[redacted]

561

PROGNOZ 9

83-067A-03B

5-MINUTE AVERAGED MAGNETOMETER

PROGNOZ 8

80-103A-02A

8 MIN PROTON AND ALPHA DATA

[redacted]

REQ.AGENT	ACQ. AGENT
JAR	HKH

PROGNOZ 9

5-MINUTE AVERAGED MAGNETOMETER

83-067A-03B

This data set consists of one 9-track, 1600 BPI, 52 files, binary magnetic tapes, created on IBM-360 computer. D and C numbers along with the time span are as follows:

D#	C#	TIME SPAN
D-79227	C-27026	07/03/83 - 02/10/84

Prognoz 9 magnetic field measurements

PROGNOZ 9 satellite was launched on July 1, 1983. It has 750 000 km apogee, 65 000 km perigee and 19 day rotation period. Magnetic field was measured by three-component magnetometer of accuracy 0.5 nT in the range 0 - 60 nT every 10,24 sec.

5 - minutes averaged B_x, B_y, B_z and module AB in GSE; B_y and B_z in GSM, B_x and B_z in SM are presented. Parameters β, θ, φ in GSE were calculated from 5 minutes averaged B_x, B_y, B_z in GSE.

Data from July 3, 1983 till February 10, 1984 are written on the tape. There are 52 files corresponding to 52 intervals of observations (See Appendix). Fixed length blocks of 8284 bytes constitute a file. All data in a block are 4-bytes, real, binary.

Block structure

1. Block number

2. Year	Moscow time
3. Month	
4. Day	
5. Hour	
6. Minute	
7. X GSE	Satellite coordinates
8. Y GSE	
9. Z GSE	
10. Y GSM	
11. Z GSM	
12. X SM	
13. Z SM	
14. B_x GSE	5-minutes averaged IMF components and module
15. B_y GSE	
16. B_z GSE	
17. AB	
18. β	
19. θ	
20. φ	
21. B_x GSM	
22. B_z GSM	
23. B_x SM	
24. B_z SM	

and so on.

90 such sets constitute a block (4 + 23 x 4 x 90 = 8.284). Data gaps mean:

- wrong measurements;
- absence of measurements;
- telemetry errors;
- absence of orientation data.

Attention

Y and Z components have artificial modulation with periods ~ 5 and ~10 hours due to unknown reason for the following intervals:

30.09 - 3.10
10.10 - 11.10
14.10 - 17.10
28.10 - 1.11
23.12 - 27.12

D-79227.
HEX DUMP.

DUMP OF TAPE J1-IN

INPUT TAPE J1-IN ON FT1
DATA INPUT H9 NF 52 FL 1 1 1 SR 52 1 1 SR 52 LAST 1

FILE 1 RECORD 1 LENGTH 8284 BYTES

(0)	41100000	42530000	41700000	41300000	41100000	421E0000	C213EC7D	C1D301A2	42217E6B	C211ADD3
(40)	421F576F	C21EABA2	4214F4E5	C159D659	4140E2B6	C13C8AEC	4183E8B2	417E4753	C21CA60D	42902939
(80)	41489909	C132FC54	C13E6598	C1524B29	42530000	41700000	41300000	41100000	42230000	C213F68C
(120)	C1D3719D	422189EA	C211B4B2	421F62C7	C21EA248	42151CFB	C154088D	412748F4	C14FFD1D	4180AC32
(160)	4179D62E	C2286A33	429AF1BB	4131C9C1	C148C9C2	C130C3FD	C163EC4B	42530000	41700000	41300000
(200)	41100000	42280000	C214009A	C1D3E17B	42219564	C211BAC5	421F6E8C	C21E98E9	42154574	C12CFAEC
(240)	413B1476	C165BAC1	418BC810	417DF254	C235DFA9	427F489B	41487FC7	C15C9879	C057FC22	C166CA2F
(280)	42530000	41700000	41300000	41100000	422D0000	C2140AA3	C1D45129	4221A0DA	C211C00C	421F7ABF
(320)	C21E8F86	42156E4E	C128C653	41568444	C172E3AF	41C5BFE5	41957D74	C232391E	42733BF7	4165703B
(360)	C165E0EE	4017D550	C16DB750	42530000	41700000	41300000	41100000	42320000	C21414AC	C1D4C0C8
(400)	4221AC4C	C211C460	421F8776	C21E855F	421598B3	C13082B3	413BE5B1	C188176E	41B78155	419C6721
(440)	C23C7966	42810100	414DEFB3	C17E910D	40343911	C1877930	42530000	41700000	41300000	41100000
(480)	42370000	C2141EB1	C1D5303E	4221B7B8	C211C80A	421F9485	C21E7BF8	4215C23D	C1423108	41346E9A
(520)	C1658EA0	41A152A7	418413A9	C23241E5	428D9DC6	4141C4C5	C15D6D09	C11A2BA0	C16F66EF	42530000
(560)	41700000	41300000	41200000	00000000	C21428B5	C1D59F92	4221C321	C211CAEA	421FA203	C21E7295
(600)	4215EC1B	C13BFD24	414245DC	C16B9D74	41ACD258	418BE5C7	C232492B	428426EE	41503BD9	C16196C1
(640)	C113560E	C170E016	42530000	41700000	41300000	41200000	41500000	C21432B5	C1D60EDC	4221CE86
(680)	C211CCC6	421FB00D	C21E6870	42161782	C139D899	415CB4BB	C142D8FD	419A9533	418C1928	C21F74C7
(720)	4279F68F	4164D941	C135B4B3	C121F9AB	C14734DB	42530000	41700000	41300000	41200000	41A00000
(760)	C2143CB5	C1D67DE7	4221D9E6	C211CE0B	421F8E64	C21E5F13	421641FA	C13E84C7	415818A5	C1446C32
(800)	4194FE34	417FDF2C	C225599D	427D5CA7	41607070	C137F6F0	C125DB26	C14ADDDB	42530000	41700000
(840)	41300000	41200000	41F00000	C21446B0	C1D6ECE4	4221E542	C211CE88	421FCD25	C21E55B8	42166CBB
(880)	C12B730D	41EC2A84	C129FEB4	4210D0CA	41F3C62F	C19EB790	42646CB6	41EF93C8	C0A27ECB	C124D6CC
(920)	C1191FF2	42530000	41700000	41300000	41200000	42140000	C2145CAC	C1D75BC5	4221F099	C211CDF0
(960)	421FDC7B	C21E4BA7	421698FC	C11CB2B1	415AC4AD	C151D2FB	418D9033	417D8788	C228AE0C	426B8B99
(1000)	4164C15D	C14516D5	C022A3A9	C14AC5FF	42530000	41700000	41300000	41200000	42190000	C2145AA2
(1040)	C1D7CA7E	4221FBEE	C211CCD7	421FEC13	C21E425D	4216C441	C11A1714	417819D7	C13DCB01	41900300
(1080)	41898FDF	C21AB142	4266419B	417F1DA1	C12D8044	C0863B86	C133EF2C	42530000	41700000	41300000
(1120)	41200000	421E0000	C2146497	C1D8390C	4222073C	C211CAF8	421FFC0E	C21E391E	4216EFBB	C1909458
(1160)	4177A5D7	C124EEBE	41DCDC3D	41BF4432	C1B222A4	428C63E8	417B649B	C1151165	C1802C6D	C1460C0A
(1200)	42530000	41700000	41300000	41200000	42230000	C2146E8B	C1D8A783	42221287	C211C853	4220DC70
(1240)	C21E2FEA	42171B6C	C1228047	41DFD446	C12FF6A1	421132A1	41E77EEE	C1BF529E	4262C33E	41E40B1A
(1280)	C112CE6B	C119EB3C	C11D96CC	42530000	41700000	41300000	41200000	42280000	C214787B	C1D915DE
(1320)	42221DCE	C211C481	42251D71	C21E2605	42174894	C11E88E4	41D13D11	C15ECEB8	41F80A44	41E7BC6D
(1360)	C2182642	42624D81	41DB84C0	C14367B8	C05BC58A	C149C2A7	42530000	41700000	41300000	41200000
(1400)	422D0000	C214826A	C1D98429	42222910	C211C04F	42202E9F	C21E1CF2	421774A3	C0488BD0	41F05B39
(1440)	C1722776	421189FC	421CA20A	C2196690	425B14AA	41FCB496	C152FF07	4117B498	C14FB2F9	42530000
(1480)	41700000	41300000	41200000	42320000	C2148C57	C1D9F238	4222344F	C211BB56	4220402F	C21E13ED
(1520)	4217A0DD	4178CA01	41E0CB4F	C18AD874	4212930B	42122848	C21C8CC8	423DBFD7	41F03846	C16DD4D8
(1560)	41968908	C13F5733	42530000	41700000	41300000	41200000	42370000	C2149641	C1DA6039	42223F89
(1600)	C211B523	422C5262	C21E0A41	4217CE81	4137BF73	41D161D5	C17138F2	41FD2FC4	41F4799A	C21B96C3
(1640)	424B1743	41DD9A6E	C156AF55	415136A8	C13F7BFC	42530000	41700000	41300000	41300000	00000000
(1680)	C214A027	C1DACE0D	42224ABF	C211AEA1	422064B3	C21E0164	4217FAFF	415722C8	41CDC6CB	C1886E6D
(1720)	4210A29D	4210D22	C21F67B8	42430CBD	41DCAB58	C16E8BCB	41766987	C14C383F	42530000	41700000
(1760)	41300000	41300000	41500000	C214AA0E	C1DB3BD1	422255F1	C211A761	42207762	C21DF8A3	42182795
(1800)	4153D0F1	41E31AE5	C1740316	42116A8D	4210C70F	C2199AF5	4245BE20	41EF3523	C1581E82	416BBB44
(1840)	C1387948	42530000	41700000	41300000	41300000	41A00000	C214B3F1	C1DBA968	4222611E	C2119ED2
(1880)	4228BAB8	C21DEF42	4218558C	4035EEE6	41CE2E6E	C159C1CB	4210A4C4	41E0E580	C21785AA	42591035
(1920)	41D73744	C140FA0B	4117E1CA	C13C6A3E	42530000	41700000	41300000	41300000	41F00000	C214BDD0
(1960)	C1DC16E5	42226C48	C211960E	4229E1F	C21DE6B1	4218824C	C19FF24F	41DE8446	402E7A56	42124F1F
(2000)	421120D9	409B79C4	427DB578	41DC9BB9	411C73E9	C1A0CF00	C1174383	42530000	41700000	41300000
(2040)	41300000	42140000	C214C7B0	C1DC845E	4222776E	C2118C8E	4220E1DD	C21DDE45	4218AF18	C16DF06A
(2080)	41DDE7C9	C1193238	42117FA1	41F8ECB3	C15CF36A	42745AFA	41DF44AD	3EF42892	C16880F0	C122025C
(2120)	42530000	41700000	41300000	41300000	42190000	C214D18D	C1DCF19F	4222828F	C2118250	4220C5F1
(2160)	C21DD5F5	4218DBEF	C1A0A4CB	41AFA8B0	4086E38E	41FC86C2	41EE3022	4120743F	4284718F	41AD9923
(2200)	411BCFE0	C1A16A2C	C116C1A3	42530000	41700000	41300000	41300000	421E0000	C214DB67	C1DD5EC1
(2240)	42228DAC	C21176A1	4220DA8A	C21DCD05	42190A30	C1AB8FB3	42117404	4130CB2E	4214D5FE	4214B5A8
(2280)	41877C97	42799CA8	4211033A	414ECF0E	C1BB64EE	411718D0	42530000	41700000	41300000	41300000

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( 6000) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
( 6040) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
( 6080) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
( 6120) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
( 6160) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
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( 7960) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
( 8000) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
( 8040) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
( 8080) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
( 8120) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
( 8160) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
( 8200) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
( 8240) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
( 8280) 00000000
```

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDEF.	INPUT RETRIES #RECS.	TOTAL#
52	9	10	8284	0	0	0	0	0	0

EOJ DUMP STOPPED AFTER FILE 52 # OF PERMANENT READ ERRORS 0

START TIME 04/07/89 10:54:26 STOP TIME 04/07/89 , 10:55:27

REQ. AGENT	RAND NO.	ACQ. AGENT

PROGNOZ 8

8 MIN PROTON & ALPHA DATA

80-103A-02A

THIS DATA SET CONSISTS OF 1 5.25", DOUBLE SIDED, HIGH DENSITY DISKETTE. THE BACKUP IS A 3.5", DOUBLE SIDED, HIGH DENSITY DISKETTE. THE D AND C NUMBERS, TIME SPANS, AND NUMBER OF FILES ARE AS FOLLOWS:

ORIGINAL DISKETTE #	BACKUP DISKETTE #	FILES	TIME SPANS
KF00057	15	4	12/30/80 - 07/25/81

Description of plasma measurements on board "Prognoz 8" satellite

Prognoz 8 satellite worked from December 30,1980 till July 25,1981. Satellite was equipped with two devices to measure solar wind plasma: energospectrometer SKS-04 [see Vaisberg O.L. et al., Cosmicheskie Issledovaniya, v.17, n 5, p.730, 1979] measured velocities and temperatures of protons and alpha-particles, fast spectrometer Monitor [see Zastenker G.N. et al., Cosm. Issl., v.20,n 6, p.900, 1982] measured total ion density. Accuracy of measurements is the following; velocity error less 2%, temperature error less 20%, density error less 20% [see Ermolaev Yu.I., Cosm. Issl., v.24, n 5, p.725, 1986].

Results of plasma experiments on board Prognoz 8 are described in numerous papers, the latest among them are Zastenker G.N. et al., Adv. Space Res., v.9, n 4, p.117, 1989 and v.8, n 9, p.171, 1988.

Temporal resolution of measurements is approximately 8 minutes [more precisely 492 seconds]. Gaps in the data are connected with information failures and periodical satellite entrances inside the magnetosphere.

Data presented at one high-density 5.25 inch diskette as four consecutive ASCII files. On PC display you can see a table with 11 columns in a row

Column	Contents
1-6	Moscow time [UT+3 hours] of the beginning of 8-minute interval of measurements for the subsequent data in the row; day, month, year, hour, minute,second.
7	Protons temperature [eV]
8	Protons velocity [km/s]
9	Alpha-particles temperature [eV]
10	Alpha-particles velocity [km/s]
11	Ions density [cm^{-3}]

K+0005 1

PROGNOZ 8

30	12	80	3	15	15	2.9	348	6.3	327	25.4
30	12	80	3	23	26	2.7	335	4.4	330	27.7
30	12	80	3	31	38	3.2	335	4.3	329	27.2
30	12	80	3	39	49	2.7	332	11.1	326	25.6
30	12	80	3	48	1	4.3	343	7.2	336	26.5
30	12	80	3	56	12	3.8	346	5.5	340	26.9
30	12	80	4	4	24	3.0	349	5.7	340	27.1
30	12	80	4	12	35	2.7	346	6.1	339	28.5
30	12	80	4	20	47	2.8	337	4.0	334	27.2
30	12	80	4	28	58	3.8	332	4.5	341	26.5
30	12	80	4	37	10	5.6	345	5.2	337	26.2
30	12	80	4	45	21	2.8	344	5.0	340	25.2
30	12	80	4	53	33	2.7	338	7.6	334	24.5
3	1	81	9	50	25	27.0	420	58.1	439	5.5
5	1	81	1	3	9	10.3	471	53.8	462	11.8
5	1	81	1	11	21	3.6	452	64.3	465	10.5
5	1	81	1	19	32	19.1	498	38.3	486	10.6
5	1	81	1	27	44	7.5	528	85.6	482	9.3
5	1	81	1	35	55	6.4	482	39.7	476	9.9
5	1	81	1	44	7	13.0	486	68.9	502	9.3
5	1	81	1	52	18	43.3	508	110.3	510	9.1
5	1	81	2	0	30	9.6	545	69.9	536	8.9
5	1	81	2	8	41	9.3	513	.0	0	8.5
5	1	81	2	16	53	15.4	484	.0	0	8.2
5	1	81	2	25	4	22.9	555	.0	0	7.4
5	1	81	2	33	16	13.3	569	.0	0	7.5
5	1	81	2	41	27	15.9	526	.0	0	7.8
5	1	81	2	49	39	30.0	522	.0	0	7.6
5	1	81	2	57	50	21.6	527	.0	0	7.4
5	1	81	3	6	2	10.8	541	.0	0	6.7
5	1	81	3	14	13	10.9	522	.0	0	7.2
5	1	81	3	22	25	13.8	500	.0	0	7.0
5	1	81	3	30	36	23.0	484	.0	0	7.5
5	1	81	3	38	48	19.4	512	.0	0	7.0
5	1	81	3	46	59	9.5	532	.0	0	6.2
5	1	81	3	55	11	7.3	498	.0	0	7.3
5	1	81	4	3	23	11.2	480	.0	0	8.3
5	1	81	4	11	34	31.6	526	.0	0	7.5
5	1	81	4	19	46	7.9	535	.0	0	7.6
5	1	81	4	27	57	9.6	513	19.1	575	7.4
5	1	81	4	36	9	15.1	481	.0	0	7.7
5	1	81	4	44	20	61.8	522	.0	0	7.5
5	1	81	4	52	32	8.3	526	.0	0	7.5
5	1	81	5	0	43	7.9	514	.0	0	7.6
5	1	81	5	8	55	11.9	489	.0	0	7.3
5	1	81	5	17	6	27.0	507	.0	0	6.9
5	1	81	5	25	18	10.7	537	.0	0	6.7
7	1	81	3	34	13	8.7	439	41.8	454	5.2
8	1	81	12	45	58	5.7	415	21.8	392	8.5
8	1	81	12	54	10	3.7	383	23.7	391	4.8
8	1	81	13	2	21	4.3	360	22.9	388	8.1
8	1	81	13	10	33	6.5	421	29.2	383	7.0
8	1	81	13	18	44	10.2	364	14.9	365	6.6
8	1	81	13	26	56	4.2	359	13.0	358	7.3
8	1	81	13	35	7	3.9	355	47.5	379	4.6
8	1	81	13	43	19	4.0	354	43.6	376	8.3
8	1	81	13	51	31	17.8	377	36.6	380	8.0
8	1	81	13	59	42	8.5	391	35.9	375	8.4
8	1	81	14	7	54	5.1	386	35.6	383	8.2
8	1	81	14	16	5	4.1	393	33.3	389	8.6
8	1	81	14	24	17	5.1	410	36.6	388	9.1

4	3	81	4	7	39	2.8	449	6.7	390	4.4
4	3	81	4	15	51	1.8	440	24.5	401	4.9
4	3	81	4	24	2	1.3	430	11.1	402	4.9
4	3	81	4	32	14	1.1	416	9.4	393	5.3
4	3	81	4	40	25	1.3	403	17.3	391	4.9
4	3	81	4	48	37	1.7	396	.0	0	4.4
4	3	81	4	56	48	1.4	384	11.2	388	4.4
4	3	81	5	5	0	1.7	360	13.4	387	4.6
4	3	81	5	13	11	3.7	472	14.6	396	3.5
4	3	81	5	21	23	3.1	453	8.9	383	3.7
4	3	81	5	29	34	2.5	432	10.3	388	3.7
4	3	81	5	37	46	1.8	437	5.7	390	5.2
4	3	81	5	45	57	1.3	418	4.0	394	6.1
4	3	81	5	54	9	1.2	409	.0	0	5.5
4	3	81	6	2	20	1.8	400	.0	0	5.4
4	3	81	6	10	32	1.7	394	.0	0	5.6
4	3	81	6	18	43	2.2	371	.0	0	6.0
4	3	81	6	26	55	2.9	490	80.4	412	5.7
4	3	81	6	35	6	3.4	474	28.5	391	5.6
4	3	81	6	43	18	3.1	447	29.6	400	5.8
4	3	81	6	51	30	1.6	434	18.5	393	5.6
4	3	81	6	59	41	1.4	411	12.7	382	5.9
4	3	81	7	7	53	2.2	388	91.1	398	5.1
4	3	81	7	16	4	2.0	383	8.6	374	6.1
4	3	81	7	24	16	1.9	378	.0	0	6.6
0	0	5	0	0	0	.0	0	.0	0	.0

Day Month YR

STOP TIME