

## 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

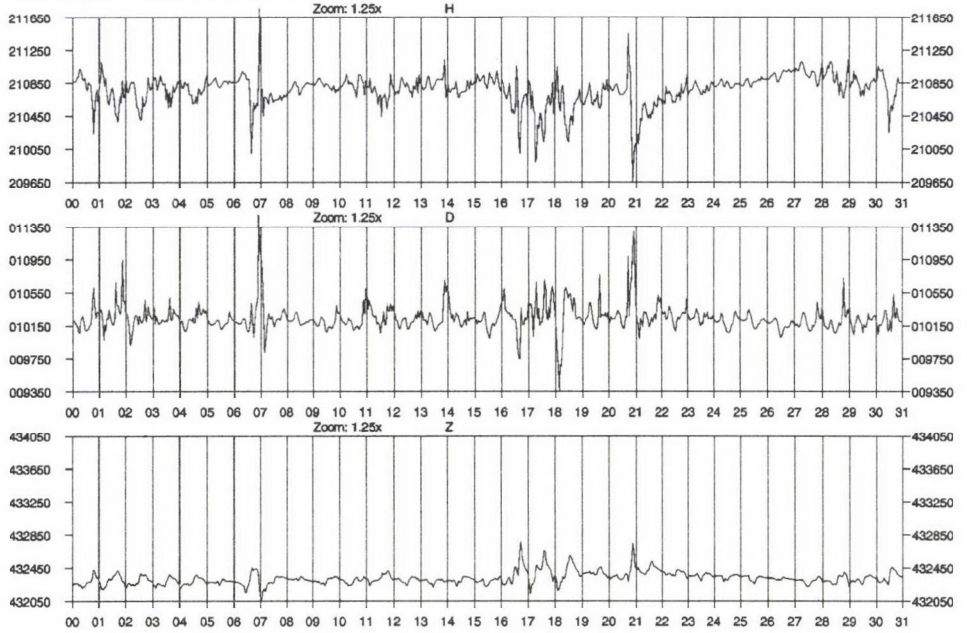
Table contains yearly means of the geomagnetic elements 1961 to 1993 in nT. These values are the results of a reevaluation of previously published data, including corrections eliminating disturbances caused by construction works in the observatory. Corrected values are noted by asterisk.

Times in this section are given in UT!

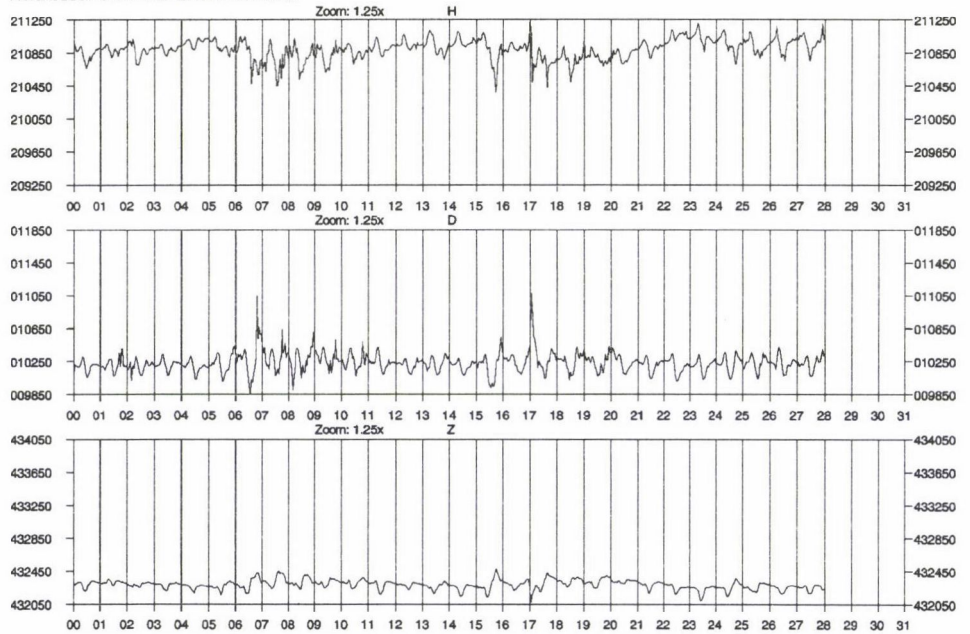
See CD (data visualization: program Seenck.exe, menu item Magnetics: path: \Nckobs\Magn\).

*Hourly mean values of H, D, Z*  
*2005-2006*

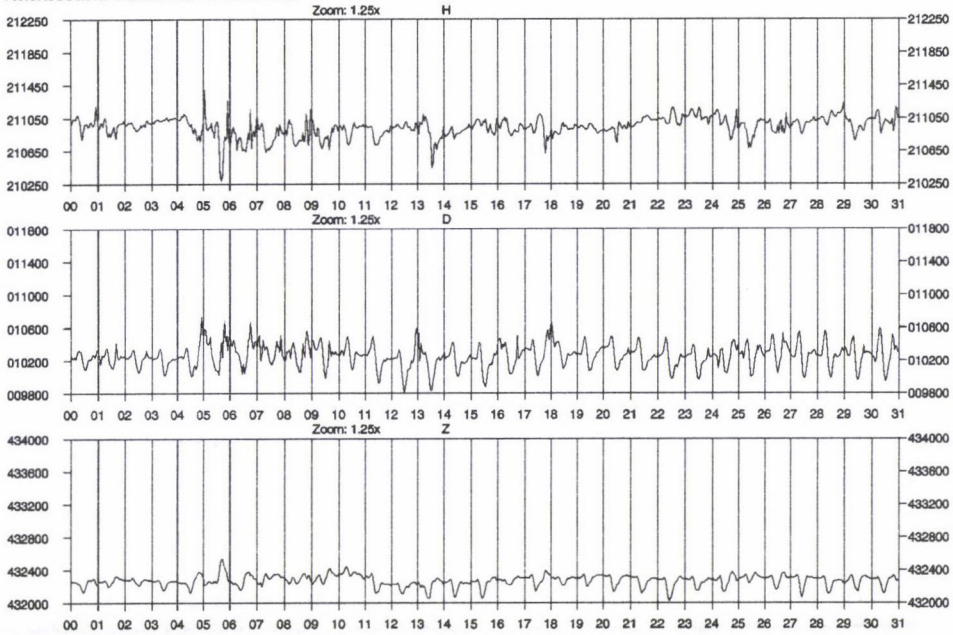
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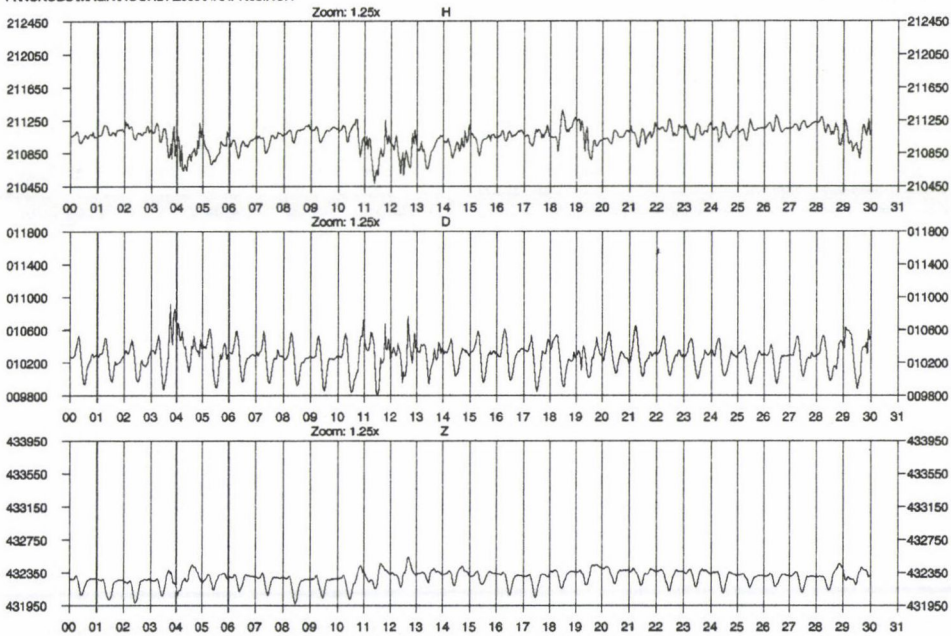
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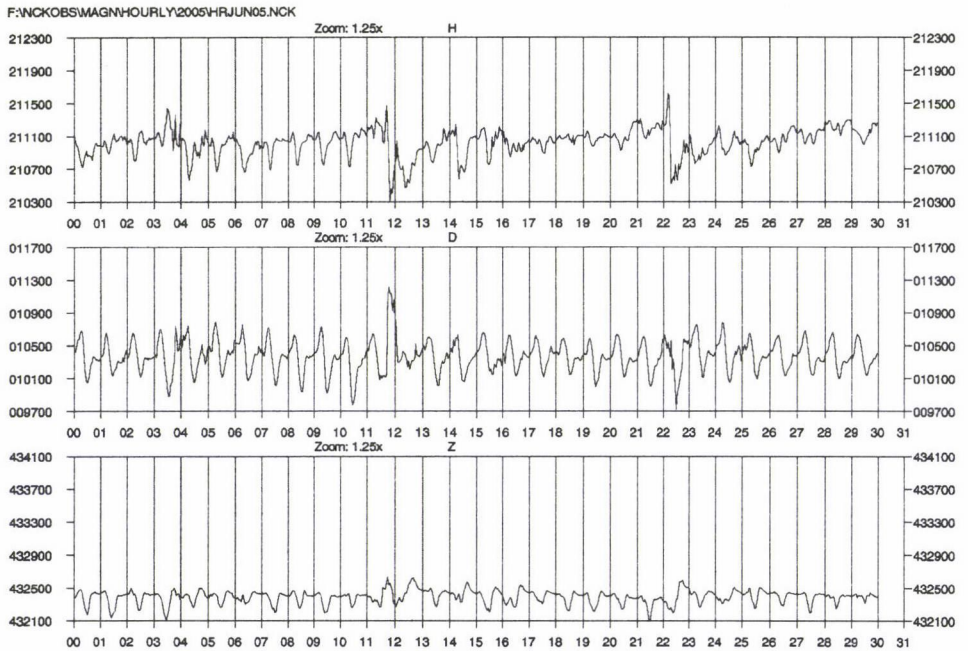
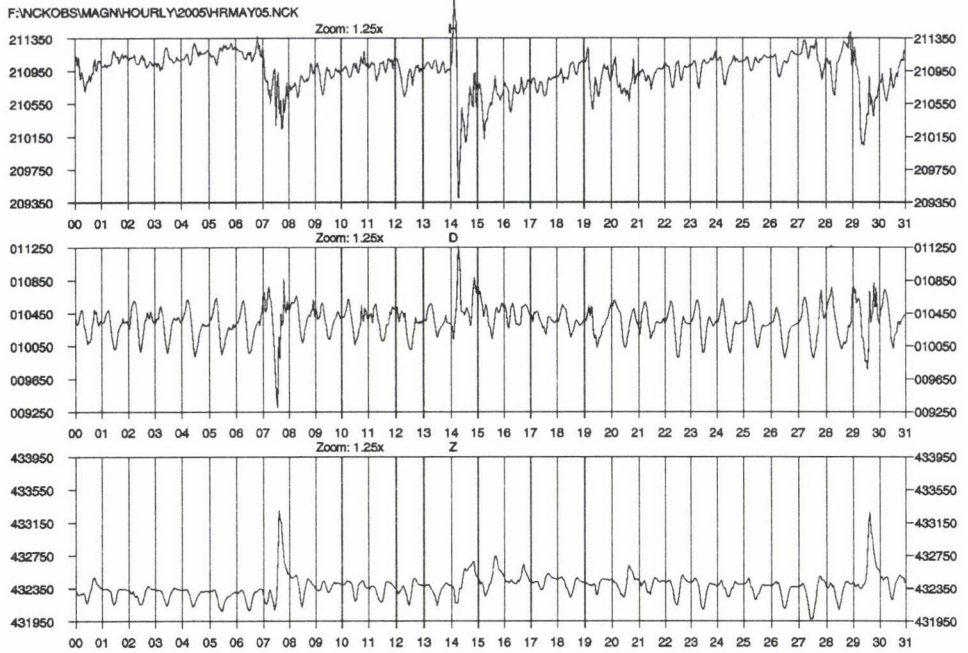


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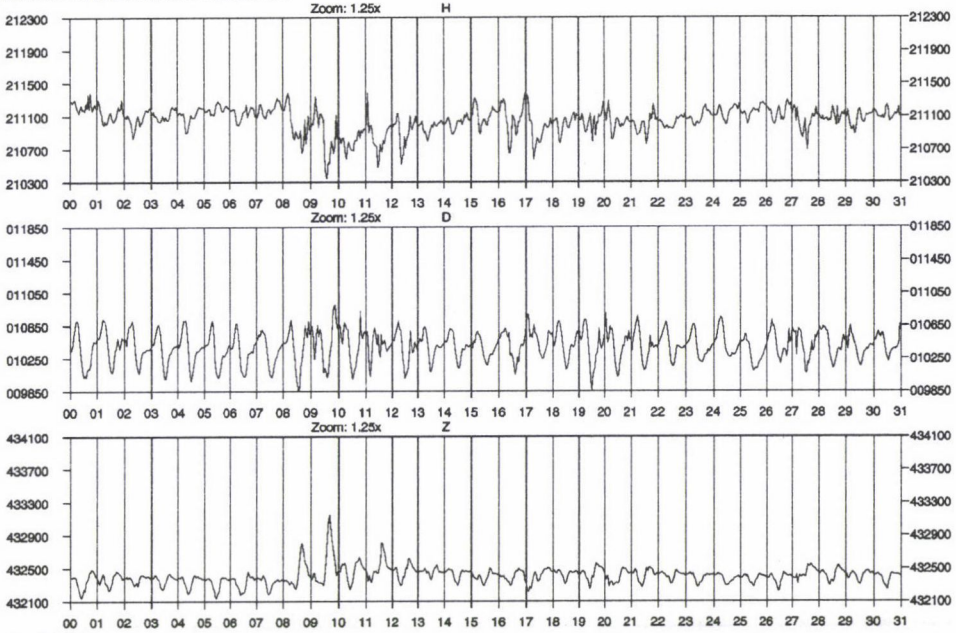
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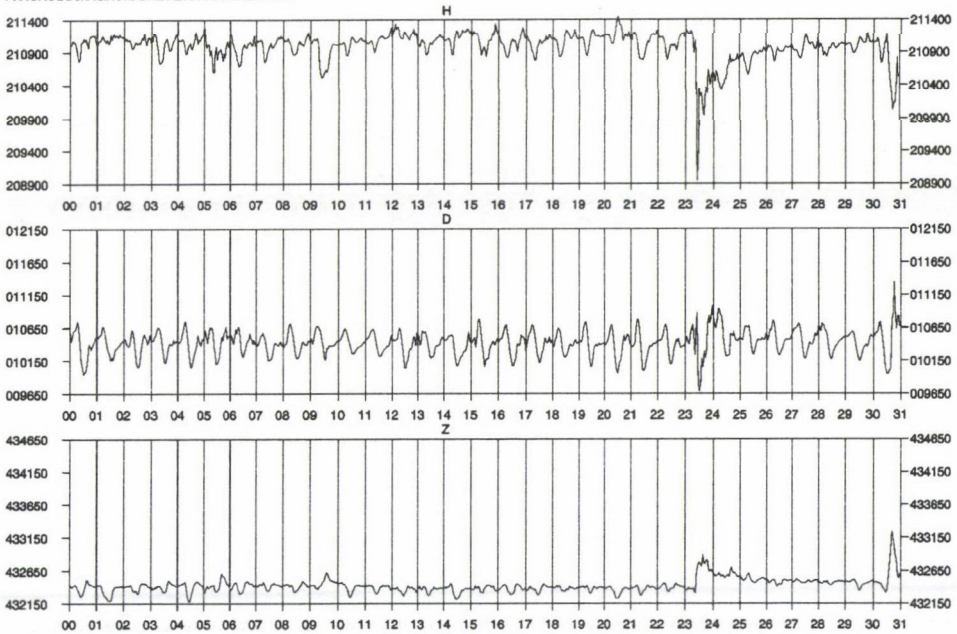




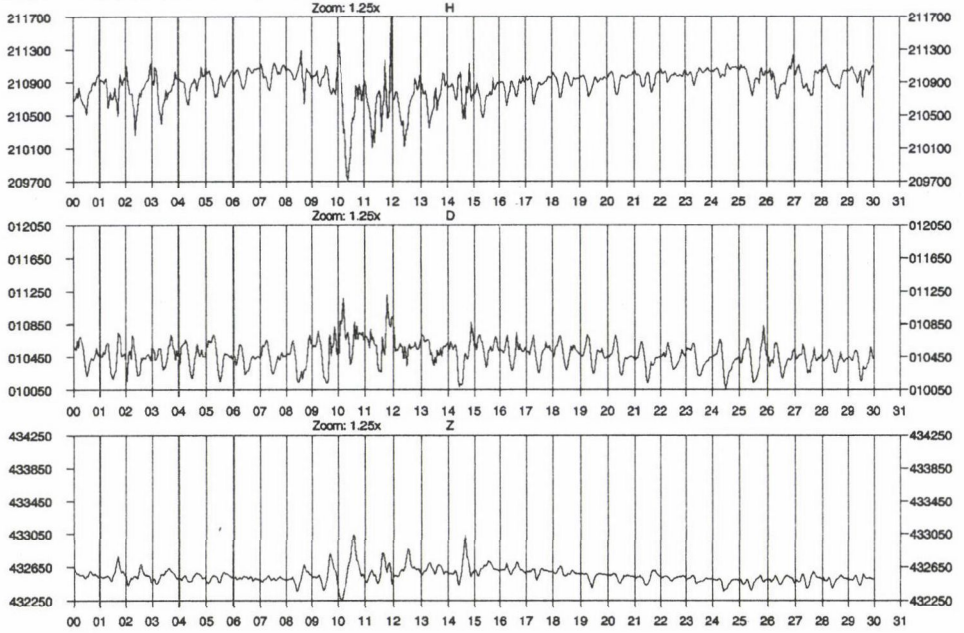
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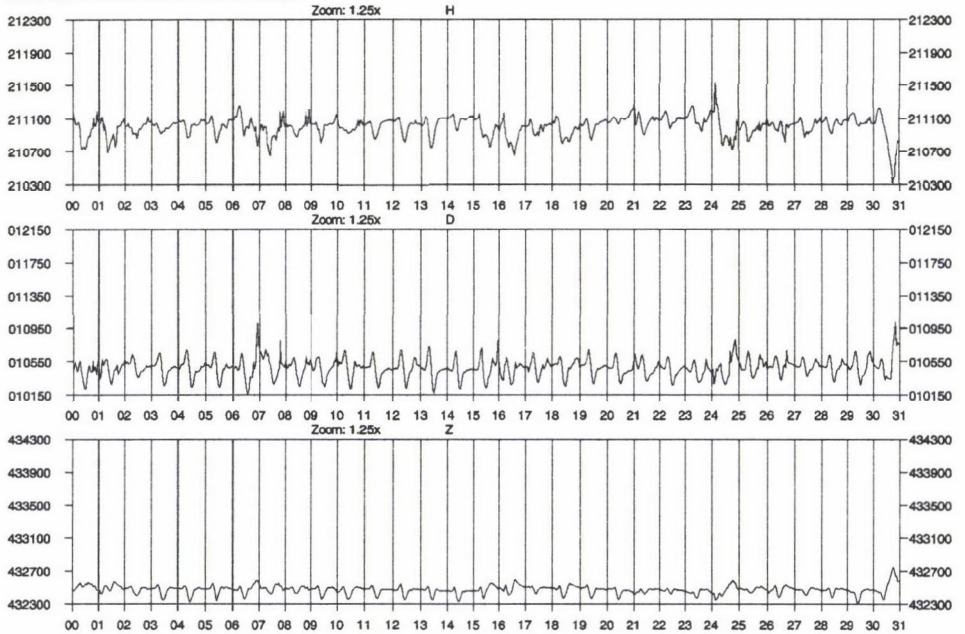
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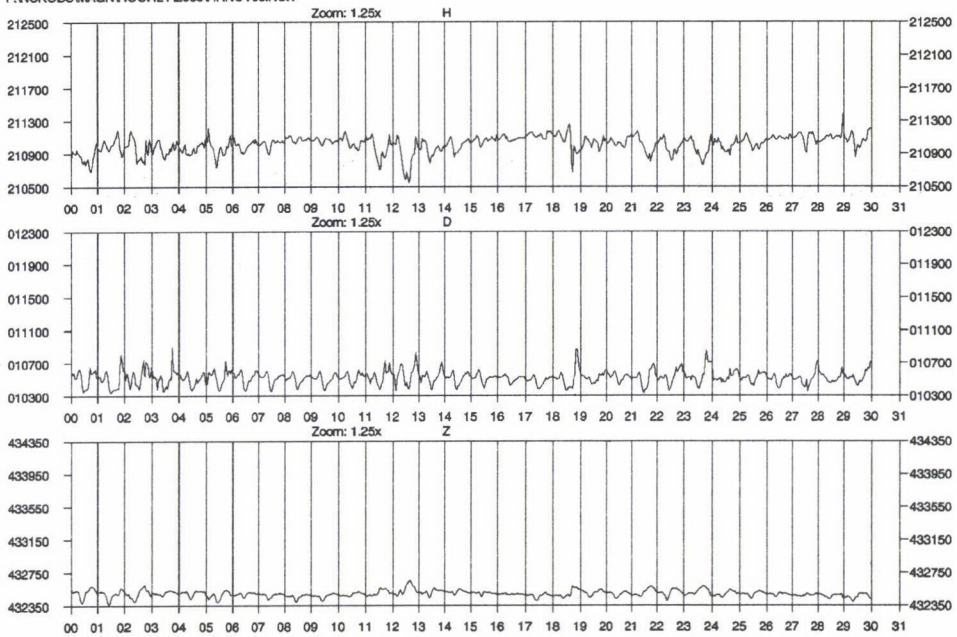
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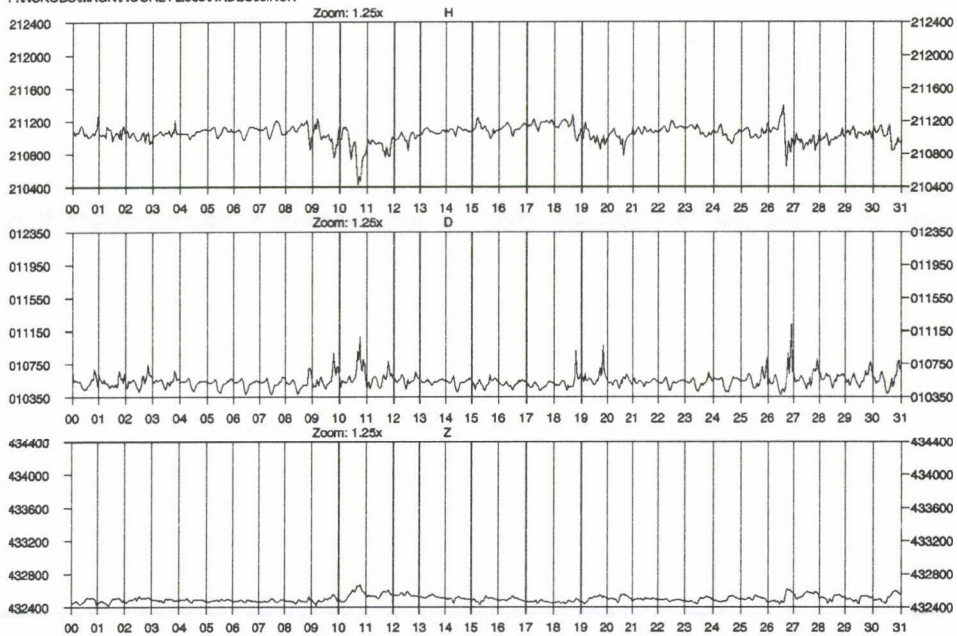
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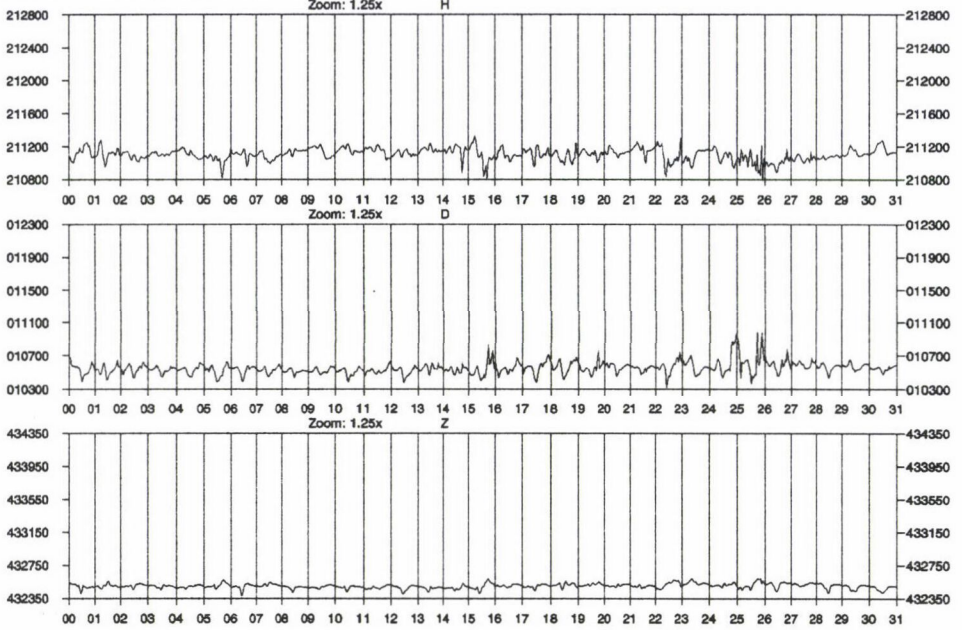


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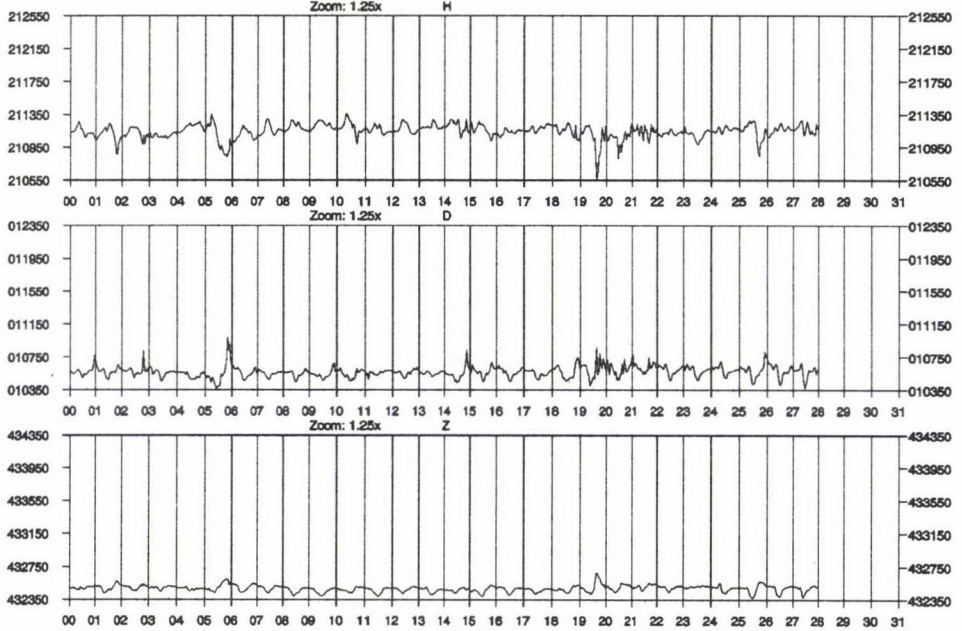




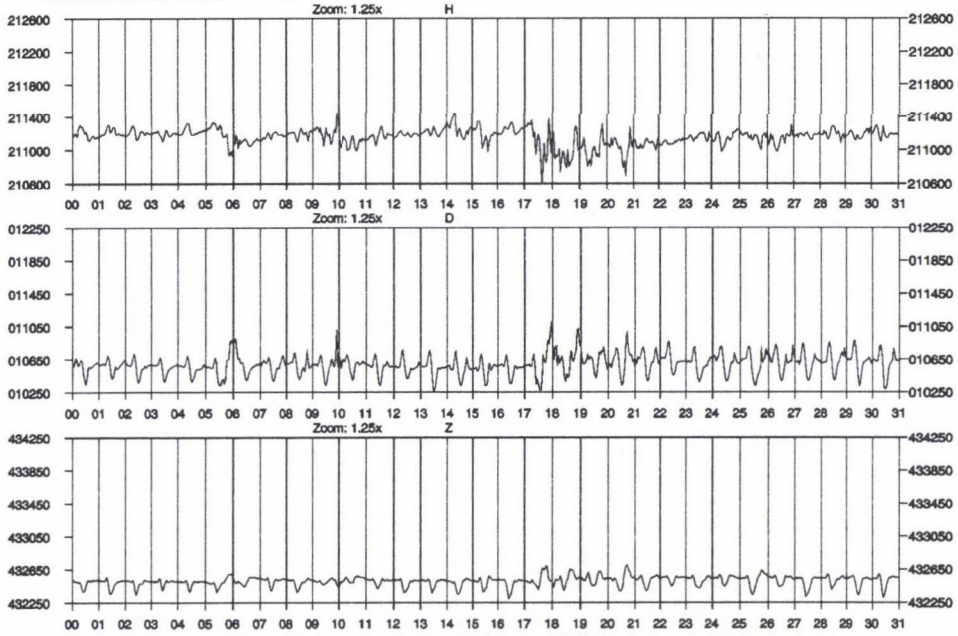
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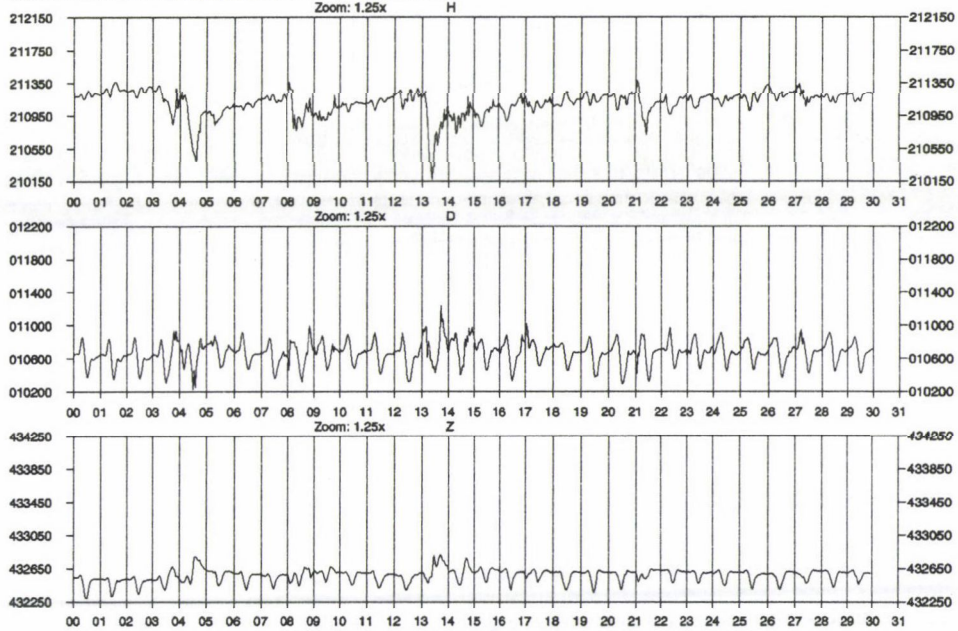
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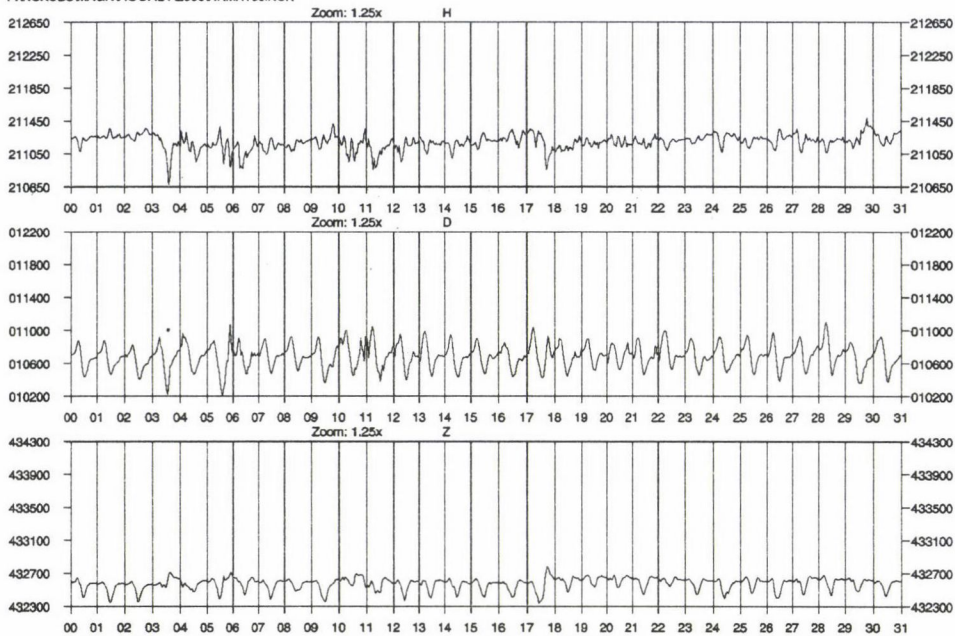
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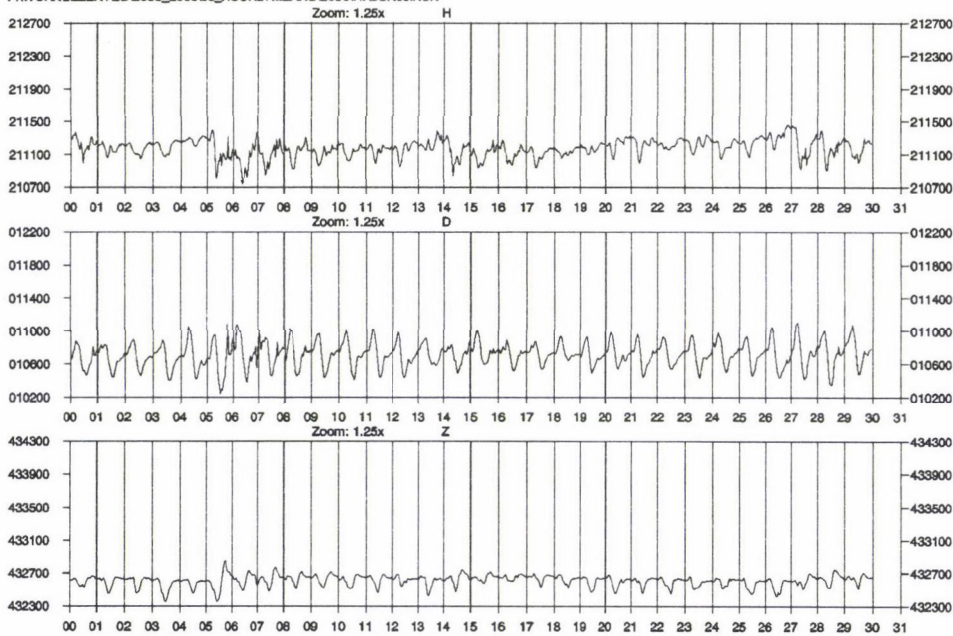
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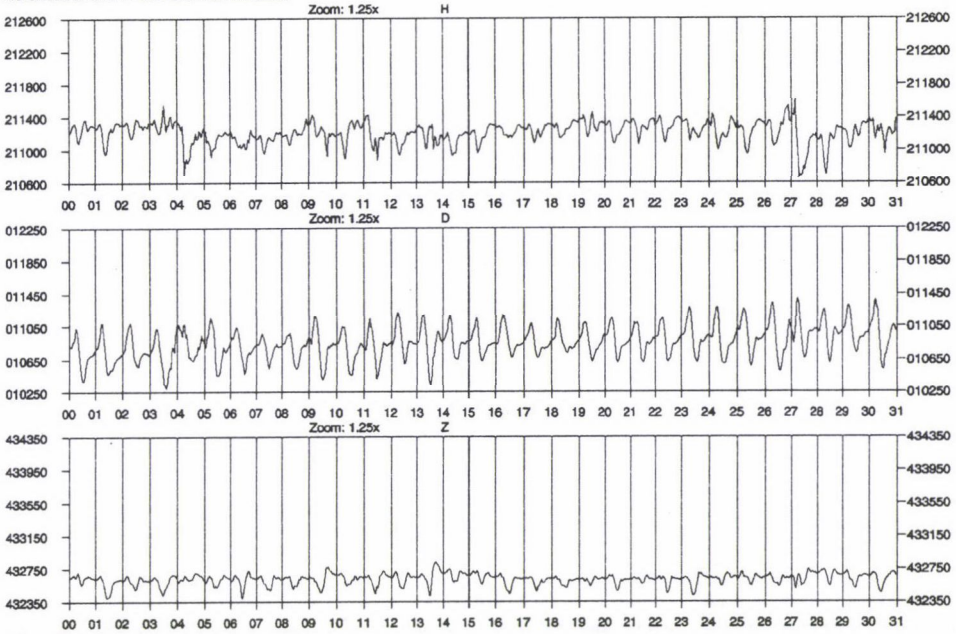


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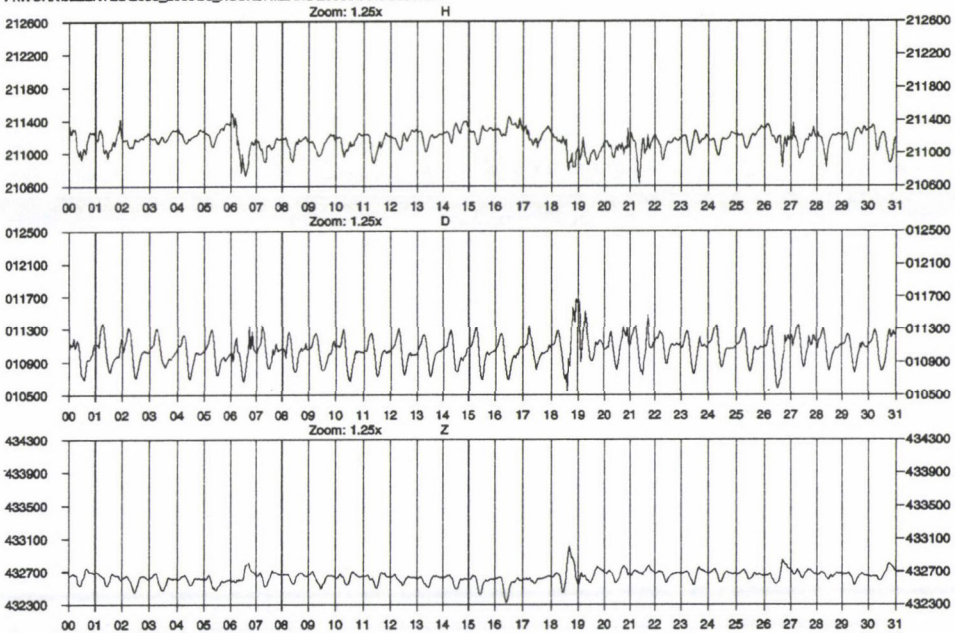




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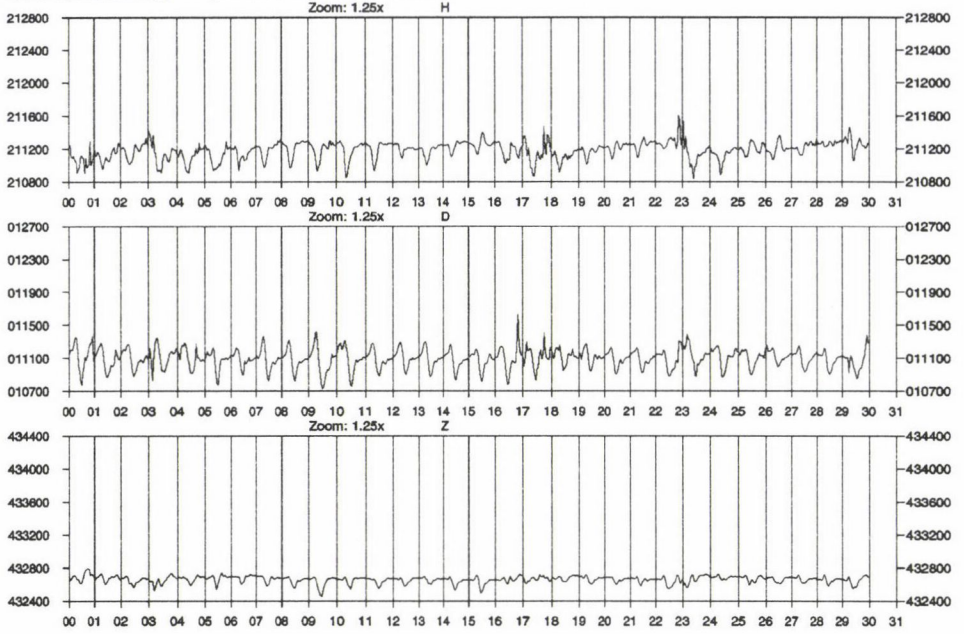


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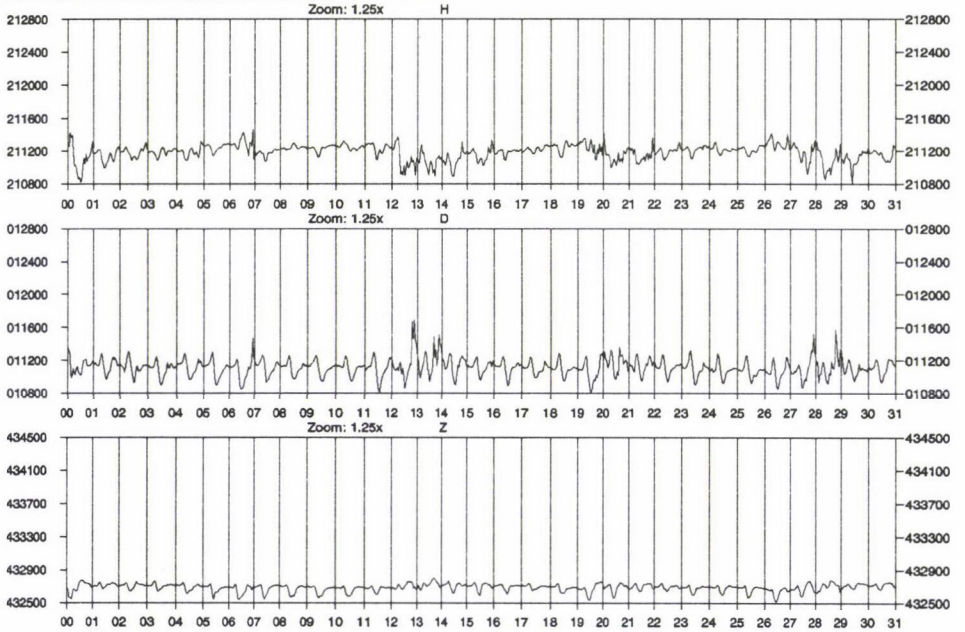


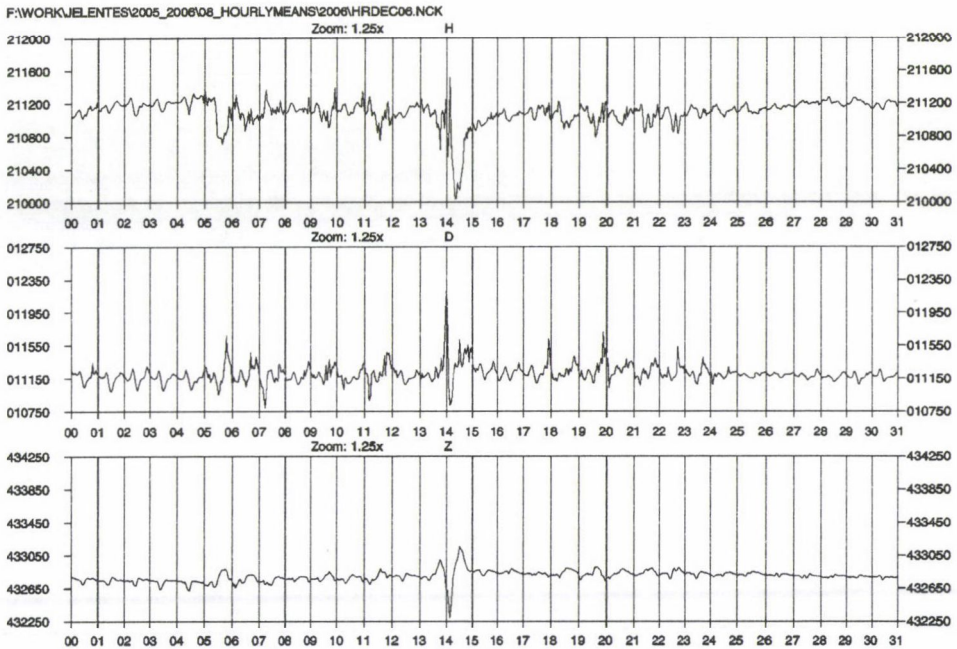
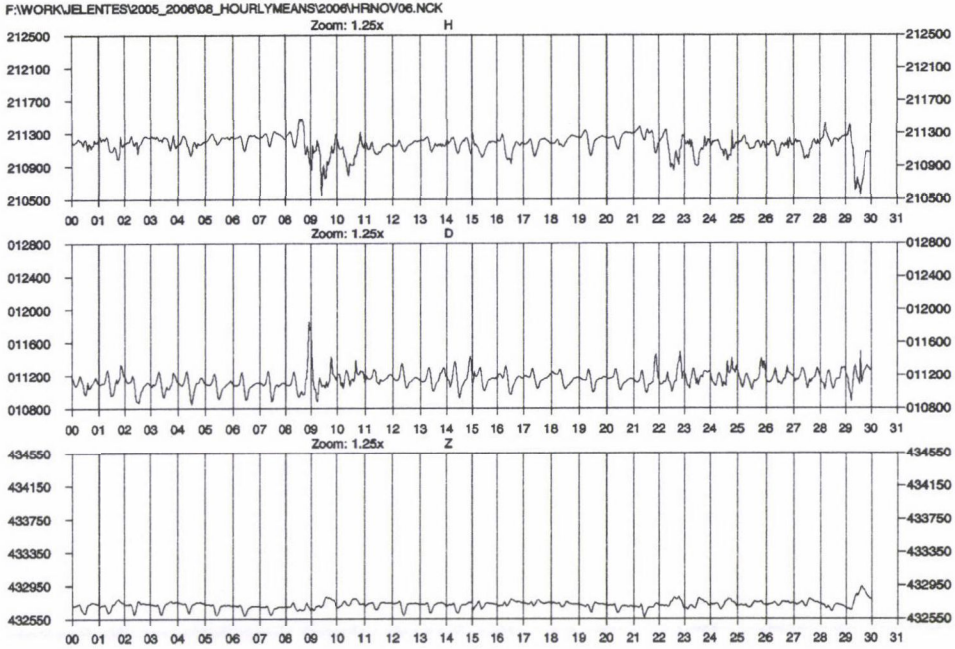


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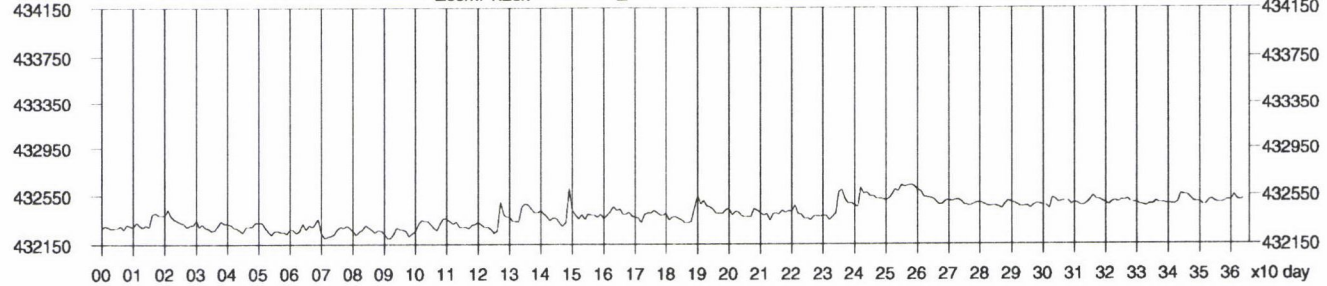
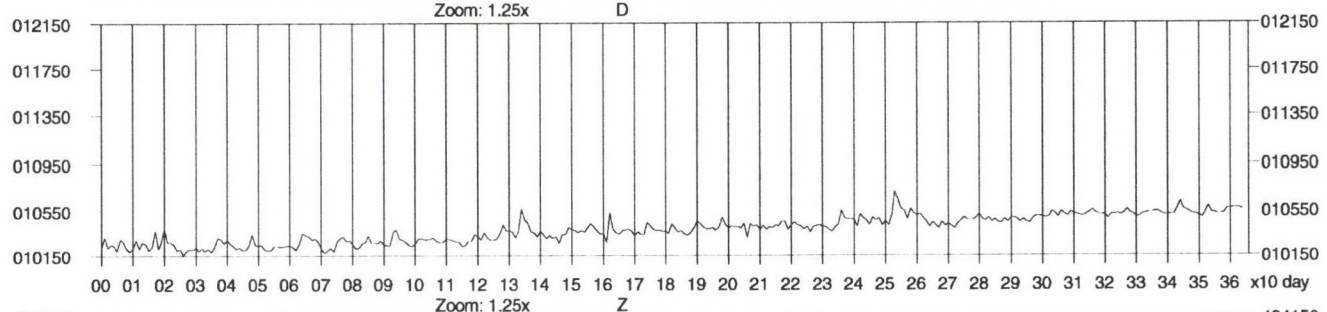
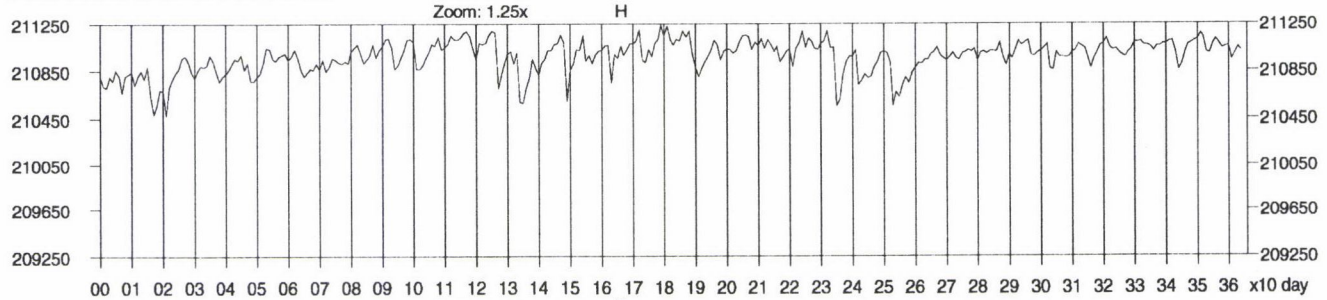




*Daily mean values of H, D, Z*  
*2005-2006*

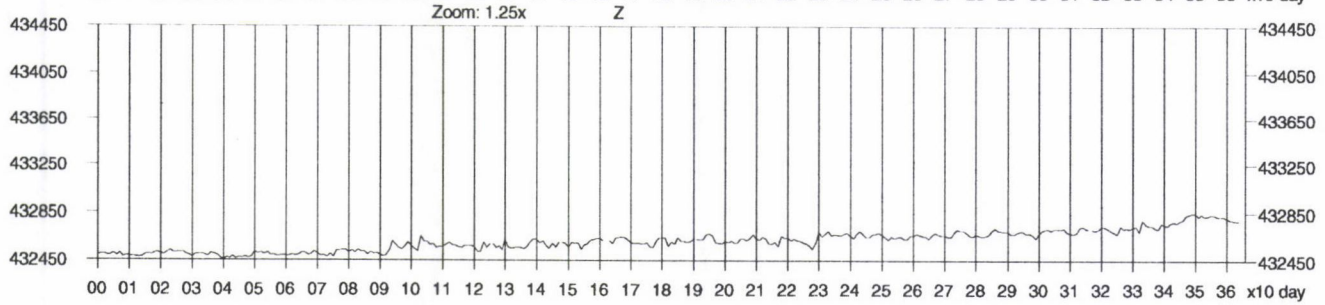
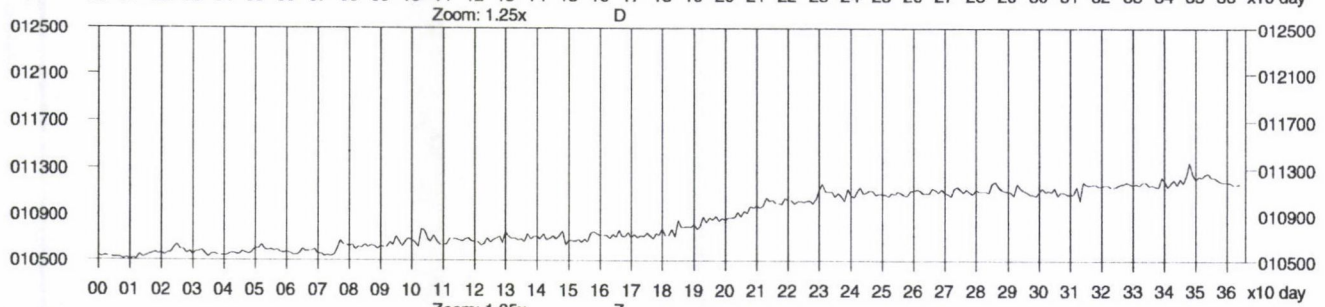
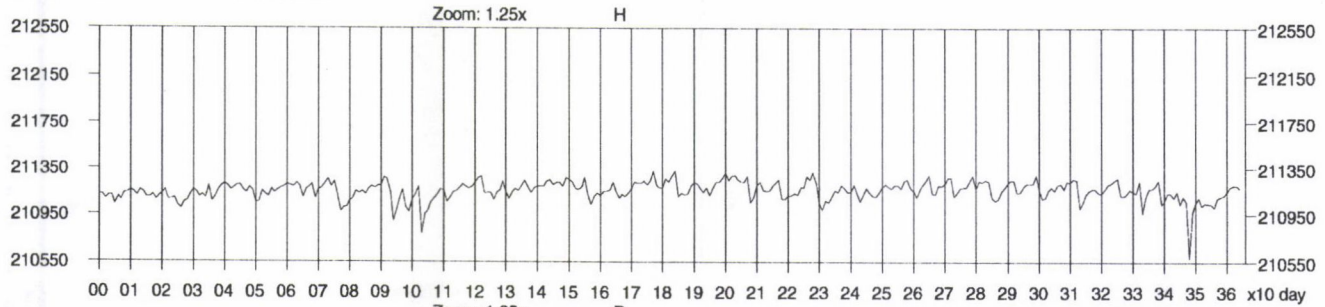


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Daily mean values 2005

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Daily mean values 2006

DAILY MEAN VALUES 2006



*Hourly mean values of H, D, Z*  
*2005-2006*



Date	K	Sum	Date	K	Sum
050101	13323455	26	050211	22232144	20
050102	55533646	37	050212	22000120	7
050103	34234542	27	050213	11100130	7
050104	53236643	32	050214	12111123	12
050105	32334434	26	050215	11110012	7
050106	11000141	8	050216	31124444	23
050107	00026658	27	050217	21021114	12
050108	76333222	28	050218	64433522	29
050109	10040010	6	050219	21233433	21
050110	12021333	15	050220	43311444	24
050111	22321535	23	050221	31011002	8
050112	35345554	34	050222	11001222	9
050113	32222444	23	050223	20211021	9
050114	21221266	22	050224	00223122	12
050115	32333531	23	050225	01332432	18
050116	32223334	22	050226	31221331	16
050117	43356655	37	050227	03323121	15
050118	65656566	45	050228	12233214	18
050119	55644513	33	050301	21231124	16
050120	12333643	25	050302	43332422	23
050121	31221787	31	050303	11101231	10
050122	55424353	31	050304	10011010	4
050123	32333534	26	050305	11212245	18
050124	31123422	18	050306	52344556	34
050125	10011031	7	050307	33443664	33
050126	10010020	4	050308	45323455	31
050127	00110022	6	050309	34333455	30
050128	21110143	13	050310	43333432	25
050129	42344465	32	050311	22121002	10
050130	34333322	23	050312	10100003	5
050131	52226541	27	050313	00021134	11
050201	31010201	8	050314	54325223	26
050202	12121450	16	050315	21111003	9
050203	14310211	13	050316	00023223	12
050204	00011221	7	050317	23222522	20
050205	00111010	4	050318	01011254	14
050206	02221043	14	050319	42121002	12
050207	33335465	32	050320	01100000	2
050208	35333555	32	050321	00122212	10
050209	44444444	32	050322	00011112	6
050210	43335453	30	050323	00002131	7

Date	K	Sum	Date	K	Sum
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050325	23323435	25	050505	01011300	6
050326	13333332	21	050506	10023322	13
050327	22234542	24	050507	21103145	17
050328	11110022	8	050508	55457765	44
050329	00000113	5	050509	32221234	19
050330	22211311	13	050510	23222123	17
050331	13201443	18	050511	10122354	18
050401	11211021	9	050512	24312344	23
050402	10011200	5	050513	53323532	26
050403	32000223	12	050514	21121120	10
050404	11233566	27	050515	67754567	47
050405	65344445	35	050516	55445422	31
050406	42122424	21	050517	24322523	23
050407	31223100	12	050518	32222211	15
050408	30001020	6	050519	12322132	16
050409	10000102	4	050520	34554433	31
050410	10001000	2	050521	23333352	24
050411	01001345	14	050522	42222211	16
050412	44334365	32	050523	20102211	9
050413	33444645	33	050524	10001013	6
050414	23223343	22	050525	12010200	6
050415	22213344	21	050526	00000000	0
050416	31101122	11	050527	00012000	3
050417	12101011	7	050528	02223544	22
050418	21211213	13	050529	32232336	24
050419	21312112	13	050530	53556666	42
050420	34453341	27	050531	34344333	27
050421	10101021	6	050601	42122221	16
050422	21103132	13	050602	13111224	15
050423	11111331	12	050603	22121221	13
050424	22221232	16	050604	23124554	26
050425	22222112	14	050605	43332443	26
050426	10000021	4	050606	32201114	14
050427	00011000	2	050607	33213222	18
050428	00001120	4	050608	21101000	5
050429	11222235	18	050609	01011121	7
050430	43334435	29	050610	00000100	1
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050502	32113222	16	050612	12445666	34
050503	32123231	17	050613	54334331	26

Date	K	Sum	Date	K	Sum
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050617	43123232	20	050728	35234334	27
050618	22212221	14	050729	23334534	27
050619	21012302	11	050730	43312022	17
050620	10020200	5	050731	12223114	16
050621	00100001	2	050801	41353433	26
050622	22132113	15	050802	22243330	19
050623	44655552	36	050803	13212334	19
050624	43232002	16	050804	22222123	16
050625	33222433	22	050805	20011333	13
050626	23122221	15	050806	44454454	34
050627	10001132	8	050807	43342234	25
050628	22111112	11	050808	21003212	11
050629	11211101	8	050809	32111233	16
050630	22212322	16	050810	21434211	18
050701	32223544	25	050811	10002120	6
050702	42232344	24	050812	01000124	8
050703	32222212	16	050813	43243255	28
050704	11021103	9	050814	22221122	14
050705	00222101	8	050815	00022324	13
050706	00101112	6	050816	23234334	24
050707	02212313	14	050817	43223334	24
050708	11111211	9	050818	22332433	22
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050712	55355321	29	050822	23112213	15
050713	23555534	32	050823	21122321	14
050714	13222201	13	050824	34686554	41
050715	10002222	9	050825	43224543	27
050716	33212323	19	050826	32200112	11
050717	33353435	29	050827	31010001	6
050718	44323124	23	050828	21010022	8
050719	32111223	15	050829	43220100	12
050720	32244452	26	050830	00000042	6
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050722	33123442	22	050901	44224123	22
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Date	K	Sum	Date	K	Sum
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050907	32120210	11	051018	02112330	12
050908	21101222	11	051019	13112222	14
050909	02145543	24	051020	20110001	5
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050911	66657555	45	051022	42111010	10
050912	44665667	44	051023	10101100	4
050913	64355054	32	051024	11001232	10
050914	33335442	27	051025	44142434	26
050915	31456654	34	051026	21202552	19
050916	32234142	21	051027	30022530	15
050917	10123333	16	051028	10022232	12
050918	22232121	15	051029	00110231	8
050919	31112221	13	051030	12020132	11
050920	01121020	7	051031	12213564	24
050921	20011001	5	051101	32122524	21
050922	12112221	12	051102	11121154	16
050923	32312022	15	051103	34343454	30
050924	10001101	4	051104	33332342	23
050925	10132102	10	051105	23322323	20
050926	42223244	23	051106	42223534	25
050927	43222224	21	051107	31121222	14
050928	22323523	22	051108	10110021	6
050929	32121321	15	051109	20010101	5
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051001	33321244	22	051111	12010321	10
051002	43312413	21	051112	23123433	21
051003	32220022	13	051113	33123324	21
051004	20020020	6	051114	33122022	15
051005	10010021	5	051115	10111001	5
051006	10001000	2	051116	00000212	5
051007	20022235	16	051117	00200000	2
051008	44443254	30	051118	00001321	7
051009	32122043	17	051119	11001554	17
051010	21331113	15	051120	13321213	16
051011	41012223	15	051121	12010011	6
051012	01000001	2	051122	20212323	15
051013	11011031	8	051123	22212222	15
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Date	K	Sum
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051126	31020201	9
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051128	00113233	13
051129	10100225	11
051130	32233124	20
051201	42222344	23
051202	33333244	25
051203	42123443	23
051204	10022232	12
051205	10010010	3
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051211	32133554	26
051212	33222343	22
051213	12113031	12
051214	00100011	3
051215	10010000	2
051216	13121331	15
051217	00011200	4
051218	10011002	5
051219	11112354	18
051220	42223353	24
051221	11223423	18
051222	31010011	7
051223	10000000	1
051224	00022222	10
051225	22122201	12
051226	00011234	11
051227	31012556	23
051228	32233345	25
051229	43322323	22
051230	33220323	18
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060103	20000320	7	060213	00000211	4
060104	01010020	4	060214	00000000	0
060105	00011012	5	060215	01221144	15
060106	32112222	15	060216	32211122	14
060107	21111301	10	060217	12111002	8
060108	00111101	5	060218	00001011	3
060109	00000000	0	060219	21111132	12
060110	00000000	0	060220	22235544	27
060111	00021211	7	060221	33244444	28
060112	20100010	4	060222	43332422	23
060113	10011212	8	060223	11111012	8
060114	00012131	8	060224	31121000	8
060115	32011332	15	060225	20100000	3
060116	02233554	24	060226	12012223	13
060117	23222121	15	060227	10001013	6
060118	32341323	21	060228	00021123	9
060119	10121224	13	060301	42123100	13
060120	21012442	16	060302	00000011	2
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060122	00123311	11	060304	11010002	5
060123	23344334	26	060305	00000001	1
060124	32221101	12	060306	00012244	13
060125	10101244	13	060307	32311031	14
060126	44133646	31	060308	10002032	8
060127	32123233	19	060309	11000132	8
060128	21011033	11	060310	12333325	22
060129	10100101	4	060311	32321212	16
060130	00000000	0	060312	00221230	10
060131	01001100	3	060313	00010010	2
060201	00001002	3	060314	00021013	7
060202	10010122	7	060315	22333441	22
060203	00020141	8	060316	11122412	14
060204	33111100	10	060317	00000011	2
060205	10111021	7	060318	01344656	29
060206	23114344	22	060319	65545354	37
060207	21000022	7	060320	44333355	30
060208	20010000	3	060321	23123544	24
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Date	K	Sum	Date	K	Sum
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060325	22100130	9	060505	43121101	13
060326	10011343	13	060506	12013554	21
060327	33101303	14	060507	33543332	26
060328	02111122	10	060508	22111010	8
060329	01011033	9	060509	00011102	5
060330	10010033	8	060510	00001133	8
060331	10111031	8	060511	33344344	28
060401	00000100	1	060512	33324223	22
060402	00002001	3	060513	42123233	20
060403	00000102	3	060514	32211222	15
060404	00221245	16	060515	11001112	7
060405	43336342	28	060516	00000000	0
060406	12222122	14	060517	12012202	10
060407	10100000	2	060518	21342542	23
060408	20021022	9	060519	22222233	18
060409	65433345	33	060520	21111221	11
060410	33322332	21	060521	31020332	14
060411	11001102	6	060522	32122324	19
060412	00010110	3	060523	31101000	6
060413	12133333	19	060524	01022200	7
060414	45444643	34	060525	03100023	9
060415	33344554	31	060526	01001100	3
060416	32222332	19	060527	00000001	1
060417	20101123	10	060528	11122111	10
060418	42110212	13	060529	10001002	4
060419	20001011	5	060530	10015332	15
060420	01033210	10	060531	31112112	12
060421	00022422	12	060601	23232332	20
060422	43333321	22	060602	23321321	17
060423	12211002	9	060603	21203211	12
060424	32121002	11	060604	11012000	5
060425	31011110	8	060605	11001211	7
060426	10010110	4	060606	22454463	30
060427	10111221	9	060607	43334445	30
060428	31432111	16	060608	33433433	26
060429	10010002	4	060609	42232332	21
060430	00000000	0	060610	21113332	16
060501	01110000	3	060611	22012112	11
060502	10101012	6	060612	00012212	8
060503	11100112	7	060613	10001001	3

Date	K	Sum	Date	K	Sum
060614	20121334	16	060725	33202223	17
060615	33433333	25	060726	32022201	12
060616	22121242	16	060727	10013334	15
060617	23323330	19	060728	55432311	24
060618	01221212	11	060729	20001121	7
060619	21000000	3	060730	22100102	8
060620	20011110	6	060731	23345324	26
060621	00000101	2	060801	34334412	24
060622	11111120	8	060802	22233214	19
060623	01000100	2	060803	32011012	10
060624	00012221	8	060804	00000011	2
060625	20210101	7	060805	12000010	4
060626	00010000	1	060806	00111200	5
060627	10112323	13	060807	44454543	33
060628	33235233	24	060808	22323331	19
060629	32233333	22	060809	23133013	16
060630	12223321	16	060810	10001013	6
060701	12001010	5	060811	12222211	13
060702	00100201	4	060812	13112221	13
060703	02010222	9	060813	00000010	1
060704	12225444	24	060814	11000011	4
060705	44533333	28	060815	00020302	7
060706	43222222	19	060816	21012112	10
060707	11223332	17	060817	00322223	14
060708	00100001	2	060818	34332333	24
060709	01000014	6	060819	21036466	28
060710	32123432	20	060820	66212232	24
060711	01023333	15	060821	23112335	20
060712	33255222	24	060822	41544542	29
060713	23221012	13	060823	22311001	10
060714	22134433	22	060824	20002312	10
060715	12113101	10	060825	00000000	0
060716	01001101	4	060826	10001021	5
060717	10111121	8	060827	21133543	22
060718	00010110	3	060828	43222333	22
060719	10000001	2	060829	31232331	18
060720	12102111	9	060830	10112332	13
060721	11000010	3	060831	11312344	19
060722	12121103	11	060901	30333455	26
060723	21110112	9	060902	32122143	18
060724	22221313	16	060903	22112213	14

Date	K	Sum	Date	K	Sum
060904	45432333	27	061015	22232343	21
060905	22132432	19	061016	10001133	9
060906	11012140	10	061017	00001101	3
060907	11313321	15	061018	11000020	4
060908	10112212	10	061019	00020000	2
060909	20100000	3	061020	11323433	20
060910	10101122	8	061021	43233653	29
060911	32221101	12	061022	23223344	23
060912	20121111	9	061023	10110103	7
060913	12221000	8	061024	00121032	9
060914	12111101	8	061025	11010100	4
060915	10100000	2	061026	01011000	3
060916	01021202	8	061027	11000133	9
060917	11134253	20	061028	11233445	23
060918	43333454	29	061029	43333355	29
060919	22333322	20	061030	42241311	18
060920	22100110	7	061031	30001223	11
060921	00011011	4	061101	11103222	12
060922	00010021	4	061102	30002343	15
060923	10001235	12	061103	21033120	12
060924	55344233	29	061104	32120332	16
060925	30143113	16	061105	00112210	7
060926	12122233	16	061106	00100002	3
060927	31011200	8	061107	00000000	0
060928	20111113	10	061108	10000110	3
060929	30002230	10	061109	10001346	15
060930	13442324	23	061110	54464353	34
061001	55334423	29	061111	43333544	29
061002	10212232	13	061112	32222000	11
061003	21224313	18	061113	10000000	1
061004	01000320	6	061114	01011223	10
061005	10011022	7	061115	32010033	12
061006	00120001	4	061116	42110100	9
061007	00002345	14	061117	22003100	8
061008	31022122	13	061118	00000000	0
061009	01010022	6	061119	21130001	8
061010	21110011	7	061120	00001000	1
061011	10011100	4	061121	20001000	3
061012	20011213	10	061122	00032042	11
061013	22344466	31	061123	11333444	23
061014	43242554	29	061124	33433332	24

Date	K	Sum
061125	32322453	24
061126	33223144	22
061127	21231331	16
061128	11122313	14
061129	23110112	11
061130	33446421	27
061201	00011242	10
061202	00001010	2
061203	12000121	7
061204	00000011	2
061205	00041112	9
061206	43344454	31
061207	54444534	33
061208	35443353	30
061209	21100434	15
061210	23234535	27
061211	33321035	20
061212	35325554	32
061213	33110013	12
061214	32225567	32
061215	87446554	43
061216	32121343	19
061217	20100130	7
061218	21021335	17
061219	23133323	20
061220	43324455	30
061221	53333433	27
061222	33433343	26
061223	22323542	23
061224	21123442	19
061225	32212311	15
061226	10202210	8
061227	00000000	0
061228	00000031	4
061229	10000110	3
061230	10020120	6
061231	10010101	4





*Special phenomena*

SSC-s 2005–2006

Date	CET (UT+1h)	Ampl. in H(nT)	Hx	Hy	Hz	Remark
050121	1811	63	+	-	+	
050515	0333	90	+	-	-	
050614	1935	50	+	-	-	
050711	1206	29	+	-	-	
050717	0235	15	+	-	+	
050824	0957	53	+	-	-	
050902	1519	10	+	-	+	
050909	1501	36	+	-	+	
050911	0214	13	+	-	+	
060101	1504	17	+	-	-	?
060709	2235	33	+	-	+	
060727	1452	21	+	-	-	
060807	0129	24	+	-	+	
060818	0214	6	+	-	+	
060819	1231	22	+	-	+	
060904	0119	32	+	-	+	
061208	0533	31	+	-	+	
061214	1514	36	+	-	-	
061216	1853	28	+	-	+	

*Special phenomena*  
sfe 2005-2006

Date	Beginning	Maximum	End	Ampl. nT	Sign			Remark
	GMT	GMT	GMT		Hx	Hy	Hz	
050606	0737	0744	0752	8	-	-	+	
051014	0927	0932	0935	5	-	+	-	
051021	1013	1017	1022	3	-	+	-	
051102	0804	0809	0814	5	-	+	-	
060127	1003	1007	1010	10	-	+	-	?
060323	0844	0850	0856	5	-	+	-	
060331	1040	1048	1103	7	-	+	-	
060703	0551	0556	0600	6	-	+	-	
060724	0837	0843	0847	8	-	+	+	
061122	1101	1105	1111	12	-	+	-	
061122	1336	1342	1348	13	-	+	+	
061125	0932	0936	0938	8	-	+	-	
061210	1141	1146	1151	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
1999	2°18.3'	21055	43030	63°55.6'	21038	847	47905

Year	D	H nT	Z nT	I	X nT	Y nT	F nT
2000	2°23.7'	21054	43068	63°56.9'	21035	880	47938
2001	2°28.4'	21064	43099	63°57.2'	21045	909	47972
2002	2°33.7'	21072	43136	63°57.9'	21051	942	48008
2003	2°39.6'	21071	43180	63°59.3'	21048	978	48047
2004	2°44.4'	21084	43208	63°59.4'	21060	1008	48078
2005	2°49.2'	21097	43240	63°59.5'	21071	1038	48112
2006	2°57.0'	21116	43261	63°59.0'	21088	1087	48140

The yearly means of geomagnetic absolute values  
in D, H and Z in the Observatory Nagycenk  
between 1961 and 2006

