

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

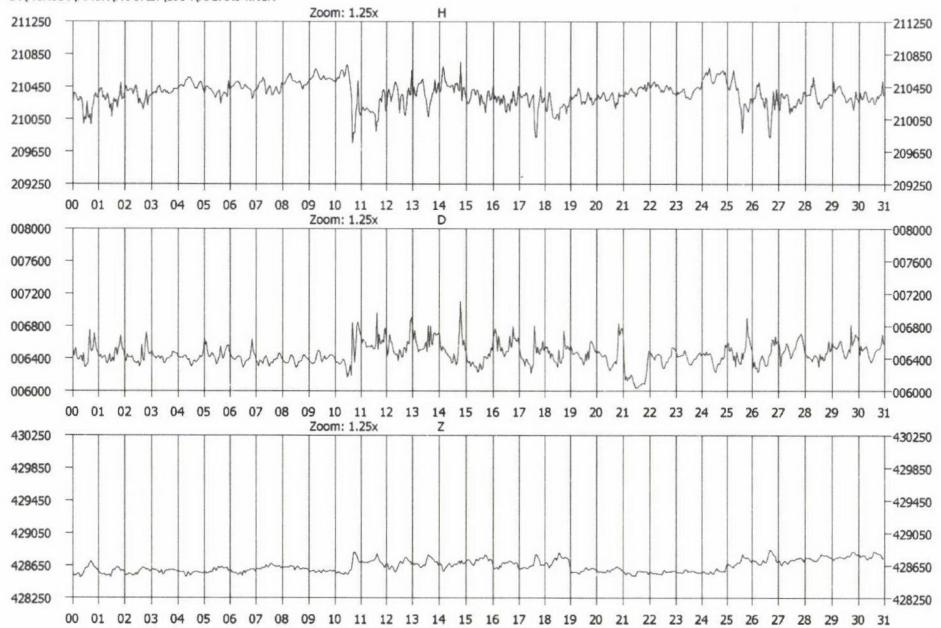
Table contains yearly means of the geomagnetic elements 1961 to 1993 in nT. These values are the results of a reevaluation of previously published data, including corrections eliminating disturbances caused by construction works in the observatory. Corrected values are noted by asterisk.

Times in this section are given in UT!

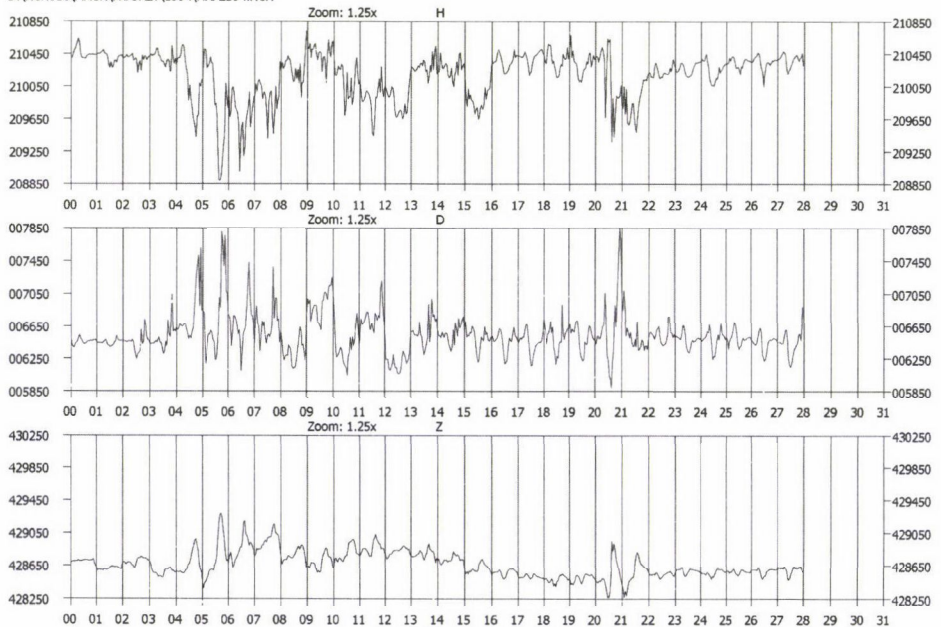
See CD (program Seenck.exe, menu item Magnetics).

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

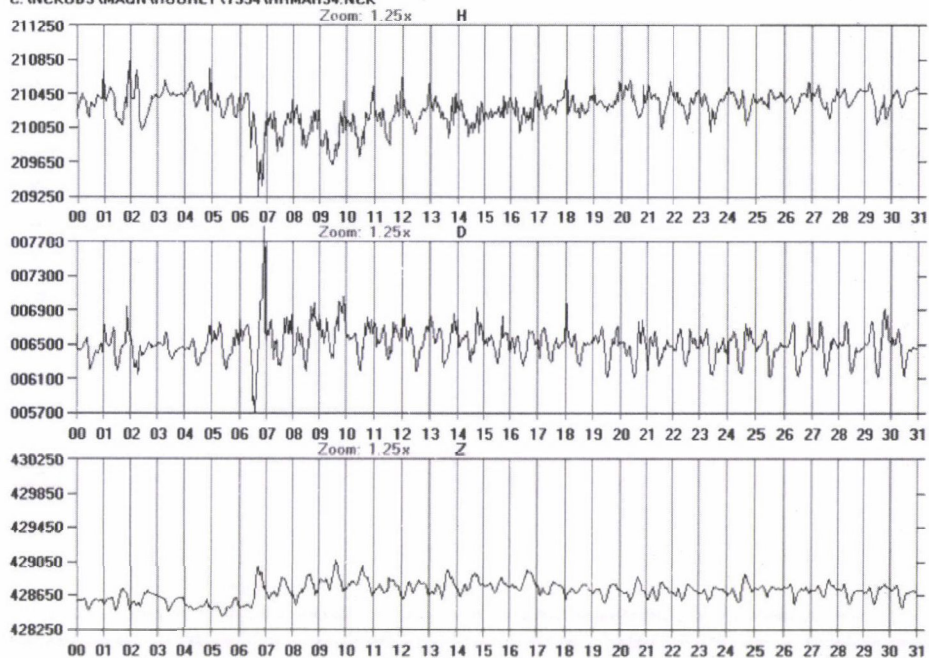
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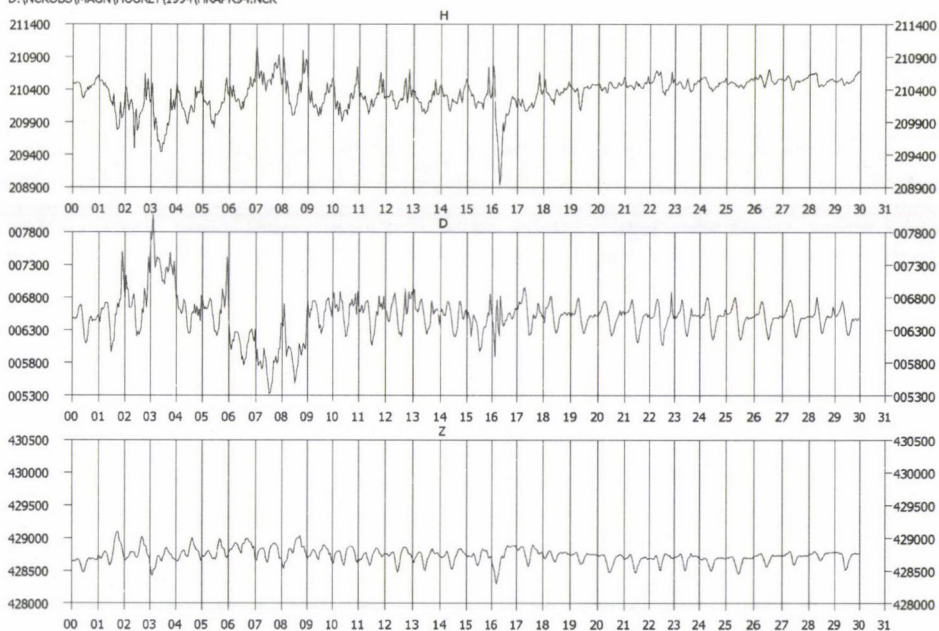
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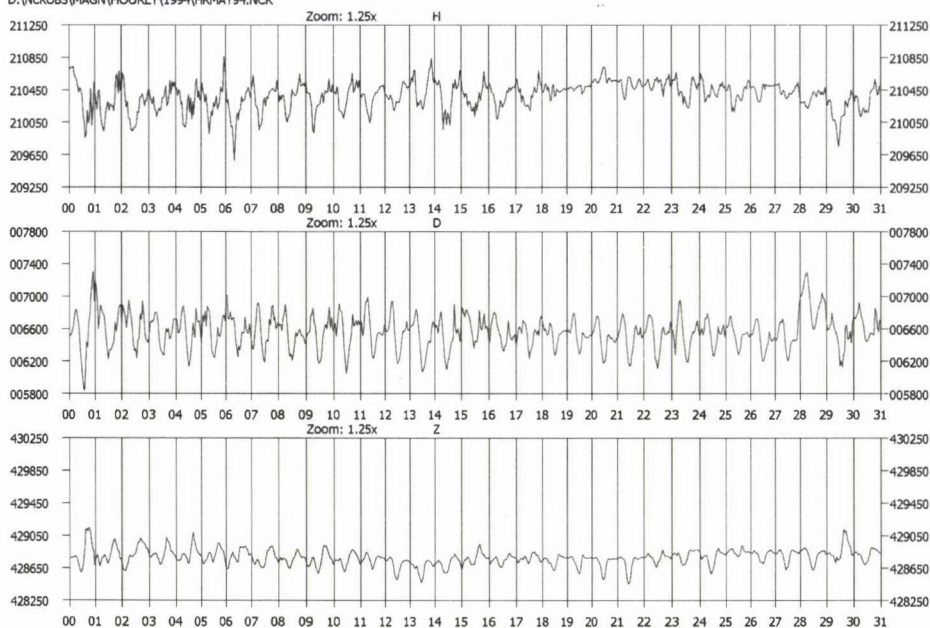
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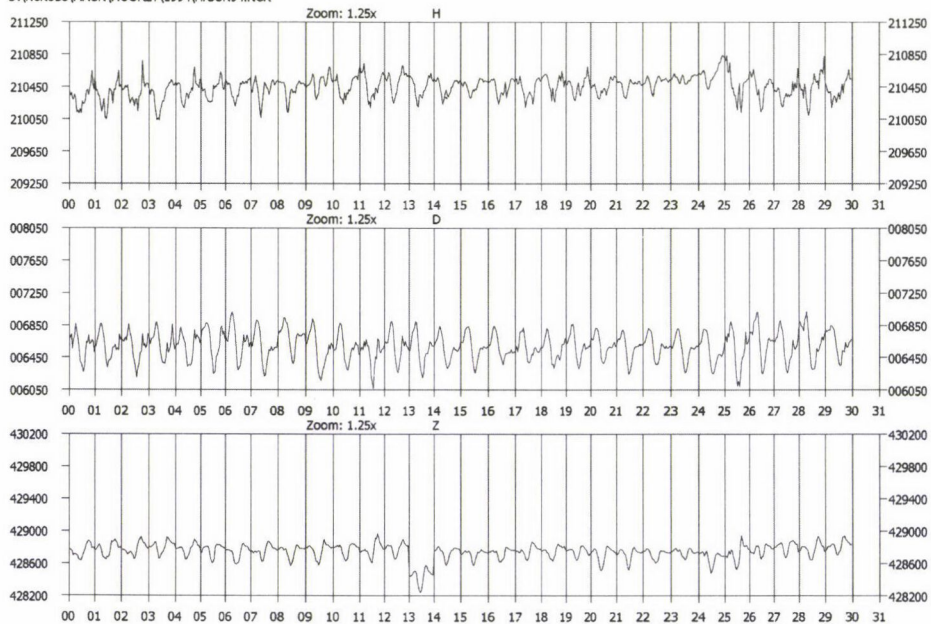
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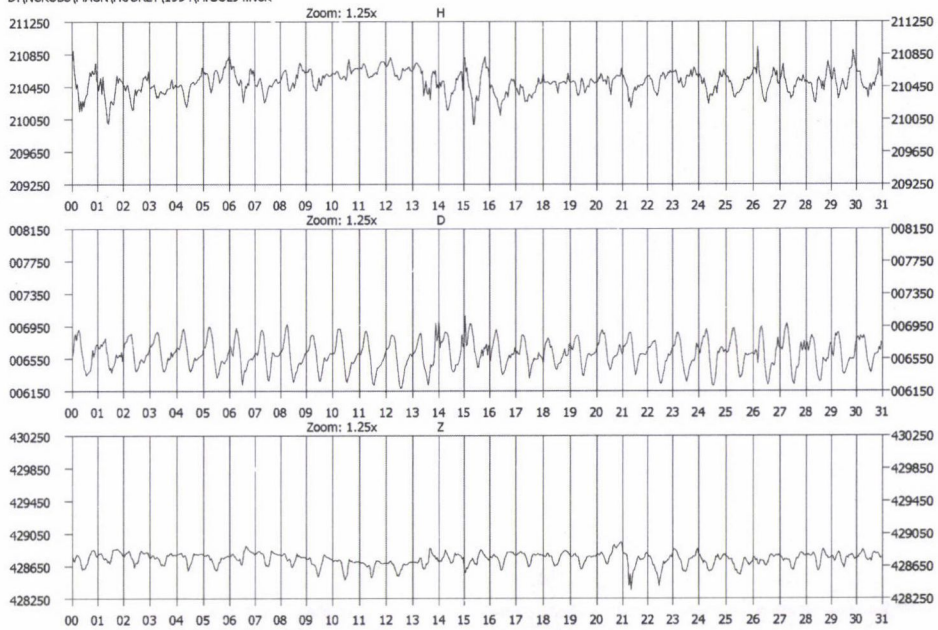
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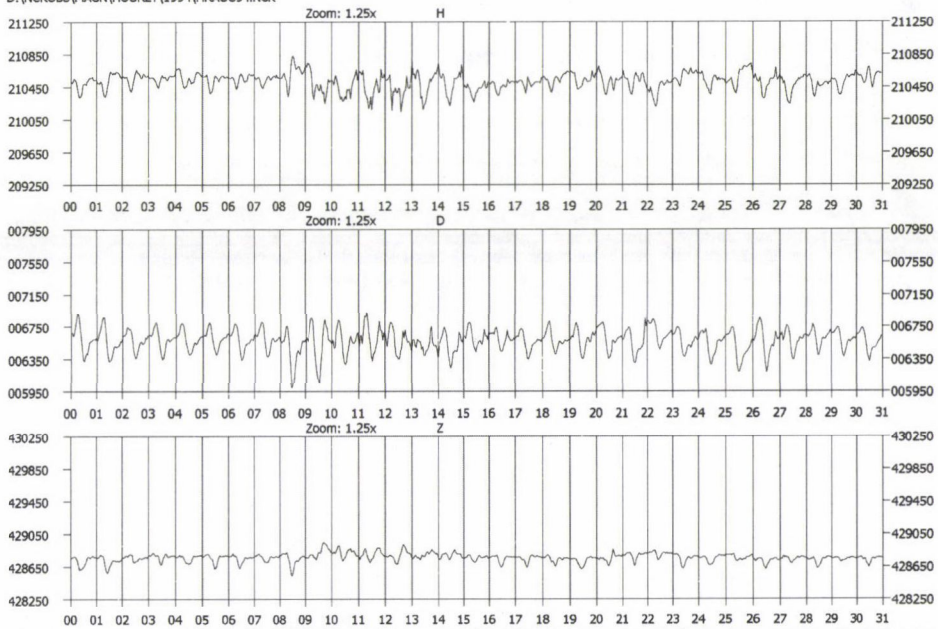
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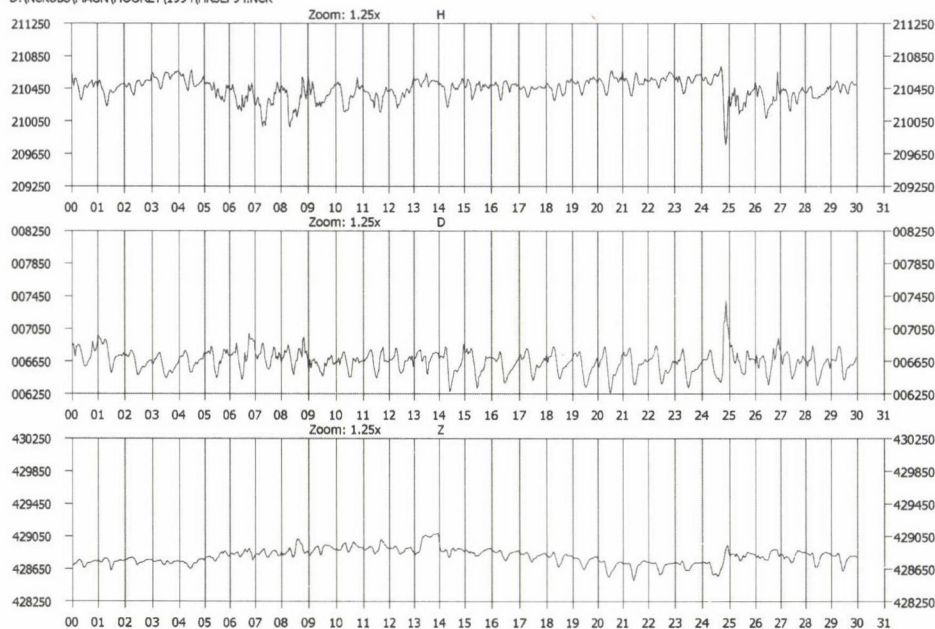
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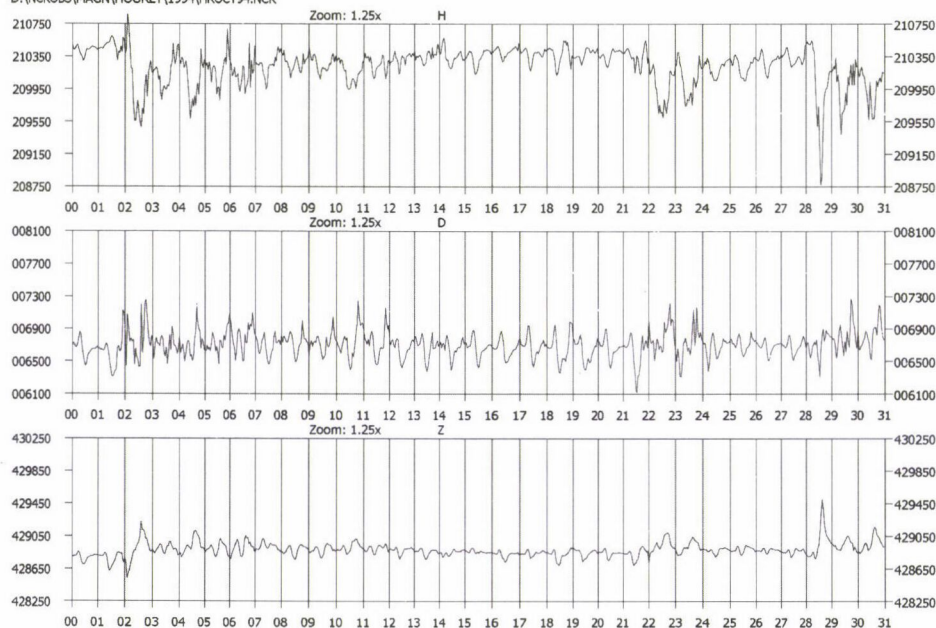
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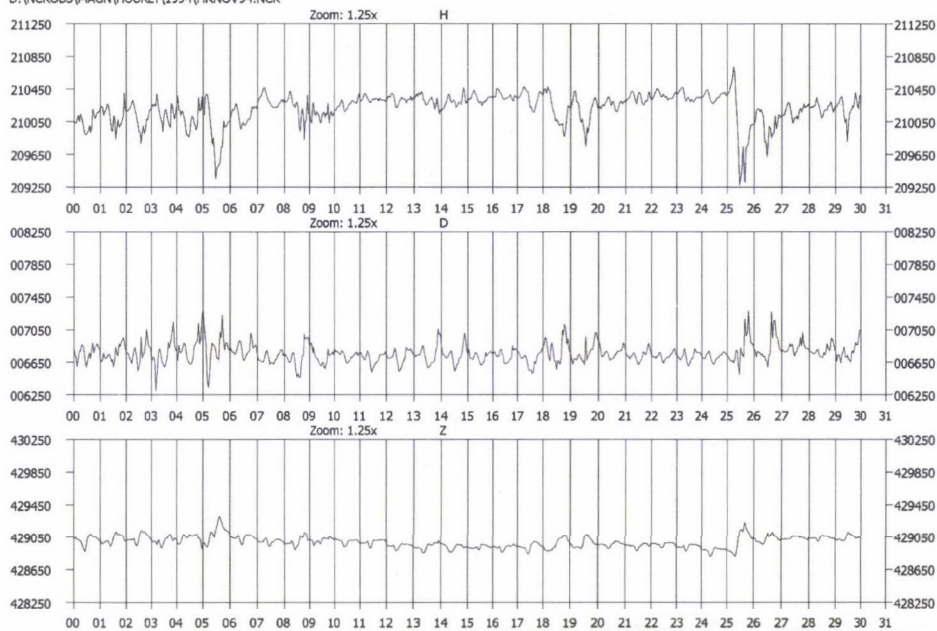
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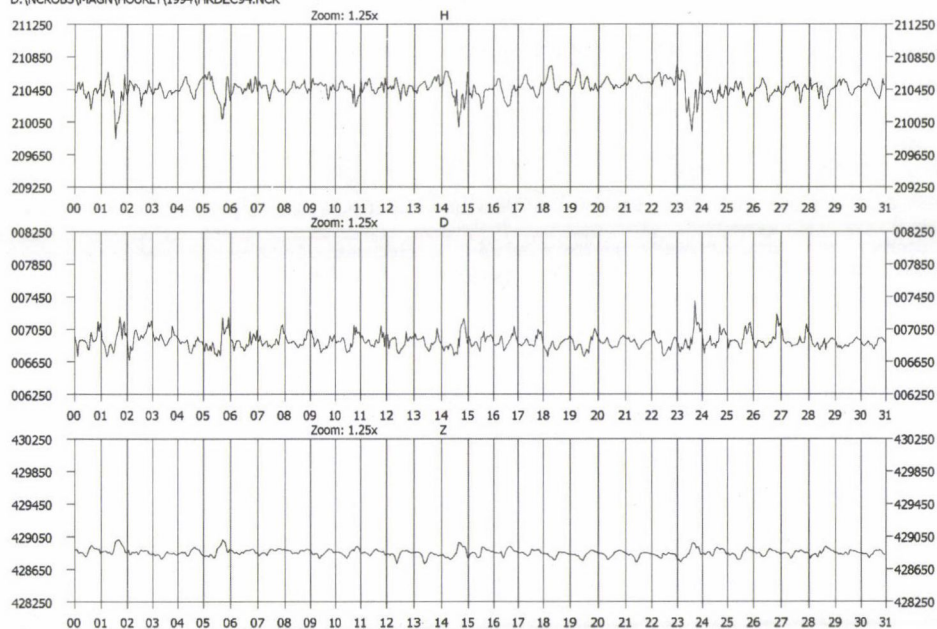
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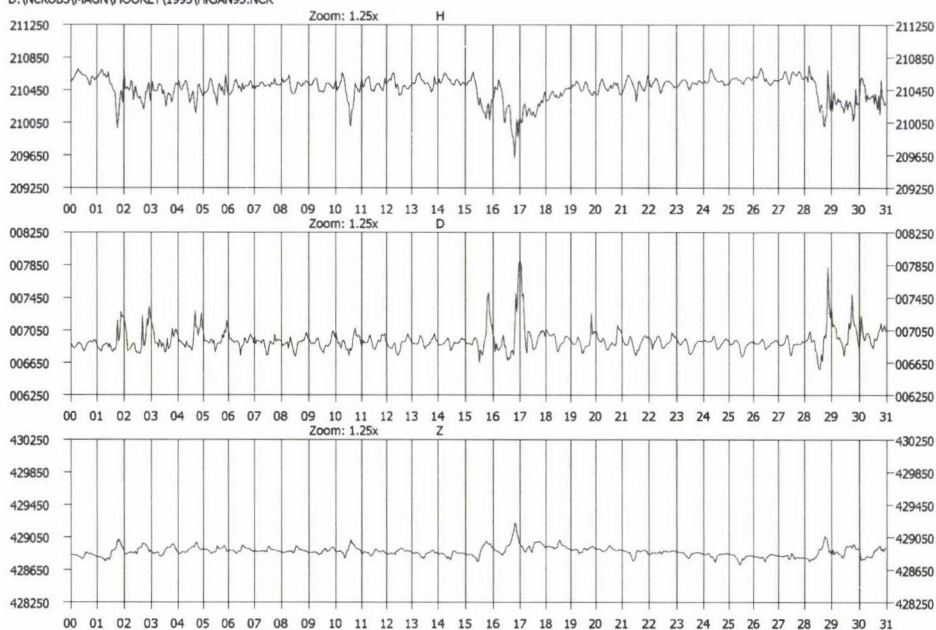
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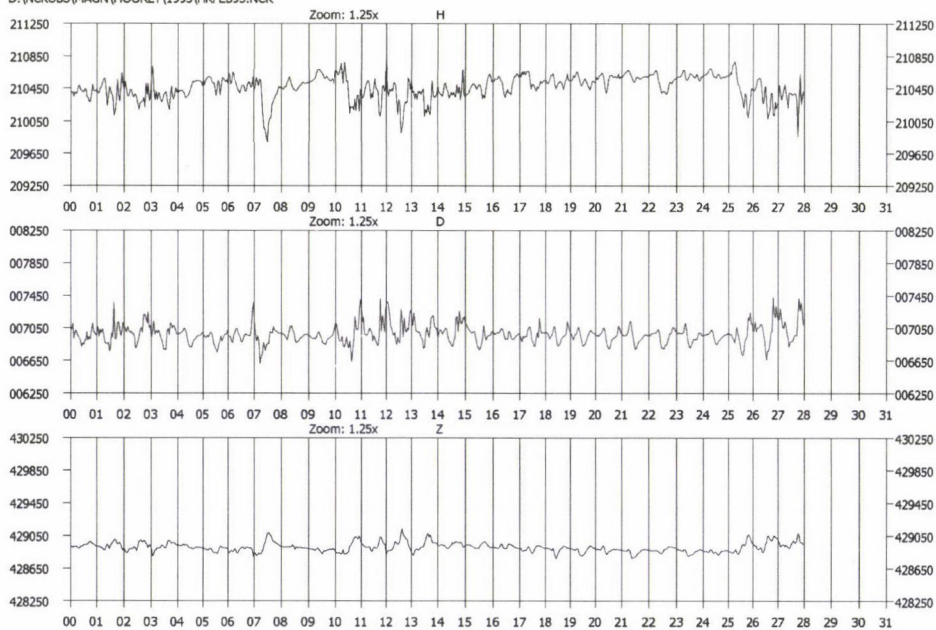
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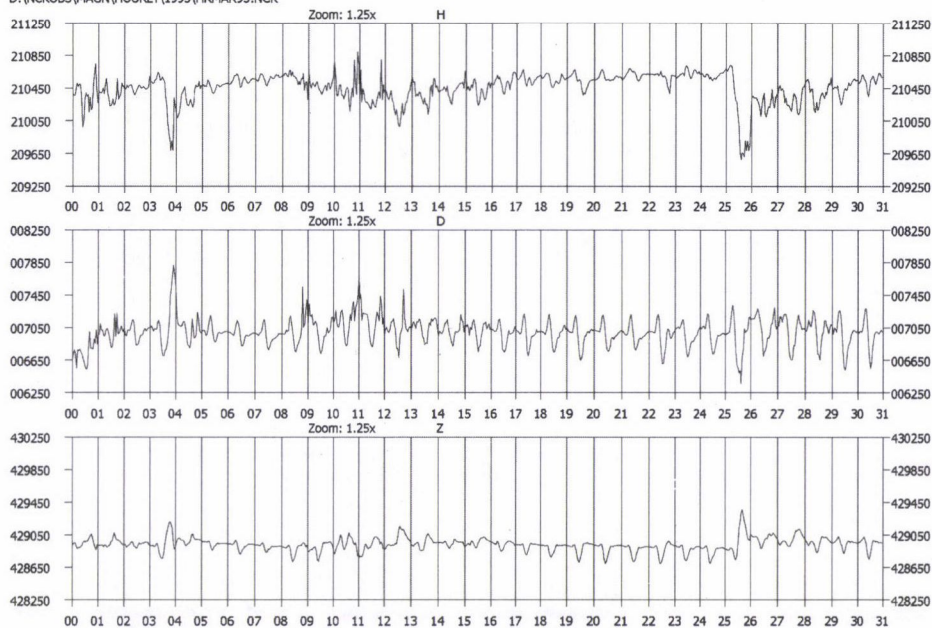
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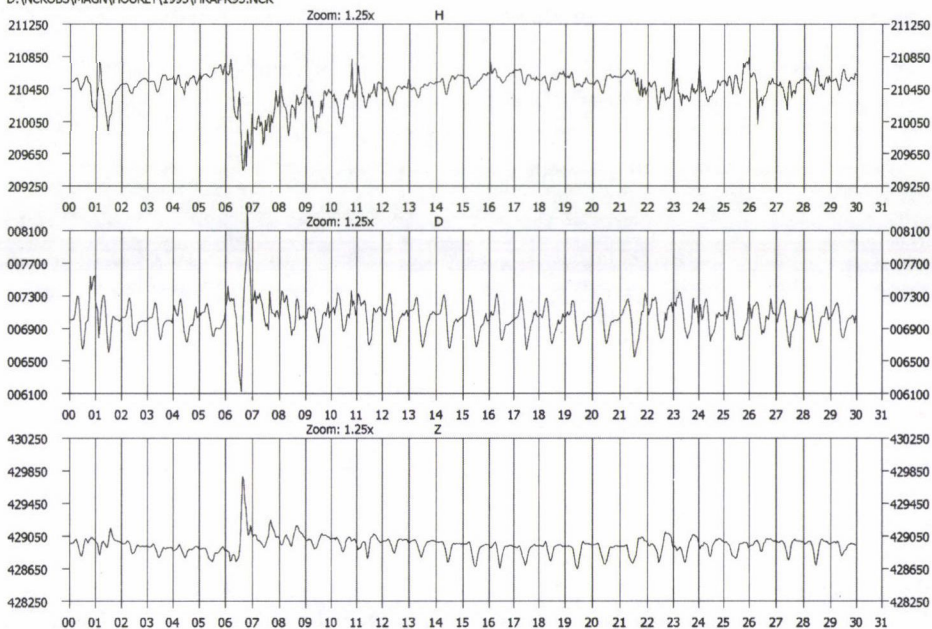
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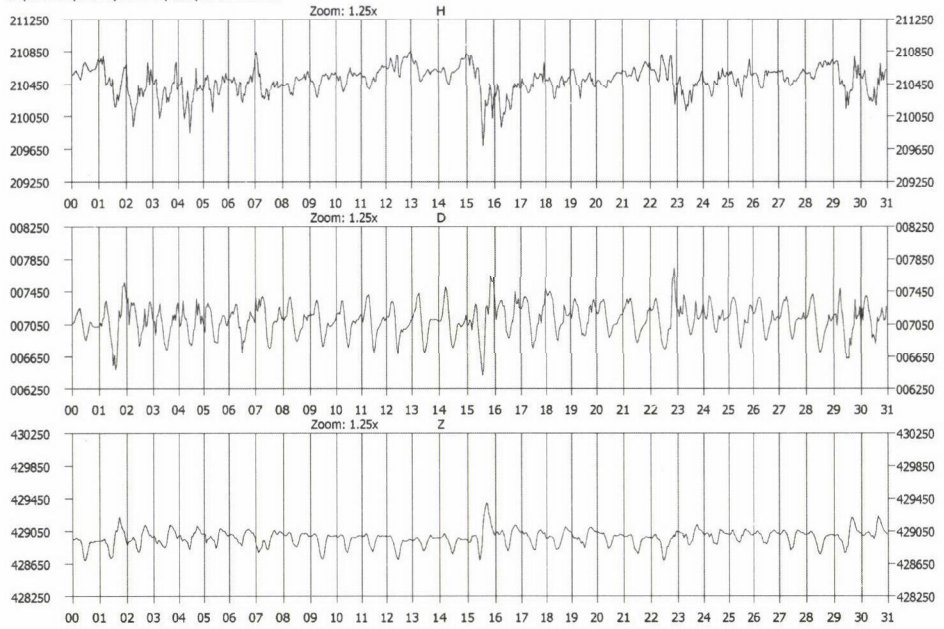
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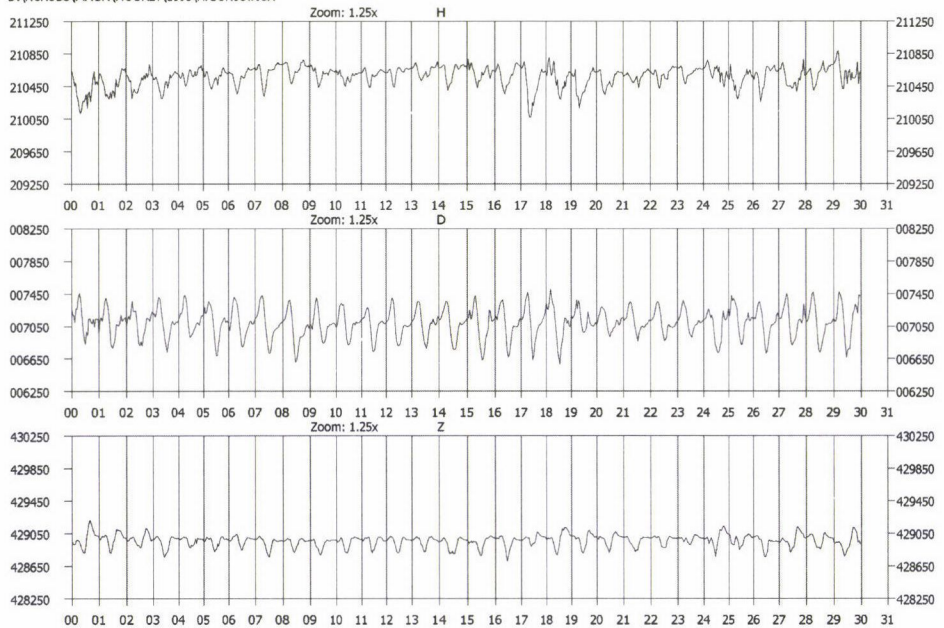
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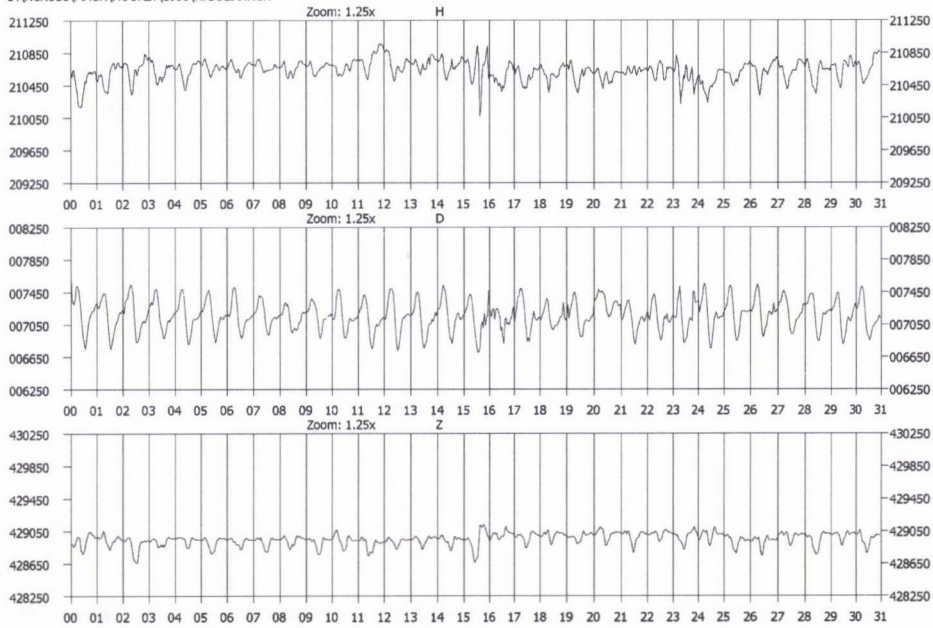
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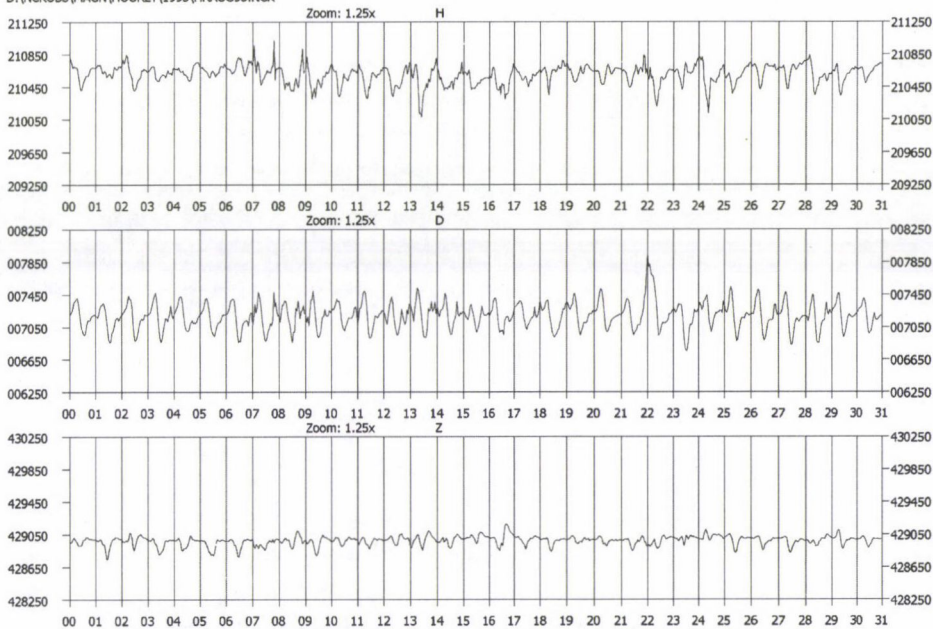
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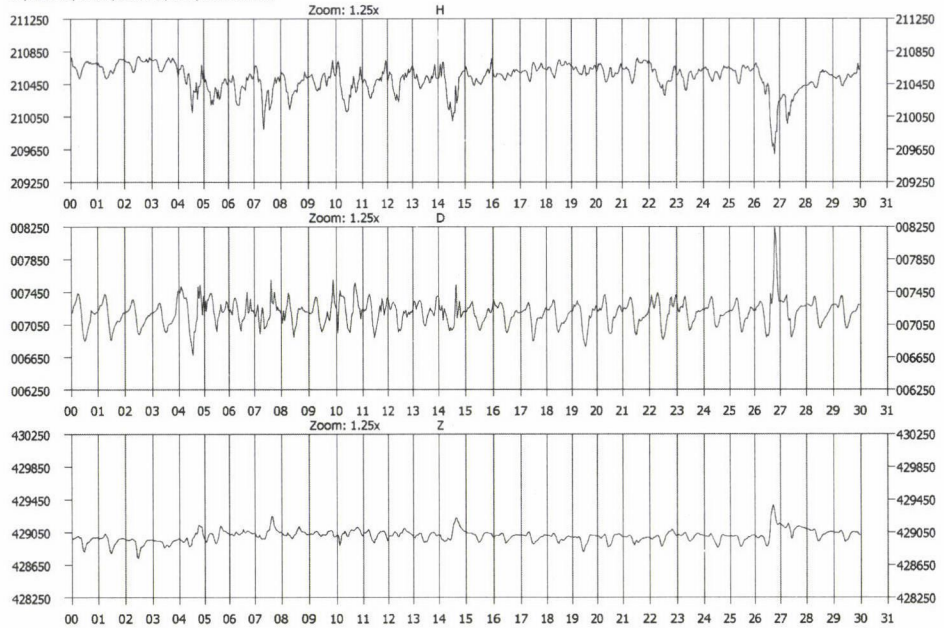
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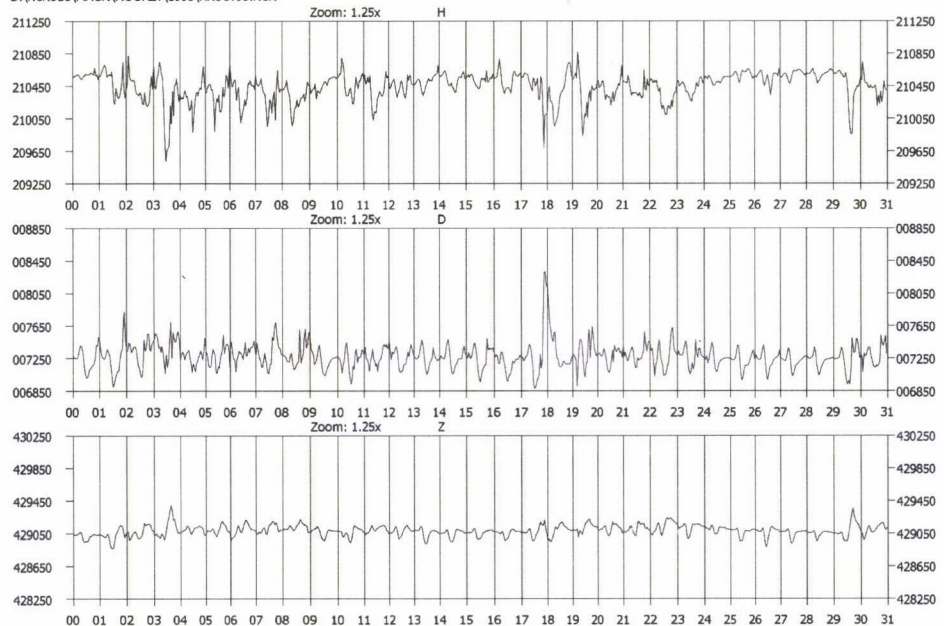
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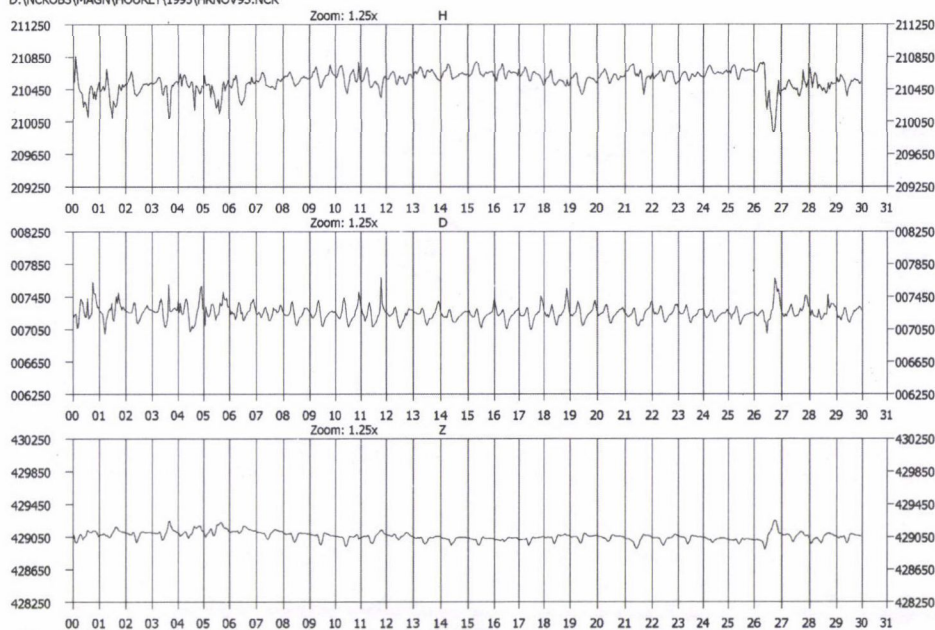
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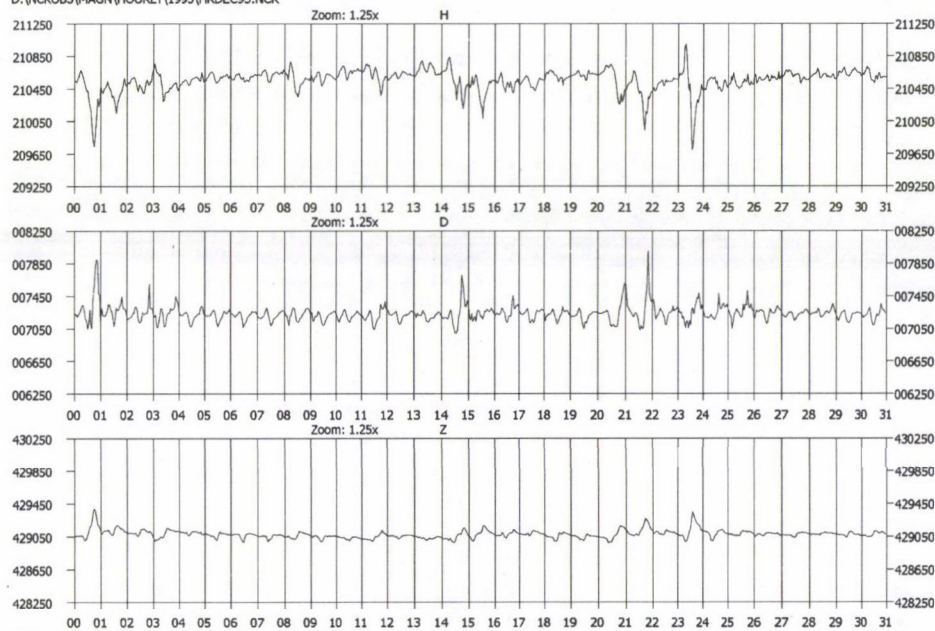
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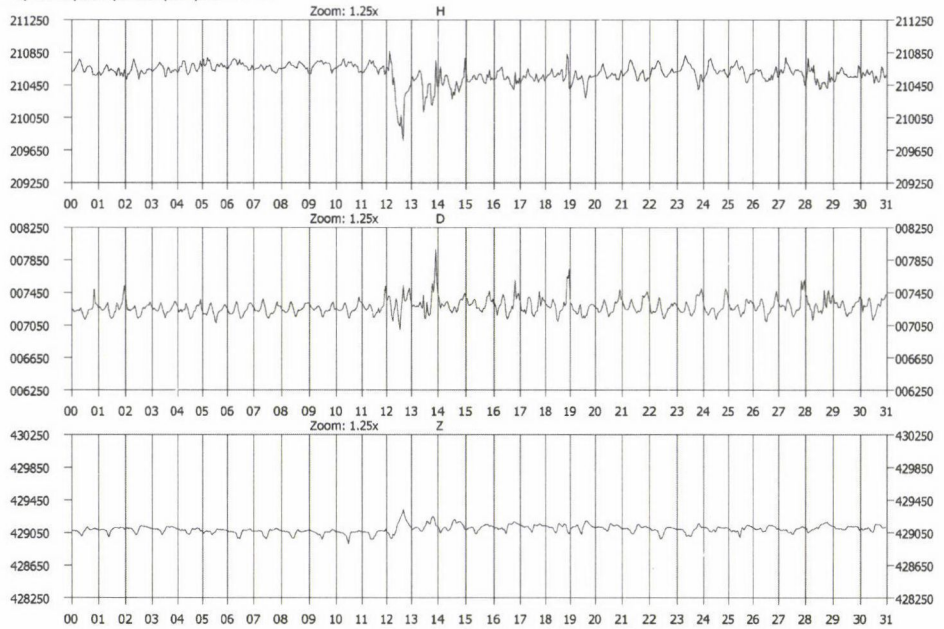
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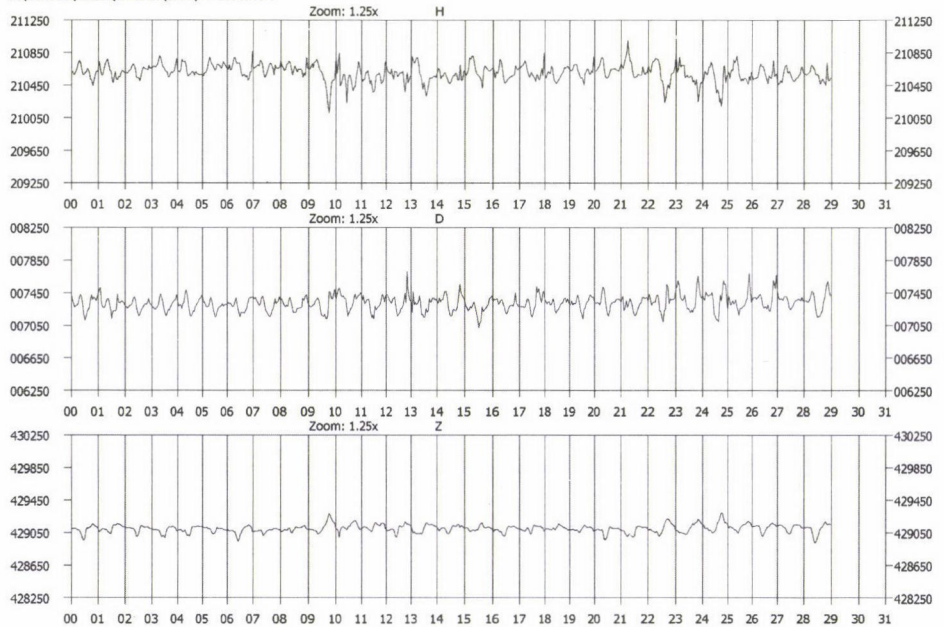
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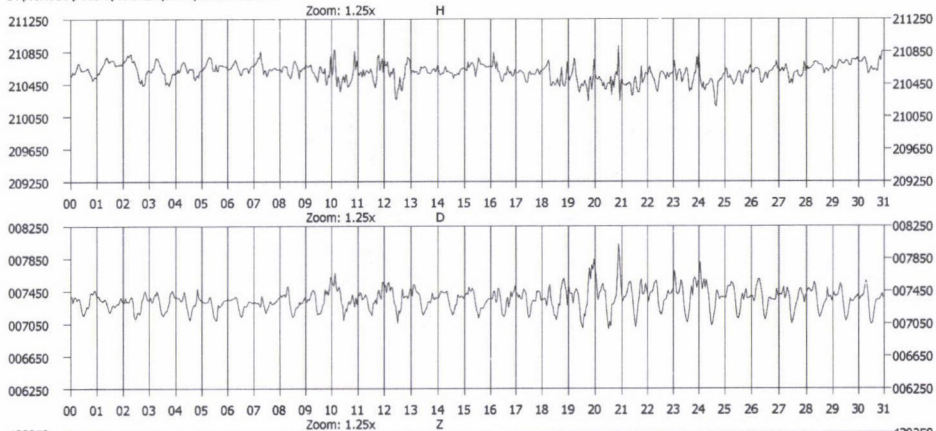
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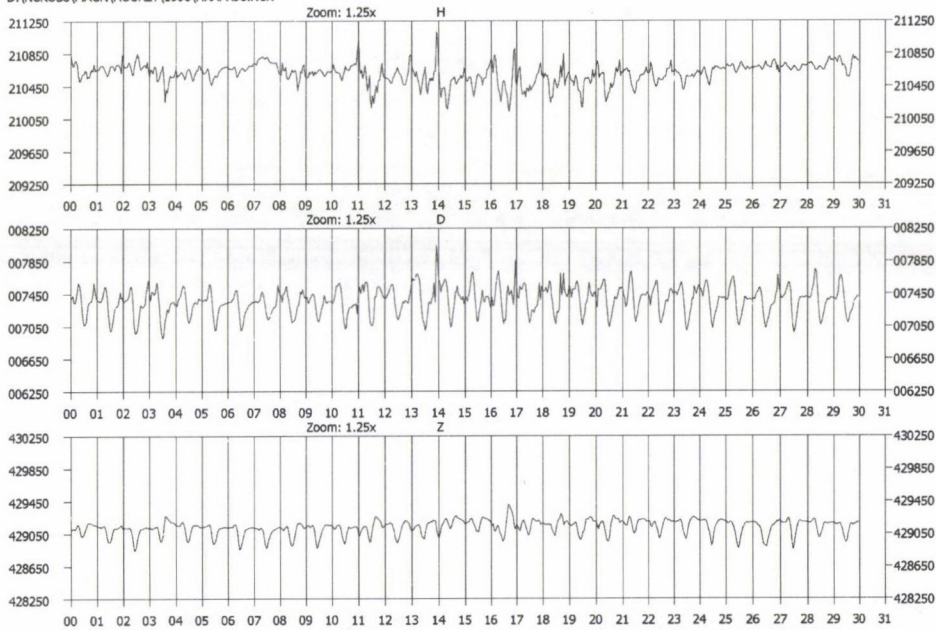
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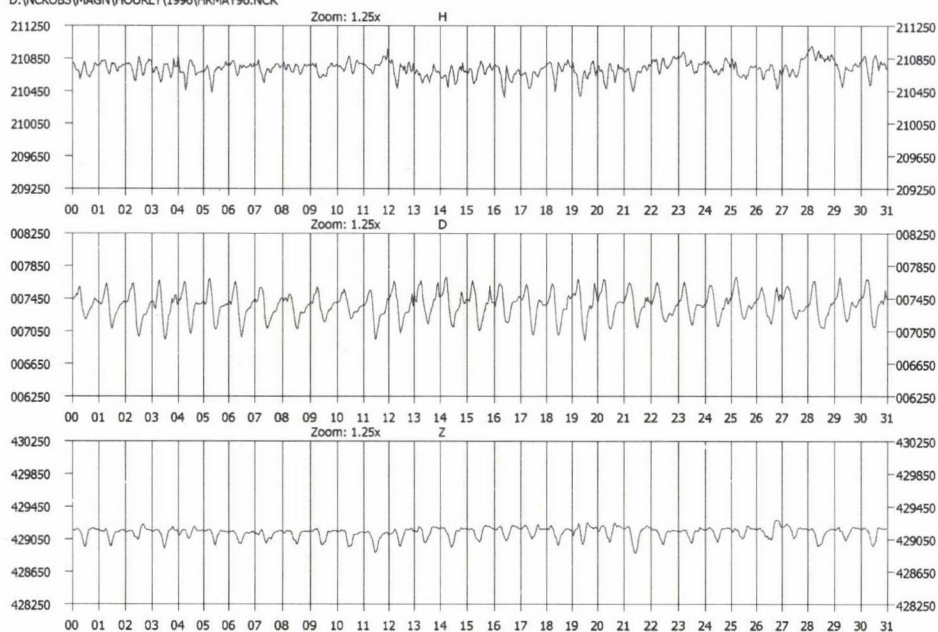
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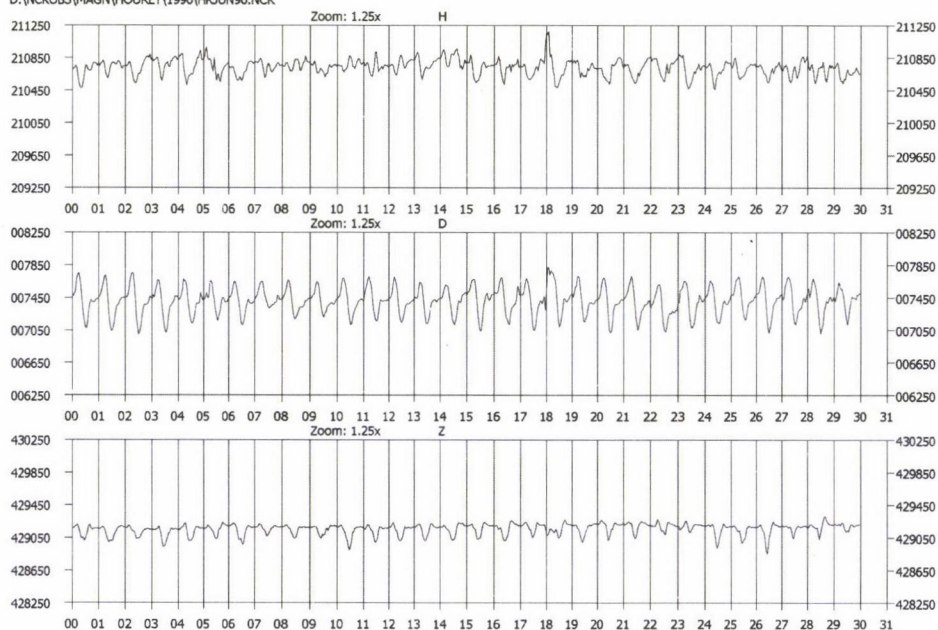
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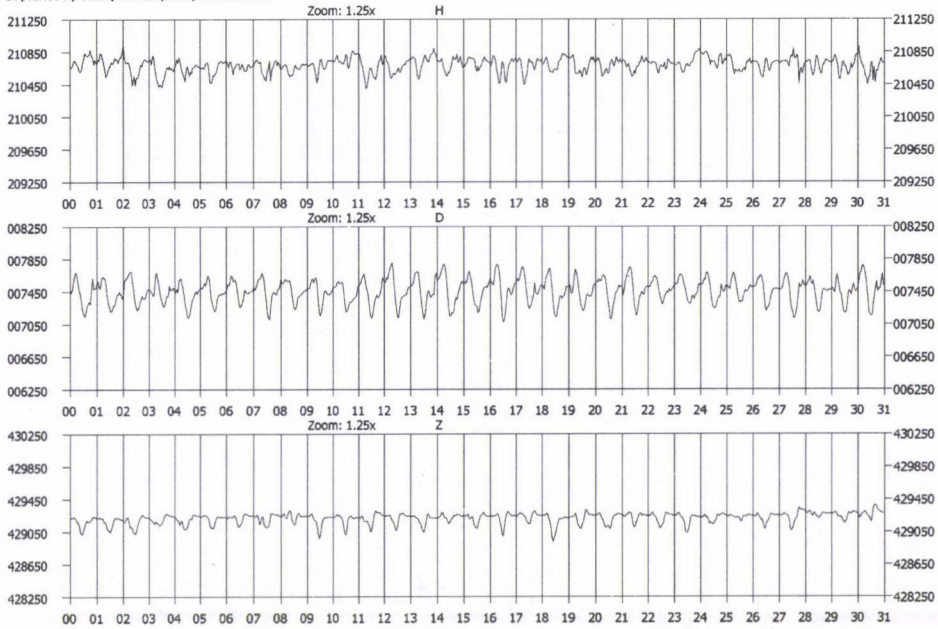
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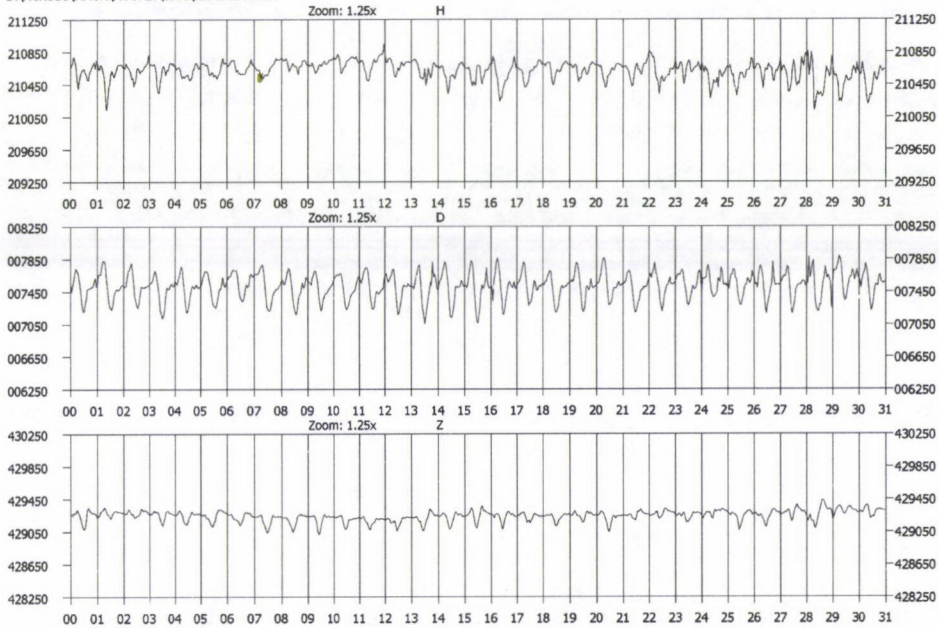
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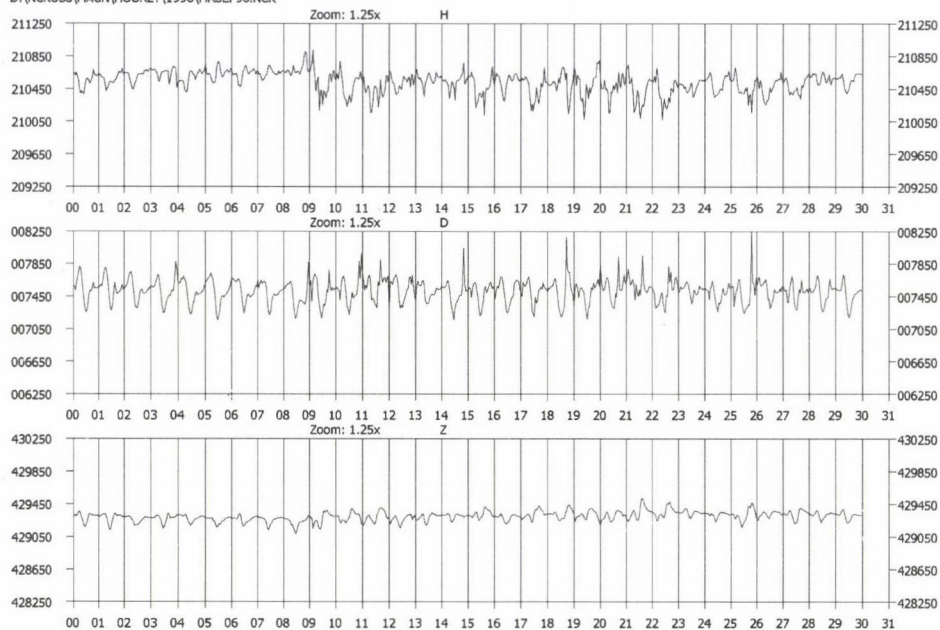
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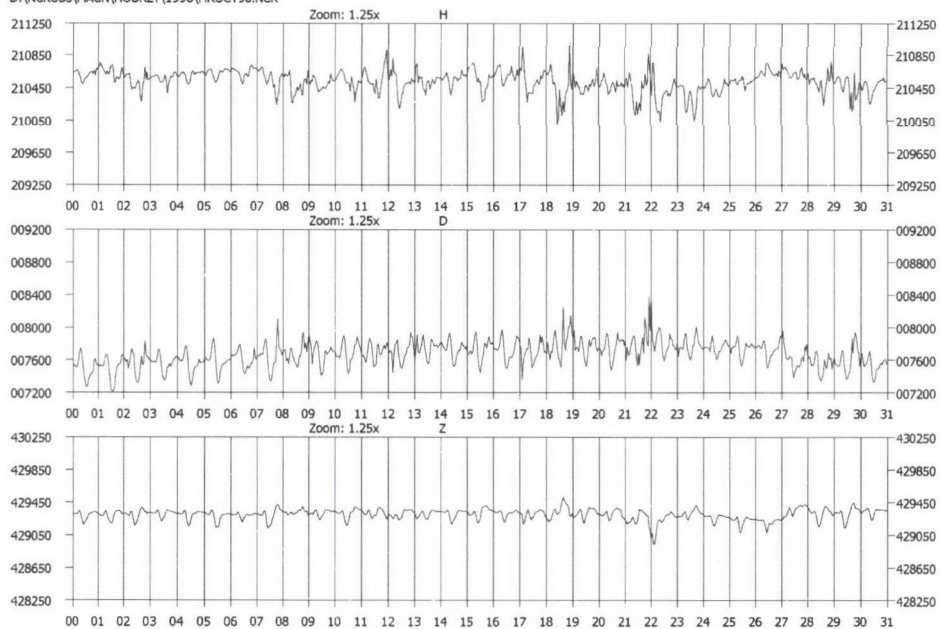
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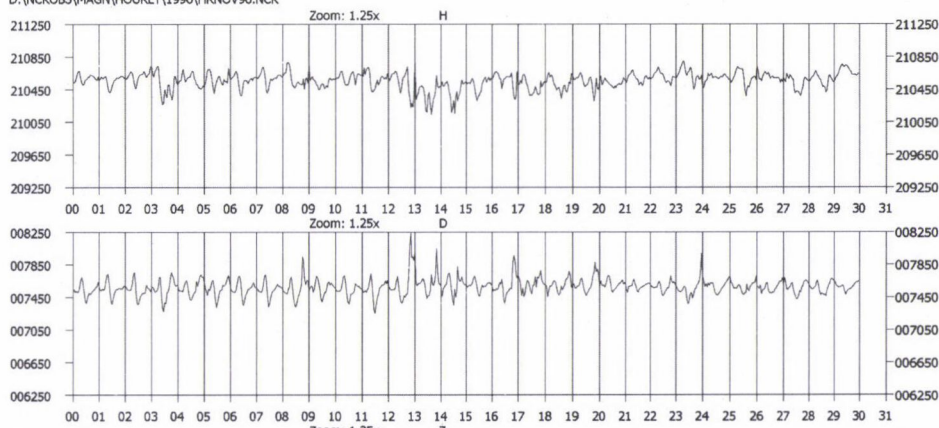
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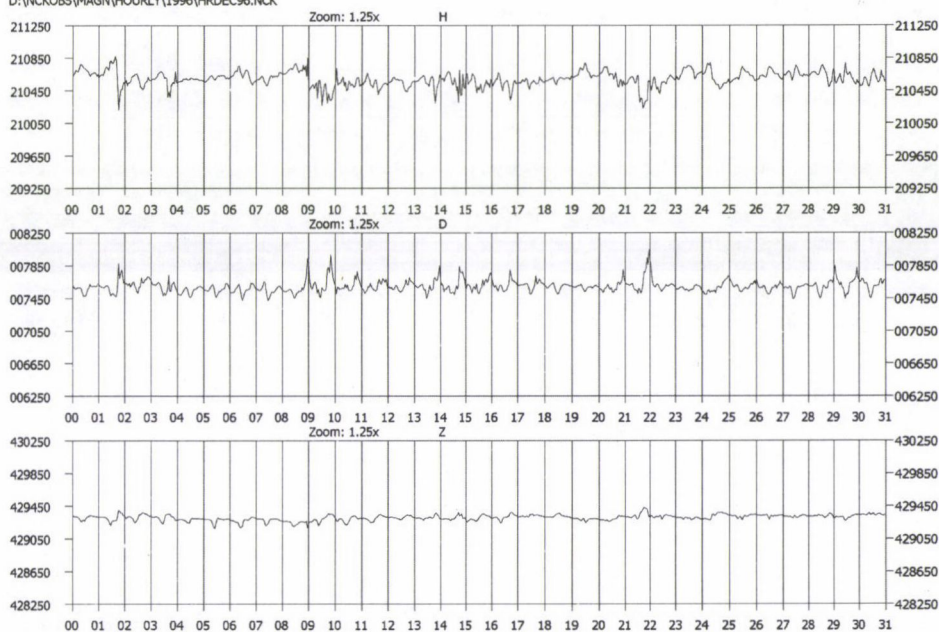
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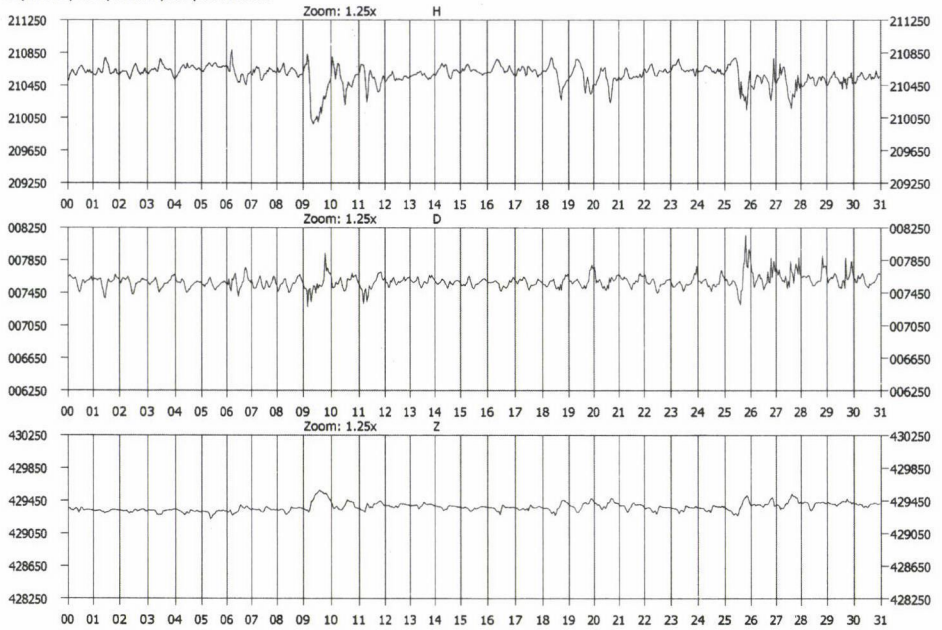
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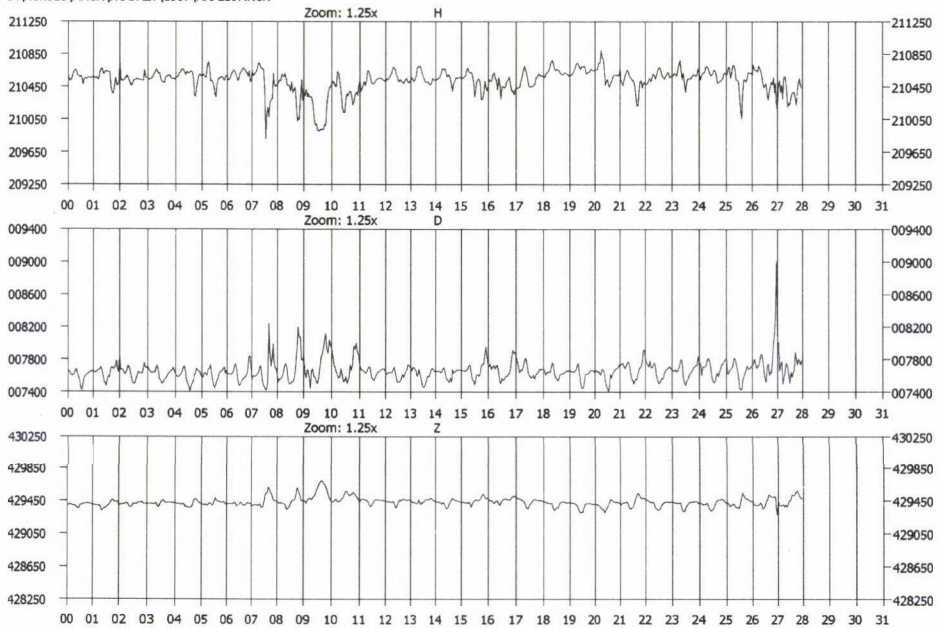
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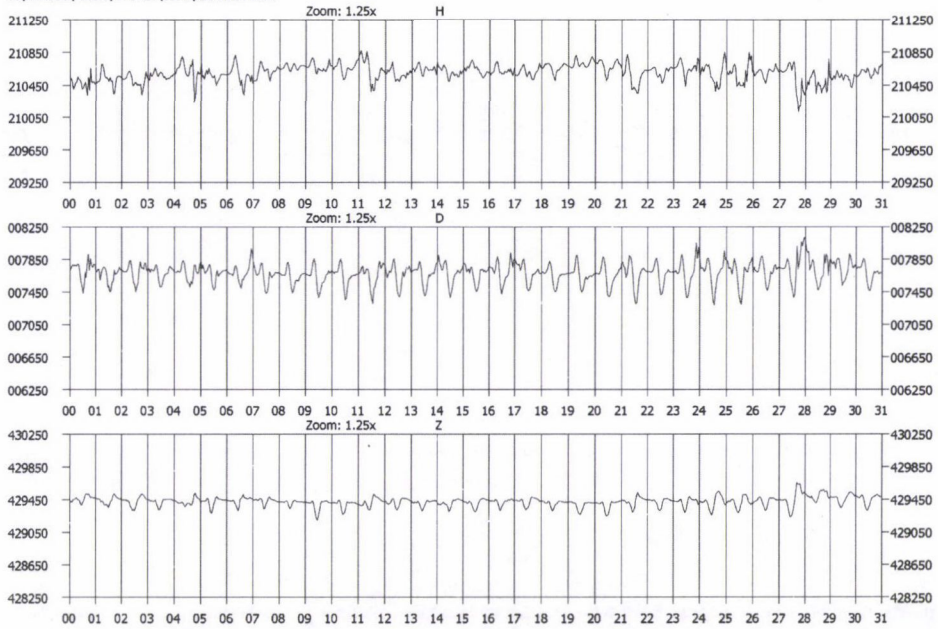
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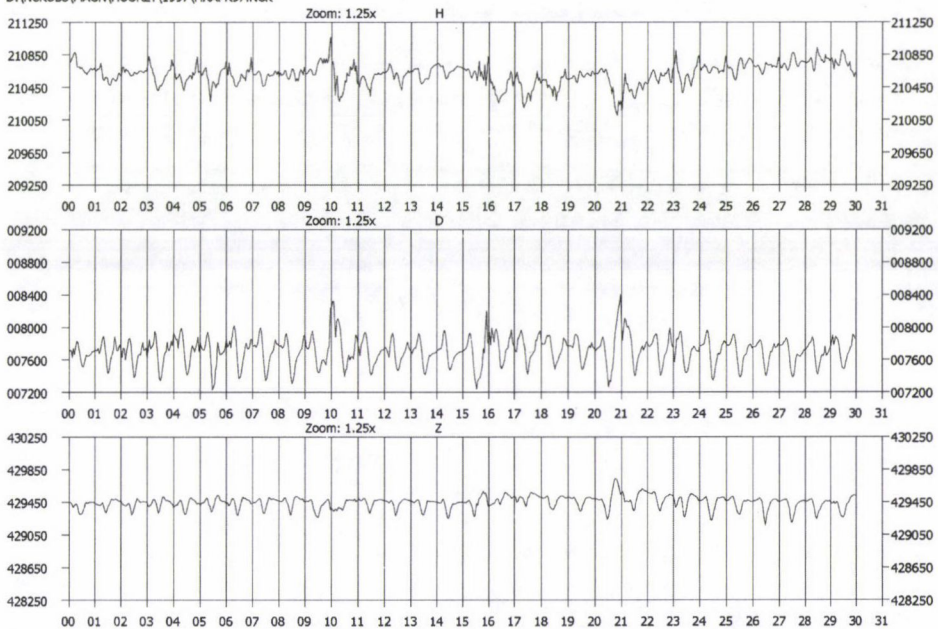
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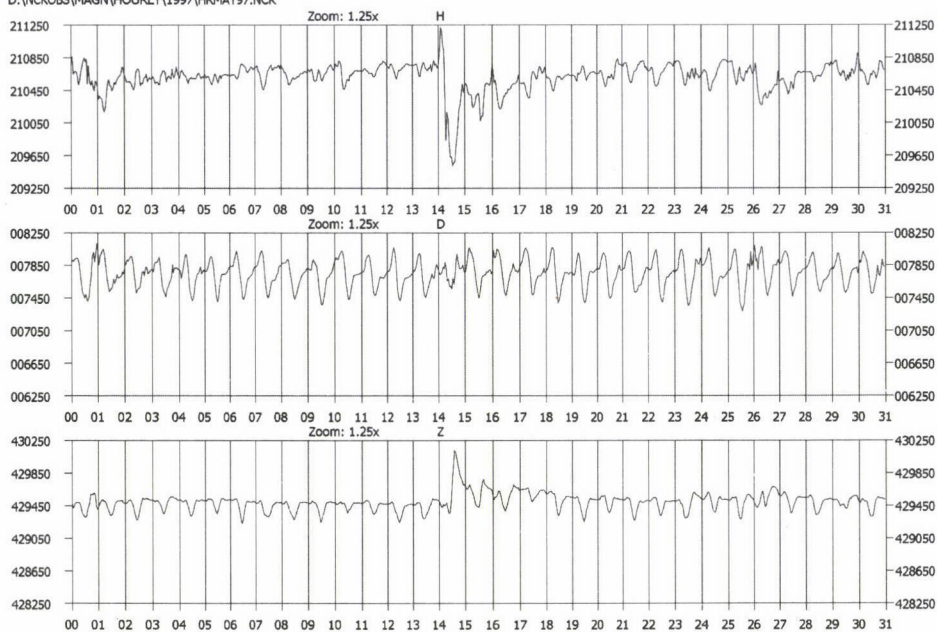
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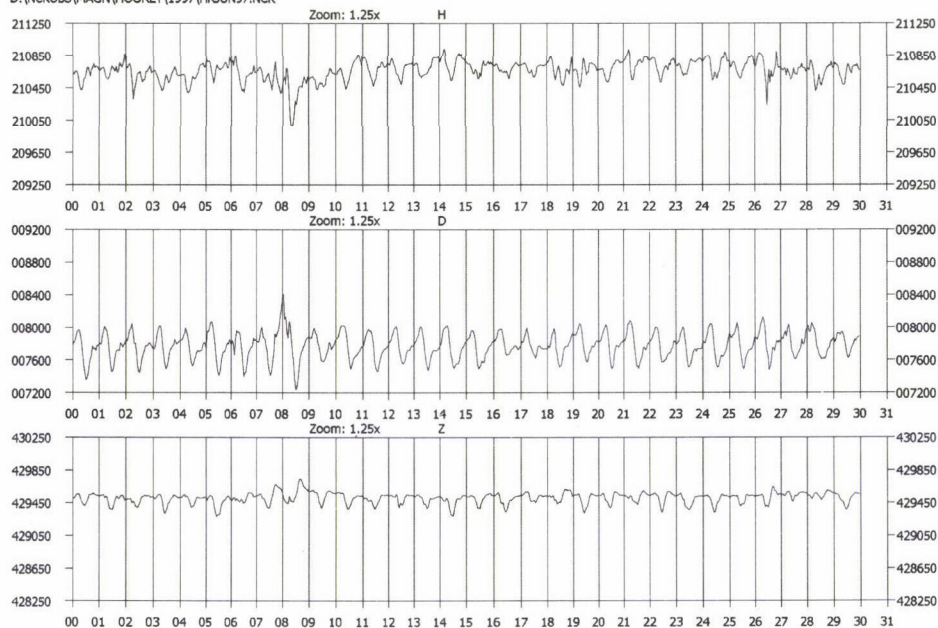
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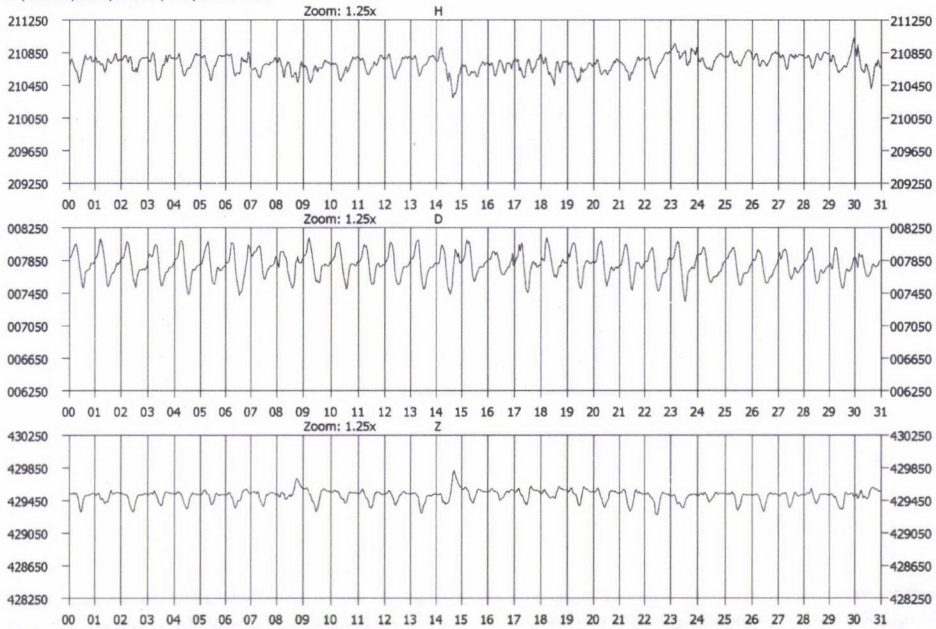
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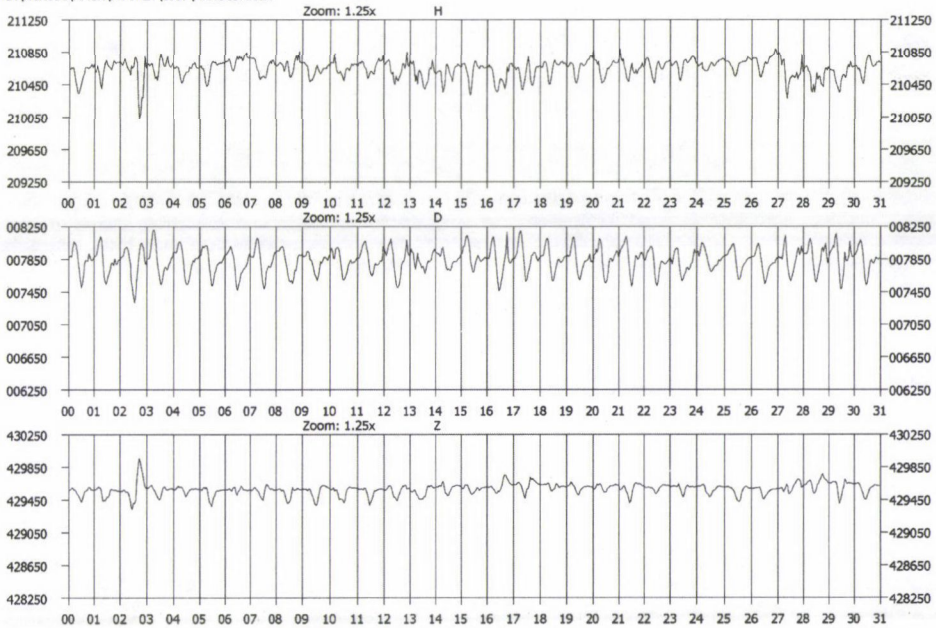
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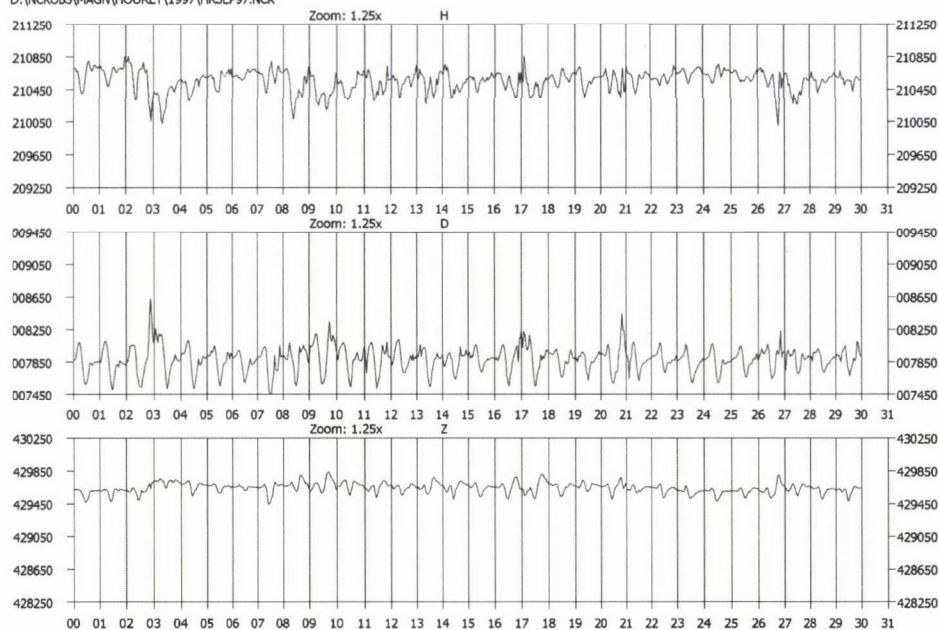
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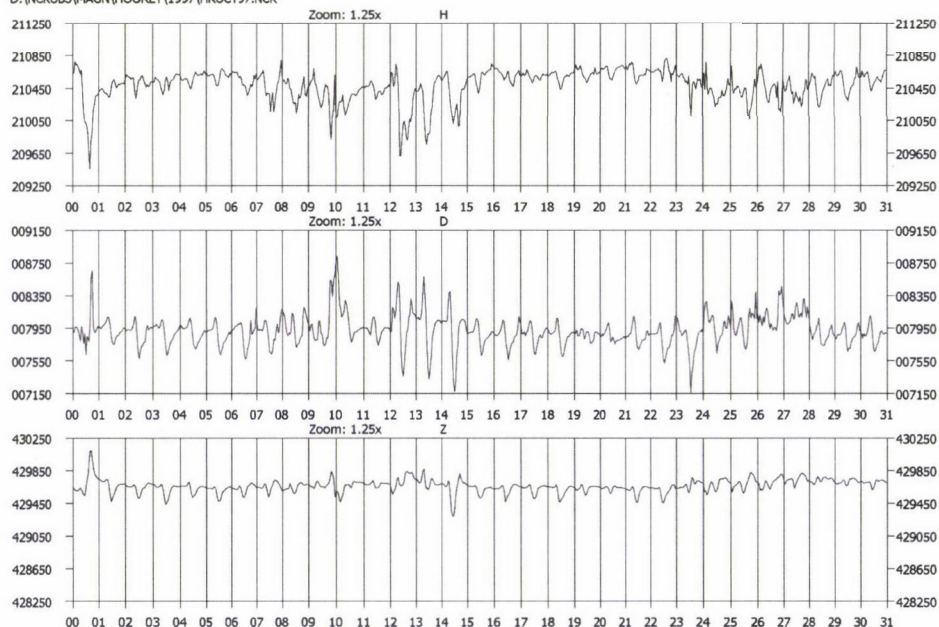
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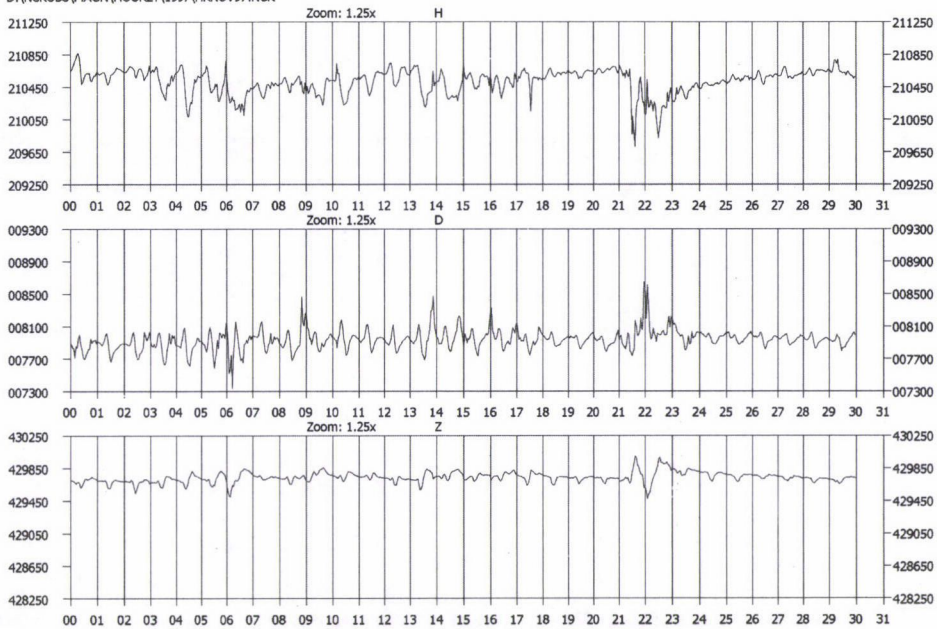
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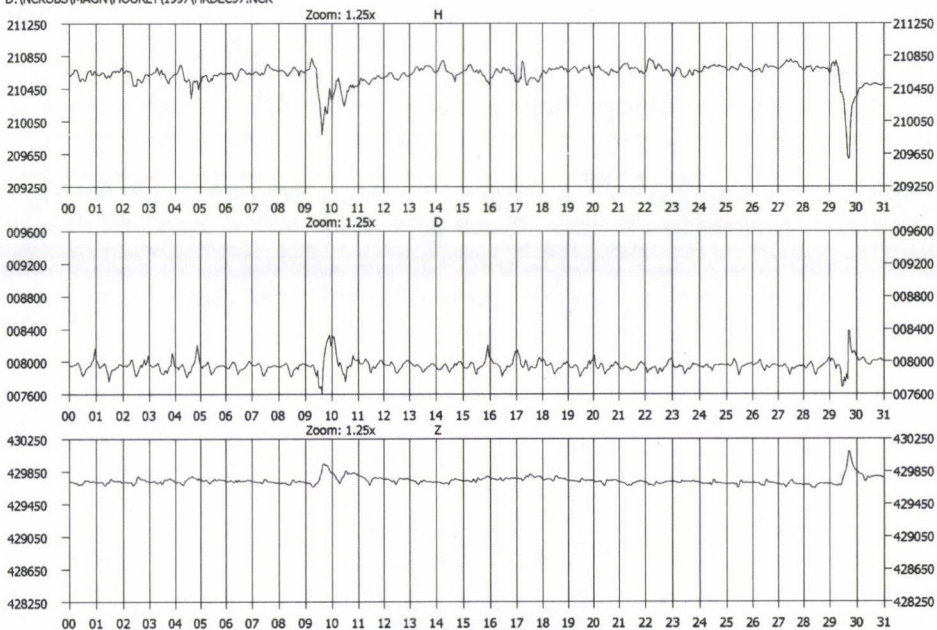
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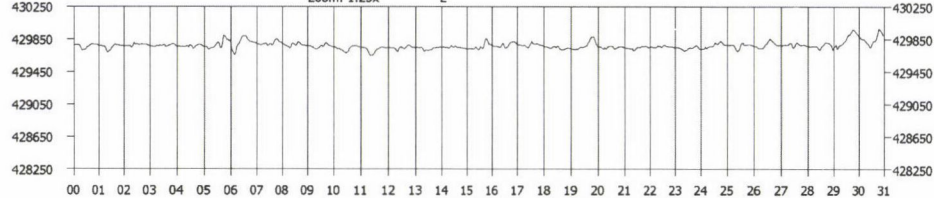
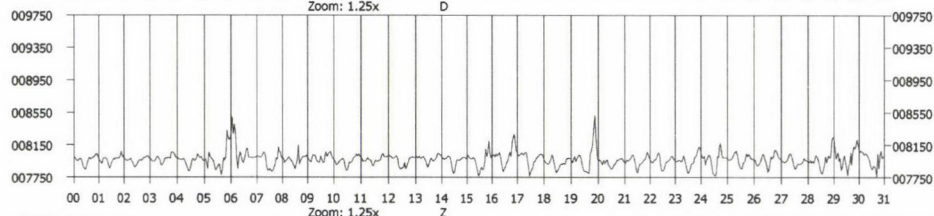
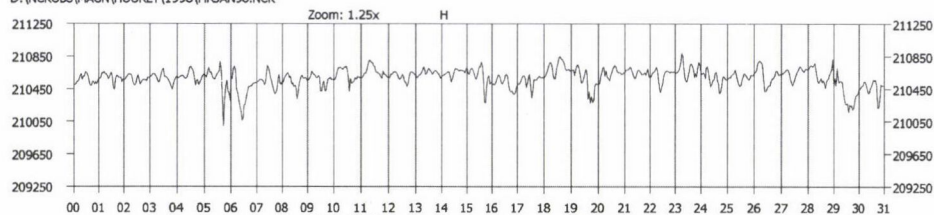
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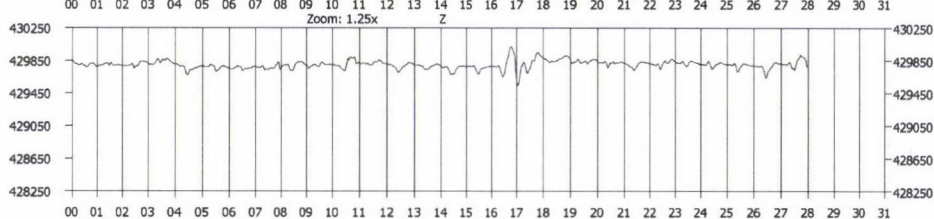
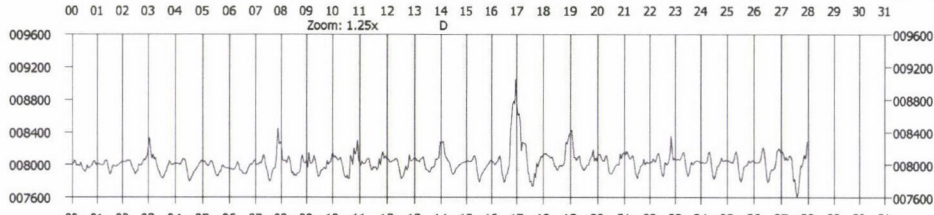
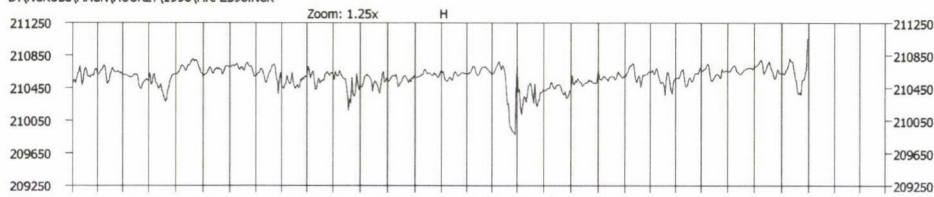
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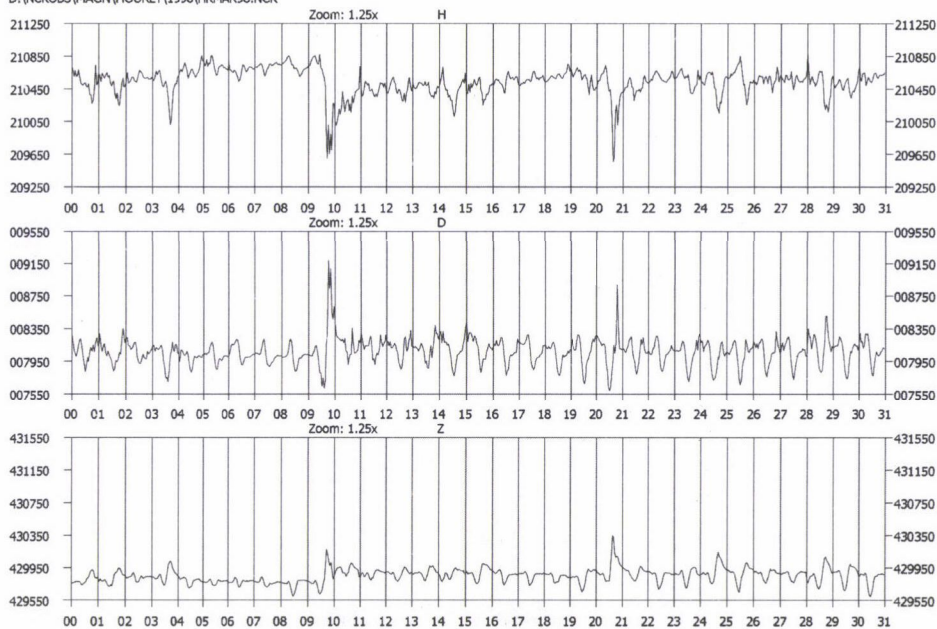
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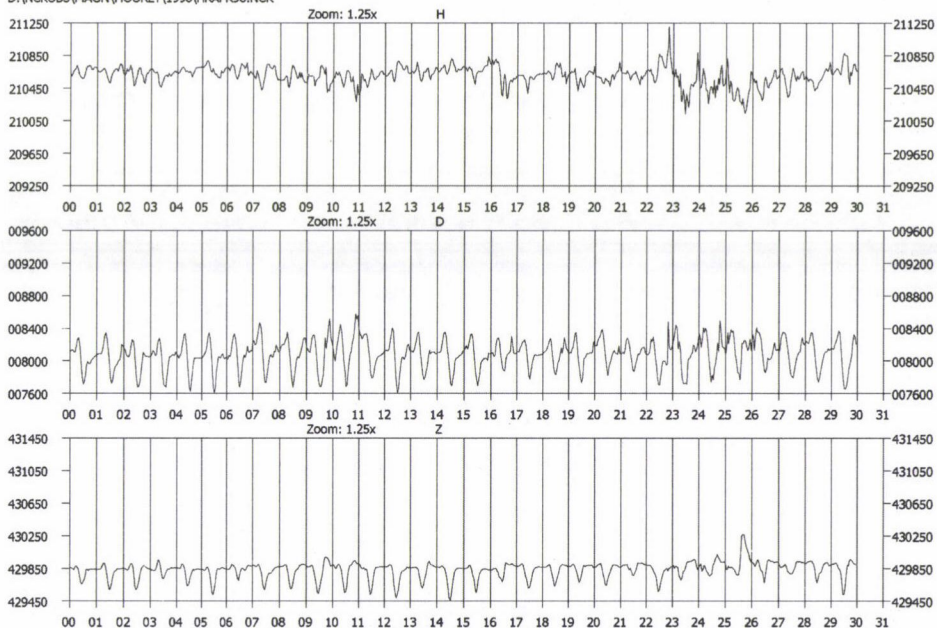
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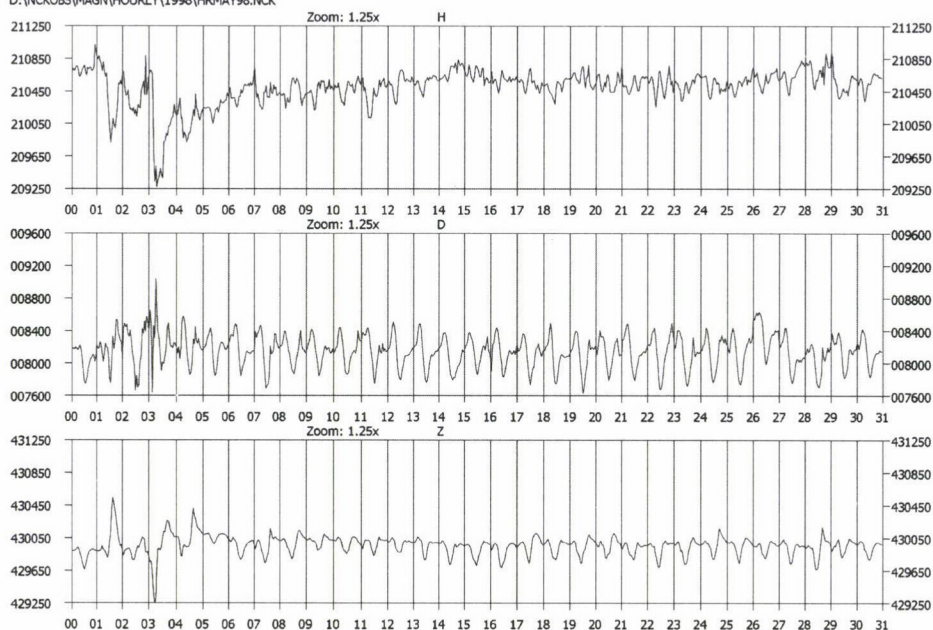
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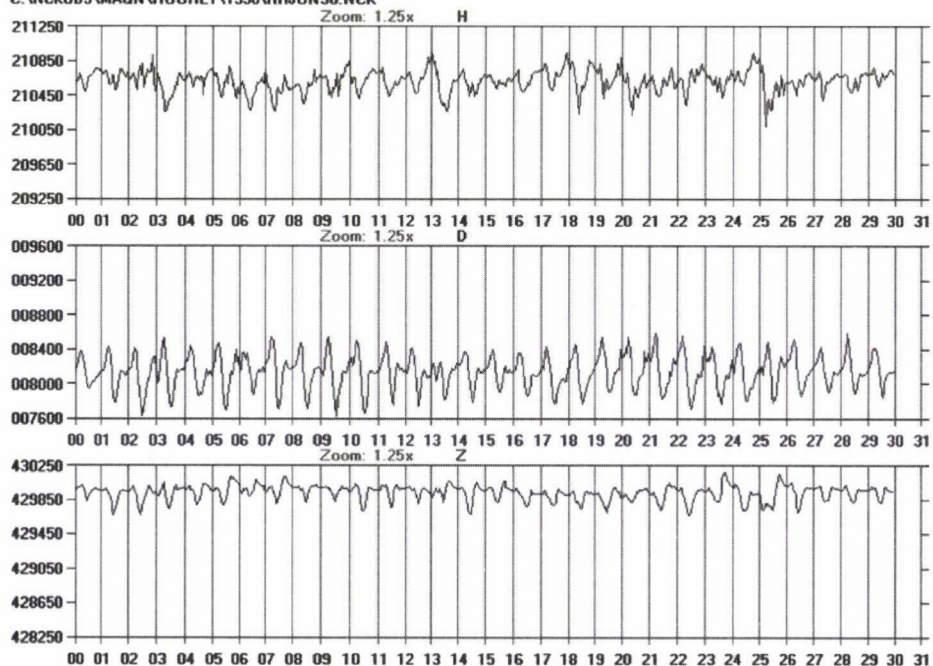
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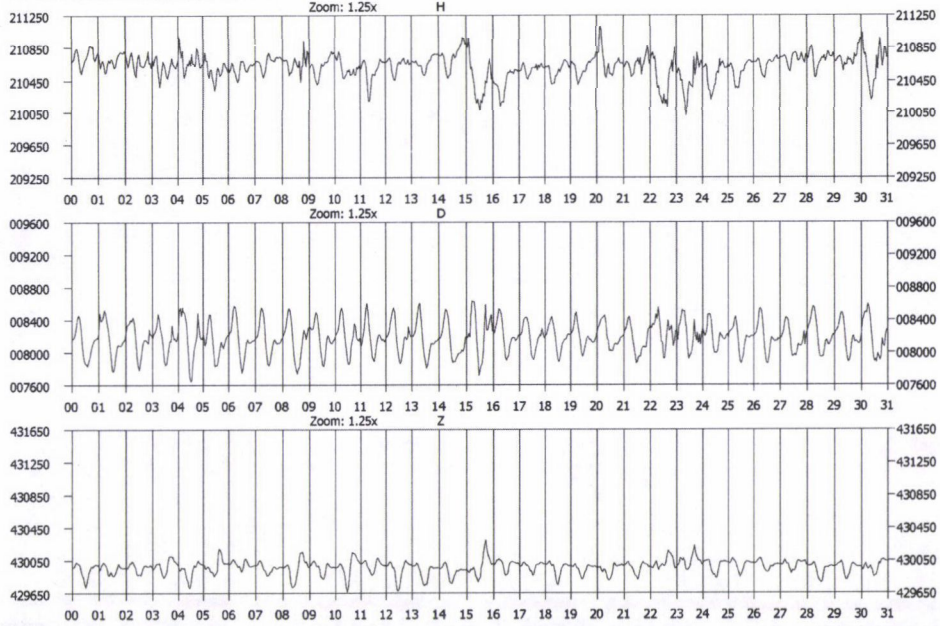
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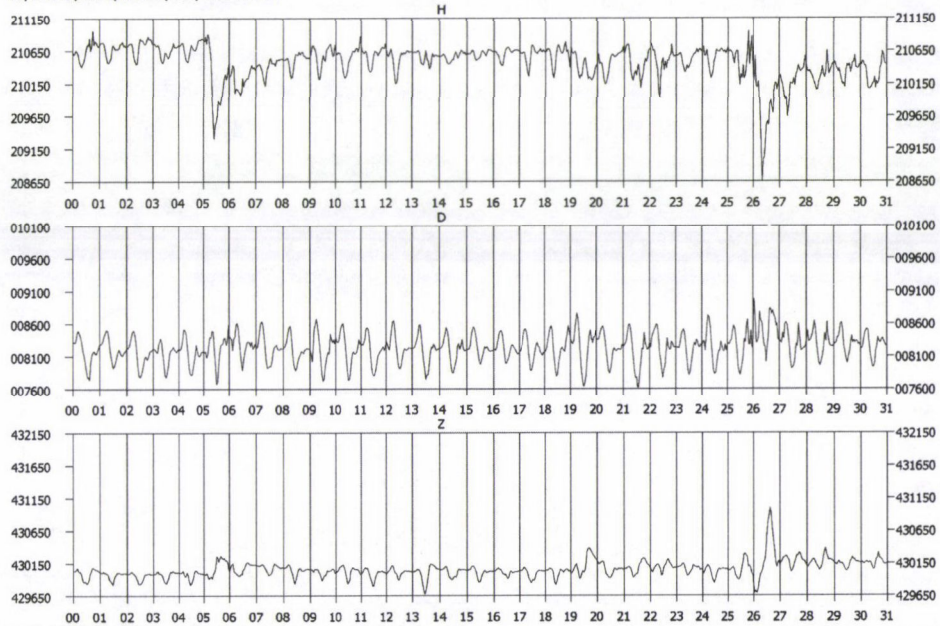
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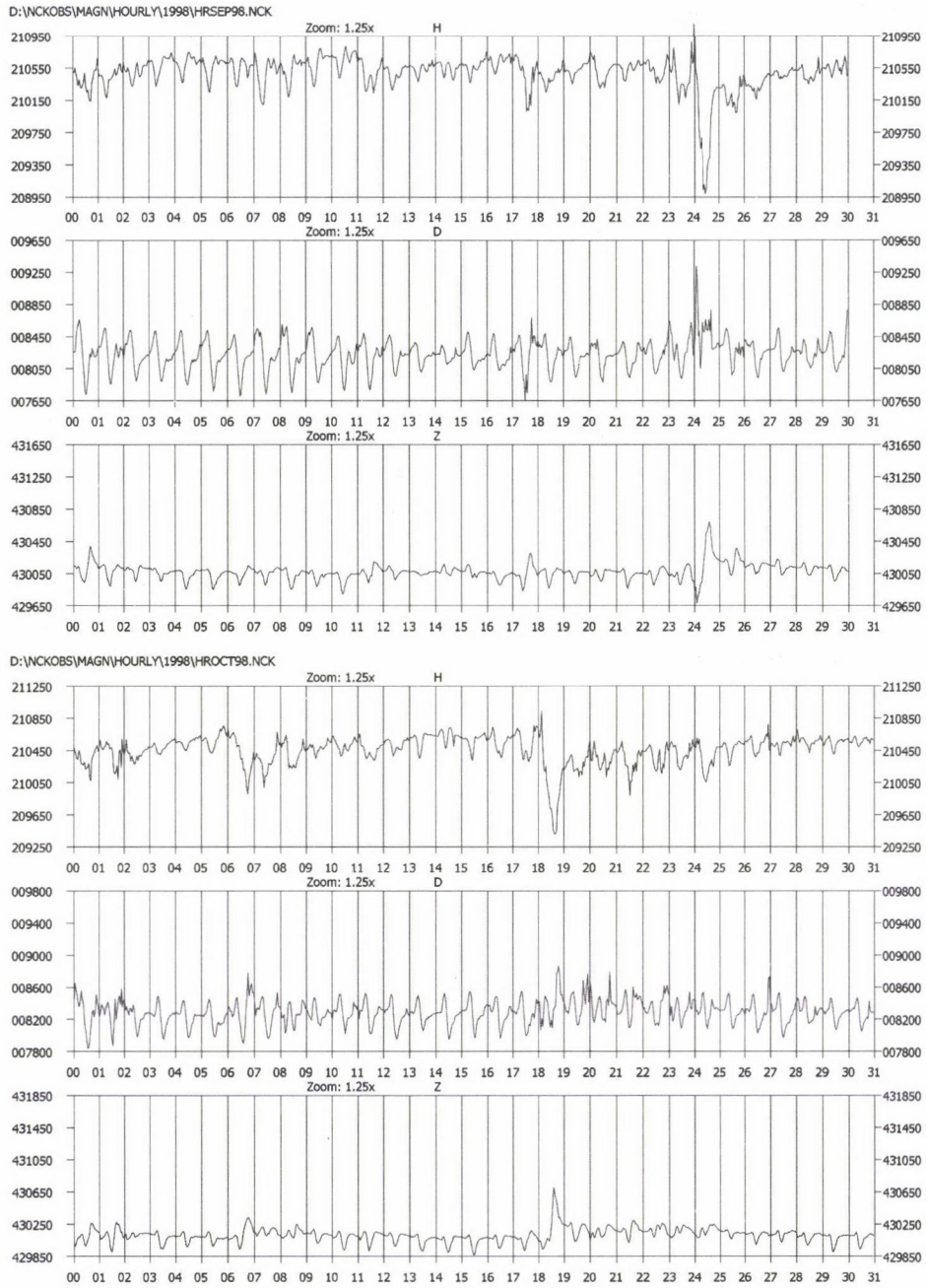


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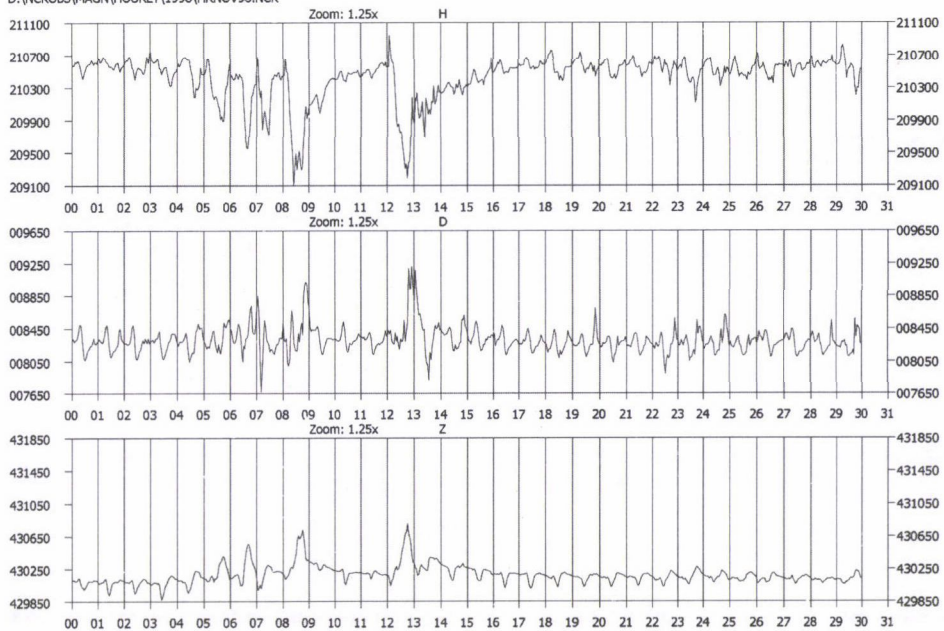


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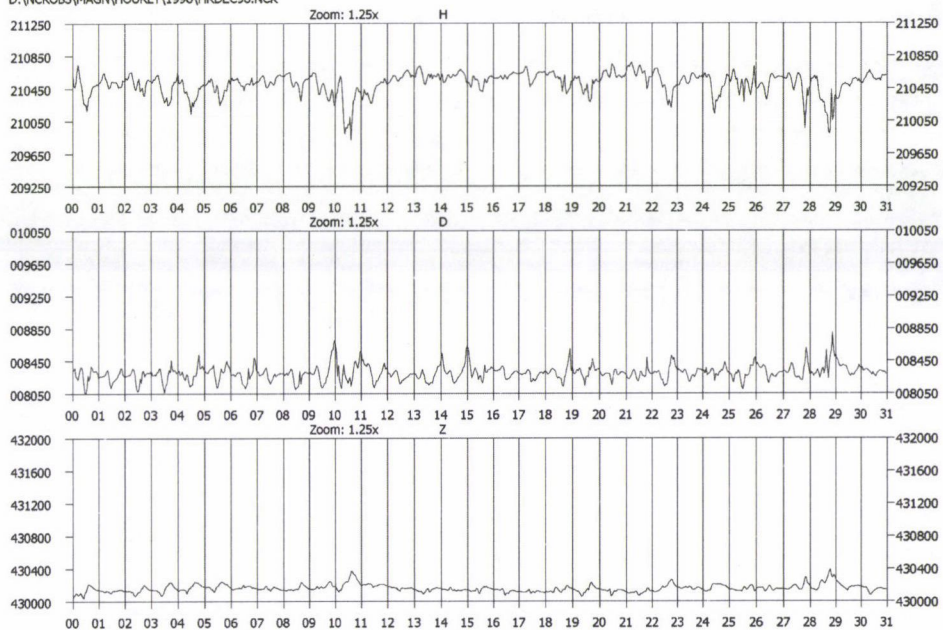




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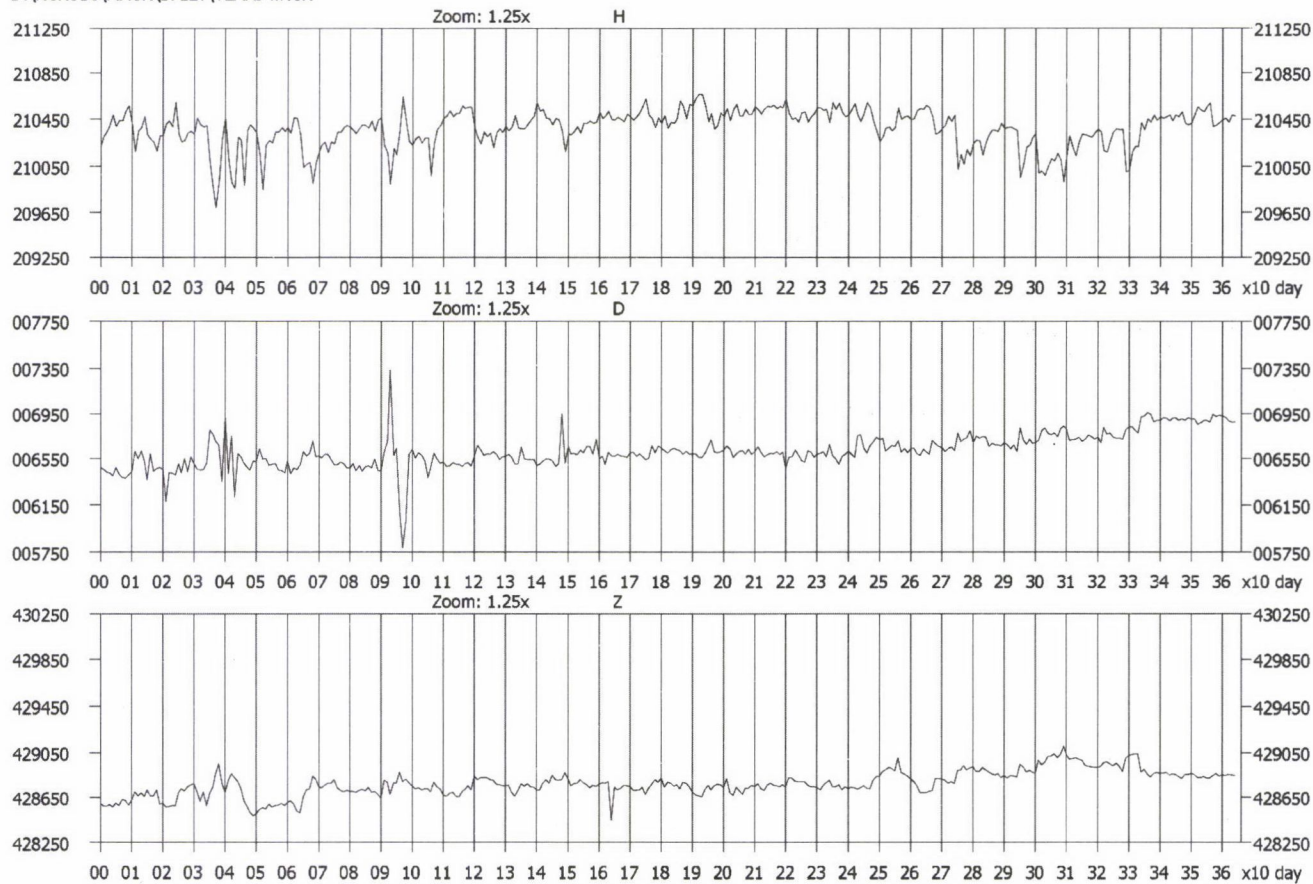


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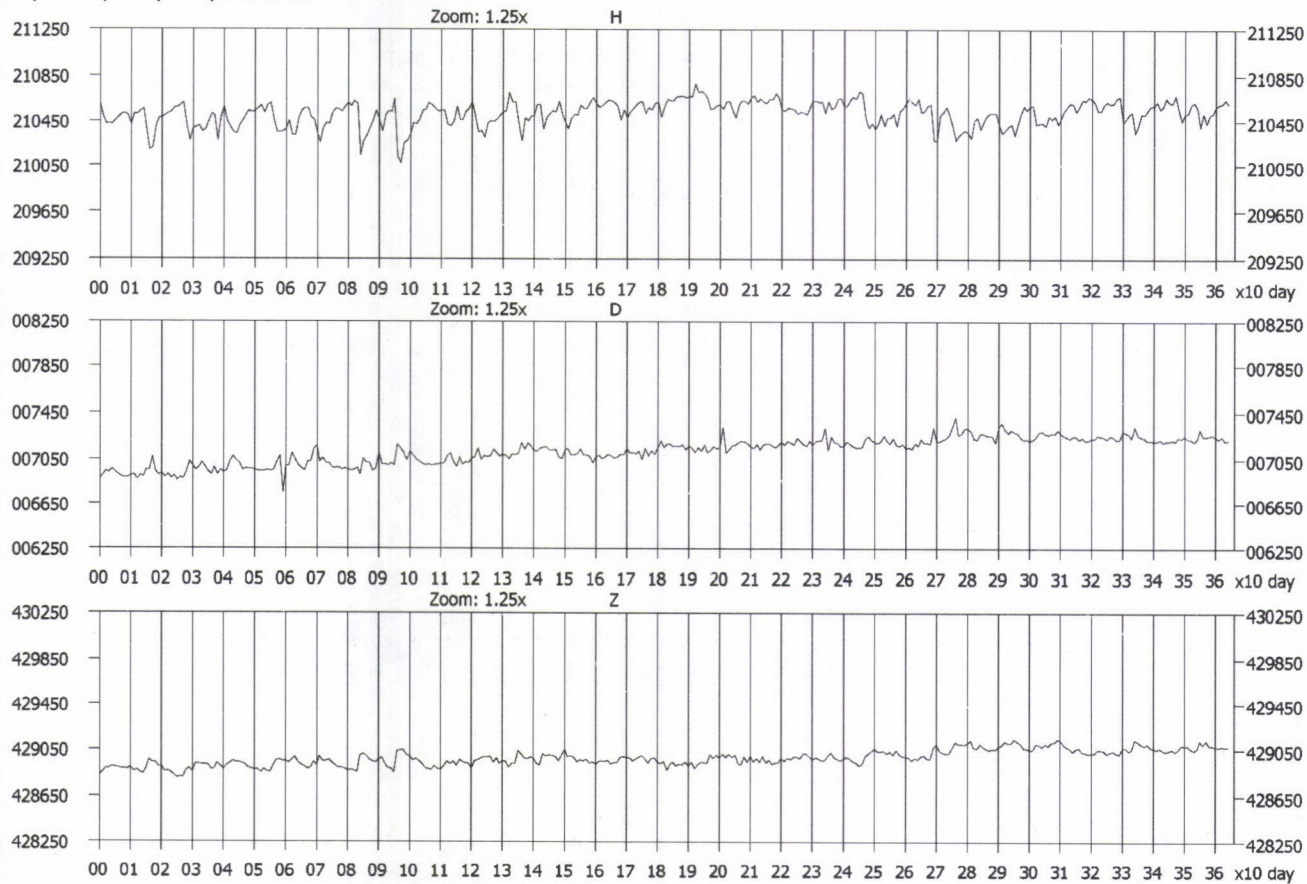
Daily mean values of H , D , Z
1994–1998

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Daily mean values 1994

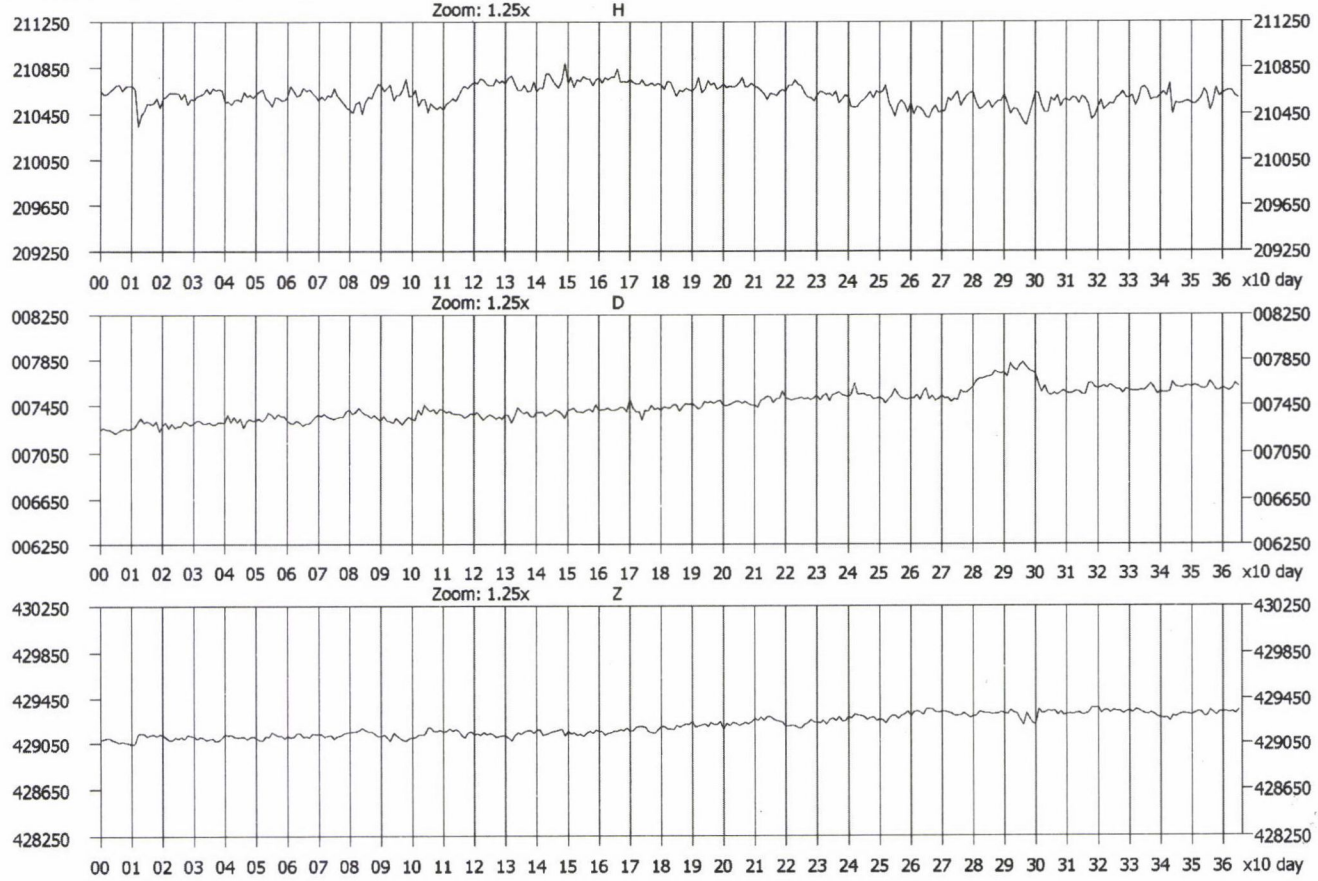
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Daily mean values 1995

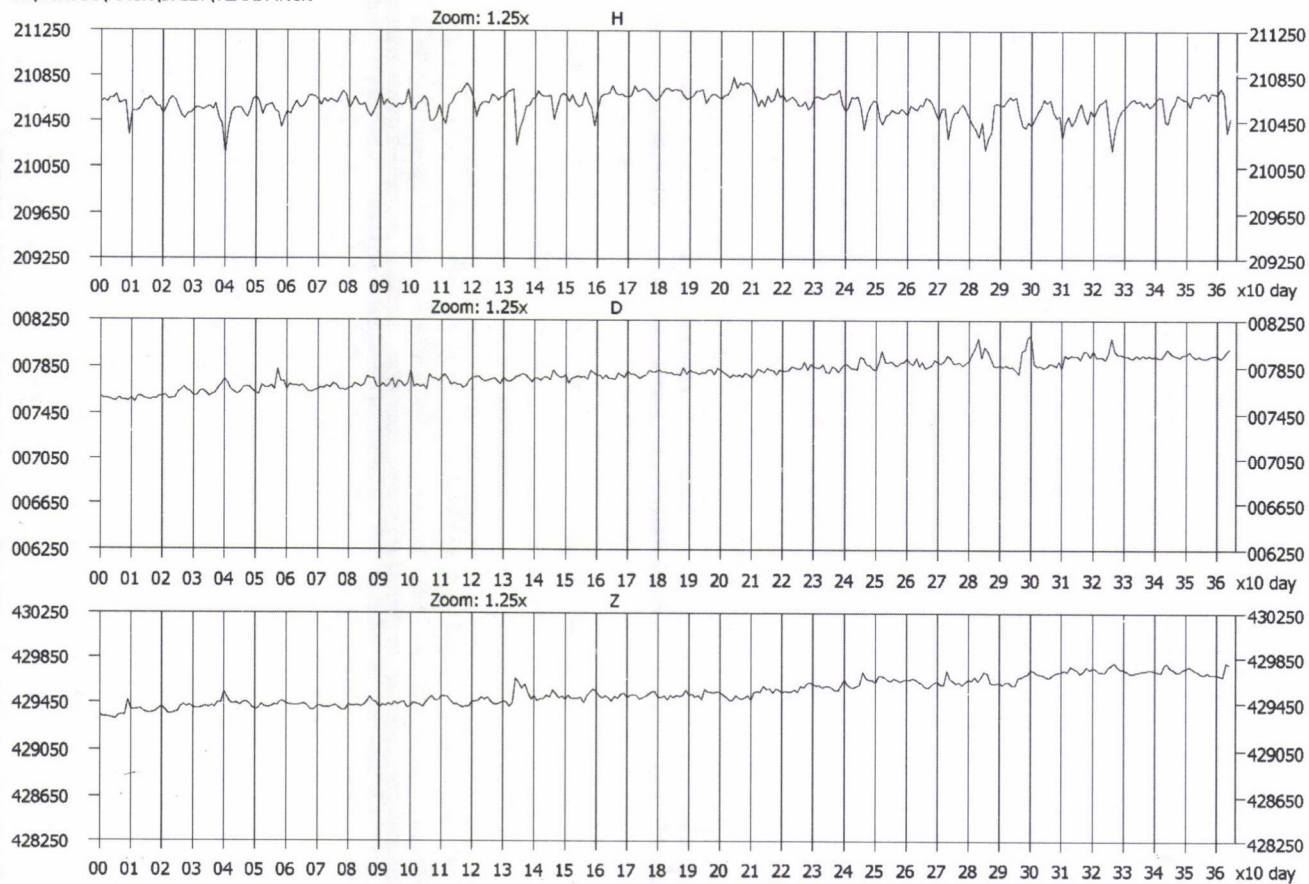
DAILY MEAN VALUES 1995

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Daily mean values 1996

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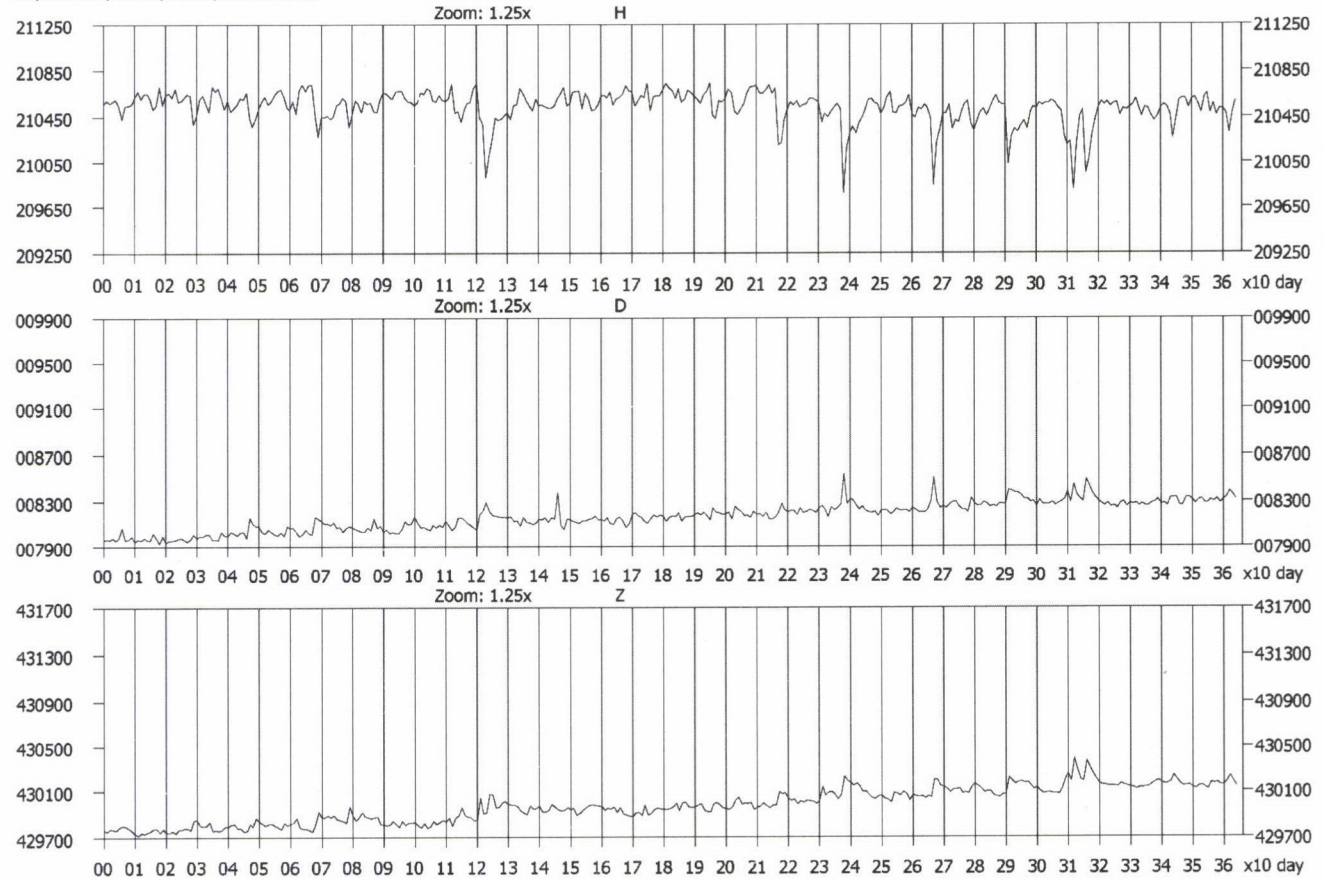


Daily mean values 1997

DAILY MEAN VALUES 1997

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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
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940202	02334340	19	940316	43334544	30
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940204	21213553	22	940318	44333324	26
940205	43344456	33	940319	43332133	22
940206	64356676	43	940320	33112344	21
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940412	43333455	30	940524	34243333	25
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940414	43343543	29	940526	12333213	18
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951018	10143566	26	951129	42222511	19
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960329	22111332	15	960510	02012121	9
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980108	00232244	17	980219	11120243	14
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980118	20323210	13	980301	43223434	25
980119	01001222	8	980302	42333343	25
980120	13113556	25	980303	31000031	8
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980328	33121224	18	980509	03301321	13
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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. nT	Sign		
	GMT	GMT	GMT		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