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

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

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

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	11/21/10 - 1-/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

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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.
PAR.

D-482 121462-102064

Data Set Catalog
62-068A-03B

Satellite - Relay 1, 1962-068A
Experiment - SUI Proton-Electron Counters, 62-068A-03
Data Set Title - L Sorted Tape, 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° 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 b ( ) b MB310 b Relay b EDIT b From 4b o 11111111 177b 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

Characters	Parameter	Read By
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/Bo	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 file; label

()M 525 RELAY INTERPOLATION FROM M 812

0/64

()M 531 RELAY INTERPOLATION FROM M 343

08/10/64

()M 525 RELAY INTERPOLATION FROM M 8

07/30/64

()M 535 RELAY INTERP

937 08/13/64

()M 537 RELAY INTERPOLATION FROM M 840 08/09

()M 526 RELAY INTERPOLATION FROM M 843

0/64

()M 533 RELAY INTERPOLATION FROM M 933

08/08/64

()M 531 RELAY INTERPOLATION FROM M 7

08/10/64

()M 535 RELAY INTERP

938 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 842

07/30/64

()M 531 RELAY INTERPOLATION FROM M 7

08/10/64

()M 533 RELAY INTERP

828 08/09/64

()M 526 RELAY INTERPOLATION FROM M 846 07/30

3400 3 2514163408 5827 110817 520085 2115 -329 -47475 124362 137

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

0 -1 0 -1 2

07/3

M 343

TERPOLATION FROM M 845

IM 535 RELAY INTERPOLATION FROM M

08/09/64 REC 7. LENGTH 1080

07/3

M 530

TERPOLATION FROM M 780

IM 535 RELAY INTERPOLATION FROM M

08/10/64 REC 8. LENGTH 1080

08/0

M 842

TERPOLATION FROM M 782

IM 533 RELAY INTERPOLATION FROM M

07/30/64 REC 9. LENGTH 432

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

SAMPLE OUTPUT FOR RELAY 62-068A-038

L	YR	DAY	FRAC	B	B/BO	BUS/BIS	RA	DEC	LAT	
1.700	3	340	.8994239	.10378	1.636	.412001	101.0	44.0	10.653	2
1.700	3	339	.8722651	.10843	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	.11353	1.796	.262309	116.5	36.1	-15.797	1
1.700	3	245	.1858961	.12308	1.940	.252484	70.2	28.1	-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	.6206152	.12557	1.986	.822393	315.5	34.9	-14.658	1
1.700	3	314	.8152932	.13226	2.085	.195853	148.5	30.7	19.320	3
1.700	3	56	.4951536	.13338	2.103	.602640	316.0	16.6	-24.509	3
1.700	3	171	.0012870	.13349	2.104	.741871	313.7	27.3	-16.824	
1.700	3	176	.9118119	.13669	2.155	.764585	308.5	29.0	-15.385	
1.700	3	158	.1523451	.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	.6465463	.14063	2.217	.435633	327.3	6.9	-40.582	2
1.700	3	167	.0181270	.14205	2.239	.711591	317.9	25.2	-17.646	
1.700	4	52	.6359875	.14216	2.241	.437702	328.4	7.0	-39.886	3
1.700	4	67	.6693422	.14366	2.265	.449410	326.9	7.5	-38.190	2
1.700	4	53	.5632400	.14526	2.290	.415627	330.4	5.9	-41.185	2
1.700	4	58	.6744527	.14662	2.315	.411508	330.3	5.6	-40.502	2
1.700	3	210	.3286757	.14861	2.343	.055854	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	.384186	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	.15558	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	.0517919	.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	.1746659	.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	.0331436	.17372	2.739	.517955	231.4	26.9	16.759	2
1.700	3	340	.9183027	.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	.2978774	.18026	2.842	.417044	357.5	13.1	-22.674	
1.700	3	111	.9078660	.18124	2.857	.543776	246.2	23.3	19.283	2
1.700	3	124	.3592868	.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	.5852358	.18701	2.948	.397212	356.2	11.2	-23.389	
1.700	3	317	.7834540	.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	

OR RELAY 62-0684-039

	DEC	LAT	LONG	RC	TEMP	ERROR	A-RATE
0	44.0	10.653	252.158	9699.	216	4000004	3076.4
6	45.3	9.114	265.731	9544.	216	20000	2712.0
4	39.1	-13.565	169.720	9786.	229	0	2674.6
5	36.1	-15.797	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	1956.7
5	30.7	19.320	332.701	8883.	223	4000000	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	74.459	9157.	122	4000000	1680.1
5	31.9	-19.310	26.238	8547.	149	0	1727.2
2	27.1	-16.469	66.505	9003.	151	0	1702.7
3	6.9	-40.582	296.279	8426.	125	0	1706.0
9	25.2	-17.646	56.250	8823.	139	0	1576.1
4	7.0	-39.886	313.159	8225.	146	4000002	1606.7
5	7.5	-38.190	270.957	8644.	100	0	1614.8
4	5.9	-41.185	297.706	8332.	144	0	1597.0
3	5.6	-40.502	284.109	8456.	114	0	1550.7
0	26.4	19.117	241.787	8885.	126	0	1393.3
3	23.1	-18.394	58.416	8694.	145	0	1381.6
4	4.5	-41.180	285.357	8365.	131	0	1467.7
5	23.8	-17.731	68.523	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	60.625	8571.	143	0	1151.5
8	17.3	-20.980	33.563	8224.	224	0	1249.6
9	15.0	30.492	3.346	8537.	136	0	1166.1
9	9.2	-27.480	240.055	7865.	214	0	1009.2
2	19.0	-20.250	52.936	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
6	13.7	30.882	0.973	8412.	119	0	1011.8
2	15.9	-21.162	45.477	8195.	123	0	999.4
8	14.1	-22.270	28.302	8008.	219	0	1050.9
6	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	-43.353	315.118	7703.	217	4000000	928.5
9	9.4	-25.118	12.910	7762.	170	0	869.1
5	13.1	-22.674	30.898	7914.	94	0	888.0
2	23.3	19.283	256.393	8430.	184	401	826.5
9	11.3	-23.519	23.508	7819.	102	0	841.0
5	27.4	16.552	306.975	8189.	190	0	794.5
2	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
8	11.7	-23.206	36.217	7807.	107	0	722.4

```
 7354158 42935306416      27        -1       -1       -1       -1       -1       -1      -17      4
5 260292 12596  5  2  12963-136 81249976  3  7354158 42935306804      23        -1
1     -1     -1     -17     4391 6577 17872 37796 260535 12610  5  2  12966-138 8124
35308193      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
 12636  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       -
    4566 6516 19906 38498 261760 12679  5  2  22983-152 81250006  3  7422158 429
  -1       -1       -1       -1       -1       -1      -17     4601 6504 20336 38624 262006 126
81250011  3  7383158 42935316526      10        -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  12
 7383158 42935319304      10        -1       -1       -1       -1       -1      -17      4
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 8125
35322082      13        -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       -
    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
81250042  3  7397158 42935330415       7        -1       -1       -1       -1       -1       -
5 25608 40042 264744 12837  6  2  13024-181 81250044  3  7372158 42935331804
    -1       -1       -1       -1      -17     5040 6364 26138 40165 264996 12850  6  2  03
 7372158 42935333193       3        -1       -1       -1       -1       -1       -1      -17      5
7 265248 12863  6  2  13031-186 81250048  3  7372158 42935334581       3        -1
1     -1     -1     -17     5115 6341 27226 40407 265501 12875  6  2  13034-188 8125
35335970      10        -1       -1       -1       -1       -1       -1      -17     5152 6330 27
88  6  2  03037-190 81250052  4  7372158

 42935337359      17        -1       -1       -1       -1       -1       -1      -17     5190 631
 12900  6  2  13041-192 81250057  4  7374158 42935338748      10        -1       -1
   -1     -17     5228 6307 28926 40764 266263 12913  5  2  13044-194 81250060  4
     10        -1       -1       -1       -1       -1       -1      -17     5266 6296 29510 4088
  13048-196 81250063  4  7374158 42935341526      10        -1       -1       -1       -
    5304 6285 30103 40996 266774 12937  5  2  03051-198 81250066  4  7374158 429
  -1       -1       -1       -1       -1       -1      -17     5343 6274 30705 41111 267030 129
81250070  3  7374158 42935344303       7        -1       -1       -1       -1       -1       -
3 31317 41224 267287 12961  5  2  13059-203 81250072  3  8386158 42935345692
    -1       -1       -1       -1      -17     5420 6252 31936 41337 267544 12973  5  2  13
 8386158 42936633423      13        -1       -1       -1       -1       -1       -1      -15 40
7 221644 12995 -1  2  13020-153 86918195 -1 -1 -1158 42936634811      43        -1
1     -1     -1     -17     3971 5854 11755 41717 221903 13006 -1  2  13023-155 8691
36636200      23        -1       -1       -1       -1       -1       -1      -17     3996 5847 11
18 -1  2  13027-157 86918216  4  6 -1158

 42936637589      20        -1       -1       -1       -1       -1       -1      -17     4022 584
 13029 -1  3  13030-160 86918222  4  6397158 42936638978       6        -1       -1
   -1     -17     4048 5835 12416 42038 222683 13041 -1  2  13033-162 86918224  4
     33        -1       -1       -1       -1       -1       -1      -17     4074 5828 12644 4214
  13036-165 86918233  4  6397158 42936641756      17        -1       -1       -1       -
    4100 5822 12877 42247 223208 13063  5  2  13040-167 86918238  4  6397158 429
  -1       -1       -1       -1       -1       -1      -17     4126 5816 13115 42349 223466 130
86918241  3  6397158 42936644533      13        -1       -1       -1       -1       -1       -
0 13356 42451 223729 13085  5  2  13046-172 86918245  3  8335158 42936645922
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 4460 6553 18662 38076 261024  REC     25. LENGTH  1440
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19484 38352 261514 12666  5  2
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422158 42935315137      17
262006 12693  5  2  12986-155
  -1      -1     -17     4627 649
317915      13        -1      -1
 5  2  12993-159 81250018  3
  -17     4709 6468 21674 3902
0        -1      -1      -1     -
0-164 81250024  4  7383158 429
82 6445 22608 39284 263243 127

 4818 6433 23087 39413 263492  REC     26. LENGTH  1440
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24071 39668 263992 12799  6  2
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397158 42935329026      10
264493 12825  6  2  13020-179
  -1      -1     -17     5002 637
331804      10        -1      -1
 5  2  03027-184 81250047  3
  -17     5077 6352 26678 4028
3        -1      -1      -1     -
4-188 81250049  3  7372158 429
52 6330 27784 40527 265755 128

 5190 6318 28351 40646 266005  REC     27. LENGTH  1440
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250060  4  7374158 42935340137
29510 40880 266518 12925  5  2
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374158 42935342914      13
267030 12949  5  2  13055-200
  -1      -1     -17     5381 626
345692      10        -1      -1
 5  2  13062-205 81250075  3
  -15 40 3945 5860 11542 4160
3        -1      -1      -1     -
3-155 86918209 -1 -1 -1158 429
96 5847 11970 41825 222162 130

 4022 5941 12191 41932 222422  REC     28. LENGTH  1440
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918224  4  6397158 42936640367
12644 42143 222944 13052  5  2
 -1      -1      -1      -1     -17
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223466 13074  5  2  13043-170
  -1      -1     -17     4153 581
545922      23        -1      -1
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28  5  2  13059-180 86918266  3  8335158

 42936651478      20        -1      -1      -1      -1      -1      -1      -17     42
 13139  5  2  13062-182 86918272  3  7335158 42936652866      17        -1
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86918293  3  7400158 42936658422      10        -1      -1      -1      -1      -
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YR DAY

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  4261 5785 14360 42850 224785 131


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5768 15157 43138 225581 13160  5  2
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3  7400158 42936657033      20
1324 226113 13181  5  2  13075-191
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   10        -1      -1      -1      -
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4198 228804 13280  6  2  13109-210
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