



#421

OSO-8

SOFT X-RAY EXPERIMENT

75-057A-05A

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

REDUCED DATA TAPES

75-057A-05A ASXR-00044

This data set has been restored. There was originally 150 9-Track, 1600 BPI tapes, written in Binary. Six of these tapes were blank, D041532-35, and D041878-79. There are 36 restored tapes. The DR and DS tapes are 9-track, 6250 BPI. The tapes were created on an Univac 1110 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
DR001687	DS001687	D030364	1-17	06/25/75 - 07/02/75
		D030365	18-36	07/03/75 - 07/10/75
		D030366	37-52	07/11/75 - 07/18/75
		D030367	53-70	07/19/75 - 07/26/75
DR001688	DS001688	D030368	1-19	07/27/75 - 08/03/75
		D030369	20-40	08/04/75 - 08/11/75
		D030370	41-60	08/12/75 - 08/19/75
		D030371	61-80	08/20/75 - 08/27/75
DR001689	DS001689	D030372	1-21	08/28/75 - 09/04/75
		D030373	22-41	09/05/75 - 09/12/75
		D030374	42-59	09/13/75 - 09/20/75
		D030375	60-79	09/21/75 - 09/28/75
DR001690	DS001690	D030376	1-18	09/29/75 - 10/06/75
		D030377	19-36	10/07/75 - 10/14/75
		D030378	37-54	10/15/75 - 10/22/75
		D030379	55-73	10/23/75 - 10/30/75
DR001735	DS001735	D030380	1-17	10/31/75 - 11/07/75
		D030381	18-35	11/08/75 - 11/15/75
		D030382	36-56	11/16/75 - 11/23/75
		D030383	57-75	11/24/75 - 12/01/75
DR001691	DS001691	D030389	1-17	12/02/75 - 12/09/75
		D030390	18-38	12/10/75 - 12/17/75
		D030391	39-56	12/18/75 - 12/25/75
		D030392	57-77	12/26/75 - 01/02/76
DR001692	DS001692	D030393	1-18	01/03/76 - 01/10/76
		D030384	19-39	01/11/76 - 01/18/76
		D030385	40-59	01/19/76 - 01/26/76
		D030386	60-79	01/27/76 - 02/03/76

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DR#	DS#	D3	FILES	TIME SPAN
DR001693	DS001693	D030387	1-18	02/04/76 - 02/11/76
		D030388	19-39	02/12/76 - 02/19/76
		D030394	40-58	02/20/76 - 02/27/76
		D030395	59-76	02/28/76 - 03/06/76
DR001694	DS001694	D030396	1-18	03/07/76 - 03/14/76
		D030397	19-37	03/15/76 - 03/22/76
		D030398	38-55	03/23/76 - 03/30/76
		D030399	56-72	03/31/76 - 04/07/76
DR001695	DS001695	D030400	1-18	04/07/76 - 04/15/76
		D030401	19-36	04/16/76 - 04/23/76
		D030402	37-56	04/24/76 - 05/01/76
		D030403	57-72	05/02/76 - 05/09/76
DR001698	DS001698	D030404	1-17	05/09/76 - 05/17/76
		D030405	18-34	05/17/76 - 05/25/76
		D030406	35-52	05/25/76 - 06/02/76
		D030407	53-70	06/02/76 - 06/10/76
DR001699	DS001699	D030408	1-19	06/10/76 - 06/18/76
		D030409	20-40	06/18/76 - 06/26/76
		D030410	41-58	06/26/76 - 07/04/76
		D030411	59-77	07/04/76 - 07/12/76
DR001700	DS001700	D030412	1-18	07/12/76 - 07/20/76
		D030413	19-37	07/20/76 - 07/28/76
		D030591	38-55	07/28/76 - 08/05/76
		D030592	56-72	08/05/76 - 08/13/76
DR001701	DS001701	D030593	1-17	08/13/76 - 08/21/76
		D030594	18-34	08/21/76 - 08/29/76
		D030595	35-50	08/29/76 - 09/06/76
		D030596	51-67	09/06/76 - 09/14/76
DR001702	DS001702	D030597	1-17	09/14/76 - 09/22/76
		D030598	18-33	09/22/76 - 09/30/76
		D030599	34-51	09/30/76 - 10/08/76
		D030600	52-70	10/08/76 - 10/16/76
DR001708	DS001708	D030635	1-17	10/16/76 - 10/24/76
		D030636	18-33	10/24/76 - 11/01/76
		D030637	34-42	11/01/76 - 11/08/76
		D030638	43-56	11/10/76 - 11/16/76
DR001709	DS001709	D030639	1-17	11/16/76 - 11/25/76
		D030640	18-33	11/25/76 - 12/03/76
		D030641	34-50	12/03/76 - 12/11/76
		D030642	51-66	12/11/76 - 12/19/76

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DR#	DS#	D#	FILES	TIME SPAN
DR001710	DS001710	D030643	1-16	12/19/76 - 12/27/76
		D030644	17-33	12/28/76 - 01/04/77
		D030645	34-49	01/04/77 - 01/12/77
		D030646	50-66	01/12/77 - 01/20/77
DR001711	DS001711	D030647	1-16	01/20/77 - 01/28/77
		D030648	17-33	01/28/77 - 02/05/77
		D030649	34-49	02/05/77 - 02/13/77
		D030650	50-65	02/13/77 - 02/21/77
DR001712	DS001712	D030651	1-17	02/21/77 - 03/01/77
		D030652	18-33	03/01/77 - 03/09/77
		D030653	34-48	03/09/77 - 03/17/77
		D030654	49-53	03/17/77 - 03/20/77
DR001715	DS001715	D034038	1-17	03/25/77 - 04/02/77
		D034039	18-34	04/02/77 - 04/10/77
		D034040	35-55	04/10/77 - 04/18/77
		D034041	56-73	04/18/77 - 04/26/77
DR001716	DS001716	D034042	1-17	04/26/77 - 05/04/77
		D034043	18-33	05/04/77 - 05/12/77
		D034047	34-50	05/05/77 - 06/13/77
		D034044	51-67	05/12/77 - 05/20/77
DR001717	DS001717	D034045	1-17	05/21/77 - 05/28/77
		D034046	18-33	05/28/77 - 06/05/77
		D034048	34-49	06/13/77 - 06/21/77
		D034049	50-67	06/21/77 - 06/30/77
DR001718	DS001718	D034050	1-13	06/29/77 - 07/07/77
		D034051	14-29	07/07/77 - 07/15/77
		D034052	30-46	07/15/77 - 07/23/77
		D034053	47-62	07/23/77 - 07/31/77
DR001719	DS001719	D034054	1-17	07/31/77 - 08/08/77
		D034055	18-33	08/08/77 - 08/16/77
		D034056	34-49	08/16/77 - 08/24/77
		D034057	50-68	08/24/77 - 09/01/77
DR001720	DS001720	D040942	1-18	09/01/77 - 09/09/77
		D040933	19-34	09/10/77 - 09/17/77
		D040934	35-50	09/17/77 - 09/25/77
		D040935	51-67	09/25/77 - 10/03/77
DR001721	DS001721	D040936	1-16	10/03/77 - 10/11/77
		D040937	17-32	10/12/77 - 10/19/77
		D040938	33-49	10/19/77 - 10/27/77
		D040939	50-65	10/27/77 - 11/04/77

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DR#	DS#	D#	FILES	TIME SPAN
DR001722	DS001722	D040940	1-16	11/04/77 - 11/12/77
		D040941	17-32	11/12/77 - 11/20/77
		D041527	33-49	11/20/77 - 11/28/77
		D041528	50-65	11/28/77 - 12/06/77
DR001723	DS001723	D041529	1-16	12/06/77 - 12/14/77
		D041530	17-32	12/14/77 - 12/22/77
		D041531	33-48	12/22/77 - 12/30/77
		D041536	49-65	01/31/78 - 02/08/78
DR001724	DS001724	D041868	1-17	02/08/78 - 02/16/78
		D041869	18-33	02/16/78 - 02/24/78
		D041870	34-50	02/24/78 - 03/04/78
		D041871	51-66	03/04/78 - 03/12/78
DR001729	DS001729	D041872	1-14	03/12/78 - 03/20/78
		D041873	15-30	03/20/78 - 03/28/78
		D041874	31-46	03/28/78 - 04/05/78
		D041875	47-63	04/06/78 - 04/13/78
DR001730	DS001730	D041876	1-17	04/13/78 - 04/21/78
		D041877	18-41	04/21/78 - 04/29/78
		D041880	42-57	05/15/78 - 05/23/78
		D041881	58-76	05/24/78 - 05/31/78
DR001731	DS001731	D041882	1-17	05/31/78 - 06/08/78
		D041883	18-33	06/08/78 - 06/16/78
		D041884	34-48	06/16/78 - 06/24/78
		D041885	49-70	06/24/78 - 07/02/78
DR001732	DS001732	D041886	1-15	07/02/78 - 07/10/78
		D041887	16-25	07/10/78 - 07/18/78
		D041888	26-41	07/18/78 - 07/26/78
		D041889	42-57	07/26/78 - 08/03/78
DR001733	DS001733	D041890	1-16	08/03/78 - 08/14/78
		D041891	17-32	08/14/78 - 08/19/78
		D041892	33-48	08/19/78 - 08/27/78
		D041893	49-65	08/27/78 - 09/04/78
DR001734	DS001734	D041894	1-16	09/04/78 - 09/12/78
		D041895	17-33	09/13/78 - 09/20/78
		D041896	34-49	09/20/78 - 09/28/78
		D041897	50-53	09/28/78 - 09/30/78

REQ. AGENT

WKD
DAD

RAND NO.

RC8285
V0198

ACQ. AGENT

CDW
RP

OSO-8

SOFT X-RAY EXPERIMENT

75-057A-05A

This data set catalog consists of 124 OSO-8 data tapes. The tapes are 1600 BPI, Binary, 9 track and have multi-files. The tapes were created on a UNIVAC 1110 computer and consequently all references to 'words' mean 36-bit words. Also, any words in Real format are in UNIVAC 1110 series floating point format.

<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>TIME SPAN</u>
D-30364	C-19540	17	6/25/75 - 7/02/75
D-30365	C-19541	19	7/03/75 - 7/10/75
D-30366	C-19542	16	7/11/75 - 7/18/75
D-30367	C-19543	17	7/19/75 - 7/26/75
D-30368	C-19544	19	7/27/75 - 8/03/75
D-30369	C-19545	21	8/04/75 - 8/11/75
D-30370	C-19546	20	8/12/75 - 8/19/75
D-30371	C-19547	20	8/20/75 - 8/27/75
D-30372	C-19548	21	8/28/75 - 9/04/75
D-30373	C-19549	20	9/05/75 - 9/12/75
D-30374	C-19550	18	9/13/75 - 9/20/75
D-30375	C-19551	20	9/21/75 - 9/28/75
D-30376	C-19552	18	9/29/75 - 10/06/75
D-30377	C-19553	18	10/07/75 - 10/14/75
D-30378	C-19554	18	10/15/75 - 10/22/75
D-30379	C-19555	19	10/23/75 - 10/30/75
D-30380	C-19556	17	10/31/75 - 11/07/75
D-30381	C-19557	18	11/08/75 - 11/15/75
D-30382	C-19558	21	11/16/75 - 11/23/75
D-30383	C-19559	19	11/24/75 - 12/01/75
D-30384	C-19583	21	1/11/76 - 1/18/76
D-30385	C-19584	20	1/19/76 - 1/26/76
D-30386	C-19585	20	1/27/76 - 2/03/76
D-30387	C-19586	18	2/04/76 - 2/11/76
D-30388	C-19587	21	2/12/76 - 2/19/76
D-30389	C-19588	17	12/02/75 - 12/09/75
D-30390	C-19589	21	12/10/75 - 12/17/75
D-30391	C-19590	18	12/18/75 - 12/25/75

<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>TIME SPAN</u>
D-30392	C-19591	21	12/26/75 - 1/02/76
D-30393	C-19592	18	1/03/76 - 1/10/76
D-30394	C-19593	19	2/20/76 - 2/27/76
D-30395	C-19594	18	2/28/76 - 3/06/76
D-30396	C-19595	18	3/07/76 - 3/14/76
D-30397	C-19596	19	3/15/76 - 3/22/76
D-30398	C-19597	18	3/23/76 - 3/30/76
D-30399	C-19598	17	3/31/76 - 4/07/76
D-30400	C-19599	18	4/07/76 - 4/15/76
D-30401	C-19600	18	4/16/76 - 4/23/76
D-30402	C-19601	20	4/24/76 - 5/01/76
D-30403	C-19602	16	5/02/76 - 5/09/76
D-30404	C-19622	17	5/09/76 - 5/17/76
D-30405	C-19623	17	5/17/76 - 5/25/76
D-30406	C-19624	18	5/25/76 - 6/02/76
D-30407	C-19625	18	6/02/76 - 6/10/76
D-30408	C-19626	19	6/10/76 - 6/18/76
D-30409	C-19627	21	6/18/76 - 6/26/76
D-30410	C-19628	18	6/26/76 - 7/04/76
D-30411	C-19629	19	7/04/76 - 7/12/76
D-30412	C-19630	18	7/12/76 - 7/20/76
D-30413	C-19631	19	7/20/76 - 7/28/76
D-30591	C-19734	18	7/28/76 - 8/05/76
D-30592	C-19735	17	8/05/76 - 8/13/76
D-30593	C-19736	17	8/13/76 - 8/21/76
D-30594	C-19737	17	8/21/76 - 8/29/76
D-30595	C-19738	16	8/29/76 - 9/06/76
D-30596	C-19739	17	9/06/76 - 9/14/76

<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>TIME SPAN</u>
D-30597	C-19740	17	9/14/76 - 9/22/76
D-30598	C-19741	16	9/22/76 - 9/30/76
D-30599	C-19742	16	9/30/76 - 10/08/76
D-30600	C-19743	19	10/08/76 - 10/16/76
D-30635	C-19744	17	10/16/76 - 10/24/76
D-30636	C-19745	16	10/24/76 - 11/01/76
D-30637	C-19746	9	11/01/76 - 11/06/76
D-30638	C-19747	14	11/10/76 - 11/16/76
D-30639	C-19748	17	11/16/76 - 11/25/76
D-30640	C-19749	16	11/25/76 - 12/03/76
D-30641	C-19750	17	12/03/76 - 12/11/76
D-30642	C-19751	16	12/11/76 - 12/19/76
D-30643	C-19752	16	12/19/76 - 12/27/76
D-30644	C-19753	17	12/28/76 - 1/04/77
D-30645	C-19799	16	1/04/77 - 1/12/77
D-30646	C-19800	17	1/12/77 - 1/20/77
D-30647	C-19801	16	1/20/77 - 1/28/77
D-30648	C-19802	17	1/28/77 - 2/05/77
D-30649	C-19803	16	2/05/77 - 2/13/77
D-30650	C-19804	16	2/13/77 - 2/21/77
D-30651	C-19805	17	2/21/77 - 3/01/77
D-30652	C-19806	16	3/01/77 - 3/09/77
D-30653	C-19807	15	3/09/77 - 3/17/77
D-30654	C-19808	5	3/17/77 - 3/20/77
D-34038	C-20802	17	3/25/77 - 4/02/77
D-34039	C-20803	17	4/02/77 - 4/10/77
D-34040	C-20804	21	4/10/77 - 4/18/77
D-34041	C-20805	18	4/18/77 - 4/26/77

<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>TIME SPAN</u>
D-34042	C-20806	17	4/26/77 - 5/04/77
D-34043	C-20807	16	5/04/77 - 5/12/77
D-34044	C-20808	17	5/12/77 - 5/20/77
D-34045	C-20809	17	5/21/77 - 5/28/77
D-34046	C-20810	16	5/28/77 - 6/05/77
D-34047	C-20811	17	6/05/77 - 6/13/77
D-34048	C-20812	16	6/13/77 - 6/21/77
D-34049	C-20813	18	6/21/77 - 6/30/77
D-34050	C-20814	13	6/29/77 - 7/07/77
D-34051	C-20815	16	7/07/77 - 7/15/77
D-34052	C-20816	17	7/15/77 - 7/23/77
D-34053	C-20817	16	7/23/77 - 7/31/77
D-34054	C-20818	17	7/31/77 - 8/08/77
D-34055	C-20819	16	8/08/77 - 8/16/77
D-34056	C-20820	16	8/16/77 - 8/24/77
D-34057	C-20821	19	8/24/77 - 9/01/77
D-40942	C-23256	18	9/01/77 - 9/09/77
D-40933	C-23247	16	9/10/77 - 9/17/77
D-40934	C-23248	16	9/17/77 - 9/25/77
D-40935	C-23249	17	9/25/77 - 10/03/77
D-40936	C-23250	16	10/03/77 - 10/11/77
D-40937	C-23251	16	10/12/77 - 10/19/77
D-40938	C-23252	17	10/19/77 - 10/27/77
D-40939	C-23253	16	10/27/77 - 11/04/77
D-40940	C-23254	16	11/04/77 - 11/12/77
D-40941	C-23255	16	11/12/77 - 11/20/77
D-45127	C-23257	17	11/20/77 - 11/28/77
D-41528	C-23258	16	11/28/77 - 12/06/77

<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>Time Span</u>
D-41529	C-23259	16	12/06/77 - 12/14/77
D-41530	C-23260	16	12/14/77 - 12/22/77
D-41531	C-23261	16	12/22/77 - 12/30/77
D-41536	C-23262	17	1/31/78 - 2/8/78
D-41868	C-23276	17	2/08/78 - 2/16/78
D-41869	C-23277	16	2/16/78 - 2/24/78
D-41870	C-23278	17	2/24/78 - 3/04/78
D-41871	C-23279	16	3/04/78 - 3/12/78
D-41872	C-23280	14	3/12/78 - 3/20/78
D-41873	C-23281	16	3/20/78 - 3/28/78
D-41874	C-23282	16	3/28/78 - 4/05/78
D-41875	C-23283	17	4/06/78 - 4/13/78
D-41876	C-23284	17	4/13/78 - 4/21/78
D-41877	C-23285	24	4/21/78 - 4/29/78
D-41880	C-23286	16	5/15/78 - 5/23/78
D-41881	C-23287	19	5/24/78 - 5/31/78
D-41882	C-23288	17	5/31/78 - 6/08/78
D-41883	C-23289	16	6/08/78 - 6/16/78
D-41884	C-23290	15	6/16/78 - 6/24/78
D-41885	C-23291	22	6/24/78 - 7/02/78
D-41886	C-23292	15	7/02/78 - 7/10/78
D-41887	C-23293	10	7/10/78 - 7/18/78
D-41888	C-23294	16	7/18/78 - 7/26/78
D-41889	C-23295	16	7/26/78 - 8/03/78
D-41890	C-23296	16	8/03/78 - 8/14/78
D-41891	C-23297	16	8/14/78 - 8/19/78
D-41892	C-23298	16	8/19/78 - 8/27/78
D-41893	C-23299	17	8/27/78 - 9/04/78

<u>D#</u>	<u>C#</u>	<u>FILES</u>	<u>Time Span</u>
D-41894	C-23300	16	9/04/78 - 9/12/78
D-41895	C-23301	17	9/13/78 - 9/20/78
D-41896	C-23302	16	9/20/78 - 9/28/78
D-41897	C-23303	4	9/28/78 - 9/30/78

April 1977

LIST OF DATA COVERED ON TAPES

<u>TAPE NAME</u>	<u>FROM</u>	<u>TO</u>
	<u>DAY</u> <u>SECONDS</u>	<u>DAY</u> <u>SECONDS</u>
OS0Z20	336 141	343 82466
OS0Z21	343 100	351 86398
OS0Z22	352 18	359 86398
OS0Z23	360 18	367 86397
OS0Z24	368 17	375 86397
OS0Z25	376 17	383 86397
OS0Z26	384 17	391 84431
OS0Z27	392 1307	399 86397
OS0Z28	400 17	407 86397
OS0Z29	408 17	415 86397
OS0Z30	416 17	423 86356
OS0Z31	424 775	431 86397
OS0Z32	432 17	439 85905
OS0Z33	440 140	447 86397
OS0Z34	448 17	455 86356
OS0Z35	456 222	463 82690
OS0Z36	463 82792	471 86397
OS0Z37	472 18	479 86397
OS0Z38	480 18	487 86397
OS0Z39	488 18	495 80827
OS0Z40	495 81646	503 84574
OS0Z41	503 84595	511 81277
OS0Z42	511 81482	519 83530
OS0Z43	519 84123	527 79475

<u>TAPE NAME</u>	<u>DAY</u>	<u>FROM</u>	<u>SECONDS</u>	<u>TO</u>	<u>DAY</u>	<u>SECONDS</u>
OS0Z44	527		79598		535	80970
OS0Z45	535		81235		543	85271
OS0Z46	543		86152		551	83018
OS0Z47	551		83038		559	85722
OS0Z48	559		85865		567	83428
OS0Z49	567		83448		575	85087

Rationale and Motivation; Phenomena Measured

The University of Wisconsin Soft X-ray Experiment on OSO-8 was designed to measure, both spatially and spectrally, cosmic X-ray radiation, principally the low-energy background radiation. The spectral range of the instrument spans X-ray energies from below the carbon K-edge at 284 eV ($44 \text{ \AA}$) to approximately 35 keV ($0.25 \text{ \AA}$) and is divided into 16 pulse-height channels. Three types of proportional counters are employed in order to cover this range. Spatial selection is provided by collimators of honeycomb construction with an optical beam width of $3^\circ 1$ (FWHM). Instrumental detail are provided elsewhere.

We will assume that the reader is familiar with the general course and history of X-ray astronomy and so that will not be treated in detail other than to explain the motivation for this specific instrument. In the late 1960's and early 1970's it became clear that in addition to the numerous discrete cosmic X-ray sources there was also a general background X-radiation. At high energies, in excess of a few keV, this was evidently extragalactic and followed a well-defined power law in energy. At lower energies, below ~ 1 keV, however, the intensity of the background radiation was measured to be considerably in excess of the extrapolation of the higher-energy power-law relation. Also the low-energy flux showed considerable spatial structure and was seen in directions where the amount of galactic absorbing material should have been opaque to extragalactic radiation. These observations had been made entirely from sounding rockets and due to the severe exposure limitations only the gross, large-scale structure could be

mapped. The OSO-8 experiment, then, was designed to perform long-exposure, relatively high spatial resolution studies of individual features in the X-ray background radiation. The primary goal of the experiment was the nature of the low-energy radiation, but the instrumental energy range was extended to higher energies in order to gain insight into the relation between the low and high-energy X-ray background.

In order to obtain adequate exposure in any single direction it was necessary to place the detectors' fields of view along the OSO-8 spin and anti-spin axes. The fields of view generally drift slowly over the sky at $\sim 1^\circ \text{ day}^{-1}$ to $\sim 3^\circ \text{ day}^{-1}$. It was impractical to survey the entire sky in this manner, but existing sky surveys were used as a guide to select the regions to be studied in detail.

In addition to the cosmic background X-ray data, a number of discrete X-ray sources were naturally included in the observing plan. Also a substantial amount of time was spent viewing the earth.

SCIENCE DATA TAPE CHARACTERISTICS:

9-track, 1600 BPI, odd parity, unlabeled

An EOF mark is written if:

- a) >12 hrs elapsed since beginning of file.
- b) total movement of positive spin axis $\geq 10^\circ$ change since beginning of file.
- c) merging data in later resulted in some shorter files.

2 EOF's written at EOT or at about 8 days of data on tape. Logical records are packed 10 to a physical record giving $300 \times 10 = 3000$ word blocks. Blocks are filled with zeros if necessary at end of file (ID = 0). Tapes were written by a Univac 1110 and consequently all references to 'words' mean 36-bit words. Also, any words in Real format are in Univac 1100 series floating point format.

The word packing mode is 4.5 frames (8-bit bytes) per word.

Data records on any tape are always in ascending time order.

SCIENCE DATA RECORD DEFINITION

The science data tapes contain science data records, major frame by major frame, of those records we kept. The processor that created these records from the raw data we call PASS1. S/C means Space Craft. EXP.DESC. refers to OSO-8 Soft X-Ray Experiment (Wisconsin) Final Report.

<u>WORD</u>	<u>TYPE</u>	<u>ORIGIN</u>	<u>DESCRIPTION</u>
1	Integer	PASS1	ID word (10_{10} in 12 most significant bits)
2	Integer	--	flag word (see separate description)
3	Real	GSFC	day of data (beginning with day 174 (June 23, 1975) and continuing in ascending order until satellite shut-down)
4	Real	GSFC	seconds of data. (Beginning of major frame)
5-204	Real	S/C	* minor frame 0-99 of telemetry words 49, 50 (data system output) organized 49,50,49, 50 ... (see TABLE 5-5, EXP.DESC.)
205-214	Integer	S/C	digital subcom words 0-9 (98-27,...,31, 91,...,95) (see TABLE 5-1, EXP.DESC.)
215-220	Integer	S/C	high voltage power supply (HVPS) 1-6 analog monitors (98-58,...,63) (see TABLE 5-1, EXP.DESC.)
221-222	Real	PASS1	RA,DEC of top sky (degrees)
223-238	Real	PASS1	RA,DEC of centers of sectors 0-7 (degrees)
239-240	Real	GSFC	geodetic latitude, east longitude (degrees)
241-242	Real	GSFC	McIlwain L,B parameters
243-244	Real	GSFC	RA,DEC of $\vec{B}$ (magnetic field-degrees)
245-246	Real	PASS1	solar zenith, azimuth (degrees)
247-264	Real	PASS1	look zenith, azimuth (degrees) for sectors top, 0-7

265	Real	GSFC	height of satellite (Km)
266-277	--	--	meant to be total rates--never implemented
278	Real	PASS1	horizon zenith angle (degrees--allowing for 160 Km atmosphere)
279-284	Real	PASS1	latest calculable calibrate ratios for counters 1-6
285-286	Real	PASS1	RA,DEC of roll axis (degrees)
287-289	Integer	S/C	relay monitors (98-64,65,66) (see TABLE 5-1, EXP.DESC.)
290	Real	GSFC	spin rate (RPM)
291	Integer	GSFC	attitude flags (see separate description)
292-299	--	--	spares, not used
300	Integer	PASS1	checksum (XOR of 1-299)

*Data system output is recorded on science data record with other data that occurred at the same time, i.e., data system output is from next telemetry frame.

TYPES OF FILL DATA IN SCIENCE DATA RECORD:

Normally, all data words (5-220, 287-289) should be between 0 and 255.

If a minor frame synch word (from satellite telemetry) has more than zero bit errors (see also flag word description), associated data is set negative (words 5-220, 287-289 only).

If a minor frame is missing (rare), data is set to 5555. (for reals) or 5555 (for integers) (words 5-220, 287-289 only).

If a minor frame has fill data (as reported in raw data) 1000. (for reals) or 1000 (for integers) is added to data (words 5-220, 287-289 only).

If data is impossible to write or calculate for some other reason, data is set to 9999, (for reals) or 9999 (for integers) (all words).

SCIENCE DATA RECORD - FLAG WORD DEFINITION

<u>BIT</u>	<u>MEANING</u>
0 (MB)	attitude computation type (from label record) 0 = fine, 1 = coarse
1-6	Not used
7-9	**number of bit errors in minor frame synch words for count data in this major frame. If ≥ 7 , set to 7.
10	*1 = fill data present in this frame, 0 = none
11	1 = gas flow HVPS on/off transition calc impossible to do
12	D/N override (0 = off, 1 = on)
13	*overflow correction mode (1 = yes) (only during calibrates)
14	calibrate valid frame (1 = yes)
15	partial calibrate frame (1 = yes)
16	calibrate turn-off frame (= yes)
17	gas flow HVPS on/off transient (1 = yes)
18	all HVPS on/off transient (1 = yes)
19	dwel mode transient (possibly dwel mode data) (1 = yes)
20	radiation monitor override (0 = off, 1 = on)
21	D/N status (0 = night, 1 = day) - from actual space craft sun sensor
22	missing adjacent frame (1 = yes)
23	previous frame missing (1 = yes)
24	1 or more ratemeters high (1 - yes)
25	B/V valve open (1 = yes)
26	*1 or more solenoid 1 counts (1 = yes)
27	*1 or more solenoid 2 counts (1 = yes)
28	*data system error (1 - yes)

- 29 VHF transmitter on (1 = yes)
- 30 S-Band transmitter on (1 = yes)
- 31 probable error of attitude solution $> 0.1^\circ$ (1 = yes)
- 32 *suspect extra MIP
- 33 *self test frame (1 = yes)
- 34 illegal non D/S data (1 = yes)
- 35 all HVPS on/off transition calculations impossible to do

** sum of relevant minor frame data.

* these flags are written with subcom to which they correspond--not with next frame as in telemetry format.

We have been using these flags in the following manner (for data selection):

- bits 0 thru 6 - ignore (don't care)
- bits 7 thru 11 - require zeros
- bit 12 - usually required zero, but also left as don't care during specific intervals
- bit 13 - usually left as don't care, but can be required to be zero
- bits 14 thru 19 - require zeros
- bit 20 - usually required to be zero, but can be left as don't care over specific intervals (with caution)
- bit 21 - required to be zero for night data, one for day data
- bits 22 thru 25 - require zeros
- bits 26 thru 27 - ignore (don't cares)
- bit 28 - require zeros
- bits 29 thru 32 - ignore (don't cares)
- bits 33 thru 35 - require zeros

ATTITUDE FLAGS WORD DESCRIPTION

The attitude flag field contains 20 bits. They are bits 16 thru 35 in the 36-bit word (BIT 0 = MSB). These flags are determined by GSFC when creating the raw data tapes. When the respective bit is set, the condition is present. All unused bits = 0.

<u>BIT</u>	<u>SIGNIFICANCE</u>
16	1 = night, 0 = day at beginning of major frame (from orbit predictions)
17	Spin rate ω was present from MIP
18	Aspect angle B_s was present from MIP
19	Spin rate ω
20	Aspect angle B_s
21	Pitch angle η
22	Roll angle ϕ
23	Spin rate ω was calculated
24	Aspect angle B_s was calculated
25	Pitch angle η was calculated (in day time from sun sensor, at night from a star solution)
26	Roll angle ϕ was calculated from a star solution
27	Spin rate ω was interpolated
28	Aspect angle B_s was interpolated
29	Pitch angle η was interpolated
30	Roll angle ϕ was interpolated
31	Spin rate ω was extrapolated
32	Aspect angle B_s was extrapolated
33	Pitch angle η was extrapolated

Raw data values
were present

- 34 Roll angle $\emptyset$ was extrapolated
- 35 A gas firing has occurred

The following is GSFC's suggested interpretation:

The general guidelines in interpreting the bit setting are as follows: When the lower 9 bits are not set except for bit 6 in the daytime, there were good solutions for the attitude state vector. The interpolation of missing values yields, generally, good results. Extrapolation over long periods of time, generally, yield less confident results and should be carefully interpreted by the user. Gas firings should be carefully interpreted because of larger uncertainty in the state vector, particularly during the gas firings.

We have been using these flags in the following manner:

Require bit 35 to be zero and ignore the rest of the flags. We have found the attitude information to be sufficiently accurate independent of these flags.

MISCELLANEOUS

Occasionally the first record on a tape has an ID = 10 but a time of zero. This is an anomaly of PASS1 and these records should be ignored as they contain no data.

Filler records (ID = 0) should always be ignored.

Sep 1977

LIST OF DATA COVERED ON TAPES

<u>Tape Name</u>	<u>From</u>		<u>To</u>	
	<u>Day</u>	<u>Seconds</u>	<u>Day</u>	<u>Seconds</u>
A15 OS0Z00	<u>176</u>	33585	<u>183</u>	86397
OS0Z01	184	18	191	86234
OS0Z02	192	100	199	80868
OS0Z03	200	652	207	86398
OS0Z04	208	18	215	85927
OS0Z05	216	38	223	86398
OS0Z06	224	18	231	86398
OS0Z07	232	18	239	86193
OS0Z08	240	469	247	86398
OS0Z09	248	18	255	86398
OS0Z10	256	18	263	86398
OS0Z11	264	18	271	86398
OS0Z12	272	10	279	84862
OS0Z13	280	5711	287	85108
OS0Z14	288	1267	295	85845
OS0Z15	296	387	303	85866
OS0Z16	304	837	311	86398
OS0Z17	312	18	319	86398
OS0Z18	320	18	327	86398
OS0Z19	328	18	335	86213

Sep 1977

LIST OF DATA COVERED ON TAPES

<u>TAPE NAME</u>	<u>FROM</u>		<u>TO</u>	
	<u>DAY</u>	<u>SECONDS</u>	<u>DAY</u>	<u>SECONDS</u>
OS0Z60	655	79189	663	84698
OS0Z61	663	85005	671	78800
OS0Z62	671	78922	679	82302
OS0Z63	679	82322	686	78446
OS0Z64	687	81032	695	83428
OS0Z65	696	40609	703	80500
OS0Z66	703	80519	711	83100
OS0Z67	712	40323	719	79578
OS0Z68	719	86029	727	76526
OS0Z69	728	18	735	84820

Sep 1977

LIST OF DATA COVERED ON TAPES

<u>TAPE NAME</u>	<u>FROM</u>		<u>TO</u>	
	<u>DAY</u>	<u>SECONDS</u>	<u>DAY</u>	<u>SECONDS</u>
OS0Z70	735	85249	743	81011
OS0Z71	743	81707	751	83100
OS0Z72	751	83345	759	80253
OS0Z73	759	80273	767	83960
OS0Z74	767	84062	775	84513
OS0Z75	775	84595	783	80663
OS0Z76	783	81154	791	85086
OS0Z77	791	85967	799	82670
OS0Z78	799	82587	807	85373
OS0Z79	807	85557	815	81584

Sep 1977

LIST OF DATA COVERED ON TAPES

<u>TAPE NAME</u>	<u>DAY</u>	<u>FROM</u>	<u>SECONDS</u>	<u>TO</u>	<u>DAY</u>	<u>SECONDS</u>
OS0Z50	575		85107		583	82015
OS0Z51	583		82035		591	83797
OS0Z52	591		84595		599	81011
OS0Z53	599		81175		607	82424
OS0Z54	607		82834		615	80499
OS0Z55	615		80888		623	84739
OS0Z56	623		84902		631	83879
OS0Z57	631		84063		639	82773
OS0Z58	639		82793		647	84042
OS0Z59	647		84165		655	79168

LIST OF DATA COVERED ON TAPES

<u>TAPE NAME</u>	<u>FROM</u>		<u>TO</u>		<u>WISCONSIN TAPE #</u>	<u>SDR-2 DATE</u>
	<u>DAY</u>	<u>SECONDS</u>	<u>DAY</u>	<u>SECONDS</u>		
ZC0	1135	81830	1143	83202	3611	PASS 1
ZC1	1143	83222	1151	81133	6874	PASS 1
ZC2	1151	80990	1159	82976	5032	PASS 1
ZC3	1159	82976	1167	79106	3610	PASS 1
ZC4	1167	79556	1175	57438	3492	PASS 1
ZC5	1175	85250	1183	84328	4933	PASS 1
ZC6	1183	84348	1191	82383	6883	PASS 1
ZC7	1192	3949	1199	82546	6871	PASS 1
ZC8	1199	82567	1207	84861	4313	PASS 1
ZC9	1207	85148	1215	80560	4395	PASS 1

U-41648-
41887

LIST OF DATA COVERED ON TAPES

<u>TAPE NAME</u>	<u>FROM</u>		<u>TO</u>		<u>WISCONSIN TAPE #</u>	<u>SDR-2 DATE</u>
	<u>DAY</u>	<u>SECONDS</u>	<u>DAY</u>	<u>SECONDS</u>		
ZD0	1216	3663	1223	58421	6876	PASS 1
ZD1	1223	71999	1231	82668	4946	PASS 1
ZD2	1231	83100	1239	74641	650	PASS 1
ZD3	1240	5096	1247	76198	470	PASS 1
ZD4	1247	81216	1255	78164	510	PASS 1
ZD5	1255	78164	1263	79372	6879	PASS 1
ZD6	1263	79373	1271	85127	621	PASS 1
ZD7	1271	85005	1279	76587	4364	PASS 1
ZD8	1279	85967	1287	75665	5031	PASS 1
ZD9	1287	80110	1295	81646	544	PASS 1

LIST OF DATA COVERED ON TAPES

<u>TAPE NAME</u>	<u>FROM</u>		<u>TO</u>		<u>WISCONSIN TAPE #</u>	<u>SDR-2 DATE</u>
	<u>DAY</u>	<u>SECONDS</u>	<u>DAY</u>	<u>SECONDS</u>		
ZE0	1295	81667	1303	69173	6077	PASS 1
ZE1	1303	77570	1311	78021	5030	PASS 1
ZE2	1311	78512	1319	83735	4407	PASS 1
ZE3	1319	83755	1327	85537	4393	PASS 1
ZE4	1327	85864	1335	80827	4378	PASS 1
ZE5	1335	81502	1343	80315	4290	PASS 1
ZE6	1343	80150	1351	77734	6090	PASS 1
ZE7	1352	9233	1359	81277	4324	PASS 1
ZE8	1359	81379	1367	74560	4309	PASS 1
ZE9	1367	74396	1369	73566	6091	PASS 1

LIST OF DATA COVERED ON TAPES

<u>TAPE NAME</u>	<u>FROM</u>		<u>TO</u>		<u>WISCONSIN TAPE #</u>	<u>SDR-2 DATE</u>
	<u>DAY</u>	<u>SECONDS</u>	<u>DAY</u>	<u>SECONDS</u>		
ZA0	975	77918	983	82362	313	Partial
ZA1	984	1845	991	85353	4063	Partial
ZA2	991	85373	999	80458	5007	9/26/78
ZA3	999	80580	1007	84697	479	12/18/78
ZA4	1007	84717	1016	83986	602	10/21/78
ZA5	1016	4277	1023	77980	613	PASS 1
ZA6	1023	78062	1031	85660	4312	PASS 1
ZA7	1031	86070	1039	81625	3603	PASS 1
ZA8	1039	82506	1047	83571	174	PASS 1
ZA9	1047	83673	1055	81605	3335	PASS 1

LIST OF DATA COVERED ON TAPES

<u>TAPE NAME</u>	<u>FROM</u>		<u>TO</u>		<u>WISCONSIN TAPE #</u>	<u>SDR-2 DATE</u>
	<u>DAY</u>	<u>SECONDS</u>	<u>DAY</u>	<u>SECONDS</u>		
ZB0	1055	81707	1063	83571	321	PASS 1
ZB1	1063	84124	1071	81830	327	PASS 1
ZB2	1071	81830	1079	80581	309	PASS 1
ZB3	1079	80806	1087	78717	347	PASS 1
ZB4	1087	79435	1095	80581	3524	PASS 1
ZB5	1095	80601	1103	84512	3608	PASS 1
ZB6	1103	84574	1111	80703	6873	PASS 1
ZB7	1111	80847	1119	83263	6875	PASS 1
ZB8	1119	83283	1127	78962	6878	PASS 1
ZB9	1127	78963	1135	81399	3523	PASS 1

D-30644

\$JOB 12:39:41

\$ASS IN MS1

\$NOP ***** DUMP OF KDOUT-20 *****

\$SEX DPHEX BS

INPUT TAPE ON MS1

DATA INPUT 1 1 STOP

FILE	1	RECORD	1	LENGTH	3500 BYTES
(0)	00A00000	00000640	60455B00	00042C93	22D1447F 80000447 30000042 D4000004 2D400000 44730000
(40)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(80)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(120)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(160)	000040C0	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(200)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(240)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(280)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(320)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(360)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(400)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(440)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(480)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(520)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(560)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(600)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(640)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(680)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(720)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(760)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(800)	00444200	00044420	00004442	00000444	20000044 42000004 44200000 44420000 04442000
(840)	00044420	00004442	00000444	20000044	42000004 44200000 43D00000 043D0000 000446F0
(880)	00004460	00000447	48000043	CC000004	3CC00000 43C70000 00000000 00000000 00000000
(920)	00031000	00001F00	00000050	000000C5	00000000 33000000 01E00000 00220000 00000000
(960)	0000A100	00000000	00000000	00000000	00000000 00000000 00000000 00004457 D7B4CB02 FE216944
(1000)	D8A14B24	2E26A936	44D99A03	C42DFFB1	184046A5 80042D41 5D1844D9 F75AE42C 5F948B44 D9322EE4
(1040)	27B93C52	44D84651	442C0184	7544D7B6	14A42CB9 D79044D7 D7BFA42D 9DAD92BD 15463CE4 3FF7DC44
(1080)	40EA71C7	A3FEDDF5	3B4470D6	515417C0	565C435F 5B75243E 233AD843 597642A4 4C2EEA84 4443BCF1
(1120)	543D10B0	A0444563	5D043D32	2B484445	F9A1343D 85A3F844 451643E4 3DD1F450 44435695 243DE525
(1160)	204441CC	B8E43DBC	6A784441	4ADF243D	73362844 42115B74 3D2E1638 4544765C E474E1E0 00474E1E
(1200)	000474E1	E000474E	1E000474	E1E00047	4E1E0004 74E1E000 0474E1E0 0474E1E0 00474E1E 000474E1
(1240)	E000474E	1E00043E	042FFC00	00000000	00000000 00000000 00000000 00000000 00000000 000044C4
(1280)	BEA88BD2	06CD6200	00000720	00000072	00000007 241DA3D0 DE46F800 000474E1 E000474E 1E000474
(1320)	F1E00047	4E1E0004	74E1E000	474E1E00	00474E1E 000C5A51 898000A0 00000000 00426045 00000000
(1360)	5B000004	34D8ED91	447F8000	04469800	0043D500 00043D50 00004469 80000000 00000000 00000000
(1400)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1440)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1480)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1520)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1560)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1600)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1640)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1680)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1720)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1760)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1800)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1840)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1880)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1920)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(1960)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(2000)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(2040)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(2080)	00000000	00000000	00000000	00000000	00000000 00000000 00000000 00000000 00000000 00000000
(2120)	44200000	44420000	04442000	00444200	00004442 00004442 20000044 42000004 44200000 44200000
(2160)	44420000	04442000	00444200	00004442	00004442 20000044 42000004 44200000 44200000 44200000
(2200)	043E9000	0043E900	00043E90	000043F7	0000043F 70000043 F7000004 47080000 44750000 0446E000
(2240)	0043CC00	00043CC0	000043CC	0000040C	00000000 00000000 00000000 00000000 10000000 1F000000

512
192
24
728
365
363

Day 363 - H (1977)

12/28/76 - 1/4/77

01000101010310310800

COMPRESSED NIGHTTIME DATA

75-057A-05B

ASXR-00013

This data set has been restored. There were originally 23 Binary 9-Track, 1600 BPI tapes. There are 6 restored tapes. The DR tapes are 3480 cartridges and the DS tapes are 9-track, 6250 BPI. The tapes were created on a 1110 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
DR01739	DS01739	D47262	1-4	08/22/75 - 09/26/75
		D47263	5-8	09/27/75 - 11/03/75
		D47264	9-12	11/04/75 - 12/06/75
		D47265	13-16	12/07/75 - 01/07/76
DR01740	DS01740	D47266	1-4	01/08/76 - 02/16/76
		D47267	5-7	02/17/76 - 03/09/76
		D47268	8-11	03/10/76 - 04/11/76
		D47269	12-15	04/12/76 - 05/12/76
DR01741	DS01741	D47270	1-4	05/13/76 - 06/17/76
		D47271	5-9	06/18/76 - 08/06/76
		D47272	10-13	08/07/76 - 09/08/76
		D47273	14-17	09/09/76 - 10/11/76
DR01742	DS01742	D47274	1-9	10/12/76 - 11/10/76
		D47275	10-12	11/11/76 - 12/10/76
		D47276	13-15	12/11/76 - 01/02/77
		D47277	16-18	01/03/77 - 01/26/77
DR01743	DS01743	D47278	1-4	01/27/77 - 02/26/77
		D47279	5	04/09/77 - 05/20/77
		D47280	6-10	05/22/77 - 07/10/77
		D47281	11-15	07/11/77 - 08/21/77
DR01744	DS01744	D47282	1-4	08/31/77 - 09/28/77
		D47283	5-7	09/29/77 - 12/31/77
		D47261	8-12	07/03/75 - 08/21/75

THIS DATA SET CATALOG CONSISTS OF 23 TAPES. THE TAPES ARE
1-TRACK, 1600 BPI AND WERE CREATED ON A UNIVAC 1110 COMPUTER. THE D
NUMBERS ALONG WITH THE TIME SPANS ARE AS FOLLOWS:

D#	FILES	TIME SPAN
D-47261	4	07/03/75 - 08/21/75
D-47262	4	08/22/75 - 09/26/75
D-47263	4	09/27/75 - 11/03/75
D-47264	4	11/04/75 - 12/06/75
D-47265	4	12/07/75 - 01/07/76
D-47266	4	01/08/76 - 05/12/76
D-47267	3	02/17/76 - 03/09/76
D-47268	4	03/10/76 - 04/11/76
D-47269	4	04/12/76 - 05/12/76
D-47270	4	05/13/76 - 06/17/76
D-47271	5	06/18/76 - 08/06/76
D-47272	4	08/07/76 - 09/08/76
D-47273	4	09/09/76 - 10/11/76
D-47274	9	10/12/76 - 11/10/76
D-47275	3	11/11/76 - 12/10/76
D-47276	3	12/11/76 - 01/02/77
D-47277	3	01/03/77 - 01/26/77
D-47278	4	01/27/77 - 02/26/77
D-47279	1	04/09/77 - 05/20/77
D-47280	5	05/22/77 - 07/10/77
D-47281	5	07/11/77 - 08/21/77
D-47282	4	08/31/77 - 09/28/77
D-47283	3	09/29/77 - 12/31/77