#435

GOES 1 & 2
MAGNETOMETER DATA
75-100A-04A
77-048A-04A

GOES 2, 5, 6, 7
X-RAY MONITOR DATA
77-048A-03A
81-049A-03A
83-041A-03A
87-022A-03A

GOES 1 & 2

MAGNETOMETER DATA

75-100A-04A

77-048A-04A

These data sets have been restored. There was originally one 9-track, 1600 BPI tape written in Binary. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on an IBM 360 computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR005908	DS005908	D033600	1	07/28/77 - 07/29/77

REQ.A GENT.	RAND NO.	ACQ. AGENT
VJP	RD2125 RD0914	BCD MJT

GOES 1 & 2

MAGNETOMETER DATA

75-100A-04A

77-048A-04A

This data set catalog consists of 2 data tapes. The tapes are 1600 BPI, binary, 9 track and are multifiled. The tapes were created on a CDC 6600 computer. Tape D-32272 has only GOES 2 data and tape D-33600 has both GOES 1 & 2 data.

Time span is as follows:

D#	C#	TIME SPAN
D-32272	C-20148	12/02/77 - 12/12/77
D-33600	C-20554	07/28/77 - 07/29/77

* When processing this data set, get octal dumps instead of hex dumps of the tapes since the CDC 6600 writes a 6-bit and a 60-bit word.

GOES-2

X-Ray Monitor Data

77-048A-03A

This data set has been restored. There were originally 41 9-track, 1600 BPI tapes written in Binary. There are ten restored tapes. The DR tapes are 3480 cartridges and the DS tapes are 9-track, 6250 BPI. The tapes were created on a 360 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
DR03610	DS03610	D54482	1	01/01/80 - 01/26/80
		D54483	2	02/05/80 - 02/29/80
		D54484	3	03/01/80 - 03/31/80
		D54485	4	04/01/80 - 04/30/80
		D42103	5	05/01/80 - 05/30/80
DR03611	DS03611	D43058	1	06/01/80 - 06/30/80
		D54486	2	07/01/70 - 07/31/80
		D54487	3	08/01/80 - 08/31/80
		D54488	4	09/01/80 - 09/30/80
DR03612	DS03612	D54489	1	10/01/80 - 10/31/80
		D54490	2	11/02/80 - 11/30/80
		D54491	3	12/01/80 - 12/31/80
		D54492	4	01/01/81 - 01/31/81
DR03613	DS03613	D54493	1	02/01/81 - 02/28/81
		D54494	2	03/01/81 - 03/31/81
		D54495	3	04/01/81 - 04/30/81
		D54496	4	05/01/81 - 05/31/81
DR03614	DS03614	D54497	1	06/01/81 - 06/30/81
		D54498	2	07/01/81 - 07/31/81
		D54499	3	08/01/81 - 08/31/81
		D54500	4	09/01/81 - 09/30/81
DR03615	DS03615	D54501	1	10/01/81 - 10/31/81
		D54502	2	11/01/81 - 11/30/81
		D54503	3	12/01/81 - 12/31/81
		D59934	4	01/02/82 - 01/31/82
DR03620	DS03620	D59935	1	02/01/82 - 02/28/82
		D63835	2	03/01/82 - 03/31/82
		D63836	3	04/01/82 - 04/30/82
		D63837	4	05/01/82 - 05/31/82

77-048A-03A (Cont.)

DR#	DS#	DD#	FILES	TIME SPAN
DR03621	DS03621	D63838	1	06/01/82 - 06/30/82
		D63839	2	07/01/82 - 07/31/82
		D59936	3	08/01/82 - 08/31/82
		D59937	4	09/01/82 - 09/30/82
DR03622	DS03622	D62614	1	10/01/82 - 10/30/82
		D62615	2	11/01/82 - 11/30/82
		D62616	3	12/01/82 - 12/31/82
		D62617	4	01/01/83 - 01/31/83
DR03623	DS03623	D62618	1	02/01/83 - 02/28/83
		D62619	2	03/01/83 - 03/31/83
		D62620	3	04/01/83 - 04/30/83
		D62621	4	05/01/83 - 05/19/83

REQ. AGENT	RAND NO.	ACQ. AGENT
VPL	V0063	DMS
ROP		

GOES-2

X-RAY MONITOR DATA

77-048A-03A

This data set catalog consists of 41 data tapes. The tapes are 9 track, 1600 BPI, binary and contain one file of data. The tapes were created on an CDC 6600 computer. The D#'s and C#'s and time spans are as follows:

D#	C#	TIME SPAN
D-54482	C-22879	01/01/80 - 01/26/80
D-54483	C-22880	02/05/80 - 02/29/80
D-54484	C-22881	03/01/80 - 03/31/80
D-54485	C-22882	04/01/80 - 04/30/80
D-42103	C-21187	05/01/80 - 05/31/80
D-43058	C-21304	11/02/80 - 11/30/80
D-54486	C-22883	07/01/80 - 07/31/80
D-54487	C-22884	08/01/80 - 08/31/80
D-54488	C-22885	09/01/80 - 09/30/80
D-54489	C-22886	10/01/80 - 10/31/80
D-54490	C-22887	06/01/80 - 06/30/80
D-54491	C-22888	12/01/80 - 12/31/80
D-54492	C-22889	01/01/81 - 01/31/81
D-54493	C-22890	02/01/81 - 02/28/81
D-54494	C-22891	03/01/81 - 03/31/81
D-54495	C-22892	04/01/81 - 04/30/81
D-54496	C-22893	05/01/81 - 05/31/81
D-54497	C-22894	06/01/81 - 06/30/81
D-54498	C-22895	07/01/81 - 07/31/81

X-RAY MONITOR DATA 77-048A-03A CON'T:

D#	C#	TIME SPAN
D-54499	C-22896	08/01/81 - 08/31/81
D-54500	C-22897	09/01/81 - 09/30/81
D-54501	C-22898	10/01/81 - 10/31/81
D-54502	C-22899	11/01/81 - 11/30/81
D-54503	C-22900	12/01/81 - 12/31/81
D-59934	C-23550	01/02/82 - 01/31/82
D-59935	C-23551	02/01/82 - 02/28/82
D-63835	C-24086	03/01/82 - 03/31/82
D-63836	C-24087	04/01/82 - 04/30/82
D-63837	C-24088	05/01/82 - 05/31/82
D-63838	C-24089	06/01/82 - 06/30/82
D-63839	C-24090	07/01/82 - 07/31/82
D-59936	C-23552	08/01/82 - 08/31/82
D-59937	C-23553	09/01/82 - 09/30/82
D-62614	C-23897	10/01/82 - 10/30/82
D-62615	C-23898	11/01/82 - 11/30/82
D-62616	C-23899	12/01/82 - 12/31/82
D-62617	C-23900	01/01/83 - 01/31/83
D-62618	C-23901	02/01/83 - 02/28/83
D-62619	C-23902	03/01/83 - 03/31/83
D-62620	C-23903	04/01/83 - 04/30/83
D-62621	C-23904	05/01/83 - 05/19/83

REQ. AGENT	RAND NO.	ACQ. AGENT
ROP		

GOES 5

X-RAY MONITOR DATA

81-049A-03A

This data set consists of 14 magnetic tapes. The tapes are 9 track, 1600 BPI, binary and contain one file of data. The tapes were created on an CDC 6600 computer. The D#'s and C#'s and time span are on the following page.

X-RAY MONITOR DATA 81-049A-03A GOES 5

D#	C#	TIME SPAN
D-64629	C-24325	05/01/83 - 05/31/83
D-64630	C-24326	07/01/83 - 07/31/83
D-64270	C-24224	08/01/83 - 08/31/83
D-64271	C-24225	09/01/83 - 09/30/83
D-64272	C-24226	10/01/83 - 10/31/83
D-64273	C-24227	11/01/83 - 11/30/83
D-64274	C-24228	12/01/83 - 12/31/83
D-64275	C-24229	01/01/84 - 01/31/84
D-64276	C-24230	02/01/84 - 02/29/84
D-64277	C-24231	03/01/84 - 03/31/84
D-64278	C-24232	04/01/84 - 04/30/84
D-64279	C-24233	05/01/84 - 05/31/84
D-64631	C-24327	06/01/84 - 06/30/84
D-64632	C-24328	07/01/84 - 07/31/84

REQ. AGENT	RAND NO.	ACQ. AGENT
ROP DHG		HKH

GOES 6

X-RAY MONITOR DATA

83-041A-03A

This data set consists of 49 magnetic tapes. The tapes are 9 track, 1600 bpi, binary and contain one file of data. They were created on a CDC 6600 computer. The D and C numbers and time spans follow:

D#	C#	FILES	TIME SPAN
D-65362	C-24638	1	06/01/83 - 06/30/83
D-65363	C-24639	1	08/01/84 - 08/31/84
D-65364	C-24640	1	09/01/84 - 09/30/84
D-65365	C-24641	1	10/01/84 - 10/31/84
D-65366	C-24642	1	11/01/84 - 11/30/84
D-66232	C-24785	1	12/01/84 - 12/31/84
D-79233	C-27032	1	01/01/85 - 01/31/85
D-79234	C-27033	1	02/01/85 - 02/28/85
D-79235	C-27034	1	03/01/85 - 03/31/85
D-79236	C-27035	1	04/01/85 - 04/30/85
D-79237	C-27036	1	05/01/85 - 05/31/85
D-79238	C-27037	1	06/01/85 - 06/30/85
D-79239	C-27038	1	07/01/85 - 07/31/85
D-79240	C-27039	1	08/01/85 - 08/31/85
D-79241	C-27040	1	09/01/85 - 09/30/85
D-79242	C-27041	1	10/01/85 - 10/31/85
D-79243	C-27042	1	11/01/85 - 11/30/85
D-79244	C-27043	1	12/01/85 - 12/31/85
D-79245	C-27044	1	01/01/86 - 01/31/86
D-79246	C-27045	1	02/01/86 - 02/28/86
D-79247	C-27046	1	03/01/86 - 03/31/86
D-79248	C-27047	1	04/01/86 - 04/30/86
D-79249	C-27048	1	05/01/86 - 05/31/86
D-79250	C-27049	1	06/01/86 - 06/30/86
D-79251	C-27050	1	07/01/86 - 07/31/86
D-79252	C-27051	1	08/01/86 - 08/31/86
D-79253	C-27052	1	09/01/86 - 09/30/86
D-79254	C-27053	1	10/01/86 - 10/31/86
D-79255	C-27054	1	11/01/86 - 11/30/86
D-79256	C-27055	1	12/01/86 - 12/31/86
D-79257	C-27056	1	01/01/87 - 01/31/87
D-79258	C-27057	1	02/01/87 - 02/28/87
D-79259	C-27058	1	03/01/87 - 03/31/87
D-79260	C-27059	1	04/01/87 - 04/30/87
D-79261	C-27060	1	05/01/87 - 05/31/87
D-79262	C-27061	1	06/01/87 - 06/30/87

D#	C#	FILES	TIME SPAN
D-79273	C-27073	1	07/01/87 - 07/31/87
D-79274	C-27074	1	08/01/87 - 08/31/87
D-79275	C-27075	1	09/01/87 - 09/30/87
D-79276	C-27076	1	10/01/87 - 10/31/87
D-79277	C-27077	1	11/01/87 - 11/30/87
D-79278	C-27078	1	12/01/87 - 12/31/87
D-79279	C-27079	1	01/01/88 - 01/31/88
D-79280	C-27080	1	02/01/88 - 02/28/88
D-79281	C-27081	1	03/01/88 - 03/31/88
D-79282	C-27082	1	04/01/88 - 04/30/88
D-79283	C-27083	1	05/01/88 - 05/31/88
D-79284	C-27084	1	06/01/88 - 06/30/88
D-80265	C-27568	1	07/01/88 - 07/31/88
D-80266	C-27569	1	08/01/88 - 08/31/88
D-79285	C-27085	1	09/01/88 - 09/30/88
D-80267	C-27570	1	10/01/88 - 10/31/88
D-80268	C-27571	1	11/01/88 - 11/30/88
D-80269	C-27572	1	12/01/88 - 12/31/88
D-80270	C-27573	1	03/01/89 - 03/31/89
D-80271	C-27574	1	***USE THIS NUMBER***

REQ. AGENT	RAND NO.	ACQ. AGENT
DHG		HKH

GOES 7

X-RAY MONITOR DATA

87-022A-03A

This data set consists of 5 magnetic tapes. The tapes are 9 track, 1600 bpi, binary and contain one file of data. They were created on a CDC 6600 computer. The D and C numbers and time spans follow:

D#	C#	FILES	TIME SPAN
D-80272	C-27575	1	01/01/89 - 01/31/89
D-80273	C-27576	1	02/01/89 - 02/28/89
D-80274	C-27577	1	04/01/89 - 04/30/89
D-80275	C-27578	1	05/01/89 - 05/31/89
D-80276	C-27579	1	06/01/89 - 06/30/89

77-048A-03A

SMS ARCHIVE TAPES -- RECORD STRUCTURE

RECORD 1 : KRONOS 2.1 LABEL

JOE HASKELL ALLEN JAN 25 '76

DATA RECORD 1 -- 512 WORD, GENERAL INFORMATION

WORD:

1-3 - DATA TYPE
  a. - MAGNETOMETER
  b. - XRAY
  c. - PARTICLES
4 - SATELLITE ID
5 - YEAR
6 - MONTH
7-37 - SATELLITE POSITION
38-62 - FLAG CODE INFORMATION
63-512 - UNUSED

DATA RECORD 2 to N

WORD:

1-12 - AVERAGES WITHIN 5 MINUTE INTERVALS
13-512 - MAGNETOMETER DATA -- IN 5 WORD GROUPS
  1 - SECONDS OF YEAR
  2 - Hp - gamma
  3 - He - gamma
  4 - Hn - gamma
  5 - FLAG

comp
H parallel to satellite axis
H between satellite and earth; direction outward
H normal to ~~parallel~~
the plane of Hp and Hn
right-handed system

XRAY DATA -- IN 4 WORD GOUPS
  1 - SECONDS OF YEAR
  2 - XRAY "SHORTSUN" - WATT/m^2
  3 - XRAY "LONGSUN" - WATT/m^2
  4 - FLAG

PARTICLE DATA -- IN 5 WORD GROUPS
  1 - SECONDS OF YEAR
  2 - MULTIPLEX CHANNEL 2 - COUNT/SEC
  3 - MULTIPLEX CHANNEL 4 - COUNT/SEC
  4 - MULTIPLEX CHANNEL 8 - COUNT/SEC
  5 - FLAG

April 1980

D-33600

This nine-track tape contains four files of binary magnetometer data, the first two files being GOES-1 data and final two, GOES-2 data. The tape was written with a density of 1600 BPI on a CDC Model 6600. The parity is odd.

Files one and three contain respectively 324 and 280 unformated records of data taken at three-second intervals. Each file is terminated by one end-of-file mark. Each physical record contains one logical record. The records are 404 words long. The first four words specify year, month, day and hour. Next is three-minutes' worth of three-second data as follows:

1 YEAR (i.e. 77)	2 MONTH (i.e. 70)	3 DAY of month	4 HOUR (0-24)
5 TIMEX100 (min. of hour X 100)	6 HPX100	7 HEX100	8 HNX100
M -99900	M + 1 -99900	M + 2 -99900	M + 3 -99900
N TIMEX100	N + 1 HPX100	N + 2 HEX100	N + 3 HNX100
397 -99900	398 -99900	399 -99900	400 -99900
401 -99900	402 -99900	403 -99900	404 -99900

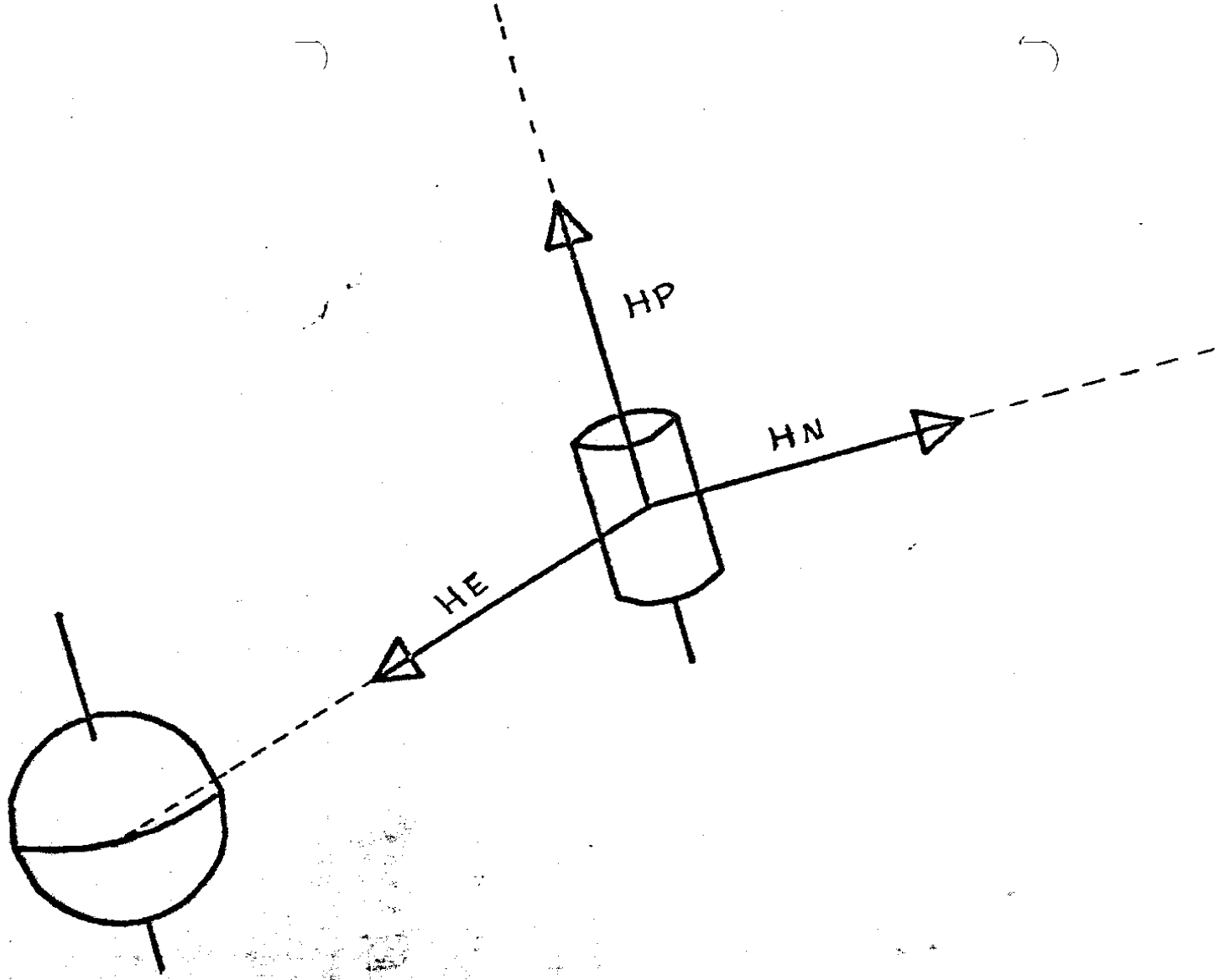
Other than the first four words (time information), all values have been multiplied by 100 so that they could be written as binary integers to facilitate reading. Space for 100 samples for each component (TIME,HP, HE,HN) was allocated to each five-minute period. It has turned out that the last eight words are superfluous. These excess words, as well as data gaps of less than a full five-minute period, have been filled with the value of -99900. Data gaps covering one or more full five-minute periods have been ignored.

The second and fourth files each contain 96 unformated records of five-minute averages of the above data. The second file is followed by one end-of-file mark, while the fourth, and final, file is followed by at least two end-of-file marks.

Again each physical record contains one logical record. Each record contains 40 words. The first four words are again, year, month, day and hour. Each record contains one hour's worth of five-minute average, e.g.:

1 YEAR	2 MONTH	3 DAY	4 HOUR
5 HPX100	6 HEX100	7 HNX100	
38 HPX100	39 HEX100	40 HNX100	

Minute of the hour information is not included. The first set of values (HP,HE,HN) are centered around minute five of the first hour and averages for each five-minute period follow sequentially. All data gaps have been filled with zeroes. However, a value of zero indicates missing data only if it occurs in all three components. Again, all data values have been multiplied by 100 and written as integers using an unformated WRITE statement.


HP
HN
HE

SATELLITE	3 SECOND SAMPLES		5 MINUTE AVERAGES	
	FILE NO.	NO. OF REC.	FILE NO.	NO. OF REC.
GOES 1	1	324	2	48
GOES 2	3	280	4	48

	GOES 1	GOES 2
LONGITUDE	75.80	67.00
LATITUDE	0.00	0.00
HEIGHT	42169	42348

D-32272

This nine-track tape contains binary magnetometer data from the GOES-2 satellite for Dec. 2, 10, 11, and 12, 1977. The tape was written at a density of 1600 BPI on a CDC Model 6600. The parity is odd. The data is given as components HP, HE, HN.

There are two files on this tape. The first file contains 1152 unformated records of data taken at three second intervals (as it comes from the satellite), followed by an end-of-file mark. Each physical record contains one logical record. Each record contains 404 words. The first four words specify year, month, day, and hour and are followed by 5 minutes worth of 3-second data as follows:

1	2	3	4
YEAR (i.e.77)	MONTH (1-12)	DAY of month	HOUR (0-23)
5	6	7	8
Time x 100 (min of the hour)	HP x 100	HE x 100	HN x 100
n	n + 1	n + 2	n + 3
-99900	-99900	-99900	-99900
m	m + 1	m + 2	m + 3
Time x 100	HP x 100	HE x 100	HN x 100
397	398	399	400
-99900	-99900	-99900	-99900
401	402	403	404
-99900	-99900	-99900	-99900

Space for 100 samples of each component (TIME, HP, HE, HN) has been allocated to each 5-minute period. Time gaps and excess words have been filled with -99900. At least the last 8 words are always -99900. Other than the first 4 words, all values have been multiplied by 100 so that they could be written as integers to facilitate reading.

The second file contains 96 unformated records of 5 minute averages of the above data followed by at least 2 end-of-file marks. Again, each physical record contains one logical record. Each record contains 40 words, the first four again being year, month, day and hour as above. Each record contains one hour's worth of 5 minute data:

1	2	3	4
YEAR	MONTH	DAY	HOUR
5	6	7	
HP x 100	HE x 100	HN x 100	
8	9	10	
HP x 100	HE x 100	HN x 100	
38	39	40	
HP x 100	HE x 100	HN x 100	

Minute of the hour information is not included, as each average is a centered average; the first value is the average of points around minute 5 and each succeeding average if five minutes later than the preceding one. A zero value in components HP and HE indicate missing data; a zero in HN indicates missing data only if HP and HE are also missing. Again all values have been multiplied by 100 and written as intergers using an unformed write statement.

DUMP OF TAPE D-54492

D-54492

INPUT TAPE D-54492 ON MT1
DATA INPUT 09 FL 1 2 STOP

MON = 1

YR = 81

FILE	1 RECORD	1 LENGTH	5120BYTES					
(0)	302201315127	012424501505	240522355255	555555555555	555555555555	071705235535	555555551726	504000000000
(48)	000017204000	000000000000	173240620000	000000001732	406200000000	000017324060	000000000000	173240600000
(96)	000000001732	406000000000	000017324060	000000000000	173240600000	000000001732	406000000000	000017324060
(144)	000000000000	173240600000	000000001732	406000000000	000017324060	000000000000	173240600000	000000001732
(192)	406000000000	000017324062	000000000000	173240640000	000000001732	407000000000	000017324072	000000000000
(240)	173240740000	000000001732	407600000000	000017324100	000000000000	173241020000	000000001732	410400000000
(288)	000017324110	000000000000	173241120000	000000001732	411400000000	000017324116	000000000000	173241200000
(336)	000000001732	412400000000	000017324124	000000000000	173241240000	000000002305	200122012405	550614010755
(384)	031704055505	140515051624	235501220555	220503172605	220504550123	550617141417	272300555511	061454111624
(432)	050705225106	140107552717	220452575555	170606230524	550614010756	551722551525	142411201405	305503172516
(480)	240522541517	045111061456	344152575555	150522070555	241115055522	050104550522	221722550614	010723541517
(528)	045111061450	344156354041	525755552301	240514141124	055523240124	055415170451	110614503733	444156343333
(576)	335257555520	221707220115	552605222311	171654110614	503733444150	343333330000	000000000000	000000000000
(624)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(672)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(720)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(768)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(816)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(864)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(912)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(960)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1008)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1056)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1104)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1152)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1200)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1248)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1296)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1344)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1392)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1440)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1488)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
(1536)	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000	000000000000
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FILE 1 RECORD 2 LENGTH 5120BYTES

seconds & year

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(144)	526240224452	600125252527	222531151727	726000000000	000016665651	056715762412	167460325262	402244521776
(192)	525252544752	565217277340	000000000000	166657402661	312024361674	603252624022	445217765252	525447525652
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DUMP OF TAPE D-54492

INPUT TAPE D-54492 ON MT4
DATA INPUT 09 NF 1 SR 1 LAST 1

end time (secs of year)

FILE 1 RECORD 6924 LENGTH 5120BYTES

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(1968)	000016675704	237335162242	167540534326	617046541750	410301000000	000017455067	453000000000	166760271522
(2016)	561123001675	412222042422	656617504103	010000000000	174550674544	000000001667	624127441226	236216754171
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