710

ISEE 1

3-S DC Electric and Magnetic Field Data

77-102A-04W

77-102A-11E

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

ISEE 1

3-S DC Electric and Magnetic Field Data

77-102A-04W SPMS-00165

77-102A-11E

This data set consists of one Optimum optical disk. The documentation provided here is included on the disk. The KV number, label name and time span follows:

KV #	Label Name	Time Span
KV00017	IC1K_0001A	12/04/77 - 12/30/79

77-102A-11E & -04W DSC# 710

1 of 9
(print from disk)

CCSDXZLM0001SMARK001CCSDXVNM0002SMRK0001
LOG_VOL_IDENT: USA_NASA_NSSD_IC1K_0001A
LOG_VOL_INITIATION_DATE: 1990-09-19
LOG_VOL_CLOSING_DATE: YYYY-MM-DD
LOG_VOL_CAPACITY: 1GB/LOGICAL_VOL
LOG_VOL_FILE_STRUCTURE: FILES-11
VOLUME_DIAMETER: 12 INCHES
VOLUME_DRIVE_MFGR_AND_MODEL: OPTIMEM 1000
COMPUTER_MFGR: DIGITAL EQUIPMENT CORPORATION
OPERATING_SYSTEM: MICROVMS 4.7
COMPUTER_SYSTEM: MICRO VAX II
TRANSFER_SOFTWARE: SOAR 3.0
TECHNICAL_CONTACT: JUDY JOHNSON, CODE 696, BLDG 2, ROOM 233
GODDARD SPACE FLIGHT CENTER, GREENBELT, MD 20771
~~(301) 286-5403, ELDYN::XR233~~ (301) 286-4888, ELDYN::U6JAJ
PREV_LOG_VOLS: NONE

CCSDXVNM0002EMRK0001CCSDXSNM0002SMRK0003
DATA_SET_NAME: HIGH RESOLUTION DIGITAL DATA(HRDD-C)
DATA_SOURCES: INTERNATION SUN-EARTH EXPLORER 1 (ISEE-1), ELECTRIC FIELD DOUBLE PROBE FLOATING POTENTIAL ANTENNA AND FLUXGATE MAGNETOMETER
SCIENTIFIC_CONTACT: DR. T. AGGSON, CODE 696, BLDG 2, ROOM 231
GODDARD SPACE FLIGHT CENTER, GREENBELT, MD 20771
(301) 286-5726
SOURCE_CHARACTERISTICS:

A. DESCRIPTION_OF_SPACECRAFT:
The International Sun-Earth Explorer (ISEE) Program consisted of three satellites intended to study the Earth's magnetosphere and the solar wind. ISEE-1 and ISEE-2 were launched on October 22, 1977 into highly elliptical geocentric orbits . The satellites passed through the magnetosphere and into the magnetosheath during each orbit. The instruments onboard included an electric field antenna and a fluxgate magnetometer.

B. ORBIT_INFORMATION:
The ISEE-1 satellite was launched into an orbit with an apogee of 23.2 earth radii, an inclination of 28.8 degrees, and a period of 57 hours. The satellite spun about an axis perpendicular to the ecliptic plane at about 19.7 revolutions per minute. Re-entry occurred on September 26, 1987.

C. PERFORMANCE:
This experiment showed no anomalies in the main body package during its lifetime. One of the two analogue preamplifiers suffered an anomaly in mid 1984 which impacted the performance of the experiment in low density plasma regions. During the period of archived data, 1977 - 1983, this was not a problem. The experiment shared long antennas with an AC wave experiment (U. of Iowa) and a r. f. sounder (U. of Paris, Harvey). The impact of this sharing of the antennas with the r. f. sounder is discussed further in the section on data set quality.

INVESTIGATION_OBJECTIVES:
A primary objective of the International Sun-Earth Explorer program was the comparison of measurements of the magnetosphere taken by ISEE-1 and ISEE-2 in an attempt to resolve the space-time ambiguity that arises when measurements are made by only one spacecraft on a thin, moving boundary. Mechanisms for the

INTERNATION SUN-EARTH EXPORER 1 (ISEE-1) DATA ARCHIVE

High resolution electric and magnetic field components with the induced field computed from the Russell magnetometer data. The data are averaged over a spin period (approximately 3 seconds) and are written in ASCII.

OPERATING SYSTEM: MICROVMS 4.7 and 5.4
COMPUTER SYSTEM: MICRO VAX II
TECHNICAL CONTACT: JUDY JOHNSON, CODE 696, BLDG 2, ROOM 234
GODDARD SPACE FLIGHT CENTER, GREENBELT, MD 20771
(301) 286-4888, ELDYN::U6JAJ

SCIENTIFIC CONTACT: DR. T. AGGSON, CODE 696, BLDG 2, ROOM 203
GODDARD SPACE FLIGHT CENTER, GREENBELT, MD 20771
(301) 286-5726

PERIOD COVERED: 1977-11-10 TO 1979-12-30
FILE TIME COVERAGE (data gaps may occur):

001	NOV10771309.DAT	1977-11-10T13:09:52	1977-11-10T15:09:57
002	NOV20770000.DAT	1977-11-20T00:00:26	1977-11-20T01:58:57
003	NOV22771042.DAT	1977-11-22T10:42:47	1977-11-22T21:58:58
004	NOV24771941.DAT	1977-11-24T19:41:16	1977-11-24T23:58:59
005	NOV27770531.DAT	1977-11-27T05:31:02	1977-11-27T13:39:30
006	DEC04770907.DAT	1977-12-04T09:07:27	1977-12-04T19:58:59
007	DEC06771836.DAT	1977-12-06T18:36:59	1977-12-06T23:59:58
008	DEC09770450.DAT	1977-12-09T04:50:28	1977-12-09T13:15:58
009	DEC10772000.DAT	1977-12-10T20:00:17	1977-12-10T23:59:59
010	DEC18771743.DAT	1977-12-18T17:43:55	1977-12-18T23:08:58
011	DEC19770021.DAT	1977-12-19T00:21:32	1977-12-19T04:00:15
012	DEC20770811.DAT	1977-12-20T08:11:19	1977-12-20T16:01:58
013	DEC21770202.DAT	1977-12-21T02:02:01	1977-12-21T12:28:57
014	DEC26770009.DAT	1977-12-26T00:09:59	1977-12-26T07:02:59
015	DEC28770755.DAT	1977-12-28T07:55:54	1977-12-28T16:48:57
016	DEC30771647.DAT	1977-12-30T16:47:30	1977-12-30T23:59:59
017	JAN04781603.DAT	1978-01-04T16:03:16	1978-01-04T20:08:57
018	JAN06781934.DAT	1978-01-06T19:34:02	1978-01-06T23:28:22
019	JAN07780331.DAT	1978-01-07T03:31:42	1978-01-07T05:34:58
020	JAN09780651.DAT	1978-01-09T06:51:07	1978-01-09T14:39:59
021	JAN11781441.DAT	1978-01-11T14:41:14	1978-01-11T23:59:59
022	JAN14780423.DAT	1978-01-14T04:23:07	1978-01-14T08:04:59
023	JAN30781944.DAT	1978-01-30T19:44:50	1978-01-30T23:13:14
024	JAN31780012.DAT	1978-01-31T00:12:01	1978-01-31T01:59:58
025	FEB02780322.DAT	1978-02-02T03:22:05	1978-02-02T13:11:59
026	FEB04781140.DAT	1978-02-04T11:40:59	1978-02-04T20:58:32
027	FEB12780014.DAT	1978-02-12T00:14:05	1978-02-12T03:48:58
028	FEB14780404.DAT	1978-02-14T04:04:02	1978-02-14T10:34:17
029	FEB15780935.DAT	1978-02-15T09:35:51	1978-02-15T13:42:22
030	FEB16781300.DAT	1978-02-16T13:49:09	1978-02-16T20:59:58
031	FEB26780153.DAT	1978-02-26T01:53:21	1978-02-26T10:01:59
032	FEB28781153.DAT	1978-02-28T11:53:51	1978-02-28T19:50:57
033	MAR02782142.DAT	1978-03-02T21:42:26	1978-03-02T23:36:58
034	MAR03780208.DAT	1978-03-03T02:08:52	1978-03-03T03:19:58
035	MAR05780647.DAT	1978-03-05T06:47:17	1978-03-05T15:06:59
036	MAR07781523.DAT	1978-03-07T15:23:53	1978-03-07T22:33:57
037	MAR10780053.DAT	1978-03-10T00:53:05	1978-03-10T08:31:59
038	MAR12781042.DAT	1978-03-12T10:42:26	1978-03-12T18:29:58
039	MAR14782050.DAT	1978-03-14T20:50:20	1978-03-14T22:59:59

040	MAR17780428.DAT	1978-03-17T04:28:03	1978-03-17T13:35:59
041	MAR19781519.DAT	1978-03-19T15:19:00	1978-03-19T21:29:59
042	MAR22780020.DAT	1978-03-22T00:20:04	1978-03-22T07:34:58
043	MAR24780940.DAT	1978-03-24T09:40:37	1978-03-24T16:59:57
044	MAR26781629.DAT	1978-03-26T16:29:21	1978-03-26T21:21:58
045	MAR26781956.DAT	1978-03-26T19:56:01	1978-03-26T23:36:33
046	MAR27780018.DAT	1978-03-27T00:18:07	1978-03-27T00:59:57
047	MAR29780524.DAT	1978-03-29T05:24:02	1978-03-29T12:47:58
048	MAR31781401.DAT	1978-03-31T14:01:48	1978-03-31T23:50:57
049	APR02782116.DAT	1978-04-02T21:16:56	1978-04-02T23:00:01
050	APR03780000.DAT	1978-04-03T00:00:39	1978-04-03T05:59:59
051	APR05780908.DAT	1978-04-05T09:08:57	1978-04-05T17:30:59
052	APR07781829.DAT	1978-04-07T18:29:50	1978-04-07T23:59:57
053	APR10780417.DAT	1978-04-10T04:17:02	1978-04-10T12:00:59
054	APR12781254.DAT	1978-04-12T12:54:14	1978-04-12T17:30:57
055	APR17780752.DAT	1978-04-17T07:52:57	1978-04-17T15:03:58
056	APR19781700.DAT	1978-04-19T17:00:12	1978-04-19T23:59:59
057	APR24781221.DAT	1978-04-24T12:21:56	1978-04-24T18:12:58
058	APR26782109.DAT	1978-04-26T21:09:04	1978-04-26T23:59:59
059	APR27780049.DAT	1978-04-27T00:49:26	1978-04-27T03:43:59
060	APR29780639.DAT	1978-04-29T06:39:41	1978-04-29T14:21:58
061	MAY01781528.DAT	1978-05-01T15:28:34	1978-05-01T21:52:59
062	MAY04780100.DAT	1978-05-04T01:00:01	1978-05-04T08:38:58
063	MAY06781045.DAT	1978-05-06T10:45:04	1978-05-06T18:39:58
064	MAY09780030.DAT	1978-05-09T00:30:42	1978-05-09T03:25:56
065	MAY13781454.DAT	1978-05-13T14:54:02	1978-05-13T21:49:59
066	MAY16780000.DAT	1978-05-16T00:00:10	1978-05-16T07:21:57
067	MAY20781826.DAT	1978-05-20T18:26:08	1978-05-20T23:59:58
068	MAY23780359.DAT	1978-05-23T03:59:14	1978-05-23T11:54:59
069	MAY25781343.DAT	1978-05-25T13:43:03	1978-05-25T19:08:58
070	MAY30780756.DAT	1978-05-30T07:56:57	1978-05-30T15:58:57
071	JUN01781524.DAT	1978-06-01T15:24:57	1978-06-01T23:13:59
072	JUN04780242.DAT	1978-06-04T02:42:25	1978-06-04T11:20:59
073	JUN06781112.DAT	1978-06-06T11:12:29	1978-06-06T20:45:57
074	JUN08782024.DAT	1978-06-08T20:24:18	1978-06-08T23:59:57
075	JUN09780000.DAT	1978-06-09T00:00:06	1978-06-09T06:00:58
076	JUN13781428.DAT	1978-06-13T14:28:01	1978-06-13T23:23:56
077	JUN18781129.DAT	1978-06-18T11:29:06	1978-06-18T17:18:57
078	JUN20782040.DAT	1978-06-20T20:40:02	1978-06-20T23:41:00
079	JUN21780057.DAT	1978-06-21T00:57:00	1978-06-21T03:56:58
080	JUN28780031.DAT	1978-06-28T00:31:21	1978-06-28T09:02:58
081	JUN30780913.DAT	1978-06-30T09:13:04	1978-06-30T16:12:58
082	JUL02781901.DAT	1978-07-02T19:01:39	1978-07-02T23:59:58
083	JUL03780000.DAT	1978-07-03T00:00:13	1978-07-03T03:14:59
084	JUL05780357.DAT	1978-07-05T03:57:23	1978-07-05T13:54:59
085	JUL07781408.DAT	1978-07-07T14:08:49	1978-07-07T20:52:57
086	JUL10780005.DAT	1978-07-10T00:05:02	1978-07-10T07:09:57
087	JUL10780507.DAT	1978-07-10T05:07:34	1978-07-10T09:48:57
088	JUL12780856.DAT	1978-07-12T08:56:24	1978-07-12T15:49:57
089	JUL12781710.DAT	1978-07-12T17:10:14	1978-07-12T19:14:58
090	JUL14781833.DAT	1978-07-14T18:33:34	1978-07-14T23:59:59
091	JUL17780411.DAT	1978-07-17T04:11:37	1978-07-17T12:09:58
092	JUL19781200.DAT	1978-07-19T12:00:55	1978-07-19T18:30:57
093	JUL21782253.DAT	1978-07-21T22:53:13	1978-07-21T23:59:58
094	JUL22780000.DAT	1978-07-22T00:00:01	1978-07-22T06:13:59
095	JUL24780631.DAT	1978-07-24T06:31:02	1978-07-24T14:28:59
096	JUL26781658.DAT	1978-07-26T16:58:44	1978-07-26T23:58:57
097	JUL29780202.DAT	1978-07-29T02:02:09	1978-07-29T10:18:58
098	JUL31781126.DAT	1978-07-31T11:26:19	1978-07-31T16:59:59

099	AUG03780000.DAT	1978-08-03T00:00:02	1978-08-03T04:56:58
100	AUG05780548.DAT	1978-08-05T05:48:16	1978-08-05T14:38:59
101	AUG07781454.DAT	1978-08-07T14:54:09	1978-08-07T21:51:58
102	AUG08780215.DAT	1978-08-08T02:15:01	1978-08-08T05:19:57
103	AUG09780208.DAT	1978-08-09T02:08:53	1978-08-09T05:24:54
104	AUG09781839.DAT	1978-08-09T18:39:39	1978-08-09T22:06:54
105	AUG10780024.DAT	1978-08-10T00:24:06	1978-08-10T08:34:57
106	AUG12780643.DAT	1978-08-12T06:43:18	1978-08-12T08:44:59
107	AUG12780845.DAT	1978-08-12T08:45:08	1978-08-12T19:35:59
108	AUG14781916.DAT	1978-08-14T19:16:30	1978-08-14T23:59:59
109	AUG15780000.DAT	1978-08-15T00:00:02	1978-08-15T03:57:58
110	AUG17780438.DAT	1978-08-17T04:38:28	1978-08-17T13:56:57
111	AUG19781426.DAT	1978-08-19T14:26:31	1978-08-19T22:36:56
112	AUG22780054.DAT	1978-08-22T00:54:15	1978-08-22T09:10:58
113	AUG24780730.DAT	1978-08-24T07:30:00	1978-08-24T15:20:58
114	AUG27780233.DAT	1978-08-27T02:33:41	1978-08-27T02:51:56
115	AUG27780642.DAT	1978-08-27T06:42:02	1978-08-27T20:14:55
116	AUG28780322.DAT	1978-08-28T03:22:12	1978-08-28T20:35:51
117	AUG29780323.DAT	1978-08-29T03:23:02	1978-08-29T12:24:58
118	AUG31781237.DAT	1978-08-31T12:37:58	1978-08-31T18:57:57
119	SEP02782111.DAT	1978-09-02T21:11:51	1978-09-02T23:59:59
120	SEP03780050.DAT	1978-09-03T00:50:49	1978-09-03T05:14:35
121	SEP05780711.DAT	1978-09-05T07:11:54	1978-09-05T14:43:58
122	SEP10780538.DAT	1978-09-10T05:38:09	1978-09-10T10:41:57
123	SEP12781155.DAT	1978-09-12T11:55:00	1978-09-12T17:51:58
124	SEP14782059.DAT	1978-09-14T20:59:40	1978-09-14T23:59:57
125	SEP15780000.DAT	1978-09-15T00:00:03	1978-09-15T05:34:59
126	SEP17780509.DAT	1978-09-17T05:09:04	1978-09-17T13:38:58
127	SEP19781445.DAT	1978-09-19T14:45:32	1978-09-19T23:53:59
128	SEP22780058.DAT	1978-09-22T00:58:38	1978-09-22T09:24:59
129	SEP24780906.DAT	1978-09-24T09:06:16	1978-09-24T16:24:57
130	SEP25780640.DAT	1978-09-25T06:40:33	1978-09-25T14:24:47
131	SEP26780000.DAT	1978-09-26T00:00:03	1978-09-26T14:47:57
132	SEP26781448.DAT	1978-09-26T14:48:46	1978-09-26T18:26:59
133	SEP26781955.DAT	1978-09-26T19:55:45	1978-09-26T23:45:19
134	SEP27780043.DAT	1978-09-27T00:43:58	1978-09-27T04:26:57
135	SEP29780342.DAT	1978-09-29T03:42:36	1978-09-29T12:06:57
136	OCT01781427.DAT	1978-10-01T14:27:18	1978-10-01T22:43:58
137	OCT04780114.DAT	1978-10-04T01:14:00	1978-10-04T13:43:59
138	OCT08781758.DAT	1978-10-08T17:58:03	1978-10-08T23:59:58
139	OCT09780000.DAT	1978-10-09T00:00:10	1978-10-09T03:53:57
140	OCT11780148.DAT	1978-10-11T01:48:29	1978-10-11T10:13:58
141	OCT13781325.DAT	1978-10-13T13:25:02	1978-10-13T21:35:57
142	OCT23780206.DAT	1978-10-23T02:06:03	1978-10-23T07:59:59
143	OCT23781232.DAT	1978-10-23T12:32:05	1978-10-23T14:31:57
144	OCT28780018.DAT	1978-10-28T00:18:17	1978-10-28T06:24:58
145	OCT30780553.DAT	1978-10-30T05:53:07	1978-10-30T13:36:58
146	NOV01781447.DAT	1978-11-01T14:47:38	1978-11-01T23:39:02
147	NOV04780139.DAT	1978-11-04T01:39:03	1978-11-04T08:27:57
148	NOV06781059.DAT	1978-11-06T10:59:14	1978-11-06T18:19:57
149	NOV08780024.DAT	1978-11-08T00:24:27	1978-11-08T06:23:46
150	NOV08781859.DAT	1978-11-08T18:59:32	1978-11-08T23:59:36
151	NOV09780000.DAT	1978-11-09T00:00:01	1978-11-09T01:50:15
152	NOV11780522.DAT	1978-11-11T05:22:46	1978-11-11T12:47:59
153	NOV13781309.DAT	1978-11-13T13:09:07	1978-11-13T23:13:58
154	NOV16780048.DAT	1978-11-16T00:48:07	1978-11-16T07:41:59
155	NOV18780934.DAT	1978-11-18T09:34:20	1978-11-18T16:05:58
156	NOV27782305.DAT	1978-11-27T23:05:04	1978-11-27T23:15:00
157	NOV28780040.DAT	1978-11-28T00:40:02	1978-11-28T06:38:57

158	NOV30780826.DAT	1978-11-30T08:26:53	1978-11-30T14:49:58
159	DEC02781753.DAT	1978-12-02T17:53:00	1978-12-02T24:00:00
160	DEC03780000.DAT	1978-12-03T00:00:00	1978-12-03T03:06:00
161	DEC05780134.DAT	1978-12-05T01:34:00	1978-12-05T08:20:00
162	DEC07781254.DAT	1978-12-07T12:54:00	1978-12-07T21:11:00
163	DEC09782004.DAT	1978-12-09T20:04:00	1978-12-09T24:00:00
164	DEC10780000.DAT	1978-12-10T00:00:00	1978-12-10T05:39:00
165	DEC12780639.DAT	1978-12-12T06:39:00	1978-12-12T13:48:00
166	DEC14780239.DAT	1978-12-14T02:39:00	1978-12-14T14:52:00
167	DEC15780301.DAT	1978-12-15T03:01:00	1978-12-15T05:00:00
168	DEC17780303.DAT	1978-12-17T03:03:00	1978-12-17T07:43:00
169	DEC19781217.DAT	1978-12-19T12:17:06	1978-12-19T20:51:00
170	DEC21782010.DAT	1978-12-21T20:10:00	1978-12-21T24:00:00
171	DEC22780000.DAT	1978-12-22T00:00:00	1978-12-22T03:33:00
172	DEC24780428.DAT	1978-12-24T04:28:00	1978-12-24T12:31:00
173	DEC26781500.DAT	1978-12-26T15:00:00	1978-12-26T24:00:00
174	DEC28782038.DAT	1978-12-28T20:38:00	1978-12-28T22:15:00
175	DEC29780108.DAT	1978-12-29T01:08:00	1978-12-29T06:32:00
176	DEC31780942.DAT	1978-12-31T09:42:00	1978-12-31T17:41:00
177	JAN02791852.DAT	1979-01-02T18:52:00	1979-01-02T24:00:00
178	JAN03790140.DAT	1979-01-03T01:40:00	1979-01-03T01:55:00
179	JAN05790533.DAT	1979-01-05T05:33:00	1979-01-05T10:24:00
180	JAN07791425.DAT	1979-01-07T14:25:00	1979-01-07T23:02:00
181	JAN10790014.DAT	1979-01-10T00:14:00	1979-01-10T05:11:00
182	JAN12790915.DAT	1979-01-12T09:15:00	1979-01-12T16:28:00
183	JAN14791749.DAT	1979-01-14T17:49:00	1979-01-14T24:00:00
184	JAN15790000.DAT	1979-01-15T00:00:00	1979-01-15T00:54:00
185	JAN17790236.DAT	1979-01-17T02:36:00	1979-01-17T09:13:00
186	JAN19791254.DAT	1979-01-19T12:54:00	1979-01-19T20:53:00
187	JAN22790000.DAT	1979-01-22T00:00:00	1979-01-22T04:41:00
188	JAN24790813.DAT	1979-01-24T08:13:00	1979-01-24T14:24:00
189	JAN26791703.DAT	1979-01-26T17:03:00	1979-01-26T24:00:00
190	JAN29790344.DAT	1979-01-29T03:44:00	1979-01-29T07:45:00
191	JAN31791157.DAT	1979-01-31T11:57:00	1979-01-31T19:11:00
192	JAN31790859.DAT	1979-01-31T08:59:00	1979-01-31T15:51:00
193	FEB02792215.DAT	1979-02-02T22:15:00	1979-02-02T24:00:00
194	FEB03790013.DAT	1979-02-03T00:13:00	1979-02-03T03:02:00
195	FEB05790708.DAT	1979-02-05T07:08:00	1979-02-05T13:59:00
196	FEB07791631.DAT	1979-02-07T16:31:00	1979-02-07T24:00:00
197	FEB10790101.DAT	1979-02-10T01:01:00	1979-02-10T06:13:00
198	FEB12791100.DAT	1979-02-12T11:00:00	1979-02-12T18:00:00
199	FEB14792230.DAT	1979-02-14T22:30:00	1979-02-14T24:00:00
200	FEB15790015.DAT	1979-02-15T00:15:00	1979-02-15T02:52:00
201	FEB17790546.DAT	1979-02-17T05:46:00	1979-02-17T11:32:00
202	FEB19791438.DAT	1979-02-19T14:38:00	1979-02-19T23:34:00
203	FEB21790000.DAT	1979-02-21T00:00:00	1979-02-21T03:11:00
204	FEB22790157.DAT	1979-02-22T01:57:00	1979-02-22T05:30:00
205	FEB24791014.DAT	1979-02-24T10:14:00	1979-02-24T18:11:00
206	FEB26792020.DAT	1979-02-26T20:20:00	1979-02-26T24:00:00
207	MAR01790345.DAT	1979-03-01T03:45:00	1979-03-01T12:30:00
208	MAR03791315.DAT	1979-03-03T13:15:00	1979-03-03T21:03:00
209	MAR06790318.DAT	1979-03-06T03:18:00	1979-03-06T03:58:00
210	MAR08790859.DAT	1979-03-08T08:59:00	1979-03-08T16:19:00
211	MAR10791951.DAT	1979-03-10T19:51:00	1979-03-10T23:57:00
212	MAR10790917.DAT	1979-03-10T09:17:00	1979-03-10T14:04:00
213	MAR13790129.DAT	1979-03-13T01:29:00	1979-03-13T09:17:00
214	MAR15791054.DAT	1979-03-15T10:54:00	1979-03-15T19:52:00
215	MAR18790117.DAT	1979-03-18T01:17:00	1979-03-18T03:40:00
216	MAR20790720.DAT	1979-03-20T07:20:00	1979-03-20T14:45:00

217	MAR22791856.DAT	1979-03-22T18:56:00	1979-03-22T21:32:00
218	MAR22790502.DAT	1979-03-22T05:02:00	1979-03-22T16:07:00
219	MAR25790248.DAT	1979-03-25T02:48:00	1979-03-25T08:12:00
220	MAR27791129.DAT	1979-03-27T11:29:00	1979-03-27T18:31:00
221	MAR30790001.DAT	1979-03-30T00:01:00	1979-03-30T02:18:00
222	APR01790650.DAT	1979-04-01T06:50:00	1979-04-01T13:20:00
223	APR03791817.DAT	1979-04-03T18:17:00	1979-04-03T22:44:00
224	APR05790026.DAT	1979-04-05T00:26:00	1979-04-05T02:04:00
225	APR05790105.DAT	1979-04-05T01:05:00	1979-04-05T03:50:00
226	APR06790153.DAT	1979-04-06T01:53:00	1979-04-06T06:41:00
227	APR08791056.DAT	1979-04-08T10:56:00	1979-04-08T16:57:00
228	APR10792010.DAT	1979-04-10T20:10:00	1979-04-10T23:44:00
229	APR11790005.DAT	1979-04-11T00:05:00	1979-04-11T05:20:00
230	APR13790544.DAT	1979-04-13T05:44:00	1979-04-13T13:18:00
231	APR20790811.DAT	1979-04-20T08:11:00	1979-04-20T16:24:00
232	APR22791830.DAT	1979-04-22T18:30:00	1979-04-22T23:56:00
233	APR25790354.DAT	1979-04-25T03:54:00	1979-04-25T11:15:00
234	MAY07790328.DAT	1979-05-07T03:28:00	1979-05-07T11:15:00
235	MAY09791515.DAT	1979-05-09T15:15:00	1979-05-09T18:21:00
236	MAY11792154.DAT	1979-05-11T21:54:00	1979-05-11T24:00:00
237	MAY12790000.DAT	1979-05-12T00:00:00	1979-05-12T04:30:00
238	MAY14790508.DAT	1979-05-14T05:08:00	1979-05-14T14:02:00
239	MAY16791822.DAT	1979-05-16T18:22:00	1979-05-16T21:42:00
240	MAY19790109.DAT	1979-05-19T01:09:00	1979-05-19T09:11:00
241	MAY21791301.DAT	1979-05-21T13:01:00	1979-05-21T17:38:00
242	MAY23792127.DAT	1979-05-23T21:27:00	1979-05-23T23:48:00
243	MAY24790028.DAT	1979-05-24T00:28:00	1979-05-24T03:03:00
244	MAY26790509.DAT	1979-05-26T05:09:00	1979-05-26T14:00:00
245	MAY28791824.DAT	1979-05-28T18:24:00	1979-05-28T20:28:00
246	MAY29791659.DAT	1979-05-29T16:59:00	1979-05-29T19:06:00
247	MAY29791804.DAT	1979-05-29T18:04:00	1979-05-29T20:05:00
248	MAY31790038.DAT	1979-05-31T03:28:00	1979-05-31T08:05:00
249	JUN02791241.DAT	1979-06-02T12:41:00	1979-06-02T16:54:00
250	JUN04791945.DAT	1979-06-04T19:45:00	1979-06-04T24:00:00
251	JUN06791853.DAT	1979-06-06T18:53:00	1979-06-06T20:00:00
252	JUN07790336.DAT	1979-06-07T03:36:00	1979-06-07T12:25:00
253	JUN09791558.DAT	1979-06-09T15:58:00	1979-06-09T19:25:00
254	JUN12790056.DAT	1979-06-12T00:56:00	1979-06-12T08:25:00
255	JUN14791018.DAT	1979-06-14T10:18:00	1979-06-14T16:46:00
256	JUN16791857.DAT	1979-06-16T18:57:00	1979-06-16T23:09:00
257	JUN19790304.DAT	1979-06-19T03:04:00	1979-06-19T11:16:00
258	JUN21791527.DAT	1979-06-21T15:27:00	1979-06-21T18:25:00
259	JUN24790000.DAT	1979-06-24T00:00:00	1979-06-24T07:10:00
260	JUN26790925.DAT	1979-06-26T09:25:00	1979-06-26T16:09:00
261	JUN28792014.DAT	1979-06-28T20:14:00	1979-06-28T22:14:00
262	JUL01790231.DAT	1979-07-01T02:31:00	1979-07-01T10:40:00
263	JUL03791400.DAT	1979-07-03T14:00:00	1979-07-03T16:45:00
264	JUL05792010.DAT	1979-07-05T20:10:00	1979-07-05T24:00:00
265	JUL06790000.DAT	1979-07-06T00:00:00	1979-07-06T05:14:00
266	JUL08790839.DAT	1979-07-08T08:39:00	1979-07-08T14:22:00
267	JUL10791852.DAT	1979-07-10T18:52:00	1979-07-10T21:36:00
268	JUL13790026.DAT	1979-07-13T00:26:00	1979-07-13T09:06:00
269	JUL15791312.DAT	1979-07-15T13:12:00	1979-07-15T15:42:00
270	JUL17791915.DAT	1979-07-17T19:15:00	1979-07-17T24:00:00
271	JUL18790023.DAT	1979-07-18T00:23:00	1979-07-18T04:14:00
272	JUL20790640.DAT	1979-07-20T06:40:00	1979-07-20T13:33:00
273	JUL22791728.DAT	1979-07-22T17:28:00	1979-07-22T19:38:00
274	JUL25790000.DAT	1979-07-25T00:00:00	1979-07-25T08:39:00
275	JUL27791055.DAT	1979-07-27T10:55:00	1979-07-27T15:05:00

276	JUL29791817.DAT	1979-07-29T18:17:00	1979-07-29T24:00:00
277	JUL30790134.DAT	1979-07-30T01:34:00	1979-07-30T07:38:00
278	JUL30790000.DAT	1979-07-30T00:00:00	1979-07-30T01:33:00
279	AUG01790439.DAT	1979-08-01T04:39:00	1979-08-01T13:19:00
280	AUG05792238.DAT	1979-08-05T22:38:00	1979-08-05T24:00:00
281	AUG06790000.DAT	1979-08-06T00:00:00	1979-08-06T07:08:00
282	AUG08791029.DAT	1979-08-08T10:29:00	1979-08-08T14:54:00
283	AUG10791705.DAT	1979-08-10T17:05:00	1979-08-10T24:00:00
284	AUG11790000.DAT	1979-08-11T00:00:00	1979-08-11T01:55:00
285	AUG12791828.DAT	1979-08-12T18:28:00	1979-08-12T21:36:00
286	AUG13790237.DAT	1979-08-13T02:37:00	1979-08-13T06:55:00
287	AUG15791059.DAT	1979-08-15T10:59:00	1979-08-15T17:37:00
288	AUG17792109.DAT	1979-08-17T21:09:00	1979-08-17T24:00:00
289	AUG20790931.DAT	1979-08-20T09:31:00	1979-08-20T13:54:00
290	AUG22791618.DAT	1979-08-22T16:18:00	1979-08-22T24:00:00
291	AUG25790026.DAT	1979-08-25T00:26:00	1979-08-25T10:05:00
292	AUG27791331.DAT	1979-08-27T13:31:00	1979-08-27T15:57:00
293	AUG29791931.DAT	1979-08-29T19:31:00	1979-08-29T24:00:00
294	AUG30790043.DAT	1979-08-30T00:43:00	1979-08-30T04:44:00
295	SEP01790739.DAT	1979-09-01T07:39:00	1979-09-01T13:23:00
296	SEP03791322.DAT	1979-09-03T13:22:00	1979-09-03T23:12:00
297	SEP06790000.DAT	1979-09-06T00:00:00	1979-09-06T10:09:00
298	SEP10791922.DAT	1979-09-10T19:22:00	1979-09-10T22:36:00
299	SEP11790013.DAT	1979-09-11T00:13:00	1979-09-11T04:12:00
300	SEP11790213.DAT	1979-09-11T02:13:00	1979-09-11T05:14:00
301	SEP13790615.DAT	1979-09-13T06:15:00	1979-09-13T14:00:00
302	SEP15791355.DAT	1979-09-15T13:55:00	1979-09-15T21:46:00
303	SEP17792226.DAT	1979-09-17T22:26:00	1979-09-17T24:00:00
304	SEP18790000.DAT	1979-09-18T00:00:00	1979-09-18T07:04:00
305	SEP20791111.DAT	1979-09-20T11:11:00	1979-09-20T14:30:00
306	SEP22791642.DAT	1979-09-22T16:42:00	1979-09-22T24:00:00
307	SEP23790000.DAT	1979-09-23T00:00:00	1979-09-23T01:56:00
308	SEP25790523.DAT	1979-09-25T05:23:00	1979-09-25T11:55:00
309	SEP27791040.DAT	1979-09-27T10:40:00	1979-09-27T18:17:00
310	SEP29792114.DAT	1979-09-29T21:14:00	1979-09-29T24:00:00
311	SEP30790000.DAT	1979-09-30T00:00:00	1979-09-30T06:12:00
312	OCT04791608.DAT	1979-10-04T16:08:00	1979-10-04T24:00:00
313	OCT07790439.DAT	1979-10-07T04:39:00	1979-10-07T10:41:00
314	OCT07790115.DAT	1979-10-07T01:15:00	1979-10-07T03:00:00
315	OCT09791035.DAT	1979-10-09T10:35:00	1979-10-09T18:18:00
316	OCT09790453.DAT	1979-10-09T04:53:00	1979-10-09T12:06:00
317	OCT11792043.DAT	1979-10-11T20:43:00	1979-10-11T24:00:00
318	OCT12790000.DAT	1979-10-12T00:00:00	1979-10-12T05:05:00
319	OCT16791546.DAT	1979-10-16T15:46:00	1979-10-16T23:27:00
320	OCT19790333.DAT	1979-10-19T03:33:00	1979-10-19T08:36:00
321	OCT21790955.DAT	1979-10-21T09:55:00	1979-10-21T16:05:00
322	OCT23791843.DAT	1979-10-23T18:43:00	1979-10-23T23:35:00
323	OCT24790019.DAT	1979-10-24T00:19:00	1979-10-24T04:01:00
324	OCT26790823.DAT	1979-10-26T08:23:00	1979-10-26T11:16:00
325	OCT28791359.DAT	1979-10-28T13:59:00	1979-10-28T22:42:00
326	OCT31790241.DAT	1979-10-31T02:41:00	1979-10-31T08:15:00
327	NOV02790918.DAT	1979-11-02T09:18:00	1979-11-02T16:02:00
328	NOV04791856.DAT	1979-11-04T18:56:00	1979-11-04T24:00:00
329	NOV05790000.DAT	1979-11-05T00:00:00	1979-11-05T02:31:00
330	NOV07790134.DAT	1979-11-07T01:34:00	1979-11-07T11:53:00
331	NOV09791333.DAT	1979-11-09T13:33:00	1979-11-09T21:25:00
332	NOV11792233.DAT	1979-11-11T22:33:00	1979-11-11T24:00:00
333	NOV12790000.DAT	1979-11-12T00:00:00	1979-11-12T06:26:00
334	NOV14790818.DAT	1979-11-14T08:18:00	1979-11-14T14:48:00

335	NOV16791742.DAT	1979-11-16T17:42:00	1979-11-16T21:27:00
336	NOV17790032.DAT	1979-11-17T00:32:00	1979-11-17T01:28:00
337	NOV19790514.DAT	1979-11-19T05:14:00	1979-11-19T09:02:00
338	NOV21791213.DAT	1979-11-21T12:13:00	1979-11-21T20:13:00
339	NOV23792130.DAT	1979-11-23T21:30:00	1979-11-23T24:00:00
340	NOV24790009.DAT	1979-11-24T00:09:00	1979-11-24T05:00:00
341	NOV26790636.DAT	1979-11-26T06:36:00	1979-11-26T13:56:00
342	NOV28791557.DAT	1979-11-28T15:57:00	1979-11-28T21:59:00
343	DEC01790333.DAT	1979-12-01T03:33:00	1979-12-01T08:05:00
344	DEC03790841.DAT	1979-12-03T08:41:00	1979-12-03T18:47:00
345	DEC06790000.DAT	1979-12-06T00:00:00	1979-12-06T04:12:00
346	DEC15790946.DAT	1979-12-15T09:46:00	1979-12-15T18:04:00
347	DEC17791917.DAT	1979-12-17T19:17:00	1979-12-17T24:00:00
348	DEC18790000.DAT	1979-12-18T00:00:00	1979-12-18T02:28:00
349	DEC20790736.DAT	1979-12-20T07:36:00	1979-12-20T09:53:00
350	DEC22791156.DAT	1979-12-22T11:56:00	1979-12-22T22:28:00
351	DEC24792206.DAT	1979-12-24T22:06:00	1979-12-24T23:02:00
352	DEC25790058.DAT	1979-12-25T00:58:00	1979-12-25T04:22:00
353	DEC27790756.DAT	1979-12-27T07:56:00	1979-12-27T15:57:00
354	DEC29791839.DAT	1979-12-29T18:39:00	1979-12-29T24:00:00
355	DEC30790120.DAT	1979-12-30T01:20:00	1979-12-30T02:22:00

FORMAT OF THE HEADER RECORD:

BYTE NUMBER	CONTENTS	TYPE	VALUE RANGE	UNITS
1 - 5	'TAPE '	Character	-	-
6 - 13	Tape number	A8	ICM000 - ICM015	-
14 - 19	' FILE'	Character	-	-
20 - 24	File number	I5	0 - 99	-
31 - 34	'YEAR'	Character	-	-
35 - 38	Year	I4	77 - 79	-
45 - 54	'JULIAN DAY'	Character	-	-
55 - 59	Day of year	I5	1 - 366	-
66 - 75	'START TIME'	Character	-	-
76 - 78	Start hour	I3	0 - 23	Hours
79 - 81	Start minute	I3	0 - 59	Minutes
82 - 84	Start second	I3	0 - 59	Seconds
91 - 98	'DDOPT = '	Character	-	-
99	DD option code	I1	4	-

Record Format: 'TAPE ', A8, ' FILE', I5/ 6X, 'YEAR', I4, 6X, 'JULIAN DAY',
I5, 6X, 'START TIME', 3I3, 6X, 'DDOPT = ', I1

FORMAT OF THE DATA RECORD:

BYTE NUMBER	CONTENTS	TYPE	VALUE RANGE	UNITS
2 - 3	Hour time tag	I2	0 - 23	Hours
5 - 6	Minute time tag	I2	0 - 59	Minutes
8 - 9	Second time tag	I2	0 - 59	Seconds
11 - 13	Msec time tag	I3	0 - 999	Milliseconds
15 - 20	Electric field X component (SC)	F6.2	+/- 20	Millivolts/meter
21 - 26	Electric field Y component (SC)	F6.2	+/- 20	Millivolts/meter
28 - 35	Magnetic field X component (SC)	F8.1	+/- 4000	Nanoteslas
36 - 43	Magnetic field Y component (SC)	F8.1	+/- 4000	Nanoteslas
44 - 51	Magnetic field Z component (SC)	F8.1	+/- 4000	Nanoteslas
53 - 58	Geomagnetic local time	F6.3	0 - 23.999	Hours
60 - 66	Geomagnetic latitude	F7.3	+/- 90	Degrees
68 - 73	Amplitude error	F6.2	+/- 20	Millivolts/meter
75 - 82	AO quality index (See chart below)	F8.0	1 - 14 or 9999999.	-
84 - 89	Geocentric local time	F6.3	0 - 23.999	Hours
91 - 97	Geocentric latitude	F7.3	+/- 90	Degrees
99 - 106	X coordinate of satellite (GSE)	F8.0	10,000 - 1,000,000	Kilometers
107 - 114	Y coordinate of satellite (GSE)	F8.0	10,000 - 1,000,000	Kilometers
115 - 122	Z coordinate of satellite (GSE)	F8.0	10,000 - 1,000,000	Kilometers
123 - 128	X component of velocity (GSE)	F6.3	0 - 100,000	Km/second
129 - 134	Y component of velocity (GSE)	F6.3	0 - 100,000	Km/second
135 - 140	Z component of	F6.3	0 - 100,000	Km/second

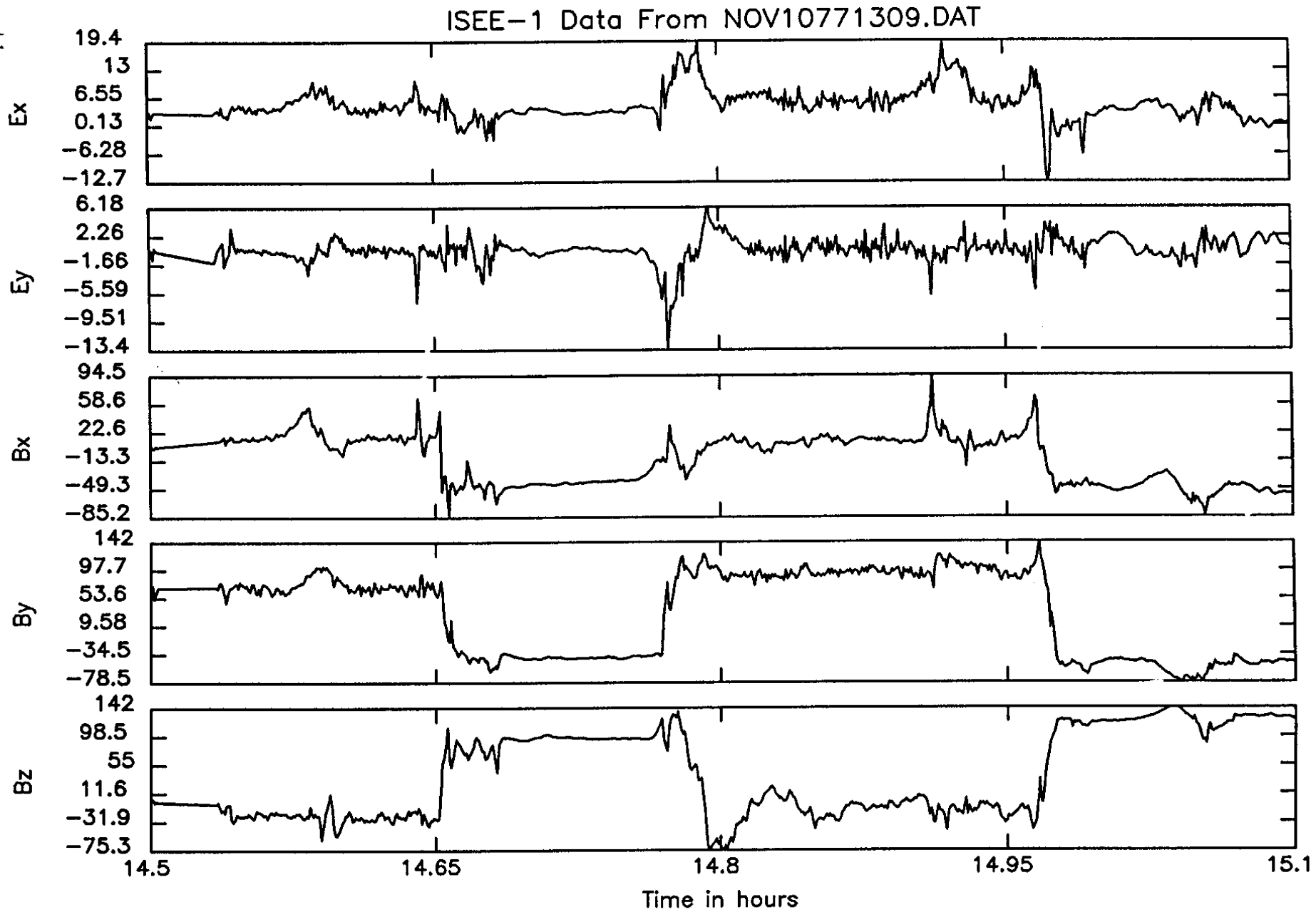
	velocity (GSE)			
141 - 146	McIlwain parameter	F6.3	0 - 23 (0 is default value)	Earth radii
148 - 155	X component of theoretical mag. field (GSE)	F8.1	+/- 4000	Nanoteslas
156 - 163	Y component of theor. B field	F8.1	+/- 4000	Nanoteslas
164 - 171	Z component of theor. B field	F8.1	+/- 4000	Nanoteslas
173 - 180	Spin period	F8.6	2 - 4	Seconds
182 - 189	Spin axis longitude	F8.3	+/- 180	Degrees
191 - 197	Spin axis latitude	F7.3	75 - 90	Degrees
198 - 205	Element (1,1) GSE to GSM transform matrix	F8.5	(row,col)	-
206 - 213	Element (1,2) GSE to GSM matrix	F8.5	(row,col)	-
214 - 221	Element (1,3) GSE to GSM matrix	F8.5	(row,col)	-
222 - 229	Element (2,1) GSE to GSM matrix	F8.5	(row,col)	-
230 - 237	Element (2,2) GSE to GSM matrix	F8.5	(row,col)	-
238 - 245	Element (2,3) GSE to GSM matrix	F8.5	(row,col)	-
246 - 253	Element (3,1) GSE to GSM matrix	F8.5	(row,col)	-
254 - 261	Element (3,2) GSE to GSM matrix	F8.5	(row,col)	-
262 - 269	Element (3,3) GSE to GSM matrix	F8.5	(row,col)	-

271	Mag. field fill flag	I1	0 or 1 (0 = fill data)	-

AO Quality Index Codes
1. Spacecraft in daylight, attitude accuracy good, spin period accuracy good
2. Spacecraft in daylight, attitude good, spin period degraded
3. Spacecraft in daylight, attitude good, spin period contains fill
4. Spacecraft in daylight, attitude degraded, spin period good
5. Spacecraft in daylight, attitude degraded, spin period degraded
6. Spacecraft in daylight, attitude degraded, spin period contains fill
7. Spacecraft in daylight, attitude contains fill, spin period good
8. Spacecraft in daylight, attitude contains fill, spin period degraded
10. Spacecraft in shadow, attitude estimated, spin period estimated
11. Spacecraft in shadow, attitude estimated, spin period contains fill
12. Spacecraft in shadow, attitude contains fill, spin period estimated
13. Event occurred; spacecraft in daylight, attitude and spin contain fill
14. Event occurred; spacecraft in shadow, attitude and spin contain fill
9999999. Attitude and spin period contain fill

Record format: 3(1X, I2), 1X, I3, 1X, 2F6.2, 1X, 3F8.1, 1X, F6.3, 1X, F7.3, 1X, F6.2/1X, F8.0, 1X, F6.3, 1X, F7.3, 1X, 3F8.0/4F6.3, 1X, 3F8.1, 1X, F8.6, 1X, F8.3, 1X, F7.3/9F8.5, 1X, I1

11 of 14 Sample file



Fx. of contamination from the Plasma Density instrument (Harvey)

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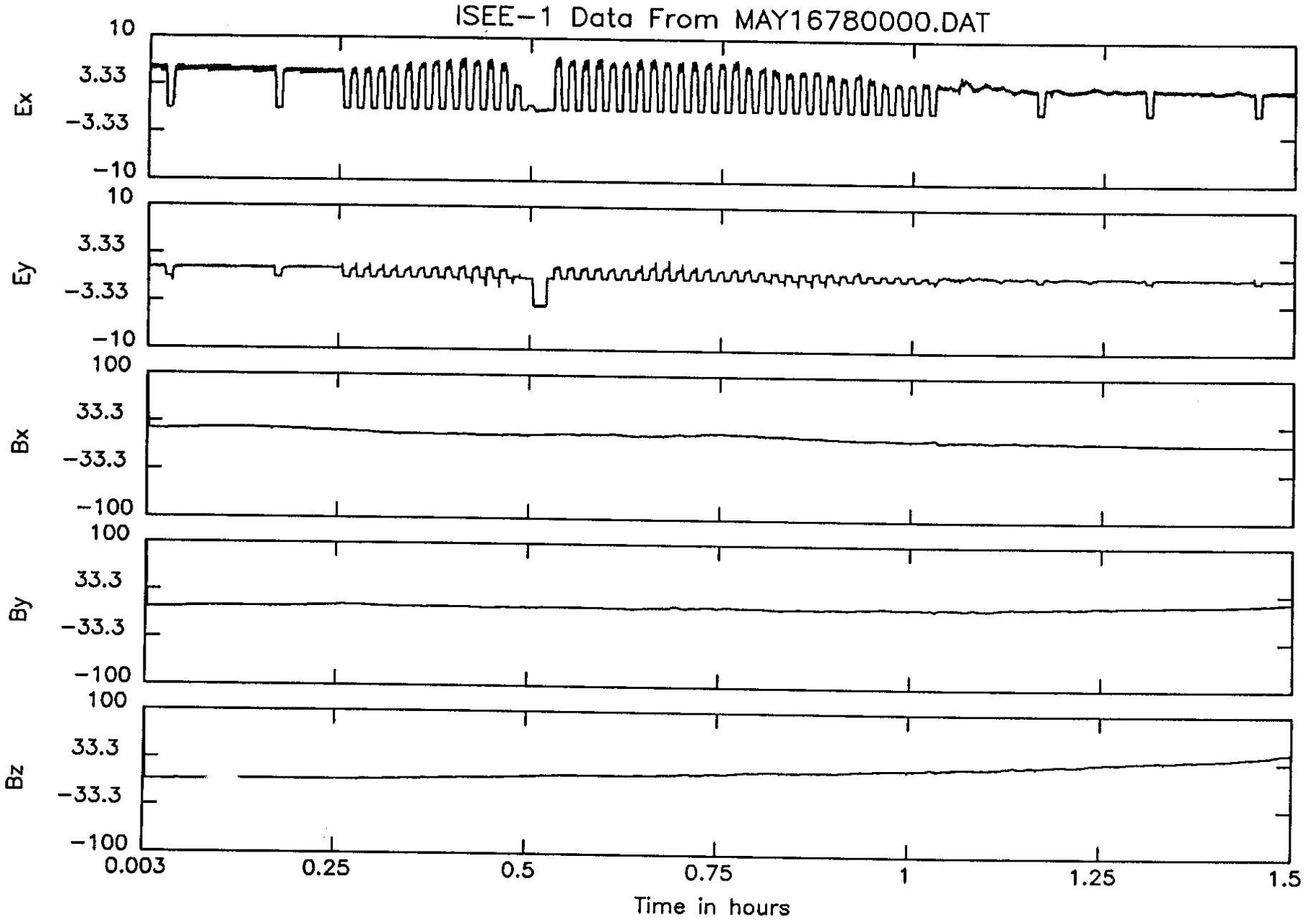
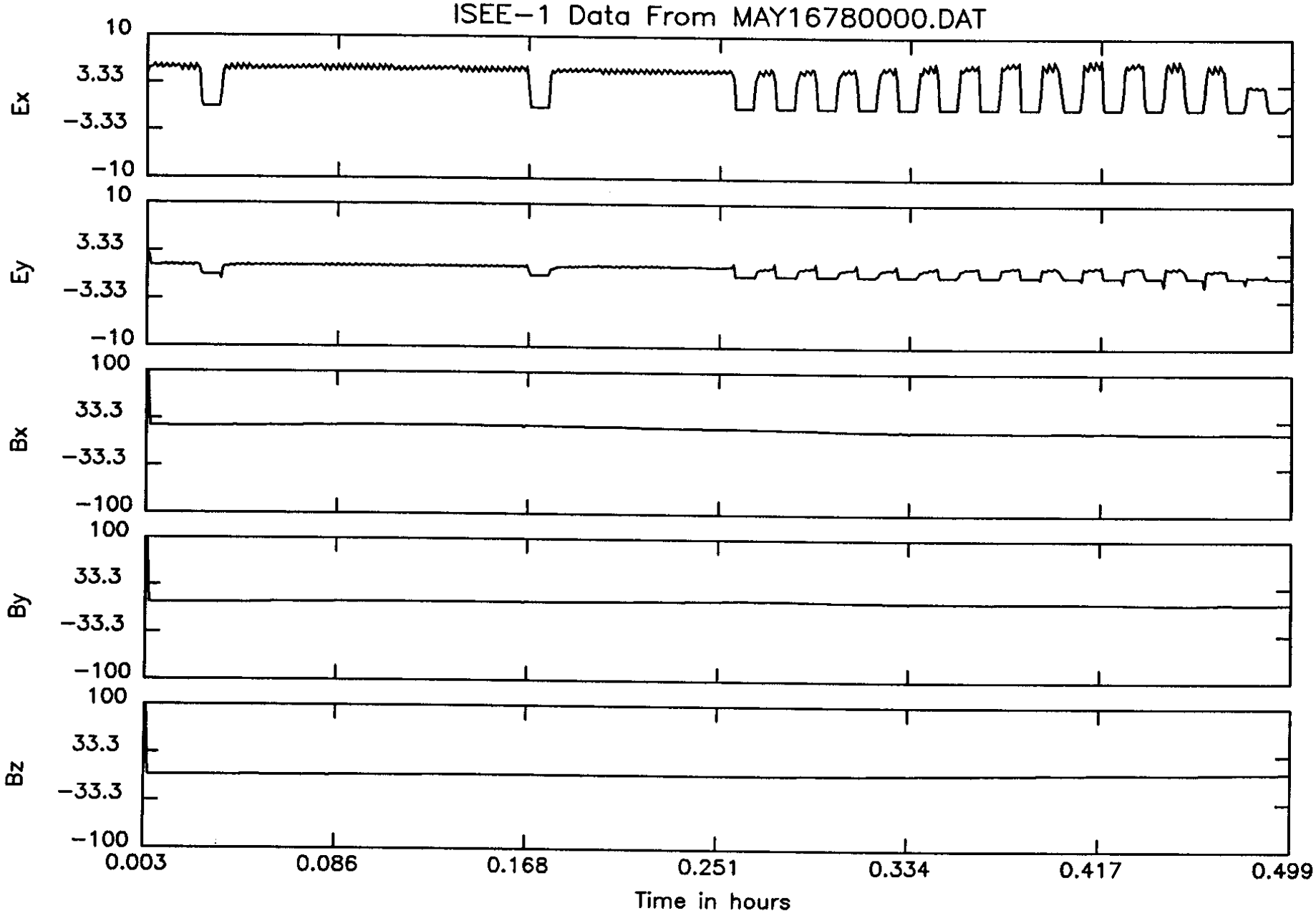


Fx. of contamination from the Plasma Density instrument (Harvey)

13 of 14



Ex. of saturation of the differential amplifier

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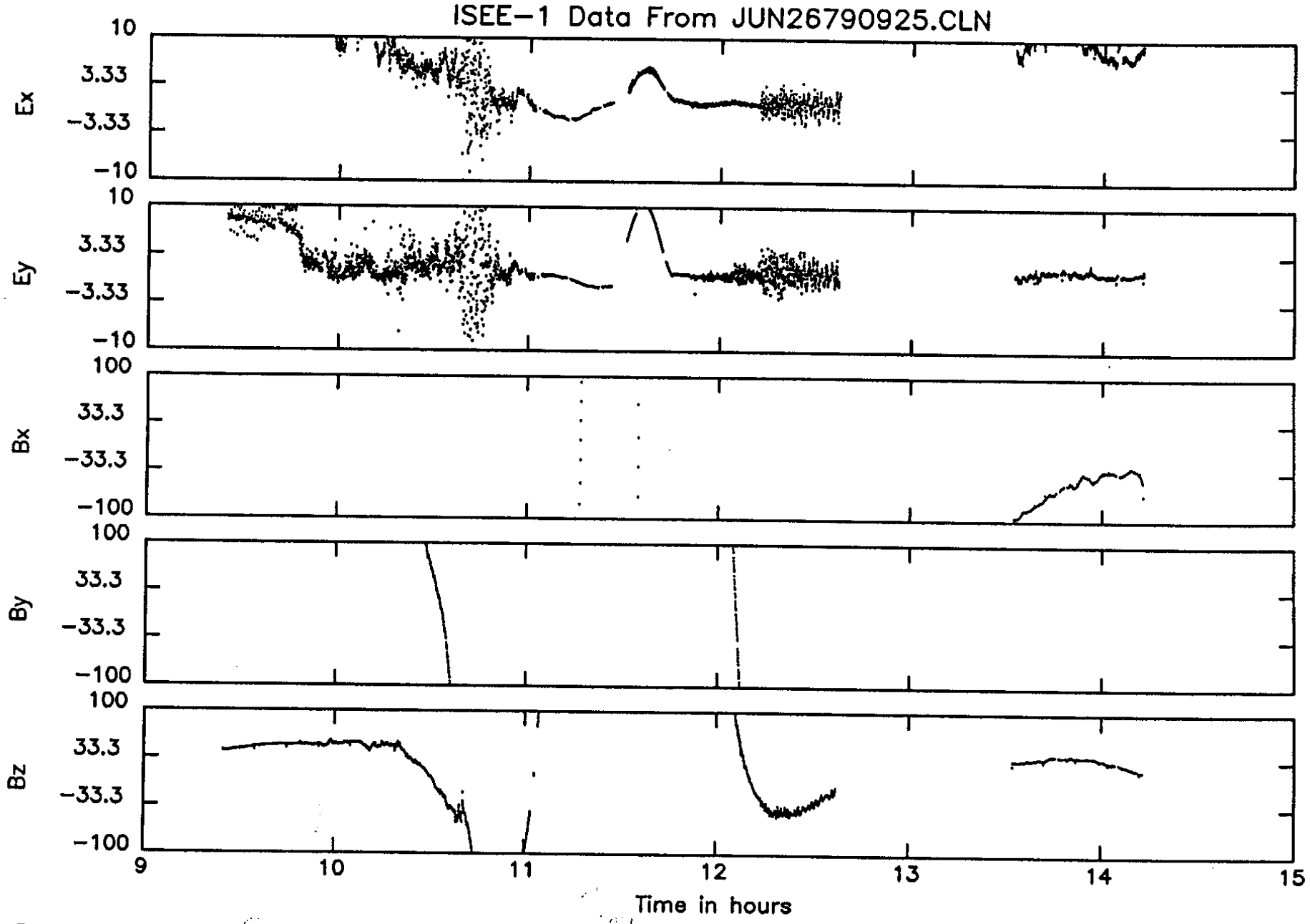

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BADLOG.SYS;1                          1/8        19-SEP-1990 11:19:26.89
BITMAP.SYS;1                         63/64       19-SEP-1990 11:19:26.89
CONFIG.SYS;1                          1/8        19-SEP-1990 11:19:32.45
CONTIN.SYS;1                          0/0        19-SEP-1990 11:19:26.89
CORIMG.SYS;1                          0/0        19-SEP-1990 11:19:26.89
INDEXF.SYS;1                       1042/3104     19-SEP-1990 11:19:26.89
ISEE.DIR;1                            1/8        19-SEP-1990 11:19:30.14
VOLSET.SYS;1                          0/0        19-SEP-1990 11:19:26.89

Total of 11 files, 1117/3232 blocks.

Directory $1$DUB2:[ISEE]

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1982.DIR;1                            1/56       19-SEP-1990 11:19:31.25
1983.DIR;1                            1/56       19-SEP-1990 11:19:31.01
FORMAT.SFD;1                         14/16       22-OCT-1990 14:34:11.00
SPARE.DIR;1                           1/56       19-SEP-1990 11:19:30.78
VOLDESC.SFD;26                       80/80        5-MAR-1992 08:37:03.42

Total of 8 files, 129/432 blocks.

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DEC18771743.DAT;1                  2835/2840     19-SEP-1990 11:41:39.48
DEC19770021.DAT;1                  2185/2192     19-SEP-1990 11:43:09.51
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DEC21770202.DAT;1                  4896/4896     19-SEP-1990 11:46:50.23
DEC26770009.DAT;1                  3257/3264     19-SEP-1990 11:49:29.98
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DEC30771647.DAT;1                  2993/3000     19-SEP-1990 11:53:30.29
NOV10771309.DAT;1                  1237/1240     19-SEP-1990 11:55:15.86
NOV20770000.DAT;1                  1159/1160     19-SEP-1990 11:56:04.09
NOV22771042.DAT;1                  4979/4984     19-SEP-1990 11:56:43.22
NOV24771941.DAT;1                  2267/2272     19-SEP-1990 11:59:14.56
NOV27770531.DAT;1                  3924/3928     19-SEP-1990 12:00:19.41

Total of 16 files, 52085/52144 blocks.

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APR19781700.DAT;1	2424/2424	21-SEP-1990	09:03:19.87
APR24781221.DAT;1	3007/3008	21-SEP-1990	09:04:41.62
APR26782109.DAT;1	1667/1672	21-SEP-1990	09:06:13.66
APR27780049.DAT;1	1375/1376	21-SEP-1990	09:07:05.54
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NOV16780048.DAT;1	2319/2320	26-SEP-1990 09:50:27.18
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OCT28780018.DAT;1	1845/1848	25-SEP-1990 13:46:31.25
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SEP10780538.DAT;1	1317/1320	25-SEP-1990 13:53:20.15
SEP12781155.DAT;1	2242/2248	25-SEP-1990 13:54:08.27
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Total of 160 files, 446689/447256 blocks.

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APR06790153.DAT;1	2712/2712	9-NOV-1990 08:50:44.54
APR08791056.DAT;1	3483/3488	9-NOV-1990 08:52:00.89
APR10792010.DAT;1	2662/2664	9-NOV-1990 08:53:38.83
APR11790005.DAT;1	2824/2824	9-NOV-1990 08:54:54.24
APR13790544.DAT;1	4058/4064	9-NOV-1990 08:56:13.61
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Grand total of 5 directories, 375 files, 1006215/1009960 blocks.
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