTH	84
REC	3, LENGTH	84
REC	4, LENGTH	84
REC	5, LENGTH	84