

#664

PROGNOZ-6

5-Minute B-Field Data (77-093A-01A)

PROGNOZ-7

5-Minute B-Field Data (78-101A-04A), 78-101A-01A

PROGNOZ-9

Hourly Solar Wind Data (83-067A-04B)

PROGNOZ-10

Hourly Solar Wind Data (85-033A-01A)

PROGNOZ-10

Hourly Avgd Energetic (85-033A-02A)

PROGNOZ-10

10-Minute B-Field (85-033A-03A)

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

REQ. AGENT

SAR

ACQ. SCIENTIST

HKH/RP

PROGNOZ-6
5-MINUTE B FIELD VECTOR
77-093A-01A

SPMS-00356

THIS DATA SET CONSISTS OF 1 MAGNETIC TAPE. THIS TAPE IS
A 1600 BPI, BINARY, MULTI-FILED, STANDARD LABELLED TAPE. THE
D AND C NUMBERS, ALONG WITH THE TIMESPANS ARE AS FOLLOWS:

PROGNOZ-6

D #	C#	FILES	TIME SPAN
D-78141	C-26716	75	09/26/77 - 01/24/78

PROGNOZ-6
5-MIN RESOLUTION

Tape and Data Description

The tape is written at 800 bpi, 9 track, binary, SL. Most of the time satellite was in the outer magnetosphere and solar wind before day-side magnetopause, the orbit is similar to that of Prognoz-7 (apogee ~ 200 000 km, perigee ~ 500 km, rotation period ~ 95 h). Prof. Sh.Sh. Dolginov (IZMIRAN) was a prime investigator. Unfortunately we have no orbit data in digital form, but looking at the magnetic field variation it is quite clear for each scientist when a satellite was in solar wind, magnetosheath and inside magnetosphere.

The tape data set spans the period September 26, 1977 - January 24, 1978. List of the intervals with data is given in the Appendix. Magnetic field was measured by SG-70 magnetometer in the range 0 ± 60 nT, instrument error is less than 0,5 nT. Five-minute averaged B_x , B_y , B_z and module AB in GSE; B_y and B_z in GSM and B_x , B_z in SM (solar-magnetic) systems are presented. Parameters B, TET, FI in GSE were computed on the bases of 5-minute averaged B_x , B_y , B_z components in GSE.

Every satellite telemetry seance constitutes file. Every file is composed from blocks of fixed length (5764 bytes). Every block is composed from 4-byte words (real) and has the following structure:

<u>Word</u>	<u>Contents</u>	
1	Block number	
2	Year	} Moscow Time
3	Month	
4	Day	
5	Hour	
6	Min	
7	B_x	} GSE
8	B_y	
9	B_z	
10	AB	
11	B	} GSE spherical
12	TET	
13	FI	
14	B_y	} GSM
15	B_z	
16	B_x	} SM
17	B_z	
.	.	
.	.	
.	.	

Words 2-17 are repeated 90 times in every block.

Appendix

"ПРОГНОЗ 6"

~~XXXXXXXXXX~~
Moscow time

№ file	begin begin	end end	begin begin	end end
1	28.09.1977y.	18 ^h 30 ^m	28.09.1977y.	18 ^h 30 ^m
2	30.09	9 45	1.10	23 01
3	3.10	19 40	5.10	20 00
4	13.10	11 30	15.10	15 45
5	15.10	17 15	19.10	15 30
6	25.10	16 45	27.10	13 45
7	31.10	15 00	4.11	9 25
8	3.11	8 50	8.11	12 00
9	8.11	18 40	12.11	14 55
10	16.11	17 05	20.11	12 40
11	24.11	12 50	28.11	9 20
12	30.11	10 35	2.12	10 25
13	2.12	13 00	6.12	11 00
14	6.12	14 20	9.12	13 10
15	14.12	8 30	15.12	9 20
16	16.12	10 00	18.12	6 20
17	19.12	21 25	22.12	6 00
18	22.12	7 35	26.12	1 10
19	29.12	9 30	29.12	15 00
20	30.12	15 45	2.01.1978y.	17 45
21	2.01.1978y.	23 50	6.01.	4 25
22	10.01	13 15	14.01	3 00
23	14.01	18 00	18.01	18 40
24	16.01	21 10	22.01	18 55
25	22.01	20 30	24.01	12 35

ОС ЕС МАТА РЕД, 5.4М 19,03,87 МЛ НДС

СПРАВКА С ВЫХОДНОЙ МЛ

МЕТ РАЖ	МЕТ РОВ	ФОР МАТ	ЗА ПУСЬ	МАКО БЛОК	МИН БЛОК	БЛОК СВ	СВ	ДОПОЛН СВЕДЕНИЯ	П/П	НАБОР ДАННЫХ	ИТОГО БАЙТОВ	СКОГДА	КО	КОНТР. СУММА
1	1	F	5764	5764	5764	6			1	PR6.SN012.SG	34584	170685	2839	138038B5
2	2	F	5764	5764	5764	7			2	PR6.SN015.SG	28828	190685	686C	299341FF
			5764	5764	5764				3	PR6.SN016.SG	40348	190685	72AB	4D713FD7
3	3	F	5764	5764	5764	8			4	PR6.SN023.SG	46112	190685	8244	AD7F1F3B
			5764	5764	5764				5	PR6.SN023.SG	74932	190685	937C	2B247E58
12	3	F	5764	5764	5764	7			6	PR6.SN031.SG	68348	190685	1098	41095D41
			5764	5764	5764				7	PR6.SN036.SG	69168	210685	1098	09922904
14	2	F	5764	5764	5764	10			8	PR6.SN039.SG	57648	210685	8830	88688857
17	3	F	5764	5764	5764	13			9	PR6.SN043.SG	74932	210685	0906	51F9982F
19	2	F	5764	5764	5764	12			10	PR6.SN048.SG	69168	210685	9795	578DC898
22	3	F	5764	5764	5764	13			11	PR6.SN053.SG	74932	210685	2F7A	AE9F8125
23	1	F	5764	5764	5764	7			12	PR6.SN060.SG	48348	220685	3568	2AF77F97
26	3	F	5764	5764	5764	13			13	PR6.SN065.SG	74932	220685	EA09	218ECB77
28	2	F	5764	5764	5764	10			14	PR6.SN066.SG	57648	220685	727C	CD46BF3A
29	1	F	5764	5764	5764	4			15	PR6.SN072.SG	23856	220685	88AD	C93F7992
30	1	F	5764	5764	5764	9			16	PR6.SN075.SG	51876	220685	1FA3	CE17D1B4
32	2	F	5764	5764	5764	8			17	PR6.SN078.SG	46112	250685	08E8	C88E13FE
35	3	F	5764	5764	5764	13			18	PR6.SN080.SG	74932	250685	FF24	JCAAC38E
			5764	5764	5764				19	PR6.SN086.SG	5764	250685	6C61	A889C986
37	2	F	5764	5764	5764	10			20	PR6.SN089.SG	57648	250685	E93C	284BC2F7
39	2	F	5764	5764	5764	11			21	PR6.SN092.SG	63484	260685	967E	18D38EAD
42	3	F	5764	5764	5764	12			22	PR6.SN100.SG	69168	260685	9803	8D5E955D
44	2	F	5764	5764	5764	13			23	PR6.SN103.SG	74932	260685	9725	D47A435F
47	3	F	5764	5764	5764	12			24	PR6.SN108.SG	69168	260685	F610	547AA26A
48	1	F	5764	5764	5764	4			25	PR6.SN113.SG	23856	260685	98FA	A896386C

ИТОГО БЛОКОВ.....410 (ВКЛЮЧАЯ МАРКИ)

БАЙТОВ.....1351892

МЕТРОВ.....40 (32 БАЙТ/ММ)

КОНТРОЛЬНАЯ СУММА...9D41, С УЧЕТОМ МЕТКИ D3F7

| 78-101A-01A

DUMP OF TAPE SOUT1A

Program 6
D78141

INPUT TAPE SOUT1A ON HT1
DATA INPUT H9 NF 74 SR 2 1 1 SR 74 4 1

09/26/77-01/24/78

FILE	INPLT RECS.	DATA INPUT	RECORDS	MAX. SIZE	READ ERROR SUMMARY				INPUT RETRIES	
					PERM	ZERO	B	SFCRT	UNDEF.	#RECS.
1	3	3	9	80	0	0	0	0	0	0
FILE	2	RECORD	771	LENGTH	5764	BYTES				
(0)	41100000	42400000	41900000	421A0000	42120000	00000000	C17D4698	4167EEC1	C149ADEB	41BA0921
(40)	4182ACB9	C2185A81	42EC61E1	413548BB	C171C101	C1658AA4	C1843FF6	424D0000	41900000	421A0000
(80)	42120000	41500000	C17DF948	41786682	C11B7C9D	41B41EDC	41B06976	C18F6BA7	428848BE	415DBBCE
(120)	C15056BE	C16F6DBE	C163878B	424D0000	41900000	421A0000	42120000	41A00000	C17D013E	4167E270
(160)	C12AA88E	41AC9EC4	41A80B62	C1EB5AEE	428C459B	41486C9C	C155CD87	C16D685B	C168F0CF	424D0000
(200)	41900000	421A0000	42120000	41F00000	C1665F15	416FD952	C137FA73	41A32DB9	41A1A0CD	C214437D
(240)	42847780	4149C20D	C164F6D5	C154739D	C1745AC8	424D0000	41900000	421A0000	42120000	421A0000
(280)	C15DC389	4176EB24	C13315CB	41A11123	419FD256	C212A41C	42804139	4152AEF8	C1638295	C14C0B71
(320)	C1719E10	424D0000	41900000	421A0000	42120000	41500000	C15C7D81	417351AB	C13BDC00	41A10C4C
(360)	419F7CA1	C2160B5C	4280BB21	414BEEE3	C1695E24	C149AA12	C1774839	424D0000	41900000	421A0000
(400)	42120000	421E0000	C1559194	4177C14B	C137314C	419E5734	419D3148	C2148E34	427D8C06	41526EE4
(440)	C166DB00	C1431DCC	C173BC24	424D0000	41900000	421A0000	42120000	42230000	C133EB3E	416DDD94
(480)	C143CF03	41916AB0	418B2793	C21D29A0	4273483D	41446A2C	C16D6E42	C120B548	C1745D9F	424D0000
(520)	41900000	421A0000	42120000	42280000	C1878D73	41596C67	C14D2854	41BAD2E5	41B3CA27	C21969F6
(560)	4292965A	412E6A3D	C16C932D	C173274D	C181FEA0	424D0000	41900000	421A0000	42120000	422D0000
(600)	C192355D	414434FB	C133EA40	41B27055	41A9787B	C11D65A	429AFD9F	4126C2CF	C14C68F6	C18306E3
(640)	C16439AD	424D0000	41900000	421A0000	42120000	42320000	C1792217	4138FE16	C11E4F2F	419CFEB9
(680)	4189424F	C1CC1D14	429ACDA0	412653A7	C133E684	C16E7036	C14E329	424D0000	41900000	421A0000
(720)	42120000	42370000	C18DD5B0	413B0A75	C1347F8B	41B163D3	41A25ABE	C212DD80	429D6655	411EE6C2
(760)	C148A9DE	C17F3368	C15FFD6B	424D0000	41900000	421A0000	42130000	00000000	C1972A3B	41554434
(800)	C147F953	41C3CAA2	41BBE305	C2168624	42969305	412EB5C5	C1654840	C18360E0	C17DE202	424D0000
(840)	41900000	421A0000	42130000	41500000	C1839AD0	41568C1E	C1405809	41BA5508	41AA25EA	C2163851
(880)	4292AB7A	41338349	C15EB506	C1712FF5	C1741400	424D0000	41900000	421A0000	42130000	41A00000
(920)	C197971A	4137DA4C	C131A0AE	41BA834F	41A500C7	C211139A	429FC61E	411E2348	C1444DE3	C18967EF
(960)	C15D9AAD	424D0000	41900000	421A0000	42130000	41F00000	C199C9AA	41514A81	C1303428	418E7F6E
(1000)	41B48199	C1F7D181	429823B0	413631A9	C14D6512	C189F400	C166FD28	424D0000	41900000	421A0000
(1040)	42130000	42140000	C192EE09	414D3DEE	C13E0FF5	41B81724	41B030BB	C21395FA	429844CF	412E6A7B
(1080)	C1556788	C181C5BC	C16DB780	424D0000	41900000	421A0000	42130000	42190000	C197837B	41595257
(1120)	C121E483	41BA43EE	41831E54	C1AE83EC	42957AB9	41440003	C1430FF7	C189795D	C15C7AC0	424D0000
(1160)	41900000	421A0000	42130000	411E0000	C189C8E6	41496A0D	C12D388B	41B171F7	41A28D97	C2102816
(1200)	4257F3D8	41312F1F	C146C729	C1784F19	C15DC0D0	424D0000	41900000	421A0000	42130000	42230000
(1240)	C18A9CF7	41695C7C	C1202262	4187F4D5	41B10D2B	C1A74FB8	428EC2DC	41540345	C147341D	C17C080E
(1280)	C15E5036	424D0000	41900000	421A0000	42130000	42280000	C17F2359	414640BB	C120B5E0	41A7F2B9
(1320)	4194E4F3	C1CB0D5F	42971380	4133CA08	C1398D47	C17322E2	C14EDADA	424D0000	41900000	421A0000
(1360)	42130000	422D0000	C193818C	41389EFC	C1378149	418227B0	41A850CA	C2134AE0	429DFDE2	41215950
(1400)	C14A7118	C1844280	C16302F1	424D0000	41900000	421A0000	42130000	42320000	C1903091	4118A2E8
(1440)	C144C9A9	41AB73D5	41A1A55E	C2192F6A	42AA4DD6	C03A8186	C148EF16	C181488B	C160E8AC	424D0000
(1480)	41900000	421A0000	42130000	42370000	C17F7265	411C2958	C13079BD	41A1B746	418B388E	C2145FFC
(1520)	42A78A12	407A5B45	C1377BC1	C173DE3E	C14CC49A	424D0000	41900000	421A0000	42140000	00000000
(1560)	403246E7	416FB679	401FCF26	41764D59	416FC64D	41104E67	42586381	41683FD7	C1281C6D	40A0991A
(1600)	C126F565	424D0000	41900000	421A0000	42140000	41500000	C124D805	41720A76	C0885193	417DF50F
(1640)	417825B4	C1410FE4	426BE787	4166AC69	C13244C8	C1189D98	C137DF47	424D0000	41900000	421A0000
(1680)	42140000	41A00000	4017663E	41752C9B	C01DA2C1	4178EF0B	417532AF	C0E7D2B1	425948ED	416C4326
(1720)	C12CC493	40922696	C128DA34	424D0000	41900000	421A0000	42140000	41F00000	409A998D	41765261
(1760)	C076AFE8	4178A1E7	4176F27A	C1393527	425554D6	416E7EA7	C131E86E	41120F84	C12F84A1	424D0000
(1800)	41900000	421A0000	42140000	42140000	40CF55B0	41735650	C04DEA66	417644E9	41742A37	C1267100
(1840)	425396E9	4169D6DB	C12DFE2E	41149997	C12B1D39	424D0000	41900000	421A0000	42140000	42190000
(1880)	41C4CAC02	41796581	BFC77433	417BA918	41757E57	C05E0FE7	4257BD4C	41712747	C12BDF0F	40C262DD
(1920)	C12AED30	424D0000	41900000	421A0000	42140000	421E0000	4070AF16	41787FFB	C03C2500	417B11BF
(1960)	4178C399	C11C8A31	4256A780	416F70D1	C12DDACC	40EA9108	C12C040F	424D0000	41900000	421A0000
(2000)	42140000	42230000	C0443FC6	416A6AFD	C034007D	4170F1FE	416A8D8D	C11BF784	425C4BA0	41629BA6
(2040)	C12803DC	4027C62E	C1282AB7	424D0000	41900000	421A0000	42140000	42280000	C138CDD2	41783915
(2080)	C118B3BC	418B115D	4189EA75	C1A5162B	4272BFC4	416E2FE8	C141E1E5	C12D245B	C14A0507	424D0000
(2120)	41900000	421A0000	42140000	422D0000	C13B39A3	418098E4	C0745C9E	418E7A4F	4180C43C	C12F0C87

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(4800)	C14478C4	424D0000	41900000	42180000	00000000	41F00000	C1657E58	418F0C0C	C11DC658	41E2CD61
(4840)	41B1E825	C19A26B7	427D5B34	41850648	C13C54B4	C162EBE5	C140766A	424D0000	41900000	42180000
(4880)	00000000	42140000	C163AC41	41889191	C127C04A	41AEBAA91	41ADAEDF	C1D380BA	427E1F95	417C9E14
(4920)	C14477F3	C1611105	C1481D8D	424D0000	41900000	42180000	00000000	42190000	C1622718	418E819E
(4960)	C123ED79	41B194B9	41B0BA48	C18BAA3E	427C8EB9	41835375	C141DAB0	C15FECBB	C1450BED	424D0000
(5000)	41900000	42180000	00000000	421E0000	C164A184	418BA84F	C11F0B1D	41B04461	41AEE5AB	C1A39148
(5040)	427DC65A	4181AC2A	C13C5198	C162D837	C13F2F3C	424D0000	41900000	42180000	00000000	42230000
(5080)	C160F86E	41919AEE	C11748B6	41B1A85D	41B07C0F	C1755C97	427BA985	418934D5	C135E056	C15F9D54
(5120)	C1383D88	424D0000	41900000	42180000	00000000	42280000	C16232E8	418474D1	C1128F8E	41A74C84
(5160)	41A5EDA2	C166C2C6	427E8D52	417D6D9A	C12E5001	C1613DC7	C1304E19	424D0000	41900000	42180000
(5200)	00000000	422D0000	C15F9ACF	4182CD7B	C121A647	41A67C4F	41A57987	C18BBA69	427E29D2	4178A888
(5240)	C13C9561	C15E9CA7	C13E1D86	424D0000	41900000	42180000	00000000	42320000	C15FF1D1	4182DF38
(5280)	C116A077	41A4E12C	41A3D835	417F01AC	427E3EED	41781AA0	C13189E1	C15F5914	C132DC3F	424D0000
(5320)	41900000	42180000	00000000	42370000	C15E391D	41583503	C13D0900	419CCA08	418BF048	C2146E1C
(5360)	4287EE89	414EDE52	C142ED08	C15DBA8B	C143A4E8	424D0000	41900000	42180000	41100000	00000000
(5400)	C1409409	413894FB	C1413598	417E6461	416BD0B3	C225375B	428AC6A0	4129A1E1	C14B5708	C14049C5
(5440)	C14BCDC2	424D0000	41900000	42180000	41100000	41500000	C118D0A6	4134E447	C14473A0	4165CB98
(5480)	415ADDFD	C230E0DD	4275BD45	412564FD	C14DF8E3	C11BDF96	C14DFDAF	424D0000	41900000	42180000
(5520)	41100000	41AC0000	C1196C34	413A77A3	C11C7986	41581236	4145D34F	C2181137	42718017	41333845
(5560)	C1280872	C1199C31	C127E030	424D0000	41900000	42180000	41100000	41F00000	C13A4D42	40E308F7
(5600)	C01F302C	414CA57D	413C09BE	C11DC52B	42A65234	40D77A72	C04DC1EE	C13A56A3	C04453E7	424D0000
(5640)	41500000	42180000	41100000	42140000	C1685119	41161196	C0C1A900	417165D6	416B4F74	C1679EE2
(5680)	42A8CE10	41131011	C1106C17	C16888AE	C0EF4EC2	424C0000	41900000	42180000	41100000	42190000
(5720)	C14A3BAB	40DC6DBB	C1138863	4157DA51	414E0895	C1EA363E	42A97C75	4096073B	C1162503	C14AA074
(5760)	C114C924									

FILE	INPUT RECS.	DATA INPUT	RECORDS INPUT	MAX. SIZE	READ PERM	ERROR ZERO	SUMMARY B	SHORT	UNDEF.	INPUT #RECS.	RETRIES TOTAL#
2	6	6	1	5764	0	0	0	0	0	0	0

FILE	RECORD	LENGTH	5764 BYTES
(0)	41400000	424E0000	41100000
(40)	4190F888	C14883CF	C25AACCC
(80)	41730000	41500000	C04113CD
(120)	C14F7333	C11FF8B1	C148D8ED
(160)	C024B659	41A30CCB	419F6923
(200)	41100000	42180000	41730000
(240)	C260EF20	C185ED1E	C1363ACB
(280)	C1E03367	C185F848	411C8FE4
(320)	409412E5	424E0000	41100000
(360)	41A5A19A	41E1D795	41E1D795
(400)	41700000	421E0000	C160A6CD
(440)	C11AC67C	C163D18B	40992BF7
(480)	4125B516	419D2F91	419B58CA
(520)	41100000	42180000	41700000
(560)	C2678FF8	C184EA51	C132D9A5
(600)	C17A0573	C192CAD3	C04E2DEE
(640)	C134D5E7	424E0000	41100000
(680)	41ACE599	C2103F88	C25AD7F1
(720)	41700000	42370000	40662D94
(760)	C15C2B45	C11B21B3	C15850A9
(800)	C12CD413	41A93F34	41A8A3A3
(840)	41100000	42180000	41800000
(880)	C25B3105	C18ACB98	C176BB36
(920)	C0E87866	C1890AB8	C14782A9
(960)	C1763C3B	424E0000	41100000
(1000)	41CCCAEE	C219BF66	C25A42EC
(1040)	41800000	42140000	4078D3D3
(1080)	C1918808	C12CECB8	C18AD578
(1120)	C146674E	41C05BAA	41BF1883
(1160)	41100000	42180000	41800000
(1200)	42524C45	C0737149	4179DD63
(1240)	C111FAF5	C18FE634	41A23578
(1280)	4168BA4D	424E0000	41100000
(1320)	41CD483A	C19B9C05	C255E62A
(1360)	41800000	42200000	4112B46A

PROGNOZ 7

PLASMA DATA

78-101A-01A

No New I.D. Number

THIS DATA SET CONSISTS OF 1 MAGNETIC TAPE. THIS TAPE IS A
6250 BPI, BINARY, STANDARD LABELLED TAPE. THE D AND C NUMBERS, ALONG
WITH THE TIMESPANS ARE AS FOLLOWS.

D #	C #	FILES	TIME SPAN
-----	-----	-----	-----
D-078548	C-032414	3	11/23/78 - 04/28/79

78-101A-01A

МЕЖДУВЕДОМСТВЕННЫЙ ГЕОФИЗИЧЕСКИЙ КОМИТЕТ АН СССР
SOVIET GEOPHYSICAL COMMITTEE ACADEMY OF SCIENCES OF THE USSR

МИРОВОЙ ЦЕНТР
ДАННЫХ Б2

117296, Москва, ГСП-1,
Молодежная ул., 3; тел. 130-05-46

No. 34



WORLD DATA
CENTER B2

Molodezhnaya, 3, Moscow, 117296, USSR

Tel. 130-05-46

« 30 » March 1988

Dr. Joseph H. King

WDC A for Rockets & Satellites
NASA GSFC, Code 633
Greenbelt, MD 20771
U.S.A.

Dear Doctor King:

We have just received your tape with IRI and MSIS models and read it successfully.

The enclosed tape contains PROGNOZ 7 plasma data. I hope that in some months we'll obtain PROGNOZ 10 plasma data. I think you have already got magnetic field and energetic particles data of this satellite (Intershock Project) from our CSSR colleagues.

Best regards.

Sincerely yours,

A. Feldstein

A. Feldstein

WDC B2

cc: Dr. D. Bilitza

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 **
 **
 **

10-10-79

 *
 * РАСПЕЧАТКА РАЗДЕЛА FPR7E ИЗ БИБЛИОТЕКИ NSPACE НА ТОМЕ X
 *
 *

DESCRIPTION OF PLASMA MEASUREMENTS ON BOARD
"PROGNOZ 7" SATELLITE.

PROGNOZ 7 SATELLITE WORKED FROM NOVEMBER 1978 TILL JULY 1979,
 ABOUT 50-70% OF TIME THE SATELLITE WAS IN UNDISTURBED SOLAR WIND,
 PROTONS AND ALPHA-PARTICLES WERE MEASURED AT THE ENERGY RANGE 0,25-5
 KEV/Q FOR NONSELECTIVE AND SELECTIVE (PROTONS AND ALPHA-PARTICLES SEPA-
 RATELY) CHANNELS. THE WHOLE ENERGY RANGE DIVIDED LOGARITHMICALLY HOMOGE-
 NEOUSLY ON 24 STEPS; IT TAKES 10,2 S TO OBTAIN INFORMATION FROM 1 STEP,
 SO TEMPORAL RESOLUTION APPROXIMATELY 4 MINUTES. ACCURACY OF MEASURE-
 MENTS: VELOCITY ERROR < 2%, TEMPERATURE ERROR < 20%, ION DENSITY ERROR
 < 20%, ION FLUX ERROR < 20%,

PRIME INVESTIGATOR IS PROF. O.L. VAISBERG (INSTITUTE OF SPACE RE-
 SEARCH SOVIET ACADEMY OF SCIENCES). THE LATEST PAPER WITH NECESSARY
 BIBLIOGRAPHY AND SOME RESULTS OF DATA STATISTICAL PROCESSING IS: ERMO-
 LAEV YU. I, "BEHAVIOUR OF KINETIC PARAMETERS OF PROTONS AND ALPHA-PAR-
 TICLES IN DEPENDENCE OF SOLAR WIND SPEED", COSMICHEKIE ISSLEDOVANIYA,
 V. 24, N5, P. 725-734, 1986.

DATA DESCRIPTION

DATA ARE PRESENTED AS ONE MAGNETIC TAPE, ~~NL~~, 800 BPI, EBCDIC, FIXED
 BLOCK LENGTH, THE FOLLOWING LOGICAL RECORD STRUCTURE IS USED
 (R4=REAL*4, I2=INTEGER*2), BLOCK LENGTH IS 3150 BYTES (21 LOGICAL
 RECORDS).
Logical record = 150 bytes

IBM 32-bit binary

PARAMETERS	FORMAT	DESCRIPTION
YEAR	I 12 I	
MONTH	I 12 I	MOSCOW
DAY	I 12 I	TIME
HOUR	I 12 I	
MINUTE	I 12 I	
SECOND	I 12 I	
SC	I 12 I	TYPE OF ION IN SELECTIVE CHANNELLED (1-PROTONS, 2-ALPHA-PARTICLES)
PI	I R4 I	I FROM 1 TO 24, FLUX OF IONS IN $10^{**8} * CM^{**(-2)} * C^{**(-1)}$ FOR FIXED ENERGETIC STEP
VP	I R4 I	PROTON VELOCITY IN KM/S FROM NONSELECTIVE CHANNEL (NC)
TP	I R4 I	PROTON TEMPERATURE IN EV FOR NC

RC	I	R4	I	ALPHA-PARTICLES DENSITY FOR NC (IN RELATIVE UNITS)
VA	I	R4	I	ALPHA-PARTICLES VELOCITY IN KM/S FOR NC
TQ	I	R4	I	ALPHA-PARTICLES TEMPERATURE IN EV FOR NC
VPS	I	R4	I	SIMILAR TO VP AND TP BUT FOR SELECTIVE CHANNEL (IN CASE OF SC=1)
TPS	I	R4	I	
VAS	I	R4	I	SIMILAR TO VA AND TA BUT FOR SELECTIVE CHANNEL (IN CASE OF SC=2)
TAS	I	R4	I	
N	I	R4	I	IONS DENSITY IN SM**(-3)

SOMETIMES N OR FI LOWER THAN ZERO. THERE DATA ARE ERRONEOUS (SUCH SITUATION OFTEN ARISES WHEN SATELLITE IS IN MAGNETOSHEATH), ORBIT DATA ARE NOT PRESENT, BUT THEY LISTED AT THE TAPE WITH PROGNOZ 7 MAGNETIC FIELD MEASUREMENTS AND YOU MAY USE TIME IN ORDER TO COMPARE THESE TWO DATA SETS.

LIST DD=SYSUT2 : СПРАВКА С ВЫХОДНОЙ МЛ ТО

78-101A-04X

ОС	ЕС	МАТА	РЕД.	5.4М	22,03,88	МЛ	1К1000	СПРАВКА С ВЫХОДНОЙ МЛ ТО						
МЕТ	МЕТ	ФОР	ЗА	МАКС	МИН.	БЛО	СБО	ДОПОЛН	Н	И М Я	ИТОГО	КОГДА	КС	КОНТР.
РАЖ	РОВ	МАТ	ПИСЬ	БЛОК	БЛОК	КОВ	ЕВ	СВЕДЕНИЯ	П/П	НАБОРА	БАЙТОВ	СОЗДАН		СУММА
				<i>max</i>	<i>min</i>	<i># of blocks</i>					<i># of bytes</i>			
159	159	FB	150	3150	1050	2399			1	1К10WDCB	7554750	000000	4929	9EEBD7C2

ИТОГО БЛОКОВ 2408 (ВКЛЮЧАЯ МАРКИ) *# of blocks (including file marks)*
 БАЙТОВ 7555150 *# of bytes [on tape]*
 МЕТРОВ 159 (63 БАЙТ/ММ) *159 meters [521 ft] 63 bytes/mm [= 1600 BPI]*

КОНТРОЛЬНАЯ СУММА 4929, С УЧЕТОМ МЕТКИ 0000
control sum

| 78-101A-04A

HEX DUMP OF nc3001

* Time span not in order

D-078548
11/23/78 - 1/28/79

FILE 2	RECORD 1	3150 BYTES									
(0)	004F0004	001C0001	001E002D	0002404C	FFFBC018	108CC057	3ABFC070	7ED3C04A	98B53F13	38754040	
(40)	5DF1404C	FFF8404C	FFC34072	E619408C	29F64098	CC004033	BE780000	00000000	00000000	00000000	
(80)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	
(120)	00000000	00000000	00000000	00000000	00000000	00004319	37DE4120	FE144057	4577004F	0004001C	00010020
(160)	003A0001	401A77D3	C0573ABF	C0707ED3	C063DCC9	C017691F	401A779B	3FDD5916	40405DB9	40990DB6	
(200)	40A56E41	40BEDDED	4033BBAF	404D6D11	C018108C	C03D391E	C0566EE2	BFB6E82B	40343785	405A07F3	
(240)	407FD862	40990DB6	40BEDE25	40BEDDED	40A5A861	00000000	00000000	00000000	00000000	00000000	
(280)	43105F2E	40367FE1	00000000	00000000	40C44A61	004F0004	001C0001	00250004	00024073	3D803F13	
(320)	3875C031	54A0C057	3ABF3FE6	74ED405A	07BC404C	FFF84066	440F408C	72D44099	0DB640F1	493D40A5	
(360)	A86140B2	4343404C	FFF83FE6	74EDC024	B2963FE6	74ED404C	FFF84099	0DB6407F	882340CB	789740CB	
(400)	78CF40E4	AE2440E4	AE5B0000	00000000	00000000	00000000	00000000	00000000	00000000	000042AD	
(440)	85B84067	4E2E4124	8498004F	0004001C	00010029	000A0001	40A5A898	407FD82A	40343785	C018108C	
(480)	C018108C	40279CDB	40990DB6	406643D7	408C2A2D	40A56E41	40BEDDED	40E49874	40A5A861	408C29F6	
(520)	404CFFC3	C018108C	BFB6E82B	4040D22F	40733D80	40990D7F	40E2430E	40CB78CF	40D81379	40F14906	
(560)	00000000	00000000	00000000	00000000	00000000	4312A1A9	404CD3EF	00000000	00000000	4118C8CA	
(600)	004F0004	001C0001	002D0010	000240F1	4906407F	8823405A	07843F13	3875BFAC	E05F4034	3785404C	
(640)	FFC3408C	2A2D40B2	434340B2	104B40CB	78CF4110	A7E940E4	AE2440D8	1379408C	2A2D4040	5DF14027	
(680)	19A5401A	779B408C	72D440B2	434340CB	78CF40BE	B25640E4	AE5B40D7	F66A4000	00000000	00000000	
(720)	00000000	00000000	00000000	00000000	000042C5	B1004086	6949412D	03FD004F	0004001C	00010031	
(760)	00150001	4110A7E9	40CB7897	4098CC37	40405DF1	404D6D11	401B01F9	4066A266	4098CC00	40A5A861	
(800)	40D81379	40CB78CF	40CB5460	40FDDC88	40E4AE24	40F14906	407F87EC	4040D22F	40343785	40405DB9	
(840)	40E24343	40A5A898	40BEDDED	40CB78CF	40F148CE	44D839FF	4518FE78	00000000	00000000	00000000	
(880)	4313E5DD	405B51DE	00000000	00000000	3F2E5795	004F0004	001C0001	0035001E	00024110	A7E94110	
(920)	A7E940A5	6E0A4066	A266401B	01F93FE6	74EDBFB6	E82B404D	6CDA40A5	A89840A5	A86140B2	104B40CB	
(960)	78CF40F1	490640B2	104B4098	CC3740B2	43434033	BBAF405A	07BC404D	6D114066	440F4099	0DEE4098	
(1000)	CC374098	CC3740D8	13B14421	DB8A4443	A0430000	00000000	00000000	00000000	00000000	00004322	
(1040)	E35E4148	A0CE4010	30AF004F	0004001C	00010039	00210001	40D81379	40FDDC88	40EBE21E	40A56E0A	
(1080)	4066A29E	40343785	3F1CCA47	408C72D4	408C2A2D	40BEDDED	407F8823	40B2104E	40D7F66A	40B21014	
(1120)	4098CC37	406643D7	4033BBE7	4040D267	40733D80	40CB78CF	40A56E0A	40CB7897	00000000	00000000	
(1160)	4221788A	433E8000	00000000	00000000	00000000	42F559E8	403B41BF	00000000	00000000	41253423	
(1200)	004F0004	001C0002	0001001C	000240D7	F66A40F1	3A7E40FD	DC884110	A7E9408C	72D44073	3D48401B	
(1240)	02303FE6	74EDBFAC	E05F401A	779B4073	3D4840A5	A86140A5	6E4140E4	AE5B40FD	E3B040FD	E3E840B2	
(1280)	43434099	0DB64027	9CDBC03D	3956BFAC	E3D73FE6	74ED404C	FFC3401A	77D30000	00000000	00000000	
(1320)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	0000004F	0004001C	00020005	
(1360)	00220001	405A07BC	4033BBAF	402719DD	407FD82A	4033BBE7	BFB6E82B	C089C2E7	C06FA46E	C0A20F4F	
(1400)	C06FA437	C0315469	401B0230	3FDD5C8F	C018108C	401B01F9	3FE67175	C01768E7	3F1CC6CE	C01768E7	
(1440)	C0566EAA	C07D20DD	C04A98B5	C018108C	401A779B	441DCE70	4430A741	00000000	00000000	00000000	
(1480)	42E5AE69	4040EBB5	00000000	00000000	BF2B294A	004F0004	001C0002	00090028	00024033	BBAF404C	
(1520)	FFF84027	19DD4066	43D7407F	88234027	19A54033	BBAFC017	691FC03D	F6ABC057	3ABFBFB6	E82B4033	
(1560)	BBE74066	43D7407F	8823408C	2A2D40B2	104B40B2	104B408C	2A2D4072	E6194027	19A5C024	E296C031	
(1600)	54A04033	BBAF408C	29F60000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	
(1640)	00000000	00000000	0000004F	0004001C	0002000D	002D0001	C1153E38	C11EB7C0	C13B245A	C116BBB7	
(1680)	C212802A	C0E2312E	C1A0FED9	C1423F83	C119FAFF	C1114B98	C13CB89B	C16B4E24	C11F81E0	C116D27D	
(1720)	C063DC91	C0966529	C14C832B	BFB6E8A4	C21317C3	C214EB2E	C2119CC5	C2119CC6	C143D3C4	C12ABFAD	
(1760)	431661A0	41ED96D4	00000000	00000000	00000000	00000000	00000000	00000000	00000000	C2110B8D	
(1800)	004F0004	001C0002	00110033	0002C186	F0A1C17C	ACF5C110	8178C0D5	8F23C116	085CC122	AA66C116	
(1840)	D27DC12A	8FADC125	D2E5C121	E042C11A	C520C070	7ED3401A	77D3C139	901CC121	16254059	A205C1AF	
(1880)	3521C0E2	3165408C	29F64072	E5E2404C	FFC3BFB6	E82BC018	108C4040	5DB90000	00000000	00000000	
(1920)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	0000004F	0004001C	00020015	
(1960)	00390001	4098CC00	4098CC00	40D7F66A	40B2104E	40D81379	40FDDC88	40E49874	40B2104E	406643D7	
(2000)	402719A5	401A779B	401A779B	4072E619	40A56E41	40A56E41	4098CC37	41117193	41123C2A	40FDDC88	
(2040)	40CB5428	408C2A2D	4059A1CD	402719A5	3FDD5916	00000000	00000000	00000000	00000000	00000000	
(2080)	00000000	00000000	00000000	00000000	00000000	004F0004	001C0002	001A0003	00024040	5DB9408C	
(2120)	2A2D408C	2A2D40B2	104B40A5	6E4140BE	B25640E4	987440BE	B21E4098	CC004040	5DB9401A	779BFBFB	
(2160)	E82B4072	E5E240B2	104B40A5	6E4140BE	B25640E4	98744111	720940F1	3A7E4112	3C2A40E4	9874407F	

HEX DUMP OF mc3001

FILE 2 RECDRD 2399 1050 BYTES

(0)	004E000E	00170007	002E0000	0002C05A	0978C073	4D55C066	AB82C01A	DF464024	4AEC4017	ABE2C066
(40)	AB82C04D	676E6AE2	13CB0000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(80)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(120)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(160)	00200002	C08C91A0	C040C52C	C09933E2	C07FEF96	C09933AA	C0278150	C034235A	C01ADF46	C04D676E
(200)	C04D676E	C04D676E	C034235A	C04D676E	BF19B31E	C05A0978	00000000	00000000	00000000	00000000
(240)	00000000	00000000	00000000	00000000	00000000	43162958	431013B6	00000000	00000000	00000000
(280)	00000000	00000000	00000000	00000000	00000000	004E000B	00170007	00320006	0001C073	4D8CC01A
(320)	DF46C05A	0978C040	C564C027	8150C027	8150C0A5	D5B4C066	AB82C05A	0978C034	2322C0A5	D5B4C073
(360)	4DC4C027	8150C034	235ABFE3	D3BFC05A	0978C05A	0978C040	C564C040	C564C066	AB82C04D	676EC040
(400)	C564C05A	09400000	0000431C	3E4C4278	81070000	00000000	00000000	0000431E	1BD9423A	79760000
(440)	00000000	0000C0A4	188B004E	000B0017	00070036	000C0002	C04D676E	C0734D8C	C01ADF46	40244AEC
(480)	C09933AA	BF19B31E	4017A8E2	C040C564	C0278150	C040C564	C066AB4A	COA5D5B4	COA5D5B4	C08C91A0
(520)	C04D6736	C0278150	C0278150	3FB06D82	C0278150	C07FEF96	C066AB82	C04D6736	C0A5D5B4	C0A5D5B4
(560)	431C7112	4274A09E	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00A0D6F5
(600)	004E000B	00170007	003A0011	0001C0A5	D5B4C034	235AC0B2	77F6C01A	DF46C01A	DF46C05A	0978C066
(640)	AB82C066	AB82C040	C564C073	4D55C073	4D8CC040	C564C08C	91A0C034	2322C040	C52CBFE3	D3BFC066
(680)	AB82C066	AB82C066	AB82C066	AB82C04D	676EC073	4D8CC0A5	D5ECC08C	91A0431C	3432426B	A4E10000
(720)	00000000	00000000	0000431D	34494160	7C290000	00000000	0000C0CE	F3E8004E	000B0017	00080002
(760)	00170002	C066AB82	C066AB82	C04D676E	BF19B31E	C07FEF96	C0BF19C9	C0278150	C040C564	C040C564
(800)	C05A0978	C066AB82	BF19B31E	C04D676E	C08C91D8	BFE3D3BF	BF19B31E	3FB06D82	C05A0978	C040C564
(840)	C04D676E	C034235A	C05A0940	C040C564	C04D6736	431C0BDA	426E2A81	00000000	00000000	00000000
(880)	00000000	00000000	00000000	00000000	C09E6A4E	004E000B	00170008	0006001D	0001C08C	91A0C01A
(920)	DF46C08C	91D84017	A919C034	2322C073	4D8CC04D	676EC027	8150C01A	DF0EC04D	6736C099	33AAC034
(960)	235AC034	235ABF19	B31EC177	52FCC178	1D20C174	2A7AC173	605CC17D	A405C178	1D20C172	9638C176
(1000)	88DBC16F	6DB6C16D	0F54431C	C219431A	AFDD0000	00000000	00000000	00000000	00000000	00000000
(1040)	00000000	0000C16F	4116							

REQ. AGENT

SAR

ACQ. SCIENTIST

HKH/RP

PROGNOZ-7
5-MINUTE B FIELD VECTOR

78-101A-04A SPMS-00383

THIS DATA SET CONSISTS OF 1 MAGNETIC TAPE. THIS TAPE IS
A 1600 BPI, BINARY, 1 FILE NON-LABELLED TAPE. THE D AND C
NUMBERS, ALONG WITH THE TIMESPANS ARE AS FOLLOWS:

PROGNOZ-7

D#	C#	FILES	TIME SPAN
D-78148	C-26701	1	11/10/78 - 06/02/79

МЕЖДУВЕДОМСТВЕННЫЙ ГЕОФИЗИЧЕСКИЙ КОМИТЕТ АН СССР
SOVIET GEOPHYSICAL COMMITTEE ACADEMY OF SCIENCES OF THE USSR

МИРОВОЙ ЦЕНТР
ДАННЫХ Б2

117296, Москва, ГСП-1,
Молодежная ул., 3; тел. 130-05-46
Ref. No. 182



WORLD DATA
CENTER B2

Molodezhnaya, 3, Moscow, 117296, USSR
Tel. 130-05-46
« 15 » December 1986

Dr. J. King
National Space Science
Data Center, Code 633.4
Goddard Space Flight Center
Greenbelt MD 20771
U.S.A.

Dear Doctor King:

I am sending you herewith, by air mail, a reel of magnetic tape containing PROGNOZ-7 five-minute magnetic field data (9 tracks, 1600 bpi, ~~ASCII~~ code). The tape format is fixed block with a logical record length of 45 binary words (180 bytes). The physical record length is 27000 bytes. Format of logical data is completely the same as in five-minute IMP-J data in binary presentation.

The following words are not vacant in logical record:

- 1 Year
- 2 Day
- 3 Minute
- 7-9 Satellite position (GSM), km
- 11 $\langle |B| \rangle$
- 12-14 $\langle B_x \rangle$, $\langle B_y \rangle$, $\langle B_z \rangle$ (GSM), nT
- 15 $(\langle B_x \rangle^2 + \langle B_y \rangle^2 + \langle B_z \rangle^2)^{1/2}$
- 16 θ degrees
- 17 φ degrees
- 33,34 Y,Z (GSE), km
- 35,36 $\langle B_y \rangle$, $\langle B_z \rangle$ (GSE), nT

All other words filled by zeroes. The tape data set spans the period November 10, 1978 to June 2, 1979. The satellite crossed magnetopause and most time appeared in magnetosheath and solar wind. Prof. Sh. Sh. Dolginov (IZMIRAN) was prime investigator.

Caution:

1. If any component of \vec{B} is more than 65 nT the data are unreliable.
2. Sometimes, especially for the first logical record in the block, the first word (year) is substituted by zeroes. But as only two years (78 and 79) are present on the tape it is always clear what year is investigated looking at the day number.

Plasma parameters for this satellite are accessible too. But the scientists from Institute of Space Research had not processed them to the necessary level for users yet, though they promises to do it soon.

In our turn some Soviet scientists became interested in OGO 5 ELF data and MAGSAT vector magnetometer data. Would you be so kind to send us the description of the OGO 5 search coil data 0.03 - 1000 Hz, tape (NSSDC ID is 68-014A-16B) and MAGSAT, vector magnetometer (NSSDC ID is 79-094A-02) experiments. They are necessary for us in order to realize what amount and kinds of data we need in reality and compile the request.

With best wishes.

Sincerely yours,

A. Feldstein

A. Feldstein

cc: Dr. James I. Vette

(25080)	00000000	00000000	00000000	00000000	00000000	00000000	424E0000	4313B000	4314A000	00000000	00000000
(26120)	00000000	442A9F48	44A4B2A2	45216E4D	00000000	00000000	423A4EEF	418C4EFE	C238627D	41B2108D	423A2340
(26160)	41B9367	C25128E8	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(26200)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	C4162395	4522F694	C238DE05
(26240)	C187367C	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(26280)	424E0000	4313B000	4314F000	00000000	00000000	00000000	00000000	442A807B	44A9A5EE	45217956	00000000
(26320)	423789D2	4192C722	C2364736	4145393D	423738D8	41485A42	C2506846	00000000	00000000	00000000	00000000
(26360)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(26400)	00000000	00000000	C4160D20	45231937	C2348A6B	C1E5D1EE	00000000	00000000	00000000	00000000	00000000
(26440)	00000000	00000000	00000000	00000000	00000000	424E0000	4313F000	43154000	00000000	00000000	00000000
(26480)	00000000	442A617C	44AE9031	45218333	00000000	42374654	41906EA7	C235D290	415D2A69	4235FEC9	00000000
(26520)	417206A4	C25080D7	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(26560)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	C4155806	45233BA3	C234E69F
(26600)	C1C23400	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(26640)	424E0000	4313B000	43159000	00000000	00000000	00000000	442A617C	44AE9031	45218333	00000000	00000000
(26680)	42351F31	41A9098D	C23305F0	41419CD4	42344440	4147FFFA	C24E4D36	00000000	00000000	00000000	00000000
(26720)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(26760)	00000000	00000000	C4155806	45233BA3	C231432C	C1DF1B96	00000000	00000000	00000000	00000000	00000000
(26800)	00000000	00000000	00000000	00000000	00000000	424E0000	4313B000	4315E000	00000000	00000000	00000000
(26840)	00000000	442A4234	44B3705B	45218D8D	00000000	4235C2FA	41B854A7	C233BF76	416BBC84	423570D3	00000000
(26880)	4173D0E2	C24D72E9	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(26920)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	C41441EE	45235D93	C232CFD7	00000000
(26960)	C1BF6272	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000

153

FILE	1	RECORD	226	LENGTH	27000	BYTES					
(0)	424E0000	42990000	43186000	00000000	00000000	00000000	C446478C	C4C91BB1	451E9204	00000000	00000000
(40)	41F80D19	C1AD5155	C164ADA1	419444F7	41F95124	42247D0D	C295D921	00000000	00000000	00000000	00000000
(80)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(120)	00000000	00000000	C4867BE8	451F0933	C15F8309	41978C6E	00000000	00000000	00000000	00000000	00000000
(160)	00000000	00000000	00000000	00000000	00000000	424E0000	42390000	4318B000	00000000	00000000	00000000
(200)	00000000	C4462D68	C4C65E44	451E7C00	00000000	41E785F7	C19479B9	C16FCA4D	418698DE	41E57965	00000000
(240)	4223E98A	C28F05EF	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(280)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	C4869ACD	451EE1D1	C1689ED4	00000000
(320)	418A02C1	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(360)	424F0000	42990000	43190000	00000000	00000000	00000000	C44612B9	C4C3ADC3	451E66AA	00000000	00000000
(400)	41E5DE34	C18A5965	C182F1AF	417D008E	41E44A28	4221719B	C288933D	00000000	00000000	00000000	00000000
(440)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(480)	00000000	00000000	C486886F	451EBA13	C17F8FF2	418154D6	00000000	00000000	00000000	00000000	00000000
(520)	00000000	00000000	00000000	00000000	00000000	424F0000	42990000	43195000	00000000	00000000	00000000
(560)	00000000	C4460D8C	C4C1023F	451E702E	00000000	41F904C4	C1918E99	C1A07FB3	4173771A	41F5A0FF	00000000
(600)	421C0A18	C2843D33	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(640)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	C486RDEB	451EB277	C19DD2D5	00000000
(680)	41772911	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(720)	424F0000	42990000	4319A000	00000000	00000000	00000000	C4460D8C	C4C1023F	451E702E	00000000	00000000
(760)	41F2F7A7	C1914846	C187B31A	413C3D03	41F1D5F7	41E6C6CA	C2805777	00000000	00000000	00000000	00000000
(800)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(840)	00000000	00000000	C4868DEB	451EB277	C1869558	413FC7E3	00000000	00000000	00000000	00000000	00000000
(880)	00000000	00000000	00000000	00000000	00000000	424F0000	42990000	4319F000	00000000	00000000	00000000
(920)	00000000	C445F24A	C4BE7062	451E58DF	00000000	41DCE500	C186C296	C1A38A96	4136AF91	41DAJA57	00000000
(960)	41E78580	C2817D2D	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1000)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	C486D9C0	451E8A91	C1A2B958	00000000
(1040)	41393A73	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1080)	424F0000	42990000	431A4000	00000000	00000000	00000000	00000000	C445D67A	C48BEEB3	451E40D4	00000000
(1120)	41F4A81A	C178C2E8	C1D0D0C8	4115D498	41F234C6	41528D32	C2780AA3	00000000	00000000	00000000	00000000
(1160)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1200)	00000000	00000000	C486F449	451E626F	C1D0A14F	41184CE6	00000000	00000000	00000000	00000000	00000000
(1240)	00000000	00000000	00000000	00000000	00000000	424F0000	42990000	431A9000	00000000	00000000	00000000
(1280)	00000000	C445D67A	C48BEEB3	451E40D4	00000000	421285DD	C187F7DD	C1D52D11	4151B184	42125316	00000000
(1320)	421F208D	C282C336	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1360)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	C486F449	451E626F	C1D4A066	00000000
(1400)	415376FC	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1440)	424F0000	42990000	431AE000	00000000	00000000	00000000	C445A825	C4897DAD	451E280A	00000000	00000000
(1480)	42130CF9	C1886FC2	C1CFD7F7	4166188E	421280A1	42142C8D	C28395D1	00000000	00000000	00000000	00000000
(1520)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
(1560)	00000000	00000000	C4870D38	451E3A0F	C1CF77B0	41E70438	00000000	00000000	00000000	00000000	00000000
(1600)	00000000	00000000	00000000	00000000	00000000	424F0000	42990000	43133000	00000000	00000000	00000000

REQ. AGENT

BMW

ACQ AGENT

JHK

PROGNOZ - 9

SOLAR WIND HOURLY PLASMA DATA

83-067A-04B SPMS-00354

This data set catalog consists of one tape. The tape is 9 track, 1600 BPI, EBCDIC with 1 file of data. The tape was created on an IMB/360 computer.

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>	<u>COMMENTS</u>
D-80113	C-27535	07/03/83 - 02/10/84	

83-067A-04B

МЕЖДУВЕДОМСТВЕННЫЙ ГЕОФИЗИЧЕСКИЙ КОМИТЕТ АН СССР
SOVIET GEOPHYSICAL COMMITTEE ACADEMY OF SCIENCES OF THE USSR

**МИРОВОЙ ЦЕНТР
ДАНЫХ Б2**

117296, Москва, ГСП-1,
Молодежная ул., 3; тел. 130-05-46
Ref. No. 202



**WORLD DATA
CENTER B2**

Molodezhnaya, 3, Moscow, 117296, USSR
Tel. 130-05-46

« 25 » December 1989 г.

Dr. Joseph H. King
Head

Central Data Services Facility
National Space Science Data Center
NASA/GSFC, Code 630.2
Greenbelt, MD 20771
U.S.A.

Dear Doctor King:

I've just received your letters of November 3 and November 9 and your telex. IZMIRAN ballistics specialists developed new software to track IMP 8 orbit. But if such changes of osculating parameters, as we have between 89/08/03 and 89/09/02 data sets are not very rare (frankly speaking such changes seem to them strange in spite of your remarks), they need new set of IMP 8 orbit elements every two weeks for correction of their program. As far as I understand most important now is to persuade USSR - NASA joint group to support this idea. Dr. Reznikov will contact with Dr. Galeev. Concerning USA part I have the following idea. Solar wind data are very important for STEP program. Therefore it seem reasonable to organize support from numerous USA scientists engaged in SCOSTEP activity (Juan G. Roederer President; Chao-Han Liu, Scientific Secretary and so on). May be it helps you as officials in the NASA headquarters will see that the data are really necessary for USA scientific community. We are in very good connections with Roederer, Liu and may ask for their support if it is not convenient for you.

Please find enclosed tape with Prognoz 9 hourly solar wind data and a preprint with description of the instrumentation, data processing and tables with data. IMP 8 data are inserted when Prognoz 9 data were unavailable.

Sincerely yours,

A. Feldstein
A. Feldstein

PROGNOZ 9 Solar Wind Hourly Plasma Data

(July 3, 1983 - Feb. 10, 1984)

Data occupies 4432 blocks of fixed length (46 bytes)

Block format

Format	Parameter	Description
I6	Year	UT
I2	Month	(beginning of the averaging interval
I2	Day	i.e. "0" corresponds to data
I4	Hour	averaged between 0.00 and 1.00)
I5	Velocity	In km/s
I3	Velocity dispersion	
F5.1	Density	In cm^{-3}
F4.1	Density dispersion	
I5	Temperature	In 10^6 °K
I4	Temperature dispersion	
I3	N	Amount of points for averaging
I3	Flag (F)	F = 0 for Prognoz 9 data F = 1 for IMP 8 data

LIST : СПРАВКА С МЛ АВУ

ОС ЕС МАТА РЕД, 5,4М 10,01,88 МЛ БЕЗ МЕТОВ СПРАВКА С МЛ АВУ

МЕТ РАЖ	МЕТ РОВ	ФОР МАТ	ЗА ПИСЬ	МАКС БЛОК	МИН. БЛОК	БЛО КОВ	СВО ЕВ	ДОПОЛН СВЕДЕНИЯ	Н П/П	И НАБОРА	М ДАННЫХ	ИТОГО БАЙТОВ	КОГДА СОЗДАН	КС	КОНТР, СУММА
79	79	F		46	46	4432			1			203872			

ИТОГО БЛОКОВ,.....,4434 (ВКЛЮЧАЯ МАРКИ)
 БАЙТОВ,.....,203872
 МЕТРОВ,.....,79 (32 БАЙТ/ММ)

ЕВСОДС, 1600 Ври



REQ AGENT

RWP

ACQ. AGENT

JHK

PROGNOZ 10

HOURLY SOLAR WIND PARAMETERS

85-033A-01A SPMS-00576

THIS DATA SET CONSISTS OF 1 MAGNETIC TAPE. THE TAPE WAS WRITTEN AT 1600 BPI, EBCDIC, 1 FILE, 80 BYTE RECORDS ON AN IBM 360 COMPUTER. THE TAPE CONTAINS DATA FOR 2699 HOURS (2699 RECORDS) HOWEVER BULK VELOCITY, TEMPERATURE AND PLASMA DENSITY ARE ONLY AVAILABLE FOR THE FIRST 550 HOURS. THE FORMAT THEN SHIFTS 1 CHARACTER TO THE RIGHT FOR THE REMAINDER OF THE TAPE. THE TAPE NUMBERS AND TIMESPAN ARE LISTED BELOW.

D NUMBER	C NUMBER	TIMESPAN
-----	-----	-----
D-79878	C-27375	4/30/85 - 10/4/85

\$NCP
\$NCF
\$NOP ***** RED2OUT *****
\$EXE TPLIST BS

Program - 9 / Solar Wind Hourly PLASMA Data

83-067A-04B

D-80113 C-27535

July 3, '83 → February 10, '84

INPUT PARAMETERS ARE: ED SR=1=30 1 1 1

TAPE NO. 1 FILE NO. 1
RECORD 1 LENGTH 46
1983 7 3 2 409 10 9.2 2.0 89 27 22 0

TAPE NO. 1 FILE NO. 1
RECORD 2 LENGTH 46
1983 7 3 3 406 10 8.7 1.4 85 28 22 0

TAPE NO. 1 FILE NO. 1
RECORD 3 LENGTH 46
1983 7 3 4 417 8 9.5 1.6 59 13 22 0

TAPE NO. 1 FILE NO. 1
RECORD 4 LENGTH 46
1983 7 3 5 412 8 10.4 1.3 74 17 22 0

TAPE NO. 1 FILE NO. 1
RECORD 5 LENGTH 46
1983 7 3 6 417 8 12.3 2.2 65 23 22 0

TAPE NO. 1 FILE NO. 1
RECORD 6 LENGTH 46
1983 7 3 7 433 13 12.1 1.6 83 24 22 0

TAPE NO. 1 FILE NO. 1
RECORD 7 LENGTH 46
1983 7 3 8 414 14 14.8 3.1 89 51 22 0

TAPE NO. 1 FILE NO. 1
RECORD 8 LENGTH 46
1983 7 3 9 423 8 16.1 2.3 56 30 22 0

TAPE NO. 1 FILE NO. 1
RECORD 9 LENGTH 46
1983 7 3 10 407 8 14.2 1.8 96 25 22 0

TAPE NO. 1 FILE NO. 1
RECORD 10 LENGTH 46
1983 7 3 11 416 11 16.3 3.0 73 31 22 0

TAPE NO. 1 FILE NO. 1
RECORD 11 LENGTH 46
1983 7 3 12 407 11 16.2 2.1 99 33 22 0

TAPE NO. 1 FILE NO. 1
RECORD 12 LENGTH 46
1983 7 3 13 398 6 15.1 2.5 111 27 22 0

TAPE NO. 1 FILE NO. 1
RECORD 13 LENGTH 46
1983 7 3 14 393 9 15.2 3.2 96 28 22 0

TAPE NO. 1 FILE NO. 1
RECORD 14 LENGTH 46
1983 7 3 15 393 4 13.4 3.2 94 19 22 0

TAPE NO. 1 FILE NO. 1
RECORD 15 LENGTH 46
1983 7 3 16 393 3 13.2 0.7 120 38 15 0

МЕЖДУВЕДОМСТВЕННЫЙ ГЕОФИЗИЧЕСКИЙ КОМИТЕТ АН СССР
SOVIET GEOPHYSICAL COMMITTEE ACADEMY OF SCIENCES OF THE USSR

МИРОВОЙ ЦЕНТР
ДАННЫХ Б2

117296, Москва, ГСП-1,
Молодежная ул., 3; тел. 130-05-46

Ref. No. 176



WORLD DATA
CENTER B2

Molodezhnaya, 3, Moscow, 117296, USSR
Tel. 130-05-46

« 30 » October 1989 г.

Dr. J.H. King
Head

Central Data Services Facilities
N S S D C
NASA/GSFC, Code 630.2
Greenbelt, MD 20771
U.S.A.

Dear Doctor King:

Please find enclosed a tape containing Prognoz 10 plasma data.

Sincerely yours,

A. Feldstein

A. Feldstein

Enclosure: tape, partial listing of the tape,
tape description.

Hourly solar wind parameters
on board "Prognoz 10" satellite

Prognoz 10 satellite was launched in the frames of INTERSHOCK project and worked from April 1985 till October 1985. Project scientific leaders: A. Galeev (USSR, Space Research Institute (SRI) and S. Fischer (CSSR, Astronomical Institute). Plasma measurements presented below were made by BIFRAM spectrometers array (responsible - G. Zastenker, SRI). Data were processed in SRI (responsible - G. Zastenker).

Data presented as one file on NL tape, EBCDIC, 1600 bpi density, RECFM = F, BLKSIZE = 80. Due to instrument failure only flux of ions and their arrival angles are available for June-October data. The whole set of data (ions flux F, angles of arrival Θ and Ψ , protons velocity V, protons temperature T and ions density N) is available only for April-May.

<u>Parameter</u>	<u>Format</u>	<u>Description</u>
Month	I5	UT
Day	I4	UT
Hour	I4	UT (beginning of the averaging interval, i.e. "22" corresponds to data averaged between 22.00 and 23.00)
Angle Θ	F6.1	Flux of ions arrival angle in plane perpendicular to ecliptic plane, in degrees (" + " refers to arrival from north)
Angle Ψ	F6.1	Flux of ions arrival angle in ecliptic plane, in degrees (" + " refers to arrival from east, aberration is already taken into account)
F	E 10.2	Integral flux of ions, $\text{cm}^{-2} \text{s}^{-1}$
V	I 6	Bulk velocity of protons, km s^{-1}
T	F 6.1	Temperature of protons, eV
N	F 6.1	Plasma density, cm^{-3}
	28x	Blanks

|85-033A-02A/03A

PROGNOZ 10 DATA

4/30/85 - 10/4/85

(DATA AFTER 5/31 DO NOT INCLUDE

V, T or N) TAPE CONVERTED TO

ASCII TO GET THIS P/O.

	MONTH	DAY	HR	ANGLE	ANGLE	F	V	T	N
1	4	30	19	0.6	0.5	0.79E+09	504	14.5	13.8
2	4	30	20	-1.4	1.2	0.78E+09	581	5.9	17.7
3	4	30	21	-2.0	.2	0.78E+09	587	7.9	13.2
4	4	30	22	-1.9	-0.8	0.72E+09	600	5.7	12.1
5	4	30	23	-2.1	-0.6	0.71E+09	585	5.0	12.2
6	5	1	0	-1.8	-0.8	0.72E+09	550	6.1	12.3
7	5	1	1	-0.4	-1.4	0.77E+09	586	5.5	13.1
8	5	1	2	-1.3	-1.9	0.76E+09	586	5.2	13.0
9	5	1	3	-1.4	-1.9	0.78E+09	583	4.9	13.4
10	5	1	4	-1.5	-1.9	0.78E+09	582	4.9	13.4
11	5	1	5	-0.9	-1.8	0.74E+09	570	4.7	13.9
12	5	1	6	-1.2	-1.8	0.79E+09	560	5.0	14.1
13	5	1	7	-1.5	-1.8	0.71E+09	561	5.3	12.7
14	5	1	8	-1.8	-1.7	0.68E+09	565	5.5	11.5
15	5	1	9	-0.2	1.6	0.66E+09	560	7.4	11.9
16	5	1	10	0.6	0.4	0.65E+09	554	6.1	11.7
17	5	1	11	-0.3	-1.2	0.61E+09	564	7.0	10.9
18	5	1	12	-0.5	-1.2	0.62E+09	555	6.4	11.1
19	5	1	13	-0.1	-0.4	0.60E+09	549	9.1	11.0
20	5	1	14	-1.5	1.1	0.64E+09	543	10.5	11.8
21	5	1	15	0.1	1.1	0.48E+09	446	4.4	10.9
22	5	1	16	-0.1	1.9	0.49E+09	413	3.4	11.6
23	5	1	17	-0.8	-1.9	0.56E+09	507	4.6	10.9
24	5	1	18	-1.1	-1.2	0.56E+09	513	4.7	10.9
25	5	1	19	-1.2	-1.2	0.56E+09	504	4.6	11.2
26	5	1	20	-1.4	-1.1	0.56E+09	493	4.7	11.4
27	5	1	21	-1.2	-1.1	0.57E+09	491	4.6	11.6
28	5	1	22	-1.5	-1.1	0.56E+09	516	7.7	10.9
29	5	1	23	-2.4	-1.7	0.56E+09	519	6.3	10.9
30	5	2	1	-1.1	1.8	0.63E+09	520	4.3	12.0
31	5	2	1	-2.0	-1.2	0.66E+09	485	5.1	11.6
32	5	2	2	-3.7	-2.2	0.69E+09	488	5.6	14.2
33	5	2	3	-2.8	-1.8	0.78E+09	476	3.4	16.4
34	5	2	4	-2.8	-1.1	0.76E+09	475	5.1	15.6
35	5	2	5	-2.7	1.3	0.70E+09	485	7.5	14.5
36	5	2	6	-1.5	3.1	0.78E+09	478	16.7	16.2
37	5	2	7	0.5	3.2	0.82E+09	464	15.5	17.7
38	5	2	8	1.3	2.4	0.78E+09	463	16.1	16.5
39	5	2	9	-1.1	1.4	0.78E+09	465	13.3	16.8
40	5	2	10	-0.6	3.3	0.82E+09	-	-	-
41	5	2	14	-0.1	2.6	0.48E+09	-	-	-
42	5	2	15	-0.6	1.2	0.48E+09	-	-	-
43	5	2	16	-1.2	1.2	0.50E+09	464	16.0	18.9
44	5	2	17	-1.1	0.4	0.50E+09	468	12.9	10.7
45	5	2	18	-0.9	0.5	0.52E+09	473	10.1	11.0
46	5	2	19	-1.7	1.2	0.52E+09	475	10.9	10.8
47	5	2	20	-0.7	0.4	0.53E+09	471	10.6	10.6
48	5	2	21	-1.1	0.1	0.52E+09	469	7.0	11.0
49	5	2	22	-1.4	-0.3	0.55E+09	470	7.4	11.7
50	5	2	23	-1.4	-1.3	0.53E+09	465	12.9	11.4
51	5	3	0	-1.7	0.3	0.53E+09	473	9.8	11.1
52	5	3	1	-1.8	0.4	0.53E+09	466	11.8	11.4
53	5	3	2	-2.1	0.1	0.53E+09	464	11.1	11.4
54	5	3	3	-1.8	0.0	0.54E+09	465	11.5	11.7
55	5	3	4	-1.2	-1.2	0.56E+09	464	9.9	12.0
56	5	3	5	-1.2	0.4	0.56E+09	467	10.5	12.0
57	5	3	6	-2.2	0.9	0.59E+09	465	12.3	12.7
58	5	3	7	-3.5	-1.1	0.54E+09	463	12.2	11.7

523	5	30	18	-3.8	5.7	0.61E+09	294	4.4	20.8
524	5	30	19	-3.9	4.9	0.65E+09	297	4.3	22.0
525	5	30	20	-3.7	3.6	0.64E+09	292	4.3	22.0
526	5	30	21	-3.5	3.4	0.70E+09	305	3.7	22.9
527	5	30	22	-3.4	3.4	0.74E+09	310	3.2	24.0
528	5	30	23	-2.1	4.1	0.76E+09	309	3.3	22.6
529	5	31	1	-2.6	6.2	0.59E+09	305	3.6	19.4
530	5	31	1	1.2	5.6	0.65E+09	317	5.4	20.4
531	5	31	2	2.6	1.2	0.60E+09	339	4.0	17.7
532	5	31	3	4.4	0.5	0.66E+09	340	3.8	15.3
533	5	31	4	2.3	2.7	0.65E+09	347	3.1	18.6
534	5	31	5	2.3	3.4	0.71E+09	346	3.6	20.5
535	5	31	6	0.5	3.2	0.68E+09	358	2.5	19.0
536	5	31	7	1.6	2.2	0.72E+09	351	2.7	20.4
537	5	31	8	0.5	1.1	0.75E+09	369	2.5	20.3
538	5	31	9	0.0	0.9	0.73E+09	400	1.9	18.2
539	5	31	12	-1.5	1.2	0.67E+09	338	2.9	19.8
540	5	31	13	-2.4	2.3	0.63E+09	328	3.0	19.2
541	5	31	14	-2.2	2.0	0.56E+09	321	3.0	17.5
542	5	31	15	-4.3	2.1	0.49E+09	310	3.1	15.8
543	5	31	16	-5.9	1.6	0.52E+09	305	3.4	17.0
544	5	31	17	-5.4	3.5	0.52E+09	311	3.3	16.6
545	5	31	18	-5.2	2.4	0.52E+09	312	3.2	16.7
546	5	31	19	-5.9	2.1	0.55E+09	318	3.0	18.6
547	5	31	20	-7.2	2.5	0.76E+09	327	3.0	23.3
548	5	31	21	-4.0	1.2	0.91E+09	364	2.2	25.0
549	5	31	22	-6.0	2.2	0.88E+09	330	2.9	26.8
550	5	31	23	-7.0	4.6	0.91E+09	326	3.0	27.9
551									
552	6	1	1	-6.5	4.0	1.07E+08			
553	6	1	1	-7.8	2.4	9.14E+08			
554	6	1	23	1.3	0.8	3.27E+08			
555	6	2	0	2.3	1.4	3.25E+08			
556	6	2	1	4.7	2.6	3.17E+08			
557	6	2	2	2.8	3.3	3.28E+08			
558	6	2	3	3.3	2.0	3.38E+08			
559	6	2	4	3.0	2.5	3.05E+08			
560	6	2	5	3.1	1.8	3.25E+08			
561	6	2	6	3.0	2.1	3.26E+08			
562	6	2	7	1.7	1.1	3.15E+08			
563	6	2	8	1.6	0.9	3.06E+08			
564	6	2	10	-1.2	-0.1	2.28E+08			
565	6	2	11	-1.0	1.4	3.22E+08			
566	6	2	12	-1.1	2.1	3.13E+08			
567	6	2	13	-1.9	0.2	3.31E+08			
568	6	2	14	-1.7	0.1	3.26E+08			
569	6	2	15	-1.9	-0.5	3.32E+08			
570	6	2	16	-1.3	-0.4	3.38E+08			
571	6	2	17	-1.7	-0.0	3.50E+08			
572	6	2	18	-1.6	-0.2	3.26E+08			
573	6	2	19	-0.5	-0.2	3.73E+08			
574	6	2	20	-0.6	-0.4	3.00E+08			
575	6	2	21	0.1	-0.4	3.01E+08			
576	6	2	22	0.0	-0.5	2.98E+08			
577	6	2	23	0.3	-0.1	2.92E+08			
578	6	3	0	0.3	-0.5	2.97E+08			
579	6	3	1	0.6	-0.3	3.04E+08			
580	6	3	2	0.1	-0.6	3.17E+08			

PROGNOZ 10

HOURLY AVERAGED ENERGETIC E-, H+ AND HE++

85-033A-02A **SPMS-00239**

10-MIN B FIELD VECTOR

85-033A-03A **SPMS-00088**

HR-AVG B AND ENERGETIC E-, H+, HE++

85-033A-03B **SPMS-00239**

This data set catalog consists of one magnetic tape. This tape is 9-track, 1600 BPI, multi-filed and labelled. The first data file (physical file 2) contains data from data sets 85-033A-02A and 85-033A-03B. The second data file (physical file 5) contains data from data set 85-033A-03A. There doesn't seem to be a trailer file for data set 85-033A-03A. The D and C numbers, along with the time spans are as follows:

D#	C#	FILES	TIME SPAN	DATA SET
D078142	C026718	1-3	04/26/85 - 11/04/85	85-033A-02A, 03B
		4-5	04/27/85 - 11/04/85	85-033A-03A

Description of the magnetic tape PR10V1

The magnetic tape VOL=SER=PR10V1 contains two data sets with standard IBM labels and density ¹⁶⁰⁰800 bpi.

1st data set (85-033A-02A)

DSN=PR10.AVG, LABEL=1, DCB=(RECFM=FB, LRECL=72, BLKSIZE=3600)

The data set contains hourly averaged selected measurements by the Prognoz 10-Intercosmos satellite in the interval 26.04. 1985-5.11.1985.

Content of a record:

bytes	type	name	description
1-2	I*2	Y	year
3-4	I*2	DOY	day of year (0=January 1)
5-8	I*4	TMS	UT in ms
9-12	R*4	P1	proton flux in $\text{cm}^{-2} \text{s}^{-1} \text{sr}^{-1} \text{MeV}^{-1}$ in the interval 0.9-3.9 MeV by the TP-3 instrument
13-16	R*4	P2	proton flux in $\text{cm}^{-2} \text{s}^{-1} \text{sr}^{-1} \text{MeV}^{-1}$ in the interval 3.9-5.9 MeV by the TP-3 instrument
17-20	R*4	P3	proton flux in $\text{cm}^{-2} \text{s}^{-1} \text{sr}^{-1} \text{MeV}^{-1}$ in the interval 5.9-20 MeV by the TP-3 instrument
21-24	R*4	A1	helium flux in $\text{cm}^{-2} \text{s}^{-1} \text{sr}^{-1} (\text{MeV}/\text{nucl})^{-1}$ in the interval 0.6-3.8 MeV/nucl by the TP-3 instrument
25-28	R*4	A2	helium flux in $\text{cm}^{-2} \text{s}^{-1} \text{sr}^{-1} (\text{MeV}/\text{nucl})^{-1}$ in the interval 3.8-5.7 MeV/nucl by the TP-3 instrument
29-32	R*4	A3	helium flux in $\text{cm}^{-2} \text{s}^{-1} \text{sr}^{-1} (\text{MeV}/\text{nucl})^{-1}$ in the interval 5.7-19 MeV/nucl by the TP-3 instrument
33-36	R*4	DR	flux of electrons with energy > 30 keV in $\text{cm}^{-2} \text{s}^{-1} \text{sr}^{-1}$ in the solar direction by the DOR-R instrument
37-40	R*4	DO	flux of electrons with energy > 30 keV in $\text{cm}^{-2} \text{s}^{-1} \text{sr}^{-1}$ in the antisolar direction by the DOR-0 instrument
41-44	R*4	X	coordinates and distance of the satellite in the geocentric solar ecliptic (GSE) system in km
45-48	R*4	Y	
49-52	R*4	Z	
53-56	R*4	R	
57-60	R*4	BX	components and magnitude of the magnetic field in GSE system in nT
61-64	R*4	BY	
65-68	R*4	BZ	
69-72	R*4	B	

The undetermined /missing/ values are labelled as -10^{50}

The TP-3 instrument had the geometric factor $0.72\text{cm}^2\text{sr}$ and solid angle view 50° , two identical DOR instruments had the geometric factor $0.1\text{cm}^2\text{sr}$ and solid angle view 150° . The detailed description is in Intershock Project, Publication No. 60 of the Astronomical Institute of the Czechoslovak Academy of Sciences, ed. S. Fischer, Ondřejov, 1985.

2nd data set (85-033A-03A)

DSN=PR10.AVMGF,LABEL=2,DCB=(RECFM=FB,LRECL=52,BLKSIZE=4680)

The data set contains 10 min averages of the magnetic field measured by the Prognoz 10-Intercosmos satellite in the interval 27.04.1985-4.11.1985.

Content of a record

bytes	type	name	description
1-2	I*2	Y	year
3-4	I*2	DOY	day of year /0=January 1/
5-8	I*4	TMS	UT in ms
9-12	R*4	X	coordinates of the satellite in the geocentric solar ecliptic /GSE/ system in km
13-16	R*4	Y	
17-20	R*4	Z	
21-24	R*4	BX	components of the magnetic field in GSE system in nT
25-28	R*4	BY	
29-32	R*4	BZ	
33-36	R*4	DBX	standard deviation of the components of the magnetic field in nT
37-40	R*4	DBY	
41-44	R*4	DBZ	
45-48	R*4	B	magnitude of the magnetic field in nT
49-52	R*4	DB	standard deviation of the magnitude of the magnetic field in nT

The undetermined /missing/ values are labelled as -10^{50} .

This data set has been sent to the WDC's but we revealed that due to the mistake in the formula standard deviations were underestimated. Therefore we repeat this data set with corrected standard deviations.

Note: The instrument DOR-R had a failure during 29.06.1985 - 11.07.1985 and 30.07.1985 - 21.08.1985 and showed an increased level of flux.

THE CONTENT OF THE MAGNETIC TAPE

1

DIAGNOSTICKY PROGRAM PRO MAGNETICKOU PASKU

DATE: 871313

SKIP TO CHANNEL 01

STRANA: 1

* PUNKOBI DT PARAMETRY: NTM *

LABELS

*** J MENOVKY *** VUL1PR10V10 BANKOVA
 HDR1PR10,AVG PR10V100010001 67303 000000000000
 HDR2F036000007220GENER /GO B

TAPE MARK
 TM

DATA SET	NO. OF DATA SET	NUMBER OF BLOCKS	MAX. LENGTH OF BLOCK
*** SOJBOR DAT ***	CISLO SOJBORU 1 MENA NEZ 18 BYTUJ CHYBY V PRIC,PARITEJ CHYBY V KOLMOSTI ERRORS - NO IN READING	POSET BLOKUI 93 MENA NEZ 12 BYTUJ CHYBY V PODEL,PARITEJ OPAKOVANA CTENI 11 ERRORS - NO IN READING	MAX,DELKA BLOKUI 3600 RUSIVE INFORMACEJ CHYBY V CYKL,PARITEJ OPAKOVANA CTENI 21 ERRORS - NO IN READING

TM

*** J MENOVKY *** EUP1PR10,AVG PR10V100010001 67303 000000000093
 EUP2F036000007220GENER /GO B

TM

*** J MENOVKY *** HUN1PR10,AVMGF PR10V100010002 67309 693650000000
 HDR2F046000005220GENER /GO B

TM

SOJBOR DAT	CISLO SOJBORU	POSET BLOKUI	MAX,DELKA BLOKUI
***	2	215	4080

MENA NEZ 18 BYTUJ
 CHYBY V PRIC,PARITEJ
 CHYBY V KOLMOSTI
 MENA NEZ 12 BYTUJ
 CHYBY V PODEL,PARITEJ
 OPAKOVANA CTENI 11
 RUSIVE INFORMACEJ
 CHYBY V CYKL,PARITEJ
 OPAKOVANA CTENI 21

TM

*** J MENOVKY *** EUP1PR10,AVMGF PR10V100010002 67309 6936500000216
 EUP2F046000005220GENER /GO B

TM

TM

DUMP OF TAPE SOUT61

INPUT TAPE SOUT61 ON TR0
 DATA INPUT H9 NF 5 FL 1 1 1 FL 2 1 1 FL 3 1 1 FL 4 1 1 FL 5 1 1

Prognor-10
D78142
046-185-11/03/85
-5 Files
85-033A-01A, 03B

FILE	1	RECORD	LENGTH	80BYTES
(0)	E5D6D3F1	D7D9F1F0	E5F1F0F0	40404040 40404040 40404040 40404040 40404040 40404040
(40)	40E2C1D4	D2D6E5C1	40404040	40404040 40404040 40404040 40404040 40404040 40404040

FILE	1	RECORD	3	LENGTH	80BYTES
(0)	C8C4D9F2	C6F0F3F6	F0F0F0F0	F0F7F2F2	F0C7C5D8 C5D94040 4061C7D6 40404040 40404040 4040C240
(40)	40404040	40404040	40404040	40404040	40404040 40404040 40404040 40404040 40404040 40404040

FILE	INPUT	DATA RECORDS	MAX.	READ ERROR SUMMARY	INPUT RETRIES
	RECS.	INPUT	SIZE	PERM ZERO R SHORT UNDEF.	#RECS. TOTAL#
1	3	4	80	0 0 0 0	0 0

FILE	2	RECORD	1	LENGTH	3600BYTES
(0)	07C10073	01B77400	EA446C3B	EA446C3B	EA446C3B EA446C3B EA446C3B EA446C3B EA446C3B EA446C3B
(40)	4447B248	441730CF	44489F90	4468E4C0	EA446C3B EA446C3B EA446C3B EA446C3B EA446C3B EA446C3B
(80)	EA446C3B	EA446C3B	EA446C3B	EA446C3B	EA446C3B EA446C3B EA446C3B EA446C3B 445A7B88 4430912A
(120)	446804C2	44972CAD	EA446C3B	EA446C3B	EA446C3B EA446C3B 07C10073 02255100 4332C8F9 427F9B3C
(160)	41AC18EC	421G14AA	41375879	405442C8	4438383A 442CEAD8 4469A608 4466DE38 44854622 44C6D732
(200)	EA446C3B	EA446C3B	EA446C3B	EA446C3B	07C10073 02503F80 433A7847 428B5C88 41C7A558 4210F77D
(240)	4138C8E5	40579A37	44371B10	4428D9C7	44747780 448C1040 449D0CB5 44F08F40 EA446C3B EA446C3B
(280)	EA446C3B	EA446C3B	07C10073	02932E00	EA446C3B EA446C3B EA446C3B EA446C3B EA446C3B EA446C3B
(320)	EA446C3B	EA446C3B	447CABAD	44AE1D28	44B14220 45116053 EA446C3B EA446C3B EA446C3B EA446C3B
(360)	07C10073	02CA1C80	43467133	4294F0D0	41C4BC4F 4211786E 4132B35F 40494FD9 4431F7F9 4420842C
(400)	4483187J	44CDA390	44C2E22A	45138322	EA446C3B EA446C3B EA446C3B EA446C3B 07C10073 03010800
(440)	4344762C	42915FBF	41BFEB9E	4210586E	412ECA1B 40437CCE 442F9708 442E3A48 448837C0 44FB1000
(480)	44D28448	45157862	EA446C3B	EA446C3B	EA446C3B EA446C3B 07C10073 0337F980 433E9C08 42885316
(520)	41B21C18	41E8FC67	412A915F	40404017	4430A3DA 442EDEF4 448C5649 45106809 44E289F0 45174FF4
(560)	EA446C3B	EA446C3B	EA446C3B	EA446C3B	07C10073 036EE800 43233C78 4236CCBD 41463237 4159AE79
(600)	40E096E8	40163779	44102613	44130F7D	448FA7B5 451208FA 445D385A 451905DD EA446C3B EA446C3B
(640)	EA446C3B	EA446C3B	07C10073	03A5D680	431D19A6 42312C7C 413EFD35 415530C9 40CD83F8 40137544
(680)	43DE271D	43F3130E	449250F0	451396A2	44F8C1E5 451AA0E7 EA446C3B EA446C3B EA446C3B EA446C3B
(720)	07C10073	03DCC500	431D99EA	422FE2A7	4138E205 41569754 40C8247D 401288D1 43DE26F5 43EE0E33
(760)	44946D18	45150D3D	451034C0	45102402	EA446C3B EA446C3B EA446C3B EA446C3B 07C10073 04138380
(800)	43154103	421EA730	41276870	4135A8BF	4075C1DA 3FC1987A 43918584 43A0A6CE 449610F0 4516719C
(840)	4510CF6F	451D918C	EA446C3B	EA446C3B	EA446C3B EA446C3B 07C10073 044AA200 4311AD33 4219FDD0
(880)	41216D40	412E967B	405E06D8	3F58AA27	436FD8E4 427E1E04 44974CB0 4517C53C 45115D84 451EEB71
(920)	EA446C3B	EA446C3B	EA446C3B	EA446C3B	07C10073 04819080 42E1DDF7 42157248 411B8092 412C349A
(960)	4054BC68	3F85BE57	4362A961	436A0275	44982D50 4519095C 4511E041 45203345 EA446C3B EA446C3B
(1000)	EA446C3B	EA446C3B	07C10073	04B87F00	42BA9602 4212175A 41180512 412770D9 404C10F9 3F78B078
(1040)	4346E878	434FFA4A	4498BD48	451A3F0B	451258A9 45216A63 EA446C3B EA446C3B EA446C3B EA446C3B
(1080)	07C10073	04EF6D8D	42377FE4	42111FE3	41168FB5 41294E32 40400328 3E7CA158 434C24F7 43502DAF
(1120)	44990552	451B6732	4512C794	452291E8	EA446C3B EA446C3B EA446C3B EA446C3B 07C10074 00000000
(1160)	42B66094	4210E223	411598E1	4125ER34	0402D37C 3F6E9379 434277FD 434B6D17 44990CAA 451C8297
(1200)	45132DB9	4523AAD8	EA446C3B	EA446C3B	EA446C3B EA446C3B 07C10074 0036EE80 429C6076 41DEF478
(1240)	4111B942	411A9808	40312883	3F548825	4339748C 433F848F 4498D960 451D91E3 451388B6 45248602
(1280)	EA446C3B	EA446C3B	EA446C3B	EA446C3B	07C10074 006DD000 42915734 41CF6E87 41104056 4119AFF0
(1320)	402CA9A5	3F4D9604	4336EC09	433C3F4B	449670B2 421E95C6 4513F212 4525B426 EA446C3B EA446C3B
(1360)	EA446C3B	EA446C3B	07C10074	00A4C880	42873D60 418CF6FA 40F00500 41175C2D 4028A20A 3F4651ED
(1400)	4342D322	433ECA1E	4497D722	451F8EAE	45143146 4526A5E9 EA446C3B EA446C3B EA446C3B EA446C3B
(1440)	07C10074	00DBA000	4285063C	41AE5CF8	40D78B58 41153598 402529B5 3F4690F9 433B35E8 433B81C9
(1480)	44971090	452C7D1C	45147988	45278BDE	EA446C3B EA446C3B EA446C3B EA446C3B 07C10074 0112A880
(1520)	42811125	41A8C7A6	40D92919	411592C5	402649A1 3F46B080 4331A102 433686A9 44961EB0 45216183
(1560)	45148BC7	4528668A	EA446C3B	EA446C3B	EA446C3B EA446C3B 07C10074 01499700 428AE326 41E0E6FA
(1600)	40F3975E	41180597	4039F18A	3F49ED36	43341060 43388C60 44950620 45223C39 4514F7C2 4529365F
(1640)	EA446C3B	EA446C3B	EA446C3B	EA446C3B	07C10074 01888580 4276CDE0 419A81A7 40CC4D67 4112CA31
(1680)	40248DE5	3F446942	433093EE	43349ACC	44930B10 45230D8D 45152DF4 4529F8C5 C14A1110 411B93D3
(1720)	C13405D6	416D0C38	07C10074	01B77400	427AE542 41A43827 40Q40FDD 41151C2F 40235E37 3F4125C8
(1760)	432F48B8	433353A4	44926E6D	4523D5D5	45155E95 452AB71A C13B7178 4120FDCE C153DBA0 4173E2AD
(1800)	07C10074	01EE6280	4261486A	418C456A	408D15FD 4111012A 402C762F 3E439C55 433045E3 432E8F54

(3960)	44790CE3	452AEF92	45163694	C1721316	411C10AB	C1206C1D	400D76AB	412D7272	4128CFCD	41890516
(4000)	411776D1	07C10074	046E4100	44789D8F	452B0045	45163533	C174681A	4118793C	C12E4280	42F94685
(4040)	41288217	412C61FA	41006781	4114154A	07C10074	0478680C	44782DB8	452B1005	451633F9	C16FH0D0
(4080)	4115A251	C11DEAAF	408D1E7B	41289276	41271647	41840908	4114F8C5	07C10074	04819080	4477C3AB
(4120)	452B2105	45163225	C17906A7	4128848F	C1112A3C	4798818D	412430D0	411FD38F	418880E9	41121F72
(4160)	07C10074	048AB840	4477520F	452E3122	45163077	C178E2D4	41203E60	C08FD708	4089A64E	411A588B
(4200)	411F3E2A	4187942B	40D73804	07C10074	0493F000	4476E1A0	452B4110	45162EAF	C17C298D	412495A1
(4240)	C0243588	406B4960	4115D25B	4117C0DE	4185DE9E	41976142	07C10074	049D0700	44767E1E	452B508B
(4280)	45162CCE	C174097D	4114ED39	C04E9397	40879D6E	41186F82	4118DE0E	4178CE63	40A2AFE5	07C10074
(4320)	04A62F8D	44760356	452B6047	45162AD2	C1759F08	4112909F	4114E477	405FFF27	411377AF	411R536F
(4360)	417E22CB	408561C8	07C10074	04AF5740	44759125	45286FA3	451628BE	C1780E08	4095DC58	408D92E9
(4400)	4063B145	41159778	4112CAE8	417CC0E1	40763875	07C10074	04887F00	4475244E	452B7F8C	4516268F
(4440)	C1752841	4118D32C	4113D2F7	40505E84	4112F10F	41142C9B	417CE049	408171C1	07C10074	04C1A6C0
(4480)	4474B0A9	452B80B4	45162448	C1703B12	4122A07E	411F7C8C	40561341	41158454	4111DE31	417CD7E4
(4520)	4093A639	07C10074	04CAC280	44743C8E	452B9C7E	451621E6	C1668ED8	412B4480	411D02R2	4040171D
(4560)	4114DE30	41119D0D	41769C34	407E3169	07C10074	0403F640	4473CE48	452B8005	45161F6C	C1690A75
(4600)	413FD512	40E4D0B6	40B087D6	4115EBCC	411514D8	417F5FC3	409FF8A0	07C10074	04DD1E00	44735948
(4640)	4529B95D	45161CD9	41384440	C1128979	C178EBCF	411F6D89	413D30D0	41253F53	419ED00D	4116F891

FILE	RECORD	215	LENGTH	4472	BYTES					
(0)	07C10133	0209D9C0	C4656964	C52C59DA	44E6C4E6	C133EF97	40F0DF1A	407A1D88	41106271	4121EEFA
(40)	411B27CD	41477BF7	411210E9	07C10133	02130180	C464BC87	C52C50FA	44E5923A	C14000CF	C1252C88
(80)	C122281C	406FC875	41110D49	4111B4RC	41551022	40CA0F67	07C10133	021C2940	C464158C	C52C47D1
(120)	44E45E62	C136EFA3	C069749E	C1118176	40797B24	411E4435	41186ABE	41469D33	40D5CC6D	07C10133
(160)	02255100	C46367C8	C52C3E7E	44E32950	C1264E5A	411DD268	41268DF3	40960C6B	4114CBF5	412219A0
(200)	414851E1	40BB787E	07C10133	022E78C0	C462B948	C52C34E1	44E1F316	C126E0A5	411BE1D8	41317461
(240)	40A31D84	4114E934	4112C61C	414A488A	40F0A093	07C10133	0237A080	C46210E2	C52C2B1B	44E0B8AA
(280)	C1323E91	41132F3E	4118FA62	40D635FF	41208754	41277E15	414EAA84	41193B8A	07C10133	0240C840
(320)	C4616155	C52C211B	44DF8313	C12F9825	4114A8F5	40633E1A	40A80C16	412353E0	41219C1E	4147012F
(360)	4117292A	07C10133	0249F000	C460B13E	C52C16E0	440E4943	C129E253	411261FF	C09EFD8D	40A3BD26
(400)	41321996	412C9761	41404346	41249029	07C10133	02331700	C460072F	C52C0C5B	44DD0E4D	C1244AC5
(440)	4118D3C9	C05888EE	40A085A3	41247EC5	4124715C	4143A5FC	41178917	07C10133	02503F80	C45E5603
(480)	C52C01AA	44DBD22F	C13AC885	C015FC11	C11CE03E	4045084E	40A85375	40DD58F9	41441179	406610CF
(520)	07C10133	02656740	C45EA458	C52BF68F	44DA94DD	C139D98E	C07963F7	C0EFC351	403045AC	40DD65E6
(560)	40C9E9A4	413F1740	405F8614	07C10133	026E8F90	C45DF8AA	C52BE88A	44D95665	C13980EB	C0E05608
(600)	C0BE98FB	43414903	40D30785	40B54553	413F1C03	405EBC74	07C10133	027786C0	C45D45E4	C52BE029
(640)	44D816BE	C12CD396	C118F8C1	40812184	4058D106	40EEB964	4114512C	4139C288	40CAC3A0	07C10133
(680)	0280DE80	C45C929A	C52B048B	44D6D5EC	C12C3857	C121A602	C0E2230D	404FDD38	40AA1009	411C95A6
(720)	4141C8FB	408BAECA	07C10133	028A0640	C45BE54F	C528C8A3	440593EB	C12DCC6B	C11C6059	C118D47E
(760)	4032CD4A	40884EDD	4084BBA4	413C80EC	404F61E3	07C10133	02932E00	C45B30F6	C52B8C8F	44D450C3
(800)	C12CA915	C121FC57	C11146ED	4040A797	40E257F3	40FD278E	41309808	40802269	07C10133	029C55C0
(840)	C45A7C15	C52BB03E	44D30C67	C126465D	C12B024D	C112F42E	4063084A	40930F58	4087CF08	413E005B
(880)	406D52F3	07C10133	02A57D80	C459CD28	C52BA3A2	44D1C6EB	C1219287	C1358ECB	C0D4EC30	4074AF5A
(920)	40CF66DAB	40C61454	4143A1C1	409E0B75	07C10133	024E5A54	C4591736	C52B96D9	44D08043	C12C2E33
(960)	C11B3722	C114466E	403CD477	40BC7862	4085D48E	4139BE40	405E3A98	07C10133	02B7CD00	C458608B
(1000)	C52B89CF	44CF3871	C12A9F61	C0995D06	C1131512	40A71318	411800B1	41119EDA	4138F3E4	40E2A7A8
(1040)	07C10133	02C0F4C0	C457803A	C52B7C7F	44CDEF6D	C130EDR6	C0CC8E8F	C1155061	4041D489	40A67211
(1080)	4197C843	4138BEE1	40641B5A	07C10133	02CA1C80	C456F8AA	C52B6EFC	44CCA540	C12CEDAA	C0E72C1F
(1120)	C0793F41	40D20E93	411F9608	41216823	413FB8C1	411ADA31	07C10133	02D34440	C4564099	C52B613D
(1160)	44CB5A01	C054C572	411999CC	C111AD3R	41355072	41604D3F	41535AC2	41799346	4154FF0D	07C10133
(1200)	02DC6C00	C4558E7C	C52B5333	44CA0D87	C0341FCF	413895C6	C01748B7	411AC6C9	413153FC	41318F73
(1240)	41566C5F	4123826C	07C10133	02E593C0	C454D55D	C52B44F7	44C8BEED	C1153864	4126450A	40883F8D
(1280)	40FD4E01	412A654E	412A2261	411F4234	07C10133	02EE8B80	C4541B8A	C52B367D	44C77125	
(1320)	C1125891	41239758	401D7FD7	40EF7E7C	41323F5D	4130A7E1	414E988F	41236DDF	07C10133	02F7E340
(1360)	C45367F5	C52B27B9	44C6213C	C076984E	4130702D	405A48B1	41136AA6	412B6EA5	41297D73	414CEAEA
(1400)	412047A4	07C10133	030108D0	C452AD48	C52B18C0	44C4D027	C04E89DD	4131F056	4039EC48	4118FE70
(1440)	412651D5	412E1779	414DDDD0	4124970F	07C10133	030A32C0	C451F208	C52B098A	44C37DF1	C04C728F
(1480)	413D8917	C0F902D0	411654AD	413652FA	412FC1FA	415D3711	412A935E	07C10133	03135A80	C4513CB5
(1520)	C52AFA07	44C22A8D	4081C2C6	413F8292	40782611	411A00C9	4129DE55	411FD06E	4151591A	41246653
(1560)	07C10133	031C824C	C4508059	C52AEAE3	44CDD60A	411A4E48	41385376	C03D6E61	411CED7F	412B8879
(1600)	412470B9	4157A575	4121C542	07C10133	0325AA00	C44FC3A1	C52ADA5D	44BF8061	41455E71	413E2D2E
(1640)	40AE58A4	403CC874	4074808A	407A212C	415E0CDD	404F9266	07C10133	032ED1C0	C44F0CB4	C52ACA1A
(1680)	44BE298E	414218E4	413F52CB	40988F72	40808689	4093346B	40A42A7F	415D5E46	406C429C	07C10133
(1720)	0337F980	C44E4ED7	C52AB9A5	44BCD19C	41465803	414231D1	41111BBB	4089FD25	40790D07	40A19988
(1760)	415F249C	4058997E	07C10133	0341214C	C44D9078	C52AA8EC	44BB7883	412FB0DE	4150C9F2	C01C8697
(1800)	40E9AE41	41136813	411010F8	4160AC08	4113AC7D	07C10133	034A4500	C44C07E7	C52A97F9	44BA1F4R