

## TABLE OF CONTENTS

1. INTRODUCTION
2. CHANGE LOG
3. LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM
  - a. URL to S/C “Remarks” field
  - b. URL to S/C “Materials” field
  - c. URL to Experiment “Remarks” field
  - d. URL to Experiment “Materials” field
  - e. URL to Data Set “Remarks” field
  - f. URL to Data Set “Materials” field
  - g. Items e and f for additional data sets from this experiment, if needed
  - h. Items c thru g for additional experiments from this spacecraft, if needed
  - i. Items a thru h for additional spacecraft, if needed
4. CATALOG MATERIALS.

## 1. Introduction:

The documentation for this data set was originally on paper kept in NSSDC's Data Set Catalogs (DSCs). The offline tape datasets have now been migrated from the original magnetic tape to magnetic disk (starting in mid-2004). Accordingly, statements in the format descriptions that address such tape relevant factors as blocking and but density are no longer applicable. The paper documentation in the Data Set Catalogs have been scanned and made into digital images of the pages, the collected into a single PDF file for each Data Set Catalog.

The inventory information in these DSCs is current as of July 1, 2004. But this inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system, and the user should go to that interface (JIN) if further information existing in the DSCs is now not needed for locating data files, but we did not go to the trouble of removing that inventory information.

## 2. CHANGE LOG

Version	Date	Person	Page	Description of Change
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01				
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## **Data Set Catalog Change Log**

1. Mar. 10, 2004 - G. Schneider P.3 Added web link from dataset ID to dataset brief description.
2. Mar. 10, 2004 - G. Schneider P.6 Added NSSDC document ID "B05091-000A" to cover page.

“Materials” for EXNAME data set DSNAME3:

“Remarks” for SCNAME2 experiment EXNAME3:

“Materials” for SCNAME2 experiment EXNAME3:

“Remarks” for EXNAME3 data set DSNAME1:

“Materials” for EXNAME3 data set DSNAME1:

“Remarks” for EXNAME3 data set DSNAME2:

“Materials” for EXNAME3 data set DSNAME2:

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ALTERNATE OPTION:

For SCNAME2:

“Remarks” for EXNAME1 data set DSNAME2:

<http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00014--remark-->

“Materials” for EXNAME1 data set DSNAME2:

<http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00014--mat-->

can be shown as

“Remarks” for EXNAME1 data set DSNAME2:

<http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=78-079A-03C--remark-->

“Materials” for EXNAME1 data set DSNAME2:

<http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=78-079A-03C--mat-->

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4. CATALOG MATERIALS:

DATA SET CATALOG # 44

Relay I, Proton elect counters 'B', 'C', 'D'

62-068A-03B

1 tape

62-068A-03C

3 tapes

62-068A-03D

5 tapes

RELAY 1

IOS AVERAGE COUNT RATES TIME ORDERED TAPE

62-068A-03C

This data set has been restored. There were originally 3 binary 7-track, 800 BPI tapes. The DR tapes are 3480 cartridges and the DS tapes are 9-track, 6250 BPI. The tapes were created on an IBM 7094 computer. The DR and DS numbers along with the corresponding D numbers and the time spans are as follows:

DR #	DS#	DD#	FILES	TIME SPAN
DR003125	DS03125	DD00998	1	05/26/62 - 05/11/63
		DD00998	2	05/12/63 - 11/21/63
		DD01000	3	11/21/63 - 1-19/64

RELAY 1

PROTON - ELECTRON L-SORTED TAPE

62-068A-03B

This data set has been restored. There was originally  
1 Binary 9-Track, 1600 BPI tape. There is one restored tape.  
The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI.  
The tape was created on an IBM 7094 computer. The DR and DS number  
along with the corresponding D number and the time span is as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR03061	DS03061	D00482	1	12/14/62 - 10/20/64

RELAY 1

10 S AVG COUNT RATE, TAPE

62-068A-03D

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY FIVE 7-TRACK, 556 BPI TAPES 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. ACCORDING TO AIM THERE IS A TIME SPAN FOR THESE TAPES, BUT THE TIME COULD NOT BE VERIFIED, THEREFORE THE TIME SPAN WILL ONLY BE MENTIONED IN THIS DESCRIPTIVE PARAGRAPH OF THE DATA SET: 12/14/62 - 10/20/64. THE ORIGINAL TAPES WERE CREATED ON A CDC COMPUTER AND WERE RESTORED ON THE MODCOMP. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBERS ARE AS FOLLOWS:

DR#	DS#	D#	FILES
DR003128	DS003128	D000483	1
		D000484	2
		D000485	3
		D000499	4
		D000500	5

RELAY 1

PROTON - ELECTRON L-SORTED TAPE

62-068A-03B

This data set has been restored. There was originally  
1 Binary 9-Track, 1600 BPI tape. There is one restored tape.  
The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI.  
The tape was created on an IBM 7094 computer. The DR and DS number  
along with the corresponding D number and the time span is as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR03061	DS03061	D00482	1	12/14/62 - 10/20/64

RELAY

IOS AVERAGE COUNT RATES TIME ORDERED. TAPE

62-068A-03C

This data set has been restored. There were originally 3 Binary 7-Track, 800 BPI tapes. There is one restored tape. The DR tapes are 3420 cartridges and the DS tapes are 7-track, 6250 BPI. The tapes were created on an IBM 7094 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
DR03125	DS03125	D00998	1	05/26/62 - 05/11/63
		D00999	2	05/12/63 - 11/21/63
		D01000	3	11/21/63 - 10/19/64

RELAY 1

10 S AVG COUNT RATE, TAPE

62-068A-03D

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY FIVE 7-TRACK, 556 BPI TAPES 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. ACCORDING TO AIM THERE IS A TIME SPAN FOR THESE TAPES, BUT THE TIME COULD NOT BE VERIFIED, THEREFORE THE TIME SPAN WILL ONLY BE MENTIONED IN THIS DESCRIPTIVE PARAGRAPH OF THE DATA SET: 12/14/62 - 10/20/64. THE ORIGINAL TAPES WERE CREATED ON A CDC COMPUTER AND WERE RESTORED ON THE MODCOMP. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBERS ARE AS FOLLOWS:

DR#	DS#	D#	FILES
DR003128	DS003128	D000483	1
		D000484	2
		D000485	3
		D000499	4
		D000500	5

TABLE OF CONTENTS

DATA SET CATALOG

TAPE FORMAT

FINAL 30 RECORDS TO TAPE D00482

SAMPLE OUTPUT FOR RELAY

RELAY OUTPUT DETECTOR A

PROGRAM FOR LISTING TAPE D00482

PROGRAM FOR PRODUCING MAX, MIN AND AVG COUNT RATES

7/17/73 -

The 'D' tape in this data set has been  
sent to the Federal Records Center for Storage.  
Only the 'C' tape remains in the Data Center.  
PAK.

D-482

121462-102064

Set  
Exp  
Det  
Tap  
Sou  
NSS  
NFS

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to

Data Set Catalog  
62-068A-03B

Satellite - Relay 1, 1962-C68A  
Experiment - SUI Proton-Electron Counters, 62-068A-03  
Data Set Title - L Sorted Tapes, 62-068A-03B  
Tape Number - NSSDC # D00482, UCSD #MC-9  
Source of Data Set - Provided by Dr. R. Walker Fillius  
NSSDC Acquisition Agent - James I. Vette  
NSSDC Programmer - Brenda Gibson

The experiment consists of four detectors. Detector A has a single readout channel. Detectors B, C, and D have 4 different discriminators with the readouts denoted as B1, B2, etc.. The data for B, C, D are collected when the detectors are pointing within  $10^\circ$  of the perpendicular to the B vector. Channels B5, B6, C5, C6, D5, and D6 are readings for discriminators 3 and 4 taken over all directions, not just those perpendicular to the B vector. More details of the instrument are given in A01686.

Tape Format - D00482

Mode	BCD
Track	7
Density	556
Logical Record Length	27 words = 216 characters
Physical Record Length	10 logical records
Tape produced by	CDC 3600

The first logical record of the tape is an alpha numeric record which reads as ( ) ( ) MB310 ( ) Relay ( ) EDIT ( ) From (4) o 1111111 (177) where the number of b's in the circle indicate blanks. A print out of the final 30 records are given in the following pages.

The other logical records contain the following information

<u>Characters</u>	<u>Parameter</u>	<u>Read By</u>
1-6	L	F6.3
7-8	Year	I2
9-19	Day and Fraction of Day	F11.7
20-25	B (Gauss)	F6.5
26-32	B/B <sub>0</sub>	F7.3
33-39	$\vec{B} \cdot \vec{S}/B S $ , $\vec{S}$ is spin vector	F7.6
40-44	Right Ascension (Hrs)	F5.1
45-49	Declination (Deg.)	F5.1
50-56	Latitude (Deg)	F7.3
57-64	Longitude (Deg)	F8.3
65-71	Radial Distance (KM)	F7.0
72-75	C7-Temperature	I4
76-83	Error Indicator	O8
84-90	Detector A Counting Rate	F7.1
91-97	Detector B1 Counting Rate	F7.1
98-105	B2	
106-112	B3	
113-119	B4	
120-126	B5	
127-133	B6	
134-140	C1	
141-147	C2	
148-153	C3	
154-160	C4	
161-167	C5	
168-174	C6	
175-181	D1	
182-188	D2	
189-195	D3	
196-202	D4	
203-209	D5	
210-216	D6	

*out of spec; Label*

( ) M 525 RELAY INTERPOLATION FROM M 812

7/64

( ) M 531 RELAY INTERPOLATION FROM M 843

08/10/64

( ) M 525 RELAY INTERPOLATION FROM M 8

07/30/64

( ) M 535 RELAY INTERP

937

08/13/64

( ) M 533 RELAY INTERPOLATION FROM M 840

08/08

( ) M 526 RELAY INTERPOLATION FROM M 843

7/64

( ) M 533 RELAY INTERPOLATION FROM M 933

08/08/64

( ) M 531 RELAY INTERPOLATION FROM M 7

08/10/64

( ) M 535 RELAY INTERP

939

08/17 64

( ) M 531 RELAY INTERPOLATION FROM M 783

08/10

( ) M 533 RELAY INTERPOLATION FROM M 773

9/64

( ) M 526 RELAY INTERPOLATION FROM M 942

07/30/64

( ) M 531 RELAY INTERPOLATION FROM M 7

08/10/64

( ) M 533 RELAY INTERP

928

08/09/64

( ) M 526 RELAY INTERPOLATION FROM M 846

07/30

3400 3 2114163498 5827 110817 520085 2115 -322 -47475 124362 137

3 0 0 0 0 0 0 0 0 0 0 0 0

0 -1 0 -1 2

U.S. GOVERNMENT PRINTING OFFICE: 1965-240-936

07/3

M 343

INTERPOLATION FROM M 345

1) M 535 RELAY INTERPOLATION FROM M

08/09/64

REC

7# \_LENGTH 1080

07/3

M 530

INTERPOLATION FROM M 780

1) M 535 RELAY INTERPOLATION FROM M

08/10/64

REC

8# \_LENGTH 1080

08/0

M 842

INTERPOLATION FROM M 782

1) M 533 RELAY INTERPOLATION FROM M

07/30/64

REC

9# \_LENGTH 432

-47475	124362	13751	105	2020
3	0	0	-1	116

SAMPLE OUTPUT FOR RELAY 62-C68A-038

L	YR	DAY	FRAC	R	R/HO	Hz/Hz	RA	DEC	LAT	
1.700	3	340	.6994237	.19378	1.636	.412001	101.0	44.0	10.653	2
1.700	3	339	.6722651	.10853	1.712	.417756	106.6	45.0	9.114	2
1.700	3	342	.6096166	.11132	1.755	.313517	116.4	39.1	-13.565	1
1.700	3	341	.5806657	.11393	1.796	.262309	116.5	36.1	-15.797	1
1.700	3	245	.1858861	.12308	1.940	.252484	70.2	29.1	-16.808	
1.700	4	68	.5688757	.12309	1.940	.542090	315.0	12.3	-37.840	3
1.700	2	348	.1331305	.12396	1.954	.047717	78.0	12.1	-37.292	3
1.700	3	184	.6206112	.12597	1.986	.822393	315.5	34.9	-14.698	1
1.700	3	314	.8152932	.13226	2.085	.195853	148.5	30.7	19.320	3
1.700	3	56	.4951936	.13338	2.103	.602640	316.0	16.6	-24.509	3
1.700	3	171	.0012970	.13349	2.104	.741871	313.7	27.3	-16.824	
1.700	3	176	.9118119	.13669	2.135	.764585	308.5	29.0	-15.385	
1.700	3	158	.1523461	.13926	2.195	.656045	326.5	21.9	-19.310	
1.700	3	61	.2455717	.13967	2.202	.744076	306.2	27.1	-16.469	
1.700	4	57	.6455463	.14063	2.217	.439633	327.3	6.9	-40.582	2
1.700	3	167	.0181270	.14205	2.239	.711691	317.9	25.2	-17.646	
1.700	4	52	.6359375	.14216	2.241	.437702	328.4	7.0	-39.886	3
1.700	4	67	.6692422	.14366	2.265	.449410	326.9	7.5	-38.190	2
1.700	4	53	.6632400	.14526	2.290	.415627	330.4	5.9	-41.185	2
1.700	4	58	.6744527	.14662	2.315	.411608	330.3	5.6	-40.502	2
1.700	3	210	.3286757	.14861	2.343	.095854	118.0	26.4	19.117	2
1.700	3	163	.0349641	.15103	2.381	.676880	322.3	23.1	-18.394	
1.700	4	54	.6911153	.15171	2.392	.384166	333.4	4.5	-41.180	2
1.700	3	165	.9902543	.15357	2.427	.692047	319.5	23.8	-17.731	
1.700	4	59	.7026586	.15451	2.436	.387768	333.1	4.7	-39.811	2
1.700	3	341	.6826945	.16558	2.453	.546993	312.7	12.4	-25.311	
1.700	4	53	.6854437	.16031	2.527	.371259	239.4	13.7	31.773	
1.700	3	159	.0517918	.16040	2.529	.644947	326.6	21.1	-19.102	
1.700	3	342	.5807408	.16159	2.547	.617356	310.8	17.3	-20.980	
1.700	4	54	.7128045	.16289	2.568	.387373	238.9	15.0	30.492	
1.700	3	334	.7450105	.16504	2.602	.481321	323.9	9.2	-27.480	2
1.700	3	152	.1133271	.16615	2.619	.596198	334.2	19.0	-20.250	
1.700	3	343	.8728987	.16959	2.673	.290413	346.0	1.5	-41.962	3
1.700	3	339	.8895153	.16963	2.674	.281062	349.0	1.7	-41.544	3
1.700	4	58	.6959223	.17132	2.701	.343893	234.6	13.7	30.882	
1.700	3	145	.1746699	.17150	2.704	.540046	342.2	16.9	-21.162	
1.700	3	335	.6428452	.17236	2.717	.560763	320.8	14.1	-22.270	
1.700	3	341	.5525363	.17279	2.724	.607156	312.6	16.7	-21.250	
1.700	4	39	.6331436	.17372	2.739	.517955	231.4	26.9	16.759	2
1.700	3	340	.5183027	.17445	2.750	.227783	356.5	0.6	-43.353	3
1.700	4	49	.5574373	.17997	2.837	.398774	349.9	9.4	-25.118	
1.700	3	131	.2976774	.18026	2.842	.417044	357.9	13.1	-22.674	
1.700	3	111	.9078560	.18124	2.857	.543776	246.2	23.3	19.283	2
1.700	3	124	.3592668	.18249	2.877	.353010	4.9	11.3	-23.519	
1.700	3	227	.4444764	.18251	2.877	.656212	259.5	27.4	16.552	3
1.700	3	27	.5852356	.18701	2.948	.397212	356.2	11.2	-23.389	
1.700	3	317	.7834640	.18745	2.955	.424036	345.0	9.7	-24.298	
1.700	3	200	.3279448	.19003	2.996	.383585	262.7	7.2	34.699	
1.700	3	130	.2699513	.19039	3.001	.407074	359.4	12.9	-22.763	
1.700	3	123	.3314720	.19204	3.027	.344436	7.8	11.7	-23.206	

OK RELAY 62-0684-039

	DEC	LAT	LONG	RC	TEMP	ERROR	A-RATE
0	44.0	10.653	252.158	9679.	216	4000004	3076.4
6	45.0	9.114	265.731	9544.	216	20000	2712.0
4	39.1	-13.545	169.720	5766.	229	0	2674.6
5	36.1	-15.767	180.142	9696.	227	20000	2544.1
2	29.1	-16.809	31.761	8923.	203	0	2388.1
0	12.3	-37.840	305.804	8659.	97	0	2142.6
0	12.1	-37.292	312.571	8582.	332	0	6729.2
5	34.9	-14.658	162.517	9516.	117	0	1656.7
5	30.7	19.320	332.791	8883.	223	4000003	2122.6
0	16.6	-24.505	357.027	8410.	135	0	1686.2
7	27.3	-16.824	54.148	8957.	134	0	1801.8
5	29.0	-15.385	74.659	9157.	122	4000007	1680.1
0	21.9	-19.310	26.238	8547.	149	0	1727.2
4	27.1	-16.469	66.505	9003.	151	0	1762.7
0	6.9	-40.582	296.279	8426.	125	0	1705.0
6	25.2	-17.646	55.250	8823.	139	0	1576.1
4	7.9	-39.886	313.159	8225.	146	4000002	1606.7
5	7.5	-39.190	270.957	8644.	100	0	1614.8
6	5.9	-41.185	257.706	8332.	144	0	1597.0
0	5.6	-40.502	264.109	8456.	114	0	1650.7
0	26.4	19.117	241.787	8885.	126	0	1393.3
3	23.1	-16.394	59.416	8694.	145	0	1381.6
4	4.5	-41.180	285.357	8365.	131	0	1467.7
5	23.8	-17.731	66.523	8784.	141	4000000	1311.4
1	4.7	-39.811	273.335	8450.	114	0	1389.5
7	12.4	-25.311	4.000	8061.	224	0	1194.0
4	13.7	31.773	17.443	8641.	150	0	1136.2
6	21.1	-19.102	60.623	8571.	143	0	1151.5
9	17.1	-20.980	33.563	8224.	224	0	1249.6
9	15.0	30.492	3.346	8537.	136	0	1166.1
0	9.2	-27.460	240.055	7865.	214	0	1009.2
4	19.0	-20.250	52.536	8374.	136	0	1075.0
0	1.5	-41.962	320.352	7728.	215	4000000	989.2
0	1.7	-41.544	322.200	7711.	217	4000000	958.1
5	13.7	30.882	0.973	8412.	119	0	1011.8
2	16.9	-21.162	45.477	8195.	123	0	996.4
5	14.1	-22.270	28.392	8008.	219	0	1050.9
5	16.7	-21.250	46.205	8185.	224	0	1010.3
4	26.9	16.759	266.915	8457.	200	400	920.3
5	0.6	-41.353	315.118	7703.	217	4000000	926.5
9	9.4	-25.118	12.910	7762.	170	0	869.1
5	13.1	-22.674	30.898	7914.	94	0	885.0
2	23.3	19.293	256.393	8430.	184	401	826.5
5	11.3	-23.519	23.508	7519.	102	0	841.0
5	27.4	16.552	306.975	8184.	190	0	794.5
6	11.2	-23.389	28.232	7796.	250	0	904.7
0	9.7	-24.298	20.602	7726.	219	0	766.0
7	7.2	34.695	26.797	8310.	98	0	578.6
4	12.9	-22.763	43.174	7898.	94	0	706.5
5	11.7	-23.206	36.217	7807.	107	0	722.4

7354158 42935305416 27 -1 -1 -1 -1 -1 -1 -17  
5 260292 12596 5 2 12963-136 21249976 3 7354158 42935306904 23 -1  
1 -1 -1 -17 4391 6577 17872 37796 260535 12610 5 2 12966-136 81249  
35306193 10 -1 -1 -1 -1 -1 -1 -17 4425 6565 18  
24 5 2 12969-141 81249986 3 8422158

42935309582 20 -1 -1 -1 -1 -1 -1 -17 4460 655  
12635 5 2 12973-144 81249992 3 8422158 42935310971 13 -1 -1  
-1 -17 4495 6540 19069 38215 261269 12652 5 2 12976-147 81249996 3  
20 -1 -1 -1 -1 -1 -1 -17 4530 6528 19484 3835  
12980-150 81250002 3 8422158 42935313749 13 -1 -1 -1 -1  
4556 6516 19906 38488 261760 12679 5 2 22983-152 81250006 3 7422158 4293  
-1 -1 -1 -1 -1 -1 -17 4601 6504 20336 38624 262006 126  
81250011 3 7383158 42935316526 10 -1 -1 -1 -1 -1 -1  
2 20773 38758 262252 12706 5 2 02990-157 81250014 3 7383158 42935317915  
-1 -1 -1 -1 -17 4673 6480 21219 38891 262499 12719 5 2 125  
7383158 42935319304 10 -1 -1 -1 -1 -1 -1 -17  
3 262747 12733 5 2 02997-162 81250021 3 7383158 42935320693 10 -1  
1 -1 -1 -17 4745 6456 22137 39154 262995 12746 5 2 13000-164 81250  
35322082 13 -1 -1 -1 -1 -1 -1 -17 4782 6445 22  
59 5 2 13003-167 81250028 4 8397158

42935323471 10 -1 -1 -1 -1 -1 -1 -17 4818 643  
12773 5 2 13007-169 81250031 4 8397158 42935324859 7 -1 -1  
-1 -17 4855 6422 23575 39541 263742 12786 6 2 13010-171 81250033 4  
10 -1 -1 -1 -1 -1 -1 -17 4891 6410 24071 3966  
13014-174 81250036 4 8397158 42935327637 10 -1 -1 -1 -1  
4928 6399 24576 39794 264242 12812 6 2 13017-176 81250039 3 8397158 429  
-1 -1 -1 -1 -1 -1 -17 4965 6387 25089 39919 264493 128  
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