#408

Earth Sc.

NIMBUS 6 SCAMS
SCANNING MICROWAVE SPECT.
75-052A-10A

ESAD-00093

Table of Contents

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

NIMBUS 6

SCAMS SCANNING MICROWAVE SPECTROMETER

75-052A-10A ESAD-00093

This data set has been restored. There was originally 97 Binary 9-Track, 1600 BPI tapes. There are 23 restored tapes. The DR and DS tapes are 9-track, 6250 BPI. The 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
DR00001	DS00001	D29032	1-4	06/15/75 - 06/23/75
		D29034	5-8	06/25/75 - 06/27/75
		D29035	9-13	06/28/75 - 07/01/75
DR00002	DS00002	D29036	1-4	07/02/75 - 07/05/75
		D29033	5-8	07/06/75 - 07/09/75
		D29003	9-12	07/10/75 - 07/13/75
		D29004	13-16	07/14/75 - 07/17/75
DR00003	DS00003	D29029	1-4	07/18/75 - 07/21/75
		D29030	5-8	07/22/75 - 07/25/75
		D29031	9-12	07/26/75 - 07/29/75
DR00004	DS00004	D28997	1-4	07/30/75 - 08/02/75
		D28996	5-8	08/03/75 - 08/06/75
		D28995	9-12	08/07/75 - 08/10/75
		D28998	13-16	08/11/75 - 08/14/75
DR00005	DS00005	D28999	1-4	08/15/75 - 08/18/75
		D29037	5-8	08/19/75 - 08/22/75
		D29000	9-12	08/23/75 - 08/26/75
		D29001	13-16	08/27/75 - 08/30/75
DR00006	DS00006	D29002	1-4	08/31/75 - 09/03/75
		D29005	5-8	09/04/75 - 09/07/75
		D29027	9-12	09/08/75 - 09/11/75
		D29028	13-16	09/12/75 - 09/15/75
DR00007	DS00007	D29038	1-4	09/16/75 - 09/19/75
		D29039	5-8	09/20/75 - 09/23/75
		D29040	9-12	09/24/75 - 09/27/75
		D29041	13-16	09/28/75 - 10/01/75
DR00008	DS00008	D29042	1-4	10/02/75 - 10/05/75
		D29043	5-8	10/06/75 - 10/09/75
		D29044	9-12	10/10/75 - 10/13/75
		D29045	13-16	10/14/75 - 10/17/75

DR#	DS#	D#	FILES	TIME SPAN
DR00009	DS00009	D28985	1-4	10/18/75 - 10/21/75
		D28986	5-8	10/22/75 - 10/25/75
		D28987	9-12	10/26/75 - 10/29/75
		D28988	13-16	10/30/75 - 11/02/75
DR00010	DS00010	D29046	1-4	11/03/75 - 11/06/75
		D29047	5-8	11/07/75 - 11/10/75
		D29048	9-12	11/11/75 - 11/14/75
		D29049	13-16	11/15/75 - 11/18/75
DR00011	DS00011	D29050	1-4	11/19/75 - 11/22/75
		D29026	5-8	11/23/75 - 11/26/75
		D28989	9-12	11/27/75 - 11/30/75
		D28990	13-16	12/01/75 - 12/04/75
DR00012	DS00012	D28991	1-4	12/05/75 - 12/08/75
		D28992	5-8	12/09/75 - 12/12/75
		D28993	9-12	12/13/75 - 12/16/75
		D29016	13-16	12/17/75 - 12/20/75
DR00013	DS00013	D29017	1-4	12/21/75 - 12/24/75
		D28994	5-8	12/25/75 - 12/28/75
		D29015	9-12	12/29/75 - 01/01/76
		D29018	13-16	01/02/76 - 01/05/76
DR00014	DS00014	D29019	1-4	01/06/76 - 01/09/76
		D29020	5-8	01/10/76 - 01/13/76
		D29022	9-12	01/14/76 - 01/17/76
		D29023	13-16	01/18/76 - 01/21/76
DR00015	DS00015	D29021	1-4	01/22/76 - 01/25/76
		D29024	5-8	01/26/76 - 01/29/76
		D29025	9-12	01/30/76 - 02/02/76
		D28983	13-16	02/03/76 - 02/06/76
DR00016	DS00016	D28984	1-4	02/07/76 - 02/10/76
		D29006	5-8	02/11/76 - 02/14/76
		D29007	9-12	02/15/76 - 02/18/76
		D29008	13-16	02/19/76 - 02/22/76
DR00017	DS00017	D29009	1-4	02/23/76 - 02/26/76
		D29010	5-8	02/27/76 - 03/01/76
		D29011	9-12	03/02/76 - 03/05/76
		D29012	13-16	03/06/76 - 03/09/76
DR00018	DS00018	D29013	1-4	03/10/76 - 03/13/76
		D29014	5-8	03/14/76 - 03/17/76
		D28982	9-12	03/18/76 - 03/21/76
		D28981	13-16	03/22/76 - 03/25/76
DR00019	DS00019	D28980	1-4	03/26/76 - 03/29/76
		D28979	5-8	03/30/76 - 04/02/76
		D28978	9-12	04/03/76 - 04/06/76
		D28977	13-16	04/07/76 - 04/10/76
DR00020	DS00020	D28976	1-4	04/11/76 - 04/14/76
		D28975	5-8	04/15/76 - 04/18/76
		D28974	9-12	04/19/76 - 04/22/76
		D28973	13-16	04/23/76 - 04/26/76

DR#	DS#	D#	FILES	TIME SPAN
DR00021	DS00021	D28972	1-4	04/27/76 - 04/30/76
		D28964	5-8	05/01/76 - 05/04/76
		D28965	9-12	05/05/76 - 05/08/76
DR00022	DS00022	D28966	1-4	05/09/76 - 05/12/76
		D28967	5-8	05/13/76 - 05/16/76
		D28968	9-12	05/17/76 - 05/20/76
		D28969	13-16	05/21/76 - 05/24/76
DR00023	DS00023	D28970	1-4	05/25/76 - 05/28/76
		D28971	5-7	05/29/76 - 05/31/76

REQ. AGENT	RAND NO.	ACQ. AGENT
DBN	RC7429	DVR

NIMBUS 6 SCAMS

SCANNING MICROWAVE SPECT.

75-052A-10A

This data set consists of 87 data tapes. The data tapes are 1600 BPI, Binary, 9 track, and most consists of 4 files*. The tapes were created on a IBM 360/75.

* SOTA 19 and SOTA 87 contain 3 files and SOTA 17 contains 6 files.

D#	C#	SOTA#	TIME SPAN
D-28964	C-18832	80	5/01/76 - 5/04/76
D-28965	C-18833	81	5/05/76 - 5/08/76
D-28966	C-18834	82	5/09/76 - 5/12/76
D-28967	C-18835	83	5/13/76 - 5/16/76
D-28968	C-18836	84	5/17/76 - 5/20/76
D-28969	C-18837	85	5/21/76 - 5/24/76
D-28970	C-18838	86	5/25/76 - 5/28/76
D-28971	C-18839	87 *	5/29/76 - 5/31/76
D-28972	C-18840	79	4/27/76 - 4/30/76
D-28973	C-18841	78	4/23/76 - 4/26/76
D-28974	C-18842	77	4/19/76 - 4/22/76
D-28975	C-18843	76	4/15/76 - 4/18/76
D-28976	C-18844	75	4/11/76 - 4/14/76
D-28977	C-18845	74	4/07/76 - 4/10/76
D-28978	C-18846	73	4/03/76 - 4/06/76
D-28979	C-18847	72	3/30/76 - 4/02/76
D-28980	C-18848	71	3/26/76 - 3/29/76
D-28981	C-18849	70	3/22/76 - 3/25/76
D-28982	C-18850	69	3/18/76 - 3/21/76
D-28983	C-18851	58	2/03/76 - 2/06/76
D-28984	C-18852	59	2/07/76 - 2/10/76
D-28985	C-18853	37	10/18/75 - 10/21/75
D-28986	C-18854	38	10/22/75 - 10/25/75
D-28987	C-18855	39	10/26/75 - 10/29/75
D-28988	C-18856	40	10/30/75 - 11/02/75
D-28989	C-18857	41	11/27/75 - 11/30/75

D#	C#	SOTA#	TIME SPAN
D-28990	C-18858	42	12/01/75 - 12/04/75
D 28991	C-18859	43	12/05/75 - 12/08/75
D-28992	C-18860	44	12/09/75 - 12/12/75
D-28993	C-18861	45	12/13/75 - 12/16/75
D-28994	C-18862	46	12/25/75 - 12/28/75
D-28995	C-18863	1	8/07/75 - 8/10/75
D-28996	C-18864	2	8/03/75 - 8/06/75
D-28997	C-18865	3	7/30/75 - 8/02/75
D-28998	C-18866	4	8/11/75 - 8/14/75
D-28999	C-18867	5	8/15/75 - 8/18/75
D-29000	C-18868	6	8/23/75 - 8/26/75
D-29001	C-18869	7	8/27/75 - 8/30/75
D-29002	C-18870	8	8/31/75 - 9/03/75
D-29003	C-18871	9	7/10/75 - 7/13/75
D-29004	C-18872	10	7/14/75 - 7/17/75
D-29005	C-18873	11	9/04/75 - 9/07/75
D-29006	C-18874	60	2/11/76 - 2/14/76
D-29007	C-18875	61	2/15/76 - 2/18/76
D-29008	C-18876	62	2/19/76 - 2/22/76
D-29009	C-18877	63	2/23/76 - 2/26/76
D-29010	C-18878	64	2/27/76 - 3/01/76
D-29011	C-18879	65	3/02/76 - 3/05/76
D-29012	C-18880	66	3/06/76 - 3/09/76
D-29013	C-18881	67	3/10/76 - 3/13/76
D-29014	C-18882	68	3/14/76 - 3/17/76
D-29015	C-18883	47	12/29/75 - 1/01/76
D-29016	C-18884	48	12/17/75 - 12/20/75

D#	C#	SOTA#	TIME SPAN
D-29017	C-18885	49	12/21/75 - 12/24/75
D-29018	C-18886	50	1/02/76 - 1/05/76
D-29019	C-18887	51	1/06/76 - 1/09/76
D-29020	C-18888	52	1/10/76 - 1/13/76
D-29021	C-18889	53	1/12/76 - 1/15/76
D-29022	C-18890	54	1/14/76 - 1/17/76
D-29023	C-18891	55	1/18/76 - 1/21/76
D-29024	C-18892	56	1/26/76 - 1/29/76
D-29025	C-18893	57	1/30/76 - 2/02/76
D-29026	C-18894	36	11/23/75 - 11/26/75
D-29027	C-18895	12	9/08/75 - 9/11/75
D-29028	C-18896	13	9/12/75 - 9/15/75
D-29029	C-18897	14	7/18/75 - 7/21/75
D-29030	C-18898	15	7/22/75 - 7/25/75
D-29031	C-18899	16	7/26/75 - 7/29/75
D-29032	C-18900	17 *	6/15/75 - 6/23/75
D-29033	C-18901	18	7/06/75 - 7/09/75
D-29034	C-18902	19 *	6/25/75 - 6/27/75
D-29035	C-18903	20	6/28/75 - 7/01/75
D-29036	C-18904	21	7/02/75 - 7/05/75
D-29037	C-18905	22	8/19/75 - 8/22/75
D-29038	C-18906	23	9/16/75 - 9/19/75
D-29039	C-18907	24	9/20/75 - 9/23/75
D-29040	C-18908	25	9/24/75 - 9/27/75
D-29041	C-18909	26	9/28/75 - 10/01/75
D-29042	C-18910	27	10/02/75 - 10/05/75
D-29043	C-18911	28	10/06/75 - 10/09/75

D#	C#	SOTA#	TIME SPAN
D-29044	C-18912	29	10/10/75 - 10/13/75
D-29045	C-18913	30	10/14/75 - 10/17/75
D-29046	C-18914	31	11/03/75 - 11/06/75
D-29047	C-18915	32	11/07/75 - 11/10/75
D-29048	C-18916	33	11/11/75 - 11/14/75
D-29049	C-18917	34	11/15/75 - 11/18/75
D-29050	C-18918	35	11/19/75 - 11/22/75

B R I E F D E S C R I P T I O N
SCAMS Output Tp of H20+Tmp(SOTA)
75-052A-10A

This data set of meteorological parameters was prepared by the experimenter's office on an IBM 360/75 binary magnetic tapes. It contains: 1) brightness temperatures from five channels (22.235 to 55.45 GHz); 2) retrieved water vapor amount and cloud water content over calm oceans; 3) inverted mean layer temperatures for 1000-500 mbar, 500-250 mbar, and 250-100 mbar; and 4) derived temperatures for 14 standard pressure levels from 1000 to 100 mbar. Spatial resolution on the ground varies from 145 km at nadir to 330 at scan extremes. Normally, one tape contains 4 days of data.

M A T E R I A L S F O R D I S T R I B U T I O N
75-052A-10A
SCAMS Output Tp of H20+Tmp(SOTA)

1) B23261-000A "Nimbus 6 User's Guide".
2) B28850-000A "Memo to NEWS/SCAMS File", MIT Memorandum, Nov. 1976.

Notes:

1) Operation of some SCAMS channels was intermittent prior to July 10.

2) 6 files on SOTA 17: June 15, 16, 20, 21, 22, 23; file 5, 20.5 hours; file 6, 5.3 hours of data.

3) 3 files on SOTA 19: June 25, 26, 27.

4) These tapes do not incorporate the empirical corrections for asymmetry of the O_2 antenna.

5) On SOTA 1 only, orbits spanning OOZ were written in the file belonging to the earlier day.

6) File 4 of SOTA 29 has 1 write error.

7) File 4 of SOTA 54 has much bad data.

8) Orbits are out of order in file 3 of SOTA 59 and file 1 of SOTA 86.

9) The drive belt for the ch. 2 antenna started slipping on March 26. Ch. 2 was turned off on May 10.

10) Orbit 7609805 consists entirely of bad data.

11) Orbits 7612704, 7612705, 7612706 are duplicated in file 2 of SOTA 81. Orbits are also out of order.

12) Playback orbit 2462 is misnumbered as 2262.

13) The scan mechanism jammed at 19:1:22 on May 31 (playback orbit 4751).

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

RESEARCH LABORATORY OF ELECTRONICS

CAMBRIDGE, MASS. 02139

March 19, 1976
Revised November 4, 1976

MEMORANDUM

To: NEMS/SCAMS file

From: P. W. Rosenkranz

Subject: SCAMS archival data formats from program 2.

The second pass processing of SCAMS data produces output in three forms: microfiche, which contains seven parameter maps and diagnosis, the SOTA (SCAMS Output Tape), which contains both the raw data and all retrieved parameters, and the SOTA', which is a merge of the retrieved parameters with the corresponding NMC data (where available).

1. *MICROFICHE.* A printed version of the MAP7 output is shown in fig. 1. The header line contains the playback orbit number, reference orbit number, date and hour of processing, number of times the data has been run, type number, and page number. The reference number is a concatenation of the year, day, and hour of the orbit end. The header line from the second frame on each fiche is reproduced at normal size at the top of each fiche to facilitate reference. In addition the fiche are numbered from the start of each computer run. The first frame from each run, on fiche 1, contains diagnosis and calibration constants and other information. Each fiche has space for 207 pages, or slightly less than 2 days of data.

Referring again to fig. 1, from left to right, we have latitude and (east) longitude of the center of the scan, start time (UT) of the frame, and seven parameter maps. These are M1: channel 2 T_B - channel 1 T_B(K); M2: channel 2 T_B(K); M3: water vapor (mm); M4: liquid water (mm); M5: 1000-500 mb mean temperature (K); M6: 500-250 mb mean temperature (K); M7: 250-100 mb mean temperature (K). The maps are printed with a 40 character set that runs 0-9, A-Z, -, =, +, *. The baseline (ZERO) and increment (DELTA) for each map are printed at the top. The range of parameter values thus defined is called register 0. If the parameter value lies outside this range the character set repeats in registers 1, 2, etc. on the high side or register *, +, etc. on the low side. The register in which the leftmost scan position lies is printed on the left of the map for every twentieth frame, or whenever it changes. For example, in the scan centered on 17.0°S, 18.0°E at 23H 37M 51S, the leftmost scan position has a 1000-500 mb mean temperature of 280 K. Since water vapor and liquid water are not retrieved over land, M3 and M4 are blanked out in the fifth

and sixth scan positions of this frame (which are over the Fiji Islands). Note that the day changed near the middle of the page, so that the frame referred to above was from day 230, as determined from the reference number. Because of the large range of channel 2 T_B, ambiguity will result when a scan contains data from both land and ocean, but this ambiguity should always be resolved by M3 and M4, which will be blank over land. Occasionally all of the parameters will be blanked out. This condition will arise from either sync errors or missing data.

For orbits 7604004 through 7608523, the value of ZERO for liquid water (M4) was set at 0.3 instead of 0.0 as in the rest of the data (the reason for this was to take advantage of the special characters in the character set). Since this variable is printed with no decimal places, the value appears as 0. on the microfiche.

Most of the SCAMS data are printed on fiche as type 3, described above. Exceptions to type 3 are: days 75-166 through 75-190 are printed as type 2, in which M5, M6, M7 are channel 3, 4, 5 T_B's; days 75-211 through 75-214 are printed as type 1, in which M1 is channel 1 T_B; and days 76-086 through 76-152 are printed as type 4, in which M1 and M2 are channel 1 T_B with different scales, M3 is channel 3 T_B, and M4 is channel 5 T_B.

Because of the ratio of height to width of the printer characters, the microfiche maps are quite distorted, even more than the EIS images. Available from D. H. Staelin are standard forms to transfer data from the microfiche to mercator or polar stereographic projections.

Following each orbit is a page of instrument diagnosis, as in fig. 2. Statistics are printed for the 5 channels for earth data (TA), calibration target (CAL) and space (SKY), and for pitch and roll. The columns across the page give a breakdown by page (of MAP7) followed by an orbit snyopsis and the number of times the flag or limit condition was encountered during the orbit. These limits are listed on the first frame of each run, and may be changed occasionally. They are internal to the diagnosis program and are not involved in any other steps of processing. The above statistics are all-inclusive; that is, they cover all data that fall within the indicated category.

Next are physical temperatures of the three calibration targets (A sensors) and two instrument temperatures (actually channel's 1 and 3 reference loads), followed by the mixer currents (given in counts). Since these data are slowly varying, they are sampled from the middle of each page of MAP7. There are two counts on the right, for upper and lower limits, giving the number of samples that raised flags.

The last line of diagnosis gives 3 numbers for each page of MAP7, indicating the number of frames in which the scan failed to increment properly, frames in which either of the sync summary bits was set, and missing frames.

2. *SOTA*. Table 1 lists the data recorded on the SOTA for each frame. As on the microfiche, time runs backwards within each orbit, but orbits are recorded in ascending order. Unlike the microfiche, no record is written for frames with sync error or for missing frames. Orbits are assigned to days according to reference number, and an end of file is written after each day. One tape contains 4 days of data. Tapes from 1975 end with an even day that is not divisible by 4, and tapes from 1976 start with an even day not divisible by 4.

The data missing flag is a Fortran logical variable that provides a summary of bits 1-5 in the parameter 38 flags. That is, this variable is TRUE whenever any of the 5 channels was outside the bounds of 100-400 K on antenna temperature, in any of the 13 earth positions.

The ascending flag is TRUE for the last frame of the orbit (first frame on the tape) and whenever latitude increases with time.

Lost Frames is the number of frames missing between the current and the previous (on the tape) frame. However, it has been observed that single missing frames are sometimes not counted in this word. Therefore one should check the time in cases where continuity of data is important.

Digital A is the raw data, starting with word 0.

The playback orbit number is not unique; two consecutive orbits may have the same number, and occasionally the later orbit has a smaller number.

Thirty-eight parameter slots of length 13 are provided. These are 2 byte words, to conserve tape. Before conversion, parameters 1-33 are multiplied by 32 to preserve precision. When the tape is read, a floating point division should be performed on them to recover the original value.

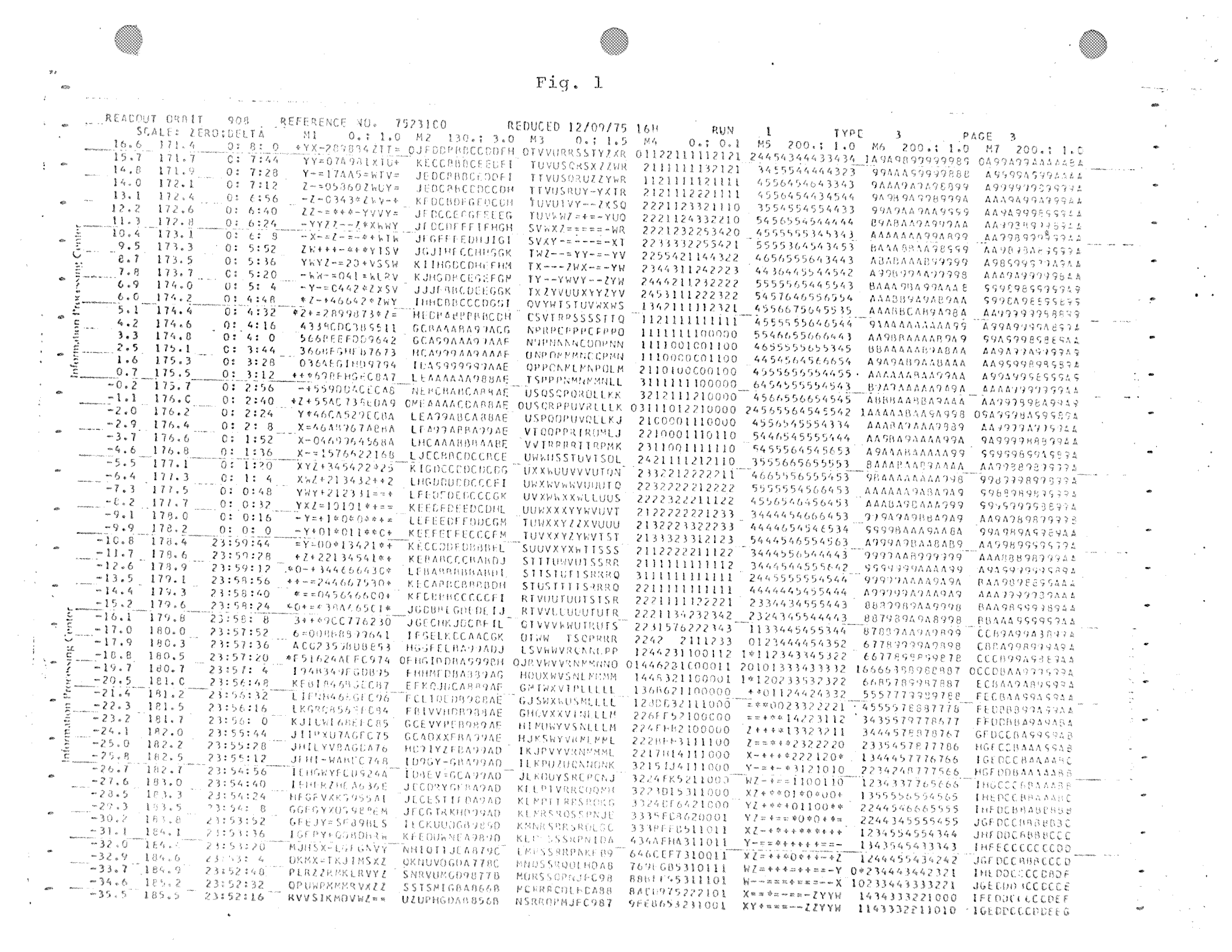
The numbers stored in surface elevation (slot 6) are actually equal to (height *32 + 1) over land, as indicated by the stored map within program 2. For open ocean the surface elevation is 0. A value of 1 indicates ambiguity or a region where sea ice may occur. This is an *a priori* indicator of surface type, to be distinguished from bit 0 of the slot 38 flags, which records the matrix (ocean or land) used by program 2 to invert the data.

The layer temperatures, slots 17-19, are the means, averaged over the logarithm of pressure.

SOTA 1 through 49 were written with RECFM = FB, LRECL = 1400, BLKSIZE = 4200. These tapes were also calibrated with no offset in the target temperature. (See The Nimbus 6 Data Catalog, pp. 5-5, 5-6.) Starting with SOTA 50, the format was changed to VBS and the offset to -1.2° for channels 3, 4, and 5. Thus the tape format indicates the calibration used. If the data is recalibrated, the tapes will be written in VBS.

3. *SOTA'*. Table 2 lists the data recorded on the SOTA', for each frame. The format is similar to the SOTA, but omitted are the raw data, instrument temperatures, and antenna temperatures, and added are the NMC analysis and (sometimes) forecast for the time and location of each SCAMS spot. If no analysis is available, as in the Southern Hemisphere, no record is written. If the analysis but not the forecast is available, the record is written with a zero forecast field (or alternatively -1's if the forecast was not asked for).

Fig. 1



READOUT ORBIT 908 REFERENCE NO. 7523100 REDUCED 12/09/75 16H RUN 1 TYPE 3 PAGE 3

SCALE: ZERO:	DELTA	M1 0.: 1.0	M2 130.: 3.0	M3 0.: 1.5	M4 0.: 0.1	M5 200.: 1.0	M6 200.: 1.0	M7 200.: 1.0
16.6 171.4	0: 8: 0	+YX-2038342IT=	OJFDDPRBCCDDFH	OTVVURRSSTYZXR	0112211111121 21	24454344433434	1A9A9899999989	0A99A99AAAAA8A
15.7 171.7	0: 7:44	YY=07A98IXIU+	KECCBBDCEEDEI	TUVUSQRSXZZWR	211111132121	3455544444323	99AAA9999988B	A9999A999A8AA
14.8 171.9	0: 7:28	Y-=17AA5=WIV=	JEDCBBBCEDDFI	TTVUSQRUZZYWR	11211111121111	4556454643343	9AAA9AA98B999	A99999999999A
14.0 172.1	0: 7:12	Z-=05860ZWUY=	JEDCBBCEDCCDH	TTVUSRUY-YXTR	2121112221111	4556454434544	9A98A9998999A	AAA9A99A99994
13.1 172.4	0: 6:56	-Z-0343*ZWY-+	KEDCBDFGFDCDH	TUVUTVY--ZXSQ	2221123321110	3554554554433	99A9AA9AA9999	AA9A999E99994
12.2 172.6	0: 6:40	ZZ-=+**-YVVY=	JEDCCEFGFEEEG	TUVVWZ=+=-YUQ	2221124332210	5456554544444	B9ABAA9A999AA	AA99B9999999A
11.3 172.8	0: 6:24	-YYZZ--Z*XWWY	JEDCDFFFIFHGH	SVWXZ=====-WR	2221232253420	4555555345343	AAAAAAA99A899	AA998999999AA
10.4 173.1	0: 6: 9	-X-=Z-=-**WIW	JHGFFFEDHJIGI	SVXY-=----=-XI	2233332255421	5555364543453	BAAA98AA98599	AA9878A999994
9.5 173.3	0: 5:52	ZW***-**+*YISV	JGJIHFCCHHGGK	TWZ--=YY-=-YV	2255421144322	4656555643443	ABABAAAB99999	A9859999A9AAA
8.7 173.5	0: 5:36	YWYZ-=23+VSSW	KIIHGDCDHGFHM	TX---ZWX-=-YW	2344311242223	4436445544542	A99B994A99998	AAA9A9999984A
6.9 173.7	0: 5:20	-WW-=041=WLRV	KJHGDFCEGEFGM	TY--YWVY--ZYW	2444211232222	5555565445543	BAAA9BA99AAA8	9999985999949
6.0 174.0	0: 5: 4	-Y-=0442*ZXSV	JJJFBBCDEEGGK	TXZYVUUXYYZYV	2453111222322	5457646556554	AAAB89A9AB9AA	9998A9E8595E99
5.1 174.2	0: 4:48	*Z-=46642*ZWY	IIHCBBCCCDGGI	QVYWTSTUVWXWS	1342111112321	45566756455 35	AAABBCAB9A98A	AA9999995B999
4.2 174.4	0: 4:32	*Z+=2B99873*Z=	HEDBABPPBBCDH	CSVTRRSSSSTTQ	1121111111111	4555555646544	91AAAAAAAAA99	A99A9999A8974
3.3 174.6	0: 4:16	4339CDC3B5511	GCBAAABA97ACG	NPRPCPPPCPPPO	1111111100000	5546655666443	AA9BBAAAAB9A9	99A9998B8E9AA
2.5 174.8	0: 4: 0	566PEEEDD9642	GCA99AAA97AAE	N'OPNAANCOOPNN	1111001C01100	4655555655345	8BAAAAAB9ABAA	AA9A99A9799A9
1.6 175.1	0: 3:44	366BEGHEB7673	HCA999AA9AAAE	UNPOMMMNCCPMN	1110000C01100	4454564566654	A9A9AB9AABAAA	AA9999B9959B4
0.7 175.3	0: 3:28	036AEGIND9794	IBA5999999AAE	OPPCNMLMNPOLM	2110100C00100	4555655554455	AAAAAABAA99AA	A99A995E9594A
-0.2 175.5	0: 3:12	+*+69BEHGECBA7	LEAAAAAA988AE	TSPPPNMNMMNLL	3111111100000	6454555554543	B9A9AAAAA989A	AAAA99999994A
-1.1 175.7	0: 2:56	-+559DD4CECA8	NEBCBABCAB9AE	USQSQPQRQLLKK	3212111210000	4566556654545	ABBBAAB8BA9AAA	AA99B98A99499
-2.0 176.0	0: 2:40	+Z+55AC736EDA9	OMEAAAACCABBAE	OUSQRPPUVRLLLK	0311101221000 0	24565564545542	1AAAAABAA9A998	09A999BA9995B9A
-2.9 176.2	0: 2:24	Y+46CA529ECBA	LEA99ABCA88AE	USPQQPUVQLLKJ	2100001110000	4556545554334	AAABA9AAA9989	AA9999A9759AA
-3.7 176.4	0: 2: 8	X=46AB967A8BA	LFA99ABBA99AE	VTQQPPRTRQMLJ	2210001110110	5446545555444	AA9BA9AAAA99A	9A9999A8B99AA
-4.6 176.6	0: 1:52	X-04693645684	LHCAAABBBAABE	VVTRRRRTTRPMK	2311001111110	5455564545653	A9AAABAAAAA99	999989995999A
-5.5 176.8	0: 1:36	X-=1576622168	LJECBBCDCCBCE	UWWUSSTUVTSOL	2421111212110	3555665655553	BAAABAAB9AAAA	AA9988989999A
-6.4 177.1	0: 1:20	XYZ+345422*25	KIGDCCCDCDCGG	UXXWUUVVVUTQN	2332212222211	4665556555453	9BAAAAAAAA998	998399899999A
-7.3 177.3	0: 1: 4	XWZ+213432++2	LHGDBDDDCCCFI	UWXWVWWVUUUTQ	2232222212222	5555554566453	AAAAAA9ABA9A9	99899899999A
-8.2 177.5	0: 0:48	YWY+212331=-+	LFEDDDEDCCCGK	UVXWWXXXWLLUUS	2222322211122	4556546456453	AAABA9BAAA999	99999999B99AA
-9.1 177.7	0: 0:32	YXZ=10101*+-=	KEEDEDEEEDCDHL	UUWXXXYYYWVUVT	2122222221233	3444454666453	9A9A9A9BBA9A9	AA9A989899999
-9.9 178.0	0: 0:16	-Y=+1*0*0***=	LEFEEDFFDDCGM	TUWXXYZZXVUUU	2132223322233	4444654546534	9999BAAA9AA8A	99A989A99B9AA
-10.8 178.2	0: 0: 0	-Y+01*011**0+	KEEFEEFECCCFM	TUVXXYZYWVTST	2133323312123	5444546554563	A999A9BAA8AB9	AA99899999999A
-11.7 178.4	23:59:44	=Y=00+13421*+	KECCDDFDBBBEL	SUUVXYXWTTSSS	2112222211122	3444556544443	9999AAB999999	AAA8B89999AA
-12.6 178.6	23:59:28	+Z+2213454I**	KEBABCCBAADJ	STTTUWVUTSSRR	2111111111112	3444544555642	9999999AAAA99	A9A99999999B9A
-13.5 178.9	23:59:12	*0-+3446664 30*	LEBABBBBAADIL	STTSTUTTSRRRQ	3111111111111	2445555554544	99997AAAA9A9A	BAA9B9E999AAA
-14.4 179.1	23:58:56	**-=2446675 30*	KECABBCBBBDH	STUSTTTTSRRRQ	2211111111111	4444445455444	A9999A9AA9A9	AAA999999AAA
-15.2 179.3	23:58:40	*==0456466C0+	KEDBBBCCCCCFI	RTVUUTUUTSTSR	2221111122221	2334434555443	8B89989AA9998	BAA9B999989AA
-16.1 179.6	23:58:24	+0+=+38A465CI*	JGDBBEGDEDEIJ	RTVVLLUUUTUTR	2221134232342	2324345544443	887989A9A8998	BBAAA9999994A
-17.0 179.8	23:58: 8	3+++9CC776230	JGECHKJDCDFIL	QTVVVKWUTRUFS	2231576222343	1133445455344	87B89AA9A9899	CCB9A99A3B99A
-17.9 180.0	23:57:52	6=00B8B99641	IFGELKCCAACGK	OTNW TSQPRRR	2242 2111233	0123444454352	67789999A9898	CBBA998999A9A
-18.8 180.3	23:57:36	ACG2359BUB853	HGGFECBA99ADJ	LSVWWVRCNKLPP	1244231100112	1*1123433453522	6778999A9898	CBBA998999A9A
-19.7 180.5	23:57:20	*F51624AEEC974	OFHGIDDBA999BH	OJRVWVVRNMMNNO	0144622100011	2010133343333 2	1666638898B887	OCCDBAA9999A9A
-20.5 180.7	23:57: 4	I94B349EGBB75	FHHMEDBA839AG	HOUXWVSNLMMMM	1446321100001	1*1202335323 22	668578998 7887	ECBAA9AB9599A
-21.4 181.0	23:56:48	KEBI8469JECB7	EFKQJBCAB89AF	GMTWXVTPLLLLL	1366211100000	**01124424332	5557773999788	FECBAA99A599A
-22.3 181.2	23:56:32	LIFBB465GFC96	FCLIDCD9B88AE	GJSWXKUSMLLLL	1238D32111000	==**0023322221	455557E887778	FECBB899A99AA
-23.2 181.5	23:56:16	LKGBC856FFC84	FBIVVHDB988AE	GHGVXXVINLLLM	226FF52100C00	====*14223112	3435579778677	FFDCBBA9A9ABA
-24.1 181.7	23:56: 0	KJILWI6BEFC85	GCEVYPEB989AE	HIMUWYVSNLLLM	224FHB2100000	Z++**13323211	3444578878767	GFDCCBA999948
-25.0 182.0	23:55:44	JIIPXU7AGFC75	GCAOXXFBA99AE	HJKSWYVRMLMML	222HFF3111100	Z===*+2322220	2335457877786	HGFCCBAAA9AA8
-25.8 182.2	23:55:28	JHILYVBAGBA76	HCBIYZFBA99AD	IKJPVYVRNPMML	2217H14111000	X-+++*222120*	1344457776766	IGEDCCBAAAA9C
-26.7 182.5	23:55:12	JFHI-WABCC748	ID9GY-GBA99AD	ILKPUZUCNNONK	3215IJ4111000	Y-=+=-*3121010	2234278777566	HGFDDBAA9A8B8
-27.6 182.7	23:54:56	IEHGKYFCD924A	ID4EV=GCA99AD	JLKOUYSRCPCNJ	3224FK5211003	WZ-+=-=1100110	1234337765666	INGCCCBAAABB
-28.5 183.0	23:54:40	IEHERZHCA636E	JECCB2YGFBA9AD	KLLPTVRRCOOMM	3223D15311000	XZ+**01*0*00*	1355556554565	IHEDCCBBAAABC
-29.3 183.3	23:54:24	HFGFVXKG955AI	JECESTIFBA9AD	KLMPTTRPSPOKG	3324DF6421000	YZ+**+01100**	2244546665555	IHFDCBBAABBBB
-30.2 183.5	23:54: 8	GGFGYXOG98*6M	JFCGIAKHO99AD	KLMRSRQSSPNJE	3335FC8620001	YZ=+==*0*0+*=	2244345554455	JGFDCCB9BBB3C
-31.1 183.8	23:53:52	GFEJY=SF89BLS	IECKUUQGB78GD	KMNRSRRSRQLGC	333BFFB511011	XZ-+**********	1234554554344	JHFDDCBBBBCCC
-32.0 184.1	23:53:36	IGFPY+GOBDH3*	KFEOUWNEA98AD	KLPSSSRPNIDA	434AFHA311011	Y-==+++++*==-	1343545433343	IHFECCCCCCCDD
-32.9 184.3	23:53:20	MJHSX-LGFGNVY	NNIQTIJEA879C	LMPSSRRPNKFB9	646CEF7310011	XZ=+**0***+-*Z	1244455434242	JGFDCCBBBCCCD
-33.7 184.6	23:53: 4	OKMX=TKJIMSXZ	QKNUVOGOA778C	MNQSSRQQLHOA8	769EGB5310111	WZ=+++=+++=-Y	0*2344434423 21	IHEDDCCCCBBDF
-34.6 184.9	23:52:48	PLRZZRMKLRVYZ	SNRVUMGD98778	MORSSOPNGJFC98	88BEF45311101	W--=+=+=+=--X	1023344333221	JGEDDD1CCBCCE
-35.5 185.2	23:52:32	OPUWPXMMRVXZZ	SSTSMIGBA866B	MCRRRCDLHDA88	8ACD975222101	X=*+=-=+=-ZYYW	1434333221000	IFEDDC1CCCDEF
-35.5 185.5	23:52:16	RVVSIKMOVWZ=+	UZUPHGDA86568	NSRROPMJFC987	9FE8654231001	XY+++=+--ZZYYW	1143332211010	IGEDDCCCDDEEG

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STATISTICS FOR READOUT ORBIT 1383 REFERENCE NO. 7531104 REDUCED 1/18/76 9H RUN 1 TYPE 3

PARAMETER			PAGE 1	PAGE 2	PAGE 3	PAGE 4	PAGE 5	PAGE 6	PAGE 7	PAGE 8	ORBIT	LIMITS	(MAX,MIN)
CH 1	TA	MAX(DEG)	253.6	286.9	285.1	251.7	270.4	302.4	299.2	251.4	302.4		0
		MIN(DEG)	140.0	140.6	141.4	137.5	157.2	176.3	139.3	151.4	137.5		0
	CAL	MAX(CTS)	827	826	826	827	828	828	829	827	828		0
		MIN(CTS)	825	825	824	825	826	826	826	825	824		0
		RMS(DEG)	0.19	0.23	0.16	0.19	0.21	0.20	0.22	0.24	0.20		0
	SKY	MAX(CTS)	265	265	264	263	265	265	265	266	266		0
		MIN(CTS)	264	264	262	261	263	264	264	264	261		0
		RMS(DEG)	0.23	0.23	0.20	0.21	0.21	0.18	0.21	0.18	0.21		0
CH 2	TA	MAX(DEG)	251.4	285.1	283.1	251.1	270.9	304.6	301.2	248.2	304.6		0
		MIN(DEG)	145.2	145.4	149.6	144.5	148.6	152.5	145.5	156.2	144.5		0
	CAL	MAX(CTS)	823	823	822	824	825	825	824	823	825		0
		MIN(CTS)	822	821	820	821	823	823	822	822	820		0
		RMS(DEG)	0.21	0.18	0.22	0.21	0.21	0.22	0.23	0.21	0.21		0
	SKY	MAX(CTS)	209	208	207	206	208	208	209	209	209		0
		MIN(CTS)	207	207	204	204	206	207	207	207	204		0
		RMS(DEG)	0.17	0.20	0.21	0.20	0.19	0.19	0.19	0.22	0.20		0
CH 3	TA	MAX(DEG)	247.2	273.5	273.7	258.9	262.6	281.3	275.8	242.3	281.3		0
		MIN(DEG)	210.1	242.5	240.0	218.7	230.2	256.3	215.4	214.1	210.1		0
	CAL	MAX(CTS)	833	831	833	833	833	834	833	833	834		0
		MIN(CTS)	825	827	827	827	828	827	825	826	825		0
		RMS(DEG)	0.65	0.43	0.57	0.60	0.52	0.64	0.68	0.64	0.59		0
	SKY	MAX(CTS)	193	194	193	193	194	194	192	193	194		0
		MIN(CTS)	188	188	188	187	186	187	187	187	186		0
		RMS(DEG)	0.52	0.58	0.47	0.58	0.61	0.59	0.58	0.55	0.56		0
CH 4	TA	MAX(DEG)	242.1	259.0	258.9	248.9	255.1	259.8	256.1	232.4	259.8		0
		MIN(DEG)	216.1	232.7	233.1	221.4	222.5	241.6	217.3	215.8	215.8		0
	CAL	MAX(CTS)	833	832	832	833	833	833	833	832	833		0
		MIN(CTS)	828	829	829	830	829	829	829	829	828		0
		RMS(DEG)	0.57	0.47	0.45	0.46	0.51	0.54	0.49	0.45	0.50		0
	SKY	MAX(CTS)	341	341	342	341	341	341	341	340	342		445
		MIN(CTS)	337	335	335	336	337	337	337	338	335		0
		RMS(DEG)	0.50	0.56	0.54	0.53	0.44	0.44	0.52	0.37	0.50		0
CH 5	TA	MAX(DEG)	224.4	223.9	227.4	227.9	222.8	219.9	224.5	218.0	227.9		0
		MIN(DEG)	205.6	208.4	209.5	210.4	210.4	208.0	206.6	205.7	205.6		0
	CAL	MAX(CTS)	820	821	820	821	821	821	820	819	821		0
		MIN(CTS)	816	817	817	818	817	817	816	817	816		0
		RMS(DEG)	0.43	0.39	0.35	0.39	0.47	0.36	0.37	0.29	0.39		0
	SKY	MAX(CTS)	229	229	227	227	228	229	228	228	229		0
		MIN(CTS)	225	225	225	224	225	225	225	225	224		0
		RMS(DEG)	0.30	0.35	0.29	0.32	0.34	0.32	0.38	0.36	0.33		0
PITCH		MAX(DEG)	0.8	0.8	0.9	0.8	0.9	0.8	0.8	0.8	0.9		0
		MIN(DEG)	0.8	0.7	0.7	0.8	0.7	0.6	0.7	0.8	0.6		0
ROLL		MAX(DEG)	0.3	0.5	0.5	0.5	0.5	0.2	0.1	0.2	0.5		0
		MIN(DEG)	0.1	0.3	0.3	0.3	0.0	-0.1	-0.1	0.0	-0.1		0
CH1 CAL T(DEG)			274.2	274.4	274.5	274.4	274.3	274.2	274.1	274.3		0,	0
CH2 CAL T(DEG)			273.4	273.6	273.7	273.7	273.6	273.4	273.3	273.5		0,	0
3-5 CAL T(DEG)			274.4	274.6	275.0	275.2	275.4	275.0	274.5	274.6		0,	0
1-2 INST T(DEG)			293.8	294.4	294.9	294.7	293.9	293.7	293.7	293.9		0,	0
3-5 INST T(DEG)			294.7	295.0	295.2	295.2	295.1	295.0	294.9	294.8		0,	0
CH1 MXR+ (CTS)			262	261	261	262	262	262	262	262		0,	0
MXR- (CTS)			216	216	216	216	216	217	216	216		0,	0
CH2 MXR+ (CTS)			340	340	339	340	340	340	340	340		0,	0
MXR- (CTS)			318	317	317	319	319	318	318	318		0,	0
CH3 MXR+ (CTS)			279	278	277	277	278	278	278	278		0,	0
MXR- (CTS)			261	260	259	259	260	260	261	261		0,	0
CH4 MXR+ (CTS)			90	90	90	90	90	90	90	90		0,	0
MXR- (CTS)			97	97	97	97	97	97	97	96		0,	0
CH5 MXR+ (CTS)			212	212	211	211	211	211	212	212		0,	0
MXR- (CTS)			166	166	165	165	165	165	166	166		0,	0
BAD SCANS,SYNC,DATA			0, 0, 0	0, 1, 0	0, 0, 0	0, 0, 0	0, 0, 0	0, 0, 0	0, 0, 0	0, 1, 0			

Table 1. SCAMS SOTA TAPE

	Parameter	Elements	Type	Units	Multiplier
	Day	1	I*2		1
	Minutes	1	I*2		1
	Seconds	1	I*2		1
	Altitude	1	I*2	km	1
	Latitude	1	R*4	^{o}N	1
	Longitude	1	R*4	^{o}E	1
	Data Missing Flag	1	L*1		
	Ascending Flag	1	L*1		
	Lost Frames	1	I*2		1
	Pitch	4	I*2	counts	1
	Roll	4	I*2	counts	1
	Digital A	160	I*2	counts	1
	Playback Orbit	1	I*2		
	Spare	1	I*2		
	Reference Orbit	1	I*4		
	Instrument Temps	12	R*4	K	1
1.	T_A ch 1	13	I*2	K	32
2.	T_A ch 2	13	I*2	K	32
3.	T_A ch 3	13	I*2	K	32
4.	T_A ch 4	13	I*2	K	32
5.	T_A ch 5	13	I*2	K	32
6.	Surface Elevation	13	I*2	km	32
7.	Latitude	13	I*2	^{o}N	32
8.	Longitude	13	I*2	^{o}E	32
9.	T_B ch 1	13	I*2	K	32
10.	T_B ch 2	13	I*2	K	32
11.	T_B ch 3	13	I*2	K	32
12.	T_B ch 4	13	I*2	K	32
13.	T_B ch 5	13	I*2	K	32
14.	Surface Reflectivity	13	I*2	%	32
15.	H_2O Vapor	13	I*2	precip.mm	32
16.	H_2O Liquid	13	I*2	precip.mm	32
17.	1000-500 mb Layer	13	I*2	K	32
18.	500-250 mb Layer	13	I*2	K	32
19.	250-100 mb Layer	13	I*2	K	32
20.	1000 mb Temp	13	I*2	K	32
21.	850 mb Temp	13	I*2	K	32
22.	700 mb Temp	13	I*2	K	32
23.	500 mb Temp	13	I*2	K	32
24.	400 mb Temp	13	I*2	K	32
25.	300 mb Temp	13	I*2	K	32
26.	250 mb Temp	13	I*2	K	32
27.	200 mb Temp	13	I*2	K	32
28.	150 mb Temp	13	I*2	K	32
29.	100 mb Temp	13	I*2	K	32
30.	70 mb Temp	13	I*2	K	32
31.	50 mb Temp	13	I*2	K	32
32.	30 mb Temp	13	I*2	K	32
33.	10 mb Temp	13	I*2	K	32
34.	Spares	13	I*2		
35.	Spares	13	I*2		
36.	Spares	13	I*2		
37.	Spares	13	I*2		
38.	Flags	13	I*2		

Flags - Halfword For Each Scan Position

MSB	15	
	14	
	13	
	12	
	11	
	10	
	9	0 = OK, 1 = no H_2O liquid
	8	0 = OK, 1 = no H_2O vapor
	7	
	6	
	5	0 = OK, 1 = ch.5 Data missing
	4	0 = OK, 1 = ch.4 Data missing
	3	0 = OK, 1 = ch.3 Data missing
	2	0 = OK, 1 = ch.2 Data missing
	1	0 = OK, 1 = ch.1 Data missing
LSB	0	0 = Ocean, 1 = Other

Total - 1400 bytes/frame
LRECL - 1404
BLKSIZE - 4216
RECFM - VBS
Density - 1600 bpi
1 day/file
4 files/tape

Table 2. SCAMS SOTA' Tape

Parameter	#Elements	Type	Units	Multiplier	
Day	1	I*2		1	
Minutes	1	I*2		1	
Seconds	1	I*2		1	
Altitude	1	I*2	km	1	
Latitude	1	R*4	^{o}N	1	
Longitude	1	R*4	^{o}E	1	
Data Missing Flag	1	L*1			
Ascending Flag	1	L*1			
Lost Frames	1	I*2		1	
Pitch	4	I*2	Counts	1	
Roll	4	I*2	Counts	1	
Play Back Orbit	1	I*2			
Spare	1	I*2			
Reference Orbit	1	I*4			
1.-33. (Same as SOTA slots 6.-38.)				32	SCAMS
34. Spare	13	I*2			
35. H_2O Vapor	13	I*2	Precip.mm	32	
36. Spare	13	I*2			
37.-53. (Same as SOTA slots 17.-33.)			K	32	NMC
54. Surface Pressure	13	I*2	mb	1	Analysis
55. Sea Level Pressure	13	I*2	mb	1	
56. Tropo Pause Pressure	13	I*2	mb	1	
57. Tropo Pause Temperature	13	I*2	K	1	
58. Spare	13	I*2			
59.-83. (Same as SOTA slots 34.-58.)		I*2			NMC Forecast

Total - 2202 bytes/Frame

LRECL - 2208

BLKSIZE - 6628

RECFM - VBS

Density - 1600 bpi

1 day/file

2-4 days per tape

SCAMS SOTA CATALOG by day

First Day		First Orbit (Playback)	SOTA No.	Hours of Data in File: 1	2	3	4	Notes
75166	June 15	47	17	6.6	10.4	6.6	20.1	1, 2
75176	June 25	179	19	6.7	15.9	19.9	--	1, 3
75179	June 28	213	20	8.5	20.5	17.4	18.1	1
75183	July 2	264	21	21.2	19.4	21.7	20.4	1
75187	July 6	318	18	21.1	22.9	15.8	15.5	1
75191	July 10	371	9	19.4	17.1	17.0	20.4	
75195	July 14	425	10	21.6	16.2	20.7	14.9	
75199	July 18	481	14	18.7	8.3	16.2	21.3	
75203	July 22	532	15	21.7	16.8	21.2	20.3	
75207	July 26	586	16	20.1	22.5	20.4	23.3	
75211	July 30	640	3	20.7	21.2	13.4	23.0	4
75215	Aug. 3	696	2	20.4	22.3	20.3	23.5	4
75219	Aug. 7	746	1	21.9	20.6	19.1	19.4	4, 5
75223	Aug. 11	801	4	21.8	22.9	21.8	23.1	
75227	Aug. 15	857	5	19.3	11.6	20.5	19.9	
75231	Aug. 19	908	22	22.2	22.7	22.4	22.7	
75235	Aug. 23	961	6	21.7	21.5	20.5	23.2	
75239	Aug. 27	1018	7	20.0	21.8	17.7	23.5	
75243	Aug. 31	1069	8	16.5	22.8	23.4	21.3	
75247	Sept. 4	1123	11	20.7	23.1	21.9	21.9	
75251	Sept. 8	1176	12	4.7	19.5	23.1	22.3	
75255	Sept. 12	1231	13	19.0	16.8	19.5	23.0	
75259	Sept. 16	1283	23	23.2	22.5	23.1	21.4	
75263	Sept. 20	1337	24	22.2	23.3	22.2	22.7	
75267	Sept. 24	1391	25	20.6	22.7	19.7	21.9	
75271	Sept. 28	1444	26	22.9	22.1	23.1	23.5	
75275	Oct. 2	1498	27	22.5	23.4	21.0	23.0	
75279	Oct. 6	1551	28	16.8	21.3	22.2	20.6	
75283	Oct. 10	1605	29	20.0	21.3	21.9	21.9	6
75287	Oct. 14	1659	30	21.9	21.2	22.3	21.7	
75291	Oct. 18	1713	37	22.1	22.5	21.3	19.8	
75295	Oct. 22	1766	38	23.2	21.4	19.8	23.1	
75299	Oct. 26	1820	39	23.3	22.9	23.5	20.5	
75303	Oct. 30	1873	40	22.6	19.7	6.8	23.1	
75307	Nov. 3	1927	31	23.1	22.8	21.3	18.2	
75311	Nov. 7	1983	32	20.9	23.1	20.9	20.4	
75315	Nov. 11	2037	33	20.0	20.8	21.2	18.8	
75319	Nov. 15	2089	34	22.4	22.6	21.0	22.6	
75323	Nov. 19	2141	35	18.3	21.6	18.9	8.7	
75327	Nov. 23	2196	36	14.8	19.9	22.5	15.9	
75331	Nov. 27	2248	41	16.5	21.6	22.5	22.3	
75335	Dec. 1	2304	42	22.7	20.6	23.2	21.3	
75339	Dec. 5	2358	43	20.8	23.0	21.6	21.5	
75343	Dec. 9	2409	44	15.8	22.6	23.0	18.1	12
75347	Dec. 13	2463	45	15.4	22.7	22.1	22.9	
75351	Dec. 17	2519	48	19.8	4.6	17.2	18.4	
75355	Dec. 21	2570	49	23.1	23.3	23.1	19.0	

SCAMS SOTA CATALOG by day

First Day		First Orbit (Playback)	SOTA No.	Hours of Data in File: 1	2	3	4	Notes
75359	Dec. 25	2624	46	20.0	19.8	22.1	22.9	
75363	Dec. 29	2677	47	22.0	22.4	22.9	21.8	
76002	Jan. 2	2733	50	20.4	22.3	20.7	22.2	
76006	Jan. 6	2785	51	21.3	22.0	21.9	20.7	
76010	Jan. 10	2838	52	23.2	21.1	21.9	22.2	
76014	Jan. 14	2892	54	23.0	17.2	18.8	17.2	7
76018	Jan. 18	2948	55	16.0	22.5	23.1	22.7	
76022	Jan. 22	2999	53	23.0	19.7	22.4	23.4	
76026	Jan. 26	3052	56	22.8	23.0	23.4	20.7	
76030	Jan. 30	3108	57	19.3	23.2	22.5	23.6	
76034	Feb. 3	3160	58	23.3	12.6	21.0	16.2	
76038	Feb. 7	3213	59	20.8	19.8	22.9	23.5	8
76042	Feb. 11	3267	60	22.3	22.8	20.9	21.1	
76046	Feb. 15	3320	61	21.9	15.2	22.2	23.6	
76050	Feb. 19	3374	62	21.5	23.5	23.3	21.1	
76054	Feb. 23	3428	63	20.1	23.2	17.3	15.3	
76058	Feb. 27	3484	64	21.5	21.7	23.0	21.8	
76062	Mar. 2	3535	65	22.3	23.1	12.4	16.4	
76066	Mar. 6	3588	66	23.3	21.4	23.2	22.5	
76070	Mar. 10	3642	67	22.8	22.4	20.4	23.2	
76074	Mar. 14	3695	68	23.3	23.3	22.2	22.1	
76078	Mar. 18	3749	69	19.7	19.6	22.7	21.6	
76082	Mar. 22	3803	70	22.6	21.3	21.6	22.9	
76086	Mar. 26	3858	71	22.6	19.6	19.3	20.6	9
76090	Mar. 30	3910	72	20.2	11.5	20.3	22.6	9
76094	Apr. 3	3963	73	22.3	21.2	12.8	18.1	9
76098	Apr. 7	4017	74	14.7	20.2	19.8	23.1	9, 10
76102	Apr. 11	4070	75	23.8	22.4	23.6	22.5	9
76106	Apr. 15	4124	76	22.7	20.9	21.1	15.7	9
76110	Apr. 19	4179	77	19.6	21.5	23.5	23.1	9
76114	Apr. 23	4234	78	21.0	22.0	21.3	20.2	9
76118	Apr. 27	4285	79	22.8	19.9	21.1	21.6	9
76122	May 1	4339	80	22.2	22.2	21.3	22.2	9
76126	May 5	4392	81	22.1	25.7	19.3	22.9	9, 11
76130	May 9	4445	82	19.4	21.5	21.3	21.1	9
76134	May 13	4499	83	21.6	19.1	21.9	19.1	9
76138	May 17	4555	84	19.0	20.7	22.5	21.7	9
76142	May 21	4609	85	18.9	20.6	14.2	14.0	9
76146	May 25	4660	86	20.7	16.5	14.7	13.7	8, 9
76150	May 29	4713	87	13.5	14.0	12.5	--	9, 13

SOTA 80

5/1/76 TO 5/4/76 D-28964

```
$JOB  20:18:00
$ASS IN MS3
$NOP ********** DUMP OF N1OUT-17 **********
$EXEC DPHEX BS
 INPUT TAPE ON MS3
 DATA INPUT    1 1 STOP
  FILE  1      RECORD   1      LENGTH  4216 BYTES
   (    0)  10780000  057C0000  007A008D  00390465  C23C1D1C  429DFF38  00010000  01350135  01350135  01A501A5
   (   40)  01A501A5  03FF0215  02050114  00020363  0366036B  0366035D  0104021C  02140104  0002024B  033202EF
   (   80)  02CC02BD  00D70210  01D00059  0005023D  033902F3  02D602BF  01550223  01BD0067  0007023A  033C02F4
   (  120)  02DC02BF  013F01B8  01D500D1  000B0240  033D02F5  02E002BF  00A401DB  01B80347  000D0241  033D02F4
   (  160)  02E302C2  028F00F8  00F9028F  000E0240  033B02F4  02E402C1  00B602F8  02F900B7  00100237  033802F4
   (  200)  02E402C1  02C30215  02050114  0015022F  033102F6  02E402C2  0104021C  02140104  00160228  032702F1
   (  240)  02E302C1  00D70210  01D0005A  00180223  031602F4  02E202C2  01550223  01BD0067  001C0223  030502F5
   (  280)  02DF02C2  013F01B8  01D500D1  001E0230  02E902F6  02DC02BE  00A401DB  01B80347  0021025C  02E502F8
   (  320)  02D702BC  028F00F8  00F9028F  0031010A  017000BC  00B100DF  00B602F8  02F800B7  0050033D  02170340
   (  360)  03330334  10F3FFFF  0074272A  43113D97  43113F4F  43114F55  43113D88  43113DB3  43126848  431150CA
   (  400)  43126EEF  43126089  43127691  431259AD  431272F6  13CB12F2  12C31320  13301320  12941218  11AC115E
   (  440)  115E1228  14D321FD  225F2289  22982298  227B2251  21EF2163  20751F87  1DFE1DC6  1E111E47  1E551E62
   (  480)  1E551E55  1E551E70  1E2C1E55  1E621E70  1E8B1CD9  1D611DB2  1DE81E11  1E1E1E1E  1E1E1E11  1E031DDA
   (  520)  1DB21D6E  1B8B1BA9  1BA91BA9  1BD41BC6  1BC61BD4  1BC61BD4  1BD41B9A  1B7D0001  00010001  00010001
   (  560)  00000000  00000000  00000000  00000000  F83EF847  F853F85F  F86CF87A  F888F898  F8A9F8BE  F8D7F8F8
   (  600)  F9281124  11D61259  12C2131C  136C13B7  1400144A  149714ED  154F15CA  13DA1302  12DC1340  134F1343
   (  640)  12B0123C  11D01185  11861242  14FB2255  22AF22D5  22E022DF  22C22297  223421A7  20B71FC9  1E381E07
   (  680)  1E581E81  1E881E91  1E801E7E  1E7F1E9D  1E5A1E88  1E991EBA  1EEF1D13  1D931DE2  1E161E3C  1E4A1E4B
   (  720)  1E4E1E43  1E3B1E17  1DFB1DCD  1BB71BCE  1BC91BC7  1BF21BE3  1BE41BF6  1BEA1BFC  1BFF1BDA  1BC906D0
   (  760)  07310743  0715070F  07140757  078B07BB  07DD07DD  0788064E  00000000  00000000  00000000  00000000
   (  800)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  201B204F
   (  840)  207A209A  209C20A4  20A220AC  209B20AC  20A220B7  20E41C34  1C651C85  1C9C1CA7  1CA81CA6  1CB71CA1
   (  880)  1CBA1CB9  1CD81D1C  1BD31BD8  1BC21BAD  1BCF1BB9  1BB91BC8  1BCA1BDC  1BEA1BD0  1BCC21CC  21F5221E
   (  920)  22422240  22482247  22592230  22462239  223F2272  21062138  21662188  21892192  2190219B  21852195
   (  960)  21892194  21B92032  20662090  20AE20B2  20B920B6  20BF20B3  20C120B8  20CF20F9  1E261E5D  1E861EA2
   ( 1000)  1EA91EAF  1EAC1EB6  1EAA1EBC  1EB71ED7  1F101CBC  1CF21D18  1D341D3A  1D401D3D  1D4A1D37  1D4E1D4A
   ( 1040)  1D6D1DAF  1B451B73  1B8D1BA2  1BAF1BAE  1BAC1BBF  1BA61BC1  1BC21BE0  1C291AED  1B101B1C  1B251B3C
   ( 1080)  1B311B30  1B491B2D  1B4E1B55  1B671BAE  1B881B92  1B831B78  1B951B82  1B821B99  1B861BA2  1BB01BA7
   ( 1120)  1BCB1C1B  1C191BFD  1BE11C03  1BED1BED  1BF51C05  1C0F1C1E  1BFD1BE3  1C011C02  1BE01BBD  1BED1BCE
   ( 1160)  1BCE1BDB  1BEC1BFB  1C0F1BD8  1BAB1BBB  1BCD1BB1  1B941BC9  1BA81BA8  1BBC1BC5  1BDF1BF2  1BBF1BA0
   ( 1200)  1B6D1B87  1B7A1B68  1B941B7B  1B7B1B8C  1B911BAA  1BB91B9B  1B941B31  1B5A1B5B  1B551B80  1B6B1B69
   ( 1240)  1B7F1B7C  1B9A1BA6  1B981BAC  1B4F1B9F  1BB21BB5  1BF11BD8  1BD41BF1  1BF31C1F  1C2C1C28  1C55FFFF
   ( 1280)  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF
   ( 1320)  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF
   ( 1360)  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFF0000  00000000  00000000  00000000  00000000
   ( 1400)  00000000  00000000  057C0000  007A008D  00290465  C23CF274  429EB218  00010000  01350135  01350139
   ( 1440)  01A901A9  01A501A5  03FF0215  02050114  00020363  0366036A  0366035D  0104021C  02140105  00020254
   ( 1480)  0333C2EB  02CD02BE  00D70210  01D0005A  00050240  033A02F1  02D502C0  01550223  01BD0067  00070238
   ( 1520)  033D02F4  02DB02C0  013F01B8  01D500D1  000B023B  033E02F1  02DE02C1  00A401DB  01B80347  000D0239
   ( 1560)  033C02F3  02E002C2  028F00F8  00F8028F  000E0236  033B02F2  02E202C0  00B602F8  02F900B7  00100231
   ( 1600)  033802F3  02E302C1  02C30215  02050114  0015022E  033202F1  02E202C1  0104021C  02150104  0016022A
   ( 1640)  032702F4  02E402C2  00D70210  01D00059  00180225  031602F6  02E102BF  01550223  01BD0067  001C0227
   ( 1680)  030502F6  02DF02C1  013F01B8  01D500D1  001E0232  02E902F6  02DD02C1  00A501DB  01B80347  00210262
   ( 1720)  02E502FA  02D702BD  028F00F8  00F9028F  00310108  017200BD  00B200E0  00B602F8  02F900B7  0050033D
   ( 1760)  0219033F  03320335  10F38000  0074272A  43113D97  43113F4F  43114F55  43113D88  43113DB3  43126848
   ( 1800)  431150CA  43126EEF  43126089  43127691  431259AD  431272F6  14571320  12A412D3  12B41285  12371209
   ( 1840)  11CB117D  119C1247  1530220B  226D2298  22A62289  227B2251  21FD2163  20751F87  1DFE1DC6  1DDB1E2C
   ( 1880)  1E551E2C  1E471E3A  1E471E2C  1E551E70  1E701E70  1EA61CE7  1D531DA4  1DCD1DE8  1E031E11  1E031E1E
   ( 1920)  1DF61DDA  1DBF1D6E  1B9A1BB7  1BB71BC6  1BD41BB7  1BC61BC6  1BD41BA9  1BC61BC6  1B8B0001  00010001
   ( 1960)  00010001  00010000  00000000  00000000  00000000  F822F82B  F837F844  F851F85F  F86DF87D  F88FF8A4
   ( 2000)  F8BEF8E0  F9111128  11DF1266  12D2132E  138013CD  14181463  14B21508  156C15E8  146A132D  12B212E6
   ( 2040)  12C31299  124A1228  11F511A4  11DB1262  155F2263  22BE22E4  22EF22D0  22C22297  224321A5  20B71FC0
   ( 2080)  1E381E04  1E211E65  1E881E5A  1E711E62  1E701E57  1E821EA4  1EA11EBA  1F091D21  1D861DD5  1DFA1E14
   ( 2120)  1E2E1E3F  1E321E57  1E2D1E27  1E0A1DD1  1BC61BDC  1BD91BE5  1BF31BD4  1BE51BE7  1BFF1BCF  1C0A1C07
   ( 2160)  1BDE0690  071E0755  073E074E  07610784  079407AB  07CF07B6  077A0621  00000000  00000000  00000000
   ( 2200)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
```

DATA INPUT 1 0 1 125

FILE 1 RECORD 1660 LENGTH 4216 BYTES

5/4/76

(0)	10780000	057C0000	007D0539	000D0461	422EE964	42BE7A28	00010000	01350135	01350131	01D501D9
(40)	01D501D9	03FF0210	02030115	00020363	0366036A	0367035D	01050217	02110105	00020263	033402F7
(80)	02D302BD	00D8020B	01CE005A	0005024A	033B02FC	02DB02C2	0156021D	01BB0068	00070252	033E02FB
(120)	02DF02C4	014001B2	01D300D1	000B0261	033F02FE	02E602C7	00A501D4	01B70347	000D0260	033E0301
(160)	02E802C9	028F00F8	00F7028F	000E0253	033C02FB	02EA02CD	00B602F8	02F600B7	00100254	033902FF
(200)	02EC02CE	02C30210	02030115	00150253	033302FD	02ED02CD	01050217	02110105	0016024A	032802FA
(240)	02EA02CC	00D8020B	01CD005A	00180238	031702FB	02E902C9	0156021D	01BB0067	001C022F	030602FF
(280)	02E602C1	014001B2	01D400D2	001E024A	02EB0303	02E402BC	00A501D4	01B60347	002102A6	02E70302
(320)	02DB02B8	028F00F8	00F7028F	0031010A	01770089	00B200DF	00B602F8	02F800B7	0050033E	021F0342
(360)	03350333	1128FFFF	0074286B	431135CF	43113CEB	431145FB	43113B1D	431135E7	4312678F	43114777
(400)	43126E45	43125468	431275D3	43124C03	43127250	153513B2	142E1516	15D6143D	144D143D	13B2129C
(440)	121113B2	19412219	227B22A6	22B422A6	2289225F	220B2171	20831F95	1E1A1DE2	1E781EBC	1EAE1ED7
(480)	1F001EAE	1EE51ECA	1EA11EAE	1EE51F1B	1F0D1D2F	1D9C1DD2	1E301E4B	1E661E81	1E8F1E66	1E591E30
(520)	1E151D9C	1B7F1BC8	1BE51C11	1C2E1C68	1C771C68	1C5A1C2E	1BB91B71	1B360000	00000000	00000000
(560)	00000000	00000000	00000000	00000000	056F0593	05AC05BF	05CF05DC	05E805F3	05FE0608	0613061D
(600)	06271618	168216D5	171A1758	179217CA	18031840	188218CF	192E19AE	156813DA	145E154C	15361465
(640)	14721470	13E512C7	123213CC	19862276	22CC22F4	22FE22F0	22D122AD	225221B9	20C61FD9	1E561E28
(680)	1EC31EF6	1EE31F07	1F301ED8	1F151EF7	1ED21EE2	1F1E1F68	1F741D6A	1DCD1E00	1E5E1E76	1E911EAF
(720)	1EBF1E99	1E901E6E	1E611DFB	1BA81BED	1C061C30	1C4C1C88	1C961C8D	1C811C58	1BE31BB0	1B81061D
(760)	06D00695	062A0634	0692068C	068D06CC	074C078F	06D60443	00000000	00000000	00000000	00000000
(800)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	20A220C0
(840)	20B020EF	20F720DC	21062117	20F1210A	21392180	21881CB7	1CCA1CC2	1D081D1A	1D0C1D39	1D421D1B
(880)	1D281D3E	1D831D93	1BB31BD9	1BE91BF6	1C031C46	1C421C37	1C3D1C18	1BAA1B80	1B70224B	2272726D
(920)	22AA22C4	228C22C1	22C12296	22A622D7	23132322	218B21B3	21A321E0	21EB21C6	21F22201	21D921F1
(960)	22252267	226C20B7	20D020C0	20FD2103	20EB2112	21262101	211B214B	21922198	1EB41EC8	1EB91EFD
* (1000)	1F051EF3	1F1E1F31	1F0A1F22	1F4C1F99	1FA51D4B	1D5C1D4F	1D971DA4	1D901DBE	1DCD1DA3	1DB91DDF
(1040)	1E2E1E3D	1BC01BD4	1BCF1C15	1C2D1C20	1C4E1C52	1C2B1C33	1C3D1C7E	1C911B47	1B601B65	1BA61BC5
* (1080)	1BCE1BF7	1BF01BD0	1BC51BA3	1BCA1BDB	1B8F1BAE	1B8F1BE0	1BFD1C25	1C361C24	1C1A1BF7	1B9E1B8F
(1120)	1B921BDE	1C011C11	1C0E1C10	1C611C4F	1C481C5A	1C321BBB	1B811B69	1BB21BF2	1C081C05	1C0B1C73
(1160)	1C5D1C53	1C691C33	1B921B3F	1B181B8C	1BDD1BF2	1C051C12	1C7C1C73	1C691C75	1C3E1B94	1B4E1B27
(1200)	1B6A1BAA	1BB71BD6	1BE31C34	1C371C33	1C331C0D	1B911B6D	1B531B60	1B9E1BA6	1BDB1BEC	1C2E1C40
(1240)	1C431C34	1C191BB6	1BB21BA1	1BC81C1E	1C1F1C82	1C931CED	1D131D24	1D031CED	1C7B1C97	1C83FFFF
(1280)	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF
(1320)	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF
(1360)	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFF0000	00000000	00000000	00000000	00000000
(1400)	00000000	00000000	057C0000	007D0539	00390461	422E0C4C	42BEDE08	00010000	01350135	01350135
(1440)	01D501D5	01D901D9	03FF020F	02020115	00020363	0366036B	0366035E	01050217	02100106	00020268
(1480)	033402FD	02D402BF	00D8020A	01CD0059	0005024D	033B02FB	02DB02C1	0156021D	01BB0067	0007024F
(1520)	033E02FC	02E002C5	014001B2	01D300D2	000B0260	033F02FF	02E402C8	00A501D4	01B60347	000D0266
(1560)	033D0300	02EA02CC	028F00F8	00F7028F	000E0260	033C0301	02EB02CC	00B602F8	02F700B7	0010025E
(1600)	03390300	02EC02CD	02C30210	02020115	00150259	033302FE	02EB02CC	01050217	02110105	0016024B
(1640)	032802FA	02E902CA	00D8020B	01CE005A	0018023A	031702FD	02E702C7	0156021D	01BB0067	001C0232
(1680)	030602FE	02E702C1	014001B2	01D400D2	001E0253	02EB0307	02E202BD	00A501D4	01B70347	002102AE
(1720)	02E70303	02DC02B9	028F00F8	00F8028F	00310108	0179008C	00B000DF	00B602F8	02F700B7	0050033E
(1760)	021F0343	03350335	1128FFFF	0074286B	431135CF	43113CEB	431145FB	43113B1D	431135E7	4312678F
(1800)	43114777	43126E45	43125468	431275D3	43124C03	43127250	158213E0	13FF1506	15631506	14E7149A
(1840)	13C212BB	123F143D	19BC2219	227B22A6	22B42298	2289225F	220B2171	20831F95	1E1A1DE2	1ECA1EAE
(1880)	1EBC1EE5	1EF21F00	1EF21ED7	1EA11ECA	1ED71F51	1F1B1D3D	1D9C1DDF	1E151E66	1E741E81	1E741E59
(1920)	1E3E1E3E	1DFA1DA9	1B9C1BB9	1BF41C1F	1C5A1C5A	1C681C5A	1C3D1C11	1BB91B7F	1B450000	00000000
(1960)	00000000	00000000	00000000	00000000	00000000	05560579	059205A4	05B405C1	05CD05D7	05E205EC
(2000)	05F70601	060B162A	169316E5	17291766	179F17D7	180F184B	188C18D8	193519B2	15B8140A	142D153A
(2040)	15961536	151314D0	13F412E6	1261145C	1A052276	22CD22F4	230022E2	230322AD	22912189	20C81FD9
(2080)	1E571E28	1F161EE9	1EF01F17	1F221F50	1F231F26	1ED21EFF	1F101FA1	1F821D78	1DCE1E0E	1E421E92
(2120)	1EA21EAF	1EA61E8B	1E751E7C	1E451E09	1BC61BDE	1C151C3E	1C781C6A	1C871C6D	1C631C39	1BE41BBF
(2160)	189005F9	06BB06AB	06320608	06340644	066206C5	073E077A	0696040A	00000000	00000000	00000000
(2200)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(2240)	20F320BB	20BF20D4	21042119	210E2112	20EA2101	213F2192	21961CE8	1CC61CD3	1CF41D30	1D431D3D
(2280)	1D391D0E	1D1A1D44	1D831DA4	1BB51BCE	1BF31C09	1C2B1C10	1C301C17	1C221BFB	1BAA1B84	1B7A22AD
(2320)	226B227B	22A122C4	22E722CD	22D12292	22B022D0	2349232F	21EE21AB	21B221C9	21F3220C	21FC2201
(2360)	21D421EF	2226228A	227A2103	20CD20CE	20E02110	2123211A	211E20FB	21102152	219E21A7	1EF31EC5
(2400)	1EC91EDF	1F181F2B	1F241F25	1F001F13	1F551F99	1FB41D83	1D591D60	1D7C1DB6	1DCD1DC4	1DC41D98
(2440)	1DAB1DE7	1E2C1E4E	1BEA1BCF	1BE01C06	1C431C56	1C511C4B	1C1C1C25	1C431C7F	1CA11B60	1B581B77

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$JOB   7:54:32
$NOP ********** DUMP OF N1OUT-18 ******************
$ASS IN MS3
$EXEC DPHEX BS
 INPUT TAPE ON MS3
 DATA INPUT    1 1 STOP
  FILE  1      RECORD   1      LENGTH   4216 BYTES
   (    0)  10780000  057C0000  007E004F  00210467  C23F5CB4  42B04408  00010000  01350135  01350135  01A101A1
   (   40)  01A101A5  03FF0214  02040115  0C020363  0366036B  0366035E  0104021B  02120105  000202CB  033202EA
   (   80)  02CC02BD  00D7020F  01CE005A  000502DF  033902F4  02D202BD  01550222  01BC0067  000702E4  033C02FA
   (  120)  02D802BF  013F01B8  01D500D2  000B02B3  033E02F8  02DE02BF  00A501DB  01B70347  000D0248  033C02F1
   (  160)  02DF02BF  028F00F8  00F8028F  000E0244  033B02F3  02E002BE  00B602F8  02F700B7  00100254  033802F8
   (  200)  02E202BD  02C30214  02050115  0015025A  033302F8  02E102BB  0104021B  02130105  00160254  032902F9
   (  240)  02E102BA  00D7020F  01CE005A  00180252  03160 2F8  02DF02B8  01550222  01BD0067  001C0259  030702FA
   (  280)  02DD02B5  013F01B8  01D500D2  001E025B  02EA02F6  02D402B8  00A501DB  01B80347  0021026A  02E802EF
   (  320)  02CD02BB  028F00F8  00F8028F  0031010B  017400BC  00B200DE  00B602F8  02F800B7  00500330  02350340
   (  360)  03340335  1128FFFF  007428B9  43113C09  43114273  43114DC7  43113F18  43113C24  43126848  43114F3C
   (  400)  431270AD  43126089  43127A06  431259AD  43127672  1B8E1CC5  1D121A1A  139D135F  145714B4  14571438
   (  440)  14A514C4  15AD21FD  225F2289  22A62289  227B2251  220B217F  20751FA3  1E0C1DF0  1DD61E5D  1EAF1E93
   (  480)  1E351E50  1E931E93  1EA11E93  1EAF1E78  1E1A1CE3  1D341D85  1DD61DE4  1DF21E0D  1DFF1DFF  1DE41DC9
   (  520)  1D4F1CF0  1B8A1B8A  1BA71BA7  1BA71B99  1B8A1B6D  1B5F1B41  1B161B41  1B6D0001  00010001  00010001
   (  560)  00010001  00010000  00000000  00000000  F7D0F7D9  F7E6F7F3  F801F810  F820F831  F844F85B  F877F89B
   (  600)  F8CF131E  13E7147A  14F01553  15AC15FE  164D169D  16F0174A  17B11830  1BE21D1E  1D6D1A5A  139D136D
   (  640)  14751 4E5  1488146D  14E214EC  15D82255  22AF22D5  22EF22D0  22C22297  225121C4  20B61FE5  1E461E32
   (  680)  1E1B1E97  1EE41EC2  1E5D1E78  1EBF1EC1  1ED21EC8  1EE81EC4  1E7B1D1D  1D661DB4  1E041E0F  1E1C1E39
   (  720)  1E2E1E31  1E1B1E07  1D971D4D  1B871BB0  1BCA1BC7  1BC51BB7  1BA91B8E  1B831B67  1B3D1B80  1BB90333
   (  760)  02A50282  03E406EC  0702068B  06580682  068E065A  065505EB  00000000  00000000  00000000  00000000
   (  800)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  1FB51FE6
   (  840)  200B2044  206D207C  20B020B1  20CC20D1  20F42096  204F1C1F  1C281C42  1C721C71  1C7A1CA9  1CA31CB9
   (  880)  1CB81CD4  1C8F1C77  1BF11BD4  1BDB1BC2  1BB21B99  1B771B5F  1B511B42  1B221B83  1BD22169  21AA21CE
   (  920)  21D92215  222C226C  226F2287  2282229F  224B21F2  20872 0C9  20F12129  215C216E  21A621A9  21C321C6
   (  960)  21E8218A  21301FCA  1FF9201C  205B2084  20912 0C3  20C420DF  20E42108  20A92065  1DE01DFF  1E1F1E5F
   ( 1000)  1E751E81  1EB31EB1  1ECC1ED1  1EF61E98  1E671C8F  1CA51CC1  1CFC1D05  1D121D45  1D431D5C  1D5F1D83
   ( 1040)  1D291D01  1B471B47  1B5D1B85  1B781B80  1BAD1BA5  1BB91BB4  1BCC1B93  1B881B1C  1B041B14  1B221B02
   ( 1080)  1B021B1C  1B0C1B17  1B0B1B12  1B0B1B27  1BCF1BA4  1BA81B91  1B6E1B5F  1B561B3F  1B381B25  1B0F1B55
   ( 1120)  1B9E1C30  1C121C17  1BF81BF1  1BD21BA0  1B881B76  1B6A1B43  1BB41C0C  1BFD1BED  1BFB1BD5  1BD11BA9
   ( 1160)  1B681B47  1B301B1D  1AE61B80  1BE51BB0  1BA81BBF  1BA41B9B  1B731B3D  1B171B05  1AEE1ABA  1B4D1BAF
   ( 1200)  1B611B5A  1B721B6C  1B631B46  1B271B08  1B001AEF  1AD01B2E  1B751B1C  1B1A1B38  1B471B41  1B2B1B20
   ( 1240)  1B041B06  1AF81AE8  1B1E1B52  1B0A1B14  1B4B1B7C  1B891B6D  1B6E1B48  1B571B4B  1B471B64  1B97FFFF
   ( 1280)  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF
   ( 1320)  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF
   ( 1360)  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFFFFFF  FFFF0001  00010001  00010000  00000000  00000000
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   ( 1440)  01A101A5  01A101A1  03FF0214  02040115  00020363  0366036B  0366035E  0104021B  02130105  000202D7
   ( 1480)  033302E9  02CA02BC  00D7020F  01CF005A  000502EC  033A02F2  02D202BC  01550222  01BC0067  000702EE
   ( 1520)  033C02F8  02D602BE  013F01B8  01D500D2  000B02D0  033D02FA  02DB02C0  00A501DC  01B70347  000D025B
   ( 1560)  033C02F1  02DD02BE  028F00F8  00F8028F  000E0243  033A02F3  02DF02BE  00B602F8  02F800B7  0010024F
   ( 1600)  033902F4  02E202BC  02C30214  02040115  00150254  033302F5  02E202BB  0104021B  02130105  00160252
   ( 1640)  032902F5  02E202BA  00D7020F  01CF005A  00180251  031802F7  02DE02BA  01550222  01BC0067  001C0252
   ( 1680)  030602F6  02DA02B8  013F01B8  01D500D1  001E0258  02EC02F1  02D302BA  00A501DB  01B70347  00210264
   ( 1720)  02E702EC  02CB02BA  028F00F8  00F8028F  0031010B  017300BF  00B100E1  00B602F8  02F700B7  00500330
   ( 1760)  022B033F  03340335  11288000  007428B9  43113C09  43114273  43114DC7  43113F18  43113C24  43126848
   ( 1800)  43114F3C  431270AD  43126089  43127A06  431259AD  43127672  1C481D8E  1DAD1BDC  14C4134F  14091457
   ( 1840)  14381428  14381495  154F220B  226D2289  22982289  226D225F  220B217F  20911F95  1E281DE2  1DC81E42
   ( 1880)  1E931EAF  1E351E50  1E5D1E6B  1E6B1E86  1E781E35  1DF11CC8  1D341D6A  1DAE1DC9  1DE41E0D  1E0D1E0D
   ( 1920)  1DD61DA0  1D421CD5  1B7C1B7C  1B991BB6  1B991B99  1B7C1B6D  1B5F1B5F  1B411B5F  1B5F0001  00010001
   ( 1960)  00010001  00010001  00010001  00000000  00000000  F7B4F7BD  F7CAF7D8  F7E6F7F5  F806F817  F82BF842
   ( 2000)  F85FF884  F8B91322  13F2148A  15031569  15C41619  166A16BB  170F176B  17D31853  1CA51DF1  1E0D1C27
   ( 2040)  14C71354  141D1485  146C1460  147314BD  15782264  22BE22D5  22E022D0  22B322A5  225121C4  20D31FD7
   ( 2080)  1E631E23  1E0E1E7C  1EC81EDF  1E5D1E78  1E871E97  1E9B1EBA  1EB11E7E  1E511D01  1D661D99  1DDB1DF3
   ( 2120)  1E0F1E39  1E3D1E40  1E131DDD  1DA21D31  1BA81BA1  1BBB1BD6  1BB71BB7  1B9A1B8E  1B821B84  1B6A1B97
   ( 2160)  1BAA02DB  02460239  03140666  07DD06B2  0683068F  0694068B  066A0616  00000000  00000000  00000000
   ( 2200)  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000  00000000
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SOTA 81

5/5/76 TO 5/8/76

D-28965

126

DATA INPUT 1 0 1 — FILE 1 — RECORD 1711 — LENGTH 2812 BYTES

129

Sata

5/8/76

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(80)	02D302C7	00D8020D	01CE005A	000502F1	033C02F4	02D802C6	01560221	01BB0067	000702F8	033E02F7
(120)	02DB02C7	014001B2	01D300D2	000B02F7	034002F7	02DD02C7	00A501D5	01B60346	000D02FD	033F02FA
(160)	02DF02CA	028F00F8	00F8028F	000E02FC	033E02F7	02DF02C7	00B602F8	02F900B7	001002FA	033C02FB
(200)	02E002C8	02C30212	02080115	001502ED	033802F8	02DE02C8	0105021A	02170105	001602DF	032F02F6
(240)	02DD02C9	00D8020D	01CE005A	001802DF	032102F1	02D902C9	01560221	01BB0067	001C02DD	031302F0
(280)	02D702CA	014001B2	01D300D1	001E02D7	02FB02EE	02D302CA	00A501D5	01B50346	002102CC	02F702EA
(320)	02CE02CC	028F00F8	00F9028F	00310109	018100BD	00B100E0	00B602F8	02F900B7	0050033F	02C2033F
(360)	03330336	115DFFFF	007429FB	431138EC	43114330	43114AA8	43114157	43113906	431265D7	43114C20
(400)	43126C89	43125624	43127419	43124F6D	43126ED5	1D4B1DC6	1E321E23	1E7F1E70	1E511D89	1CB11CB1
(440)	1C921C36	1B8C2243	228922A6	22C222B4	22A62289	225121D3	210F204B	1EFA1EC2	1E0C1E50	1E781E78
(480)	1EA11E78	1EAE1E86	1E6B1E27	1E1A1DFF	1DC91D30	1D741D9C	1DB71DD2	1DD21DE0	1DC51DB7	1D811D66
(520)	1D301CED	1C121C04	1C121C12	1C3E1C12	1C211C21	1C2F1C2F	1C3E1C3E	1C5B001A	00130015	000F0004
(560)	00010001	00010001	00010001	00010001	08000841	086F0894	08B208CC	08E308F9	090D0920	09330943
(600)	094D148A	15091577	15DB163B	169B16FE	176817DF	186A1914	19F11B25	1DA81E21	1E901EA7	1EDC1EEF
(640)	1E9B1DDF	1D021D09	1CED1C77	1BCC229D	22DA22F1	230B22FA	22EC22D0	22982219	21532090	1F391F08
(680)	1E511E88	1EAB1EA6	1ECC1EA0	1ED91EB2	1E9A1E58	1E4F1E47	1E281D6B	1DA61DCB	1DE41DFD	1DFC1E0C
(720)	1DF31DE9	1DB71DA2	1D781D49	1C401C2A	1C341C32	1C5D1C30	1C401C43	1C551C58	1C691C80	1CAB0267
(760)	023001FE	01F401DC	01D401FA	024E02B1	02AE02BB	02F0033D	00000000	00000000	00000000	00000000
(800)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	2015200B
(840)	200B1FE1	1FBF1F95	1FC51FAF	1FA01F5F	1F671F79	1F911C7A	1C661C58	1C3C1C29	1C0C1C26	1C111C0F
(880)	1BE41BF5	1C031C1C	1C4B1C36	1C3C1C41	1C721C4F	1C511C5D	1C751C89	1C971CA4	1CBE218A	21792188
(920)	2147211E	20C82120	21092143	20FA2105	21272149	20EB20E5	20EB20BD	20982069	20A1208A	207A2033
(960)	20372048	20632030	20272026	20001FDE	1FBB1FE6	1FCF1FB5	1F761F7D	1F8E1FA4	1E471E39	1E301E0D
(1000)	1DFC1DD2	1DF41DDC	1DC91D91	1D9C1DAC	1DC31CEF	1CDE1CD1	1CB11C96	1C7B1C98	1C801C74	1C411C4F
(1040)	1C5E1C74	1B9B1B83	1B751B5B	1B4E1B31	1B481B33	1B3B1B17	1B2A1B38	1B511B6B	1B4D1B3F	1B2D1B36
(1080)	1B121B23	1B161B38	1B271B3D	1B4C1B69	1C121BF5	1BFC1BEF	1C151BF1	1BF61BF9	1C221C2F	1C431C52
(1120)	1C6E1C85	1C751C7F	1C891CC0	1CA21CA0	1CB01CC2	1CDE1CE8	1CF11D08	1C8C1C79	1C8D1C98	1CE31CB5
(1160)	1CB71CCD	1CE11D01	1D0C1D1B	1D3A1C68	1C501C62	1C661CB2	1C7A1C83	1C931CAC	1CC31CD2	1CE51D0C
(1200)	1C051BEE	1BF71BF4	1C2B1BFB	1C051C0D	1C1E1C25	1C341C45	1C681BCE	1BB21BB5	1BA81BCF	1B9B1BAE
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(1280)	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF
(1320)	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF
(1360)	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFF0001	00010001	00010001	00010001	00010001
(1400)	00010001	00010001	057C0000	00810504	00150465	42460764	42B9F944	00010000	01750175	01750175
(1440)	01E101DD	01DD01DD	03FF0212	02070115	00020363	0366036A	0366035D	0105021A	02160105	000202EC
(1480)	033702F2	02D202C5	00D8020D	01CE005A	000502F6	033C02F6	02D602C8	01560221	01BB0067	000702FD
(1520)	033E02FA	02DB02C8	014001B2	01D300D2	000B02F8	034002FA	02DE02C8	00A501D5	01B60347	000D02FA
(1560)	033F02F8	02E002C6	028F00F8	00F9028F	000E02FE	033E02FD	02E102C8	00B602F8	02F900B7	00100300
(1600)	033C02FC	02DF02C8	02C30212	02070115	001502F1	033802F8	02DF02C9	0105021A	02170105	001602E0
(1640)	033002FA	02DD02C9	00D8020D	01CE0059	001802E2	032202F6	02DB02C8	01560221	01BB0067	001C02E0
(1680)	031302F3	02D702C9	014001B2	01D300D2	001E02DA	02FB02EF	02D202CB	00A501D5	01B50346	002102D0
(1720)	02F802E9	02CE02CC	028F00F8	00F9028F	00310109	018100BC	00B100DF	00B602F8	02F900B6	0050033E
(1760)	02CB0343	03360337	115DFFFF	007429FB	431138EC	43114330	43114AA8	43114157	43113906	431265D7
(1800)	43114C20	43126C89	43125624	43127419	43124F6D	43126ED5	1D791E13	1E7F1E32	1E511E8F	1EAE1DC6
(1840)	1CC01CDF	1CC01C64	1BCA2243	228922A6	22C222B4	22A62289	225121E1	211D204B	1EFA1ED0	1E351E6B
(1880)	1EA11EA1	1E861EC9	1EBC1E86	1EA11E6B	1E421E0C	1DBB1D23	1D591D9C	1DC51DE0	1DED1DD2	1DD21DB7
(1920)	1D9C1D66	1D231CED	1BF51C21	1C211C21	1C041C21	1C211C2F	1C2F1C21	1C2F1C4D	1C5B000D	000A0008
(1960)	00170015	00010001	00010001	00010001	00010001	07EE082D	085B087E	089B08B4	08CB08E0	08F30906
(2000)	09180927	093114BC	153C15AA	160E166D	16CC172D	17951808	188E1931	1A031B28	1DD81E71	1EE11EB7
(2040)	1EAB1F0E	1EFB1E1F	1D121D39	1D1D1CA7	1C0C229D	22DA22F1	230B22FA	22EC22D0	22982227	21622090
(2080)	1F391F17	1E7B1EA4	1ED41ECF	1EB01EF4	1EE71EB1	1ED11E9E	1E791E54	1E1A1D5D	1D8A1DCB	1DF21E0B
(2120)	1E181DFE	1E011DE9	1DD31DA2	1D6A1D49	1C221C48	1C441C41	1C211C3F	1C401C52	1C551C49	1C5A1C8F
(2160)	1CAB0251	020C01DA	01ED01F2	01C601CE	023102AA	029902A5	02DB0320	00000000	00000000	00000000
(2200)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
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(2280)	1C1C1C1F	1C141C02	1BF71C16	1C2F1C56	1C501C3F	1C211C4B	1C561C6A	1C6B1C68	1C8C1CB0	1CC2219D
(2320)	21762173	21AD216E	21352126	20FC2182	214F2138	21362139	20F820CD	20D321C6	20EA20B5	20982087
(2360)	20A62080	20612051	204F2037	2006200F	20392002A	1FF91FD9	1FD11FD6	1FBA1F9D	1F8B1F93	1E471E0E
(2400)	1E1A1E3F	1E371E09	1DE31DE3	1DE11DCF	1DB41DA2	1DB71CEA	1CB01CBC	1CDD1CD8	1CAD1C87	1C891C87
(2440)	1C7A1C62	1C501C6B	1B8E1B5B	1B671B7D	1B761B5A	1B381B40	1B471B40	1B321B2B	1B4F1B54	1B351B3C

SOTA 82

5/9/76 TO 5/12/76

D-28966

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$JOB   8:18:50
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$EXEC DPHEX BS
 INPUT TAPE ON MS3
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  FILE  1      RECORD    1      LENGTH   4216 BYTES
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130

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(80)	02B002A0	00D70213	01D0005A	00050254	033A02BF	02BA02A1	01550226	01BD0067	0007026E	033D02CD
(120)	02C202A3	013F01BB	01D500D2	000B028B	033E02DB	02C802A4	00A501DE	01B60347	000D028F	033D02DC
(160)	02CC02A4	028F00F8	00F9028F	000E029B	033C02DC	02CE02A4	00B602F8	02F900B7	001C02AA	033902E1
(200)	02CE02A7	02C30218	02090114	001502B0	033302E1	02CF02A8	01030220	02180104	001602AA	032B02DD
(240)	02CF02A9	00D70212	01D0005A	001802B7	031C02E0	02CD02A9	01550226	01BD0067	001C02B0	030C02ED
(280)	02CE02AA	013F01BB	01D500D2	001E02C5	02F202EE	02CC02AB	00A501DE	01B60347	002102AD	02EE02EE
(320)	02C602A9	028F00F8	00FA028F	0031010A	017400BF	00B30CE0	00B602F8	02F900B7	00500330	02A90341
(360)	03350336	115DFFFF	00742A48	43114242	431144C1	43115403	43114475	43114260	43126948	43115574
(400)	43126E45	431265BD	431275D3	43126083	43126D18	138D1466	15F917BB	17F918B3	199C19F9	199C1A66
(440)	19F91B3F	19CB2219	226D2298	22A62298	2289225F	22DB219B	20C91FE9	1E7C1E44	1AD51B85	1C421D00
(480)	1D0D1D0D	1D511D51	1D1B1D43	1DF31E01	1E011B5A	1BE21C4E	1C9F1CD5	1CF01CF0	1CFE1CFE	1CE31CF0
(520)	1CD51C9F	19DA19E9	1A061A15	1A151A15	1A401A4F	1A5D1A5D	1A6C1A7B	1A5D0026	00460027	00120004
(560)	00040004	00040001	00010001	00010001	F5A7F5B6	F5D2F5F2	F611F631	F651F672	F696F6BE	F6EDF727
(600)	F7751E79	20FC2290	239B2458	24E9255E	25C1261A	266C26BC	270D2765	13A9148A	162B17F5	182C18EB
(640)	19D31A40	19E01AB6	1A4C1B89	1A0C2272	22BD22E4	22EF22DE	22D022A5	225121E0	210D202C	1EB91E88
(680)	1B0A1BB2	1C6E1D2C	1D341D32	1D781D7A	1D441D71	1E2B1E4B	1E631B8C	1C0E1C79	1CC91CFD	1D181D19
(720)	1D2A1D2D	1D161D2B	1D1C1CFB	1A001A0A	1A251A31	1A3D1A2F	1A5D1A6E	1A801A82	1A941AB8	1AA606E6
(760)	C68105C5	04F704DF	04890420	03EF041A	03BA03EA	035B0407	00000000	00000000	00000000	00000000
(800)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	1D931FC8
(840)	1F4F1F4C	1F0F1F0C	1F151F16	1EEF1EF6	1FB01FD7	204A1A2A	1B6A1B37	1B2A1B0F	1B111B14	1B251B25
(880)	1B331BB4	1BF11C56	1AF51A60	1A8C1A86	1A8C1A87	1AB21AC2	1AE11AE7	1AD41AFE	1AF01F6E	21B52135
(920)	20E02070	2061208D	20822035	20522148	218221F0	1E4A20D6	20462041	1FF81FF3	20011FFD	1FC81FCD
(960)	209B20BB	21301DB5	1FE01F67	1F701F39	1F371F3B	1F3D1F19	1F1D1FCE	1FF12064	1BC41D99	1D3F1D43
(1000)	1D1B1D1C	1D1C1D26	1D141D1B	1DB91DE8	1E5A1A85	1C1A1BD3	1BCF1BAF	1BB11BAF	1BBD1BB5	1BC01C51
(1040)	1C881CF6	196C1A60	1A401A2A	1A141A16	1A1B1A30	1A371A49	1ABC1B00	1B5E196F	19A019AD	1986197D
(1080)	197F1992	19AD19C7	19DD1A27	1A791AC0	1AC51A15	1A441A24	1A261A22	1A471A5F	1A821A96	1A9C1AE0
(1120)	1AEF1B84	1AC11AEB	1AF91B05	1AFF1B29	1B361B54	1B541B27	1B401B20	1AA51A21	1A4B1A66	1A721A6B
(1160)	1AA91AB8	1ADA1AD3	1AA21ABD	1A8C1994	1976199A	19B119BB	19B619FA	1A0F1A34	1A301A1B	1A491A2C
(1200)	1951197C	198E19A0	19A519A4	19D519EB	1A0A1A08	1A121A44	1A48189A	193A1933	194C193A	19391964
(1240)	197E1998	199B19D6	1A181A44	16DE187D	1847185B	183E183C	1876189A	18B318B9	195019B9	1A29FFFF
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(1320)	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF
(1360)	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFF0001	00010001	00010001	00010001	00010001
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(1440)	019D019D	019D019D	03FF0218	02090114	00020363	0366036A	0366035D	01030220	02180104	00020248
(1480)	033502B3	02BC02A0	00D70213	01D0005A	00050256	033A02C0	02B902A1	01550227	01BC0067	00070270
(1520)	033D02D0	02C302A1	013F01BB	01D500D2	000B028F	033E02DC	02CA02A3	00A501DF	01B60347	000D0296
(1560)	033C02DC	02CB02A5	028F00F8	00FA028F	000E029C	033B02DF	02CF02A6	00B602F8	02FA00B7	001002A2
(1600)	033902DE	02CD02A7	02C30218	02090114	001502A6	033402E0	02CF02A8	01030220	02190104	001602A6
(1640)	032A02E0	02CF02A9	00D70213	01D0005A	00180288	031C02DF	02CD02AA	01550226	01BC0067	001C029D
(1680)	030C02E7	02CE02A8	013F01BB	01D500D2	001E02A0	02F302ED	02CD02AA	00A501DF	01B60347	002102A3
(1720)	02EE02EF	02C802A7	028F00F8	00F9028F	0031010A	017500BE	00B200E1	00B602F8	02F900B7	00500330
(1760)	02AA0341	03370337	115DFFFF	00742A48	43114242	43114401	43115403	43114475	43114260	43126948
(1800)	43115574	43126E45	431265BD	431275D3	43126083	43126D18	13DB1485	161917F9	186618C3	1920195E
(1840)	195E1A75	18D21901	19302227	226D2298	22A62289	227B225F	2219218D	20C91FE9	1E8A1E44	1AE21B92
(1880)	1C6B1D0D	1D0D1D36	1D281D43	1D431D36	1DA21DF3	1E0E1B5A	1BD41C5B	1CBA1CC8	1CFE1CE3	1CFE1CFE
(1920)	1CE31CF0	1CE31C9F	19DA19E9	19E91AD6	1A231A32	1A4D1A4F	1A5D1A6C	1A4F1A6C	1A400056	00350014
(1960)	00040010	00040004	00040013	002D0012	00020001	F5C2F5CB	F5E1F5FC	F619F636	F653F673	F695F6BC
(2000)	F6E9F722	F76F2C96	2A4828BE	27AD26E5	264925CA	255C24F9	249C2442	23E72384	13F914A9	16491834
(2040)	189818F4	19481995	199A1AC2	19161935	196A2281	22BD22E4	22EF22D0	22C122A5	225F21D2	210C202C
(2080)	1EC81E88	1B181BC0	1C981D39	1D331D5B	1D4C1D6B	1D6E1D63	1DD71E3D	1E711B8C	1C001C87	1CE51CEF
(2120)	1D261D0B	1D2A1D2D	1D161D2B	1D2A1CFB	1A001A0A	1A071A22	1A3E1A4D	1A5D1A6E	1A801A91	1A761AA9
(2160)	1A8806C3	067305B8	04DB04AE	0485045F	043C043A	03B50476	04670450	00000000	00000000	00000000
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FILE 1 RECORD 1577 LENGTH 4216 BYTES

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5/12/76

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(80)	02D902BC	00DC0209	01CB005A	00050248	00030300	02DE02BE	0046021C	01B80068	0007023A	000302FF
(120)	02E1025F	0306 01AA	01D000D3	000B0236	00030300	02E602C1	00A501CB	01B40347	000D023A	000302FE
(160)	02E902C3	028F00F8	00F9028F	000E0245	000302FE	02EA02C1	00B602F8	02F900B7	00100256	00030304
(200)	02E802C3	02C3020E	02040116	00150265	00030306	02EA02C1	01090215	02130106	0016026A	00030307
(240)	02E902C2	00DC0209	01CB005A	00180266	00030304	02E502BF	0046021C	01B70067	001C0260	00030300
(280)	02DF02BF	000601AA	01D1 00D2	001E025A	000302FF	02DA02BE	00A501CB	01B30347	0021025B	000302F7
(320)	02D302BF	028F00F8	00F8028F	0031010A	000300BB	00B200E0	00B602F8	02F800B7	0050033F	00030340
(360)	03350335	1193FFFF	00742B8B	431132B2	43113DAB	4311446D	43113A42	431132C9	431261B0	4311445A
(400)	43126869	4312468A	431271A4	43123CA3	43126C75	15061385	12AD126F	12AD1357	145D1544	15911553
(440)	14F7149A	14AA0C60	0C600C60	0C600C60	0C600C60	0C600C60	0C600C60	0C600C60	1EE11EE1	1ED41EE1
(480)	1EC61EC6	1F171F32	1F401F17	1EE11ED4	1E681D80	1DC31DEC	1E2F1E58	1E661E73	1E661E58	1E221DD1
(520)	1D8D1D2F	1B6A1B88	1B961BB3	1BD01BB3	1BD01BB3	1BC21B96	1B961B88	1B960000	00000000	00000000
(560)	00000000	00000000	00000000	00000000	05720596	05AF05C2	05D105DF	05EB05F6	0600060B	06150620
(600)	062A168D	16F7174A	178F17CD	18071840	187918B5	18F81945	19A41A24	153813AC	12CF128C	12C71377
(640)	14841580	15D31597	153914C3	14CE0C8A	0C910C94	0C850C7B	0C760C75	0C750C7B	0C830C91	0C920C93
(680)	1F2B1F1B	1F061F10	1EF01EEF	1F431F61	1F721F4D	1F1A1F1F	1ECA1DBC	1DF51E1B	1E5B1E83	1E901EA0
(720)	1E951E8B	1E591E0D	1DD61D8C	1B951BAB	1BB71BCE	1BEF1BD0	1BF01BD5	1BE71BBD	1BC01BC7	1BE30633
(760)	06E50748	0767074C	06FD0684	061305ED	06080632	06680662	00000000	00000000	00000000	00000000
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(880)	1D1F1CE7	1CE81CCE	1B8E1B92	1B911B92	1BA71B7F	1B8F1B73	1B8A1B77	1B991BAD	1BE522C8	22B022A7
(920)	22C522BB	22C522F8	230B2314	22F322B0	22AB2246	220E21F5	21E52202	21FF220B	222A2237	223C2222
(960)	21E421E5	21882139	21172101	211D211F	212B2140	2148214C	213320FA	20FC20BA	1F3E1F10	1EF61F15
(1000)	1F1A1F22	1F3D1F41	1F471F29	1EED1EEF	1EC11DD5	1DA31D89	1DAA1DAD	1DB41DD5	1DDC1DE1	1DC01D82
(1040)	1D811D5C	1C371C05	1BEF1C0E	1C141C0F	1C3C1C3E	1C4B1C22	1BEC1BED	1BDC1B9B	1B6E1B5C	1B771B82
(1080)	1B6E1BA1	1B9A1BAF	1B821B5F	1B641B71	1B911B80	1B7B1B86	1B961B71	1B9A1B87	1BA11B7E	1B861B91
(1120)	1BC11B9D	1BAC1BAE	1BA61BBF	1B961B95	1B731B88	1B801BB3	1BCB1C0D	1B5E1B7B	1B801B76	1B971B5E
(1160)	1B611B35	1B541B46	1B8B1BAD	1BF21B58	1B6B1B6A	1B6A1B8D	1B501B62	1B331B59	1B3E1B76	1B9B1BD9
(1200)	1B601B62	1B5A1B61	1B7F1B50	1B651B41	1B5F1B43	1B611B7E	1BAA1B88	1B771B66	1B791B95	1B6D1B8B
(1240)	1B6D1B8A	1B651B6A	1B841BA0	1C371C0C	1BE81C0D	1C371C06	1C2D1C04	1C2B1BF3	1BE41C0A	1C22FFFF
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(1440)	01DD01DD	01DD01DD	03FF020E	02030116	00020363	0006036A	0366035D	01090215	02130106	00020267
(1480)	00030301	02D802BA	00DC0209	01CB005A	00050250	00030304	02DF02BE	0046021C	01B70067	00070244
(1520)	00030303	02E402BF	000601AA	01D000D2	000B0246	00030300	02E702C0	00A501CB	01B40347	000D024F
(1560)	00030301	02EA02C1	028F00F8	00F8028F	000E025B	00030303	02E902C0	00B602F8	02F900B7	00100265
(1600)	00030307	02EB02C1	02C3020E	02030116	00150268	00030304	02EB02C0	01090215	02130106	00160263
(1640)	00030304	02E802C0	00DC0209	01CB005A	0018025D	00030301	02E702BE	0046021C	01B80068	001C0258
(1680)	00030300	02E102BE	000601AA	01D000D2	001E0254	000302FB	02DA02BE	00A501CB	01B40347	00210258
(1720)	000302F9	02D302BD	028F00F8	00F9028F	0031010A	000300BC	00B000E0	00B602F8	02F900B6	0050033F
(1760)	00030341	03330335	1193FFFF	00742B8B	431132B2	43113DAB	4311446D	43113A42	431132C9	431261B0
(1800)	4311445A	43126869	4312468A	431271A4	43123CA3	43126C75	15621400	13471366	13F114AA	15441572
(1840)	152514C8	147B143E	147B0C60	0C600C60	0C600C60	0C600C60	0C600C60	0C600C60	0C600C60	1EEF1F17
(1880)	1F0A1EE1	1EEF1F0A	1F401F17	1F171EEF	1EE11E9E	1E831D72	1DD11E14	1E3D1E66	1E581E73	1E731E4B
(1920)	1F3D1DEC	1D8D1D2F	1B4D1B88	1B961BA5	1BB31BA5	1BB31BA5	1BA51B88	1B881B88	1B790000	00000000
(1960)	00000000	00000000	00000000	00000000	00000000	0558057B	059405A7	05B605C3	05CF05DA	05E505EF
(2000)	05F90604	060E169F	1708175A	179E17DC	1815184C	18851 8C0	1902194D	19AB1A28	1599142E	1372138D
(2040)	141A14D9	157515B1	15641508	14BA1464	149F0CA1	0CCC0CDE	0CD50CCC	0CC70CC6	0CC80CCB	0CD40CDB
(2080)	0CD00CB2	1F381F52	1F3E1F0F	1F1A1F34	1F6C1F45	1F481F23	1F1A1EE7	1EE61DAD	1E031E40	1E691E8D
(2120)	1E821EA0	1EA31E7D	1E751E29	1DD61D8C	1B761BAB	1BAA1BBF	1BC11BC1	1BD11BC6	1BC91BAE	1BB11BC7
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(2200)	00000000	00000000	00000000	00000C00	00000000	00000000	00000000	00000000	00000000	00000000
(2240)	21382136	21312121	21332120	21482149	212D213A	21082 0C4	20C91D34	1D291D24	1D181D28	1D191D44
(2280)	1D3E1D29	1D2A1D01	1CCE1CE1	1B6F1B86	1B741B7F	1B6E1B6A	1B691B62	1B751B67	1B851BB9	1BC422E1
(2320)	22EE22EA	22D122E7	22E62317	230922F7	22EA22C0	226E226F	22252220	22282213	22282219	22422241
(2360)	2227222D	21FE21B2	21B12149	21442140	21312144	212E2153	21572138	21492119	20D820DC	1F461F3A
(2400)	1F29	1F3B1F24	1F4D1F4F	1F321F40	1F0E1ED1	1EDE1DDA	1DCC1DC9	1DBB1DCD	1DBC1DE7	1DE51DC9
(2440)		19651D75	1C331C28	1C231C17	1C261C1B	1C471C3D	1C2C1C27	1C021BD5	1BEA1B8A	1B861B7D