

GEOMAGNETIC DATA

Hourly mean values of H, D, Z and F

Hourly means are derived from minute means corrected using absolute observations. The units of the elements are 0.1 nT, Declination is also scaled to 0.1 nT. Minute means of F are calculated from H and Z. F values are checked by comparing them with proton magnetometer readings taken at every 10 minutes.

Daily mean values of H, D, Z and F

Daily mean values are calculated from hourly mean values.

Geomagnetic activity indices: K-index

The K-index is determined from the amplitude ranges of H and D components for each three-hour Universal Time interval. Limit for K=9 is 350 nT in Nagycenk.

Special phenomena

List of special events is based on both magnetic and earth current records. Tables are given for SSC-s and sfe.

Annual mean values of geomagnetic elements

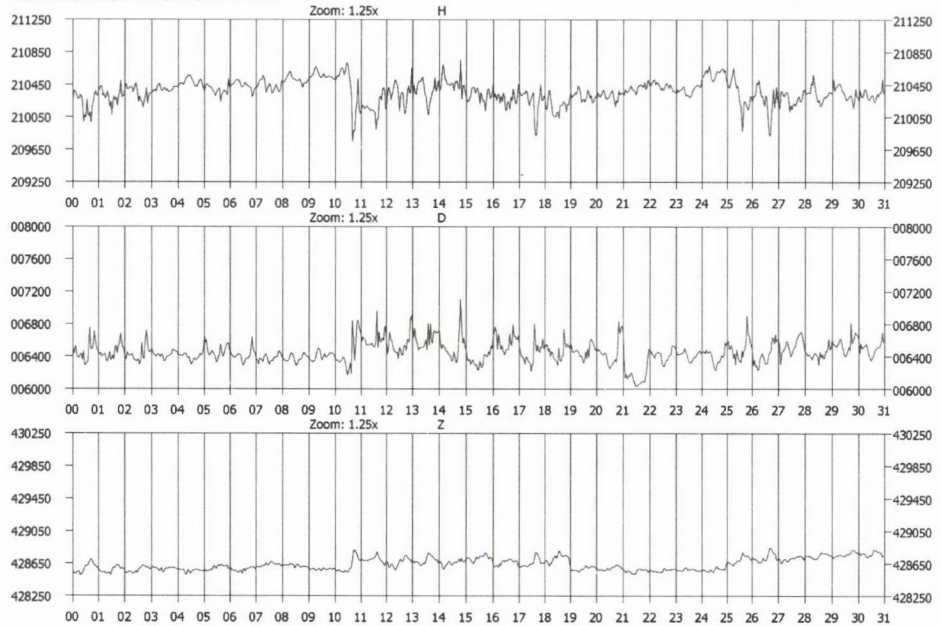
Table contains yearly means of the geomagnetic elements 1961 to 1993 in nT. These values are the results of a reevaluation of previously published data, including corrections eliminating disturbances caused by construction works in the observatory. Corrected values are noted by asterisk.

Times in this section are given in UT!

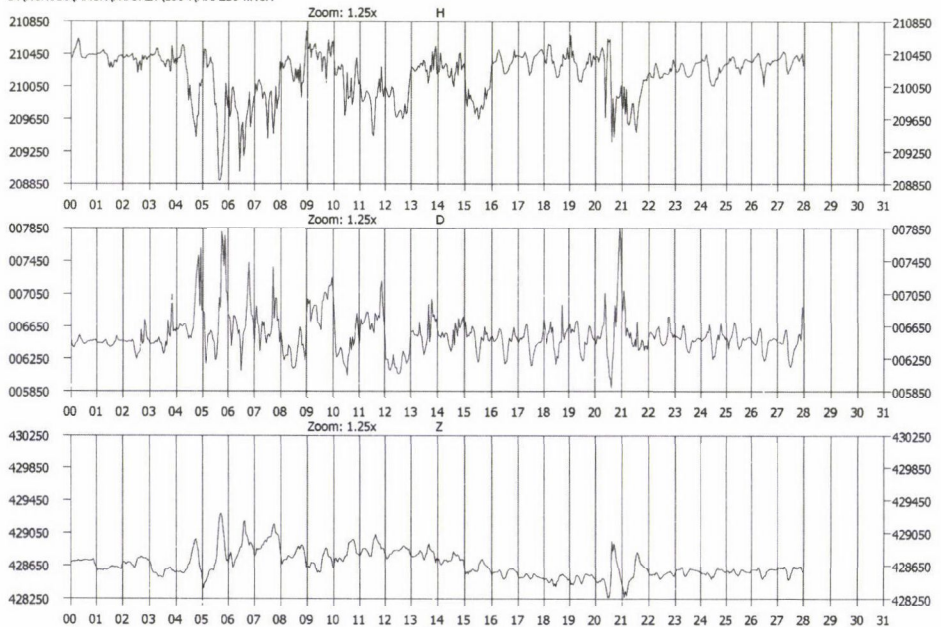
See CD (program Seenck.exe, menu item Magnetics).

Hourly mean values of H , D , Z
1994–1998

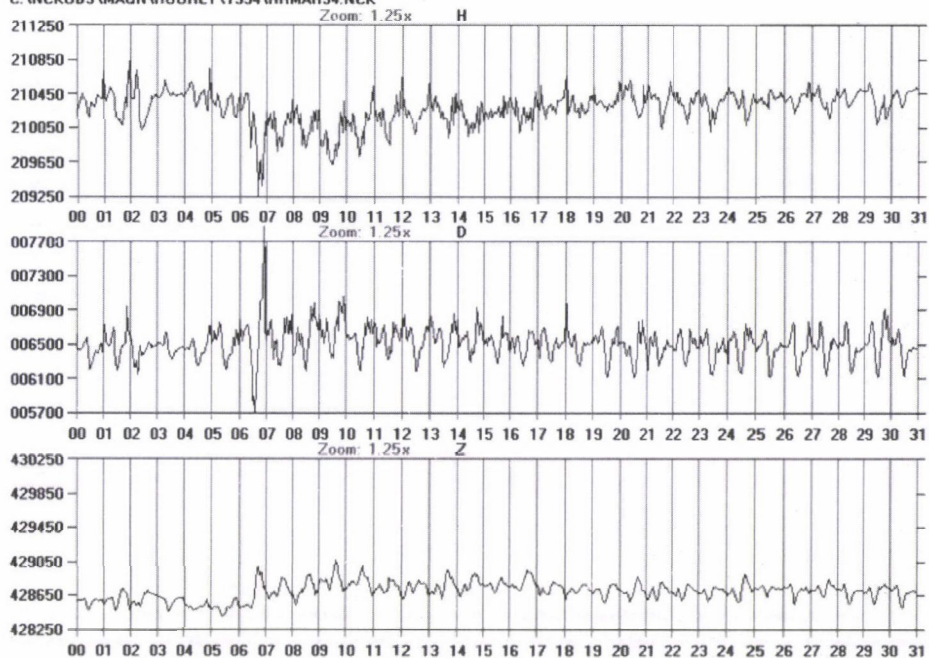
D:\NCKOBS\MAGN\HOURLY\1994\HRJAN94.NCK



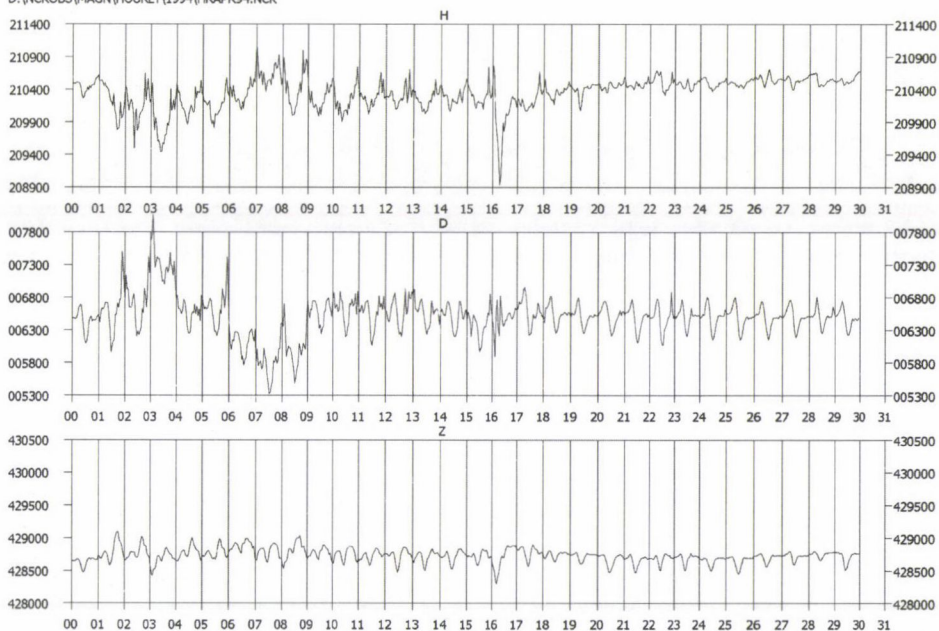
D:\NCKOBS\MAGN\HOURLY\1994\HRFEB94.NCK



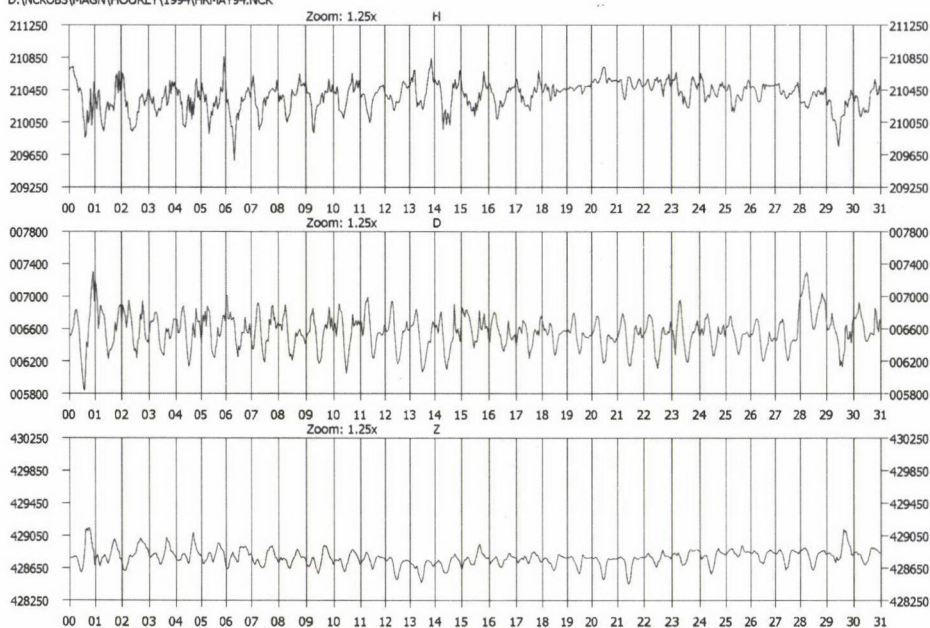
C:\NCKOBS\MAGN\HOURLY\1994\HRMAR94.NCK



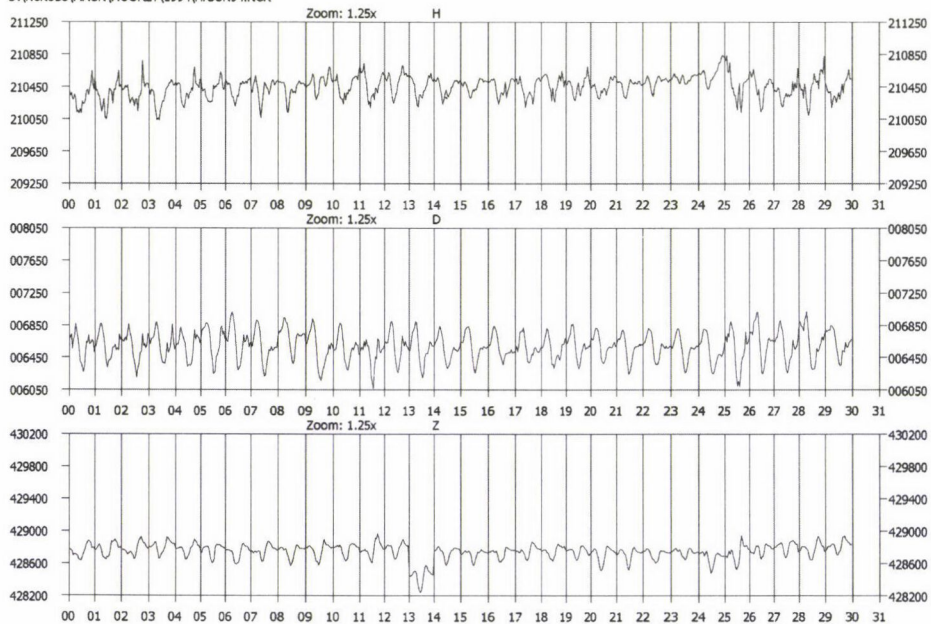
D:\NCKOBS\MAGN\HOURLY\1994\HRAPR94.NCK



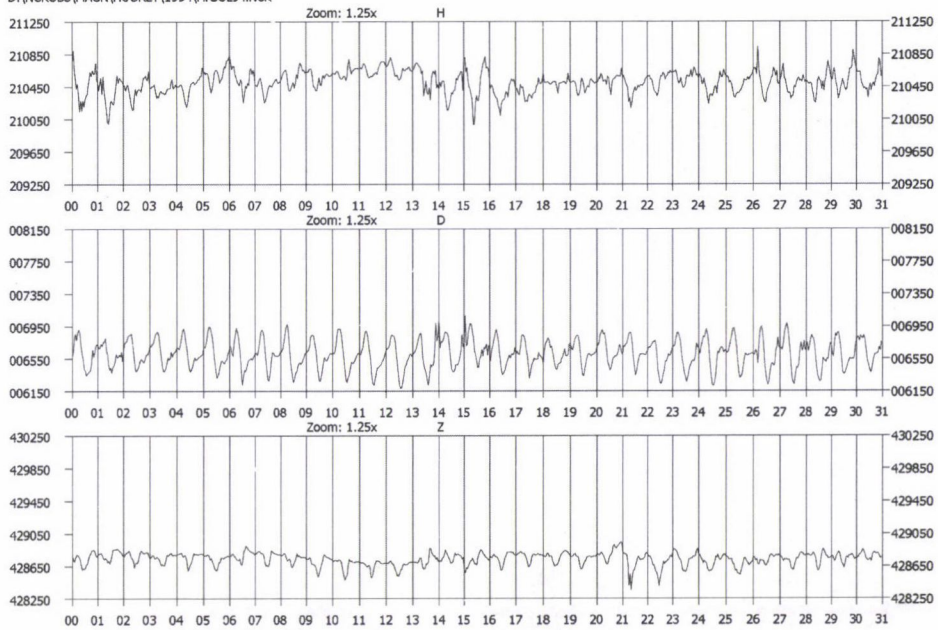
D:\NCKOBS\MAGN\HOURLY\1994\HRMAY94.NCK



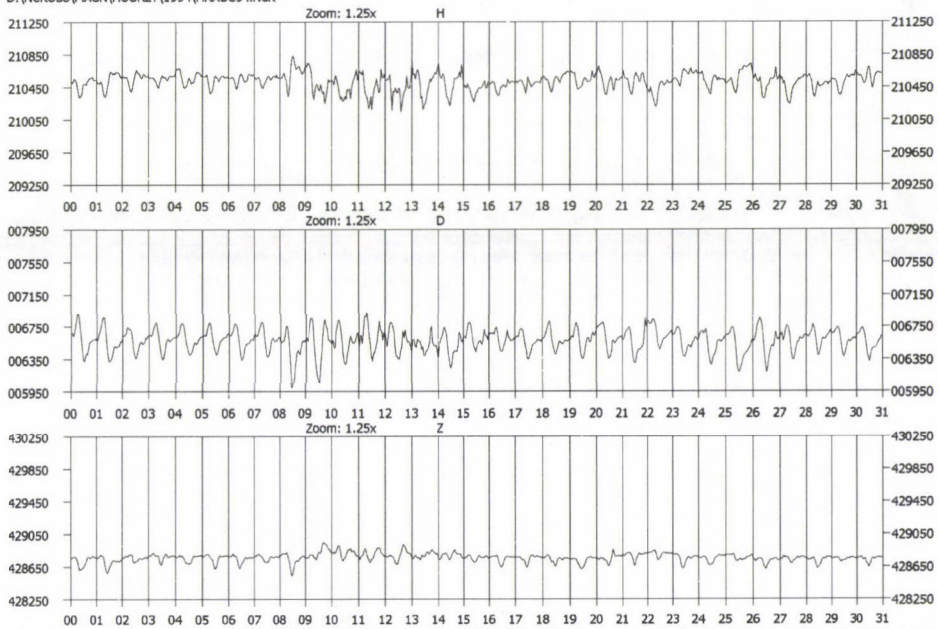
D:\NCKOBS\MAGN\HOURLY\1994\HRJUN94.NCK



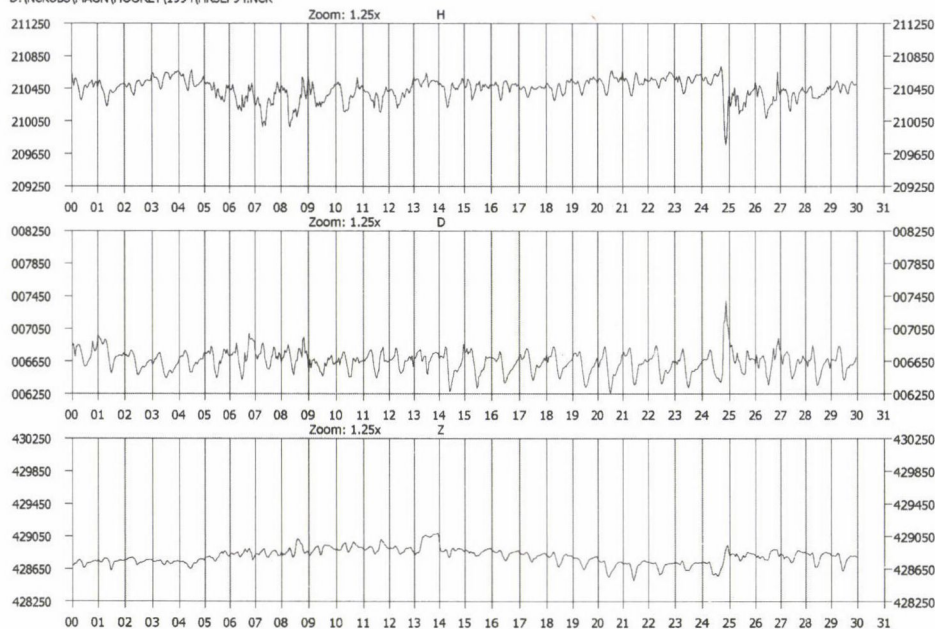
D:\WCKOBS\MAGN\HOURLY\1994\HRJUL94.NCK



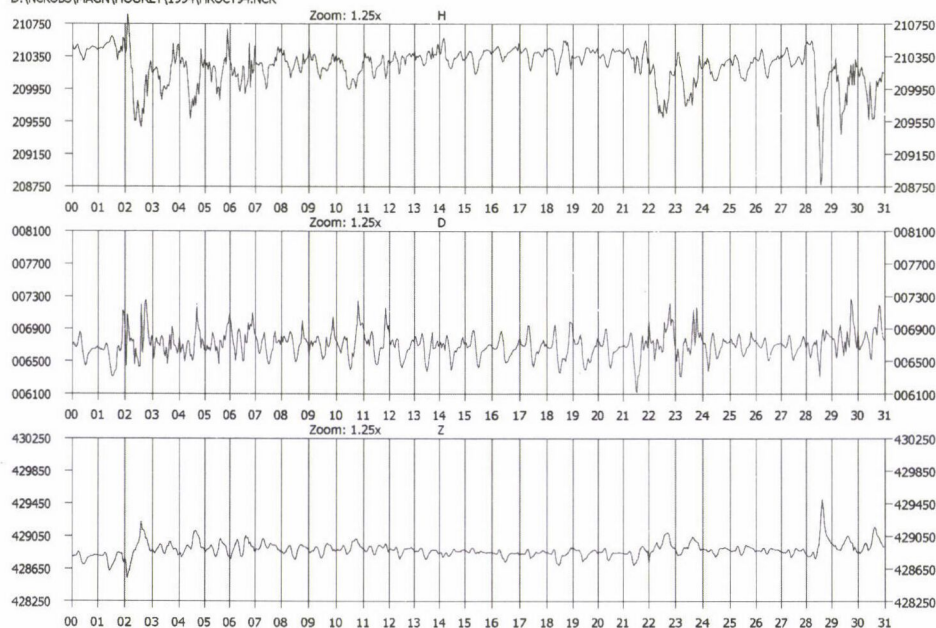
D:\WCKOBS\MAGN\HOURLY\1994\HRAUG94.NCK



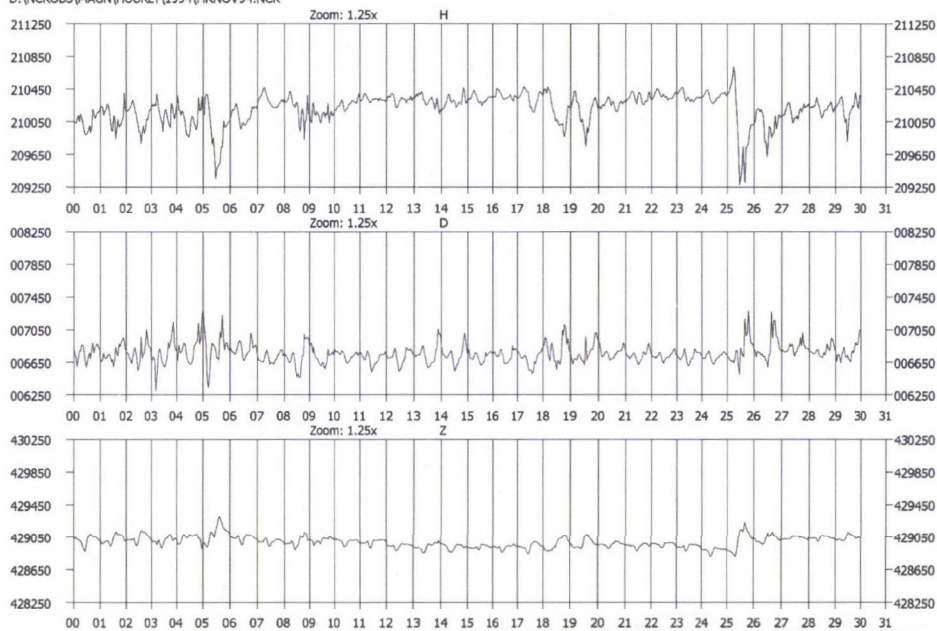
D:\NCKOBS\MAGN\HOURLY\1994\HRSEP94.NCK



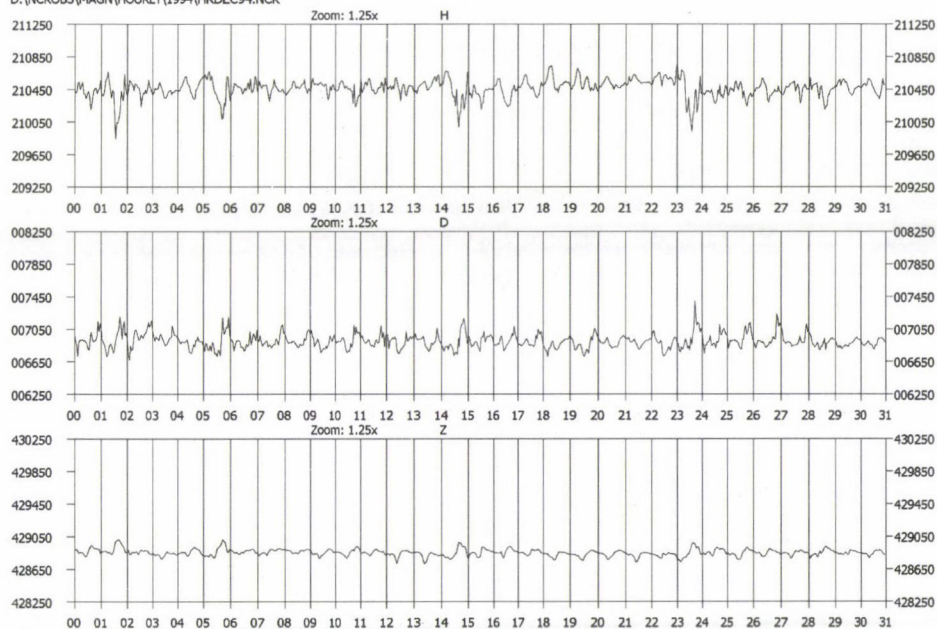
D:\NCKOBS\MAGN\HOURLY\1994\HROCT94.NCK



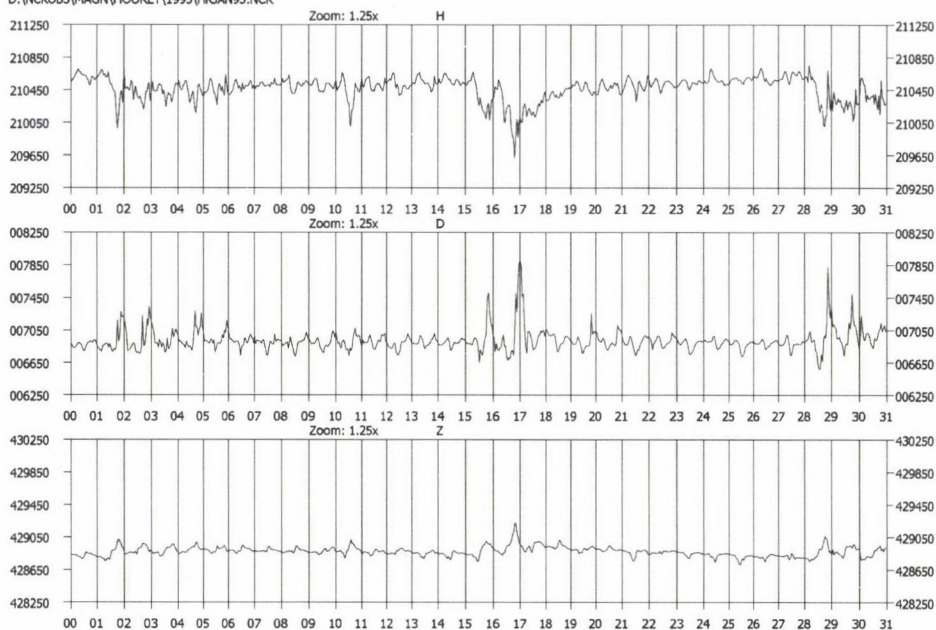
D:\NCKOBS\MAGN\HOURLY\1994\HRNOV94.NCK



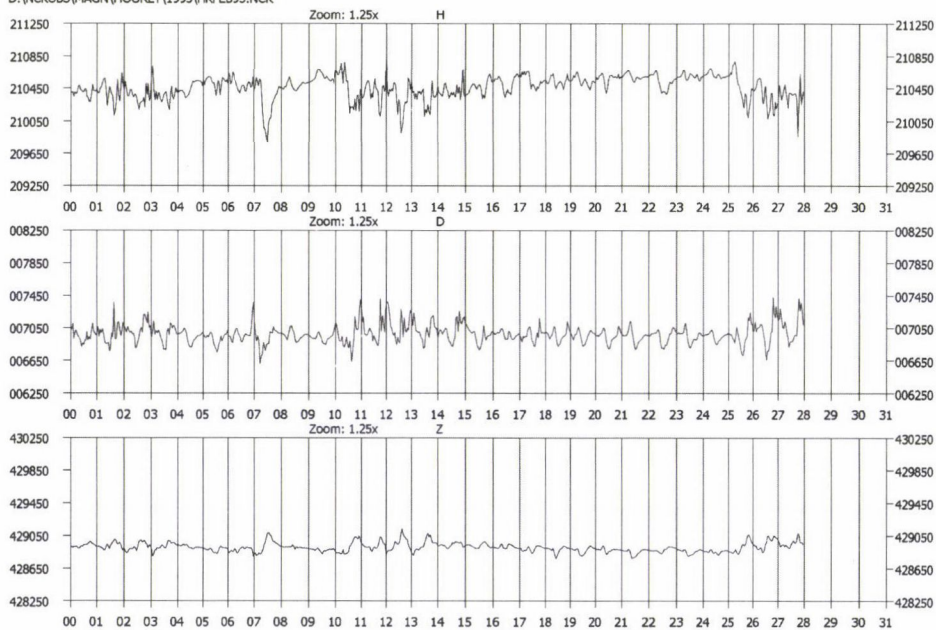
D:\NCKOBS\MAGN\HOURLY\1994\HRDEC94.NCK



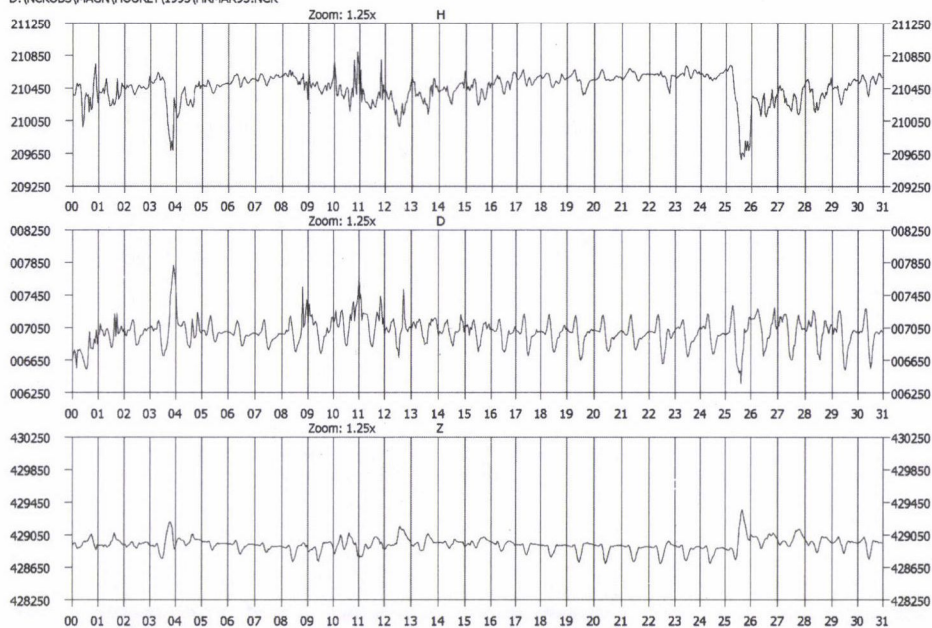
D:\NCKOBS\MAGN\HOURLY\1995\HRJAN95.NCK



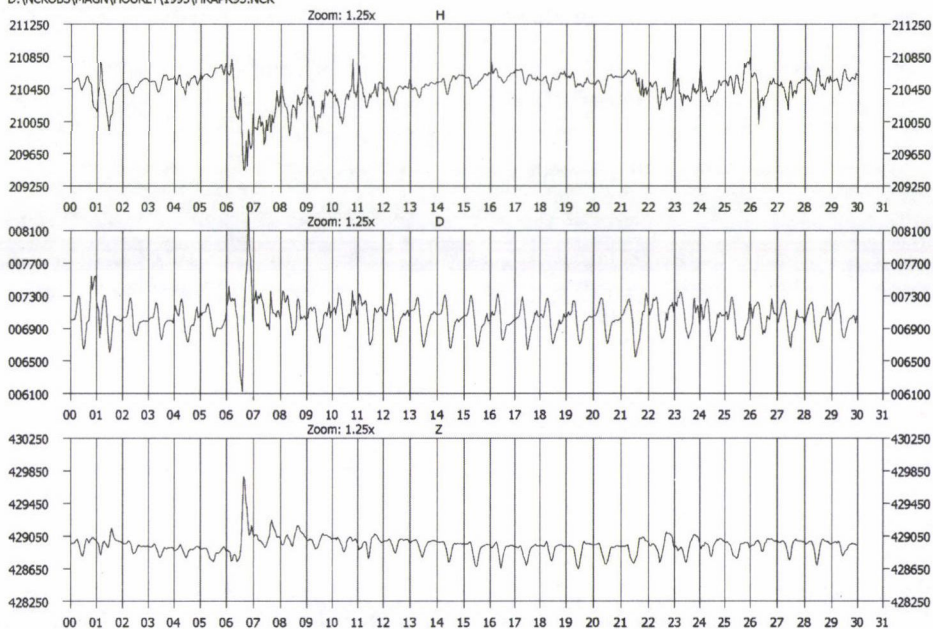
D:\NCKOBS\MAGN\HOURLY\1995\HRFEB95.NCK



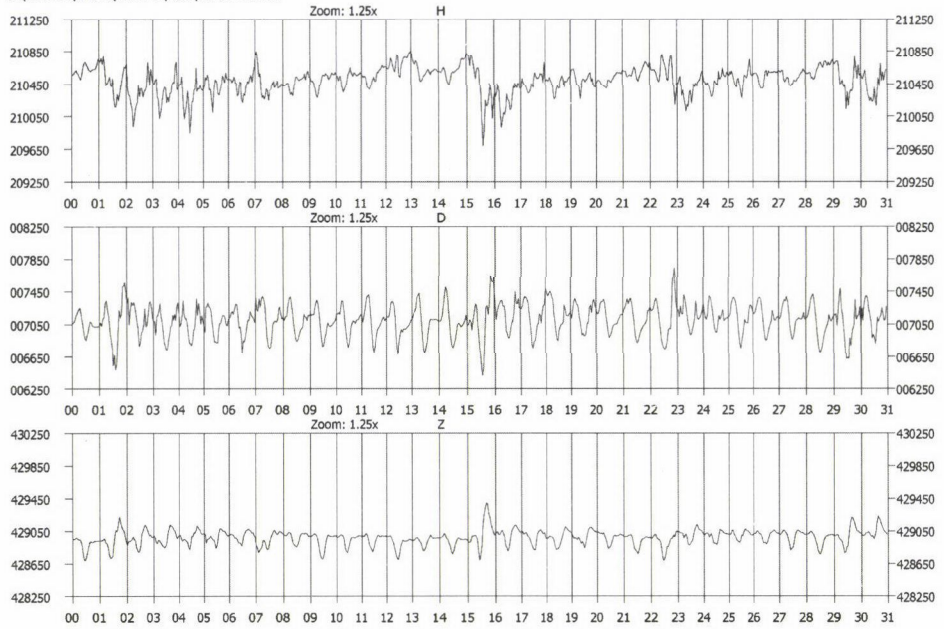
D:\NCKOBS\MAGN\HOURLY\1995\HRMAR95.NCK



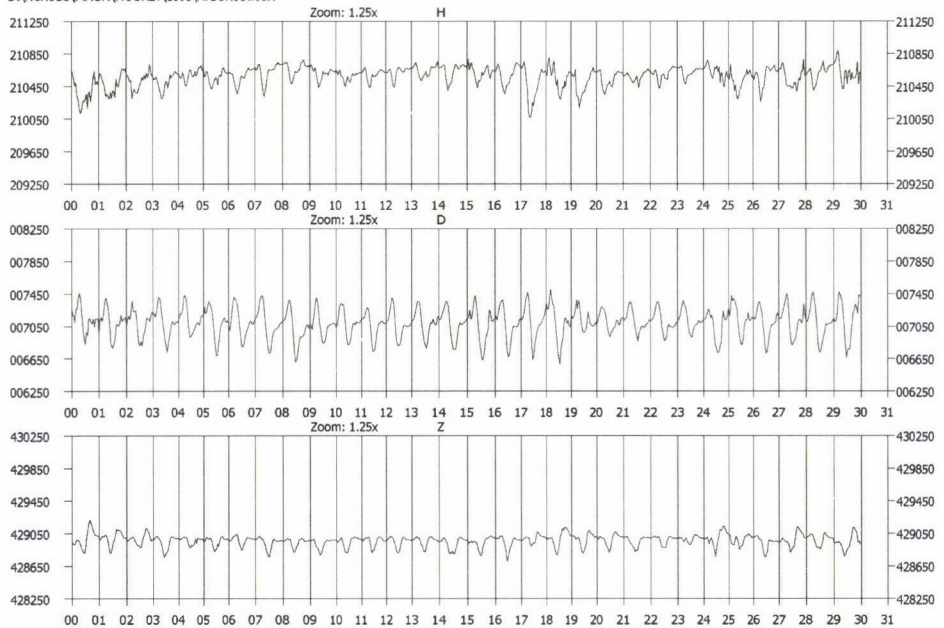
D:\NCKOBS\MAGN\HOURLY\1995\HRAPR95.NCK



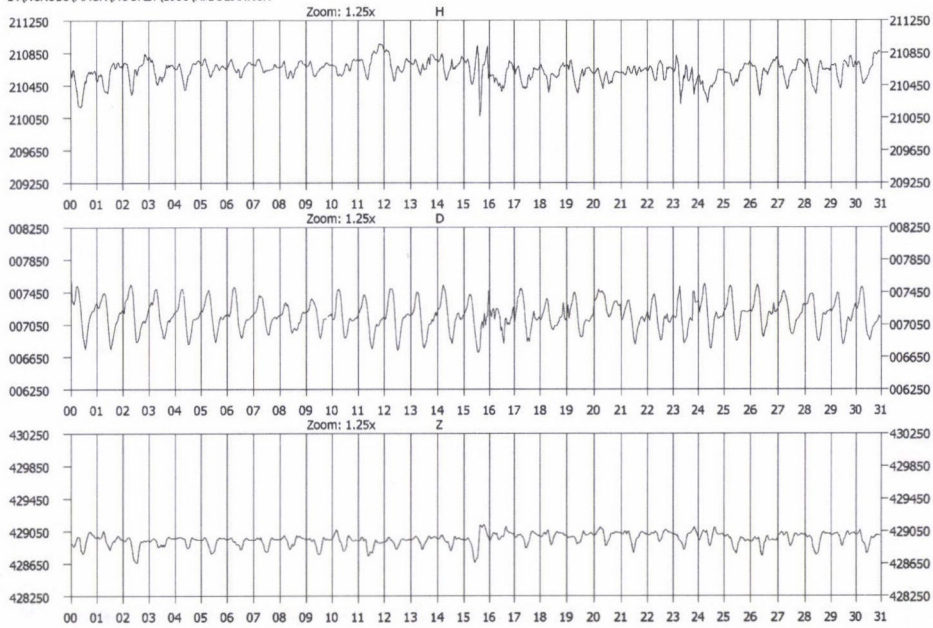
D:\WCKOBS\MAGN\HOURLY\1995\HRMAY95.NCK



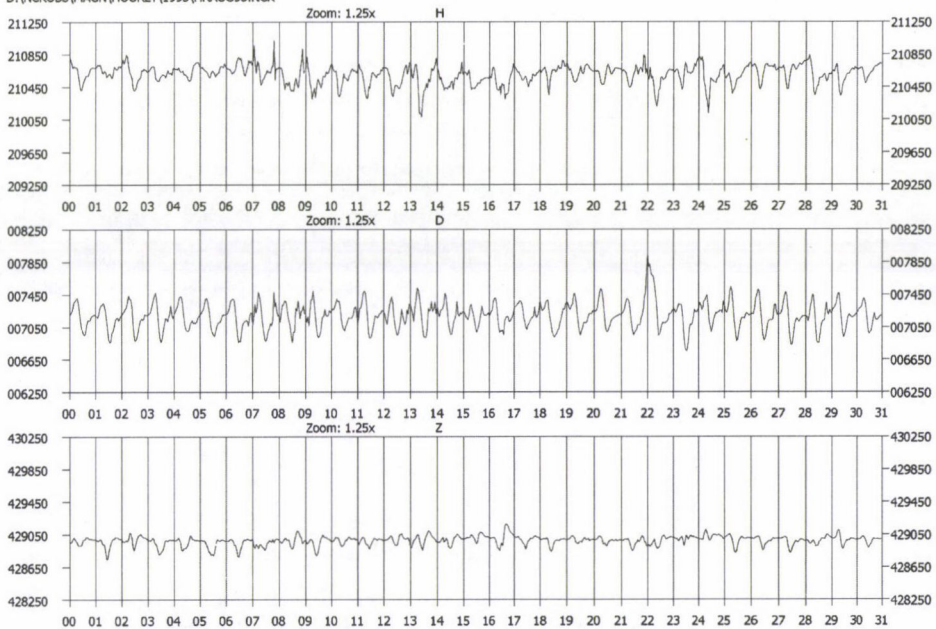
D:\WCKOBS\MAGN\HOURLY\1995\HRJUN95.NCK



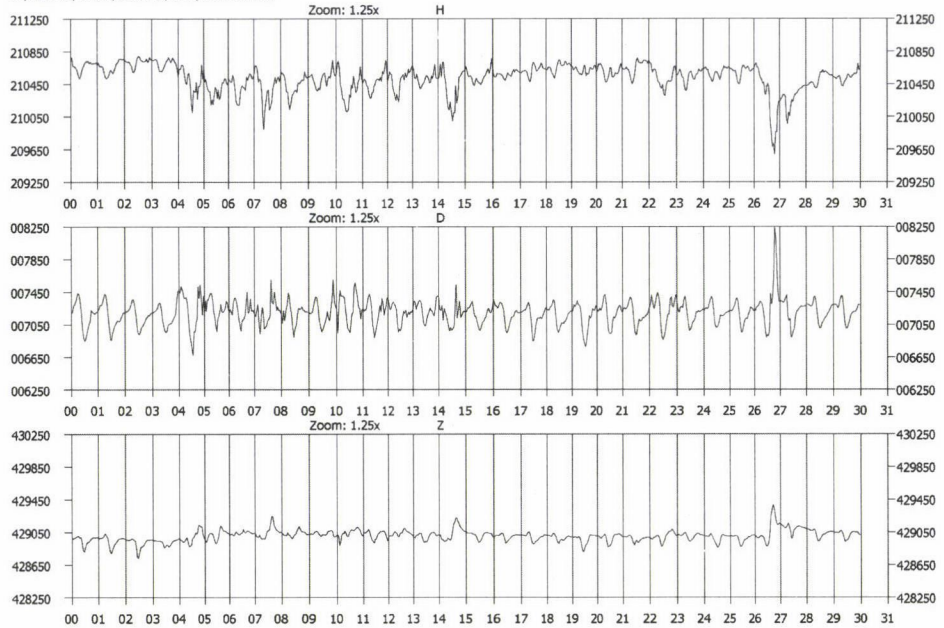
D:\NCKOBS\MAGN\HOURLY\1995\HRJUL95.NCK



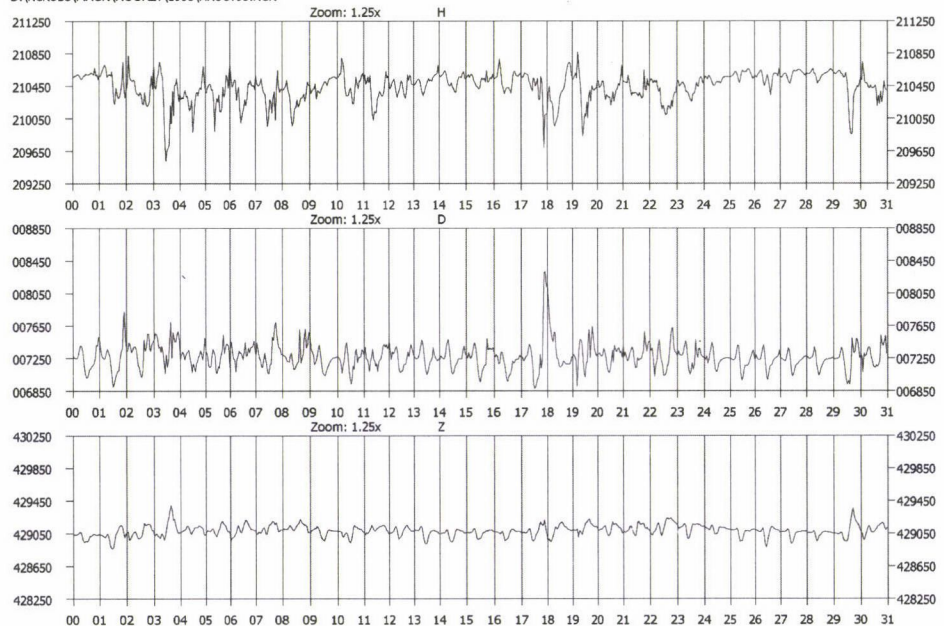
D:\NCKOBS\MAGN\HOURLY\1995\HRAUG95.NCK



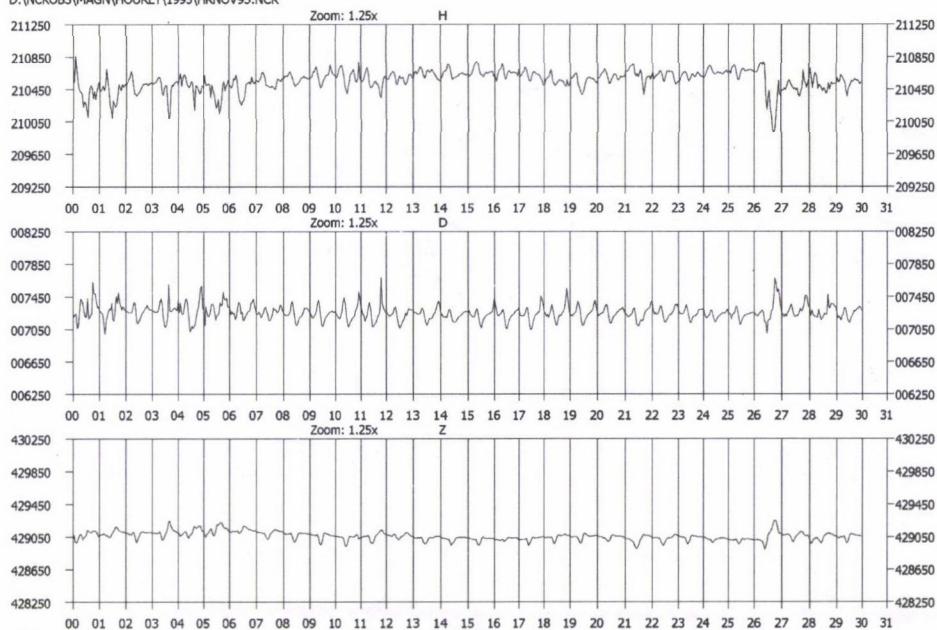
D:\NCKOBS\MAGN\HOURLY\1995\HRSEP95.NCK



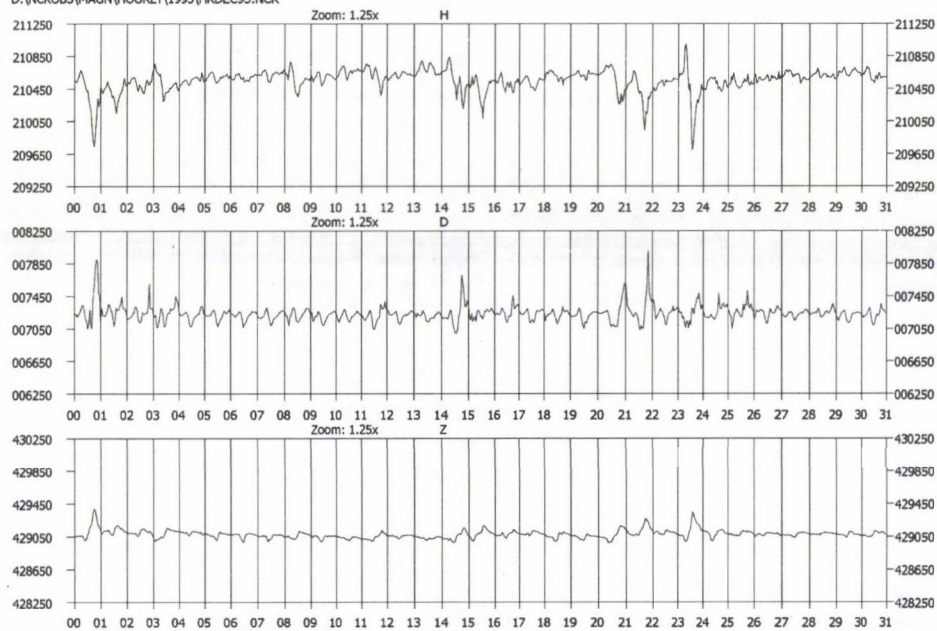
D:\NCKOBS\MAGN\HOURLY\1995\HROCT95.NCK



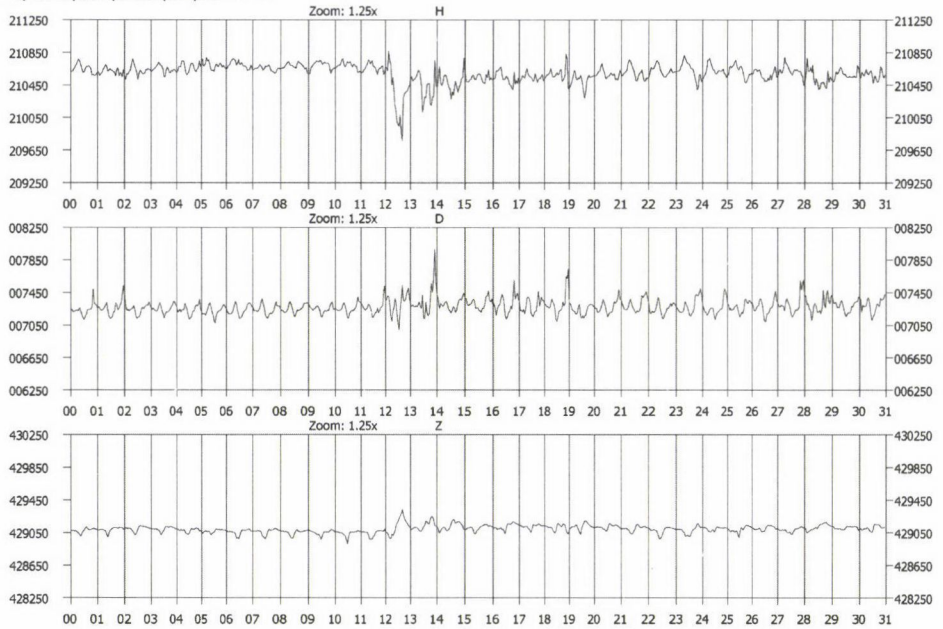
D:\NCKOBS\MAGN\HOURLY\1995\HRNOV95.NCK



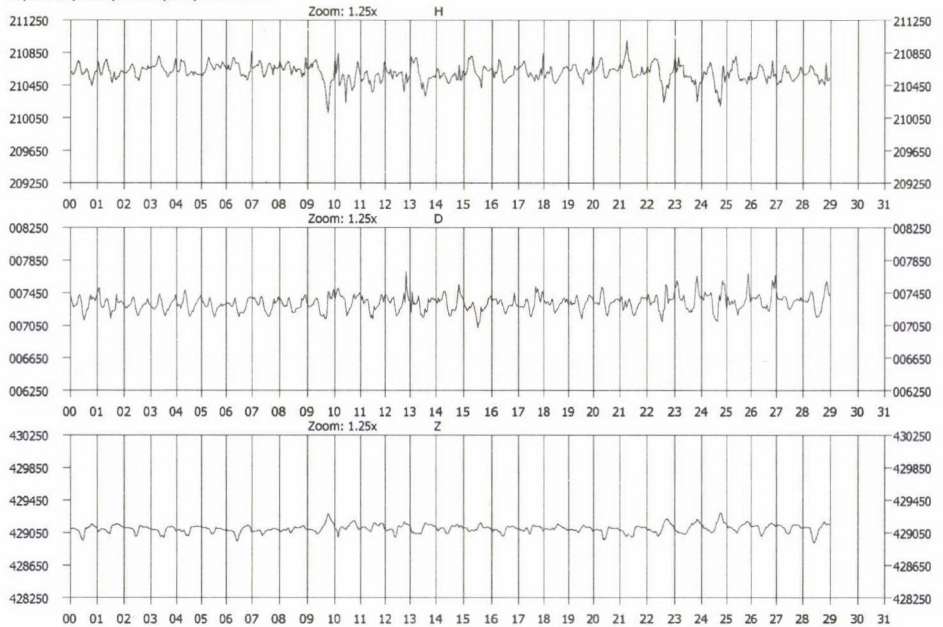
D:\NCKOBS\MAGN\HOURLY\1995\HRDEC95.NCK



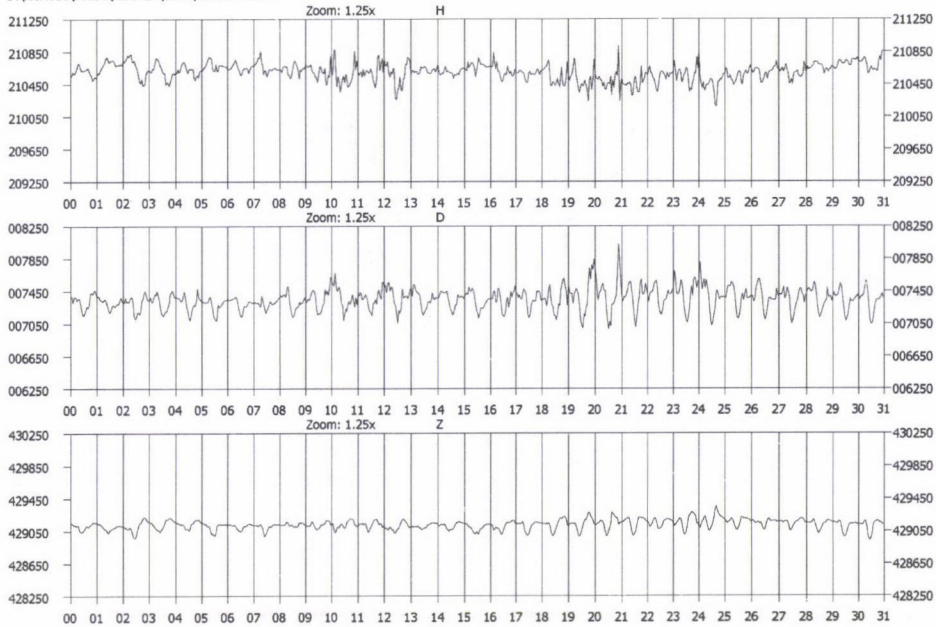
D:\NCKOBS\MAGN\HOURLY\1996\HJAN96.NCK



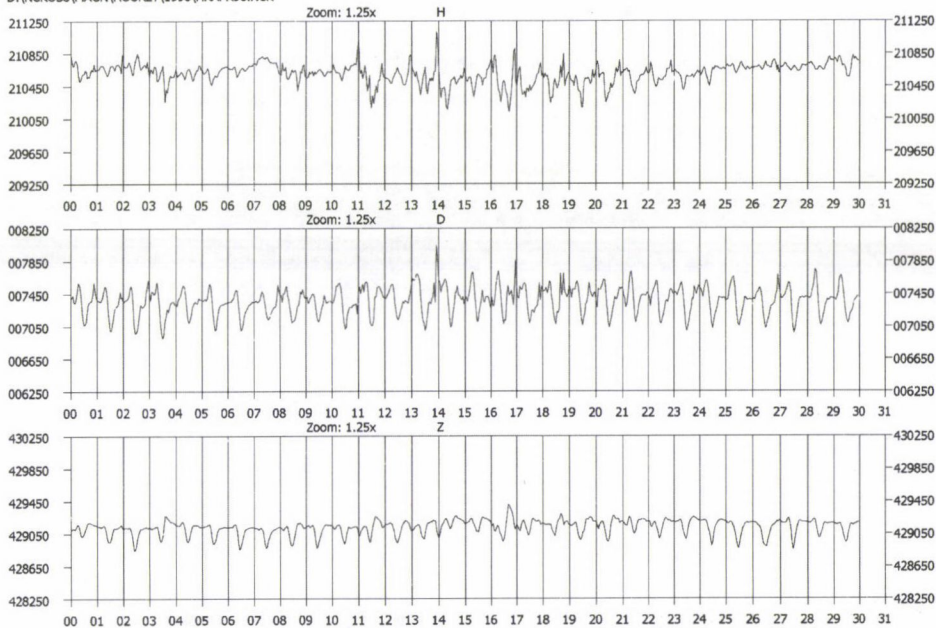
D:\NCKOBS\MAGN\HOURLY\1996\HFEB96.NCK



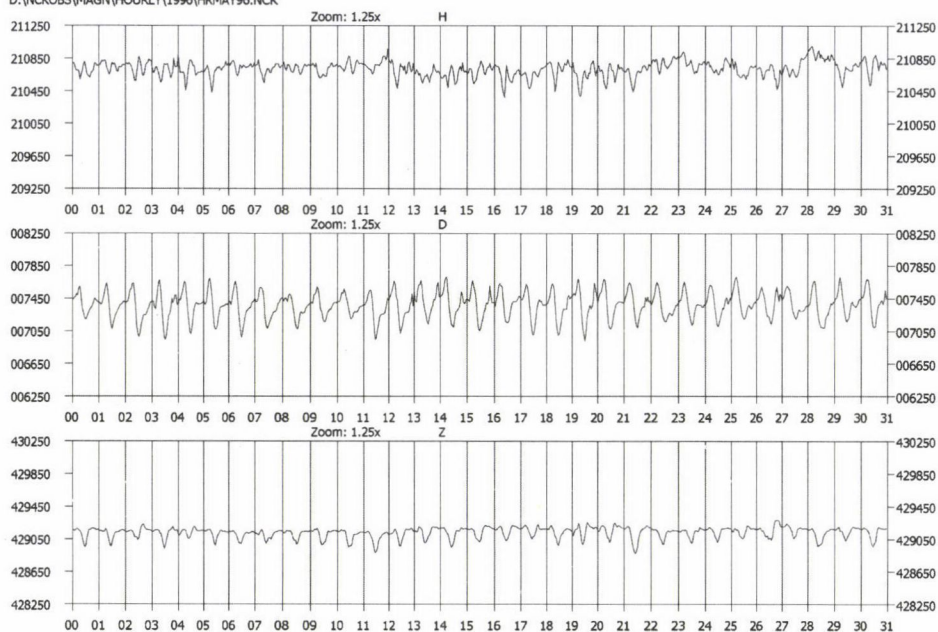
D:\NCKOBS\MAGN\HOURLY\1996\HRMAR96.NCK



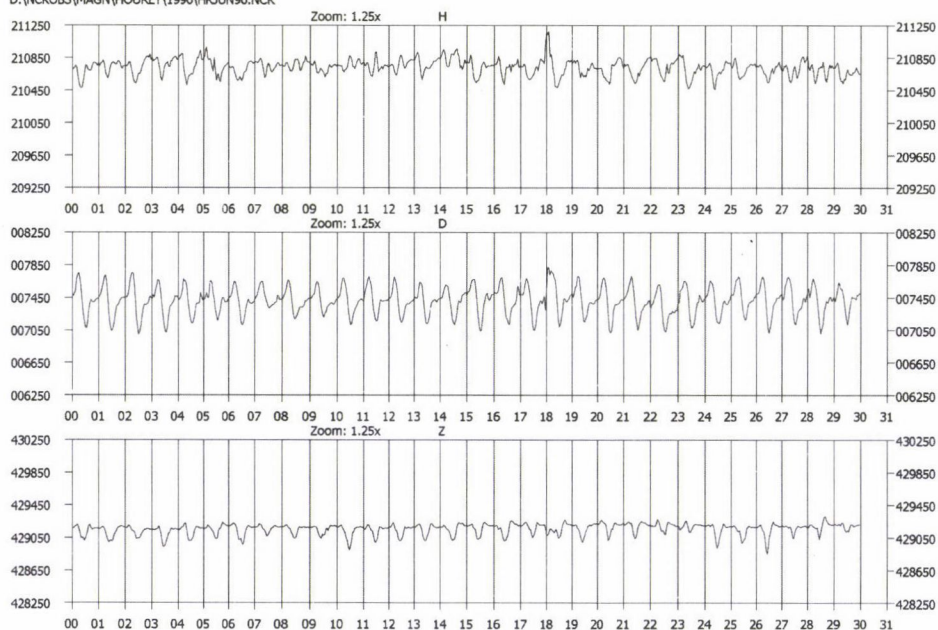
D:\NCKOBS\MAGN\HOURLY\1996\HRAPR96.NCK



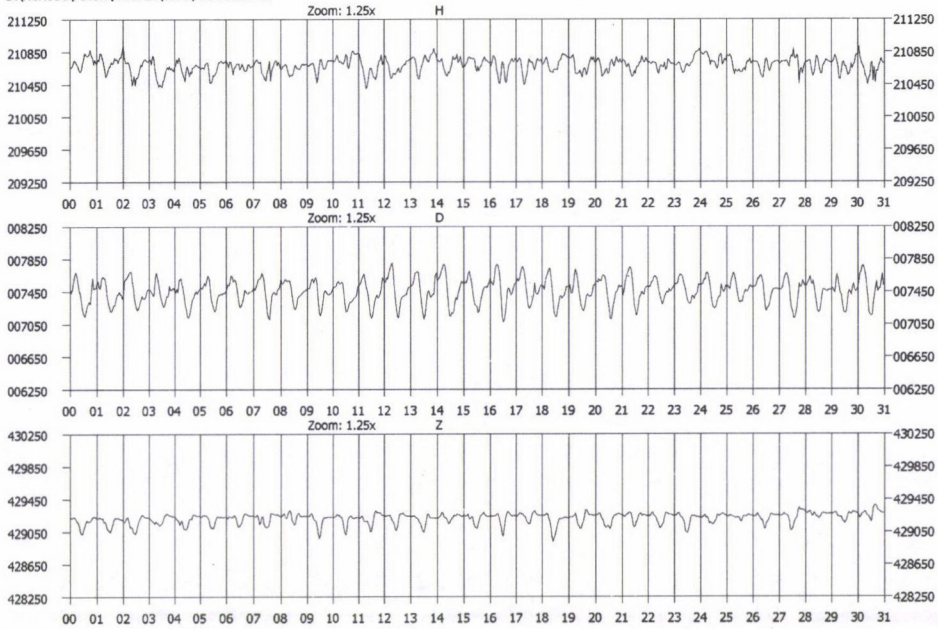
D:\NCKOBS\MAGN\HOURLY\1996\HRMAY96.NCK



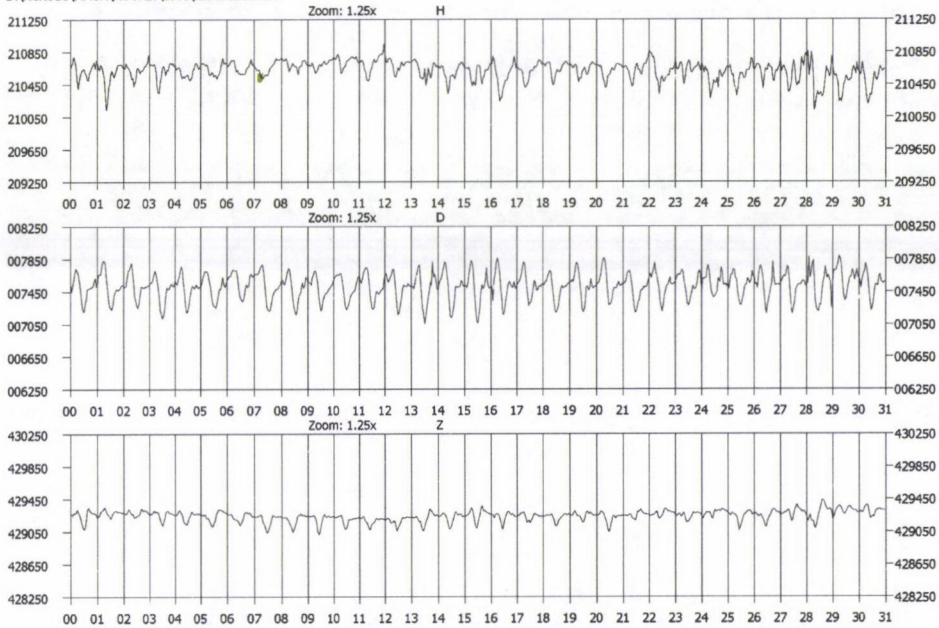
D:\NCKOBS\MAGN\HOURLY\1996\HRJUN96.NCK



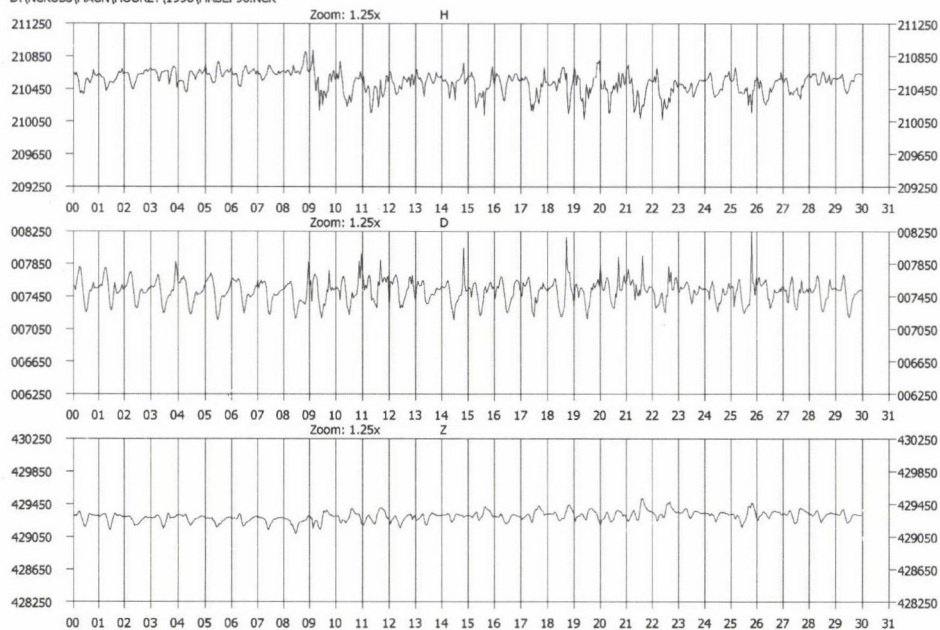
D:\WCKOBS\MAGN\HOURLY\1996\HRJUL96.NCK



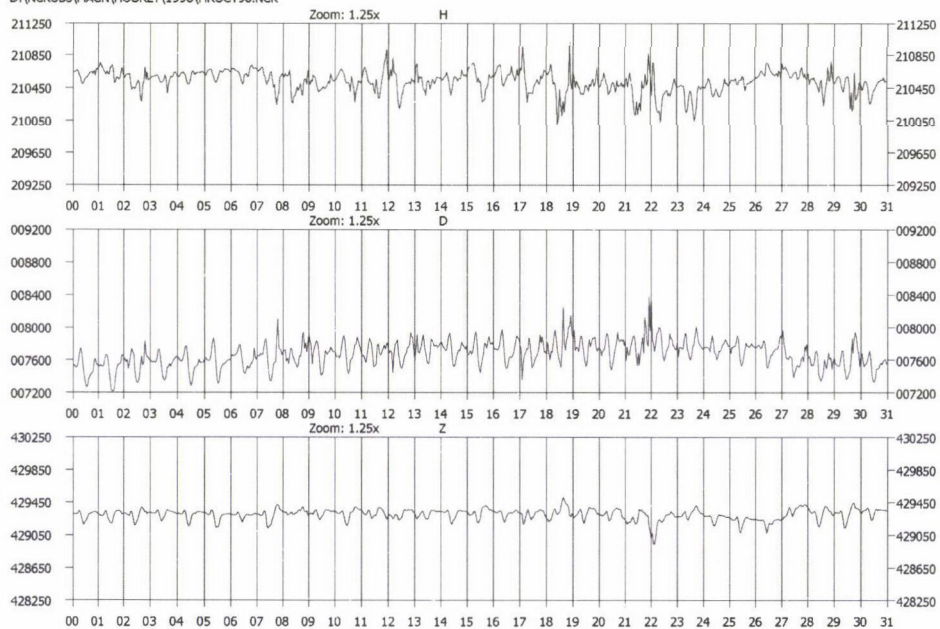
D:\WCKOBS\MAGN\HOURLY\1996\HRAUG96.NCK



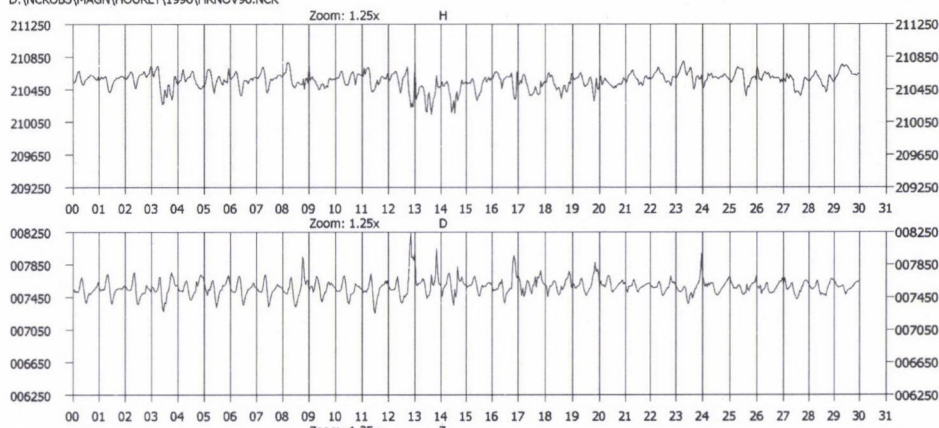
D:\NCKOBS\MAGN\HOURLY\1996\HRSEP96.NCK



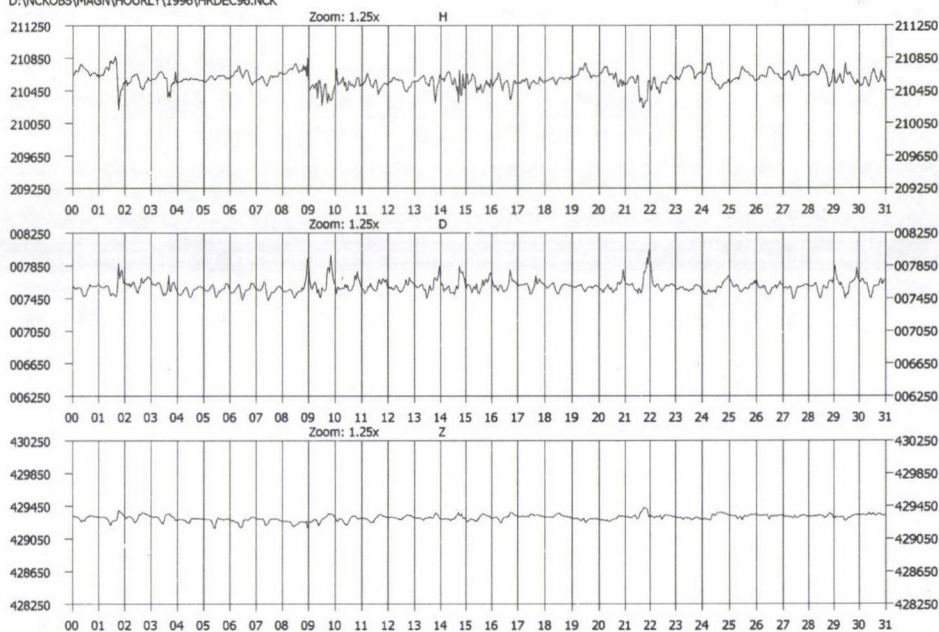
D:\NCKOBS\MAGN\HOURLY\1996\HROCT96.NCK



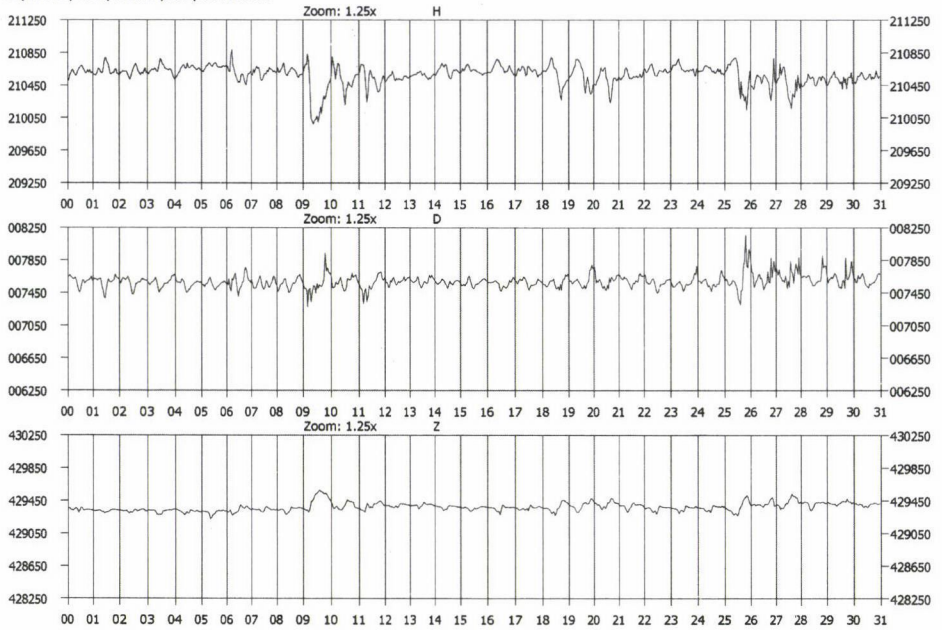
D:\NCKOBS\MAGN\HOURLY\1996\HRNOV96.NCK



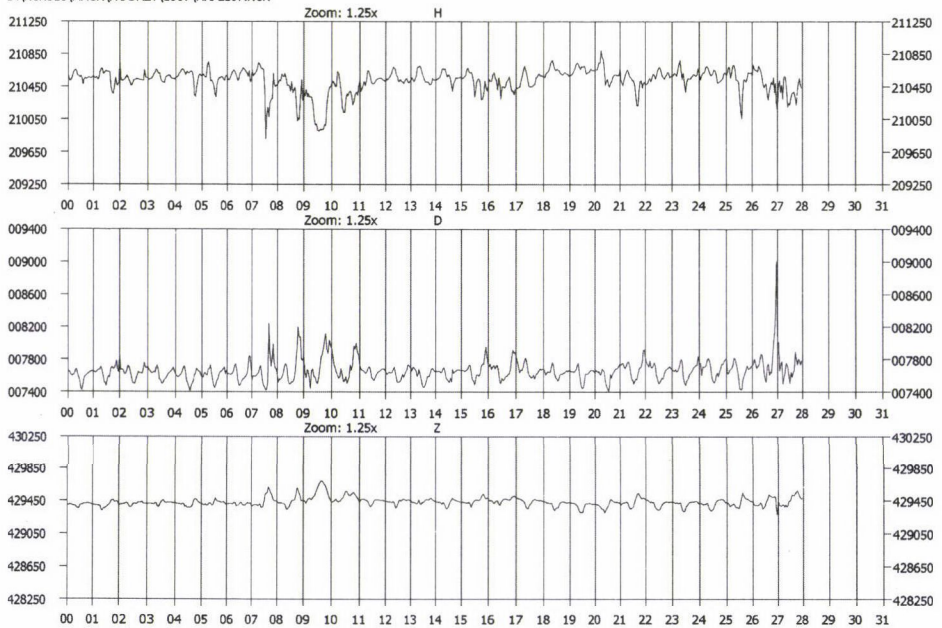
D:\NCKOBS\MAGN\HOURLY\1996\HRDEC96.NCK



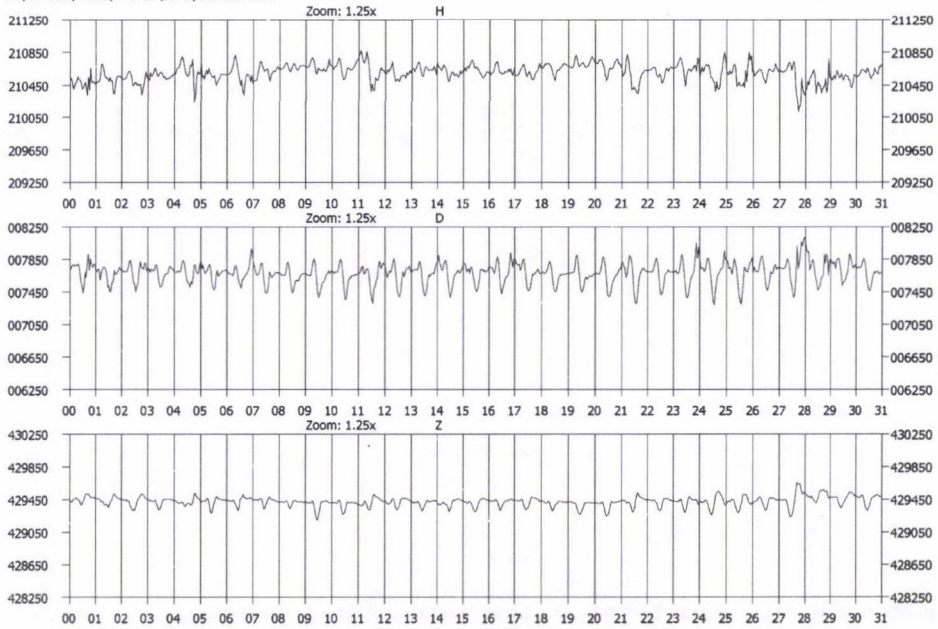
D:\WCKOBS\MAGN\HOURLY\1997\HRJAN97.NCK



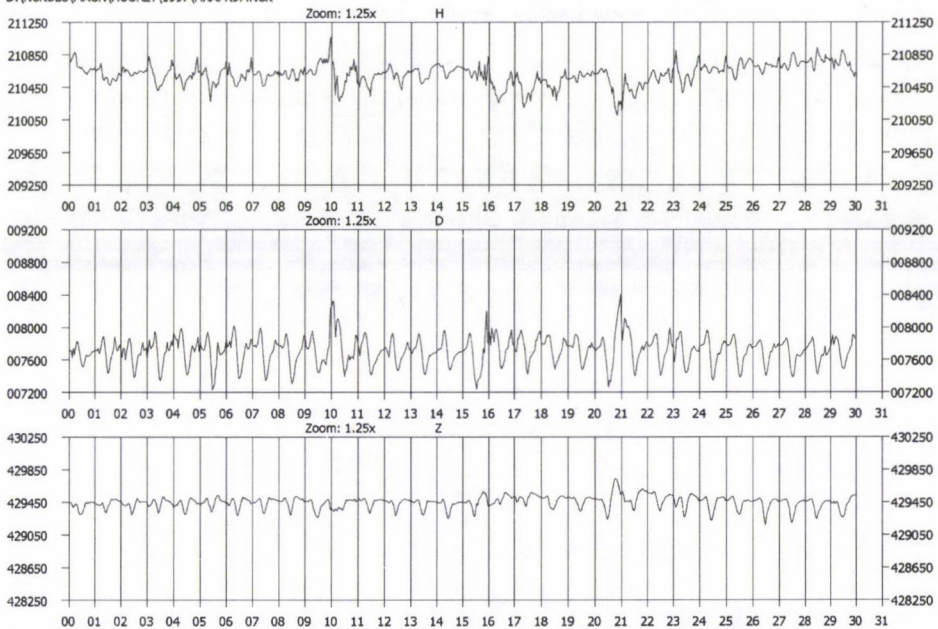
D:\WCKOBS\MAGN\HOURLY\1997\HRFEB97.NCK



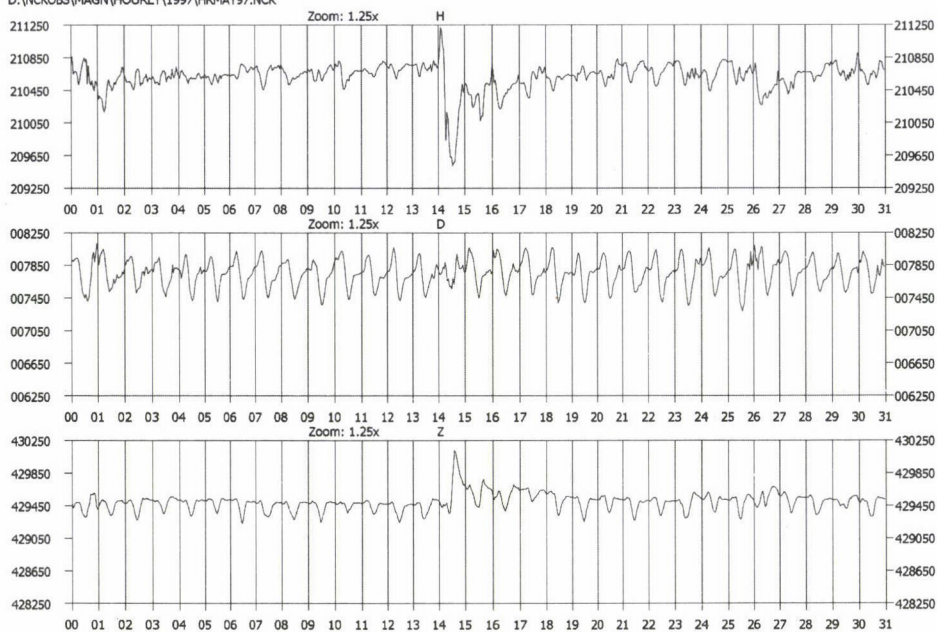
D:\NCKOBS\MAGN\HOURLY\1997\HRMAR97.NCK



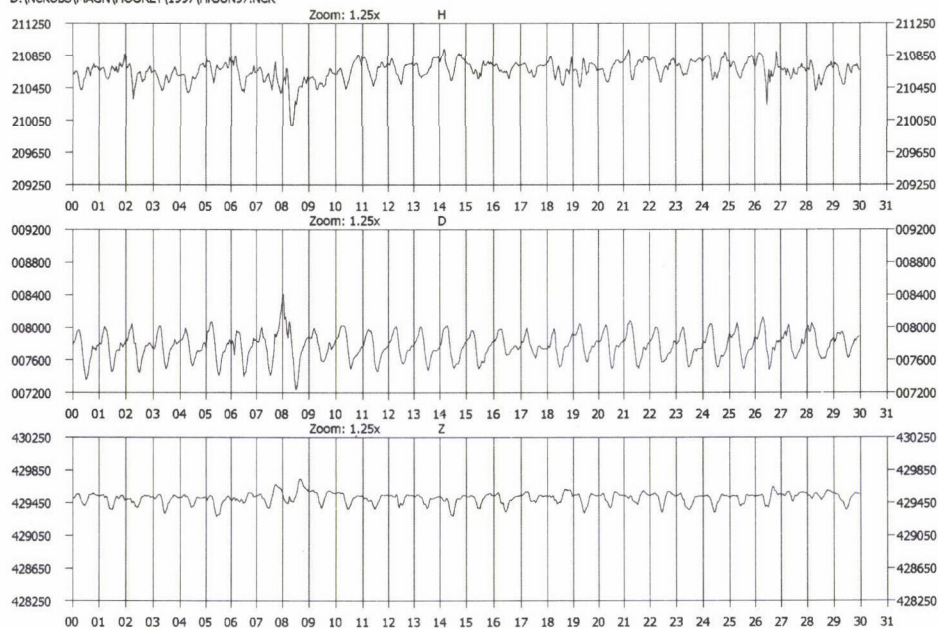
D:\NCKOBS\MAGN\HOURLY\1997\HRAPR97.NCK



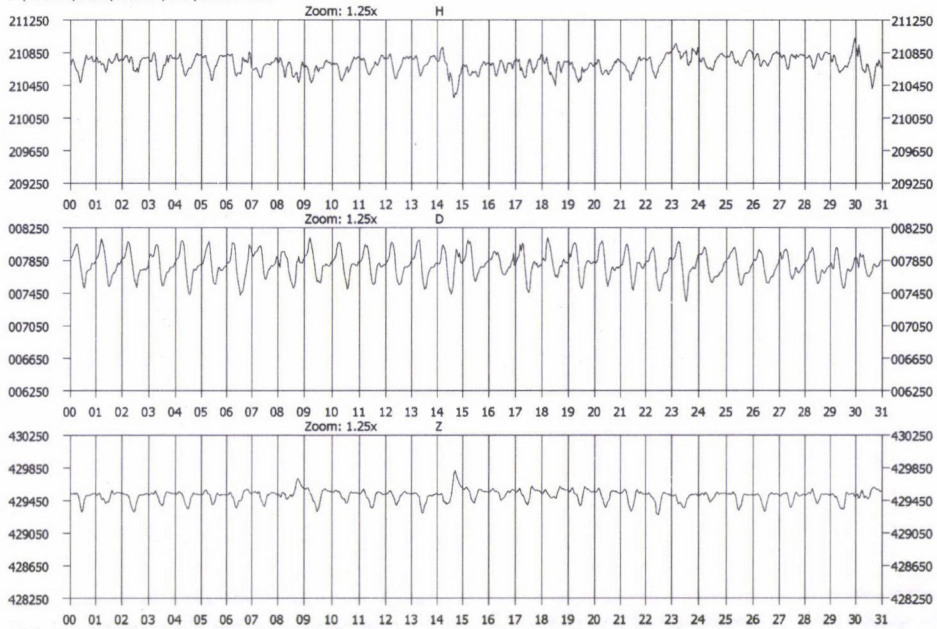
D:\WCKOBS\MAGN\HOURLY\1997\HRMAY97.NCK



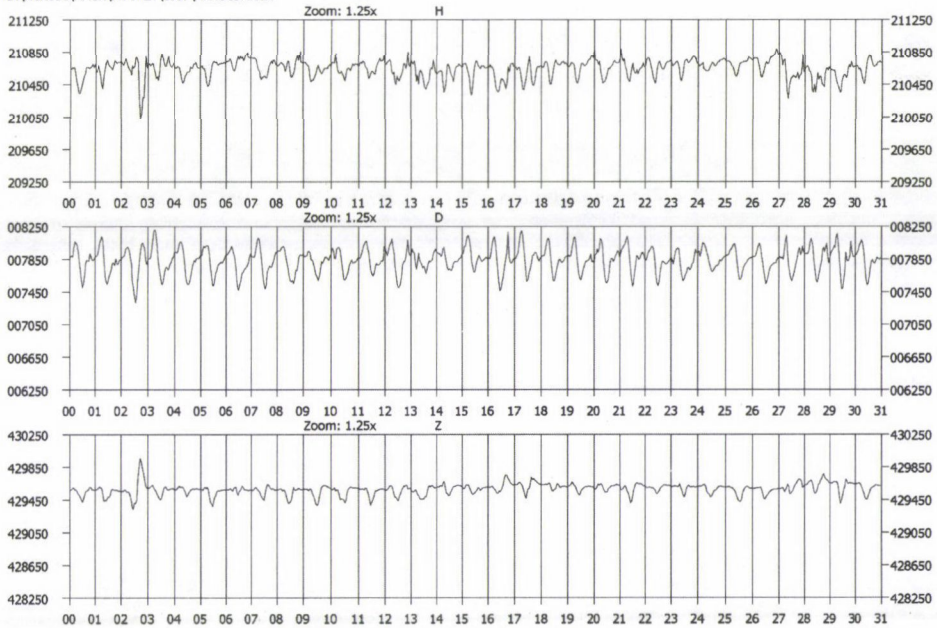
D:\WCKOBS\MAGN\HOURLY\1997\HRJUN97.NCK



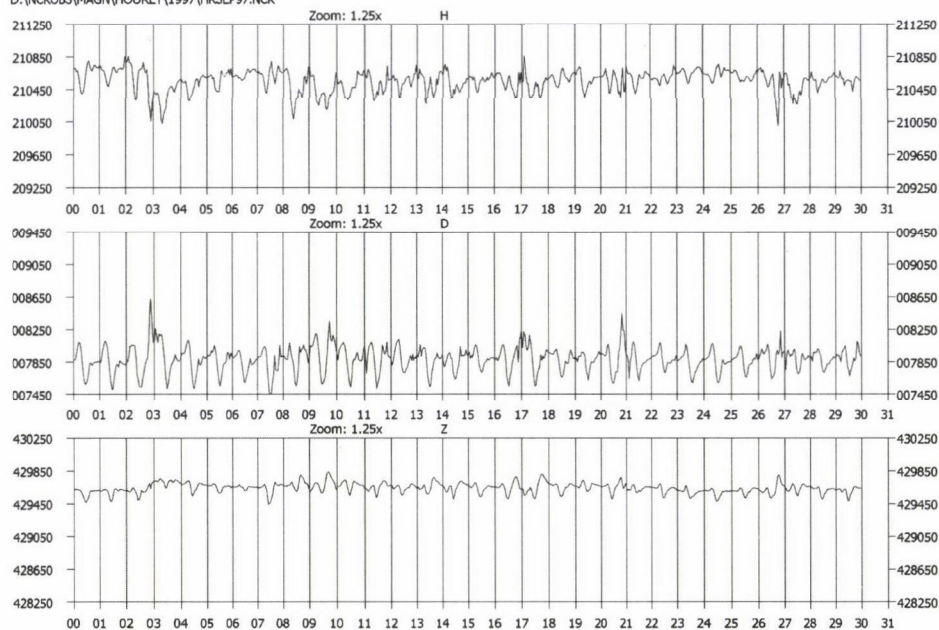
D:\NCKOBS\MAGN\HOURLY\1997\HRJUL97.NCK



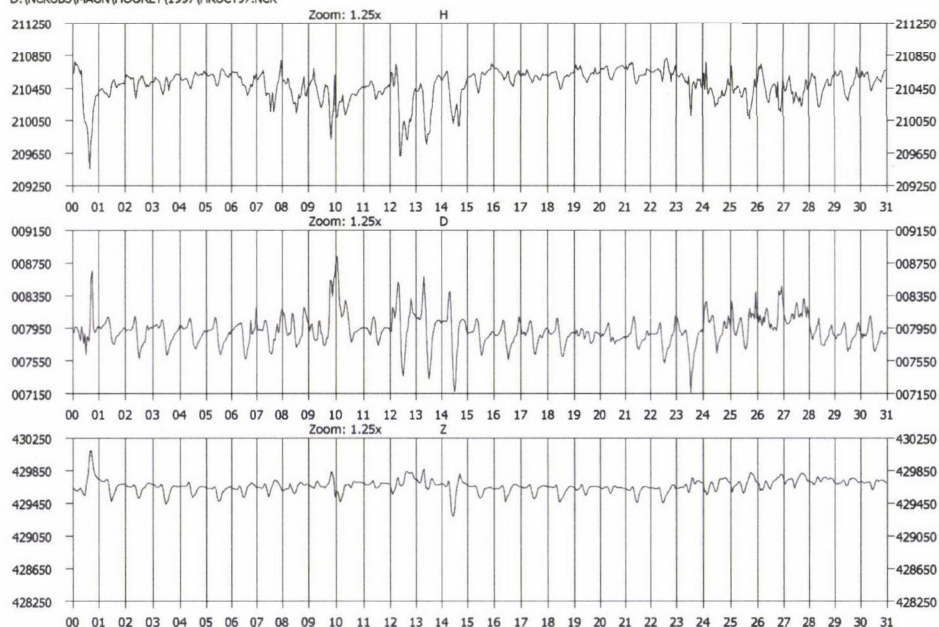
D:\NCKOBS\MAGN\HOURLY\1997\HRAUG97.NCK



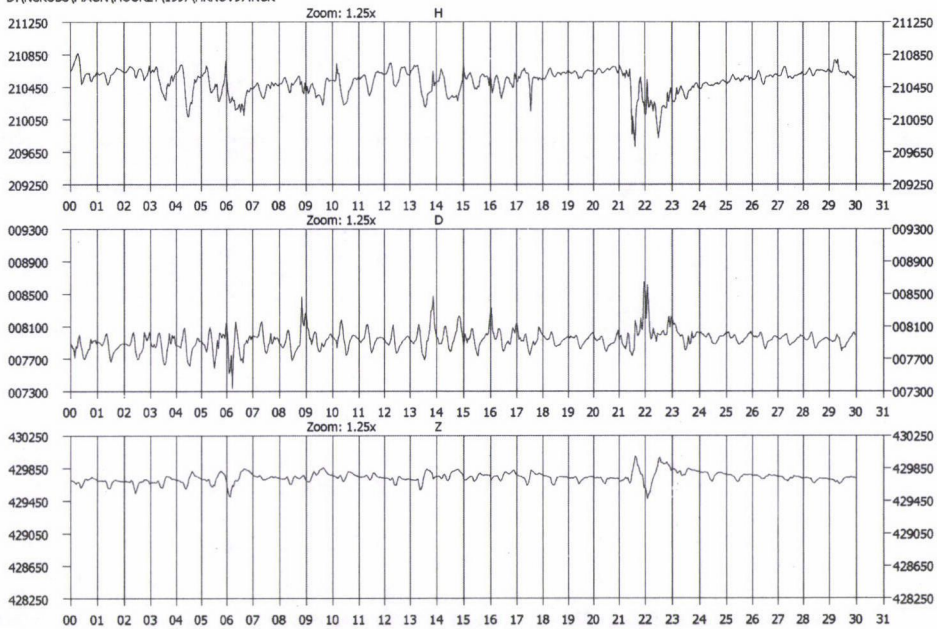
D:\NCKOBS\MAGN\HOURLY\1997\HRSEP97.NCK



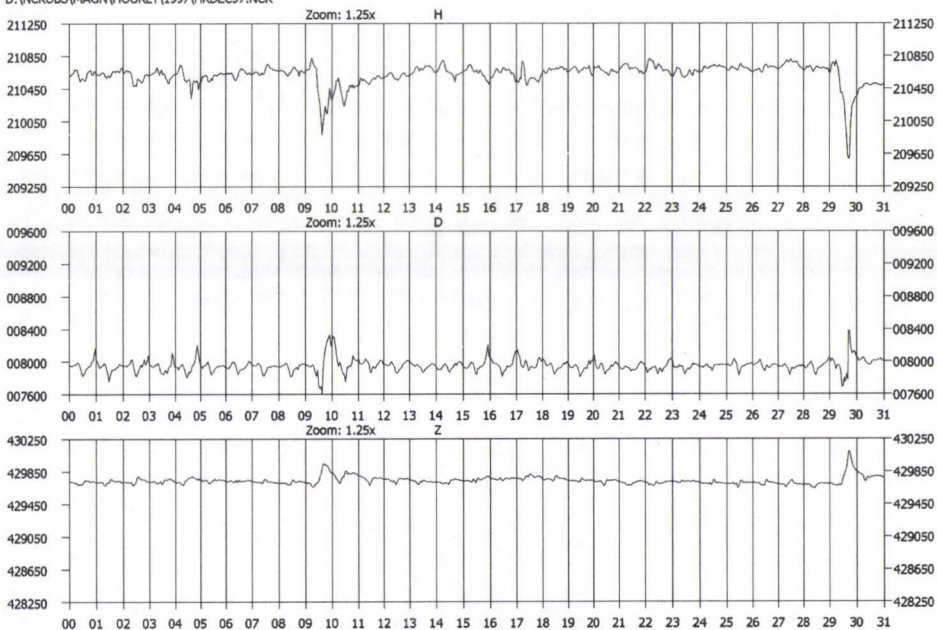
D:\NCKOBS\MAGN\HOURLY\1997\HROCT97.NCK



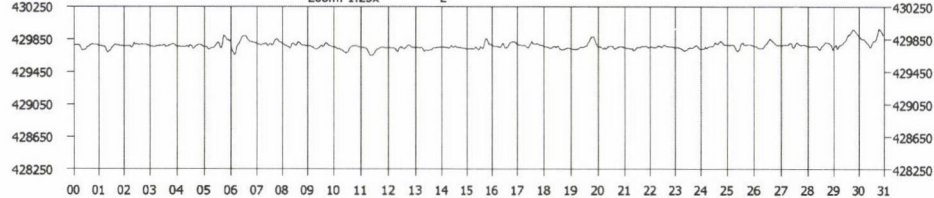
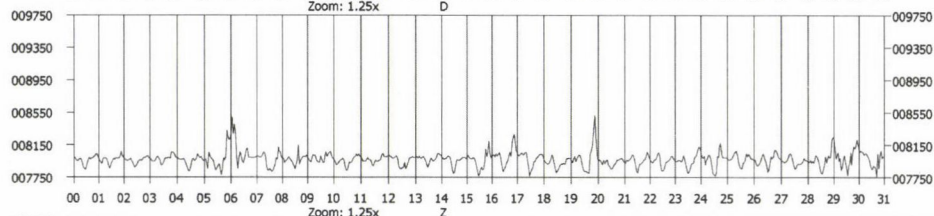
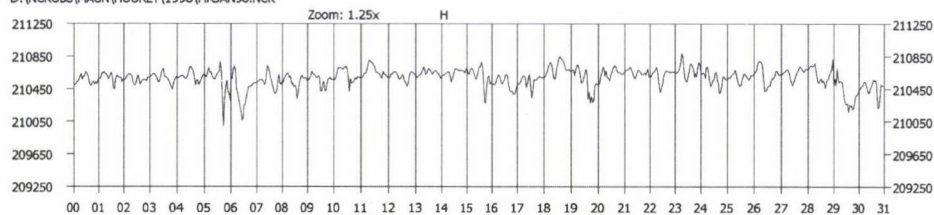
D:\NCKOBS\MAGN\HOURLY\1997\HRNOV97.NCK



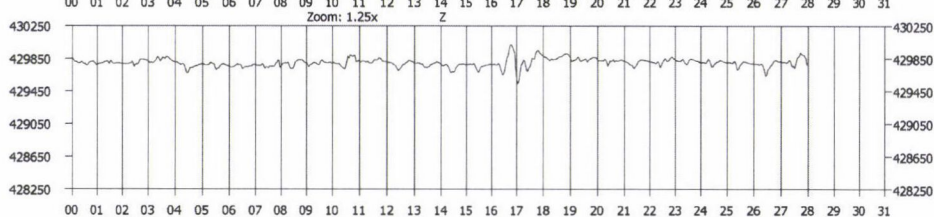
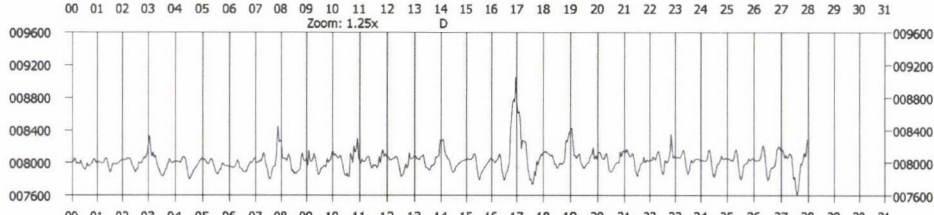
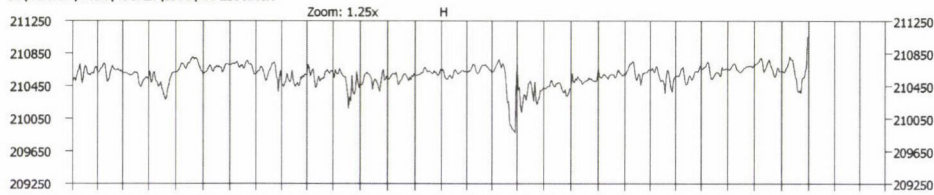
D:\NCKOBS\MAGN\HOURLY\1997\HRDEC97.NCK



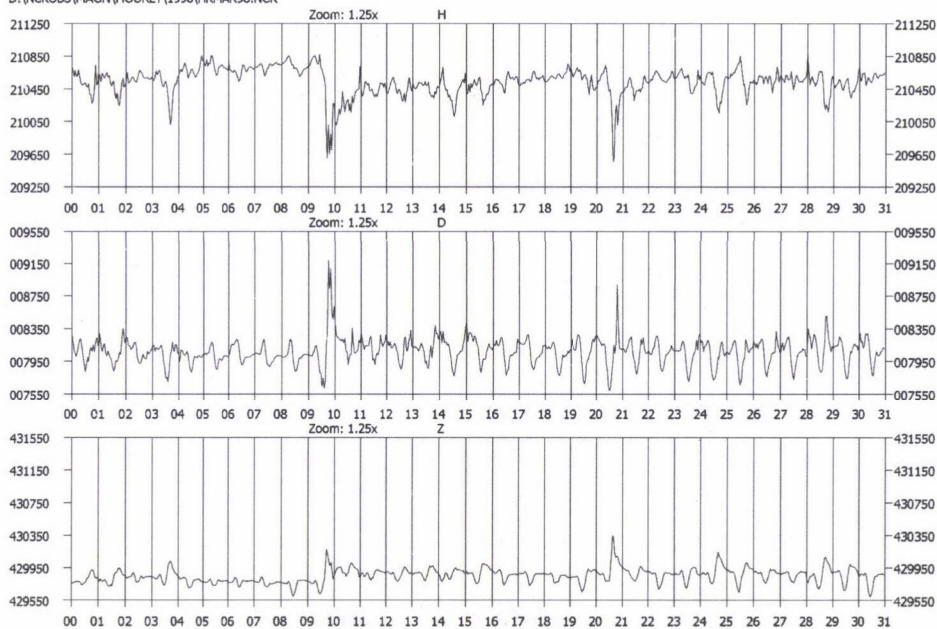
D:\NCKOBS\MAGN\HOURLY\1998\HRJAN98.NCK



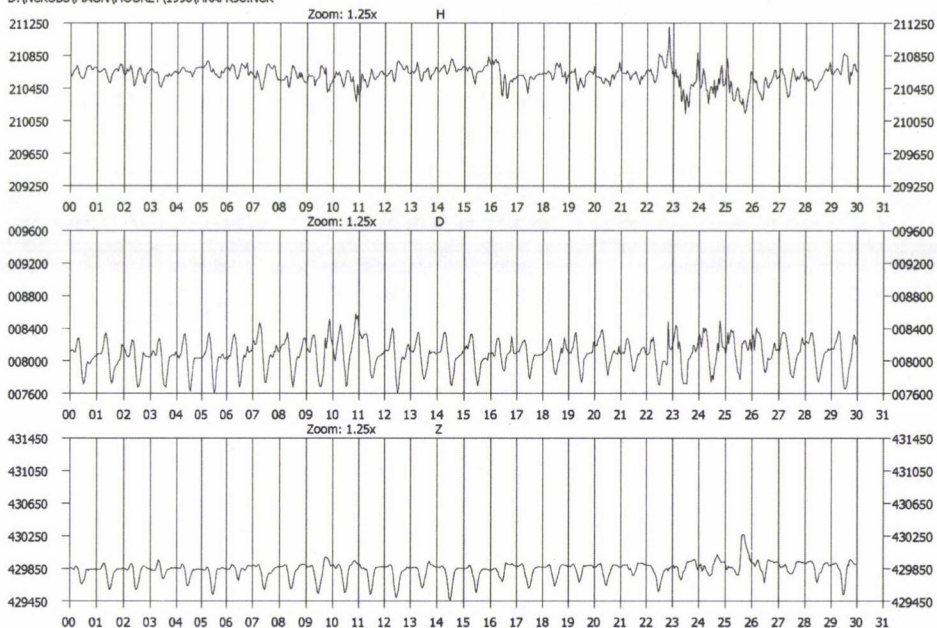
D:\NCKOBS\MAGN\HOURLY\1998\HRFEB98.NCK



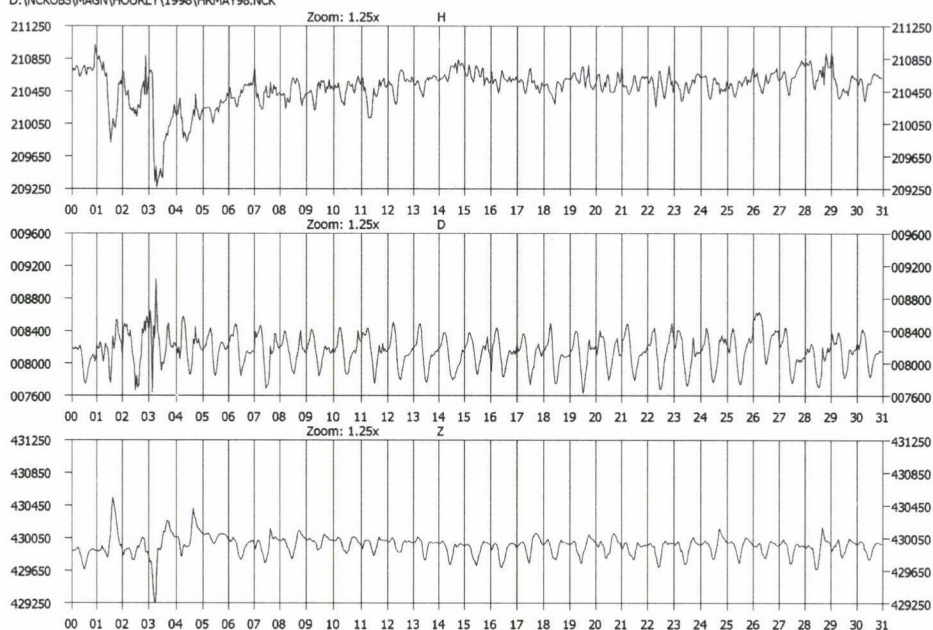
D:\NCKOBS\MAGN\HOURLY\1998\HRMAR98.NCK



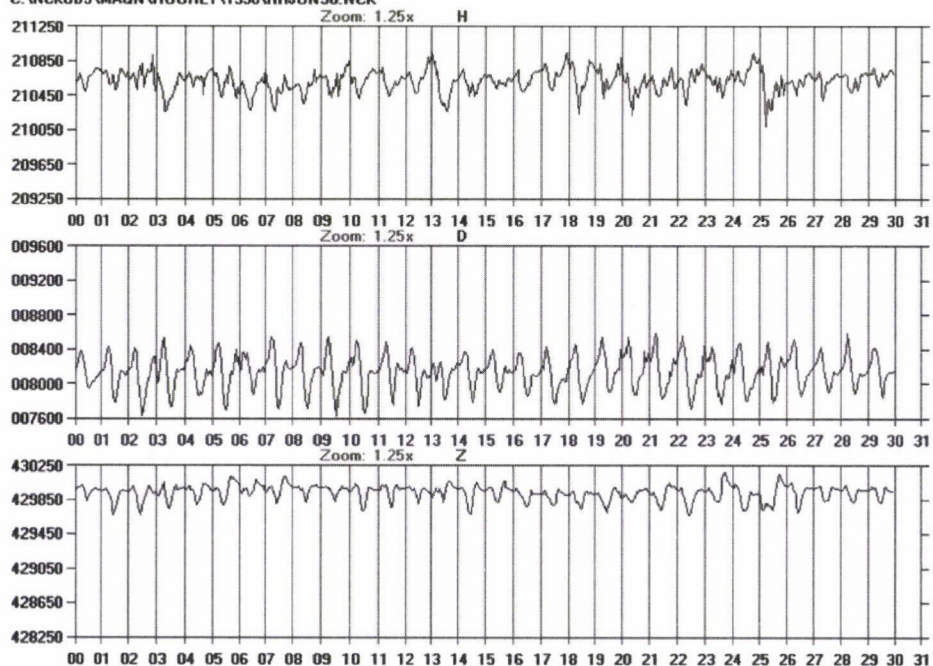
D:\NCKOBS\MAGN\HOURLY\1998\HRAPR98.NCK



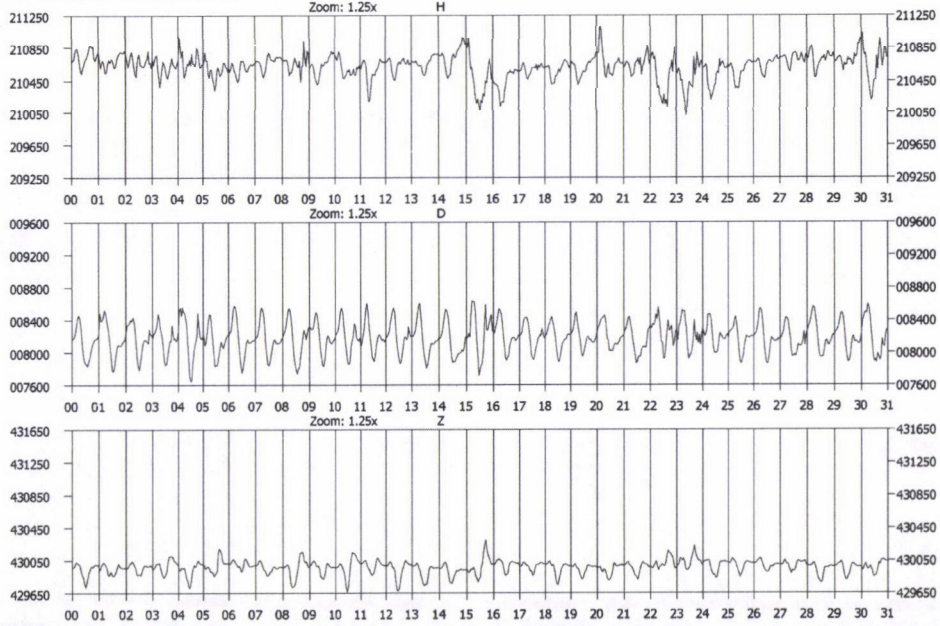
D:\WCKOBS\MAGN\HOURLY\1998\HRMAY98.NCK



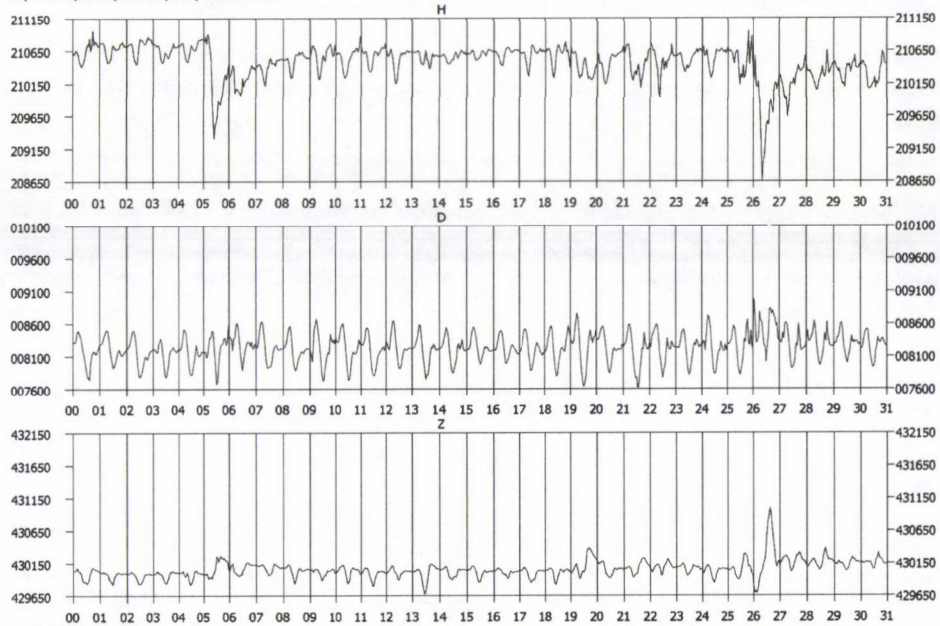
C:\WCKOBS\MAGN\HOURLY\1998\HRJUN98.NCK

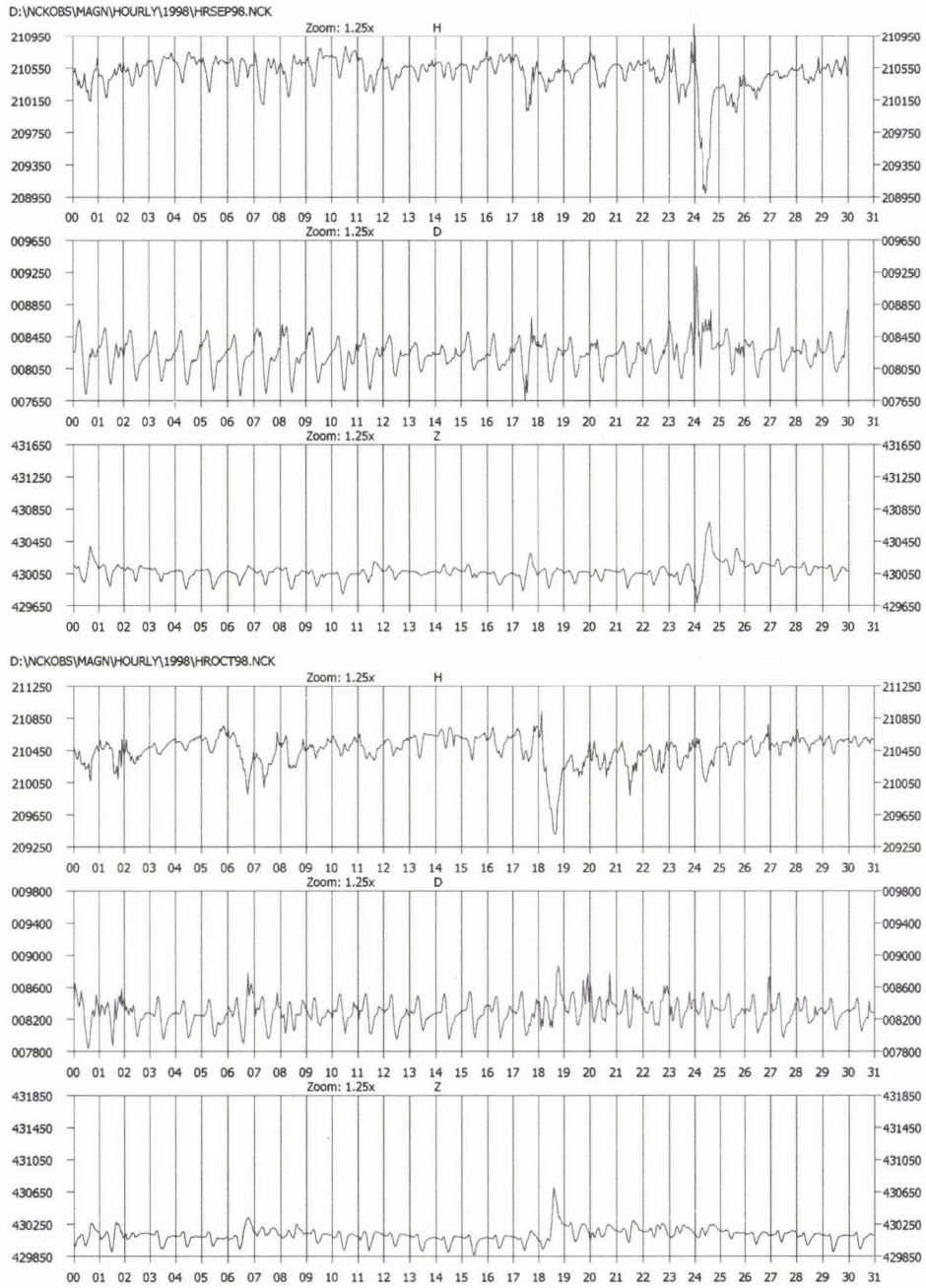


D:\WCKOBS\MAGN\HOURLY\1998\HRJUL98.NCK

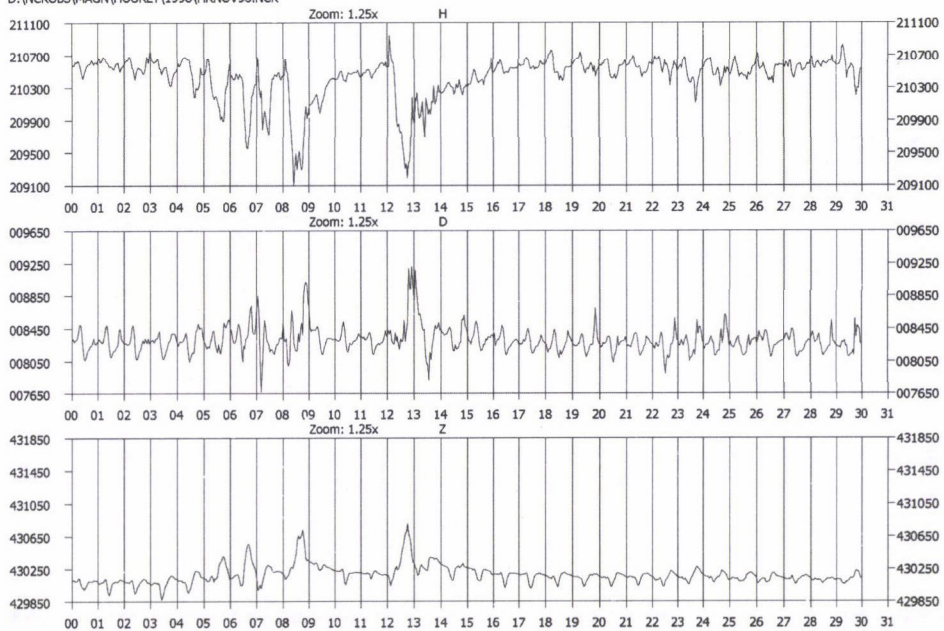


D:\WCKOBS\MAGN\HOURLY\1998\HRAUG98.NCK

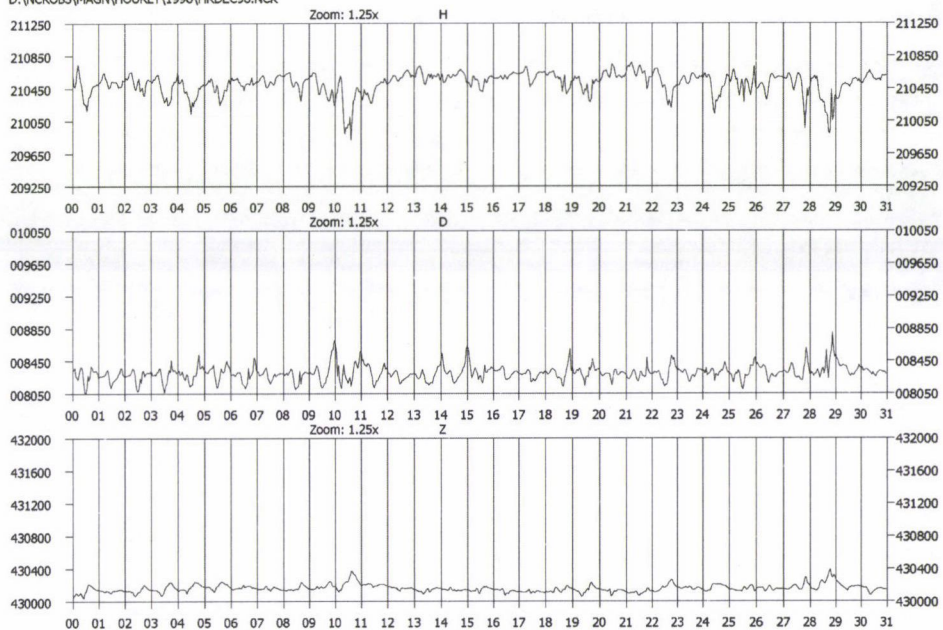




D:\NCKOBS\MAGN\HOURLY\1998\HRNOV98.NCK

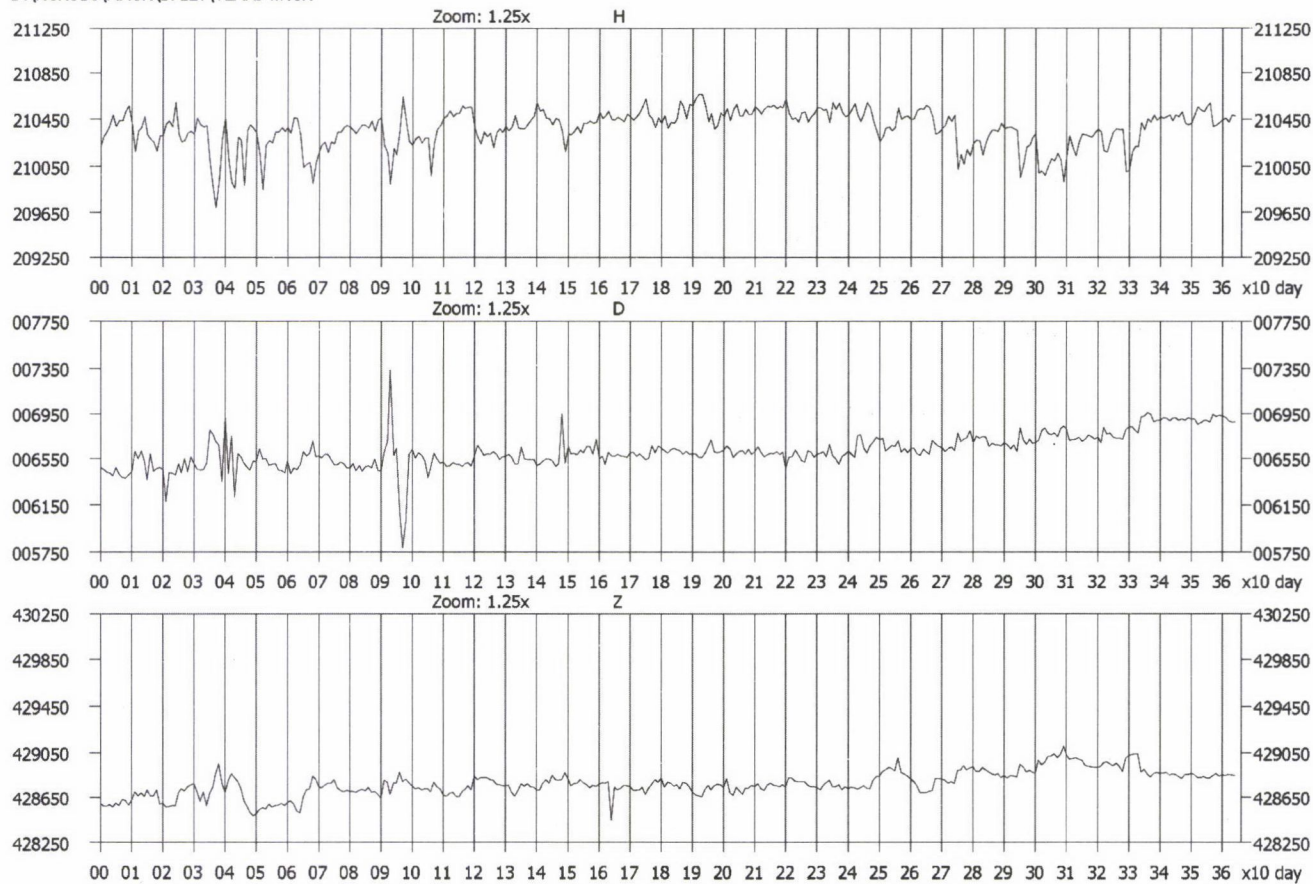


D:\NCKOBS\MAGN\HOURLY\1998\HRDEC98.NCK



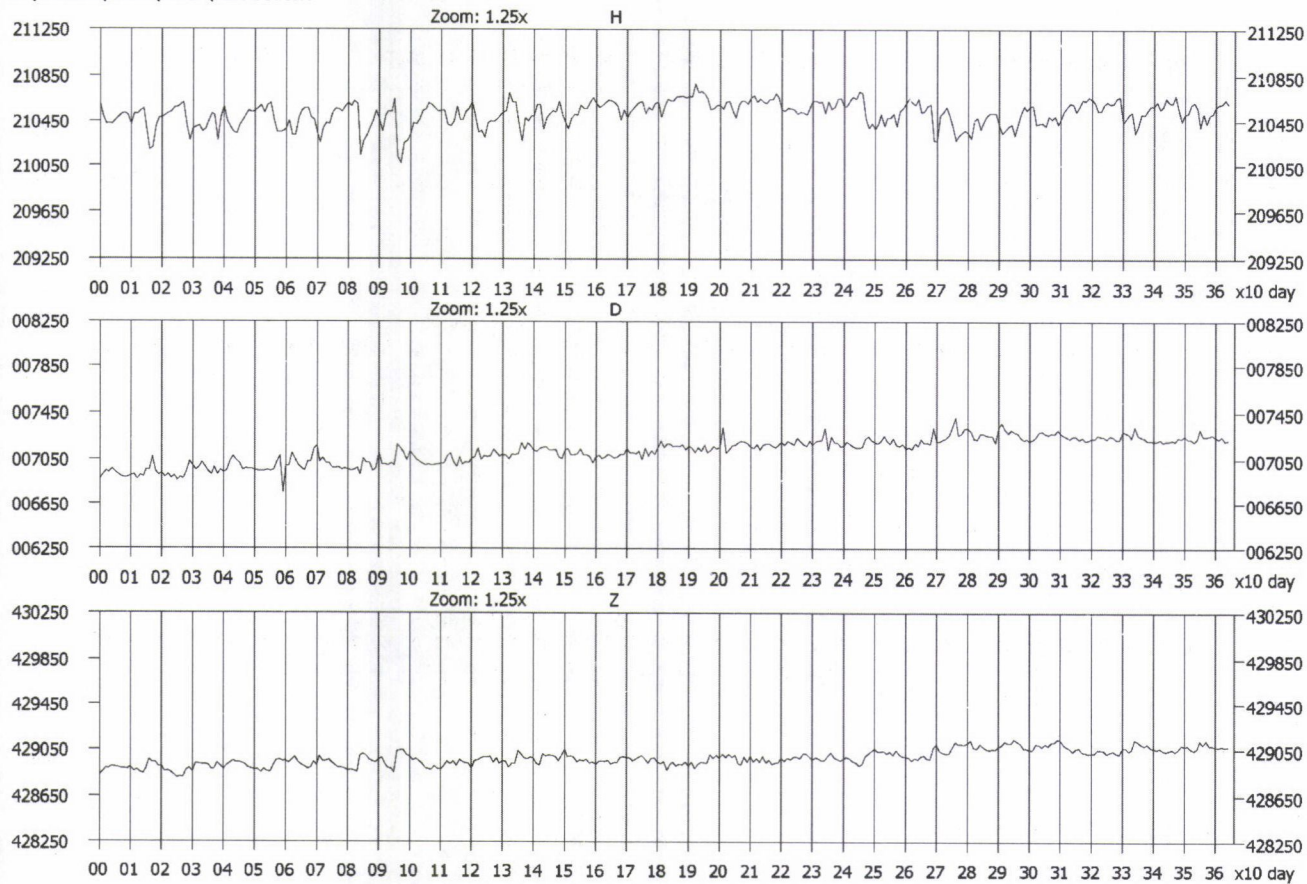
Daily mean values of H , D , Z
1994–1998

D:\NCKOBS\MAGN\DAI\YEAR94.NCK



Daily mean values 1994

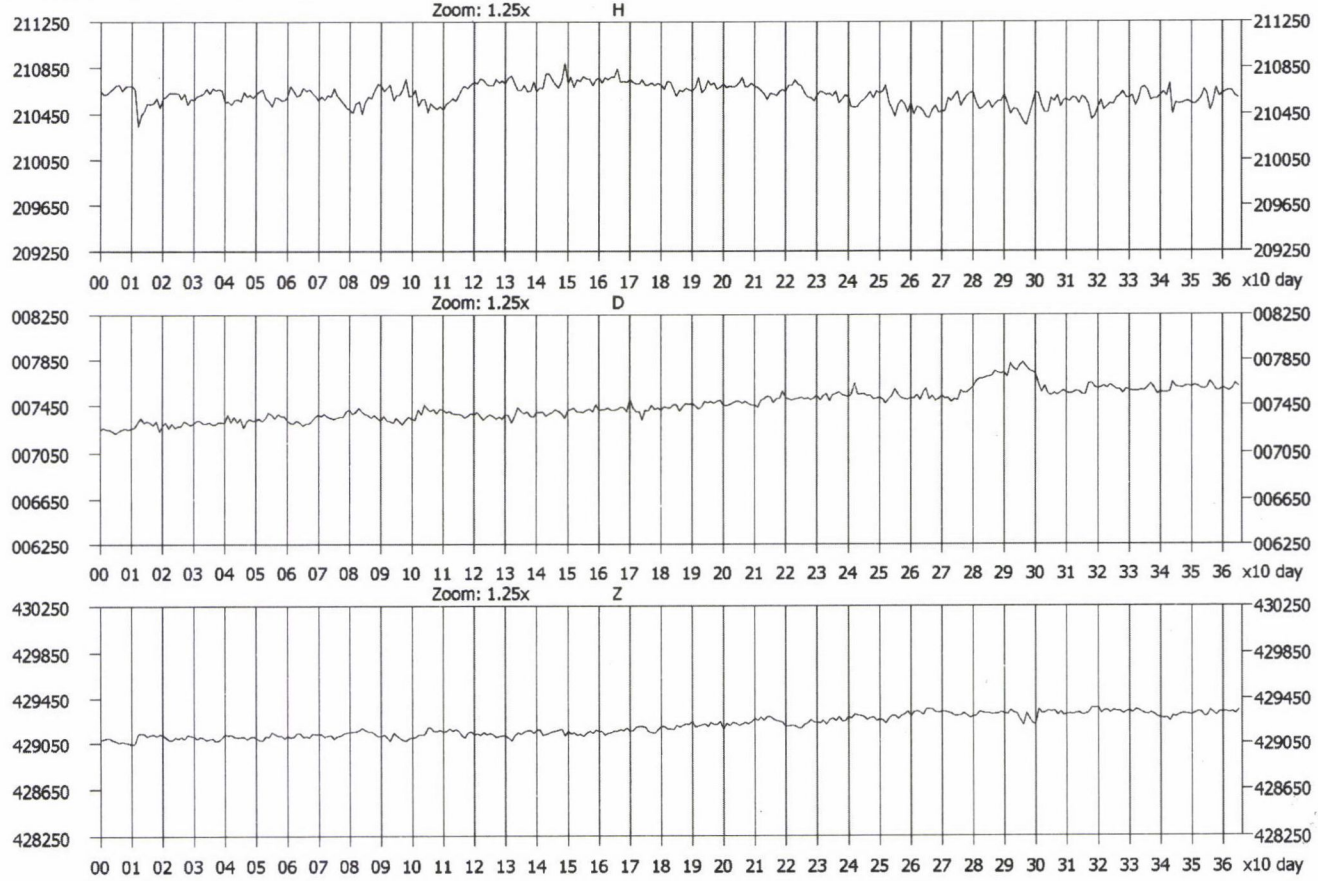
D:\NCKOBS\MAGN\DAI\YEAR95.NCK



Daily mean values 1995

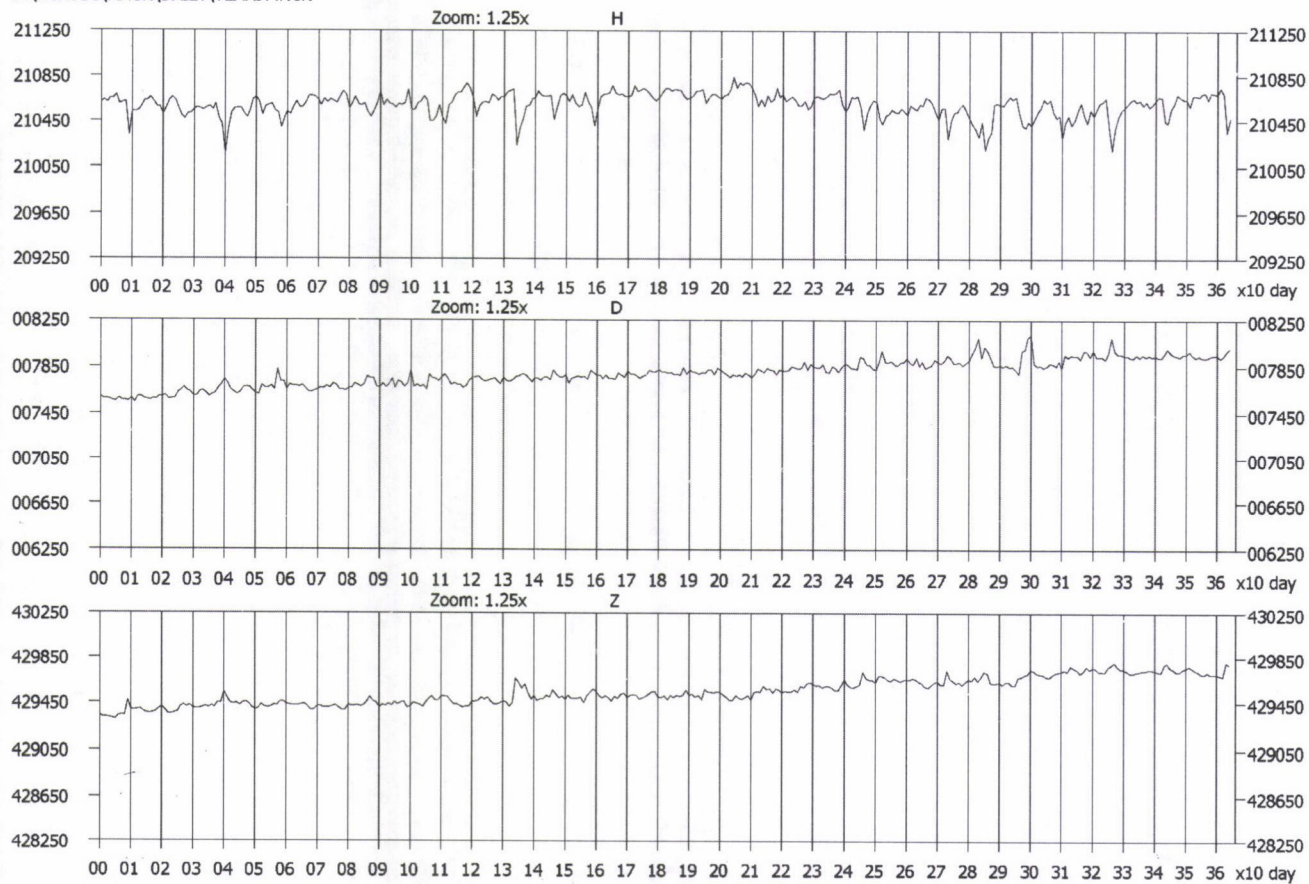
DAILY MEAN VALUES 1995

D:\NCKOBS\MAGN\DAI\YEAR96.NCK



Daily mean values 1996

D:\NCKOBS\MAGN\DAI\YEAR97.NCK

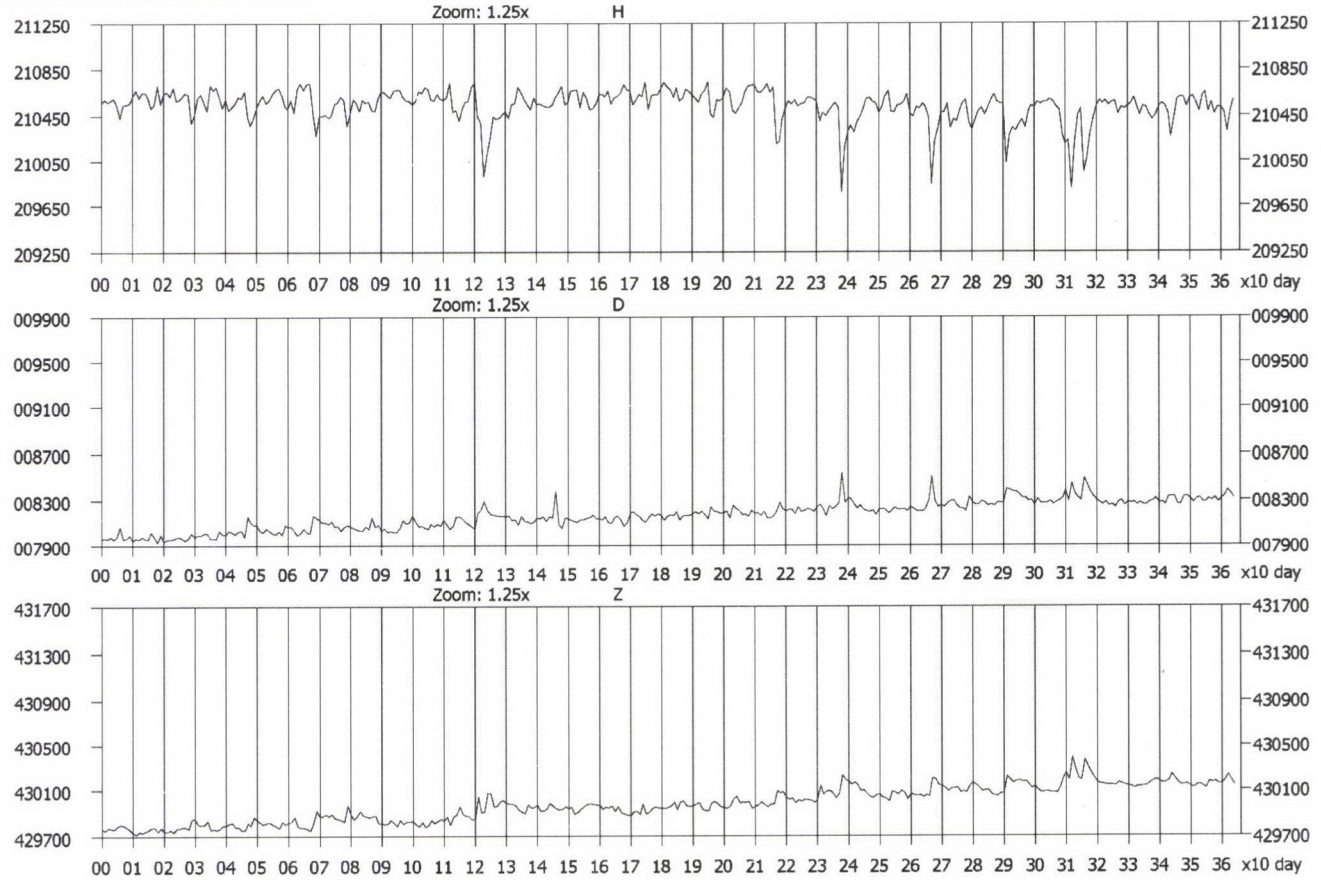


Daily mean values 1997

DAILY MEAN VALUES 1997

113

D:\NCKOBS\MAGN\DAI\YEAR98.NCK



Daily mean values 1998

Geomagnetic K indices
1994–1998

Date	K	Sum	Date	K	Sum
940101	32234434	25	940212	42235555	31
940102	12234442	22	940213	53343675	36
940103	31234451	23	940214	43334656	34
940104	13201020	9	940215	43334555	32
940105	01110022	7	940216	54333353	29
940106	32222424	21	940217	32223332	20
940107	10111031	8	940218	11121003	9
940108	21212112	12	940219	33434354	29
940109	00010120	4	940220	53332342	25
940110	01111010	5	940221	32477866	43
940111	12233665	28	940222	66445333	34
940112	54346634	35	940223	33222243	21
940113	43235445	30	940224	21111111	9
940114	43345544	32	940225	22343232	21
940115	42223464	27	940226	32102200	10
940116	33234443	26	940227	11232201	12
940117	44333444	29	940228	00231034	13
940118	33235543	28	940301	31322324	20
940119	43434244	28	940302	42222255	24
940120	42223342	22	940303	44432132	23
940121	21022253	17	940304	10230001	7
940122	42110022	12	940305	20121025	13
940123	22111222	13	940306	33221234	20
940124	20010001	4	940307	53355666	39
940125	02100023	8	940308	44445555	36
940126	33444453	30	940309	45545655	39
940127	43323445	28	940310	34445556	36
940128	43233123	21	940311	34335545	32
940129	02333222	17	940312	43445555	35
940130	31112433	18	940313	54232325	26
940131	31111214	14	940314	44334455	32
940201	21231111	12	940315	44445654	36
940202	02334340	19	940316	43334544	30
940203	11224442	20	940317	34334554	31
940204	21213553	22	940318	44333324	26
940205	43344456	33	940319	43332133	22
940206	64356676	43	940320	33112344	21
940207	45466563	39	940321	33343544	29
940208	65545655	41	940322	53234334	27
940209	43334656	34	940323	44334432	27
940210	54345554	35	940324	32344323	24
940211	44355665	38	940325	41234554	28

Date	K	Sum	Date	K	Sum
940326	32131221	15	940507	53444343	30
940327	11122225	16	940508	44444444	32
940328	11233433	20	940509	43344443	29
940329	11211012	9	940510	44534444	32
940330	10133454	21	940511	43333533	27
940331	32122111	13	940512	33222202	16
940401	01112223	12	940513	22220112	12
940402	43245576	36	940514	23433334	25
940403	54655666	43	940515	33454454	32
940404	65444555	38	940516	43334543	29
940405	43335545	32	940517	33343322	23
940406	43344655	34	940518	43334324	26
940407	44444554	34	940519	23233211	17
940408	34444455	33	940520	12121301	11
940409	44354454	33	940521	00013111	7
940410	44344544	32	940522	11012232	12
940411	44444545	34	940523	01033313	14
940412	43333455	30	940524	34243333	25
940413	22334554	28	940525	43322324	23
940414	43343543	29	940526	12333213	18
940415	33133444	25	940527	21012311	11
940416	34223365	28	940528	00024765	24
940417	56654234	35	940529	55354543	34
940418	33334354	28	940530	44444555	35
940419	52331123	20	940531	34344354	30
940420	21222111	12	940601	33433344	27
940421	22221133	16	940602	32344544	29
940422	21132123	15	940603	33334453	28
940423	00133344	18	940604	33333334	25
940424	11122301	11	940605	22243434	24
940425	31231122	15	940606	32243233	22
940426	10121011	7	940607	32223224	20
940427	12212001	9	940608	23122322	17
940428	20011011	6	940609	12222211	13
940429	11210013	9	940610	11333534	23
940430	00000000	0	940611	22242323	20
940501	02223576	27	940612	33344433	27
940502	54333355	31	940613	32122443	21
940503	54444553	34	940614	32234323	22
940504	34344444	30	940615	21121211	11
940505	34434654	33	940616	21002111	8
940506	44333345	29	940617	12122421	15

Date	K	Sum	Date	K	Sum
940618	34322422	22	940730	33122125	19
940619	12243334	22	940731	22133324	20
940620	33324333	24	940801	32211221	14
940621	32133222	18	940802	21010111	7
940622	32212222	16	940803	10111111	7
940623	00000111	3	940804	11001101	5
940624	11011000	4	940805	22121120	11
940625	00112112	8	940806	01022011	7
940626	34344443	29	940807	00011221	7
940627	43333222	22	940808	00010001	2
940628	22122345	21	940809	11001232	10
940629	44343444	30	940810	30223333	19
940630	43334444	29	940811	33233323	22
940701	44443345	31	940812	43234353	27
940702	34333434	27	940813	34335554	32
940703	22332323	20	940814	43443444	30
940704	21123332	17	940815	32222234	20
940705	21211103	11	940816	22122133	16
940706	22222235	20	940817	11122311	12
940707	23334343	25	940818	11132212	13
940708	01002210	6	940819	20001120	6
940709	10013321	11	940820	12112133	14
940710	01222210	10	940821	21014311	13
940711	01003211	8	940822	30013325	17
940712	11000200	4	940823	22111221	12
940713	02201121	9	940824	11011322	11
940714	11244545	26	940825	22232320	16
940715	53323335	27	940826	01121223	12
940716	63243435	30	940827	33222233	20
940717	42233323	22	940828	23111121	12
940718	23323231	19	940829	10111103	8
940719	31223023	16	940830	00001112	5
940720	01011111	6	940831	00023223	12
940721	13133112	15	940901	33122042	17
940722	21112110	9	940902	21011001	6
940723	11222322	15	940903	22221101	11
940724	21233223	18	940904	20011101	6
940725	32233333	22	940905	12123211	13
940726	11012111	8	940906	13243343	23
940727	25122234	21	940907	13445565	33
940728	34233234	24	940908	33343444	28
940729	32222324	20	940909	33435554	32

Date	K	Sum	Date	K	Sum
940910	43334332	25	941022	00334446	24
940911	33223142	20	941023	54436453	34
940912	11133221	14	941024	44333654	32
940913	11212225	16	941025	23321030	14
940914	22213110	12	941026	22112032	13
940915	11012121	9	941027	11011001	5
940916	21122222	14	941028	10011103	7
940917	11221312	13	941029	43356733	34
940918	21112102	10	941030	34445465	35
940920	11121122	11	941031	43255453	31
940921	11012123	11	941101	33323423	23
940922	30210132	12	941102	32334324	24
940923	10000112	5	941103	12224342	20
940924	33010111	10	941104	34232353	25
940925	20101256	17	941105	42021354	21
940926	44333322	24	941106	45353561	32
940927	33231425	23	941107	11100141	9
940928	33230211	15	941108	00010113	6
940929	30000231	9	941109	01123445	20
940929	20101112	8	941110	24332243	23
940930	00111122	8	941111	12231112	13
941001	10110011	5	941112	10100120	5
941002	00112445	17	941113	11021322	12
941003	64647644	41	941114	21120134	14
941004	43435543	31	941115	31112123	14
941005	43355554	34	941116	21001210	7
941006	34345446	33	941117	02020042	10
941007	33334555	31	941118	00121222	10
941008	33242333	23	941119	23323433	23
941009	32212252	19	941120	23435323	25
941010	32232344	23	941121	22110102	9
941011	23233352	23	941122	01010232	9
941012	23211254	20	941123	00010102	4
941013	22232233	19	941124	01101311	8
941014	32121334	19	941125	01000012	4
941015	33132112	16	941126	02465652	30
941016	11120111	8	941127	32345543	29
941017	10121002	7	941128	21333421	19
941018	20010123	9	941129	01112332	13
941019	10002334	13	941130	32243334	24
941020	31112333	17	941201	14234325	24
941021	10010000	2	941202	23225555	29

Date	K	Sum
941203	42223123	19
941204	20001140	8
941205	01112222	11
941206	33333554	29
941207	43223434	25
941208	32333333	23
941209	31121233	16
941210	32221333	19
941211	21111344	17
941212	42232344	24
941213	33323421	21
941214	31021133	14
941215	22325444	26
941216	43234222	22
941217	11201231	11
941218	20001333	12
941219	03112101	9
941220	21222333	18
941221	22211111	11
941222	22000000	4
941223	21211224	15
941224	33343655	32
941225	42223434	24
941226	32233333	22
941227	12113255	20
941228	30022313	14
941229	43333300	19
941230	22111210	10
941231	00000123	6

Date	K	Sum	Date	K	Sum
950101	00000131	5	950212	43133565	30
950102	02232554	23	950213	53346545	35
950103	64433534	32	950214	43236552	30
950104	33334232	23	950215	32231445	24
950105	42343444	28	950216	11110323	12
950106	22234345	25	950217	00112211	8
950107	22233223	19	950218	22131341	17
950108	31112320	13	950219	12110013	9
950109	21210012	9	950220	01011110	5
950110	00112133	11	950221	20011013	8
950111	33235232	23	950222	00000000	0
950112	30000112	7	950223	10112011	7
950113	11222011	10	950224	10000011	3
950114	10100123	8	950225	00000000	0
950115	21011001	6	950226	22312333	19
950116	11234253	21	950227	14134354	25
950117	33242466	30	950228	43242475	31
950118	55433223	27	950301	44443555	34
950119	20012220	9	950302	53445533	32
950120	00011153	11	950303	41221013	14
950121	11110242	12	950304	31224347	26
950122	11113213	13	950305	41133343	22
950123	23111001	9	950306	03111100	7
950124	00010000	1	950307	01020100	4
950125	11110110	6	950308	11100021	6
950126	00001002	3	950309	11323265	23
950127	00021000	3	950310	63222233	23
950128	00000021	3	950311	43323566	32
950129	14234546	29	950312	64333555	34
950130	54334555	34	950313	42345644	32
950131	53324464	31	950314	33134443	25
950201	33133332	21	950315	22233044	20
950202	33335544	30	950316	33223233	21
950203	33234464	29	950317	22222333	19
950204	53224533	27	950318	11212021	10
950205	21101201	8	950319	20000022	6
950206	32022313	16	950320	10011110	5
950207	43110224	17	950321	00000000	0
950208	34234222	22	950322	00111001	4
950209	02100100	4	950323	00042231	12
950210	00000113	5	950324	30312212	14
950211	22434545	29	950325	11121012	9

Date	K	Sum	Date	K	Sum
950326	20234444	23	950507	22334344	25
950327	32334343	25	950508	43233332	23
950328	32233431	21	950509	12132143	17
950329	33333222	21	950510	21111121	10
950330	22113211	13	950511	22122021	12
950331	12021232	13	950512	21023221	13
950401	00001454	14	950513	12243312	18
950402	54233110	19	950514	12210110	8
950403	00000000	0	950515	01002122	8
950404	10001102	5	950516	33355555	34
950405	32233253	23	950517	44242342	25
950406	30001023	9	950518	31223234	20
950407	35445676	40	950519	12322232	17
950408	33344644	31	950520	31332343	22
950409	43333423	25	950521	21001011	6
950410	34334334	27	950522	11022113	11
950411	23333254	25	950523	31022455	22
950412	43221432	21	950524	35343423	27
950413	22221113	14	950525	23114331	18
950414	31011111	9	950526	21233444	23
950415	00001110	3	950527	00022230	9
950416	00010022	5	950528	11122102	10
950417	31110111	9	950529	11123232	15
950418	20122232	14	950530	14355454	31
950419	11110012	7	950531	43344553	31
950420	12122221	13	950601	33233543	26
950421	00000101	2	950602	32234432	23
950422	10032443	17	950603	33433333	25
950423	33233425	25	950604	21122321	14
950424	44322353	26	950605	22011313	13
950425	54123322	22	950606	31122121	13
950426	32332334	23	950607	30002122	10
950427	33644241	27	950608	22100001	6
950428	22244321	20	950609	10021221	9
950429	21113223	15	950610	32222211	15
950430	10011012	6	950611	21011011	7
950501	00000012	3	950612	01000100	2
950502	25335655	34	950613	10000101	3
950503	54454544	35	950614	00012223	10
950504	44325445	31	950615	11121211	10
950505	33354544	31	950616	32133341	20
950506	53453333	29	950617	21112211	11

Date	K	Sum	Date	K	Sum
950618	02323213	16	950730	20012223	12
950619	33345443	29	950731	21100313	11
950620	24423423	24	950801	22211000	8
950621	23133322	19	950802	11111220	9
950622	11014221	12	950803	22322221	16
950623	02222311	13	950804	01211121	9
950624	02100111	6	950805	12132322	16
950625	02014443	18	950806	11011112	8
950626	43322233	22	950807	00034333	16
950627	21220111	10	950808	44322253	25
950628	10212324	15	950809	43243445	29
950629	11112411	12	950810	43432232	23
950630	31145454	27	950811	11122223	14
950701	53222222	20	950812	40132123	16
950702	21021221	11	950813	22223324	20
950703	32122133	17	950814	53342444	29
950704	32002310	11	950815	33223244	23
950705	01001100	3	950816	22311200	11
950706	00001102	4	950817	20134222	16
950707	12121100	8	950818	21012232	13
950708	10012110	6	950819	31222343	20
950709	01013310	9	950820	11112211	10
950710	01000100	2	950821	10010000	2
950711	00000001	1	950822	01014255	18
950712	10012212	9	950823	43122111	15
950713	22121110	10	950824	10001123	8
950714	00021333	12	950825	33232223	20
950715	21123222	15	950826	12111003	9
950716	11225635	25	950827	31121131	13
950717	43233523	25	950828	01111211	8
950718	32124232	19	950829	21232232	17
950719	21221124	15	950830	21111011	8
950720	32243301	18	950831	00000202	4
950721	11132210	11	950901	30011030	8
950722	01112221	10	950902	11001122	8
950723	30112332	15	950903	21011122	10
950724	34444344	30	950904	01111113	9
950725	42121000	10	950905	32245555	31
950726	21112122	12	950906	53343323	26
950727	11211131	11	950907	32333542	25
950728	21121021	10	950908	34434542	29
950729	32021311	13	950909	44334313	25

Date	K	Sum	Date	K	Sum
950910	00121334	14	951022	32211153	18
950911	63333444	30	951023	34232243	23
950912	22232354	23	951024	30113532	18
950913	23243333	23	951025	22100000	5
950914	11011234	13	951026	00000212	5
950915	34324641	27	951027	10101113	8
950916	32233223	20	951028	11000011	4
950917	21012120	9	951029	00111002	5
950918	00010012	4	951030	10023522	15
950919	10010122	7	951031	54321344	26
950920	22122323	17	951101	43325254	28
950921	22112212	13	951102	34342530	24
950922	10011121	7	951103	01210130	8
950923	32123254	22	951104	01012521	12
950924	32010211	10	951105	41133425	23
950925	10110210	6	951106	42434352	27
950926	10120112	8	951107	22222132	16
950927	21234565	28	951108	22121321	14
950928	12433000	13	951109	10011011	5
950929	00021200	5	951110	22110131	11
950930	00020113	7	951111	10001014	7
951001	10000033	7	951112	13202150	14
951002	20134225	19	951113	00012211	7
951003	43123544	26	951114	10010012	5
951004	43347655	37	951115	11010000	3
951005	32345225	26	951116	10021003	7
951006	23354535	30	951117	31221103	13
951007	54334433	29	951118	01010113	7
951008	33234552	27	951119	22100114	11
951009	02334544	25	951120	20210001	6
951010	33321101	14	951121	00000101	2
951011	13223533	22	951122	21120413	14
951012	33333133	22	951123	30010000	4
951013	31222333	19	951124	00000110	2
951014	11121223	13	951125	10000012	4
951015	20111203	10	951126	22000000	4
951016	21112243	16	951127	00253444	22
951017	13211211	12	951128	12221343	18
951018	10143566	26	951129	42222511	19
951019	64332124	25	951130	33221101	13
951020	25454652	33	951201	22014555	24
951021	21224434	22	951202	41223232	19

Date	K	Sum
951203	10122253	16
951204	44331211	19
951205	20010022	7
951206	00011212	7
951207	10111210	7
951208	01000002	3
951209	24123211	16
951210	32110001	8
951211	11000120	5
951212	01102243	13
951213	10000011	3
951214	32112110	11
951215	11224543	22
951216	34324121	20
951217	11122543	19
951218	11010001	4
951219	31112210	11
951220	01113200	8
951221	11111234	14
951222	31112463	21
951223	32021131	13
951224	22545433	28
951225	12233432	20
951226	23223342	21
951227	32112232	16
951228	11100211	7
951229	10000122	6
951230	10010110	4
951231	11312231	14

Date	K	Sum	Date	K	Sum
960101	10111042	10	960212	32334134	23
960102	10111333	13	960213	23322453	24
960103	31122211	13	960214	42233322	21
960104	10122101	8	960215	31111152	15
960105	22122223	16	960216	23122413	18
960106	32112212	14	960217	32101132	13
960107	00010133	8	960218	22222435	22
960108	21010020	6	960219	31020033	12
960109	10012012	7	960220	21013224	15
960110	20001133	10	960221	21210011	8
960111	11001133	10	960222	23321131	16
960112	10120215	12	960223	31133523	21
960113	34434633	30	960224	44231352	24
960114	31444346	29	960225	21133554	24
960115	43134324	24	960226	52134144	24
960116	32111231	14	960227	23222354	23
960117	23111253	18	960228	23211212	14
960118	23222332	19	960229	10012255	16
960119	01121335	16	960301	11011131	9
960120	21323110	13	960302	10000002	3
960121	10221323	14	960303	21112223	14
960122	10102332	12	960304	22311332	17
960123	30011110	7	960305	12220032	12
960124	01000433	11	960306	00113200	7
960125	12121132	13	960307	00111020	5
960126	32121331	16	960308	12322001	11
960127	21022223	14	960309	11122332	15
960128	22110044	14	960310	11122144	16
960129	42433453	28	960311	44333344	28
960130	23111224	16	960312	23133445	25
960131	42222233	20	960313	43244433	27
960201	31001332	13	960314	31212033	15
960202	33123421	19	960315	20111130	9
960203	00112012	7	960316	23032211	14
960204	11112224	14	960317	24332343	24
960205	23010111	9	960318	32022132	15
960206	10010020	4	960319	22322444	23
960207	20101324	13	960320	33224355	27
960208	32212231	16	960321	43343556	33
960209	31122124	16	960322	22132443	21
960210	02002245	15	960323	31110032	11
960211	55252343	29	960324	41133335	23

Date	K	Sum	Date	K	Sum
960325	53323421	23	960506	10001112	6
960326	22113333	18	960507	20021102	8
960327	23132113	16	960508	22121110	10
960328	13121213	14	960509	21002212	10
960329	22111332	15	960510	02012121	9
960330	20112212	11	960511	11112211	10
960331	10110223	10	960512	00100023	6
960401	32112233	17	960513	32333324	23
960402	01021214	11	960514	32122134	18
960403	00021113	8	960515	01223240	14
960404	31225313	20	960516	11211243	15
960405	30110202	9	960517	21231011	11
960406	10111001	5	960518	00000000	0
960407	00010010	2	960519	10231232	14
960408	01002203	8	960520	41025333	21
960409	33231333	21	960521	21122331	15
960410	21220111	10	960522	01113133	13
960411	31212204	15	960523	12101202	9
960412	43343444	29	960524	22222232	17
960413	11012215	13	960525	12022312	13
960414	33234346	28	960526	33021201	12
960415	43422323	23	960527	01012434	15
960416	21211323	15	960528	10001101	4
960417	44223545	29	960529	11243322	18
960418	44334234	27	960530	32121222	15
960419	33334553	29	960531	21122123	14
960420	33244233	24	960601	11001101	5
960421	33323344	25	960602	11101211	8
960422	23012212	13	960603	00111102	6
960423	32111133	15	960604	21000211	7
960424	10011231	9	960605	12120123	12
960425	22111111	10	960606	24343421	23
960426	20012110	7	960607	12221210	11
960427	10012034	11	960608	11011132	10
960428	21010111	7	960609	10002321	9
960429	00121112	8	960610	11022111	9
960430	12122120	11	960611	01112221	10
960501	22222132	16	960612	10012110	6
960502	00123112	10	960613	00000001	1
960503	11012213	11	960614	01000101	3
960504	21123242	17	960615	01122222	12
960505	31122100	10	960616	22111121	11

Date	K	Sum	Date	K	Sum
960617	21123213	15	960729	01011000	3
960618	11110225	13	960730	22210032	12
960619	52132323	21	960731	41244413	23
960620	31022110	10	960801	43212325	22
960621	11013112	10	960802	21113101	10
960622	20002212	9	960803	22231213	16
960623	11011111	7	960804	01112221	10
960624	21010230	9	960805	21012121	10
960625	00010112	5	960806	10112331	12
960626	10011111	6	960807	00220231	10
960627	01131222	12	960808	01011111	6
960628	32002122	12	960809	20022322	13
960629	30122333	17	960810	11001100	4
960630	21111121	10	960811	20000122	7
960701	11003233	13	960812	10010013	6
960702	31011223	13	960813	32112111	12
960703	33132222	18	960814	11024242	16
960704	24221231	17	960815	11222211	12
960705	23122210	13	960816	21233442	21
960706	11111210	8	960817	43222103	17
960707	22112210	11	960818	10112211	9
960708	11232423	18	960819	11111102	8
960709	11020000	4	960820	11223231	15
960710	01010011	4	960821	01020021	6
960711	00001101	3	960822	01002211	7
960712	11111123	11	960823	23223022	16
960713	21022222	13	960824	22122213	15
960714	11222134	16	960825	42222442	22
960715	12113432	17	960826	33211224	18
960716	02011221	9	960827	32221433	20
960717	22112102	11	960828	40123343	20
960718	11111311	10	960829	54534435	33
960719	20012112	9	960830	52322233	22
960720	11132322	15	960831	23222130	15
960721	11122332	15	960901	21110031	9
960722	12101232	12	960902	01111112	8
960723	11111210	8	960903	00000011	2
960724	01000111	4	960904	00032324	14
960725	11122331	14	960905	11011102	7
960726	11001222	9	960906	21111201	9
960727	01112100	6	960907	11112012	9
960728	10003442	14	960908	22012010	8

Date	K	Sum	Date	K	Sum
960909	00121234	13	961021	12111312	12
960910	54444353	32	961022	43234656	33
960911	34233235	25	961023	65332433	29
960912	53425534	31	961024	42112321	16
960913	52232344	25	961025	10120131	9
960914	22221221	14	961026	30111110	8
960915	21223353	21	961027	00022012	7
960916	13432513	22	961028	44232244	25
960917	32111333	17	961029	32124244	22
960918	41334334	25	961030	12111553	19
960919	10133642	20	961031	22102122	12
960920	53354335	31	961101	20101001	5
960921	43444553	32	961102	00000000	0
960922	33435522	27	961103	00000022	4
960923	24343533	27	961104	20133223	16
960924	11212131	12	961105	20101122	9
960925	13222312	16	961106	22020224	14
960926	33222464	26	961107	01000211	5
960927	53132313	21	961108	01111110	6
960928	12223432	19	961109	02122252	16
960929	21212130	12	961110	41112220	13
960930	01021100	5	961111	00010220	5
961001	01100023	7	961112	31212102	12
961002	21113323	16	961113	11012355	18
961003	23313354	24	961114	62023454	26
961004	11012322	12	961115	31244431	22
961005	00010020	3	961116	10000122	6
961006	10010100	3	961117	21221155	19
961007	00001232	8	961118	33223341	21
961008	21222352	19	961119	33113223	18
961009	24223354	25	961120	20111344	16
961010	34223232	21	961121	31000112	8
961011	10013322	12	961122	10002200	5
961012	23134424	23	961123	00000021	3
961013	35231323	22	961124	00022315	13
961014	52233411	21	961125	12221111	11
961015	11100121	7	961126	21114211	13
961016	32224422	21	961127	43221001	13
961017	01020223	10	961128	33120210	12
961018	54432234	27	961129	01101222	9
961019	43355636	35	961130	00000001	1
961020	43323323	23	961201	00011202	6

Date	K	Sum
961202	02020542	15
961203	22021222	13
961204	12122454	21
961205	00000000	0
961206	00001001	2
961207	00121120	7
961208	00010211	5
961209	00000226	10
961210	52432442	26
961211	41232242	20
961212	41122221	15
961213	11111221	10
961214	00223033	13
961215	33022454	23
961216	31232333	20
961217	22221321	15
961218	11001221	8
961219	00000002	2
961220	00000100	1
961221	02112323	14
961222	10013234	14
961223	23112200	11
961224	11001301	7
961225	11111102	8
961226	00010011	3
961227	10000212	6
961228	00010011	3
961229	00000002	2
961230	31022203	13
961231	11110121	8

Date	K	Sum	Date	K	Sum
970101	10011111	6	970212	42210000	9
970102	10111121	8	970213	10111101	6
970103	10010122	7	970214	11220112	10
970104	10010001	3	970215	00122310	9
970105	11021200	7	970216	00123033	12
970106	00011001	3	970217	22332132	18
970107	23123422	19	970218	12111211	10
970108	34102122	15	970219	00001001	2
970109	31121021	11	970220	00012121	7
970110	34454443	31	970221	03233203	16
970111	54223023	21	970222	30011313	12
970112	11431232	17	970223	12223112	14
970113	22112221	13	970224	02232003	12
970114	00100122	6	970225	30111222	12
970115	00101210	5	970226	33234421	22
970116	00100002	3	970227	32214347	26
970117	00001011	3	970228	64334444	32
970118	21110111	8	970301	31223442	21
970119	10011320	8	970302	13232301	15
970120	11112323	14	970303	00132423	15
970121	31113321	15	970304	30102011	8
970122	11000122	7	970305	00002443	13
970123	20000010	3	970306	41223300	15
970124	02010213	9	970307	00223123	13
970125	21001033	10	970308	10012211	8
970126	22124465	26	970309	00000000	0
970127	33231455	26	970310	00000003	3
970128	34325554	31	970311	21000001	4
970129	21222142	16	970312	23334232	22
970130	21204443	20	970313	21200232	12
970131	12011133	12	970314	11110112	8
970201	20112211	10	970315	41110121	11
970202	12211344	18	970316	22221211	13
970203	41000123	11	970317	11111133	12
970204	00120111	6	970318	12111212	11
970205	00012221	8	970319	00011000	2
970206	13223112	15	970320	00000020	2
970207	11000034	9	970321	00011111	5
970208	31136642	26	970322	23232210	15
970209	22224455	26	970323	00012110	5
970210	33333344	26	970324	01132145	17
970211	33233345	26	970325	21223334	20

Date	K	Sum	Date	K	Sum
970326	22333445	26	970507	10100012	5
970327	40000231	10	970508	10000112	5
970328	00113554	19	970509	20011000	4
970329	33242345	26	970510	11011112	8
970330	22232232	18	970511	20222010	9
970331	01011232	10	970512	01000000	1
970401	34312101	15	970513	10011000	3
970402	12212231	14	970514	10011333	12
970403	33010031	11	970515	54655534	37
970404	43122313	19	970516	21224413	19
970405	33010334	17	970517	43031123	17
970406	20232403	16	970518	11212222	13
970407	32012223	15	970519	00010100	2
970408	00001022	5	970520	11221200	9
970409	20002113	9	970521	00022131	9
970410	20002335	15	970522	20000213	8
970411	45424345	31	970523	00011100	3
970412	30133100	11	970524	11233332	18
970413	13121211	12	970525	11102121	9
970414	20002001	5	970526	10023344	17
970415	20110000	4	970527	45322213	22
970416	00004456	19	970528	11023101	9
970417	44332344	27	970529	10000012	4
970418	32324133	21	970530	00002323	10
970419	22234223	20	970531	21022333	16
970420	01100022	6	970601	11122332	15
970421	00134433	18	970602	10012223	11
970422	53021032	16	970603	33311233	19
970423	20133133	16	970604	20011220	8
970424	53112232	19	970605	01000111	4
970425	23112233	17	970606	42132213	18
970426	11001011	5	970607	33123322	19
970427	10000123	7	970608	01132433	17
970428	00000110	2	970609	45444333	30
970429	00001131	6	970610	11110230	9
970430	33221143	19	970611	11010111	6
970501	41103546	24	970612	20122110	9
970502	42113323	19	970613	01012000	4
970503	21123332	17	970614	00000000	0
970504	21102242	14	970615	21111221	11
970505	32021122	13	970616	01123221	12
970506	20011200	6	970617	01111110	6

Date	K	Sum	Date	K	Sum
970618	01111101	6	970730	22010123	11
970619	22222324	19	970731	44333213	23
970620	00002201	5	970801	21112122	12
970621	00010010	2	970802	10001230	7
970622	14223321	18	970803	22144545	27
970623	11222223	15	970804	22220231	14
970624	01122120	9	970805	10110110	5
970625	11222133	15	970806	10000101	3
970626	31000023	9	970807	00123313	13
970627	12244333	22	970808	11021312	11
970628	22022221	13	970809	00223333	16
970629	21122112	12	970810	11211122	11
970630	21010211	8	970811	23222021	14
970701	00001110	3	970812	10121223	12
970702	21012121	10	970813	21232244	20
970703	22123201	13	970814	34421223	21
970704	21102321	12	970815	01021210	7
970705	11102200	7	970816	31121000	8
970706	13121021	11	970817	20113452	18
970707	13123444	22	970818	10112320	10
970708	10102202	8	970819	21010100	5
970709	31202443	19	970820	11111012	8
970710	01122211	10	970821	33122022	15
970711	11100112	7	970822	32212312	16
970712	10000201	4	970823	11000121	6
970713	00000100	1	970824	21122133	15
970714	01000110	3	970825	10110010	4
970715	12343322	20	970826	00000110	2
970716	10022220	9	970827	00111112	7
970717	01220223	12	970828	23321234	20
970718	23333112	18	970829	12343333	22
970719	13113222	15	970830	02123333	17
970720	21122000	8	970831	11021110	7
970721	10011221	8	970901	11011102	7
970722	20132111	11	970902	11001023	8
970723	11022123	12	970903	32233356	27
970724	21334233	21	970904	43232231	20
970725	31110121	10	970905	01012321	10
970726	10001101	4	970906	02323133	17
970727	11112221	11	970907	00002201	5
970728	10123211	11	970908	00124444	19
970729	11111011	7	970909	22233344	23

Date	K	Sum	Date	K	Sum
970910	32233445	26	971022	12020121	9
970911	32232223	19	971023	00232234	16
970912	43223342	23	971024	31245334	25
970913	40301224	16	971025	53233334	26
970914	33133232	20	971026	42103445	23
970915	32132302	16	971027	54321354	27
970916	21100112	8	971028	42232453	25
970917	10012235	14	971029	22110022	10
970918	54323322	24	971030	20121231	12
970919	00110021	5	971031	21101311	10
970920	21113001	9	971101	13332233	20
970921	11230356	21	971102	01000010	2
970922	54212110	16	971103	00010233	9
970923	10122113	11	971104	22212332	17
970924	21211102	10	971105	00123220	10
970925	01001210	5	971106	01243345	22
970926	00021122	8	971107	55323532	28
970927	31212443	20	971108	02011310	8
970928	43322321	20	971109	11021154	15
970929	31320112	13	971110	41212312	16
970930	03222332	17	971111	13022002	10
971001	42454752	33	971112	10000100	2
971002	21112103	11	971113	00011021	5
971003	12233320	16	971114	11122354	19
971004	20023001	8	971115	22011121	10
971005	10000110	3	971116	42122113	16
971006	00010222	7	971117	43020133	16
971007	11022435	18	971118	23225231	20
971008	01334424	21	971119	10010201	5
971009	22433252	23	971120	21010000	4
971010	33322456	28	971121	10000111	4
971011	55310100	15	971122	32355554	32
971012	12122102	11	971123	45344244	30
971013	21231120	12	971124	33213322	19
971014	01012100	5	971125	10000201	4
971015	00010201	4	971126	10012012	7
971016	00010013	5	971127	00002010	3
971017	10232333	17	971128	01000012	4
971018	21000101	5	971129	00000001	1
971019	00010000	1	971130	01231121	11
971020	22110030	9	971201	01001123	8
971021	10110000	3	971202	10010011	4

Date	K	Sum
971203	21112122	12
971204	20211224	14
971205	11122223	14
971206	11010112	7
971207	00012001	4
971208	00100000	1
971209	00000120	3
971210	03133445	23
971211	32123221	16
971212	11100000	3
971213	00000000	0
971214	00001112	5
971215	00010200	3
971216	00002123	8
971217	10011123	9
971218	34110023	14
971219	11001022	7
971220	10111023	9
971221	31000112	8
971222	00010021	4
971223	21111112	10
971224	22002120	9
971225	11000000	2
971226	10001001	3
971227	10000000	1
971228	00000010	1
971229	11011012	7
971230	33124651	25
971231	21110001	6

Date	K	Sum	Date	K	Sum
980101	00210101	5	980212	31111232	14
980102	03002102	8	980213	11122332	15
980103	00102011	5	980214	10131134	14
980104	00011112	6	980215	21110001	6
980105	00101220	6	980216	01111122	9
980106	34103554	25	980217	00024456	21
980107	45232210	19	980218	65333543	32
980108	00232244	17	980219	11120243	14
980109	31124410	16	980220	41120342	17
980110	22013311	13	980221	31111132	13
980111	22023210	12	980222	21222331	16
980112	01230030	9	980223	21113344	19
980113	00002210	5	980224	10111102	7
980114	10210011	6	980225	00010132	7
980115	10010002	4	980226	00000011	2
980116	20002543	16	980227	00212231	11
980117	22101343	16	980228	12234325	22
980118	20323210	13	980301	43223434	25
980119	01001222	8	980302	42333343	25
980120	13113556	25	980303	31000031	8
980121	13321001	11	980304	22002523	16
980122	00012023	8	980305	31331024	17
980123	12110012	8	980306	43313211	18
980124	03321022	13	980307	21021000	6
980125	23101541	17	980308	01001000	2
980126	00011220	6	980309	10220000	5
980127	22232221	16	980310	12353676	33
980128	00000221	5	980311	53444515	31
980129	11112324	15	980312	33333343	25
980130	53333432	26	980313	33222444	24
980131	31012354	19	980314	10122443	17
980201	22320013	13	980315	44321104	19
980202	01010000	2	980316	43323431	23
980203	00002213	8	980317	11031113	11
980204	42122200	13	980318	00010012	4
980205	02012212	10	980319	11010102	6
980206	10110210	6	980320	31123233	18
980207	00000012	3	980321	21345663	30
980208	00101245	13	980322	23333540	23
980209	33233231	20	980323	33011013	12
980210	43221133	19	980324	00222134	14
980211	33114545	26	980325	12125533	22

Date	K	Sum	Date	K	Sum
980326	01034432	17	980507	31132333	19
980327	32233343	23	980508	43244141	23
980328	33121224	18	980509	03301321	13
980329	54224554	31	980510	01122332	14
980330	11222234	17	980511	11121224	14
980331	33122002	13	980512	32111330	14
980401	20100020	5	980513	02101001	5
980402	00000113	5	980514	00011001	3
980403	20301211	10	980515	11004321	12
980404	33122201	14	980516	12221344	19
980405	11011100	5	980517	52112313	18
980406	10022121	9	980518	10113322	13
980407	21101433	15	980519	10120210	7
980408	33101231	14	980520	10012451	14
980409	12110231	11	980521	32333133	21
980410	12121555	22	980522	41012321	14
980411	31223244	21	980523	12212033	14
980412	43121111	14	980524	32213423	20
980413	01000142	8	980525	11221223	14
980414	11011211	8	980526	40012233	15
980415	01111002	6	980527	12221223	15
980416	20332014	15	980528	01001123	8
980417	33233241	21	980529	23124643	25
980418	11232010	10	980530	52433322	24
980419	00000243	9	980531	11010011	5
980420	11223113	14	980601	21100210	7
980421	22111213	13	980602	21122213	14
980422	02013223	13	980603	00134244	18
980423	02201065	16	980604	31121121	12
980424	45545225	32	980605	10033432	16
980425	44334452	29	980606	12134434	22
980426	54324335	29	980607	33332323	22
980427	44232121	19	980608	31112221	13
980428	22011233	14	980609	01233232	16
980429	21011003	8	980610	12234334	22
980430	00042533	17	980611	30021020	8
980501	22212115	16	980612	13221010	10
980502	42112131	15	980613	01001132	8
980503	54434566	37	980614	44222212	19
980504	68746523	41	980615	01123310	11
980505	36324530	26	980616	11011301	8
980506	10202103	9	980617	11000002	4

Date	K	Sum	Date	K	Sum
980618	12020124	12	980730	22132334	20
980619	31243312	19	980731	43345554	33
980620	03211234	16	980801	11225562	24
980621	34242143	23	980802	22230143	17
980622	32120332	16	980803	21142232	17
980623	22112224	16	980804	24211232	17
980624	33234434	26	980805	00122211	9
980625	34231444	25	980806	34665344	35
980626	54443452	31	980807	45334242	27
980627	12011101	7	980808	32123320	16
980628	01001001	3	980809	00012210	6
980629	00112110	6	980810	43323254	26
980630	11012211	9	980811	20011214	11
980701	10012332	12	980812	22212224	17
980702	42222232	19	980813	32122310	14
980703	41013334	19	980814	01223340	15
980704	22222242	18	980815	01012332	12
980705	44234452	28	980816	11010200	5
980706	34434321	24	980817	02100001	4
980707	22133210	14	980818	02301122	11
980708	12010120	7	980819	20013334	16
980709	01112554	19	980820	53334443	29
980710	31021222	13	980821	31011013	10
980711	33222433	22	980822	21233453	23
980712	22222112	14	980823	42334433	26
980713	12011123	11	980824	00122234	14
980714	11002110	6	980825	43233133	22
980715	00110102	5	980826	11454566	32
980716	35444543	32	980827	76755676	49
980717	32323321	19	980828	44433553	31
980718	21023313	15	980829	42322451	23
980719	12211112	11	980830	33343333	25
980720	32000111	8	980831	32433343	25
980721	14342222	20	980901	23233344	24
980722	22123424	20	980902	10143332	17
980723	35533544	32	980903	41112302	14
980724	33354543	30	980904	21111032	11
980725	12323321	17	980905	10020212	8
980726	32111212	13	980906	21012102	9
980727	02122111	10	980907	10112132	11
980728	02003334	15	980908	33100211	11
980729	23322323	20	980909	33101212	13

Date	K	Sum	Date	K	Sum
980910	32211122	14	981022	21444553	28
980911	10202213	11	981023	22134544	25
980912	21123433	19	981024	43212344	23
980913	32222221	16	981025	33212321	17
980914	10000113	6	981026	11210112	9
980915	12121130	11	981027	21122225	17
980916	10212112	10	981028	31223233	19
980917	22111123	13	981029	41232323	20
980918	32245664	32	981030	22221011	11
980919	31233133	19	981031	21011142	12
980920	31121211	12	981101	21110021	8
980921	33323111	17	981102	32000032	10
980922	01222242	15	981103	11110223	11
980923	32333234	23	981104	21210322	13
980924	34342347	30	981105	31022424	18
980925	77745613	40	981106	33323354	26
980926	21123454	22	981107	32334354	27
980927	32333222	20	981108	56544324	33
980928	22121132	14	981109	54656564	41
980929	02121242	14	981110	32210100	9
980930	22121134	16	981111	00021013	7
981001	52343443	28	981112	10200122	8
981002	52425465	33	981113	55554566	41
981003	42212011	13	981114	53365543	34
981004	21012013	10	981115	21133344	21
981005	21120022	10	981116	22112323	16
981006	10100322	9	981117	42210101	11
981007	32334654	30	981118	32332133	20
981008	42333234	24	981119	31223231	17
981009	34332344	26	981120	12222153	18
981010	22231133	17	981121	21122412	15
981011	32103043	16	981122	22310120	11
981012	42001121	11	981123	31123334	20
981013	22231103	14	981124	24243653	29
981014	11000010	3	981125	22232554	25
981015	00112320	9	981126	22232432	20
981016	10112022	9	981127	33222411	18
981017	12233233	19	981128	23000221	10
981018	11222343	18	981129	23222052	18
981019	56345554	37	981130	04441455	27
981020	23442365	29	981201	33224211	18
981021	54333452	29	981202	10211021	8

Date	K	Sum
981203	11112421	13
981204	12223432	19
981205	33334340	23
981206	01222333	16
981207	21121424	17
981208	10001201	5
981209	22132400	14
981210	10111233	12
981211	54434543	32
981212	21122033	14
981213	11110111	7
981214	21122102	11
981215	40011013	10
981216	21220400	11
981217	00000000	0
981218	00011001	3
981219	01022324	14
981220	33233341	22
981221	00111212	8
981222	10011040	7
981223	10111222	10
981224	11011112	8
981225	22132325	20
981226	23214034	19
981227	20010000	3
981228	01001264	14
981229	22223465	26
981230	22210112	11
981231	21111110	8

Special phenomena
SSC-s 1994–1998

Date	CET (UT+1h)	Ampl. in H(nT)	Hx	Hy	Hz	Remark
940221	0900	138	-	+	-	-
940528	1354	52	+	-	+	-
941012	1727	9	+	-	0	very weak storm
941019	1432	15	+	-	-	-
941022	0849	21	+	-	-	-
941029	0025	46	+	-	-	-
941205	2105	9	+	-	-	-
950226	0359	8	+	-	+	-
950323	1038	41	+	-	-	no storm
950724	0253	36	+	-	-	-
950817	0256	15	+	-	+	-
950822	1307	39	+	-	+	-
951018	1122	36	+	-	-	-
951224	0600	37	+	-	+	-
960408	1334	24	+	-	-	no storm
960618	2319	44	+	-	-	short storm
960709	0909	15	+	+	-	unusual event
960728	1306	22	+	-	+	-
961111	1527	11	+	-	-	no storm
961113	1300	19	+	-	-	-
970110	0104	21	+	-	+	-
970111	0116	44	+	-	+	-
970209	1321	27	+	-	-	-
970227	1809	9	+	-	-	-
970416	1319	17	+	-	+	-
970501	1243	25	+	-	+	-
970515	0159	52	+	-	-	-
970619	0033	15	+	-	+	-
970622	0312	14	+	-	-	-
970803	1140	30	+	-	+	-

Date	CET	Ampl.	Hx	Hy	H _z	Remark
	(UT+1h)	in H(nT)				
970902	2359	19	+	-	-	-
971001	0059	43	+	-	-	-
971010	1611	16	+	-	-	-
971106	2248	66	+	-	+	-
971210	0525	16	+	-	+	-
971230	0208	17	+	-	+	-
980106	1413	25	+	-	-	-
980106	1413	25	+	-	-	-
980108	0828	20	+	-	-	-
980124	0529	16	+	-	-	-
980228	2300	77	+	-	-	-
980304	1156	12	+	-	+	-
980407	1745	33	+	-	+	-
980423	1822	37	+	-	+	-
980430	0927	33	+	-	-	-
980501	2155	51	+	-	+	-
980503	1742	54	+	-	+	-
980515	1449	38	+	-	+	-
980613	1924	32	+	-	-	-
980625	1636	31	+	-	+	-
980810	0044	18	+	-	+	-
980826	0649	39	+	-	-	-
980902	1029	18	+	-	-	-
980924	2345	135	+	-	-	-
981002	0725	19	+	-	-	-
981006	1625	11	+	-	+	-
981018	1951	31	+	-	-	-
981107	0816	26	+	-	+	-
981130	0505	28	+	-	+	-
981201	0328	23	+	-	-	-

Special phenomena
sfe 1994–1998

Date	Beginning	Maximum	End	Ampl.	Sign		
	GMT	GMT	GMT	nT	Hx	Hy	Hz
940304	1126	1132	1142	19	–	–	+
940825	0901	0904	0909	15	–	+	0
940829	0840	0846	0851	8	–	–	+
941201	0915	0925	0929	22	–	+	–
941203	0904	0911	0918	18	–	+	–
941221	0838	0843	0848	15	–	+	–
950118	0732	0737	0743	23	–	+	–
950129	0704	0709	0713	12	–	+	–
950401	1719	1723	1726	35	–	+	+
950418	1108	1114	1119	25	+	–	+
950513	1156	1203	1209	46	–	+	–
950917	1401	1409	1412	14	–	+	+
951205	0506	0509	0511	20	–	+	–
970421	1359	1403	1407	22	–	+	–
970907	1452	1458	1504	15	–	+	+
970908	1403	1411	1419	41	–	+	+
971106	1151	1158	1205	54	–	–	+
971107	1610	1617	1625	17	–	–	+
971127	1312	1318	1322	22	–	+	–
980116	2001	2006	2018	8	–	+	–
980324	1058	1110	1119	12	–	+	–
980524	1438	1441	1446	10	–	+	–
980602	1109	1117	1124	16	–	+	–
980818	0817	0827	0850	28	–	+	–
981010	1102	1108	1115	8	–	+	–

Annual mean values of geomagnetic elements

Year	D	H nT	Z nT	I	X nT	Y nT	F nT
1961	-0°23.6'	20816	42077	63°40.7'	20816	-143	46944
1962	-0°19.6'	20827	42093	63°40.5'	20827	-119	46964
1963	-0°14.3'	20839	42116	63°40.4'	20839	-87	46990
1964	-0°10.5'	20845	42126	63°40.4'	20845	-64	47001
1965	-0°08.1'	20877	42137	63°38.6'	20877	-49	47025
1966	-0°06.8'	20888	42156	63°38.5'	20888	-41	47047
1967	-0°06.0'	20903	42179	63°38.3'	20903	-36	47074
1968	-0°03.0'	20921	42196	63°37.7'	20921	-18	47098
1969	0°00.2'	20942	42214	63°36.9'	20942	1	47123
1970	0°02.8'	20964	42235	63°36.1'	20964	17	47152
1971	0°04.3'	20992	42262	63°35.2'	20992	26	47188
1972	0°06.5'	21011	42286	63°34.7'	21011	40	47218
1973	0°10.2'	21028	42317	63°34.6'	21028	62	47254
1974	0°13.6'	21046	42350	63°34.5'	21046	83	47291
1975	0°18.5'	21072	42380	63°33.8'	21072	113	47330
1976	0°23.8'	21084	42413	63°34.0'	21084	146	47365
1977	0°28.8'	21106	42443*	63°33.6'*	21105	177	47401*
1978	0°34.6'	21108	42473*	63°34.4'*	21107	212	47429*
1979	0°41.4'	21113*	42496*	63°34.8'*	21112*	254	47452*
1980	0°46.3'	21107*	42512*	63°35.8'*	21105*	284	47463*
1981	0°52.4'	21097*	42530*	63°37.0'*	21095*	322	47475*
1982	0°57.5'	21078	42549	63°38.8'	21075	353	47484
1983	1°02.7'	21078	42581	63°39.8'	21074	384	47512
1984	1°08.1'	21075	42601	63°40.7'	21071	417	47529
1985	1°12.7'	21073	42625	63°41.7'	21068	446	47550
1986	1°17.8'	21065	42660	63°43.1'	21060	477	47577
1987	1°21.9'	21067	42689	63°44.0'	21061	502	47604
1988	1°26.6'	21052	42723	63°46.0'	21045	530	47628
1989	1°31.3'	21041	42761	63°48.0'	21034	559	47657
1990	1°35.5'	21044	42782	63°48.3'	21036	584	47678
1991	1°36.3'	21027	42816	63°50.4'	21019	589	47701
1992	1°38.1'	21037	42834	63°50.4'	21028	600	47721
1993	1°43.2'	21039	42853	63°51.0'	21030	631	47739
1994	1°48.4'	21037	42877	63°52.0'	21026	663	47760
1995	1°56.6'	21052	42898	63°51.7'	21039	713	47785
1996	2°02.0'	21062	42920	63°51.7'	21048	747	47809
1997	2°07.5'	21060	42955	63°52.9'	21045	781	47839
1998	2°13.7'	21053	42997	63°54.7'	21037	819	47875