UPPER ATMOSPHERE PHYSICS DATA OBTAINED AT SYOWA STATION IN 1995

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1. Introduction

This data book summarizes upper atmosphere physics data acquired by the 36th Japanese Antarctic Research Expedition (JARE-36) with the "Upper Atmosphere Physics Monitoring (UAPM) System" at Syowa Station in 1995. Observation items are as follows:

1) Geomagnetism : • H-, D- and Z-components of magnetic variations
• Total force of the geomagnetic field
• H-, D- and Z-components of magnetic pulsations

2) ELF-VLF wave : • Intensities at 0.35, 0.75, 1.2, 2, 4, 8, 30, 60 and 95 kHz
• Wide-band (0-10 kHz) signal of ELF-VLF emissions

3) Ionosphere : • Cosmic noise absorption at 30 MHz observed with a broad-beam riometer

4) Aurora : • All-sky cameras :
Film type : Panchromatic images recorded on color films
CCD digital type : Panchromatic digital images and intensity-time profiles along magnetic meridian
• Scanning photometers :
Meridian-scanning record at the following three wavelengths
557.7 nm (OI), 630.0 nm (OI) and 486.1 nm (H_β)

An outline of the observation system is given in Section 2. Section 3 describes specifications of the observation instruments and the data acquisition systems. Observation periods are also listed in Section 3. Format of the compiled digital data is shown in Section 4. Summary plots in the period of January 1-December 31, 1995 are given in Appendix.

All-sky camera observation data, magnetograms and summary plots of the monitoring data are available to users on request. The request should be addressed to:

World Data Center C2 for Aurora
National Institute of Polar Research
9-10, Kaga 1-chome, Itabashi-ku,
Tokyo 173, Japan.

Digital and analog data described here are available to researchers who will do collaborative studies with the upper atmosphere physics group of NIPR. The request should be addressed to:

Upper Atmosphere Physics Research Division
National Institute of Polar Research
9-10, Kaga 1-chome, Itabashi-ku,
Tokyo 173, Japan.

2. Upper Atmosphere Physics Monitoring (UAPM) System

A real-time digital data acquisition system for upper atmosphere physics observation was constructed at Syowa Station in January 1981 (Sato *et al.*, 1984). Data obtained from the system have been collected and published annually in the JARE Data Reports (Upper Atmosphere Physics) (Sato *et al.*, 1984, 1991 ; Fujii *et al.*, 1985, 1994; Sakurai *et al.*, 1985; Ono *et al.*, 1986, 1993; Yamagishi *et al.*, 1987; Kikuchi *et al.*, 1988; Miyaoka *et al.*, 1990; Kadokura *et al.*, 1992; Yamazaki *et al.*, 1995; Tonegawa *et al.*, 1996; Obara *et al.*, 1996). This report is the 15th of this series.

A block diagram of the system, including other ground observations, is shown in Fig. 1. The sensors for measuring weak natural electromagnetic waves such as ELF-VLF emissions, the three components of ULF magnetic pulsations and cosmic radio noise absorption (CNA) have been placed at a remote station on West Ongul Island, located about 5 km from Syowa Station in order to avoid man-made electromagnetic interference. Data of the magnetic pulsations and CNA are transmitted continuously to Syowa Station by a PCM telemeter in VHF band. Wide-band signals of ELF-VLF emissions are transmitted to Syowa Station through an FM telemeter in UHF band.

At the remote station, the electric power which drives all the instruments has been supplied by a solar battery system with maximum output power of 530 W since February 1985. An additional solar battery system with maximum power of 365 W was installed in January 1987 to reinforce the original battery system. The solar battery system consists of eighteen rechargeable car batteries (200 Ah each), five solar panels and three controllers in total. During winter when no sunlight is available, these batteries are charged manually about once a month by using a 10 kVA diesel-engine dynamo, which was installed in 1992 instead of the previous 16 kVA one.

The fluxgate and proton magnetometer sensors are placed at Syowa Station on East Ongul

Island, about 150 m apart from the Data Processing Building. All the auroral photometric instruments are placed on the roof of the building, and the data acquisition facilities are installed inside the building. All the outputs obtained from the observation instruments except the auroral photometric ones are transferred to the matrix terminal board and then recorded with pen recorders, analog data recorders and a computer system. These data have been recorded simultaneously with two sets of the TEAC DR-200 digital data logger systems since January 1987. An 8 mm video tape recorder is used to record wide-band VLF emissions, and 24-hour data can be stored on one volume of 8 mm video tape.

Universal time (UT) is supplied from a precise time-keeping system. This system consists of an NNSS satellite timing receiver, a quartz frequency standard with a stability of 2×10^{-11}/day, and time code generators. The time code generators supply the IRIG-A, -B and slow codes for analog data recorders and the 36-bit BCD code for the digital recording systems, respectively. The absolute accuracy of this system is estimated to be about 1 ms.

3. Specifications of Instruments

3.1. Geomagnetism

(1) *Magnetogram*

Magnetic variations were measured by a three-axis fluxgate magnetometer. Full scale ranges were +1250 to -3750 nT for H-component and ± 2500 nT for D- and Z- components, respectively, with the frequency response of DC–2 Hz and noise levels less than 0.5 nT. The magnetometer data were recorded in digital form at the sampling rate of 1 Hz. The H-component data were also recorded on a chart recorder and an R-950L long-term analog data recorder.

(2) *Total force of the geomagnetic field*

Due to the prolonged trouble with the proton magnetometer since January 1991, the total force observations were made only about once per month in 1995, using the other portable proton magnetometer, which was unable to be linked with the UAPM system. The results are listed in Table 1.

(3) *ULF magnetic pulsations*

The H-, D-, and Z-components of ULF magnetic pulsations are detected by three sets of search coil magnetometers. The search coil sensors have copper wires (0.4 mmϕ, 40000 turns each) wound around permalloy cores (1 cm in diameter × 100 cm in length). Measurable intensity range of the magnetometer is 0.001–5 nT/s and the frequency response is 0.001–3 Hz. The search coil magnetometers are installed at the remote station on West Ongul Island. The output signals transmitted by the PCM telemeter are recorded on an R-950L long-term analog data recorder, a chart recorder and a digital data recorder. The sampling frequency of the digital data is 1 Hz for each component.

(4) *Base line of the magnetic field and K-index*

Base line values of the magnetic field were observed about once per month during a magnetically quiet day. K-indices are calculated for every 3-hour interval measuring the maximum deviations of the H- and D-component magnetic fields from the quiet-day baselines. The definition of the K-indices at Syowa Station is as follows:

K-index		Deviation	K-index		Deviation
0	:	0 - 25 nT	5	:	350 – 600 nT
1	:	25 – 50	6	:	600 – 1000
2	:	50 – 100	7	:	1000 – 1660
3	:	100 – 200	8	:	1660 – 2500
4	:	200 – 350	9	:	2500 and more

The ordinary magnetogram is also available on chart papers with a recording speed of 5 cm/hr. The sensitivity of each component on the chart papers is about 100 nT/cm. Table 1 and 2 give the baseline values and K-indices at Syowa Station in February 1995 – January 1996. Inquiries or requests for the data copies of the magnetic field measurements should be addressed to World Data Center C2 for Aurora in NIPR.

3.2. ELF-VLF waves

The natural ELF-VLF wave receiving system at the remote station has consisted of a triangle-shaped three turn loop antenna (10 m in height, 20 m in the bottom side), a pre-amplifier and a main amplifier with gains of 60 and 40 dB, respectively. The ELF-VLF wave intensities at the frequency bands of 0.35, 0.75, 1.2, 2, 4, 8, 30, 60, 95 kHz were obtained from wide band waveforms using a 9-channel filter bank and detectors. The ELF-VLF emissions within the intensity range of 10^{-17} to 10^{-13} W/m^2 Hz were detectable with this system. These data were recorded continuously in digital form at the sampling rate of 1 Hz. Some of the wide-band ELF-VLF signals up to 10 kHz were recorded on 8 mm video tape recorders. The wide-band recording was executed during 0900-1300 UT on Sunday - Friday.

3.3. Ionosphere

Cosmic noise absorption at 30 MHz was observed with a broad-beam riometer, which has been installed at the remote station on West Ongul Island since 1981. Its beam half-width is 60°. Used receiver is made by La Jolla Science, and bandwidth and time constant are 150 kHz and 0.25 s, respectively. The riometer data were recorded in digital form at the sampling rate of 1 Hz in the UAPM system.

Data of ionospheric vertical sounders, broad-beam riometers (20 and 30 MHz), HF field strength receivers (8 and 10 MHz) and the VHF auroral radar (50 and 112 MHz) were recorded with other observation systems at Syowa Station, and the observational results have been published in another JARE Data Reports(Ionosphere). Inquiries and requests for the data copies are to be addressed to:

World Data Center C2 for Ionosphere
Communications Research Laboratory
Ministry of Posts and Telecommunications
2-1, Nukui-Kitamachi 4-chome, Koganei-shi,
Tokyo 184, Japan.

3.4. Aurora

(1) *All-sky camera*

CCD digital type and film-type all-sky cameras were used for all-sky observations of aurora in 1995. The CCD type camera installed in 1994 (Obara *et al.*, 1996) was not operated from March 5 through early July due to failure in the work station for control of the CCD camera. During that period all-sky observation was made by the traditional film-type camera which uses KODAK-EASTMAN 5226, ISO-500, 400 ft, 35 mm color films. The observation was switched to the CCD type camera after repair of its failure, continuing to October 6. A digital image obtained by the CCD type camera has 1000(H) × 1018(V) pixels with 12 bit resolution. Exposure time was variable from 1 to 53 s for the CCD type camera but fixed to 6 s for the film-type camera, while observation interval was 10 or 30 s for both the cameras. A fish-eye lens of F/1.4 is used in the film-type observation. Observation lists for the CCD-type and the film-type are given in Table 3(a) and 3(b), respectively. Inquiries or requests for the all-sky data should be addressed to World Data Center C2 for Aurora in NIPR.

(2) *Meridian-scanning photometer*

Auroral emissions at the wavelengths of 557.7 nm (OI), 630.0 nm (OI) and 486.1 nm (Hβ) were observed by a meridian-scanning photometer installed in 1987. The interference filter for Hβ was tilted with 1 s period, measuring the Doppler effect of the auroral Hβ emission. The field of view of the photometer is 3° for OI 557.7 nm and 630.0 nm, and 5° for Hβ. A scan along a meridian from the poleward horizon to the equatorward horizon requires 30 s. Observations were carried out during clear nights from March 6 until September 27 in 1995. Calibration using a standard light source was executed at every observation night. The meridian-scanning photometer data were recorded with a digital data logger (TEAC DR-200) at a sampling frequency of 10-25 Hz through a line-approximate logarithmic amplifier, and monitored with a pen-recorder (6 ch RECTI-GRAPH). Due to a trouble in the instrument, both scanning and tilting angle data were not recorded.

4. Compiled Digital Tape Format

Data have been digitally recorded continuously since 1981. A similar recording system has been used in Iceland for the geomagnetic conjugate observations. The specifications of the compiled digital tapes are as follows:

Tracks	: 9
Record density	: 6250 BPI
Record format	: FB
Block length	: 28848 bytes
Logical record length	: 48 bytes
Label	: Non-label
Filing	: Multi-file (1 file/day)

24 kinds of upper atmospheric data are recorded every 1 s in the following sequence:

Word No.	Observation item	Word No.	Observation item
1	H-component of magn. field	13	VLF 8 kHz
2	D-component of magn. field	14	VLF 30 kHz
3	Z-component of magn. field	15	VLF 60 kHz
4	H-component of ULF waves	16	VLF 95 kHz
5	D-component of ULF waves	17	NA
6	Z-component of ULF waves	18	NA
7	CNA (30 MHz)	19	NA
8	VLF 350 Hz	20	NA
9	VLF 750 Hz	21	NA
10	VLF 1.2 kHz	22	NA
11	VLF 2 kHz	23	NA
12	VLF 4 kHz	24	NA

Words 17-24 are dummy words. Each word, 12 bit A/D converted value, is recorded in the 2 byte binary form of signed 2's complement. A set of these 24 words makes a logical record of 48 bytes; the 10-min data make a block of 28848 bytes. A file contains one day of data (144 blocks) and a volume contains one month of data (28-31 files), as shown in Fig. 3. At the beginning of each block, the starting time of the observation period is written in the following format (48 bytes):

Sequence	Item	
1	Year	(2 bytes)
2	Total day	(2 bytes)
3	Hour	(2 bytes)
4	Minute	(2 bytes)
5	Station code	(4 bytes)
6	Space	(36 bytes)

The magnetic field data recorded on a compiled tape can be transformed to physical quantities by the following relations:

H-component of the geomagnetic field variation (nT)	= DATA*2500/2048 – 1250
D- and Z-component of the geomagnetic field variation (nT)	= DATA*2500/2048
H-component of ULF waves (nT/s)	= DATA/141
D-component of ULF waves (nT/s)	= DATA/158
Z-component of ULF waves (nT/s)	= DATA/316

For CNA and VLF data, individual calibration values are required to obtain physical values from the recorded data. Inquiries on these calibration values should be addressed to the Upper Atmosphere Physics Research Division of NIPR. For more detailed information on the compiled data, see Uchida *et al.* (1988). These compiled data are also recorded on an Optical Disk (OD) at the sampling rate of 0.5 Hz together with the data from three Icelandic stations for conjugate studies. One volume of the OD can store the data obtained at the four stations during one year. Softwares to handle the OD data are also available to researchers. Details of the OD conjugate data base are described in Yamagishi (1990).

A computer system of the Information Science Center is available to collaborative researchers of NIPR. The center has also been providing various kinds of software such as tape-to-tape copy, displays and spectrum analysis program to the researchers.

Acknowledgments

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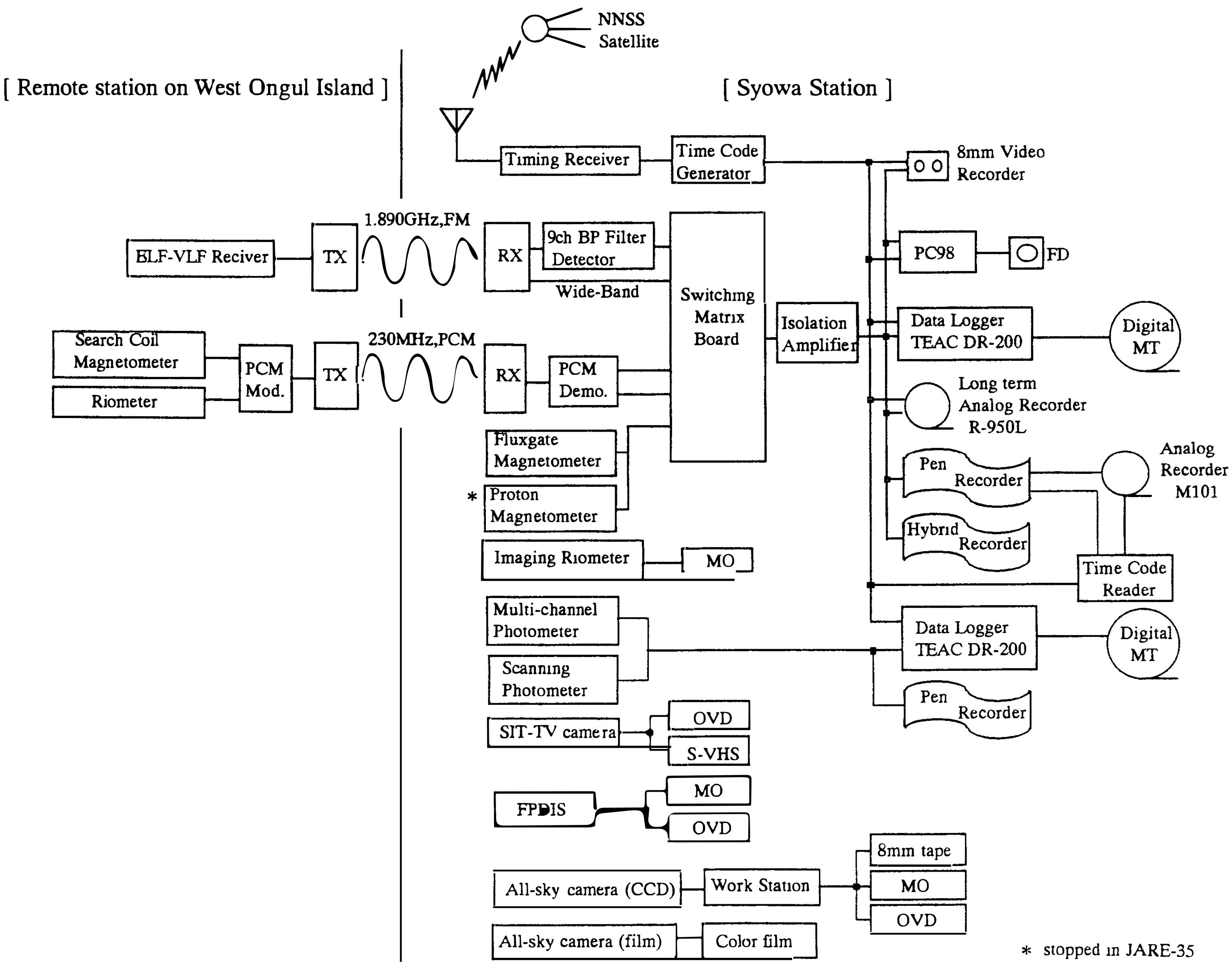


Fig. 1. Block diagram of the "Upper Atmosphere Physics" monitoring system at Syowa Station in 1995.

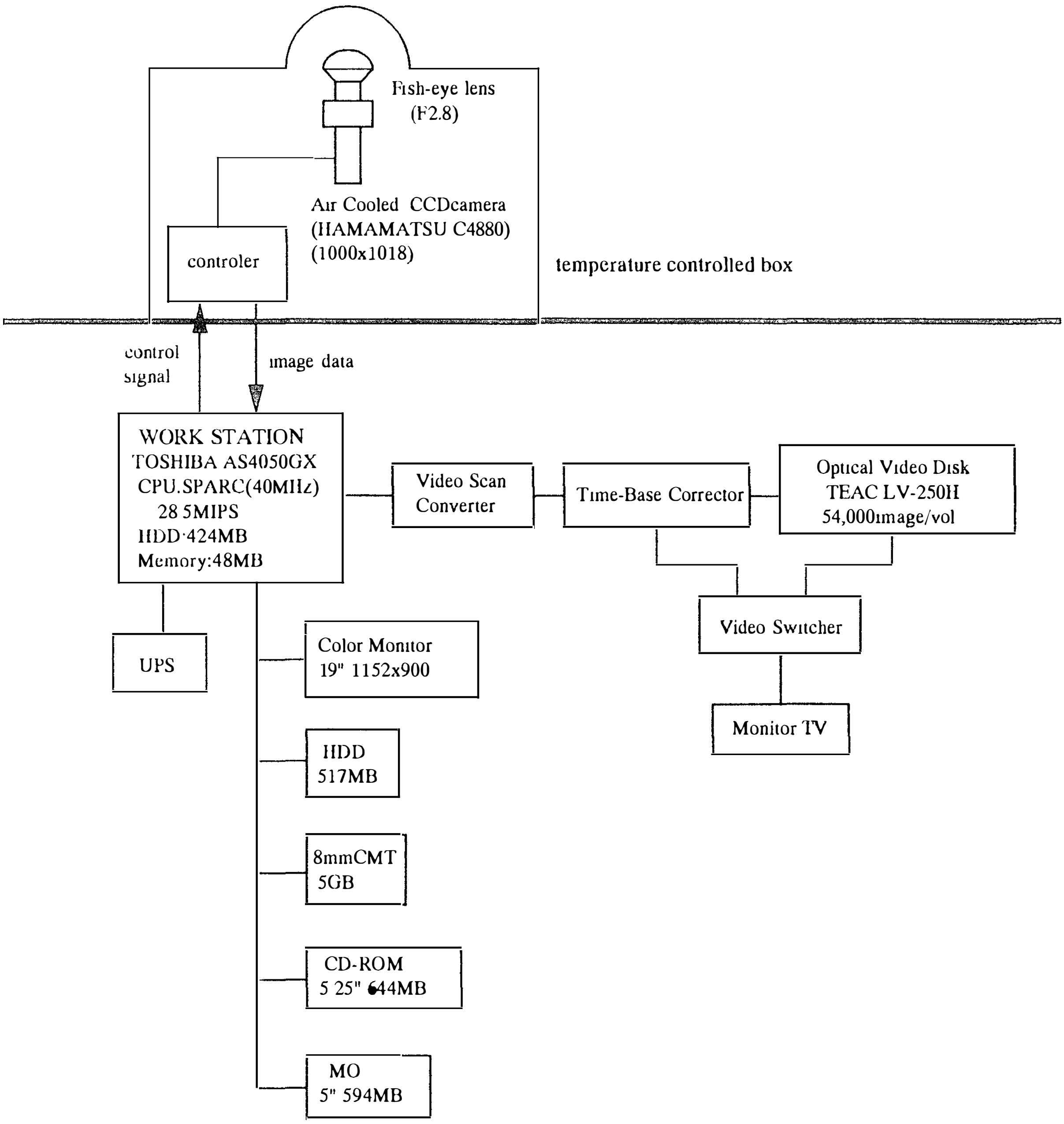


Fig. 2. Block diagram of the CCD all-sky camera observation system at Syowa Station in 1995.

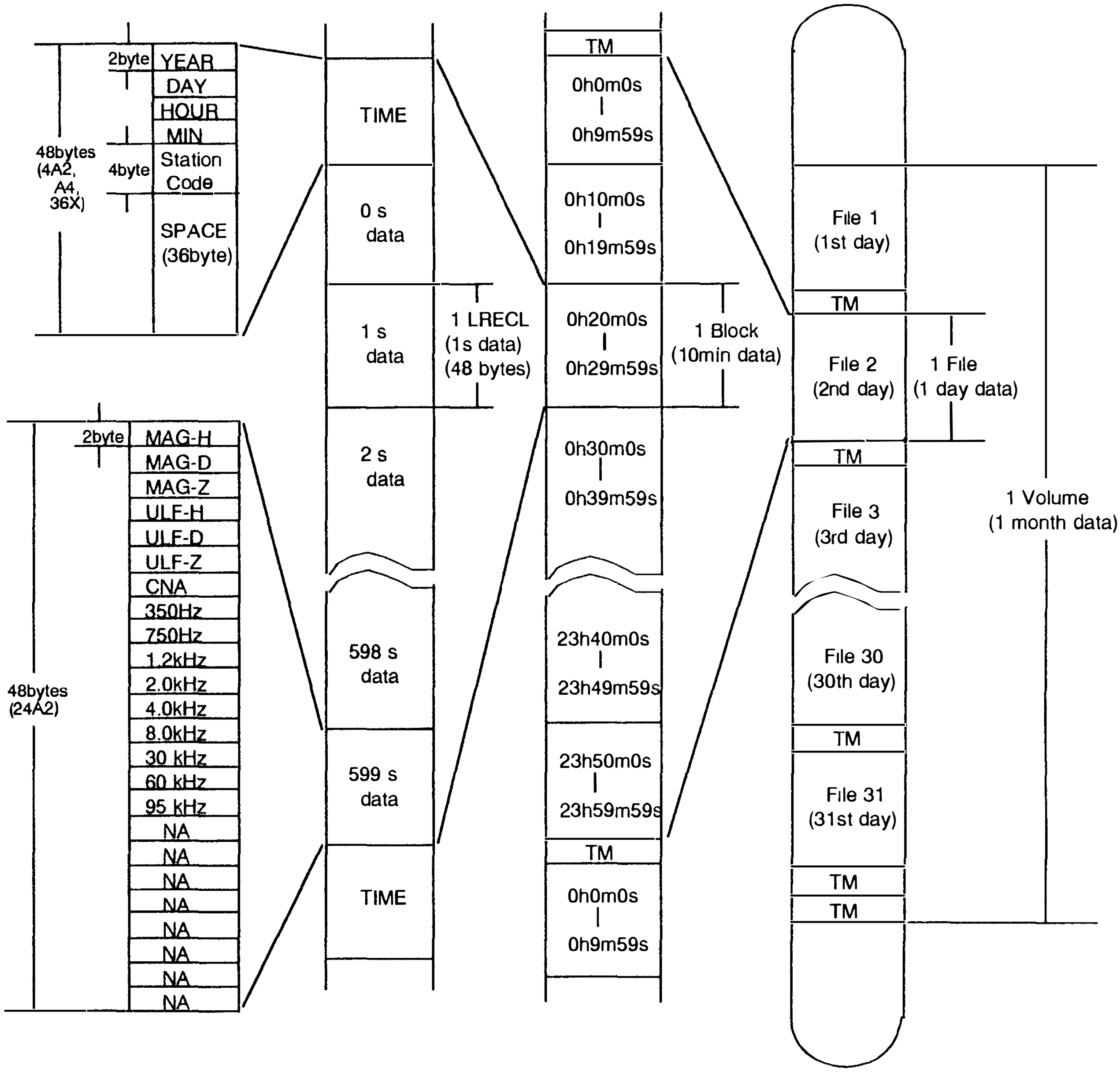


Fig. 3. The structure of the compiled digital tape format for Syowa Station in 1995.

Table 1. Baseline values of the geomagnetic field at Syowa Station in Feb. 1995 - Jan. 1996.

DATA	TIME (UT)	TOTAL INT. (nT)	HORI-ZONAL INT. (nT)	VERTICAL INT. (nT)	DECLINATION	DIP ANGLE
FEB. 23 1995	10h 21m	43627. 1	19140. 6	-39204. 1	-47° 44. 4′	-63° 58. 6′
	10h 47m	43625. 2	19089. 8	-39226. 7	-47° 44. 4′	-64° 3. 0′
	11h 39m	43620. 5	19084. 4	-39224. 2	-47° 43. 4′	-64° 3. 3′
	12h 00m	43622. 8	19083. 1	-39227. 4	-47° 42. 6′	-64° 3. 5′
	11h 27m	43623. 9	19099. 5	-39220. 6	-47° 43. 7′	-64° 2. 1′
MAR. 23	10h 32m	43622. 3	19096. 7	-39220. 2	-47° 53. 3′	-64° 2. 3′
	11h 15m	43614. 8	19089. 1	-39215. 5	-47° 51. 8′	-64 2. 7′
	12h 27m	43631. 0	19084. 2	-39235. 9	-47° 49. 1′	-64° 3. 7′
	12h 56m	43639. 8	19096. 9	-39239. 5	-47° 48. 4′	-64° 2. 9′
	11h 33m	43627. 0	19091. 7	-39227. 8	-47° 50. 6′	-64° 2. 9′
APR. 19	10h 33m	43635. 9	19108. 6	-39229. 5	-47° 50. 2′	-64° 1. 8′
	10h 48m	43639. 1	19109. 5	-39232. 6	-47° 50. 8′	-64° 1. 8′
	11h 17m	43639. 6	19111. 9	-39231. 9	-47° 49. 9′	-64° 1. 6′
	11h 38m	43639. 0	19110. 3	-39232. 2	-47° 50. 3′	-64° 1. 7′
	11h 34m	43638. 4	19110. 1	-39231. 6	-47° 50. 3′	-64° 1. 7′
MAY. 26	11h 32m	43633. 2	19115. 0	-39223. 3	-47° 48. 7′	-64° 1. 1′
	12h 08m	43645. 5	19105. 6	-39241. 7	-47° 48. 3′	-64° 2. 4′
	12h 47m	43640. 6	19110. 2	-39233. 9	-47° 46. 8′	-64° 1. 8′
	13h 12m	43643. 4	19117. 5	-39233. 5	-47° 46. 8′	-64° 1. 3′
	12h 25m	43640. 7	19112. 1	-39233. 1	-47° 47. 6′	-64° 1. 6
JUN. 30	10h 18m	43645. 2	19130. 5	-39229. 1	-47° 47. 8′	-64° 0. 2′
	10h 49m	43612. 4	19101. 9	-39206. 7	-47° 47. 3′	-64° 1. 5′
	11h 15m	43635. 8	19118. 1	-39224. 7	-47° 47. 9′	-64° 0. 9′
	11h 42m	43644. 8	19121. 2	-39233. 3	-47° 47. 1′	-64° 1. 0′
	11h 31m	43634. 6	19117. 9	-39223. 5	-47° 47. 5′	-63° 0. 9′
JUL. 30	10h 54m	43625. 0	19126. 1	-39208. 8	-47° 50. 0′	-63° 59. 8′
	11h 31m	43628. 4	19134. 7	-39208. 4	-47° 50. 2′	-63° 59. 2′
	12h 24m	43628. 5	19129. 1	-39211. 3	-47° 50. 2′	-63° 59. 7′
	12h 55m	43628. 0	19118. 9	-39215. 7	-47° 50. 6′	-64° 0. 6′
	11h 41m	43627. 5	19127. 2	-39211. 1	-47° 50. 2′	-63° 59. 8′

DATA	TIME (UT)	TOTAL INT. (nT)	HORI-ZONAL INT. (nT)	VERTICAL INT. (nT)	DECLINATION	DIP ANGLE
AUG. 31 1995	11h 49m	43620.4	19126.6	-39203.5	-47° 51.3′	-63° 59.6′
	12h 15m	43620.7	19122.1	-39206.0	-47° 50.9′	-63° 60.0′
	12h 45m	43622.1	19123.0	-39207.1	-47° 51.4′	-63° 60.0′
	13h 08m	43622.8	19121.4	-39208.7	-47° 51.5′	-64° 0.1′
	12h 29m	43621.5	19123.3	-39206.3	-47° 51.3′	-63° 59.9′
SEP. 22	11h 34m	43618.8	19125.2	-39202.3	-47° 52.2′	-63° 59.6′
	12h 03m	43622.0	19119.5	-39208.7	-47° 52.0′	-64° 0.3′
	12h 39m	43619.5	19118.4	-39206.5	-47° 51.9′	-64° 0.3′
	13h 11m	43619.6	19117.0	-39207.2	-47° 52.0′	-64° 0.4′
	12h 22m	43620.0	19120.1	-39206.2	-47° 52.0′	-64° 0.1′
OCT. 25	12h 20m	43638.0	19127.7	-39222.5	-47° 51.1′	-64° 0.2′
	12h 55m	43644.2	19121.3	-39232.5	-47° 50.0′	-64° 1.0′
	13h 49m	43645.2	19131.2	-39228.9	-47° 50.5′	-64° 0.1′
	14h 26m	43648.0	19140.7	-39227.4	-47° 51.5′	-63° 59.4′
	13h 38m	43643.9	19130.2	-39227.8	-47° 50.8′	-64° 0.2′
NOV. 19	10h 21m	43607.1	19130.6	-39186.7	-47° 51.9′	-63° 58.7′
	10h 39m	43614.0	19132.8	-39193.3	-47° 51.6′	-63° 58.8′
	11h 12m	43614.6	19129.9	-39195.4	-47° 52.3′	-63° 59.1′
	11h 29m	43613.6	19133.2	-39192.7	-47° 52.8′	-63° 58.7′
	11h 25m	43612.3	19131.6	-39192.0	-47° 52.2′	-63° 58.8′
DEC. 29	10h 10m	43595.0	19134.5	-39171.4	-47° 54.8′	-63° 57.9′
	10h 26m	43592.2	19130.1	-39170.4	-47° 54.8′	-63° 58.2′
	10h 46m	43594.6	19127.7	-39174.2	-47° 54.8′	-63° 58.5′
	11h 07m	43595.3	19128.6	-39174.6	-47° 54.5′	-63° 58.4′
	10h 22m	43594.3	19130.2	-39172.6	-47° 54.7′	-63° 58.3′
JAN. 24 1996	12h 00m	43586.8	19094.9	-39181.6	-47° 52.9′	-64° 1.1′
	12h 26m	43589.9	19097.6	-39183.7	-47° 51.9′	-64° 1.0′
	13h 30m	43597.4	19109.5	-39186.3	-47° 51.5′	-64° 0.2′
	13h 49m	43597.8	19107.1	-39187.9	-47° 51.7′	-64° 0.4′
	13h 26m	43593.0	19102.3	-39184.9	-47° 52.0′	-64° 0.7′

Table 2. K-indices at Syowa Station in Feb. 1995 - Jan. 1996.

1995 1996

	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY
1	5432 2333	5644 3466	1110 0256	0000 0000	6645 4465	6542 1023	4121 1000	4010 0021	2111 0044	6663 3355	2211 4445	1112 1133
2	4533 4445	4643 3424	5622 3212	5542 4657	5533 4355	4200 0001	2100 0121	2100 0014	4122 3345	3643 3433	5222 3332	3221 1235
3	5443 4464	5211 1125	1010 0000	7665 4556	4654 3256	5211 1104	3231 2122	4210 0012	5523 3456	2222 1222	3111 2235	3321 2112
4	6533 4434	4111 2456	1110 0003	6653 3455	4122 1113	4310 1211	2110 0134	1111 0004	6564 5556	1112 5422	5532 2223	1112 2222
5	3221 1322	4322 3333	4323 1134	7665 4466	4311 0105	1110 0001	1011 1111	5432 3445	5433 3326	4312 4436	4111 1122	3222 2224
6	4421 2323	2421 0111	3310 0025	7444 3345	4211 0022	1000 0011	2100 0023	6333 3325	4533 3437	5442 3344	1211 2222	53*1 1112
7	5421 1225	1111 1111	5764 5866	4544 4347	5111 0033	3300 0000	1001 0224	5533 3434	5653 3335	4332 3132	2111 2111	2121 1123
8	5666 4322	2211 0111	5554 3445	7633 3234	3320 0000	2201 1000	6532 2164	5755 3434	6443 3454	3311 2223	1211 0112	2110 1132
9	2331 0111	1332 1256	6544 3425	5533 2235	0011 0110	1001 2121	5433 3445	5633 3213	3543 3345	2211 1222	4532 3223	1111 1123
10	1121 1214	7542 2334	5645 3335	3311 2122	4422 1101	0000 0000	5653 2214	2212 2245	3542 1111	3321 1123	4322 0113	4211 1133
11	5363 3454	6452 2467	2433 2255	4311 1014	4330 0001	1000 0002	3331 2224	7543 2446	3532 3424	3211 1235	3311 1122	1211 1133
12	4422 2456	6643 3357	6632 2234	4221 1032	0011 0000	2000 0000	5202 2123	4412 1246	4533 3235	3422 3343	1221 1343	2111 1114
13	6563 4446	6545 4535	3520 0025	2121 1103	0000 0002	2110 0000	5532 1124	4443 3335	4322 2333	1111 2221	2210 0121	4765 4423
14	6533 5455	5543 3345	4200 0113	3420 0131	1001 1024	2001 0124	7544 3345	4221 1144	3211 1124	4221 1123	4321 0223	3223 4346
15	5523 2345	4333 2136	1100 1010	0110 3114	2221 1011	2111 1111	5542 2234	6545 4432	3111 1114	2111 1111	3221 3444	6422 3234
16	3322 1423	4532 2244	1111 0022	4564 5466	5511 2242	2011 2546	4531 1211	3233 3125	2311 2344	2210 1114	5553 3222	3221 2333
17	2231 2212	3221 1123	4111 0000	5654 2244	4411 1103	4443 3425	3222 3342	4422 2121	2431 1213	4421 1123	2233 2443	4412 2345
18	4422 2233	2121 1012	1111 1143	4312 2126	1543 2114	5422 2122	2101 1134	0011 0014	3313 3445	1111 1133	3111 2122	3531 2343
19	2411 1133	2111 0123	4421 0013	4443 2334	4663 5445	3322 2124	4221 1025	2011 0013	6743 1123	3421 1234	4221 1332	2221 2336
20	4322 2232	2111 1222	2421 1122	5444 2235	4554 3324	5413 2112	4221 0111	3331 1223	3534 3444	4221 1223	1221 2211	3332 3322
21	3322 1123	1111 0111	0100 0000	4411 0003	3333 2223	0121 1011	1011 0000	3111 1134	4232 3335	3111 1223	1221 1444	2233 2224
22	2202 1111	1211 1112	1111 1334	3324 4005	3422 2212	2321 1123	1001 2056	2111 0013	3321 2344	3221 2324	4442 3464	3211 2233
23	1222 1233	1112 2342	5334 3447	4211 2266	3333 2111	5201 0233	5652 1112	5412 3345	5543 3364	4221 1223	4322 1122	4111 1111
24	1221 0213	3221 1123	6552 2346	4654 3335	2111 1110	3443 3155	3110 2133	4421 1113	5111 3343	2211 1122	4344 4435	1111 2333
25	1222 1112	4220 1114	6532 2233	5633 2233	0011 2354	6421 0002	5553 2335	2321 0111	4431 1111	2211 1113	3323 3343	2221 1233
26	3342 3344	3133 4545	3423 2225	4211 3344	6532 2136	4211 1113	3411 1012	2222 1023	1111 0124	2211 1112	4532 2344	5311 1323
27	3533 3455	5133 3345	3463 3233	2221 1220	3231 0014	3311 0034	4421 0033	4332 4576	3310 1224	2124 4455	5222 2232	4221 2224
28	6454 2366	6542 2444	4334 2213	2331 1124	3221 2225	3100 0004	0011 1212	3453 3111	1210 0123	2323 2244	1220 1222	4321 1234
29		5542 2235	5211 3234	2111 1133	2000 1111	5300 0114	5423 2124	2111 1012	3211 1112	4332 2323	2110 1233	5453 3333
30		4411 3222	2001 2004	3653 4455	4323 3477	4001 0034	4311 1002	2111 1014	1111 4543	5332 1112	3220 0112	46*1 1116
31		3112 1114		5545 3465		1230 0005	2001 0023		6632 2445		2231 2232	5311 2233

Table 3(a). Observation list of the CCD-type all-sky camera at Syowa Station in 1995.

8m/m tape ID	OVD ID	OVD start	OVD end	Start day	Start date	Start time	End day	End dat	End time	Duration	Loss	Δt (sec)	texp (sec)
CCD950701	test obs.	19	196	183	95/07/02	03:37·00	183	95/07/02	05·00.00	1·23.00		30	10
CCD950702	941110	197	1616	183	95/07/02	13·48:00	183	95/07/02	22 46:00	8.58:00		30	15
CCD950703	941110	1617	3732	184	95/07/03	17:15:00	185	95/07/04	05:03·00	11:48:00		20	12
CCD950704	941110	3733	5854	185	95/07/04	13:48·00	186	95/07/05	05·03:00	15·15:00			
CCD950705-1	test obs	5907	7919	186	95/07/05	13:50:00	187	95/07/06	05·03:00	15.13·00			
CCD950705-2	test obs.			186	95/07/05	13:50.00	186	95/07/06	05·03.00	15:13.00			
CCD950706	test obs.	7920	7929	187	95/07/06	13·55:00	188	95/07/07	05:05:00	15.10:00			
CCD950719	941110	7930	9170	200	95/07/19	21:50:00	201	95/07/20	04·43·20	6·53 20		20	13
CCD950720	941110	9171	11095	201	95/07/20	16·10:00	202	95/07/21	04·43:00	12·33:00		20	13
CCD950721	941110	11096	12739	202	95/07/21	17:41·00	203	95/07/22	04:32·00	10.51:00		20	13
CCD950722	941110	12740	15323	203	95/07/22	14:17:00	204	95/07/23	04:38·00	14·21·00		20	13
CCD950723	941110	15324	17895	204	95/07/23	14·19:00	205	95/07/24	04:36 00	14.17·00		20	13
CCD950724	941110	17896	20455	205	95/07/24	14.21:00	206	95/07/25	04:34:00	14.13:00		20	13
CCD950725	941110	20456	23003	206	95/07/25	14·23:00	207	95/07/26	04·32:00	14·09:00		20	13
CCD950726	941110	23004	25539	207	95/07/26	14:25.00	208	95/07/27	04:33.00	14:08.00			
CCD950727	941110	25540	27000	208	95/07/27	14:25:00	209	95/07/28	01:15·00	10·50 00		20	13
CCD950729	950728	2	2480	210	95/07/29	14·35:00	211	95/07/30	04·21·00	13·46:00		20	13
CCD950730	950728	2481	4948	211	95/07/30	14:37:00	212	95/07/31	04:19:00	13:42:00		20	13
CCD950731	950728	4949	7393	212	95/07/31	14·40:00	213	95/08/01	04:15·00	13·35·00		20	13
CCD950801	950728	7394	9812	213	95/08/01	14:43:00	214	95/08/02	04·09:00	13:26:00		20	13
CCD950802	950728	9813	12212	214	95/08/02	14:44:00	215	95/08/03	04:04·00	13:20:00		20	13
CCD950803	950728	12213	14583	215	95/08/03	14:50·00	216	95/08/04	04:00·00	13.10.00		20	13
CCD950804	950728	14584	16931	216	95/08/04	14:53:00	217	95/08/05	03·55:40	13·02 40		20	13
CCD950806	950728	16932	19234	218	95/08/06	14·58:00	219	95/08/07	03·45·20	12 47 20		20	13
CCD950809	950728	19235	21533	221	95/08/09	15·03:00	222	95/08/10	03·49·00	12:46:00		20	13
CCD950810	950728	21534	23556	222	95/08/10	15.52·00	223	95/08/11	03:06 00	11:14:00		20	13
CCD950812	950728	23557	25755	224	95/08/12	15:12:00	225	95/08/13	03:25:00	12:13:00		20	13
CCD950814	950814	2	717	226	95/08/14	16:15:00	226	95/08/14	20:13·00	3:58·00		20	13
CCD950815	950814	718	1638	227	95/08/15	19:10:00	228	95/08/16	00:17:00	5:07:00		20	13
CCD950816	950814	1639	2532	228	95/08/16	15:24.00	228	95/08/16	20·22·00	4:58·00		20	13
CCD950817	950814	2533	4638	229	95/08/17	15:27:00	230	95/08/18	03:29:00	12.02:00		20	13
CCD950818	950814	4639	6601	230	95/08/18	15:30:00	231	95/08/19	02:24:00	10·54:00		20	13
CCD950820	850814	6603	8646	232	95/08/20	15 36:00	233	95/08/21	03.11:00	11.35.00		20	13
CCD950821	950814	8647	10226	233	95/08/21	18:15:00	234	95/08/22	03:08·00	8:53:00		20	13
CCD950822	950814	10247	12281	234	95/08/22	15:43:00	235	95/08/23	03·14·35	11·31·35		20	13
CCD950823	950814	12282	14307	235	95/08/23	15:46:00	236	95/08/24	03·01.00	11:15·00		20	13
CCD950824	950814	14308	16304	236	95/08/24	15:50·00	237	95/08/25	02.55:00	11.05:00		20	13
CCD950825	950814	16305	16756	237	95/08/25	15:53:00	237	95/08/25	18 23:00	2·30·00		20	13
CCD950826	950814	16757	17681	238	95/08/26	15:57:00	238	95/08/26	21:05·00	5 08·00		20	13
CCD950827	950814	17682	17982	239	95/08/27	16:05:00	240	95/08/28	02:43:00	10·38·00		20	13
CCD950829	950814	17983	18247	242	95/08/30	01:15:00	242	95/08/30	02·43:00	1:28·00		20	13
CCD950830	950814	18248	20025	242	95/08/30	16:30:00	243	95/08/31	02:23·00	9:53·00		20	13
CCD950831	950814	20026	21855	243	95/08/31	16:16·00	244	95/09/01	02·27 00	10·11:00		20	13
CCD950901	950814	21860	22444	244	95/09/01	16·20:00	244	95/09/01	19:35:00	3 15:00		20	13
CCD950902	950814	22445	23625	245	95/09/02	16:24:00	246	95/09/03	02·18·00	9·54·00		20	13
CCD950903	950814	23626	25381	246	95/09/03	16:28:00	247	95/09/04	02:13.00	9:45:00		20	13
CCD950904	950904	3	1718	247	95/09/04	16:32:00	248	95/09/05	02·04:00	9 32:00		20	13
CCD950905	950904	1719	3421	248	95/09/05	16:36:00	249	95/09/06	02 03.00	9:27·00		20	13
CCD950906	950904	3421	5068	249	95/09/06	16:50:00	250	95/09/07	01 59:00	9·09·00		20	13
CCD950907	950904	5069	6712	250	95/09/07	16·45 00	251	95/09/08	01·53:00	9 08·00		20	13
CCD950908	950904	6713	7003	251	95/09/08	16:49·00	251	95/09/08	18·26·00	1·37·00		20	13
CCD950911	950904	7004	8456	254	95/09/11	17:03:00	255	95/09/12	01 31:00	8:28 00		20	13
CCD950912	950904	8457	9566	255	95/09/12	18·50:00	256	95/09/13	01 00·00	6: 10 00		20	13
CCD950913	950904	9567	11031	256	95/09/13	17·13·00	257	95/09/14	01:21.00	8 08 00		20	13
CCD950918	950904	11032	11714	261	95/09/18	20·50·00	262	95/09/19	01:00:00	4.10·00		20	13
CCD950919	950904	11715	11892	262	95/09/19	23·58.00	263	95/09/20	00·57:00	0 59 00		20	13
CCD950920	950904	11893	13112	263	95/09/20	18·02·00	264	95/09/21	00·48:00	6 46·00		20	13
CCD950921	950904	13113	14329	264	95/09/21	18.00 00	265	95/09/22	00:45:00	6·45 00		20	13
CCD950922	950904	14330	15493	265	95/09/22	18 08·00	266	95/09/23	00·45·00	6·37·00		20	13
CCD950923	950904	15494	16613	266	95/09/23	18:15:00	267	95/09/24	00:45·00	6 30·00		20	13
CCD950924	950904	16614	17685	267	95/09/24	18·23·00	268	95/09/25	00 20·00	5:57:00		20	13
CCD950925	950904	17686	18691	268	95/09/25	18·23.00	269	95/09/26	00·20:00	5 57:00		20	13
CCD950926	950904	18692	19859	269	95/09/26	17:42:00	270	95/09/27	00.11:00	6 29 00		20	13
CCD950927	950904	19860	20862	270	95/09/27	18:26·00	271	95/09/28	00·00·00	5 34.00		20	13
CCD950929	950904	20863	21807	272	95/09/29	18.40.00	273	95/09/30	00:03:20	5 23 20		20	13
CCD950930	950904	21808	22676	273	95/09/30	18 50.00	273	95/09/30	23.40·00	4·50 00		20	13
CCD951004	950904	22677	23117	277	95/10/04	19:12:00	277	95/10/04	21:39:00	2·27·00		20	13
CCD951006	950904	23118	23694	279	95/10/06	19:28:00	279	95/10/06	22:40:00	3·12.00		20	13

Table 3(b). Observation periods of a 35 mm film-type all-sky camera at Syowa Station in 1995.

Date	Hours (Universal Time)									K-Index	
	h	m	s	h	m	s	h	m	s		
MAR. 6				19	00	00	-23	00	00	2421	0111
7				19	00	00	-23	00	00	1111	1111
11							22	00	00	6452	2467
12	-00	00	00				19	00	00	6643	3357
13	-00	00	00				18	30	00	6545	4535
14	-00	30	00							5543	3345
19							19	22	00	2111	0123
20	-00	03	30				18	31	00	2111	1222
21	-02	30	30				18	00	00	1111	0111
22	-01	08	30				18	01	00	1211	1112
23	-01	09	30							1112	2342
25							19	01	00	4220	1114
26	-01	09	30	18	01	00	-22	53	30	3133	4545
26							23	52	00		
27	-01	39	30				17	40	30	5133	3345
28	-01	39	30							6542	2444
29							17	30	30	5542	2235
30	-01	39	30				17	30	30	4411	3222
31	-01	39	30							3112	1114
APR. 2							17	30	30	5622	3212
3	-01	39	30							1010	0000
4							17	30	30	1110	0003
5	-02	09	30				17	00	30	4323	1134
6	-02	09	30				16	41	00	3310	0025
7	-02	15	30				17	09	00	5764	5866
8	-02	14	30				16	33	00	5554	3445
9	-02	15	30				16	30	00	6544	3425
10	-00	54	30				16	30	00	5645	3335
11	-02	14	30				16	21	30	2433	2255
12	-02	30	30				16	16	30	6632	2234
13	-02	35	30				16	16	30	3520	0025
14	-02	35	00							4200	0113
19							15	48	30	4421	0013
20	-03	01	30							2421	1122
26							15	22	00	3423	2225
27	-03	25	30							3463	3233

Date		Hours (Universal Time)									K-Index	
		h	m	s	h	m	s	h	m	s		
APR.	30							15	52	00	2001	2004
MAY	1	-00	36	00	00	41	00	-03	34	30	0000	0000
	1							14	03	30		
	2	-00	07	00	00	23	00	-03	40	30	5542	4657
	5							22	43	00	7665	4466
	6	-03	52	00							7444	3345
	10	14	37	00	-18	10	00	18	21	00	3311	2122
	11	-04	06	30							4311	1014
	12				18	09	30	-18	33	30	4221	1032
	14							14	26	00	3420	0131
	15	-04	16	30				14	26	30	0110	3114
	16	-04	16	30				14	21	30	4564	5466
	17	-04	22	30							5654	2244
	18							17	00	30	4312	2126
	19	-03	42	00	14	14	30	-17	41	00	4443	2334
	20				14	12	30	-19	43	00	5444	2235
	21				19	18	00	-21	03	30	4411	0003
	22				17	38	30	-20	28	00	3324	4005
	23							14	06	30	4211	2266
	24	-04	30	30				14	04	30	4654	3335
	25	-04	39	30				14	02	30	5633	2233
	26	-00	21	00	02	44	00	-04	41	30	4211	3344
	26							14	00	30		
	27	-04	43	30				13	59	30	2221	1220
	28	-04	45	30				13	57	00	2331	1124
	29	-04	46	30							2111	1133
	30	00	21	00	-04	48	30	22	30	00	3653	4455
	31	-00	54	30				17	34	30	5545	3465
JUN.	1	-04	52	30				16	02	00	6645	4465
	2	-04	52	30	13	49	00	-23	12	30	5533	4355
	3							17	45	30	4654	3256
	4	-01	23	30							4122	1113
	5	00	17	00	-05	00	30				4311	0105
	5				16	22	00	-23	50	30		
	6							13	45	30	4211	0022
	7	-02	59	30	03	00	00	-05	02	00	5111	0033
	7							13	44	00		
	8	-05	04	00				13	43	00	3320	0000
	9	-05	04	30	13	43	30	-20	54	30	0011	0110

Date	Hours (Universal Time)									K-Index	
	h	m	s	h	m	s	h	m	s		
JUN. 9							22	32	00		
10	-05	05	30				22	32	30	4422	1101
11	-05	05	30				13	41	30	4330	0001
12	-05	07	30				13	41	30	0011	0000
13	-05	07	30	13	41	30	-22	45	30	0000	0002
14							13	41	00	1001	1024
15	-05	07	30	13	41	30	-18	26	00	2221	1011
16							13	41	00	5511	2242
17	-05	07	30				13	41	30	4411	1103
18	-13	42	30				14	02	30	1543	2114
19	-05	07	30				13	40	30	4663	5445
20	-05	12	30				13	40	30	4554	3324
21	-05	12	30	13	40	30	-20	44	00	3333	2223
21							23	31	00		
22	-05	12	30	13	40	00	-20	59	30	3422	2212
22							21	00	00		
23	-05	12	30							3333	2111
24	13	40	00	-18	17	00				2111	1110
25							18	46	00	0011	2354
26	-05	13	00				13	41	00	6532	2136
27	-05	12	30							3231	0014
28							13	43	00	3221	2225
29	-05	10	30				13	43	30	2000	1111
30	05	10	30							4323	3477
JUL. 1							13	47	30	6542	1023
2	-05	09	30	13	50	30	-20	39	30	4200	0001
6							13	55	00	1000	0011
7	-05	09	30				13	55	30	3300	0000
8	-05	09	30	13	55	30	-23	54	30	2201	1000
9				13	55	00	-16	17	00	1001	2121
13							20	10	30	2110	0000
14	-05	04	30				14	01	00	2001	0124
15	-05	00	30				14	03	30	2111	1111
16	-05	00	30				14	05	30	2011	2546
17	-03	40	00				22	18	30	4443	3425
18	-05	00	30	14	09	30	-16	56	00	5422	2122
18							23	21	00		
19	-04	55	30				14	10	30	3322	2124
20	-04	55	30							5413	2112

Date	Hours (Universal Time)									K-Index
	h	m	s	h	m	s	h	m	s	
JUL. 20							14	12	30	
21	-04	47	30				14	12	30	0121 1011
22	-04	47	30	14	17	30	-17	55	00	2321 1123

Appendix

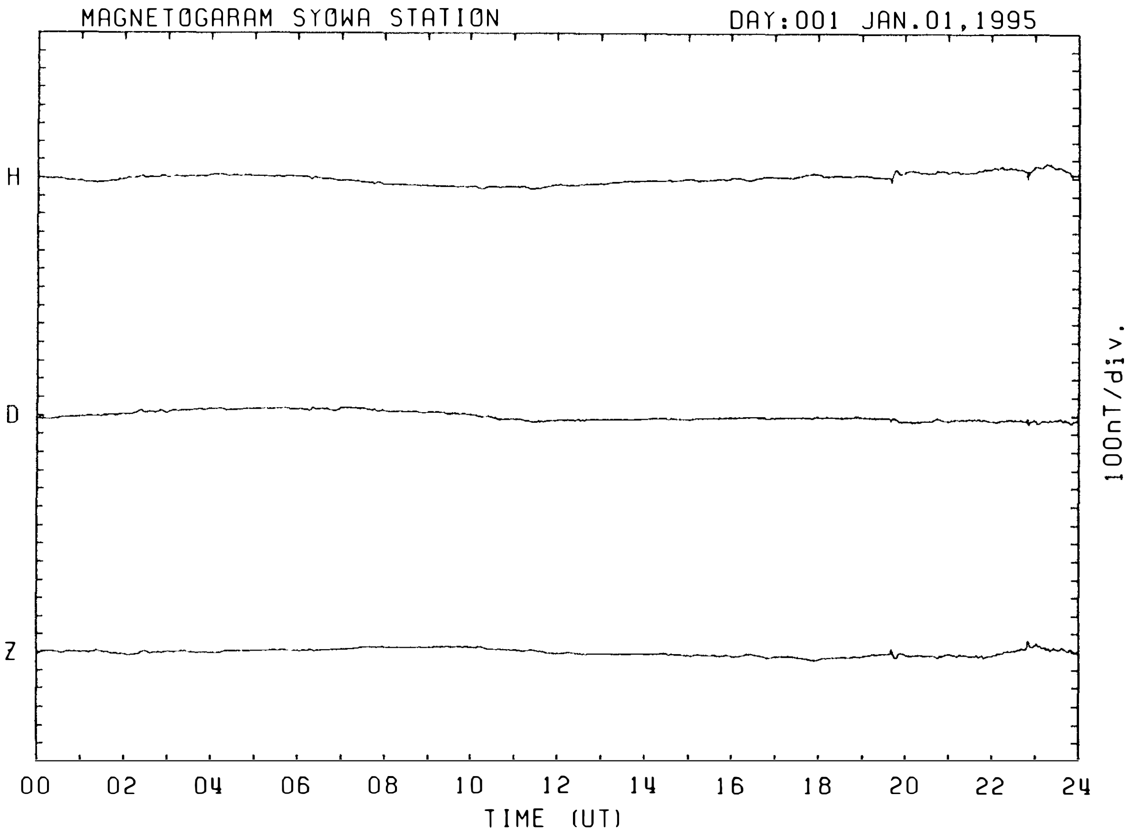
Summary plots of the Upper Atmosphere Physics Monitoring data in 1995

- Plotted data from top:

H	:	northward component of the magnetic variation
D	:	westward component of the magnetic variation
Z	:	downward component of the magnetic variation

- Plotting vertical scale:

H, D, Z : 100 nT/div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H
D
Z
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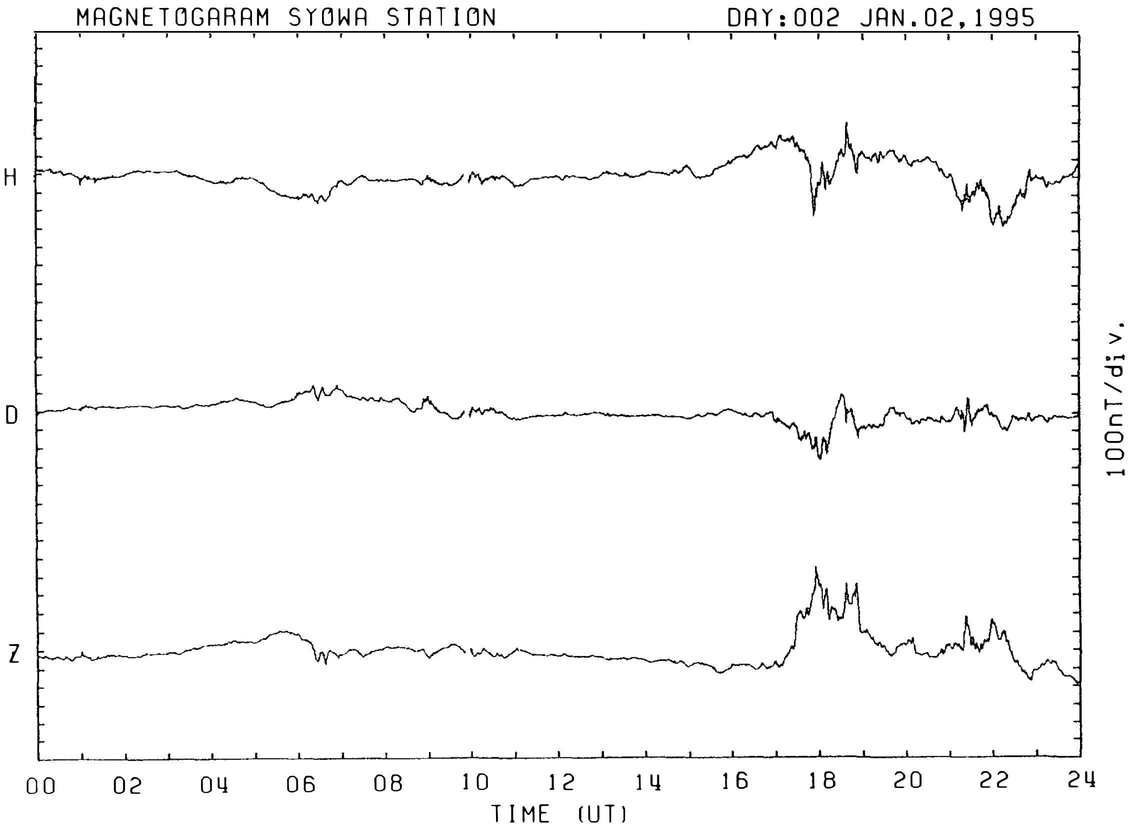
TIME (UT)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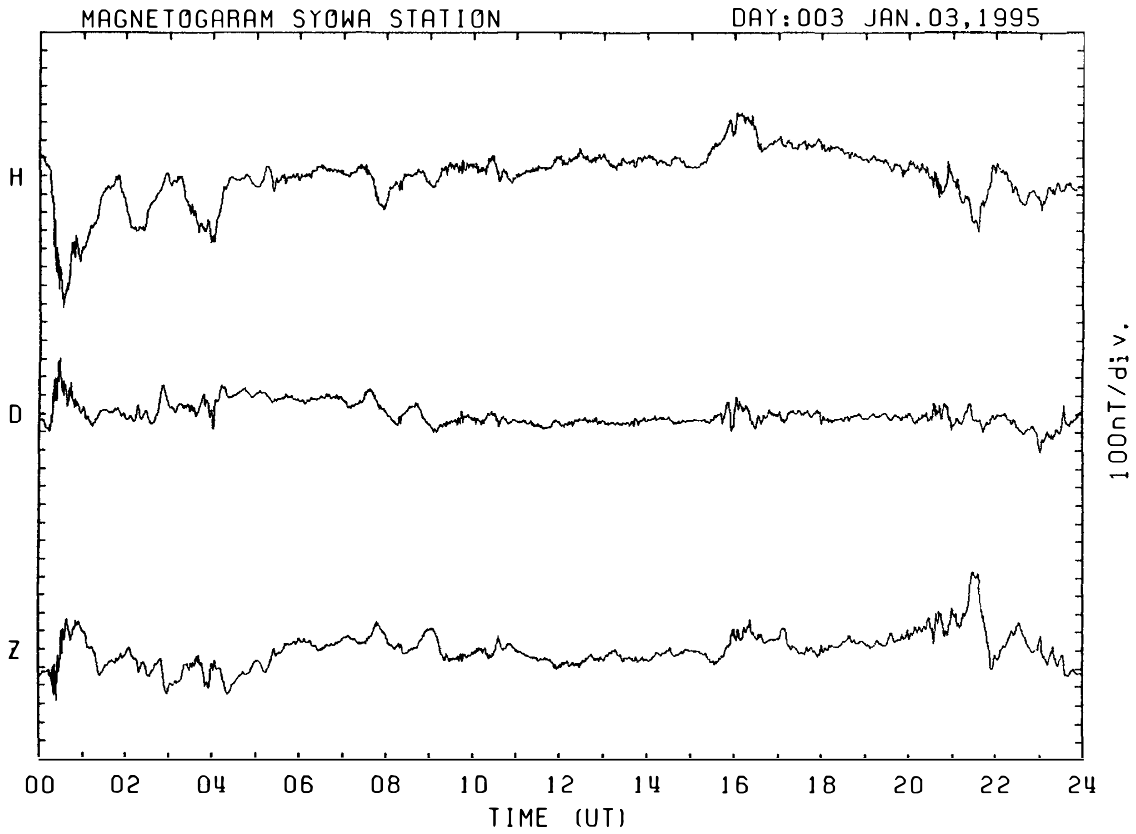
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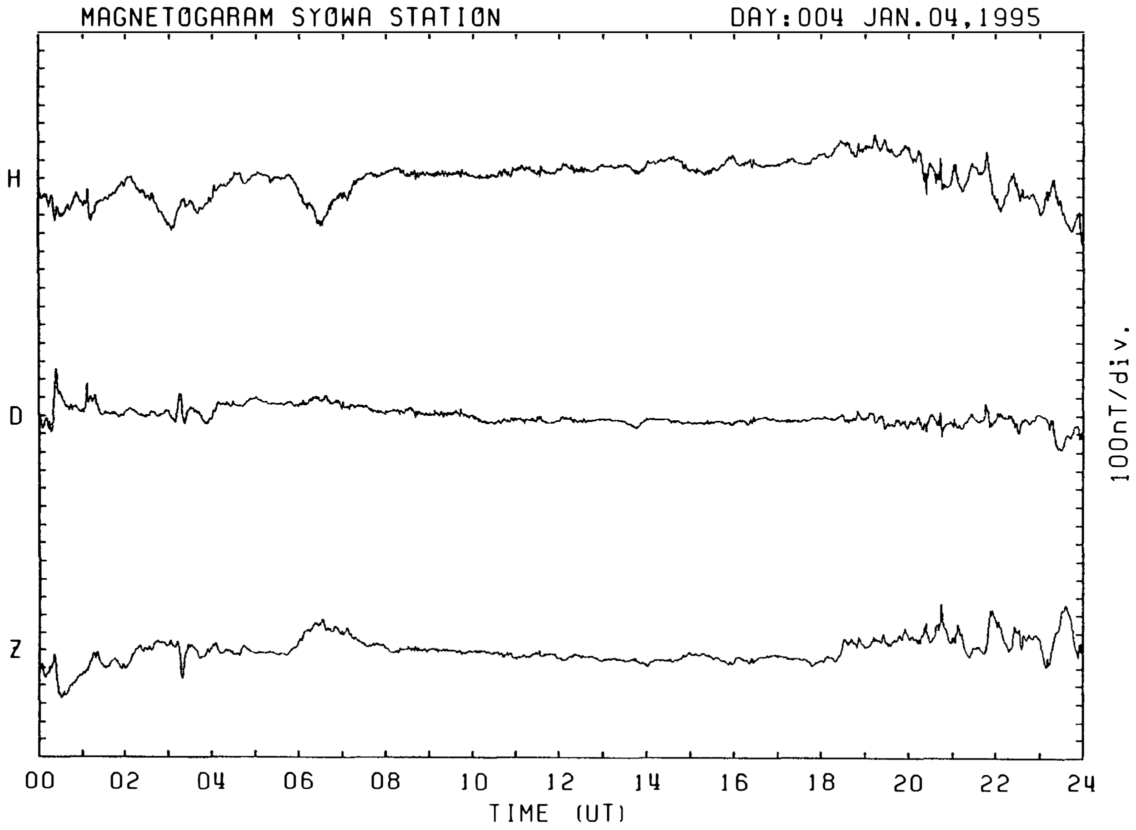
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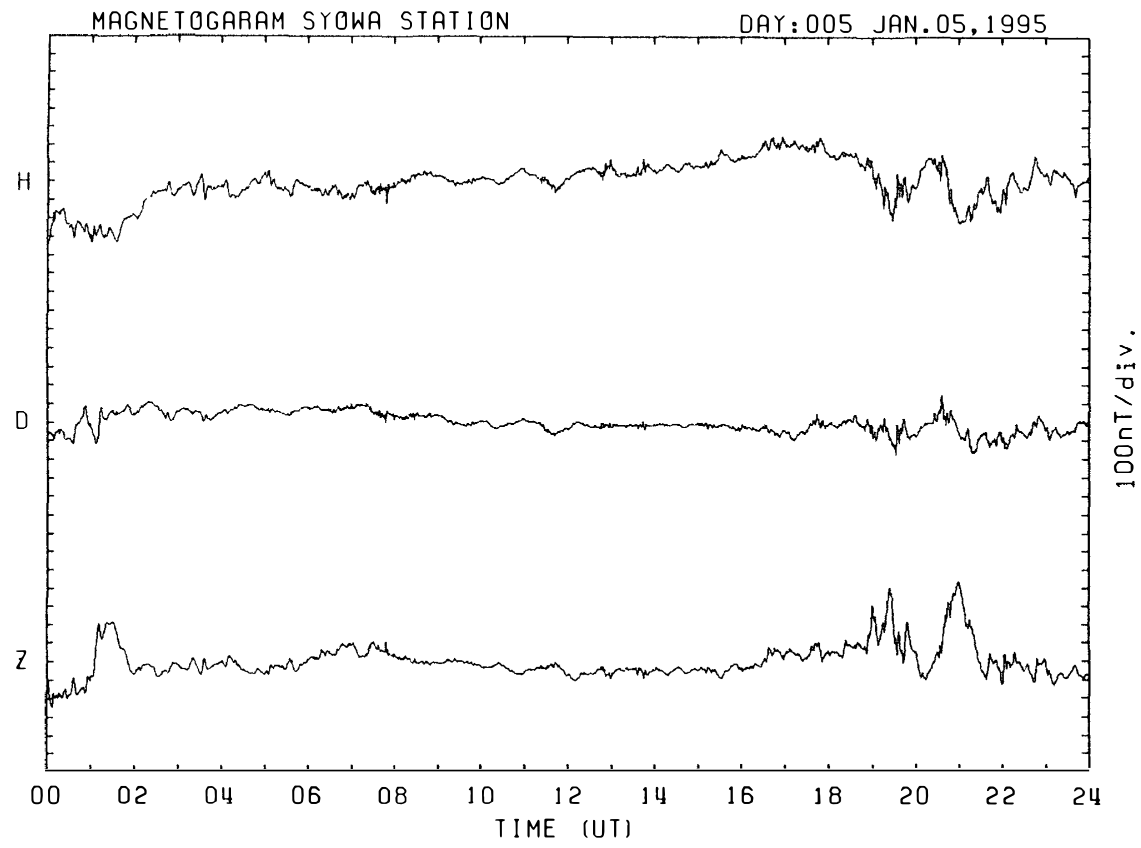
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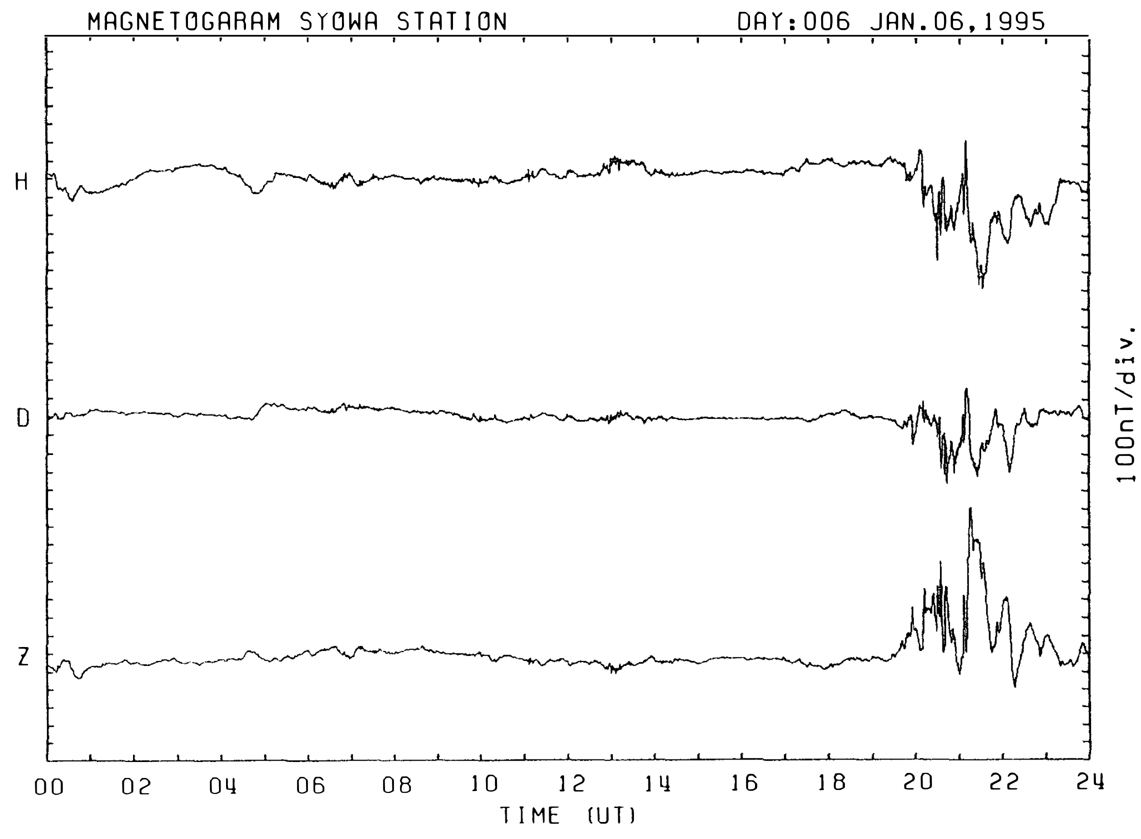
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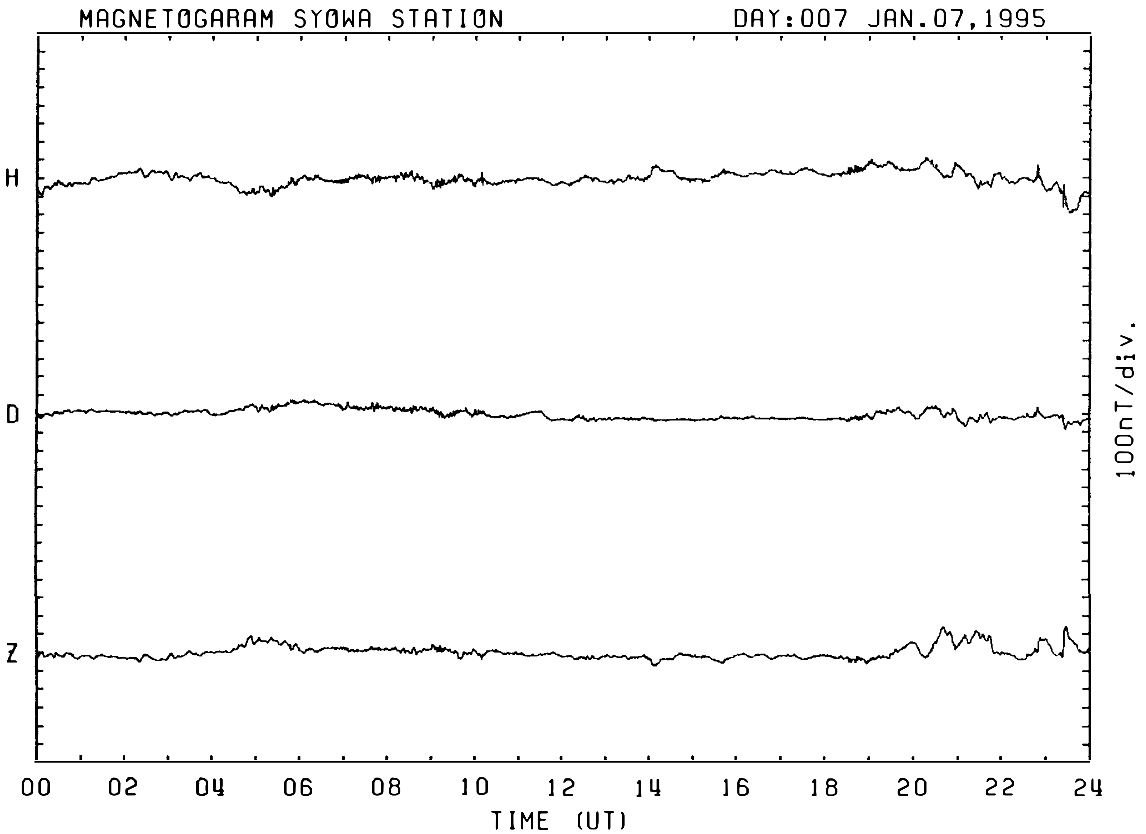
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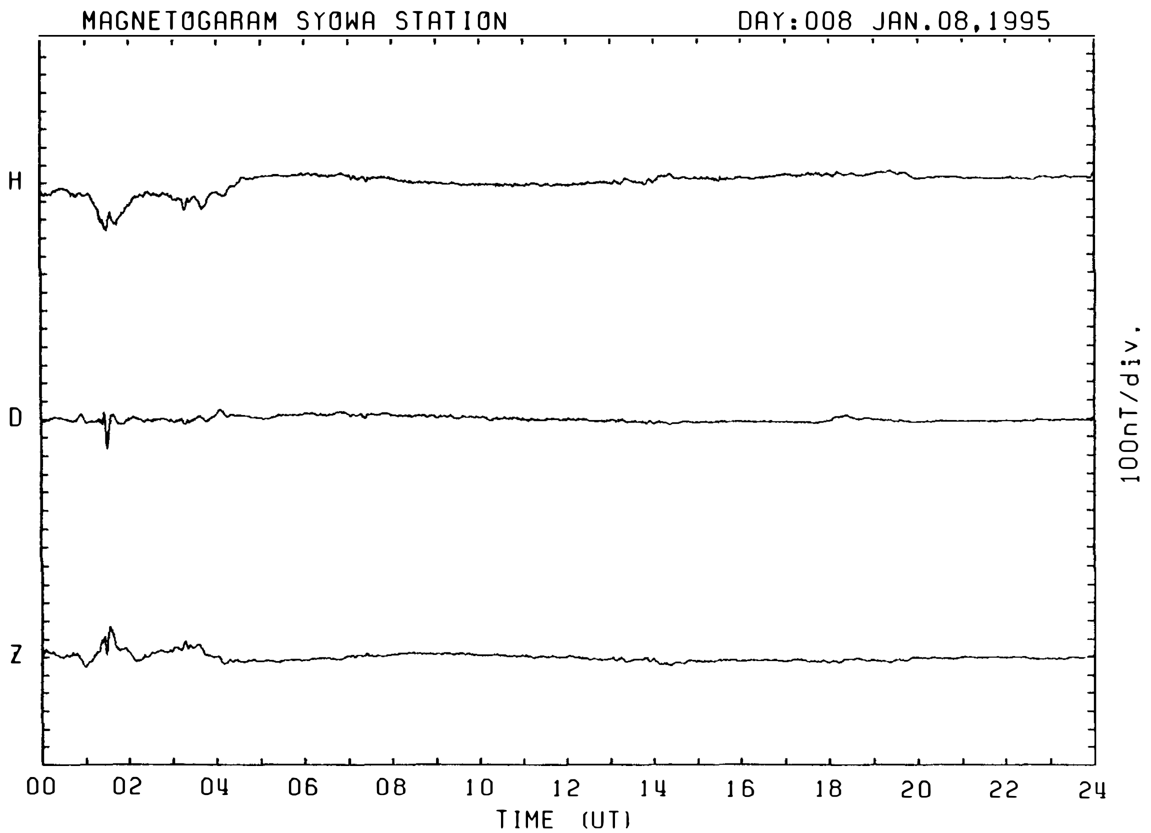
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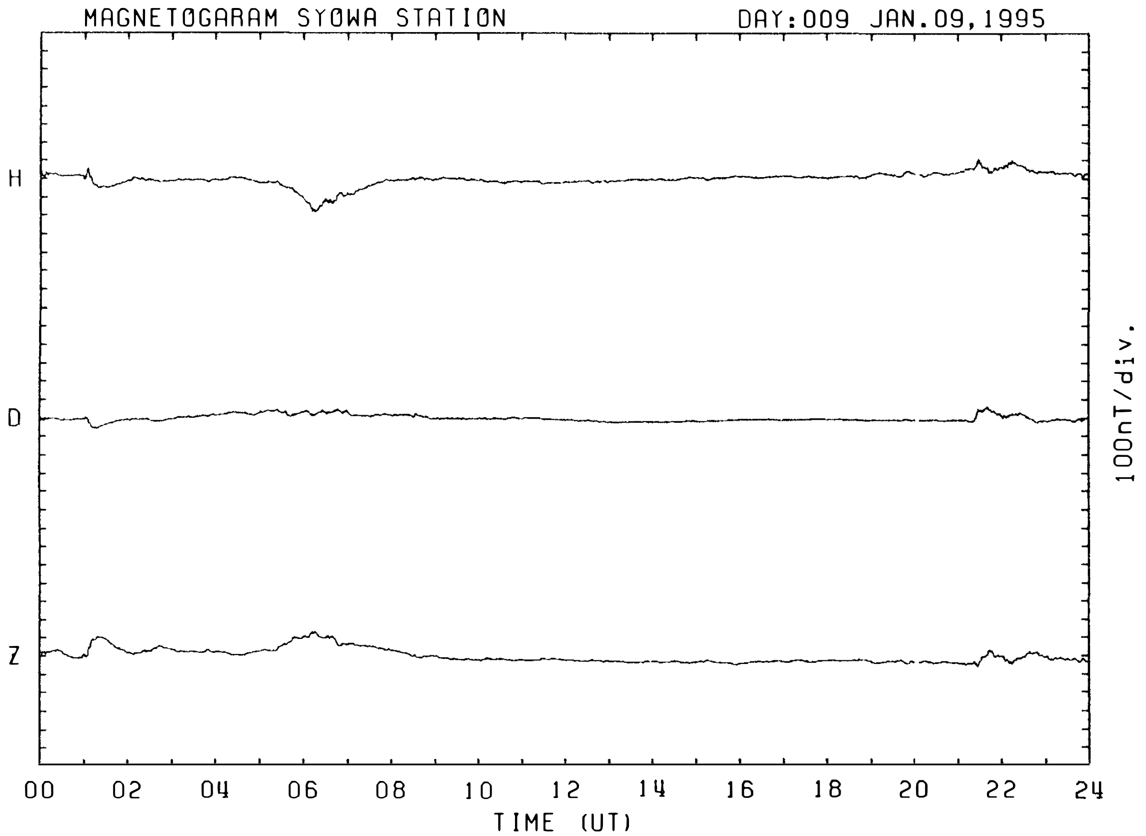
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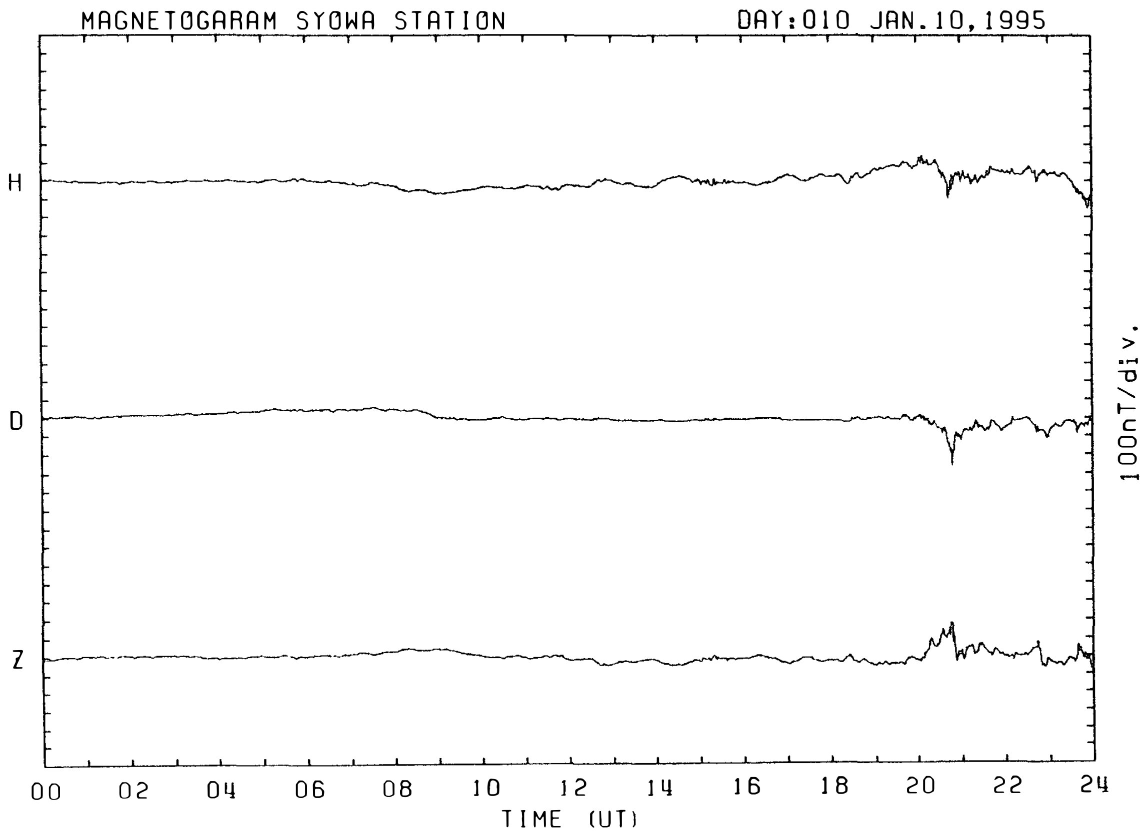
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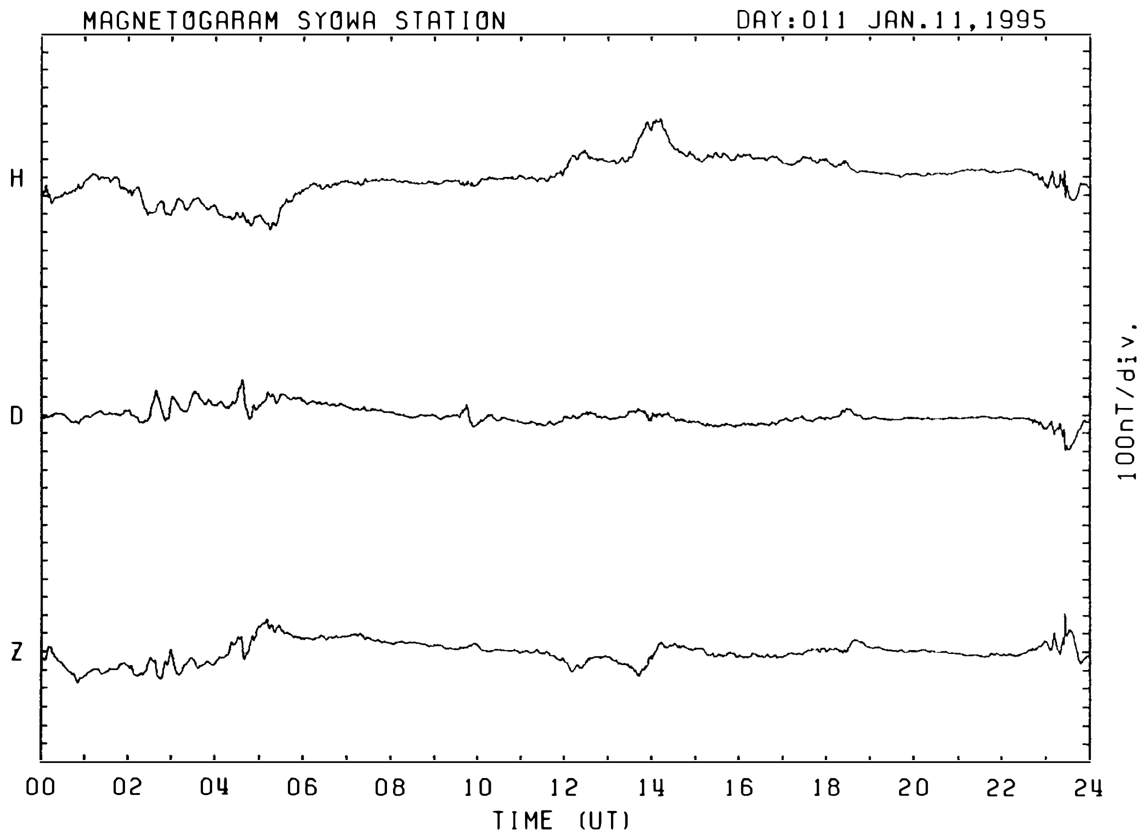
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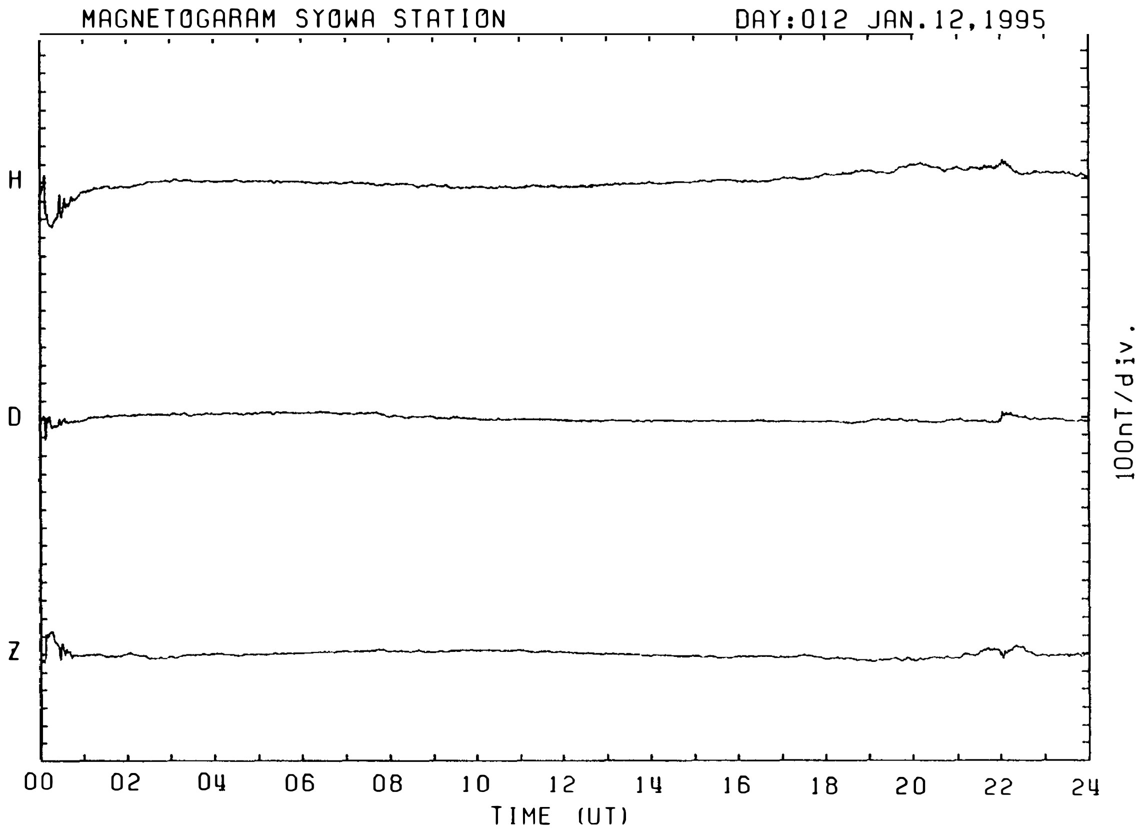
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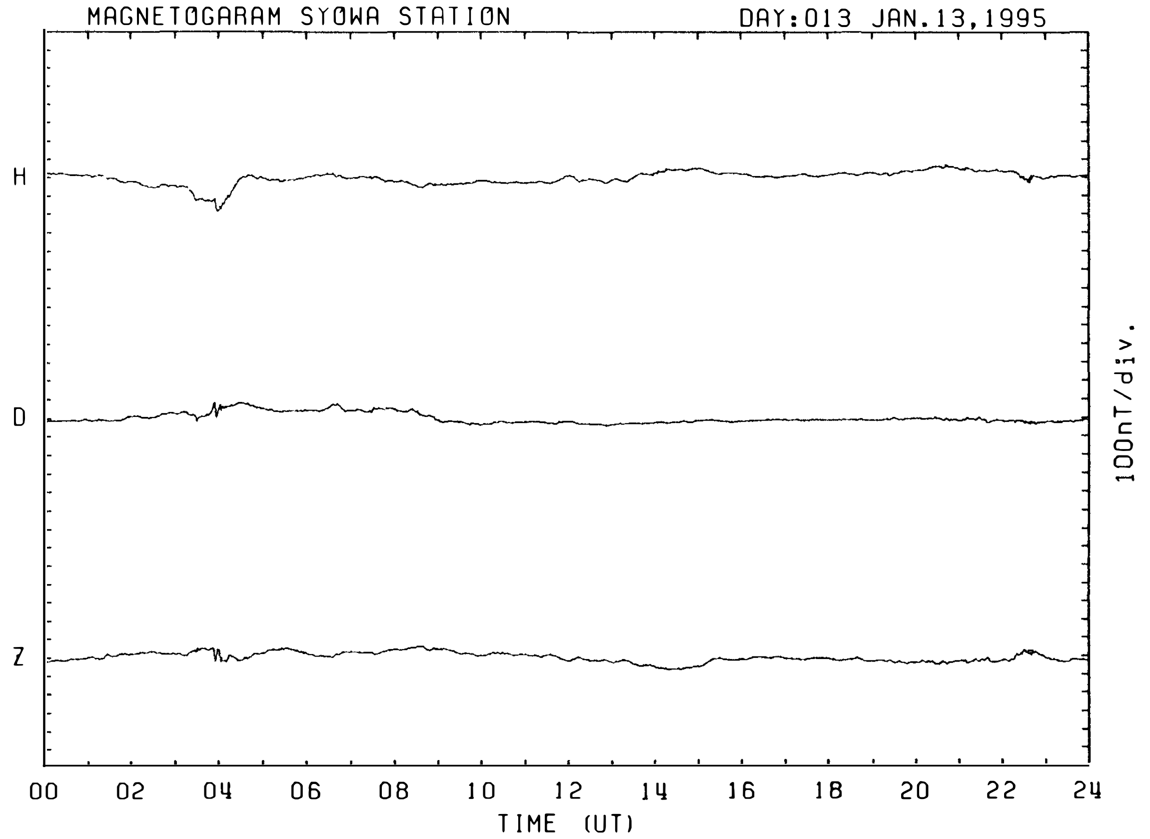
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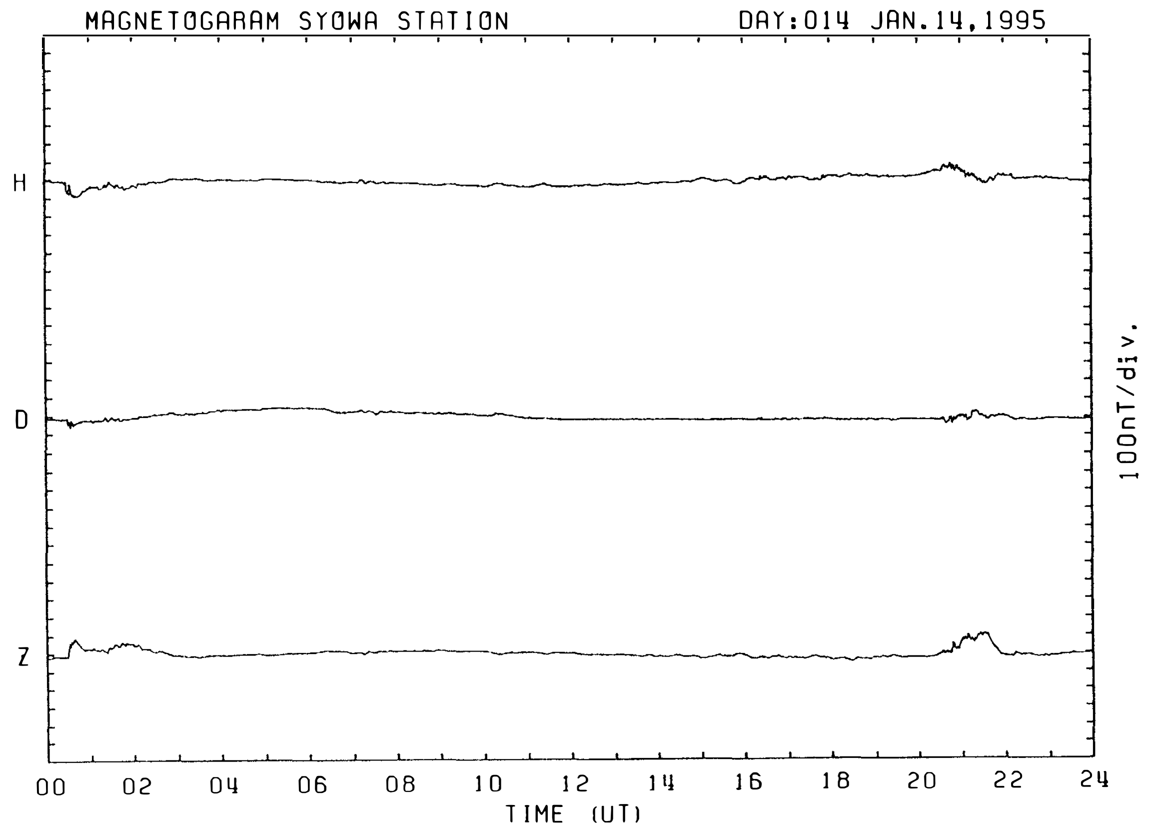
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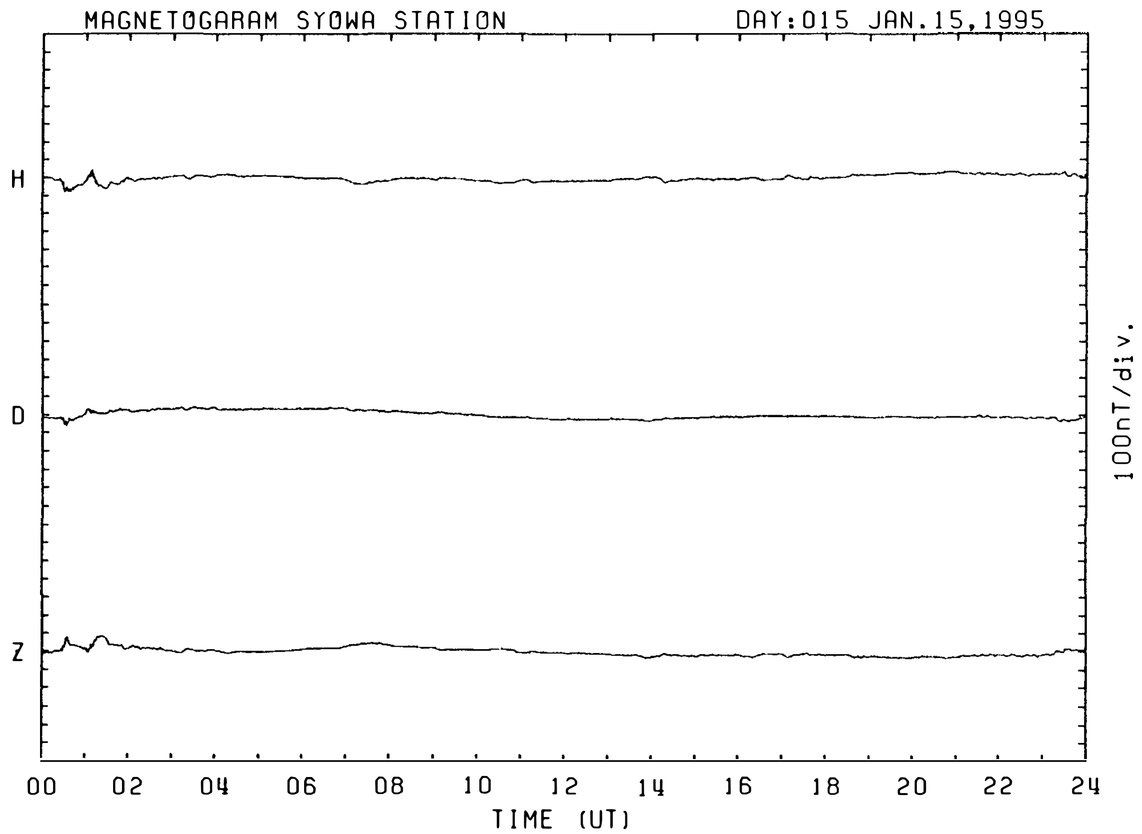
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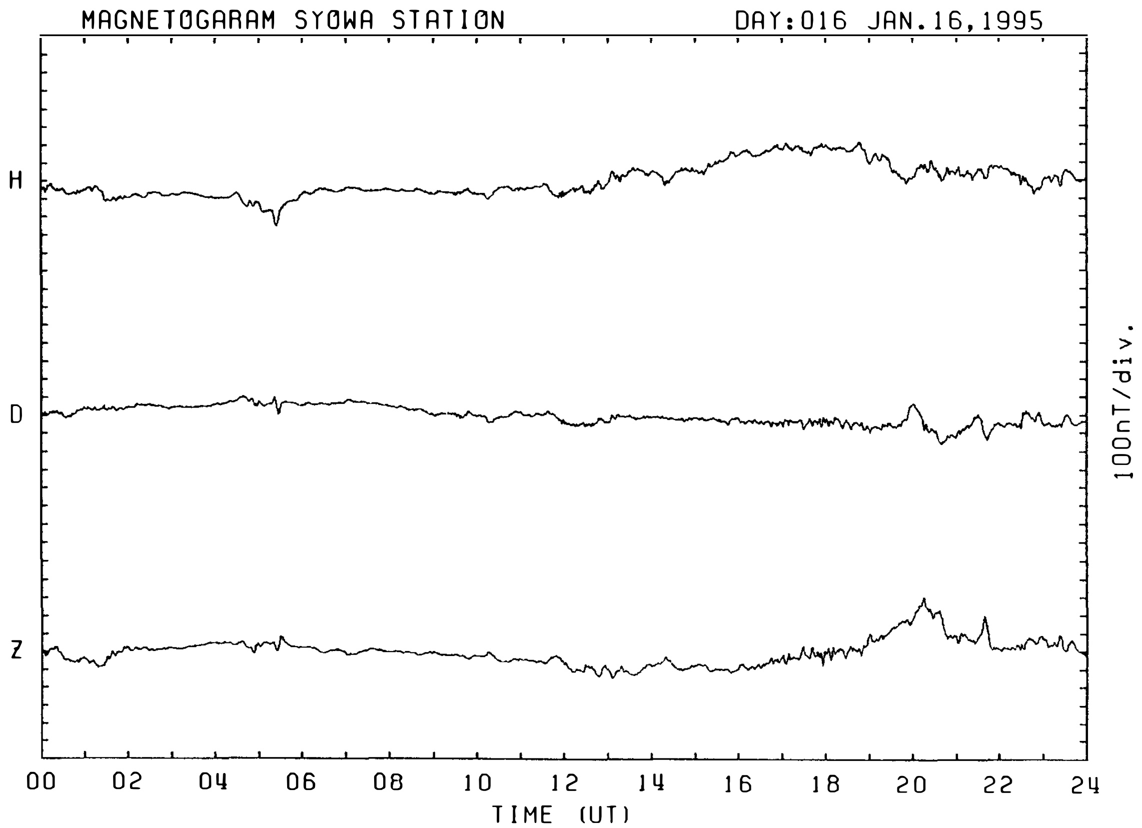
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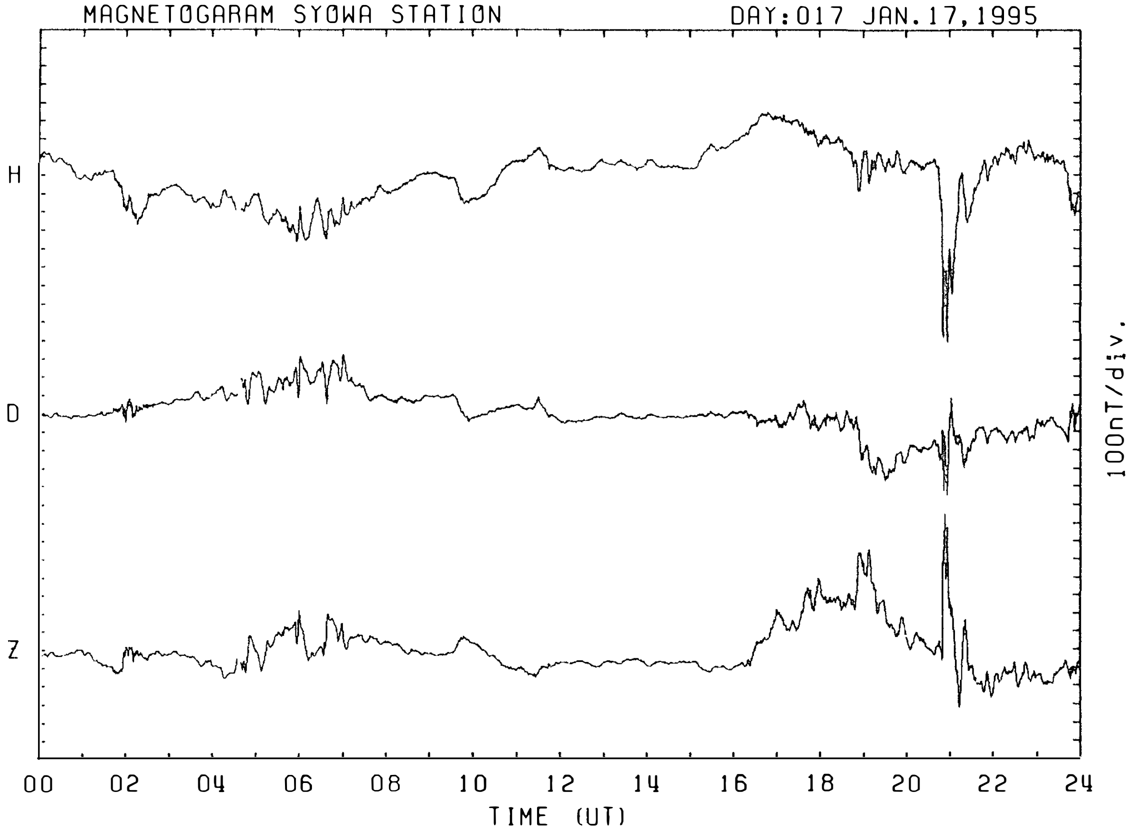
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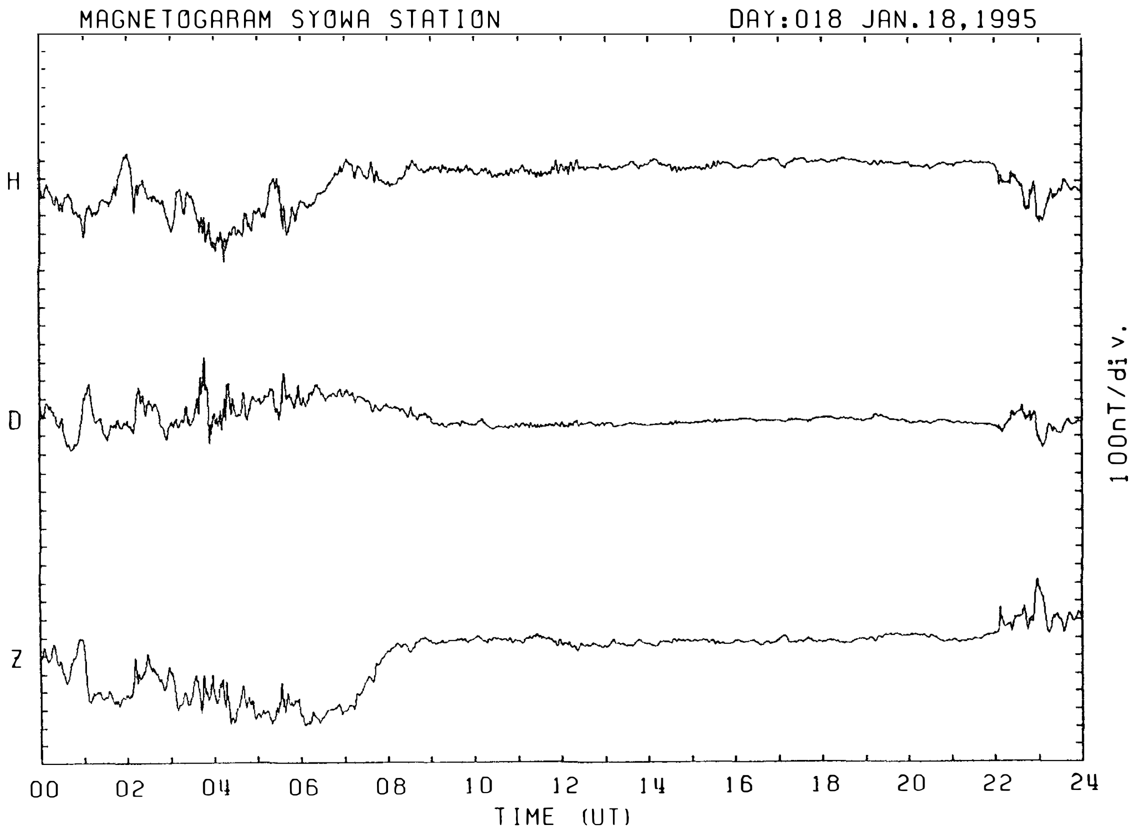
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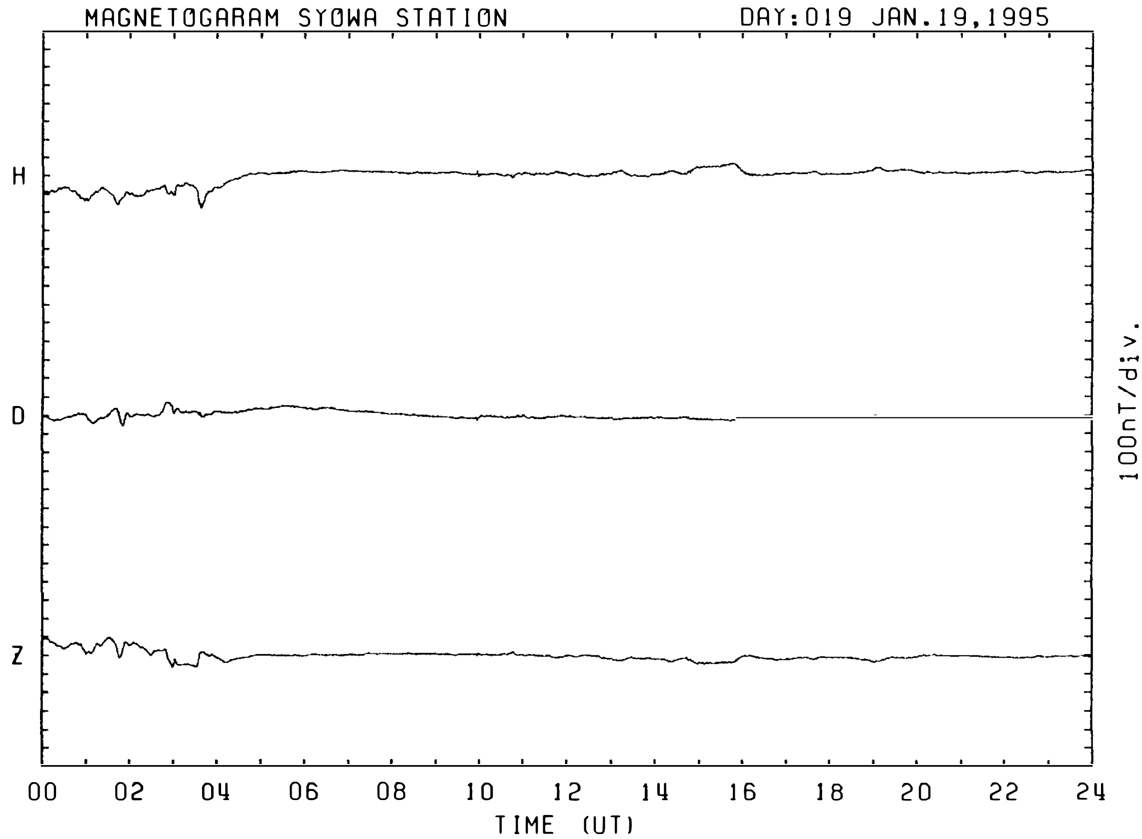
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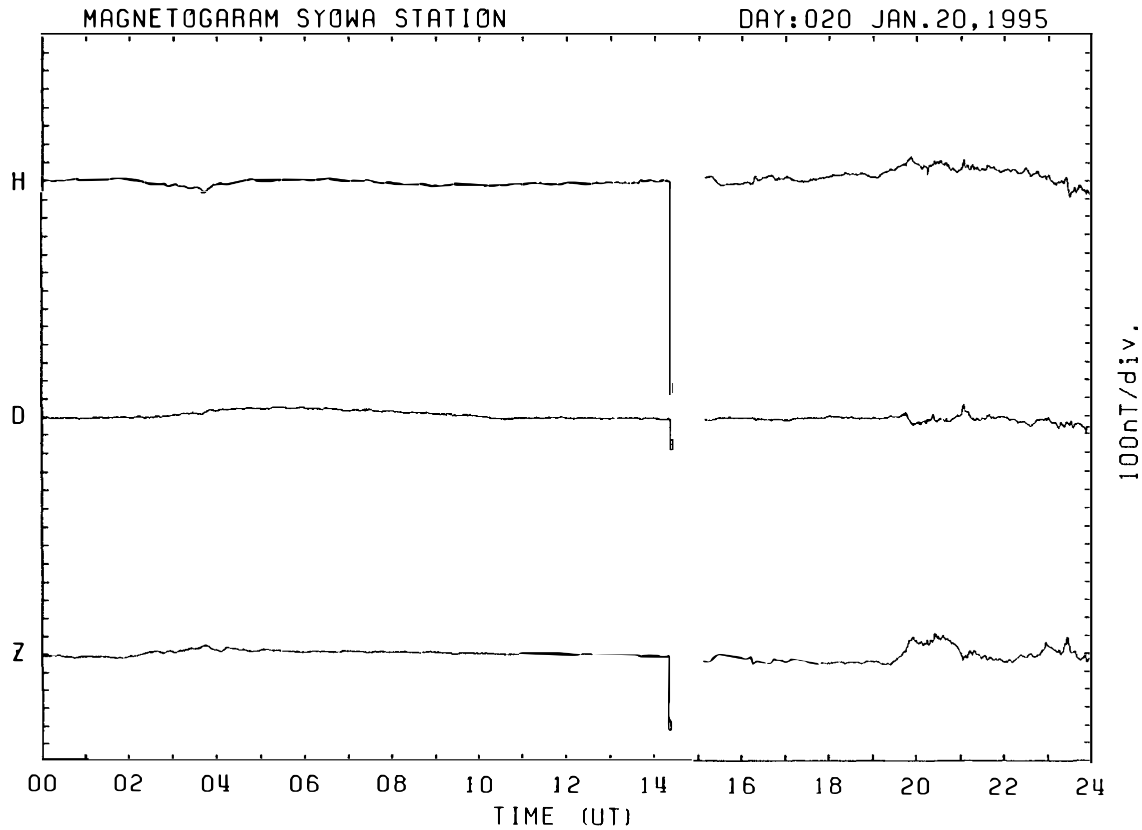
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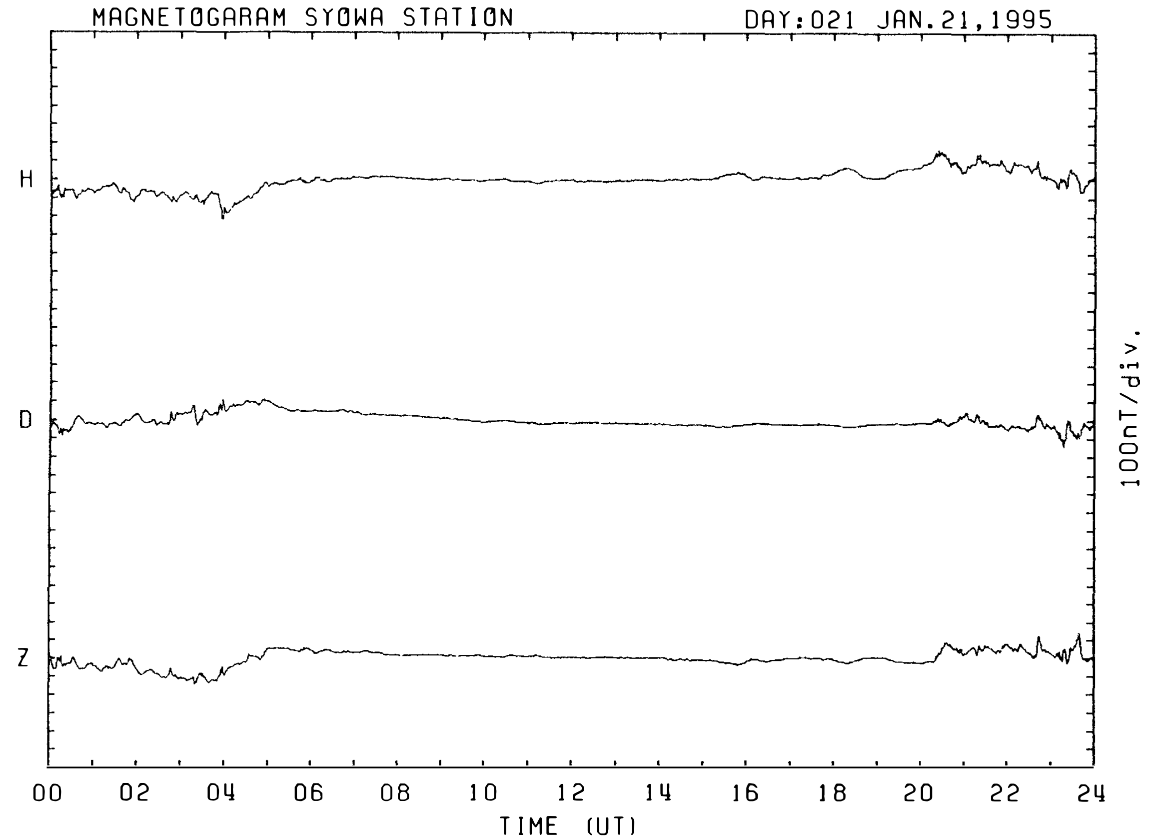
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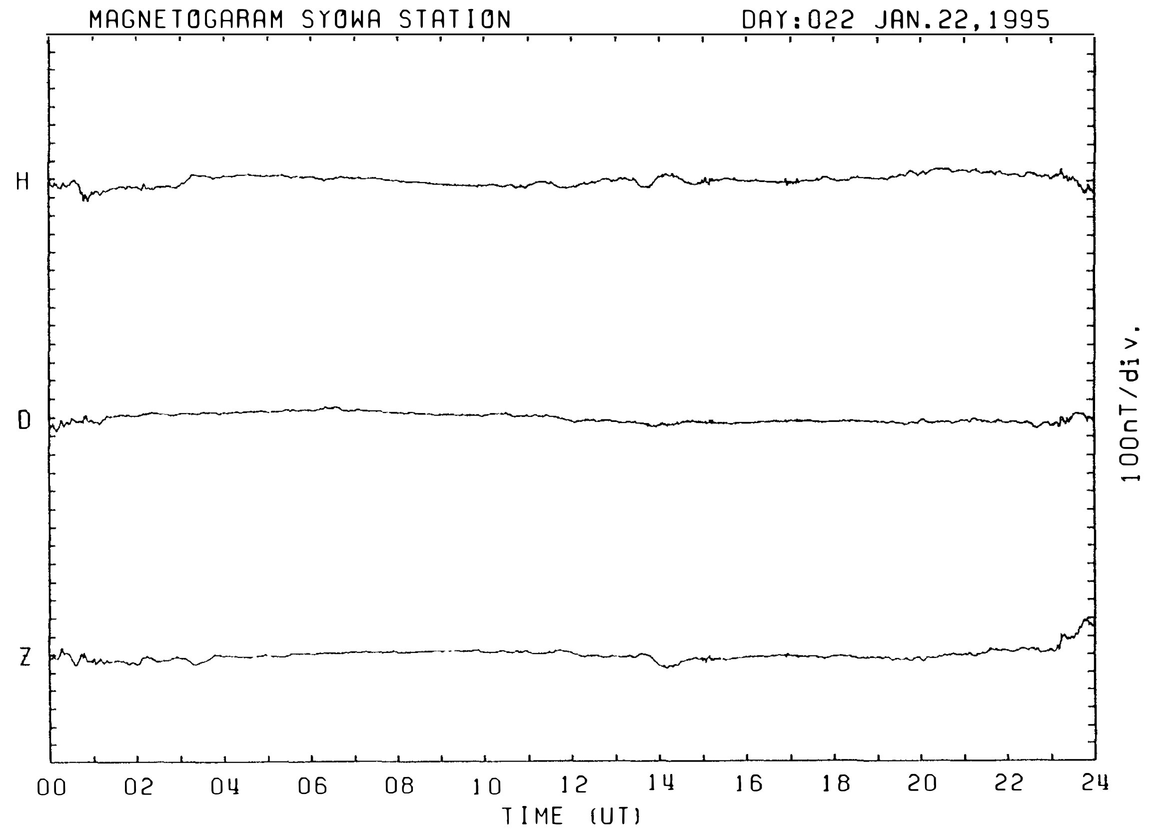
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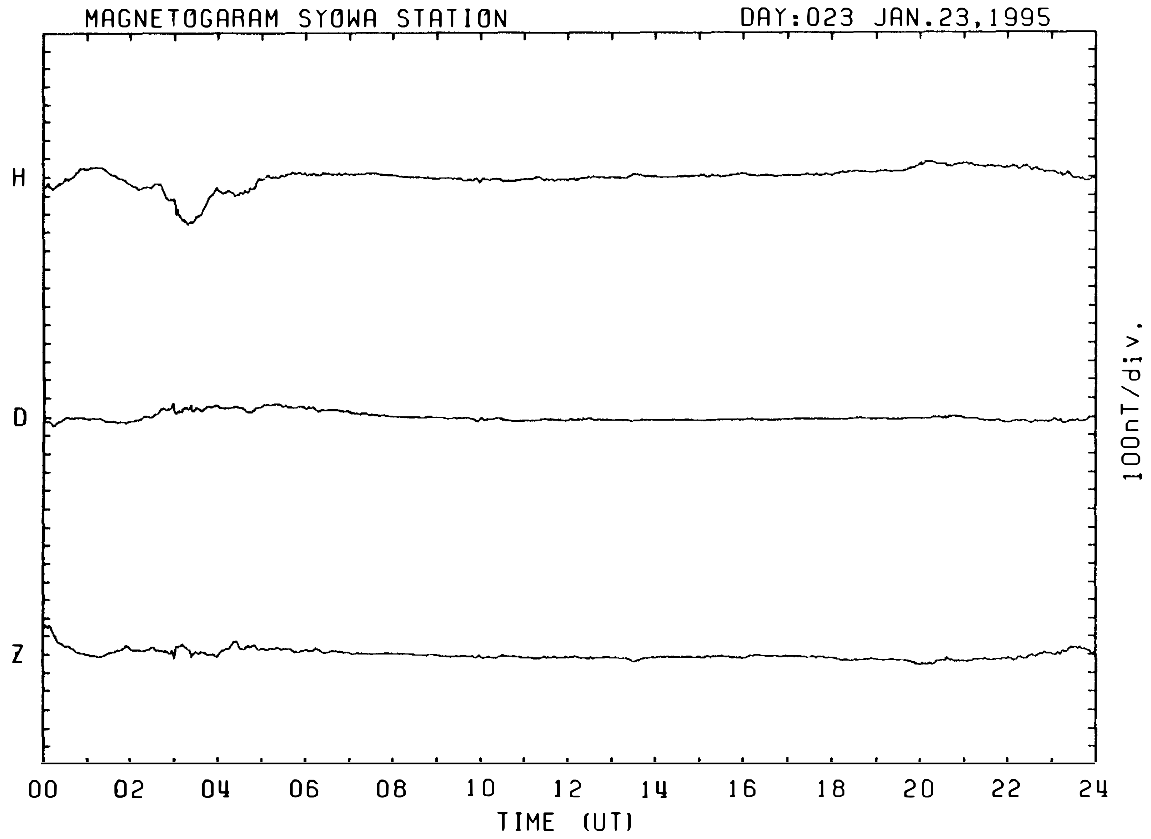
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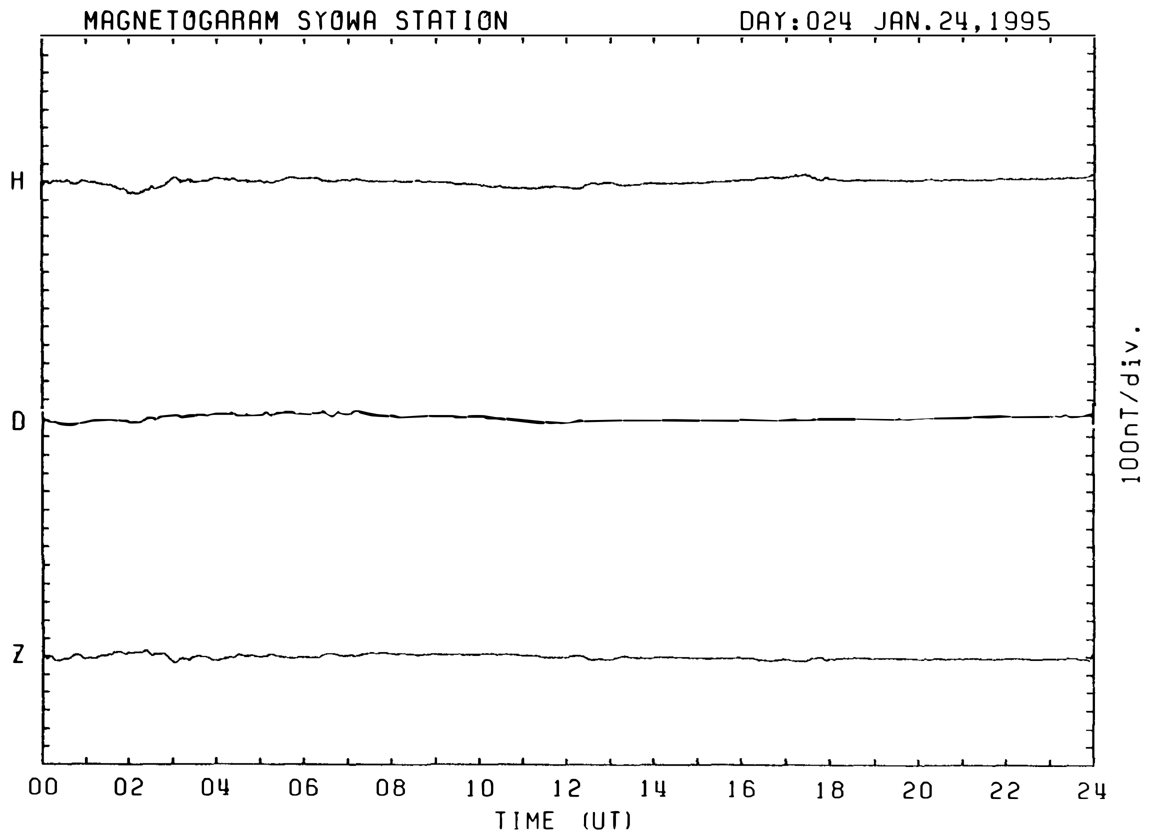
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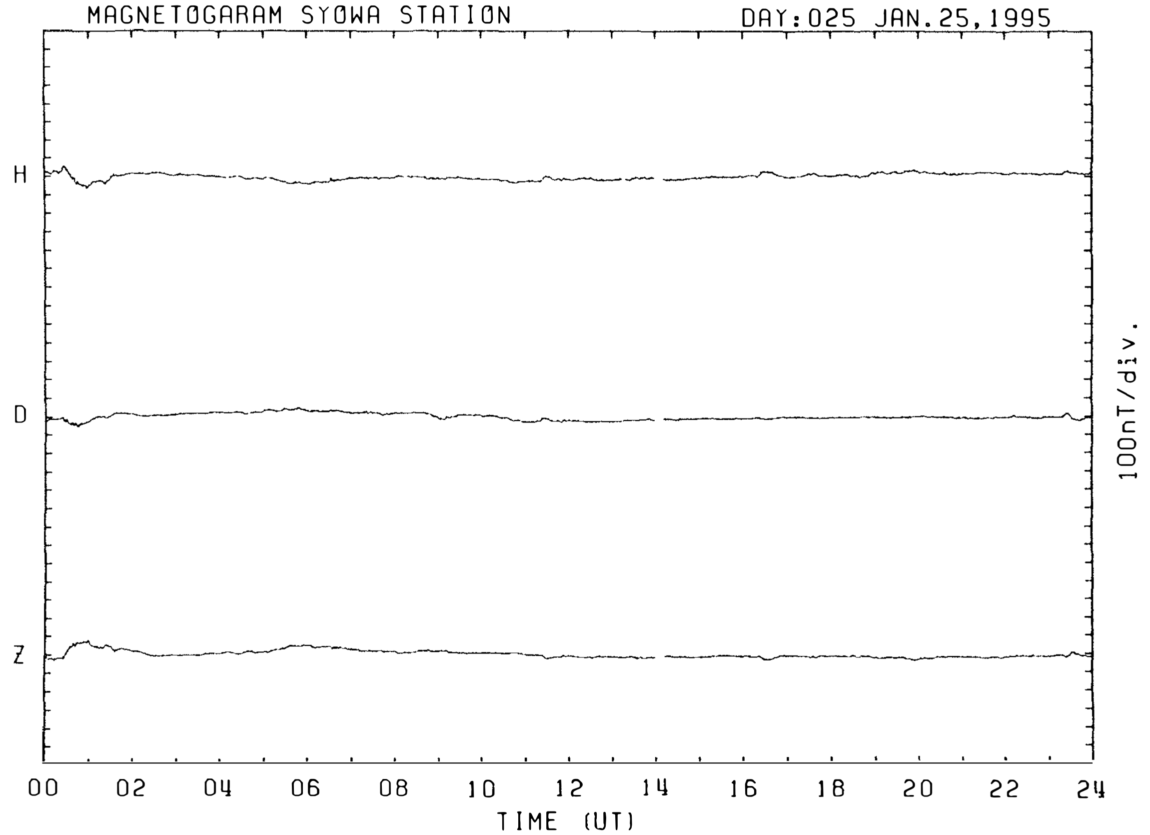
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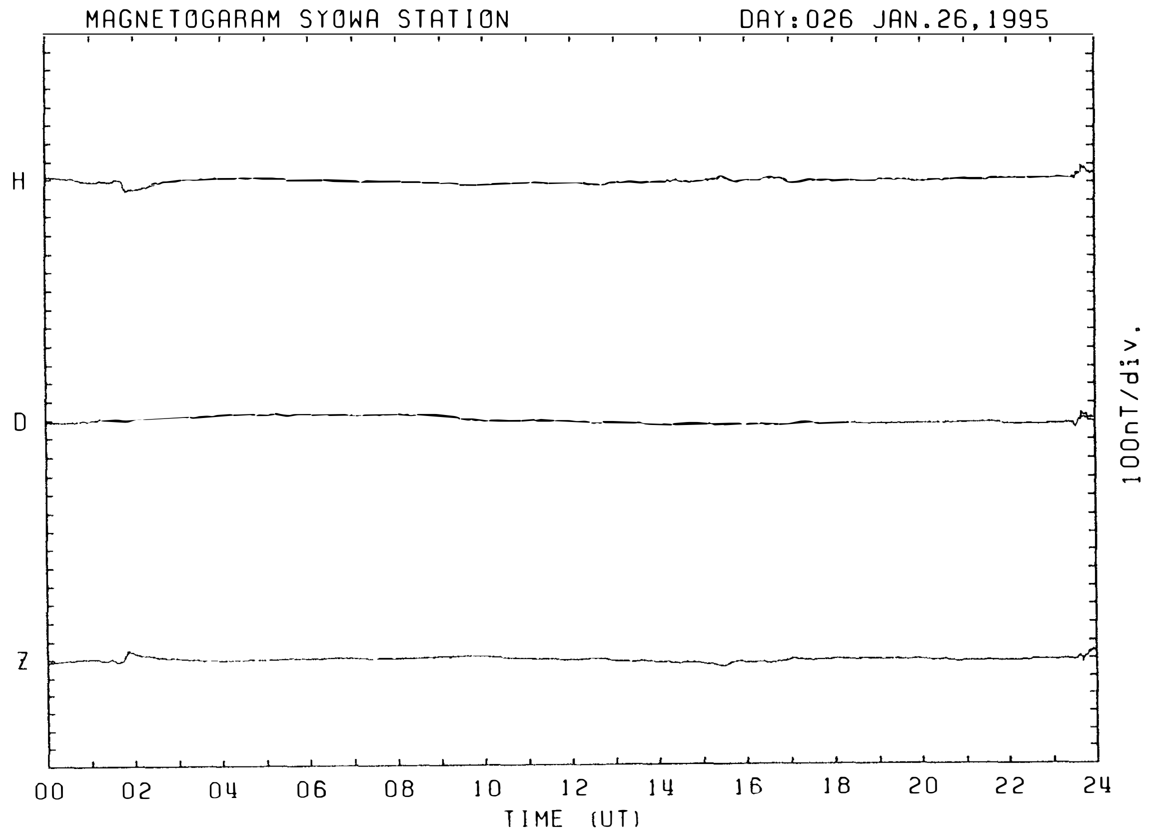
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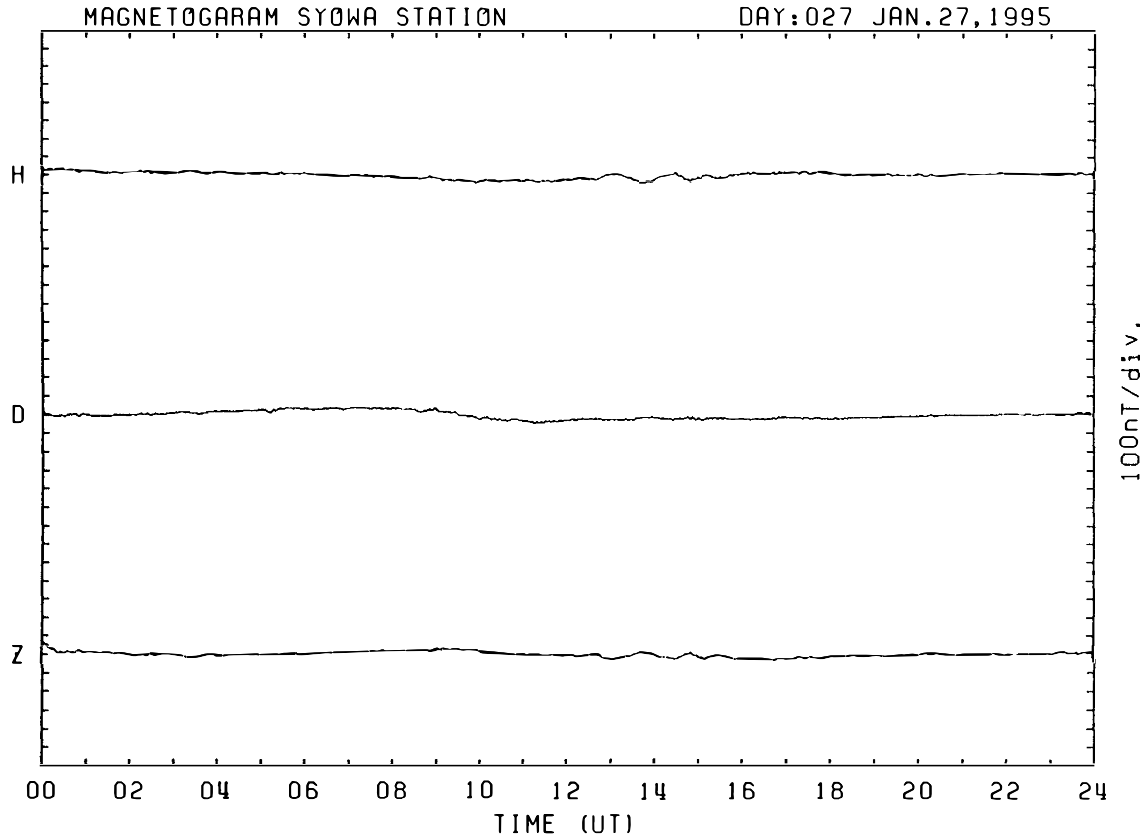
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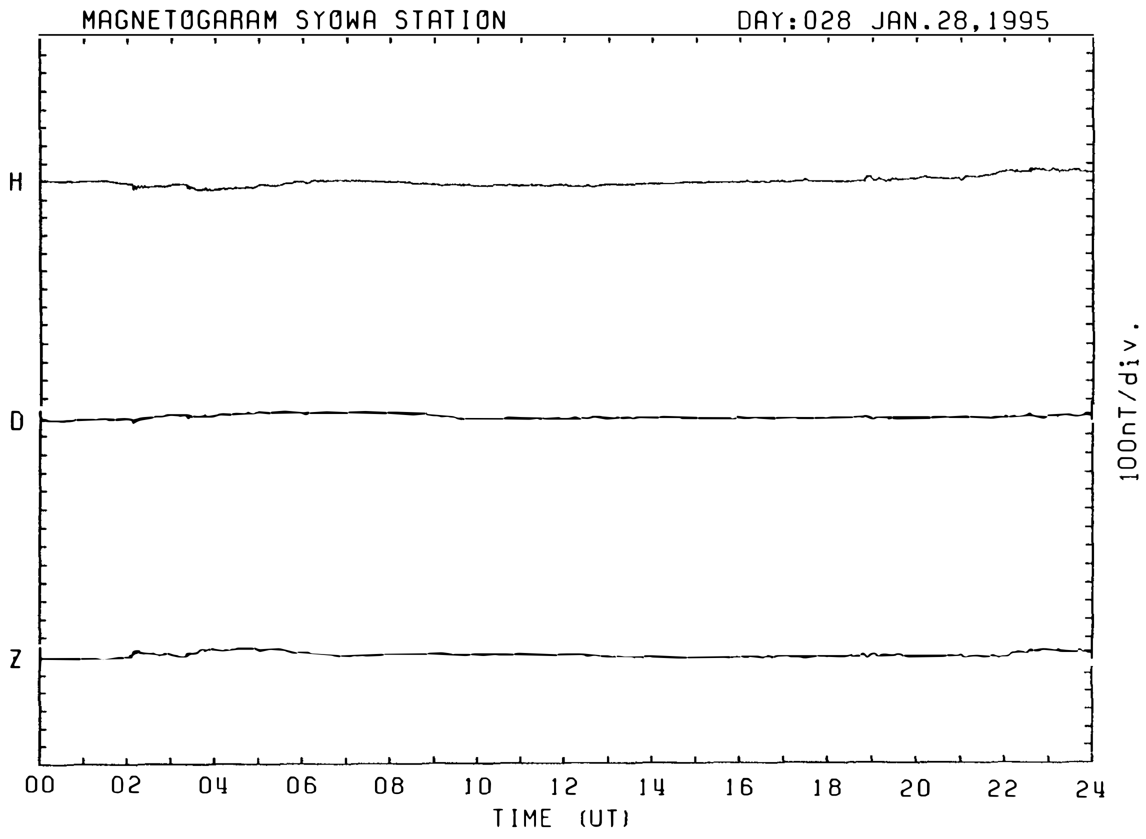
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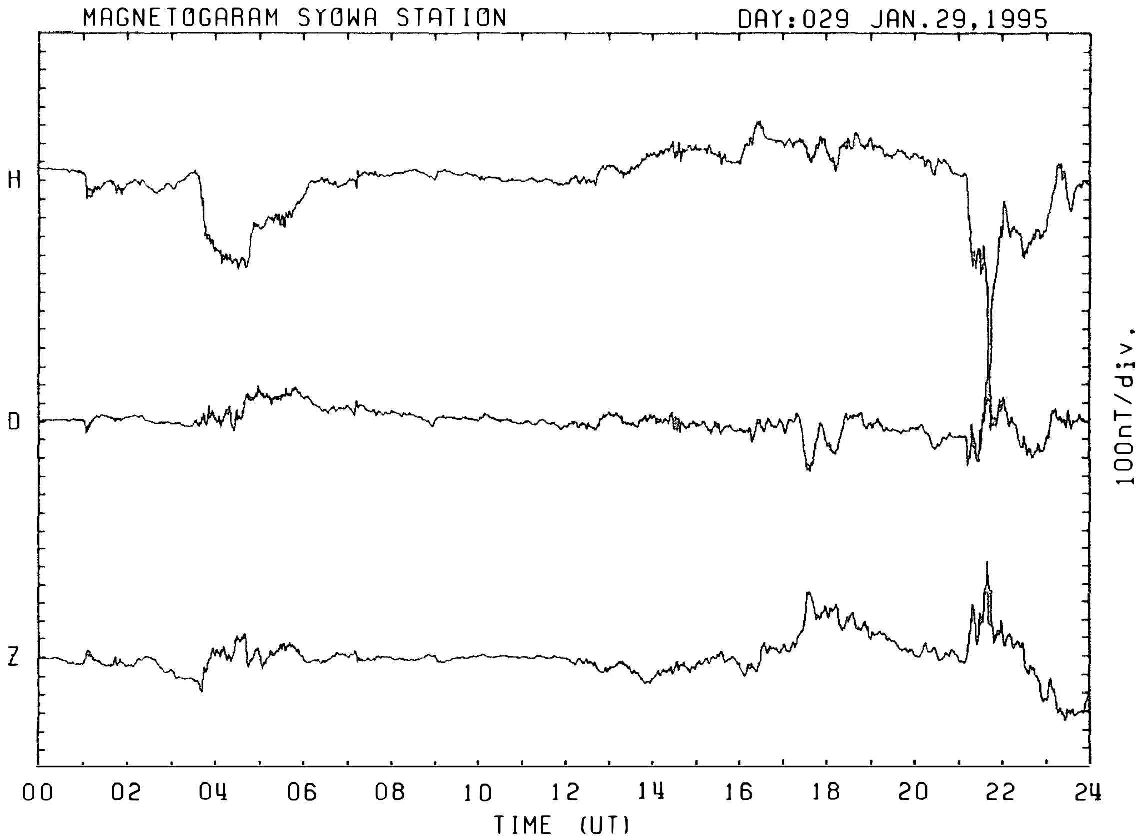

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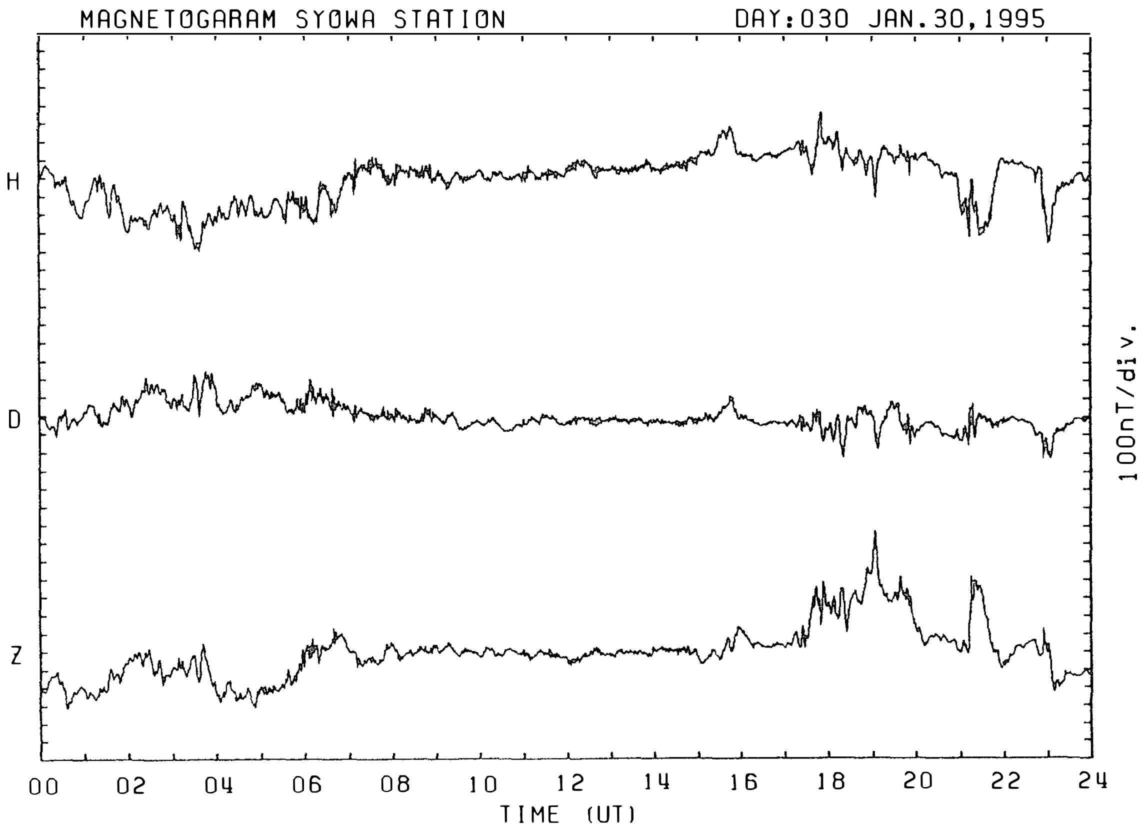

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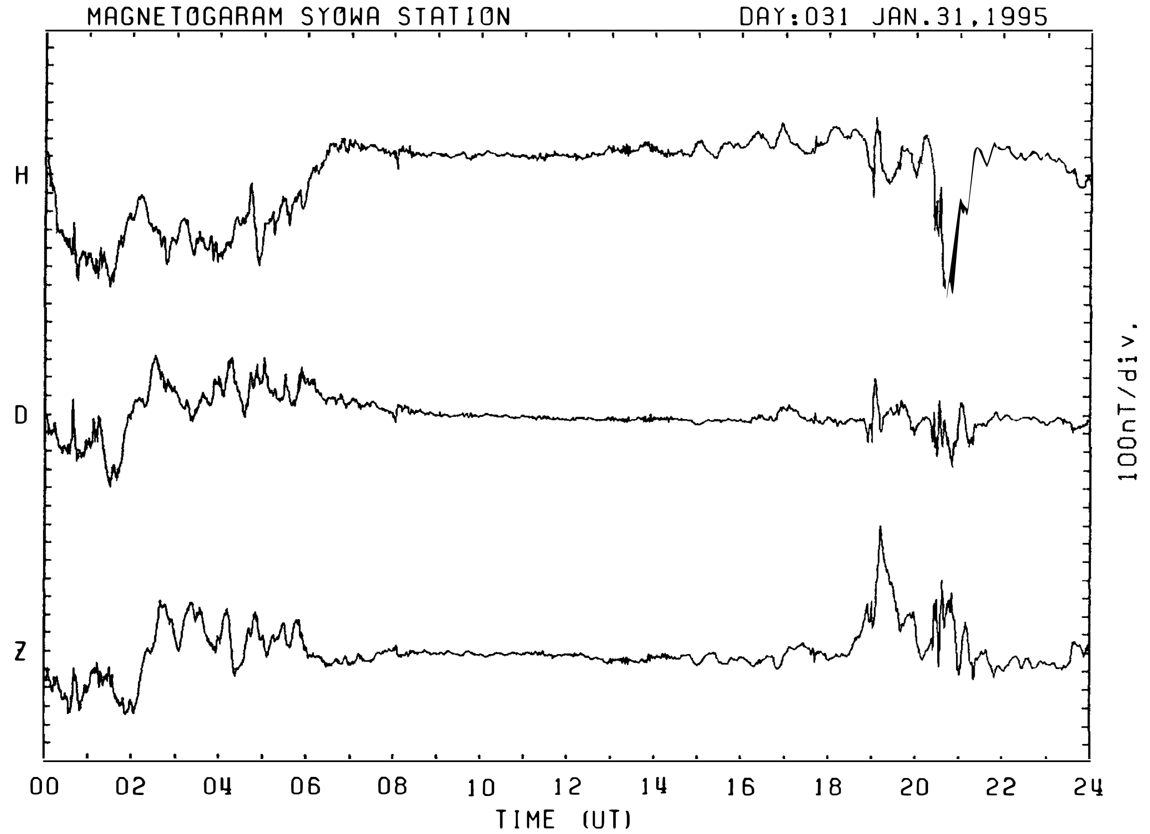
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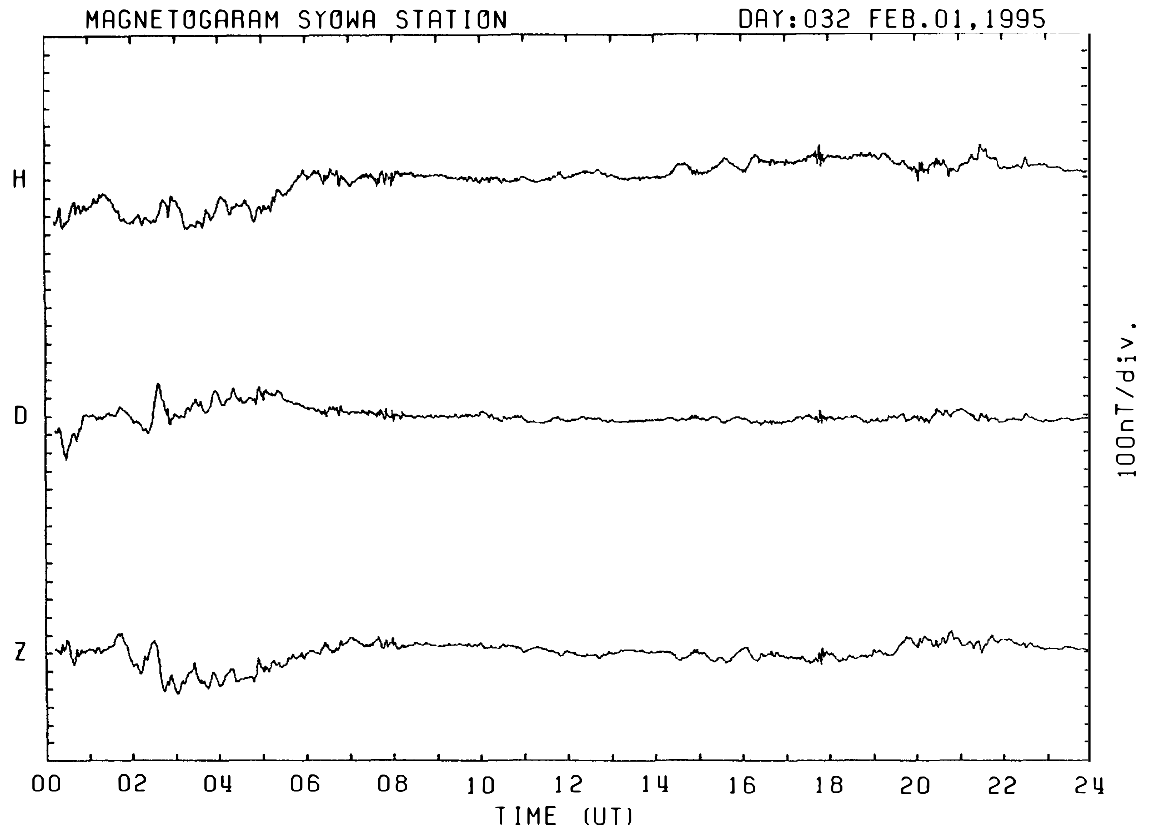
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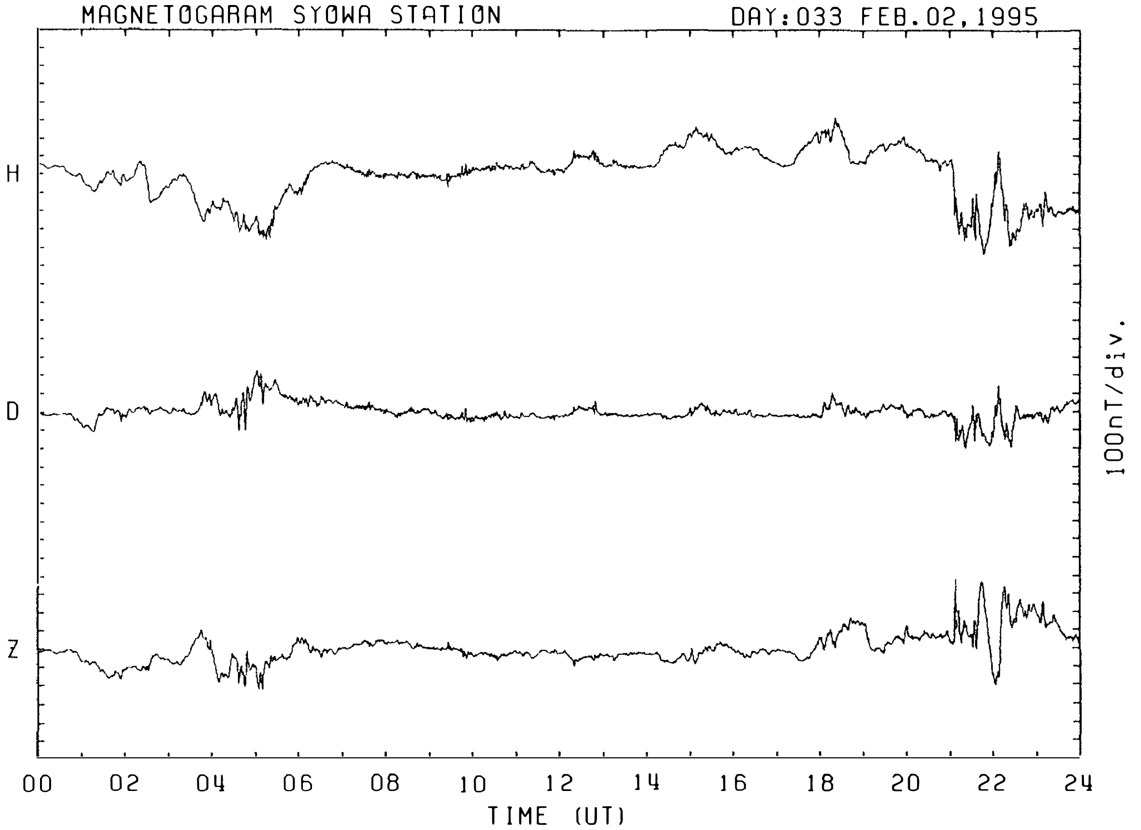
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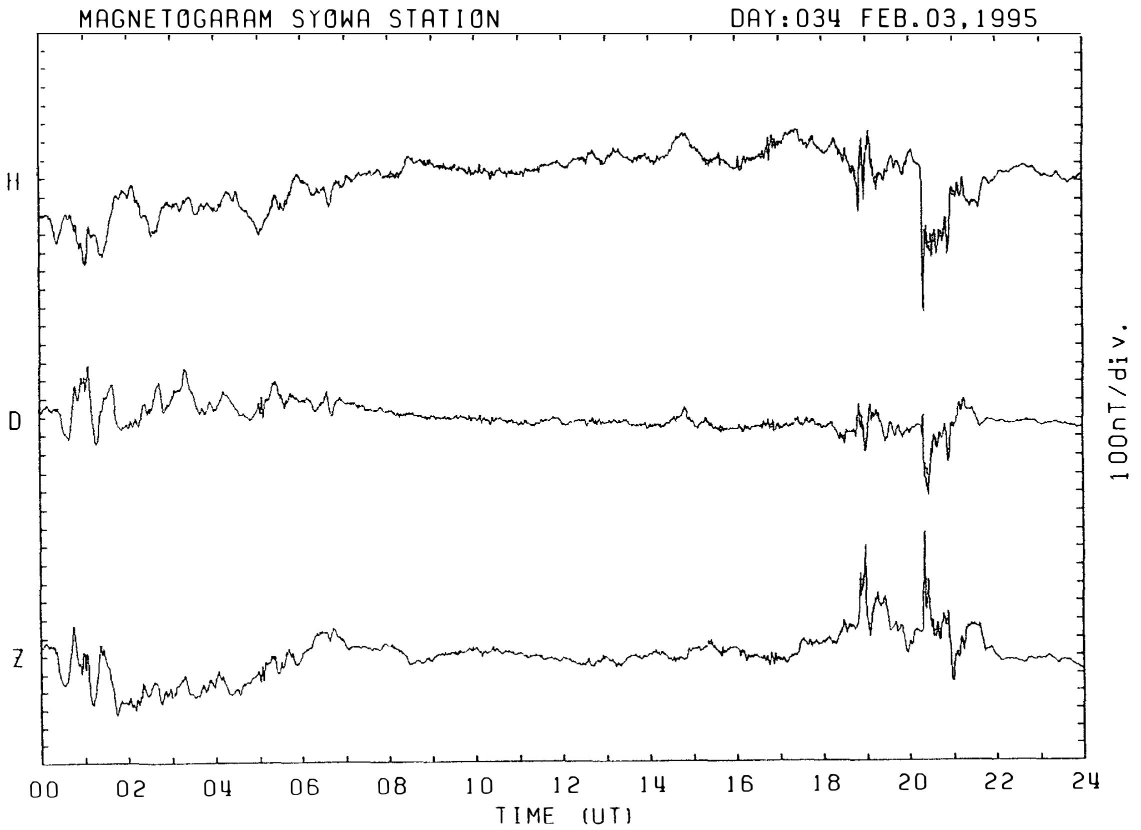
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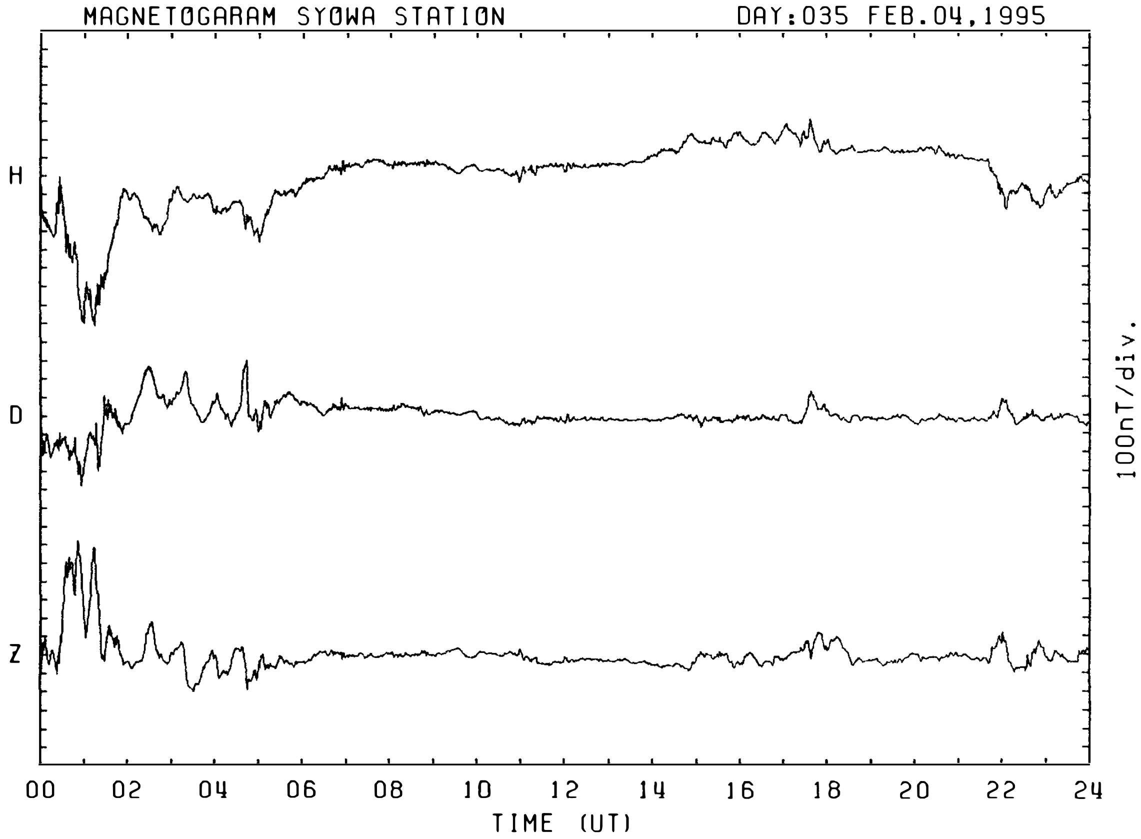
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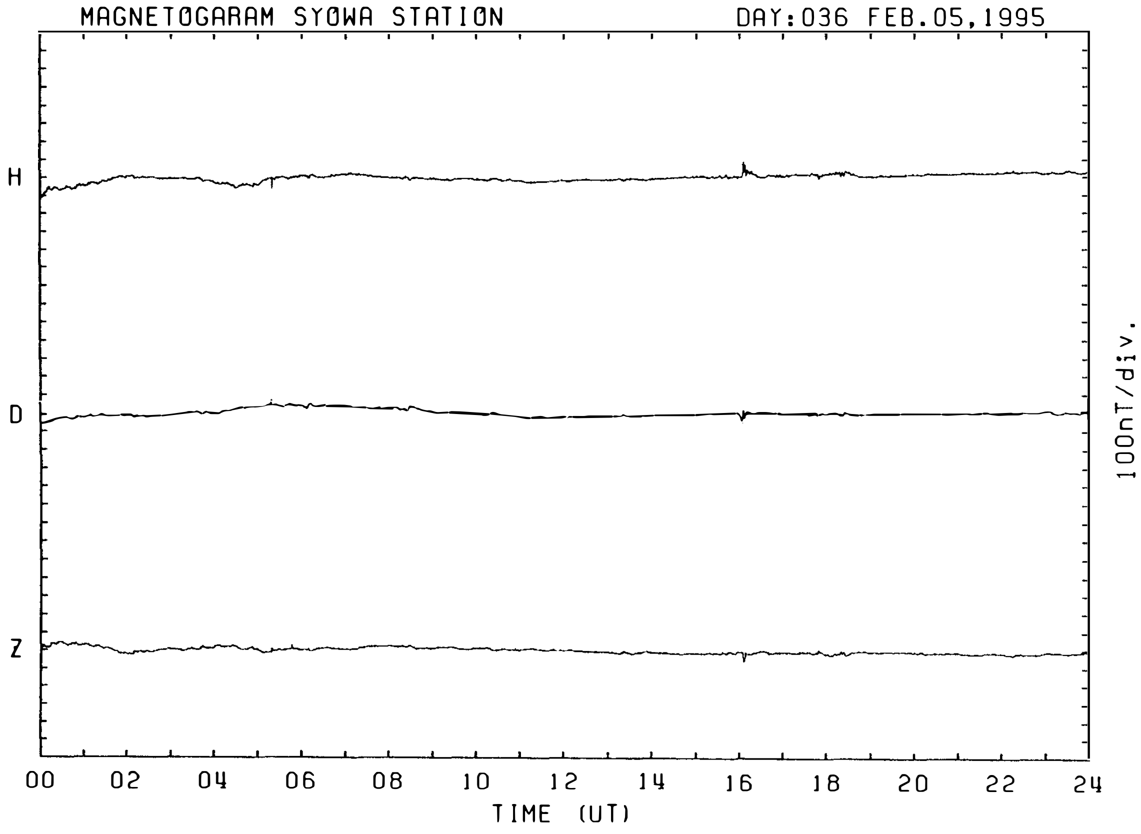
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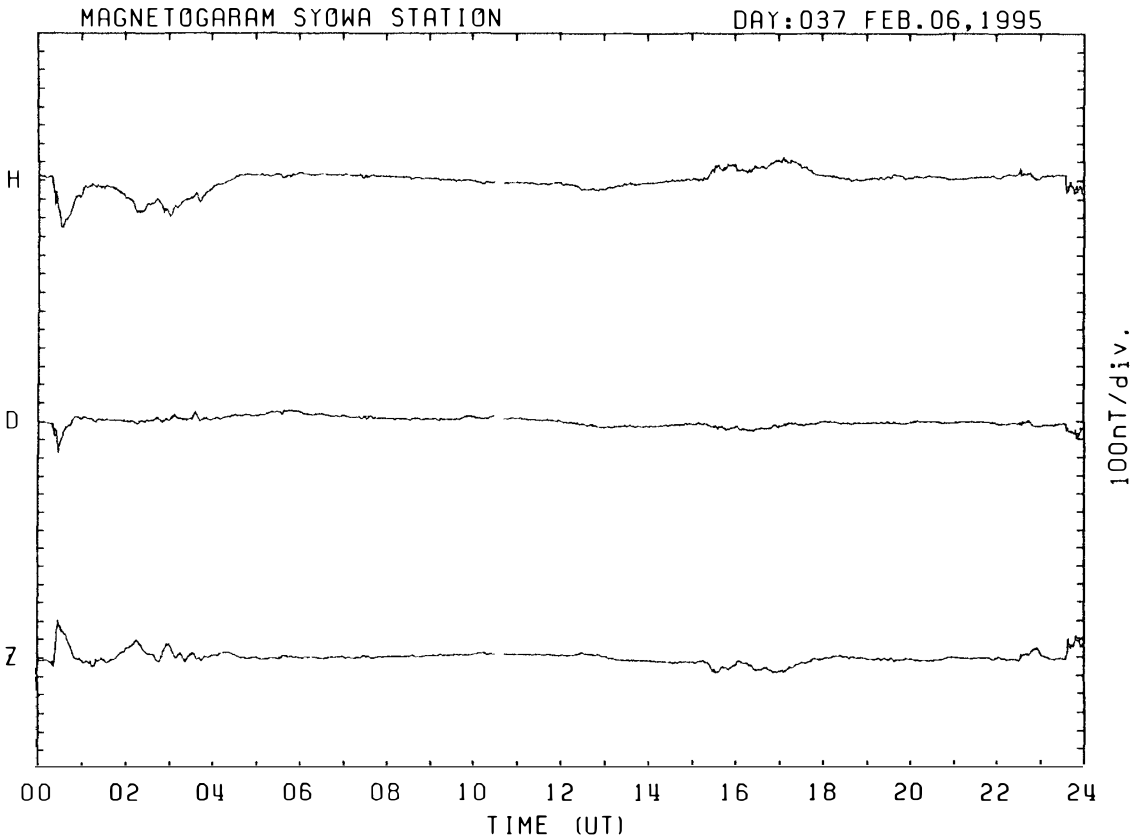
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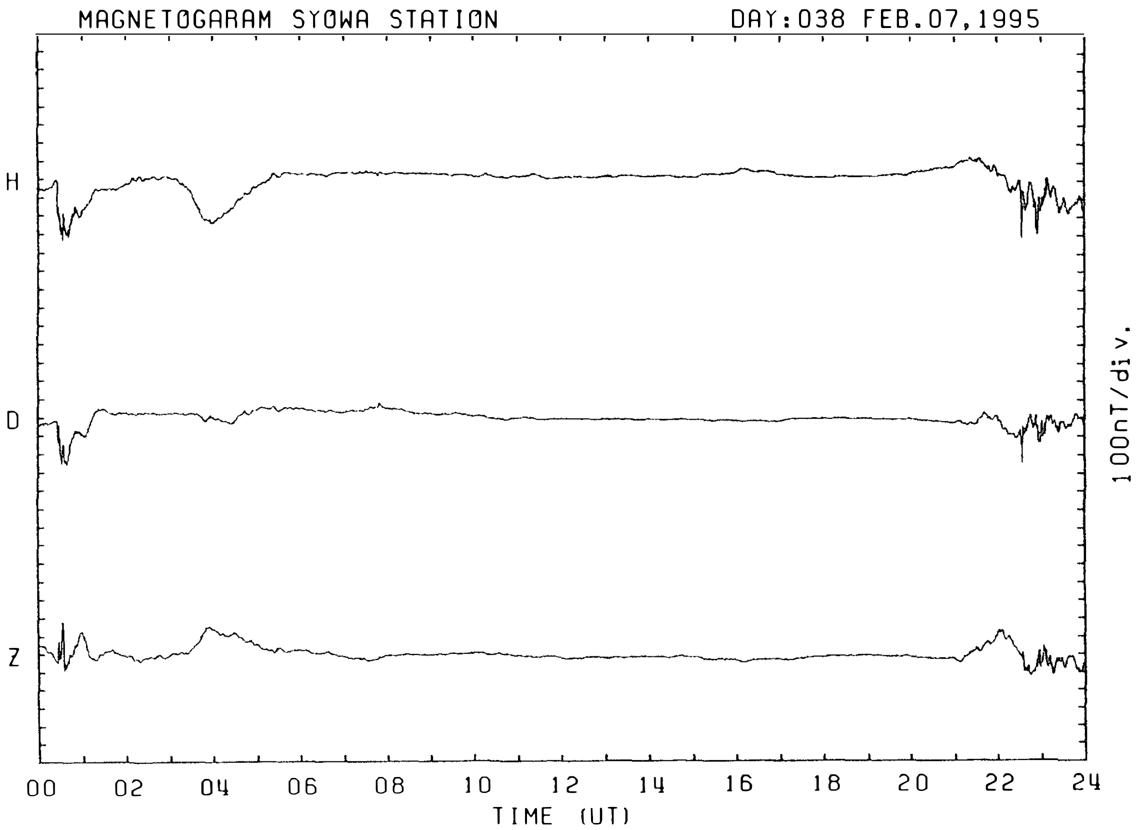
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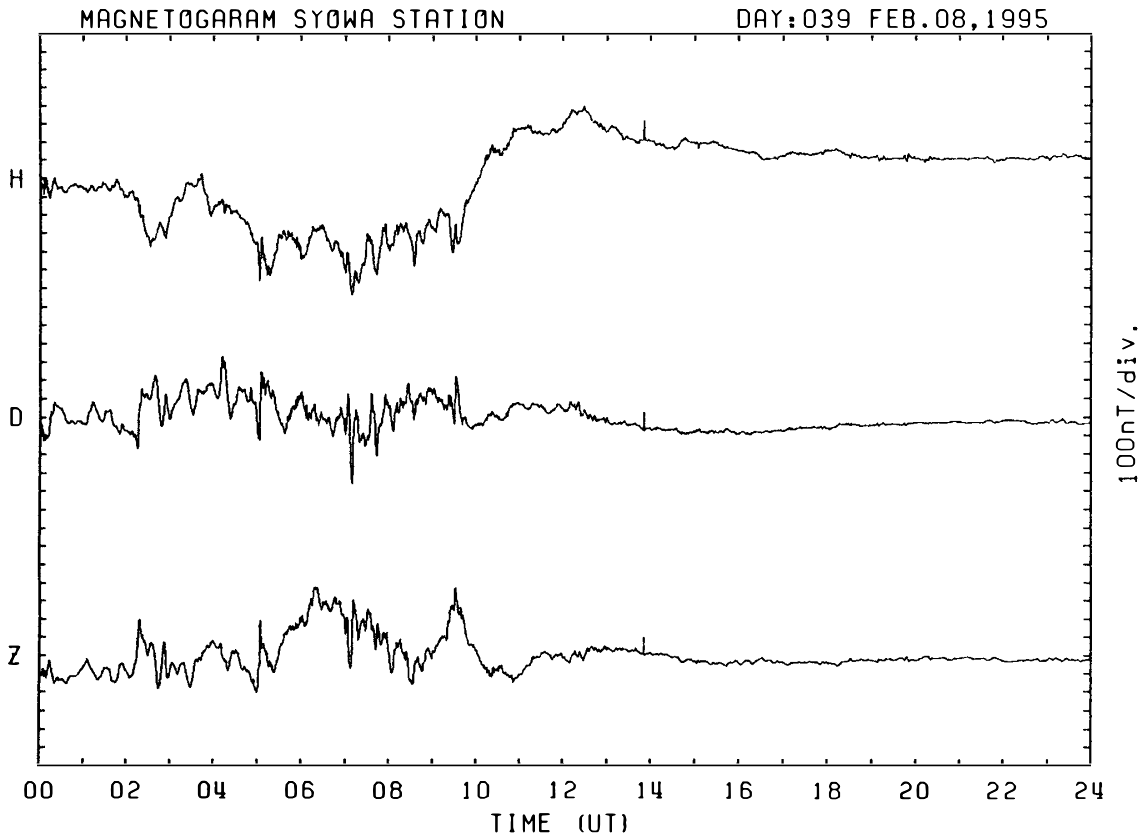

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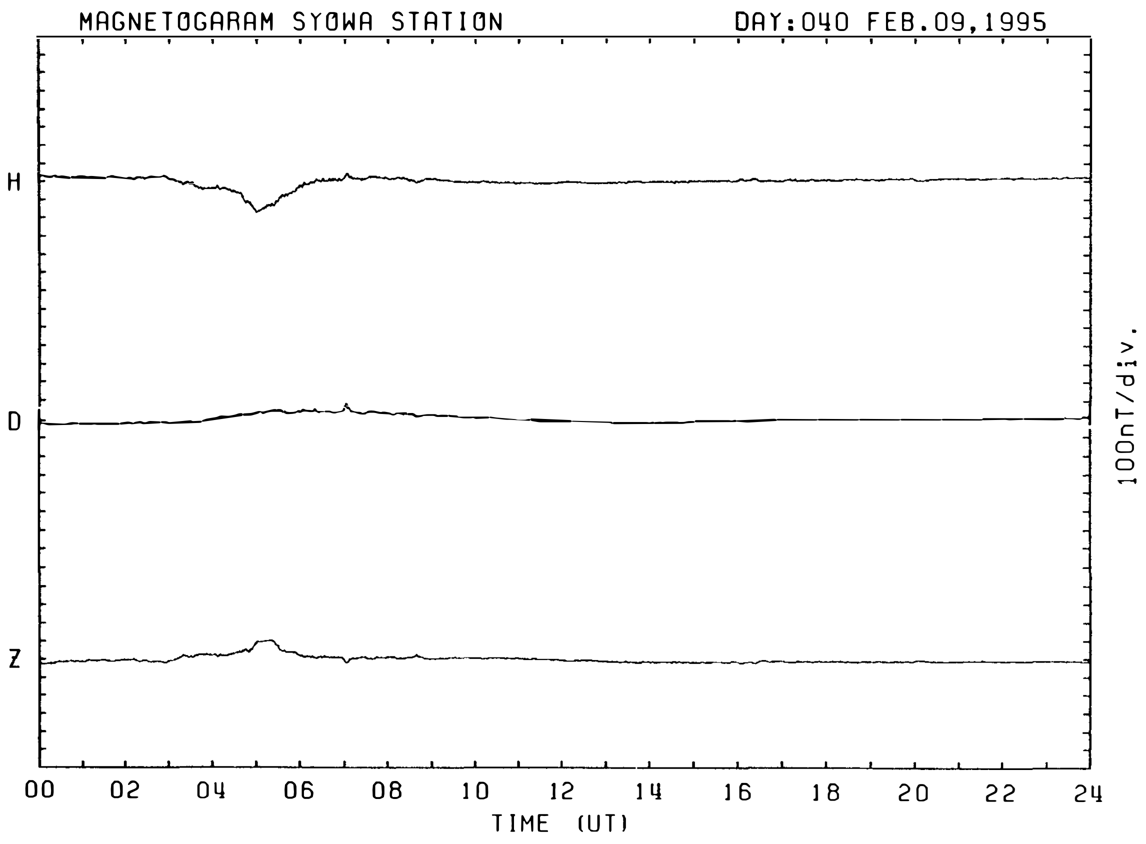

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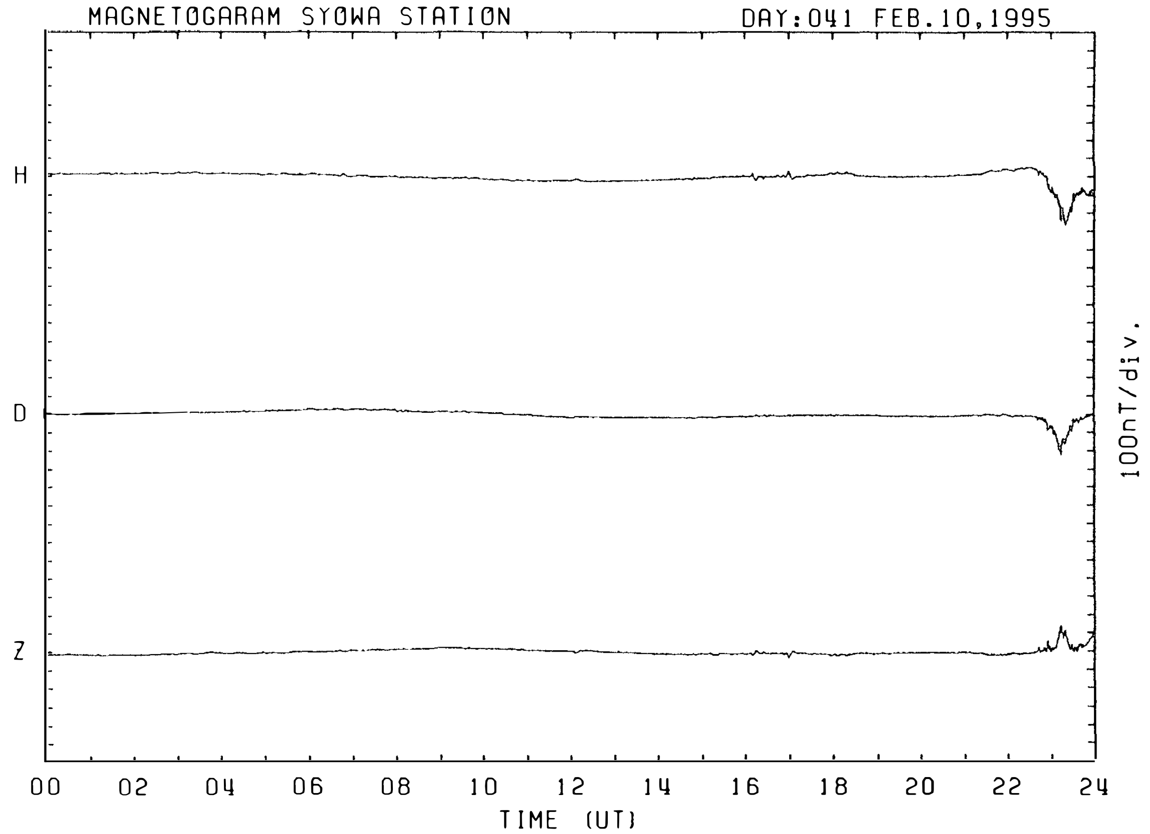
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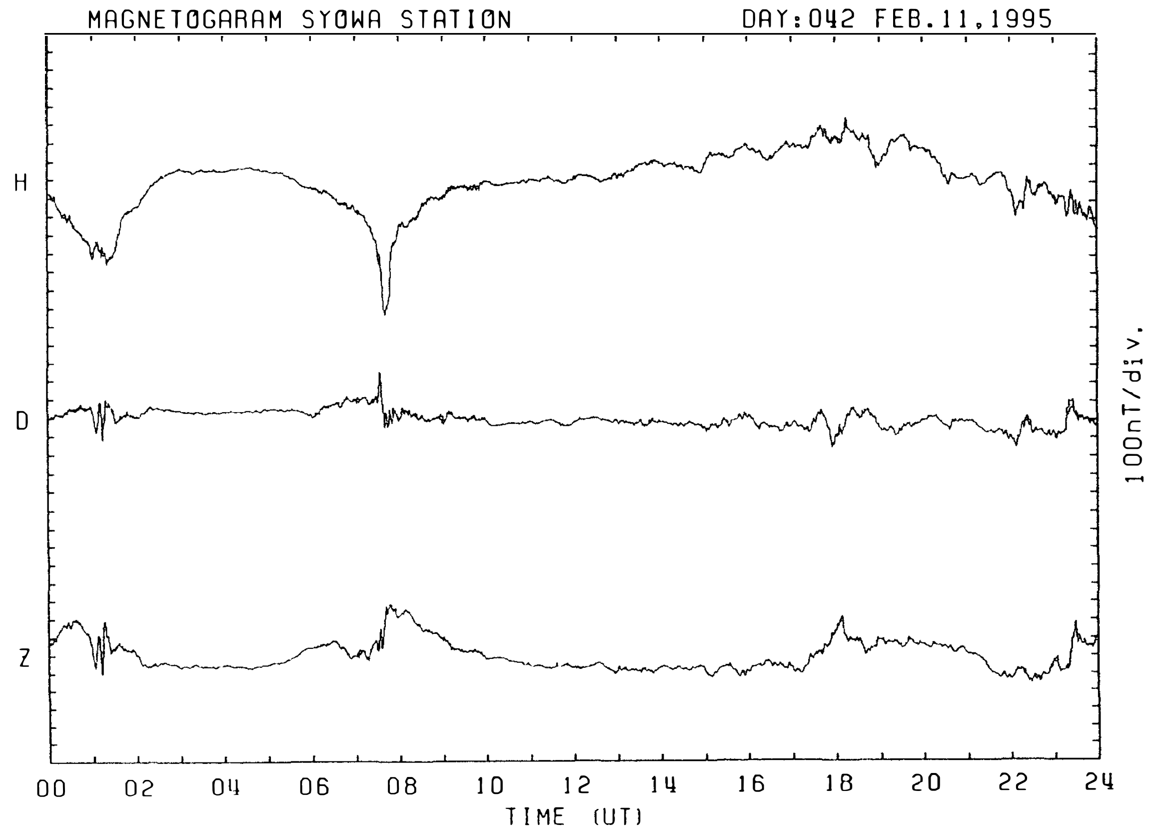
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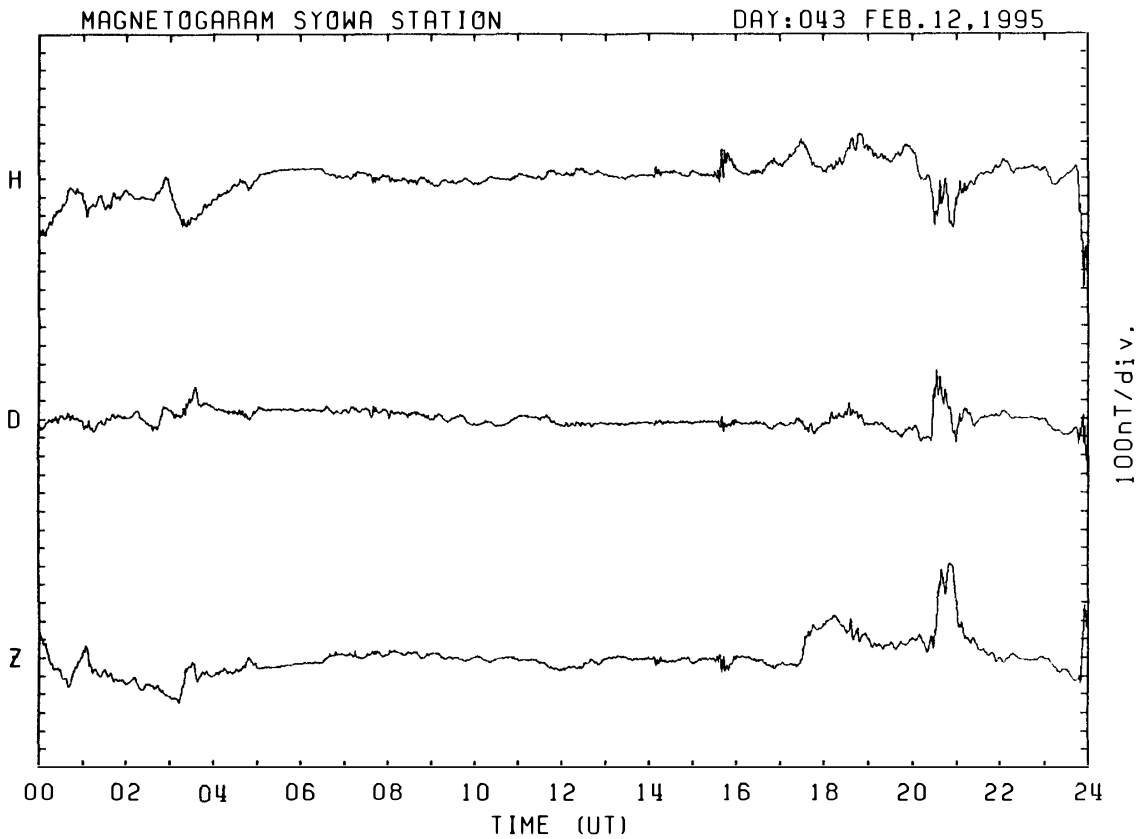
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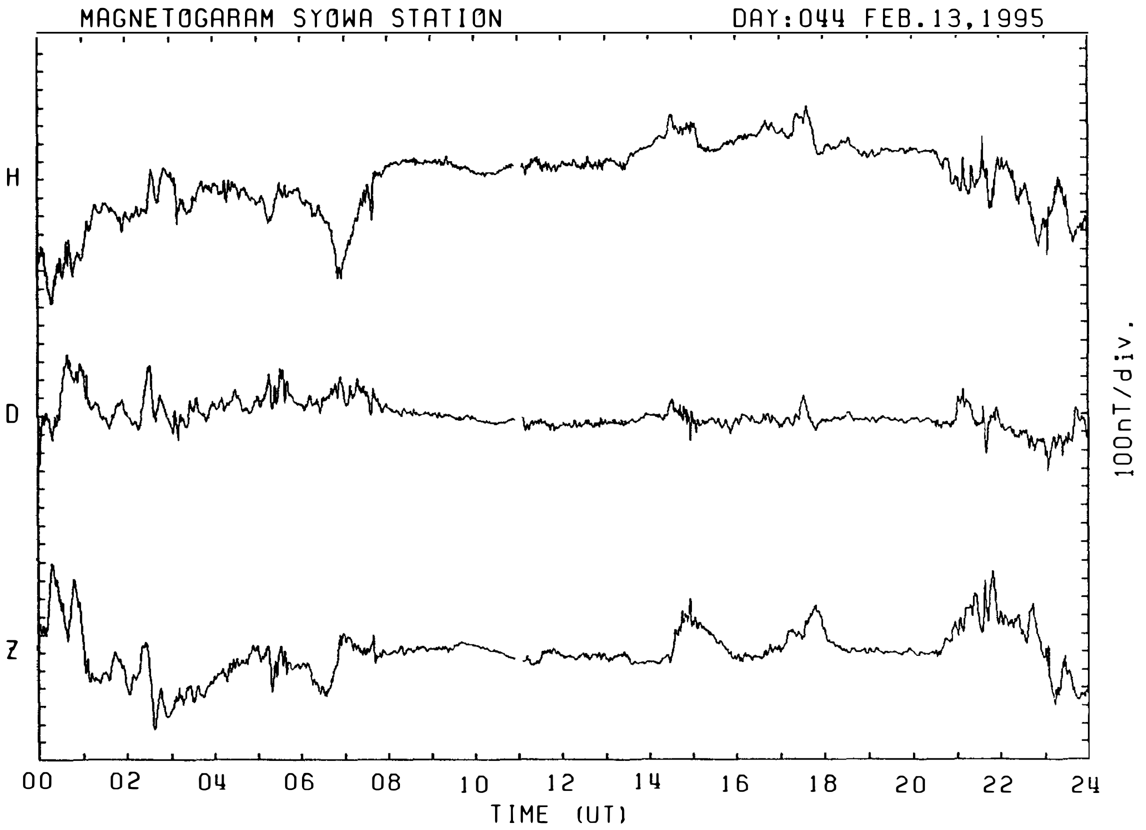
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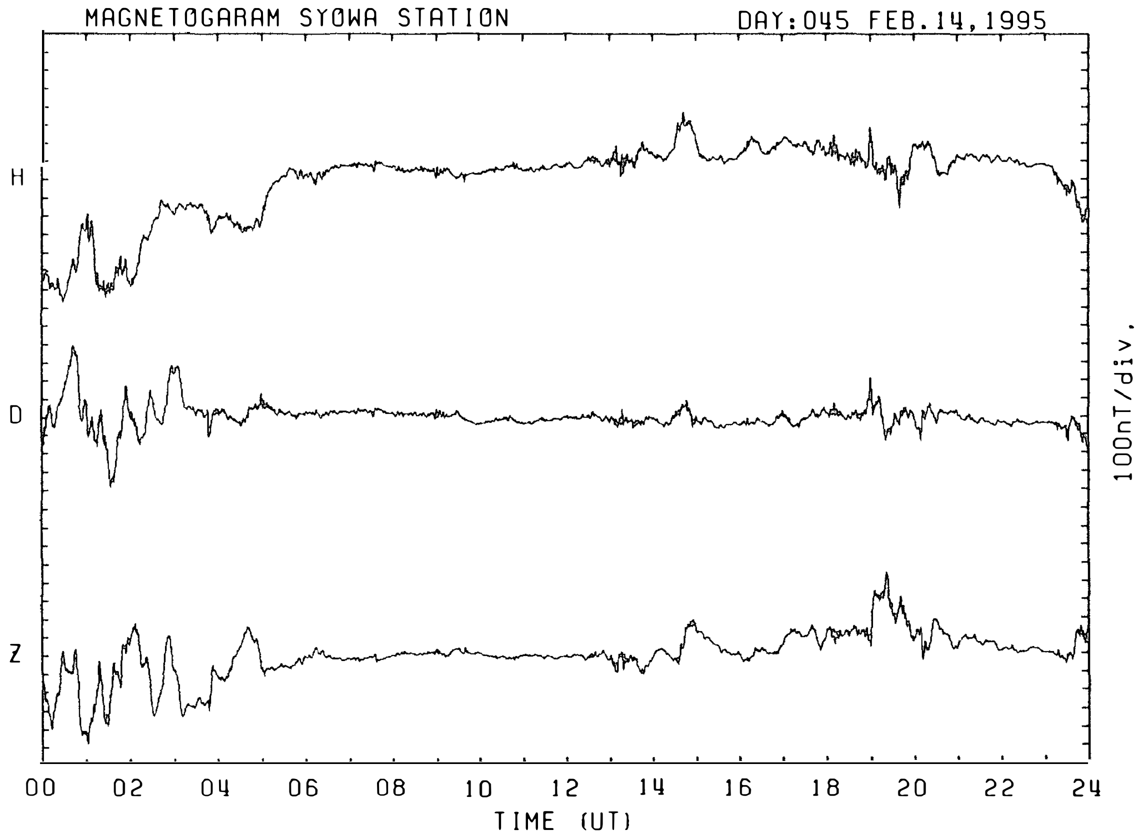
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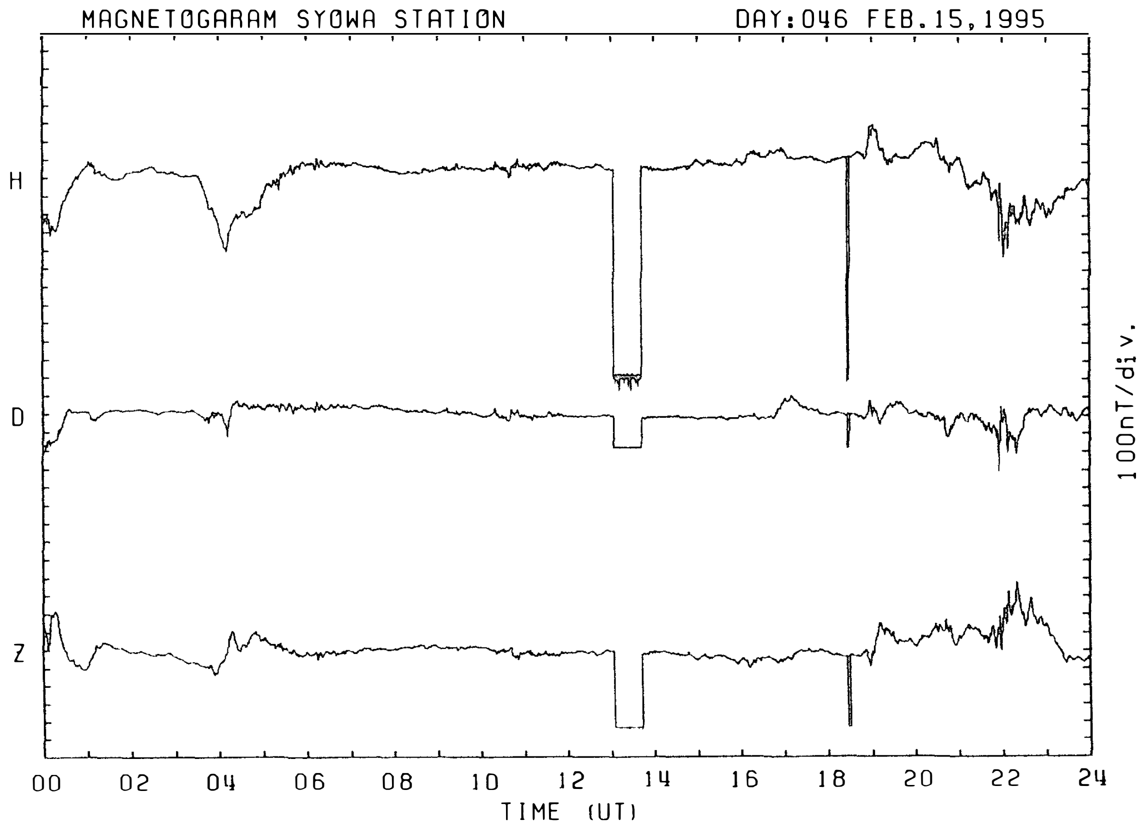
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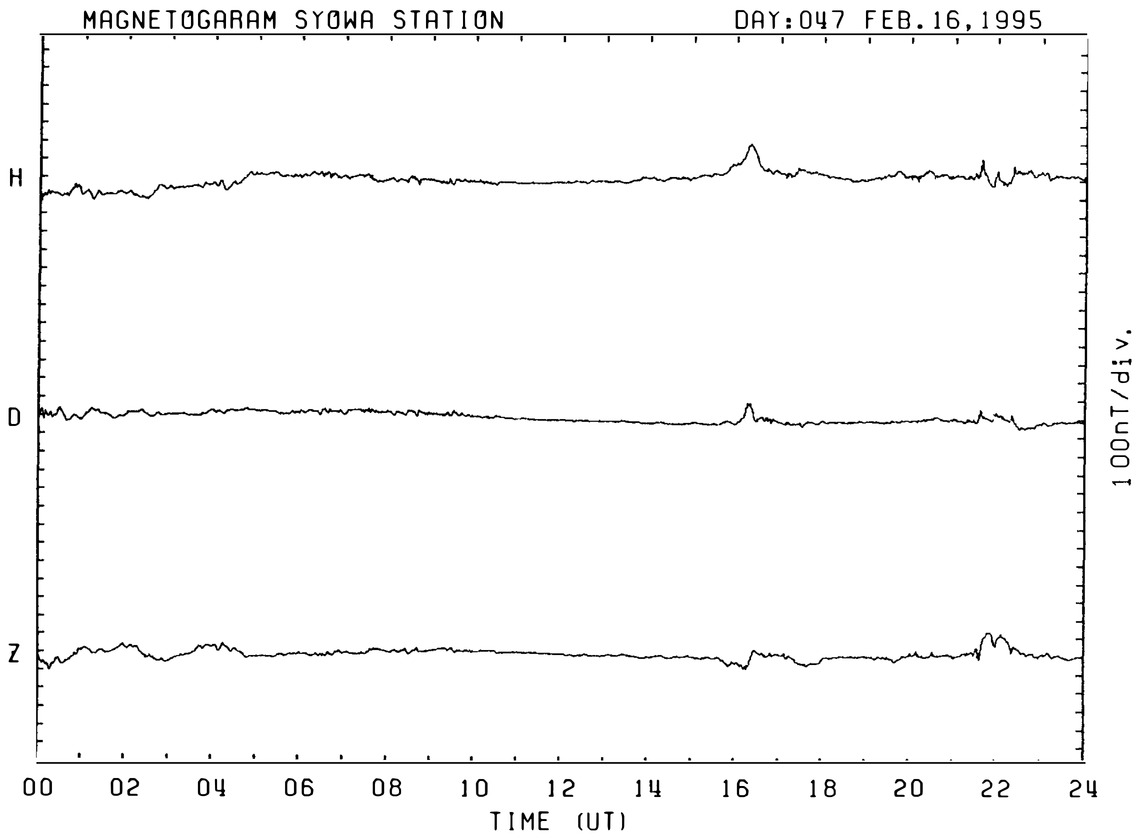
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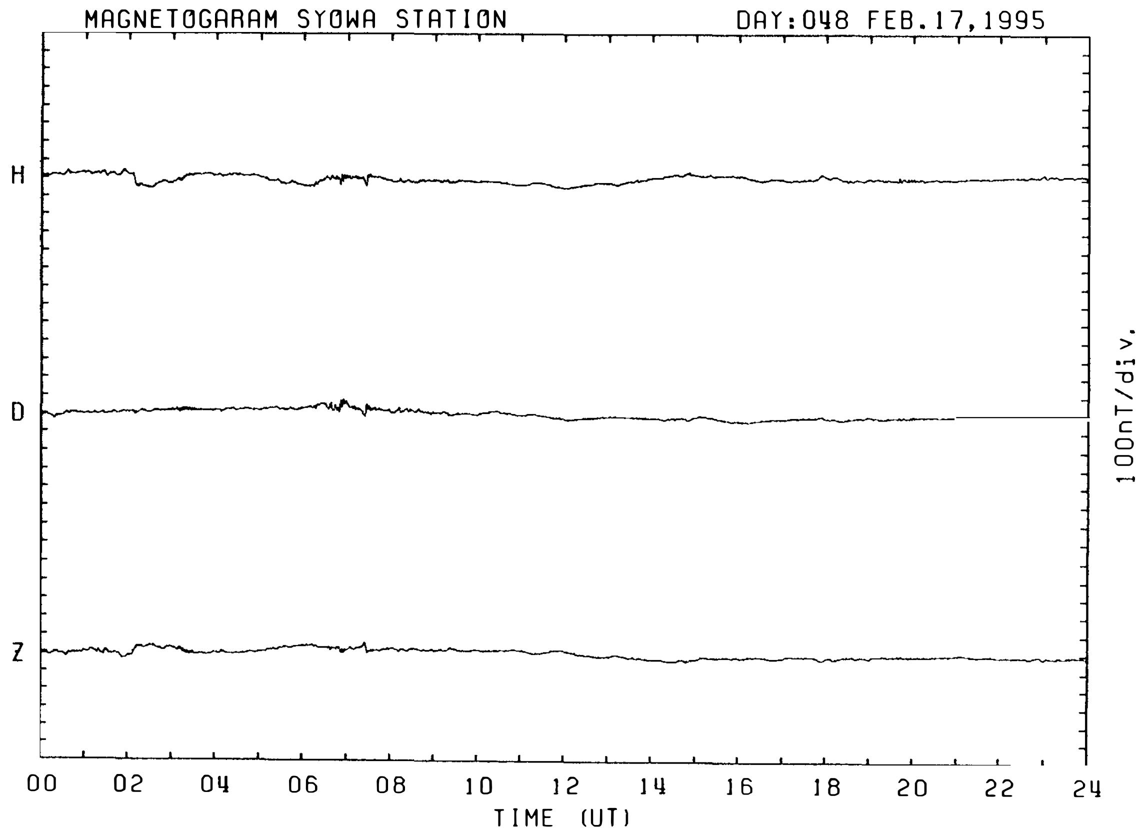
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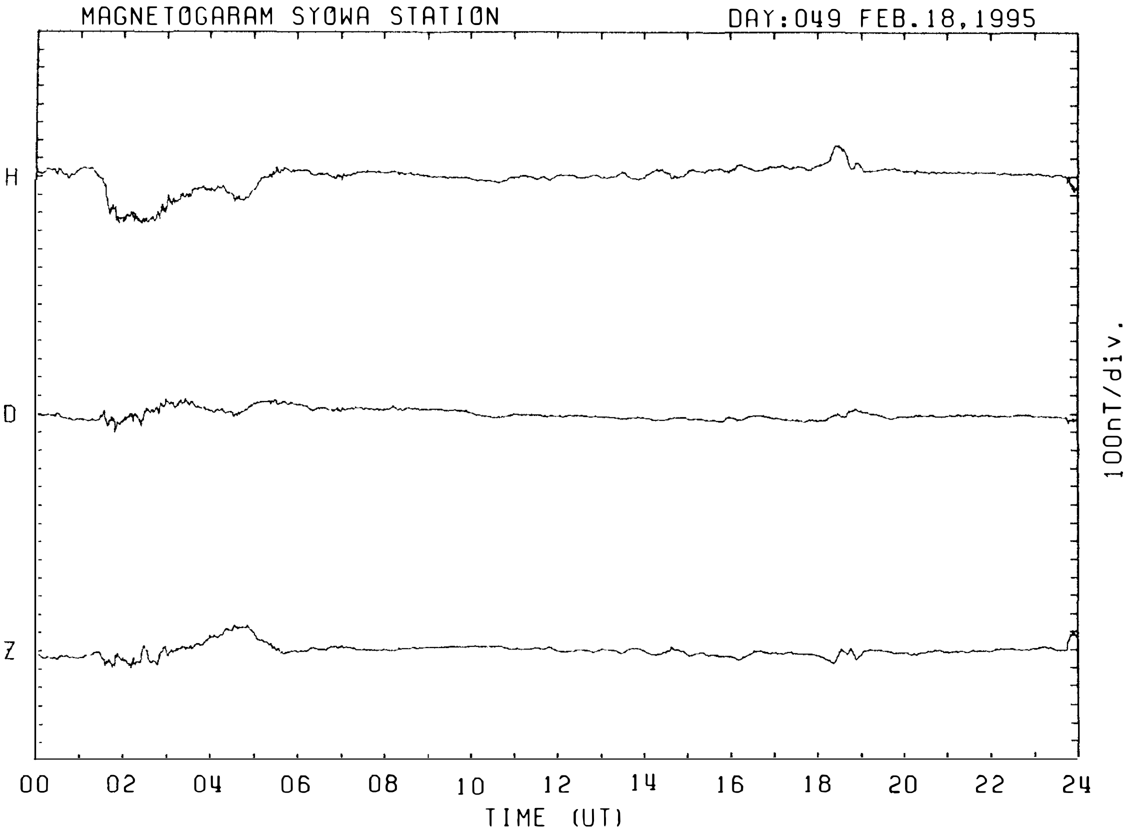
TIME (UT)



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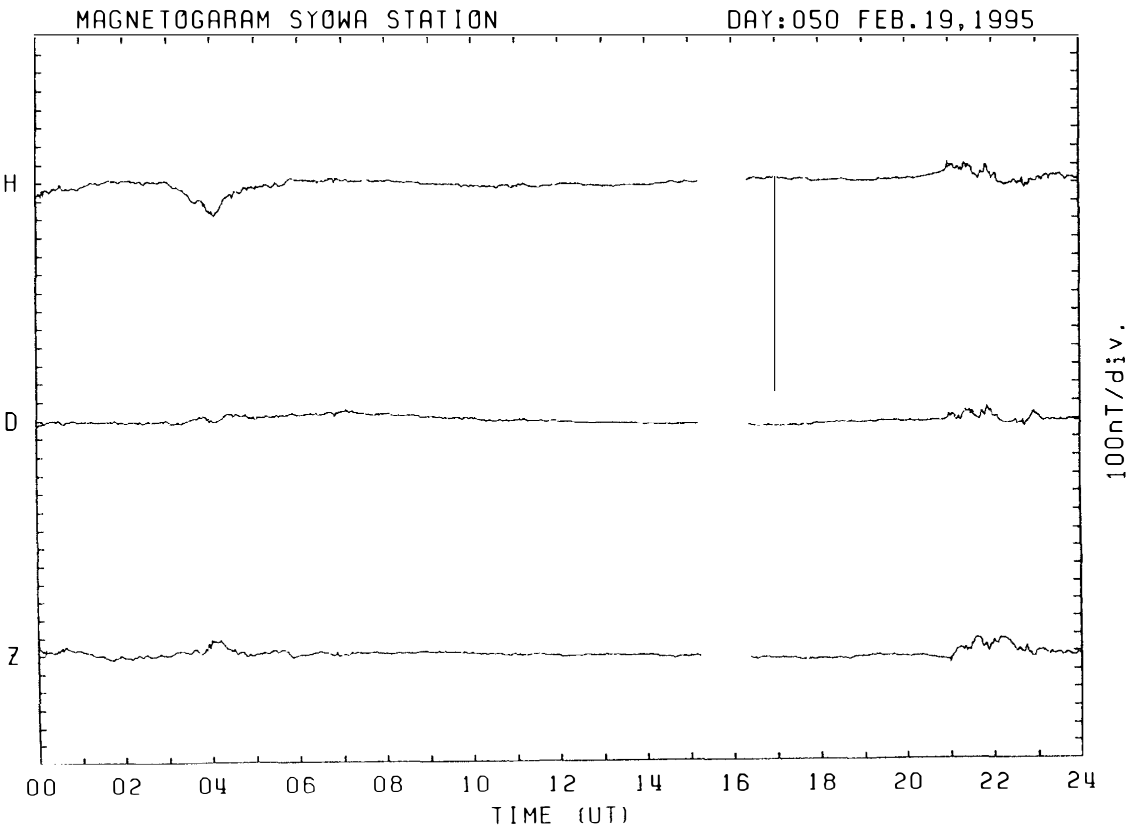

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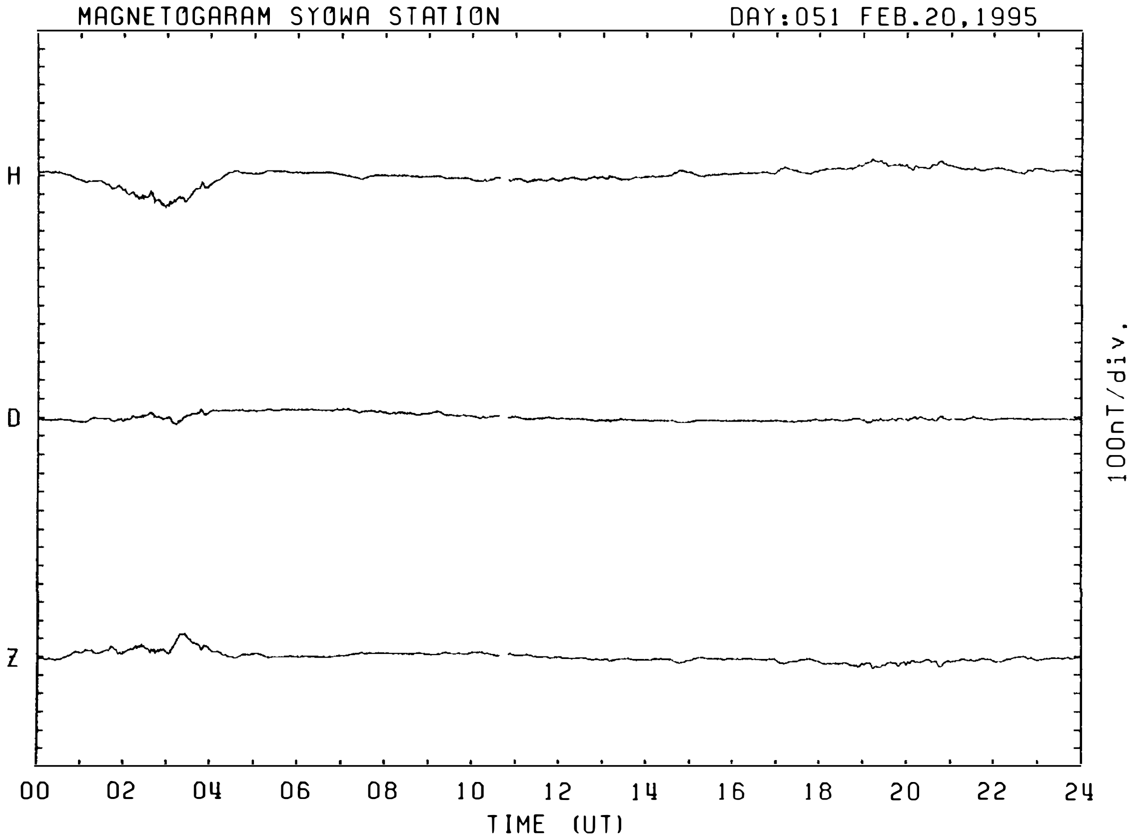

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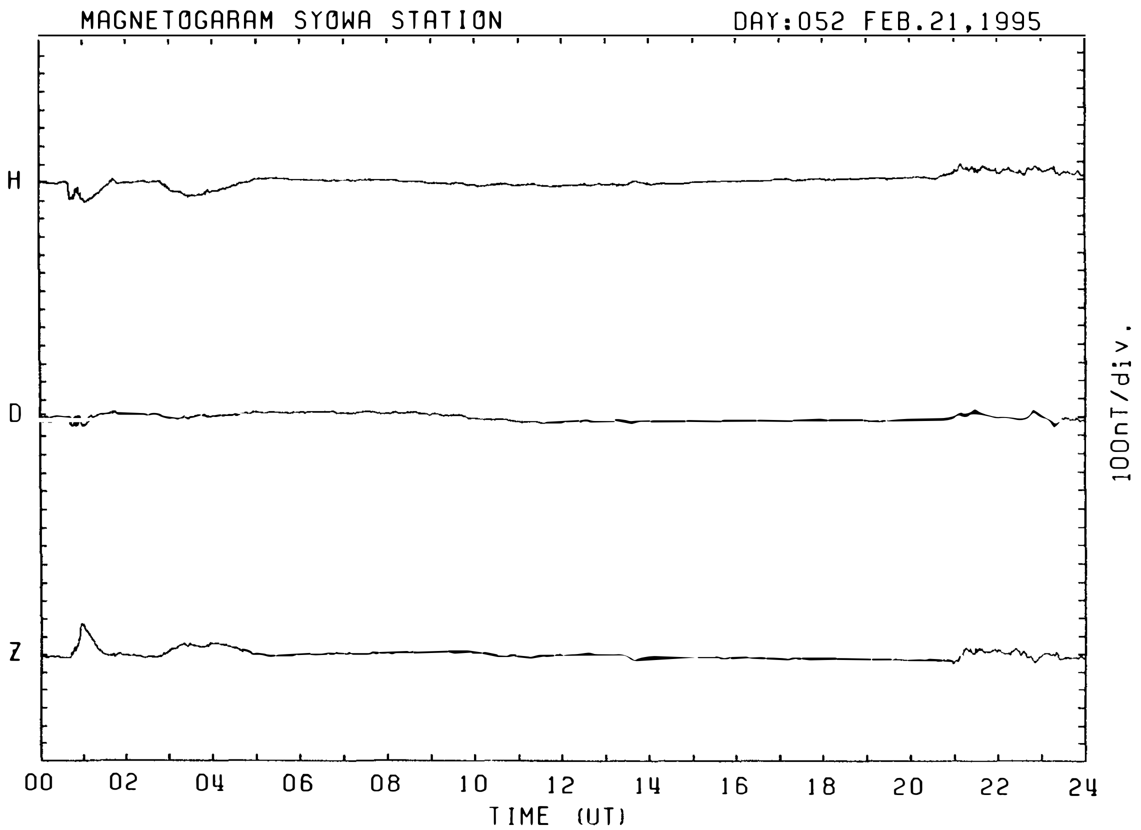

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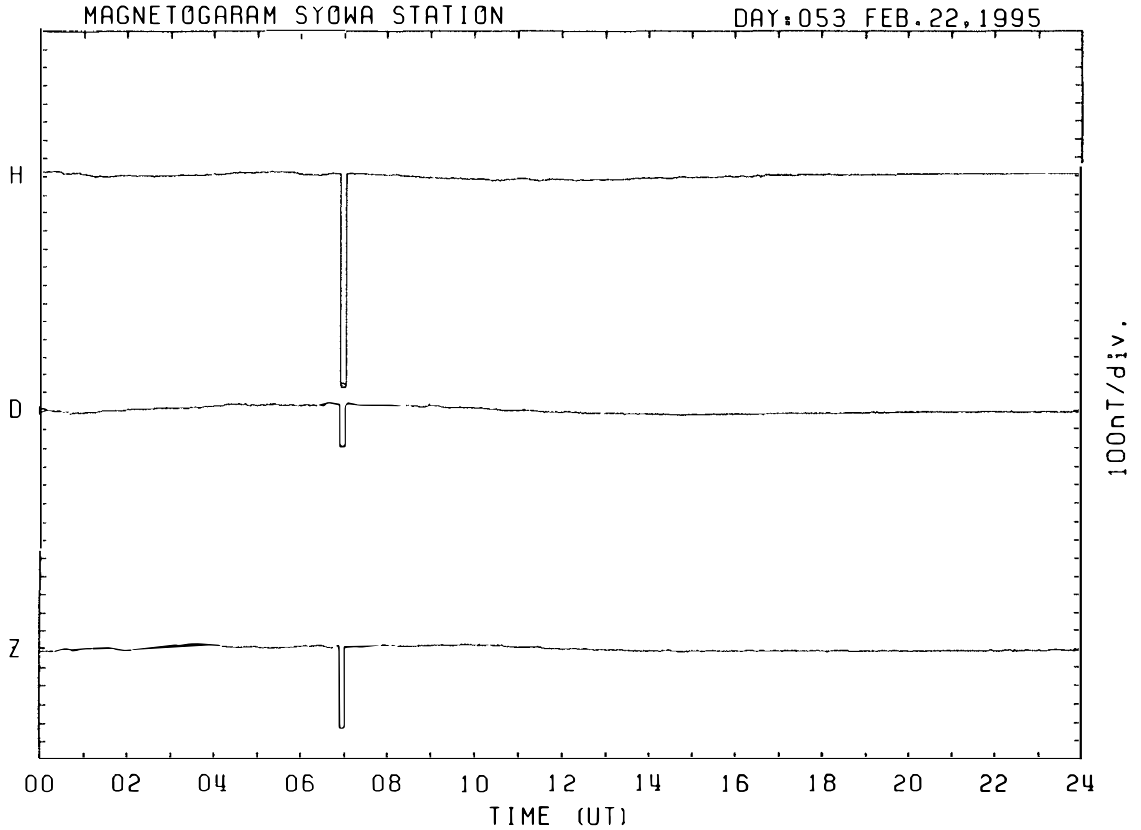
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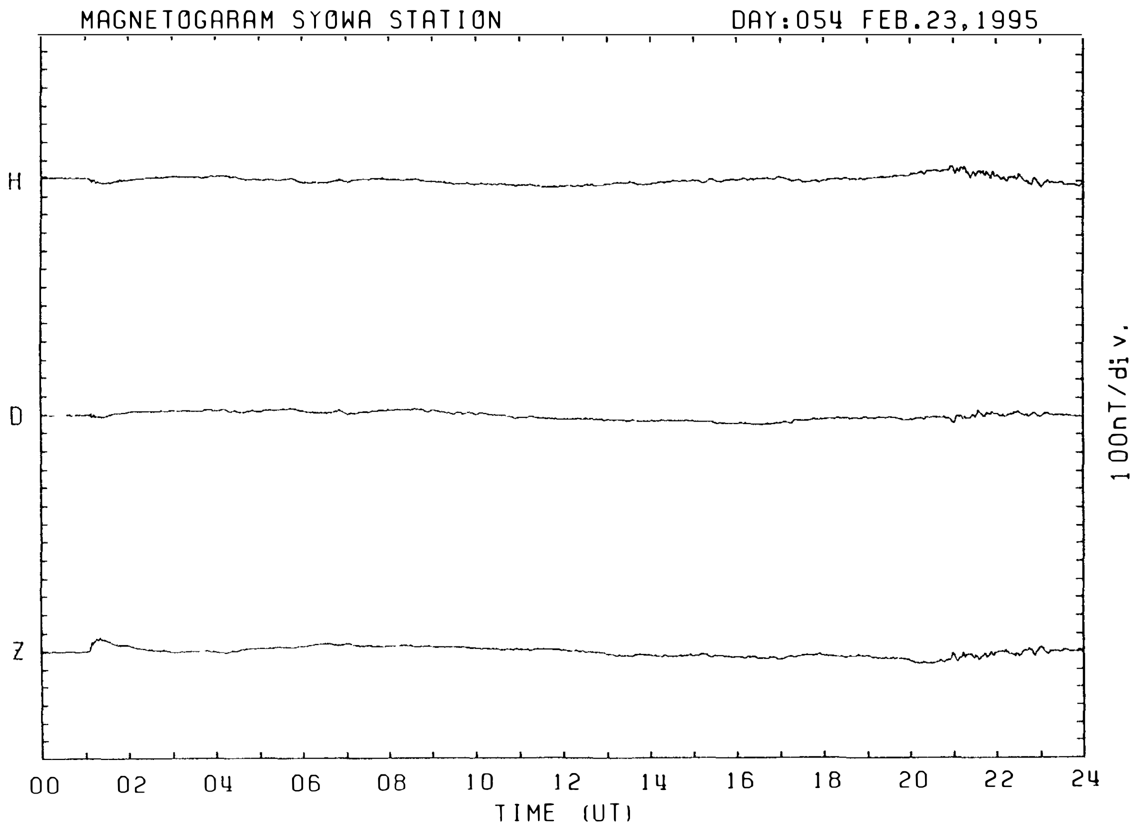
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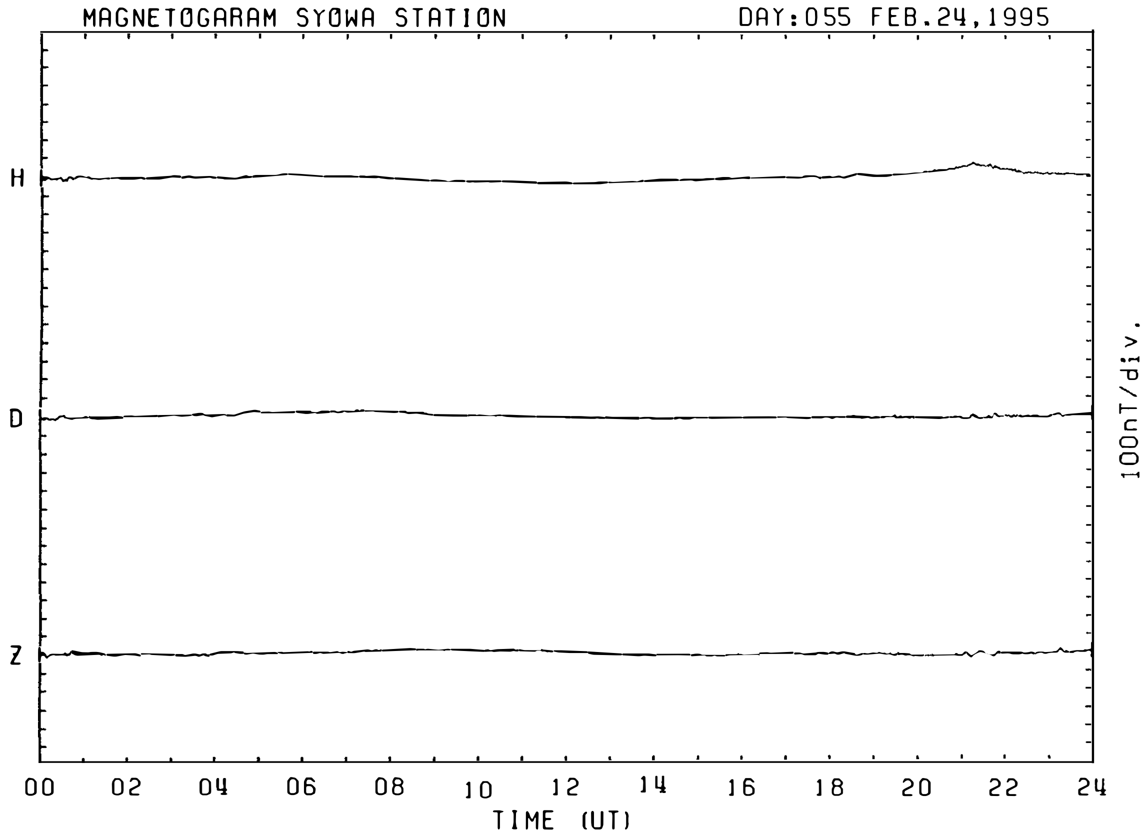
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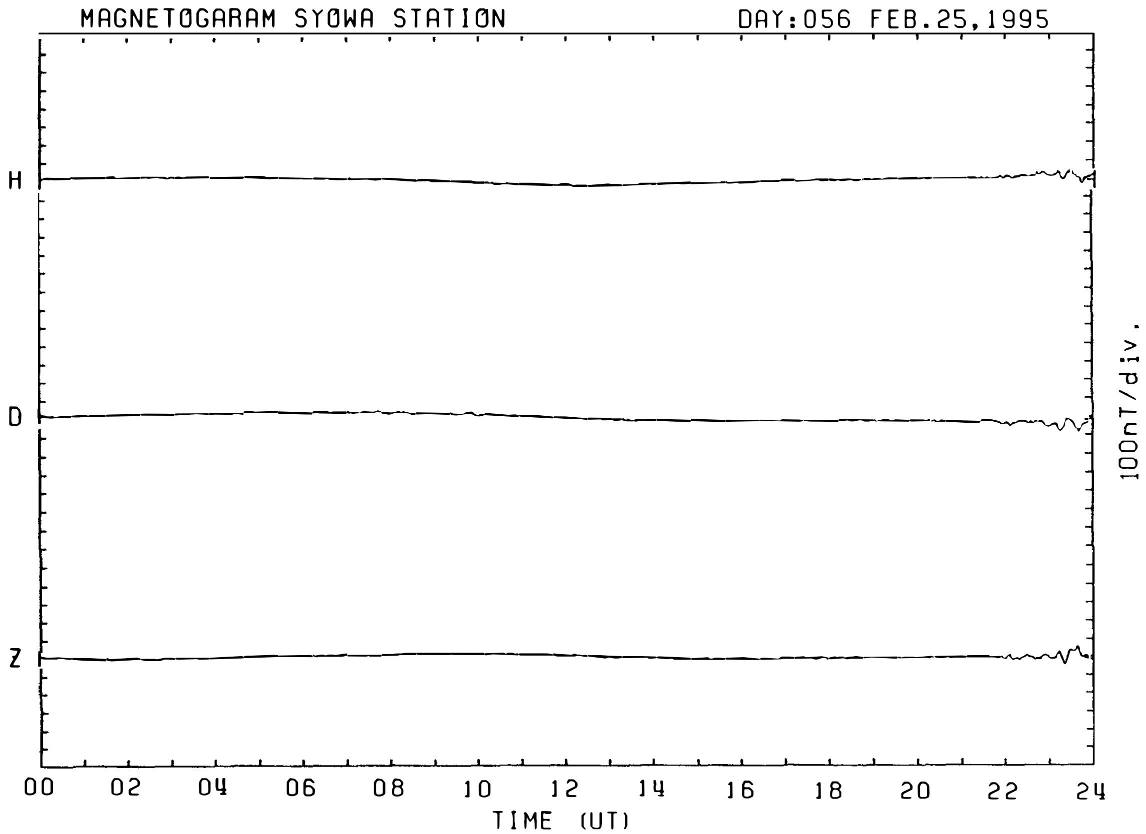
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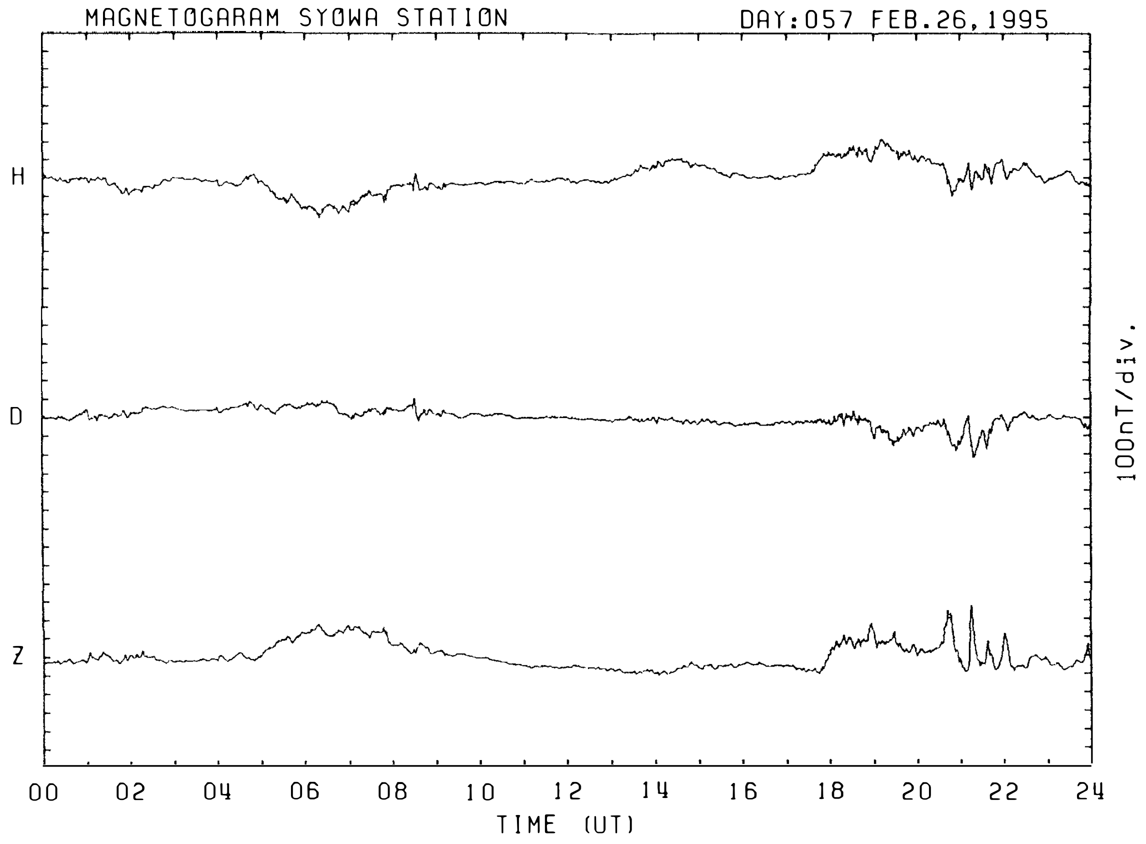
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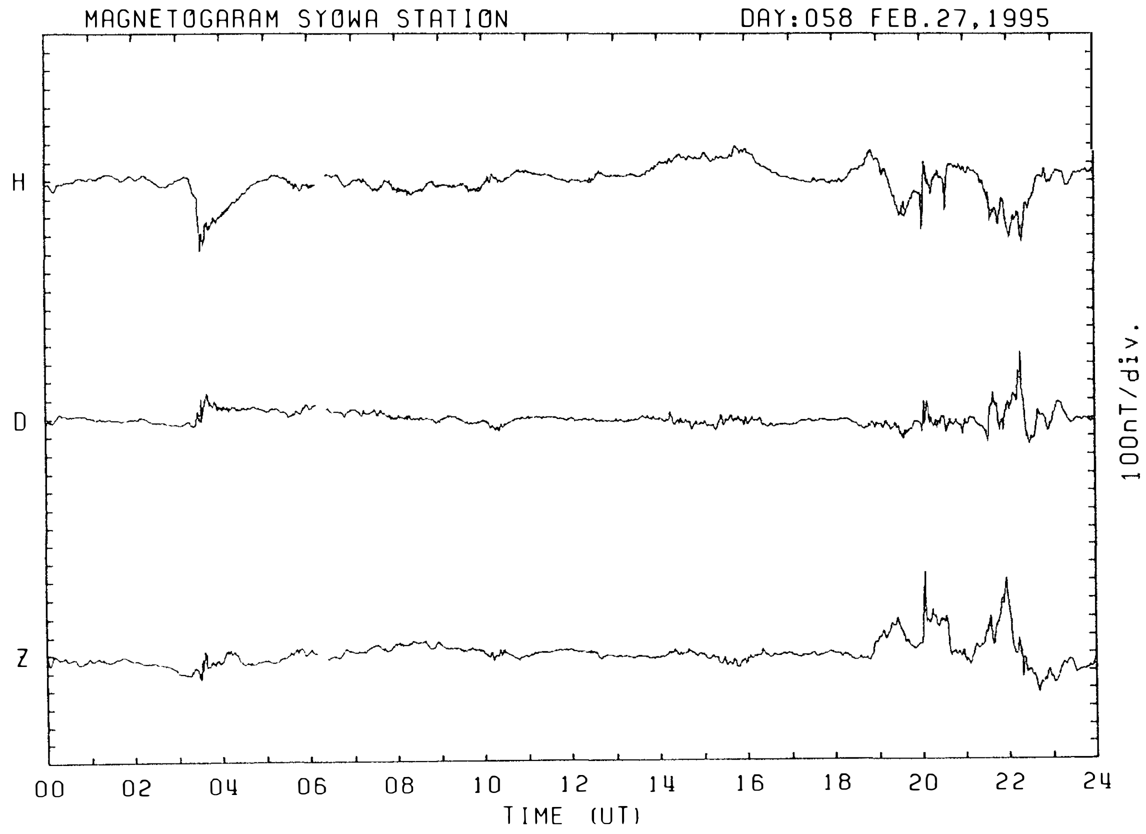
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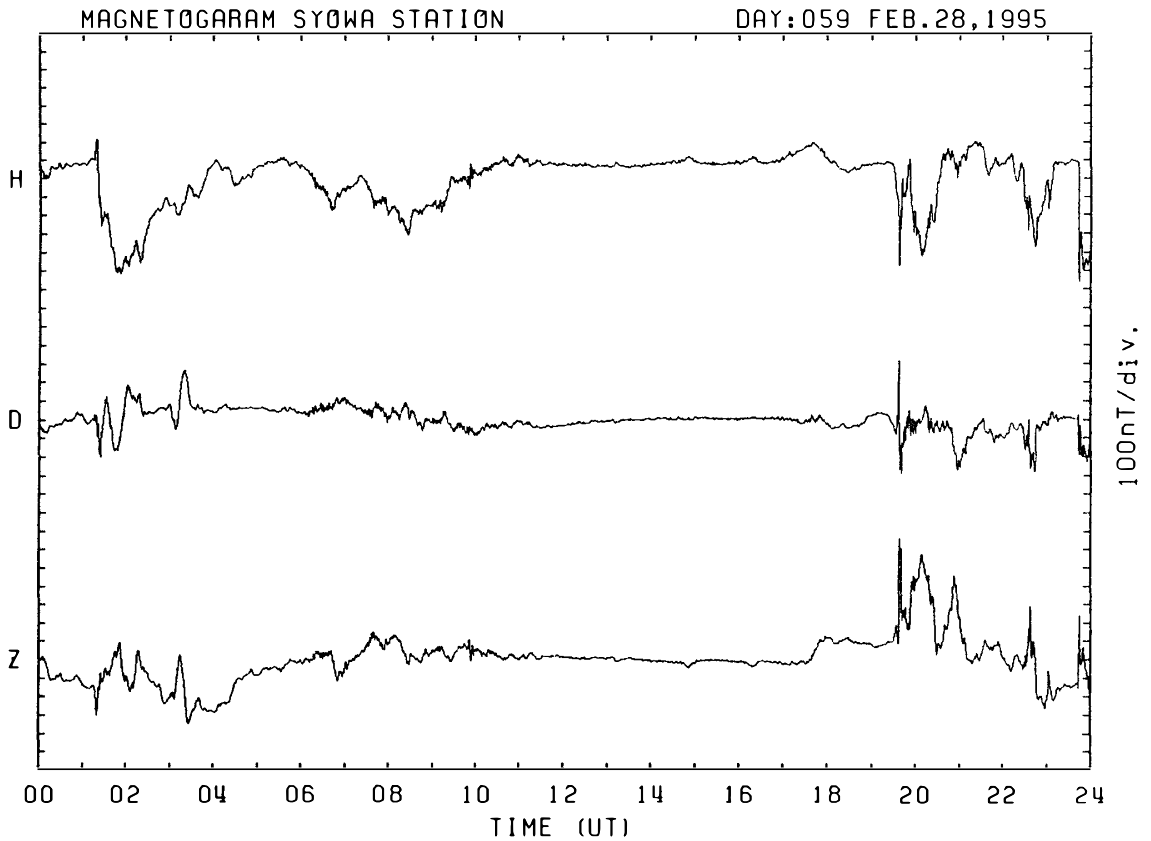
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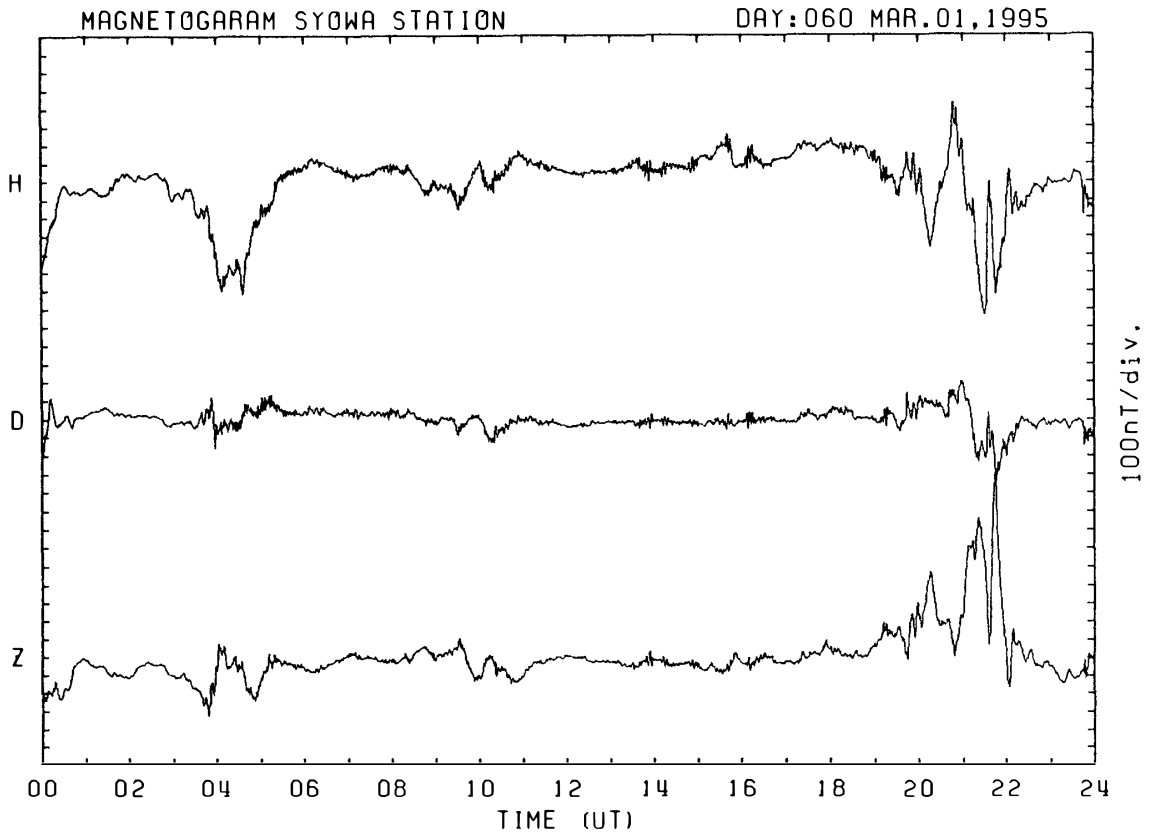
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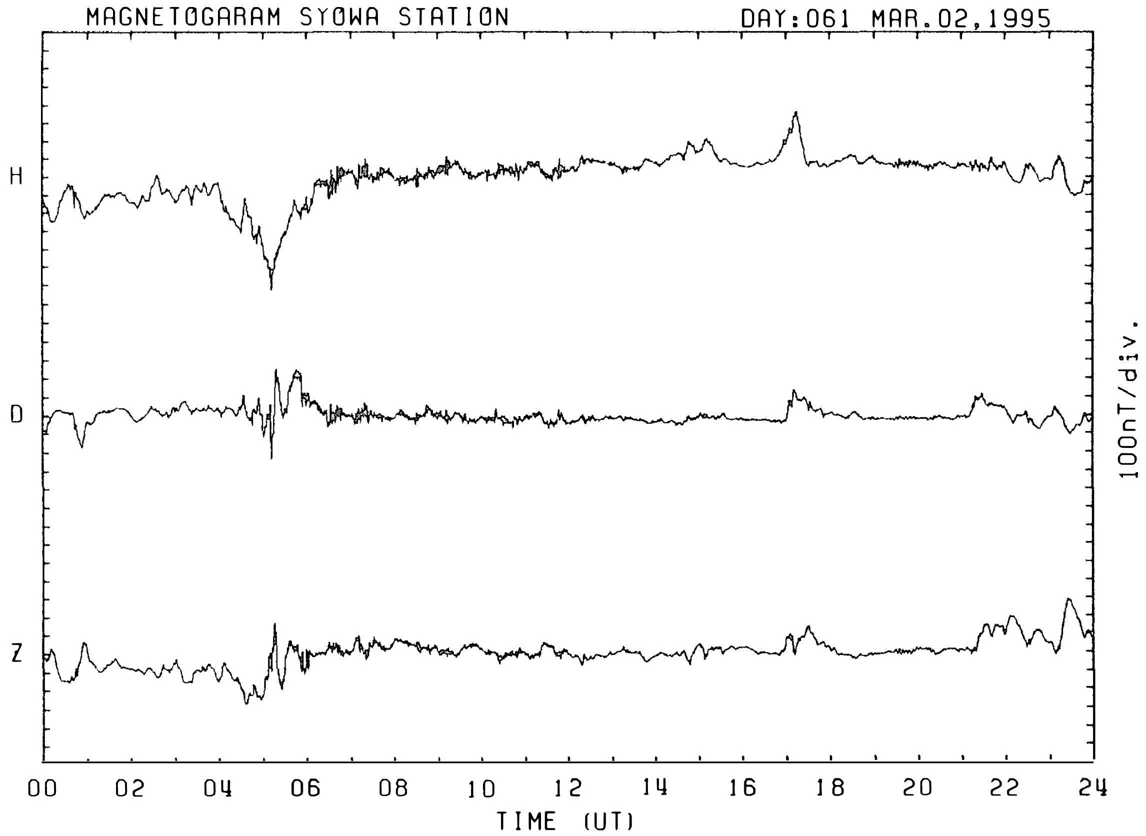
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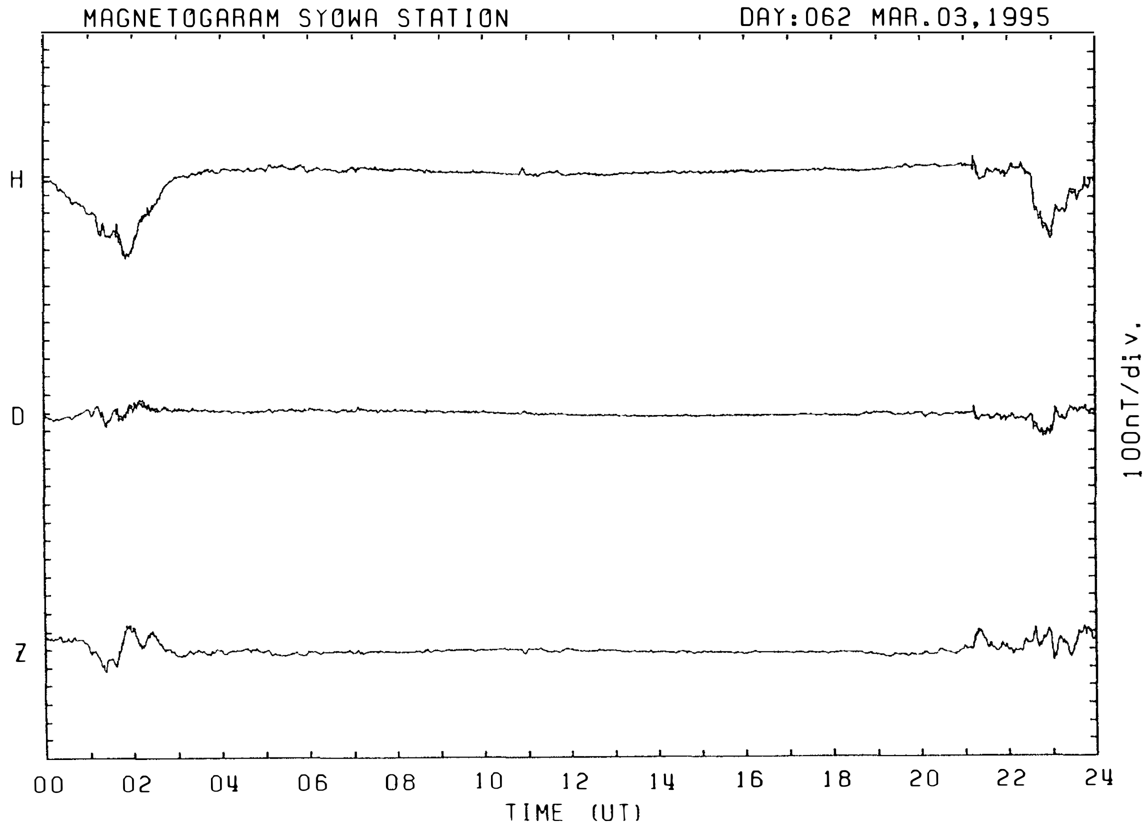
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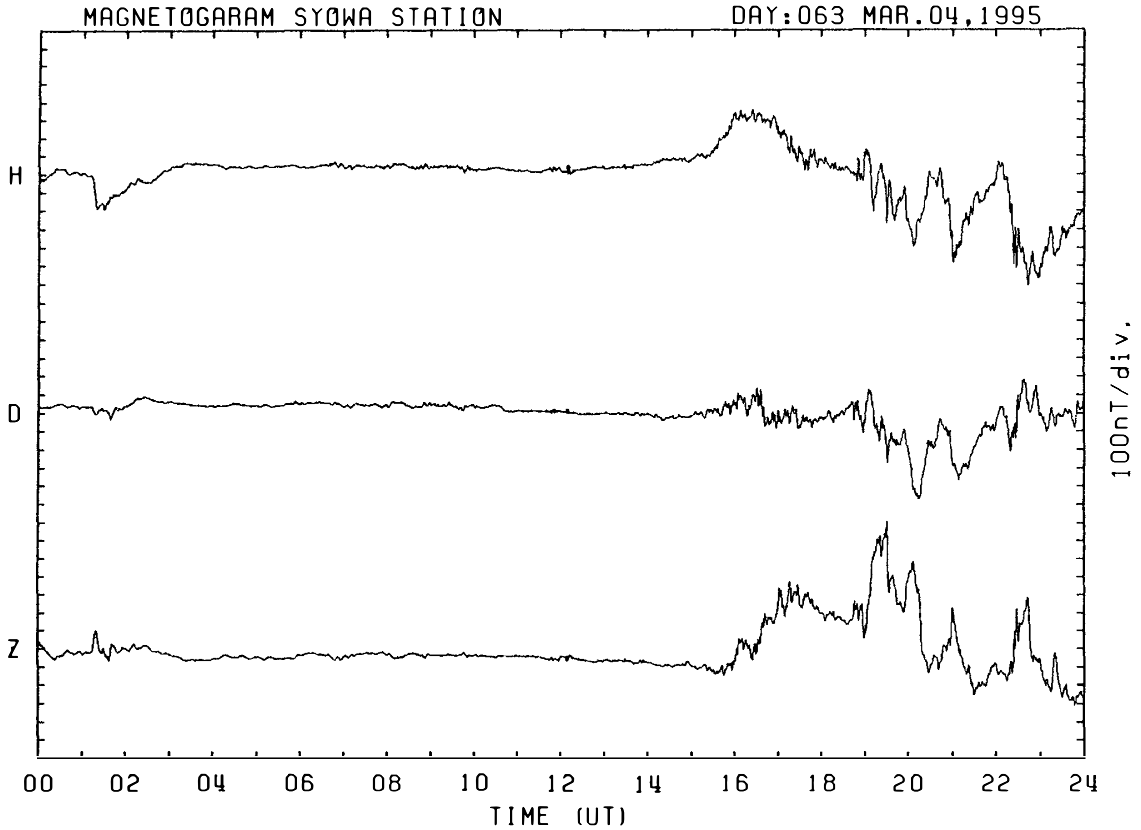
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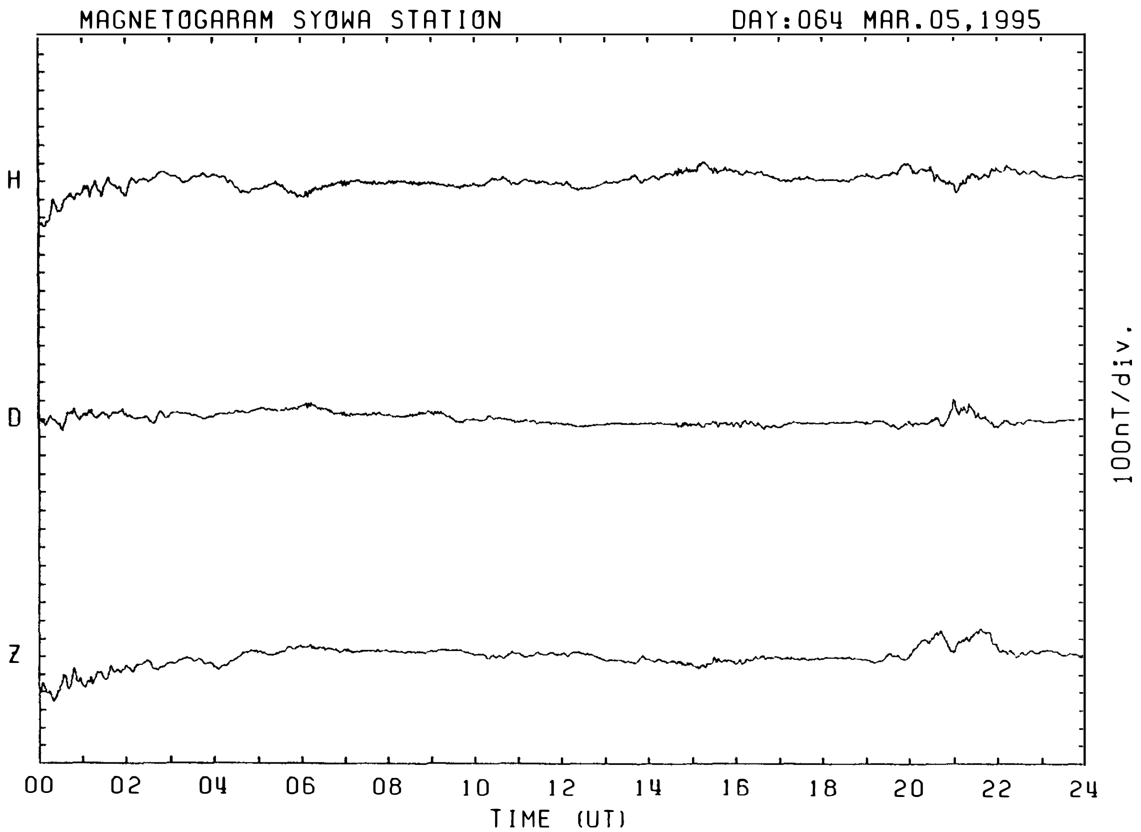
TIME (UT)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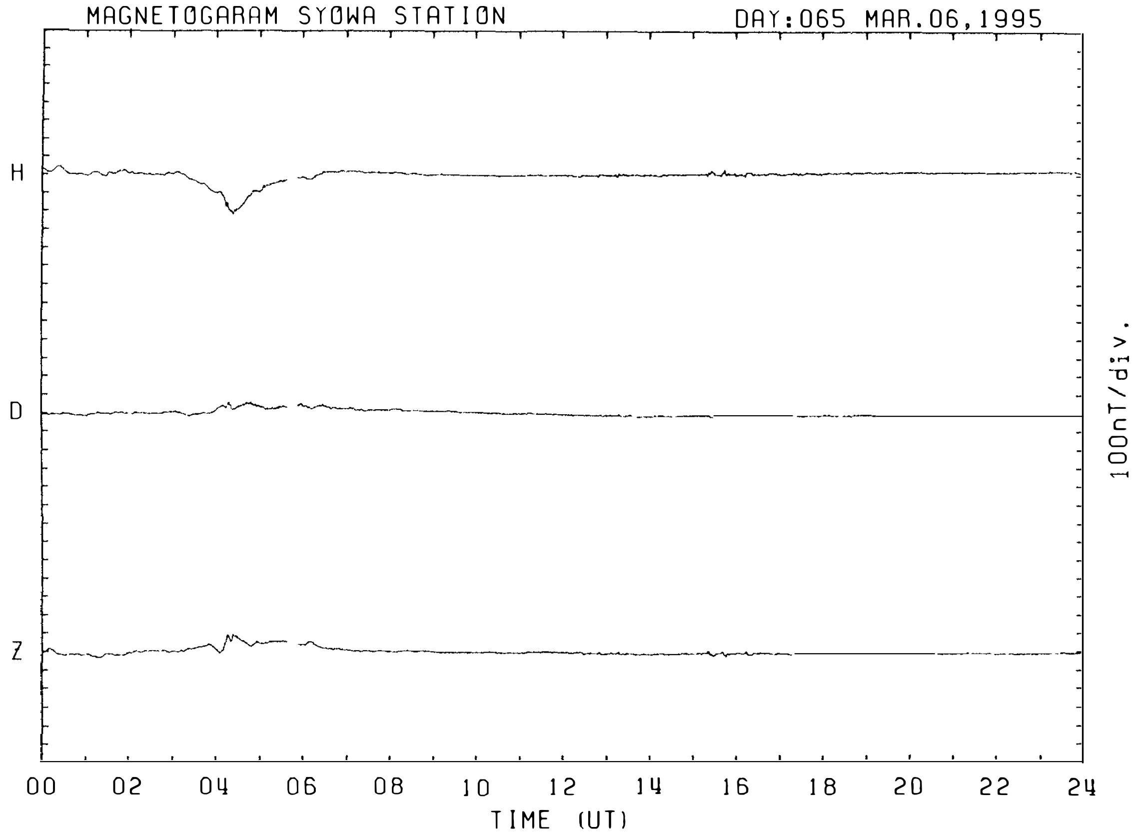
TIME (UT)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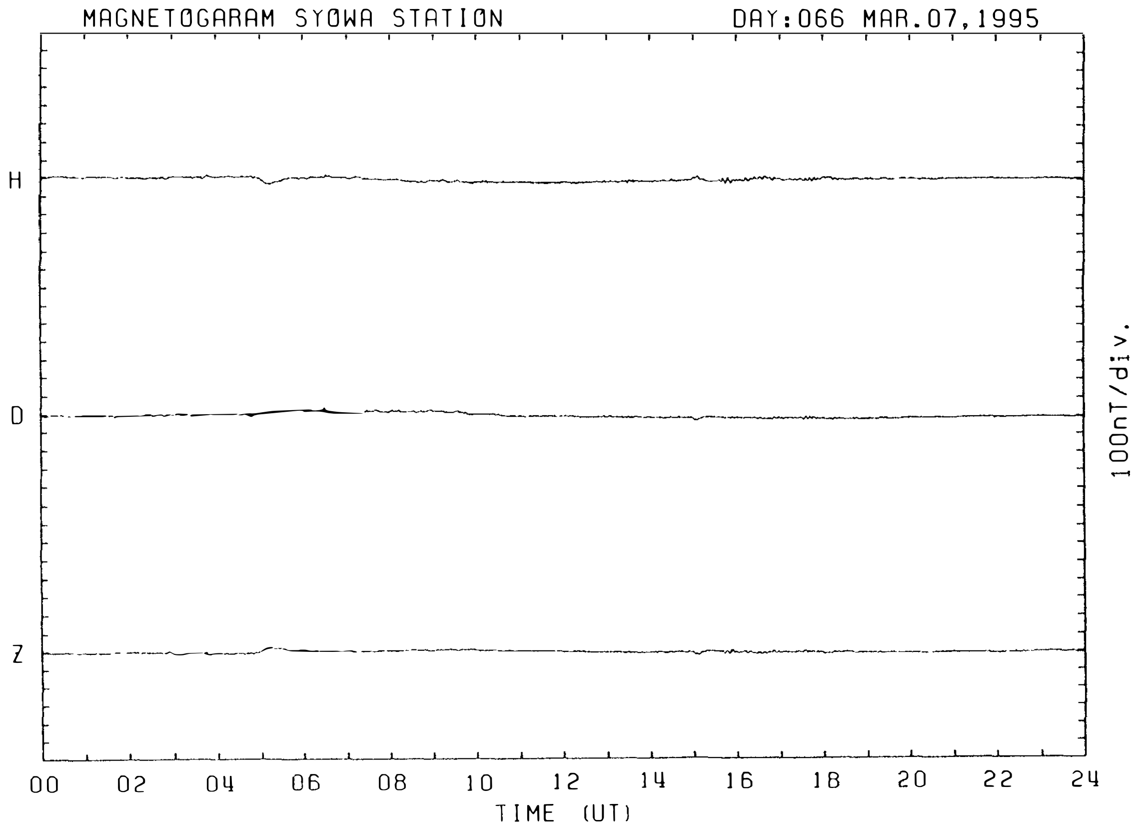
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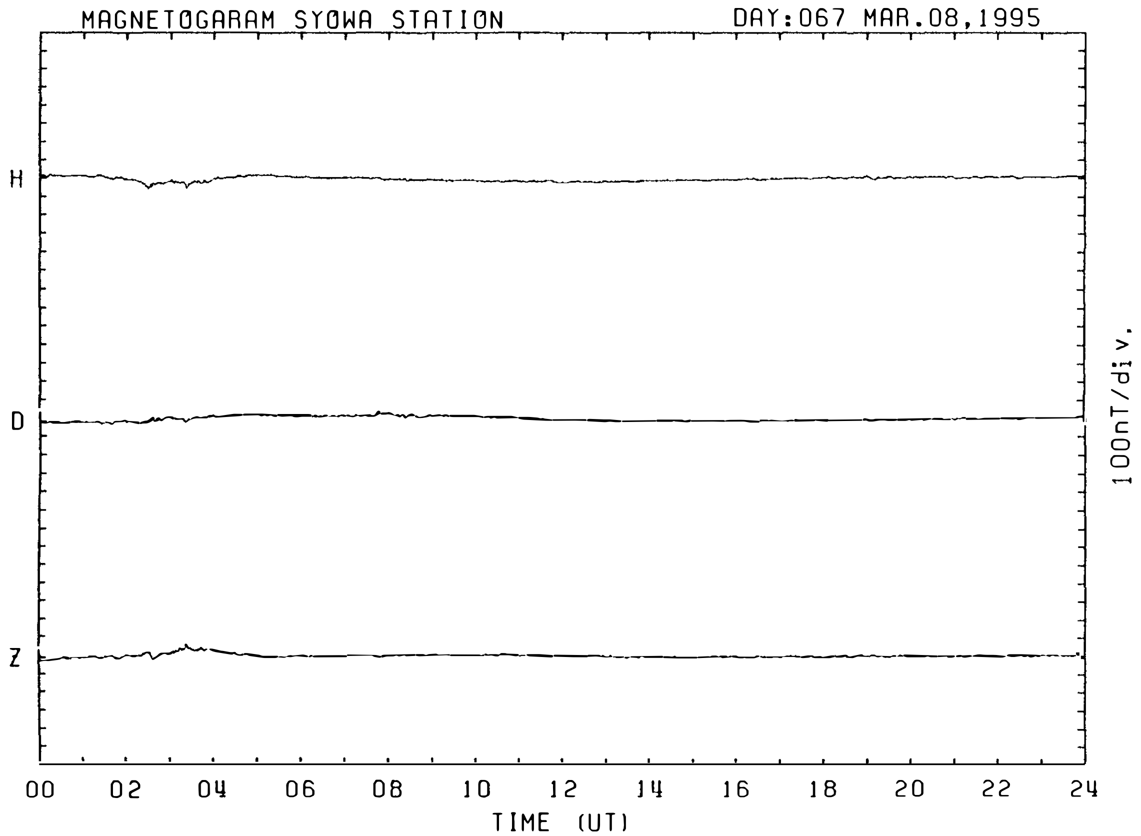
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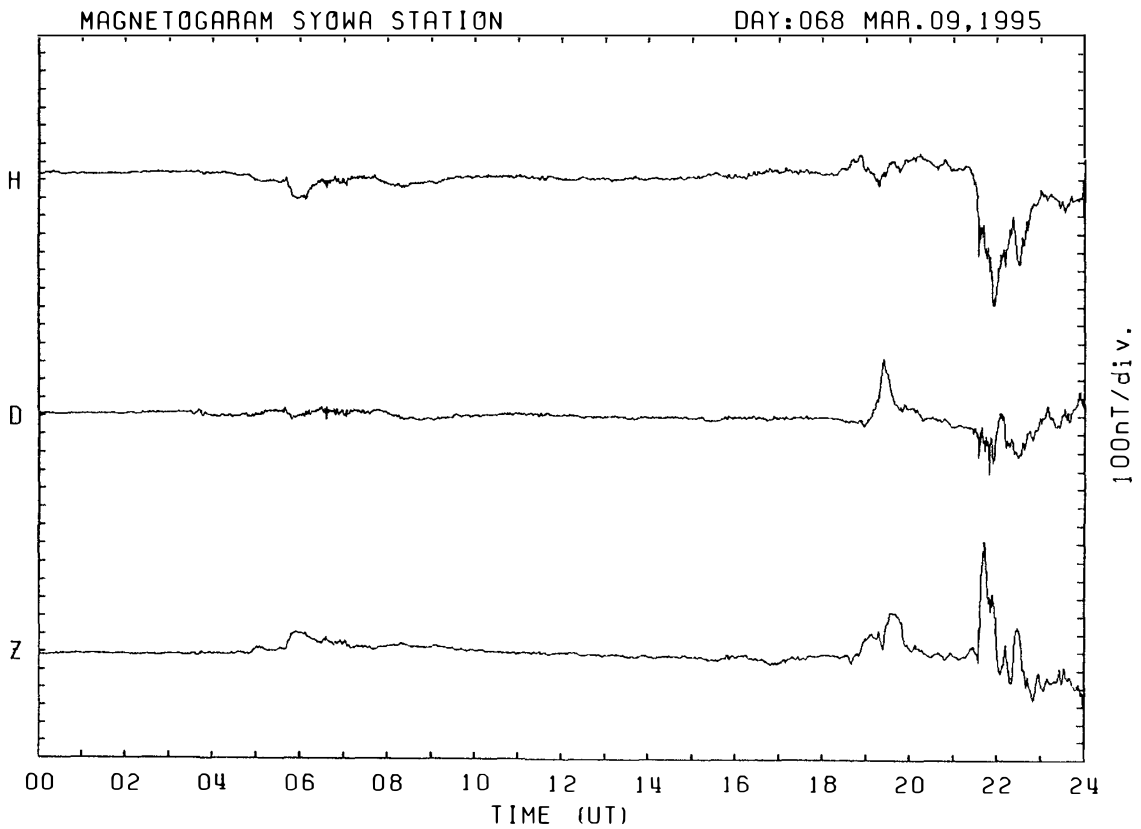
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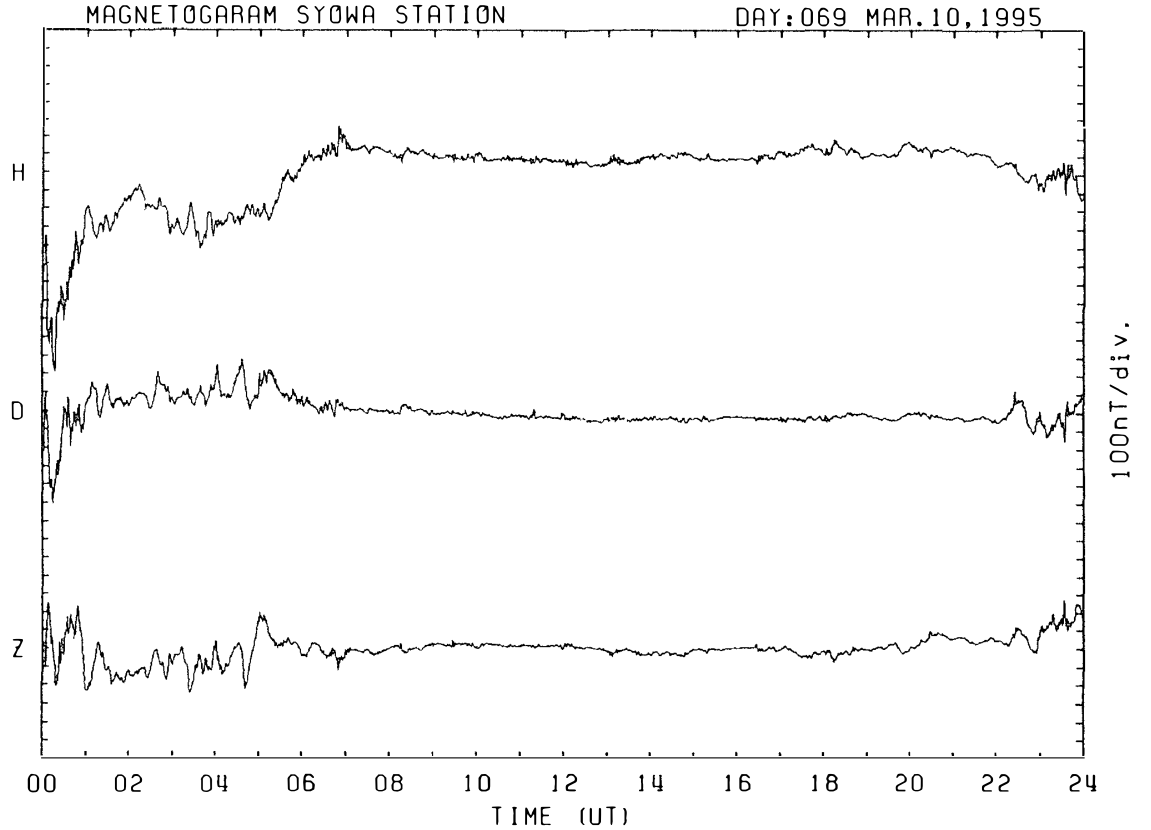
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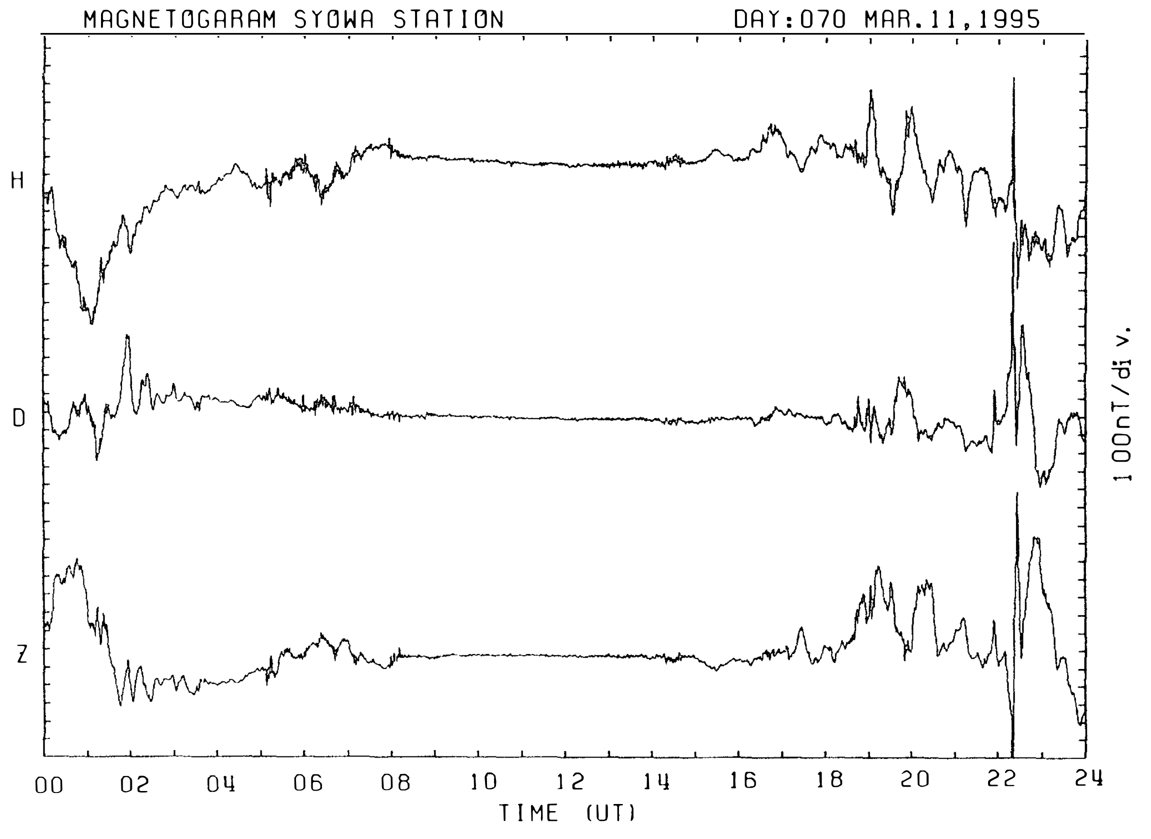
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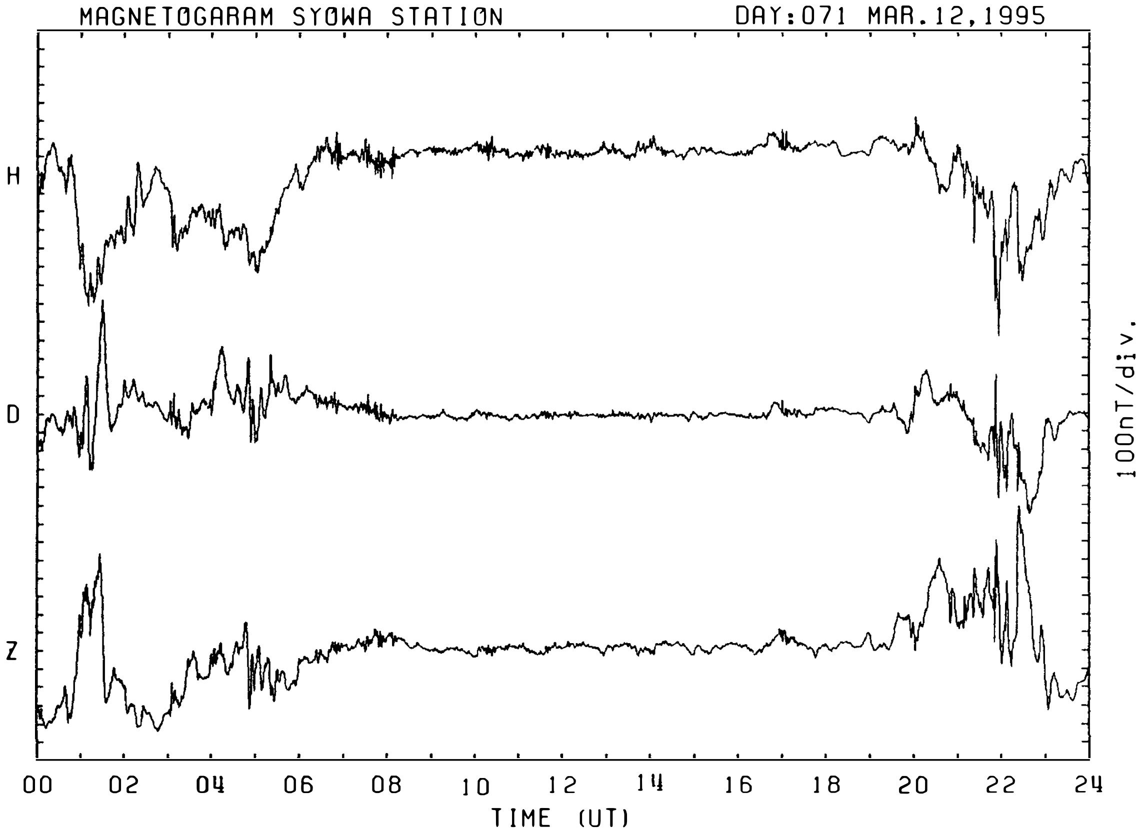
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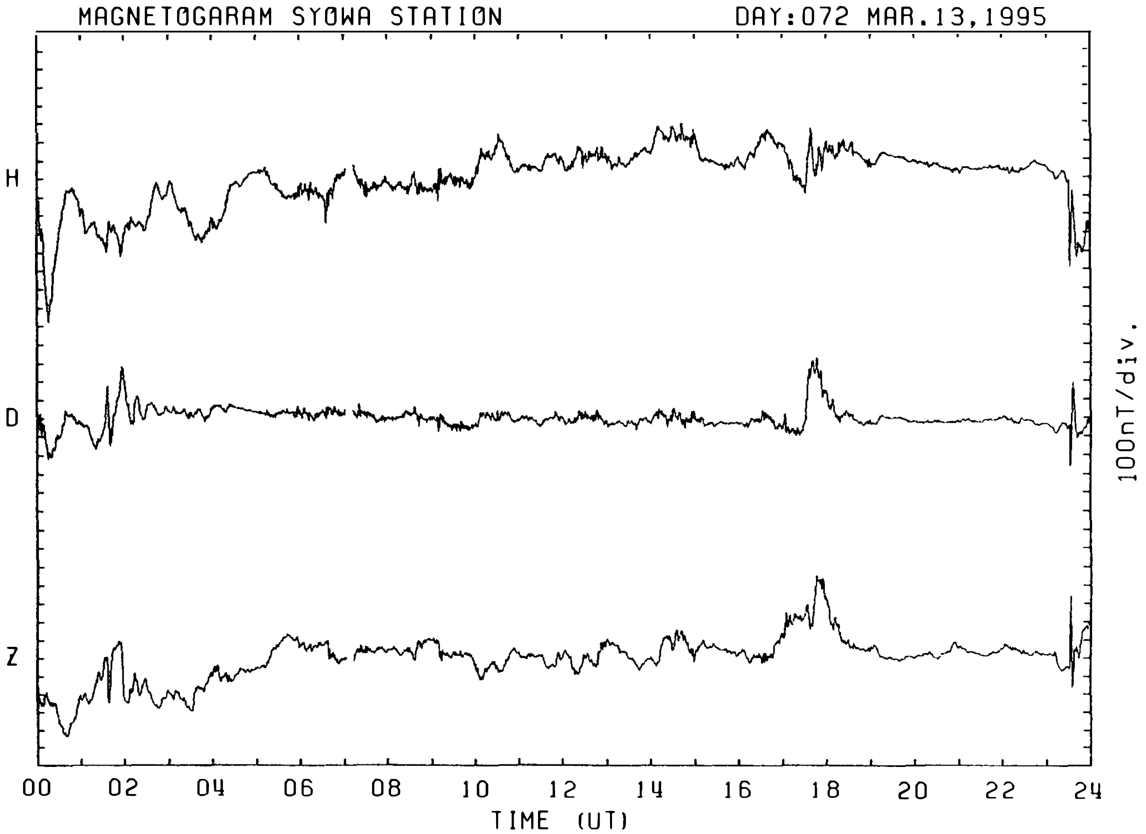
TIME (UT)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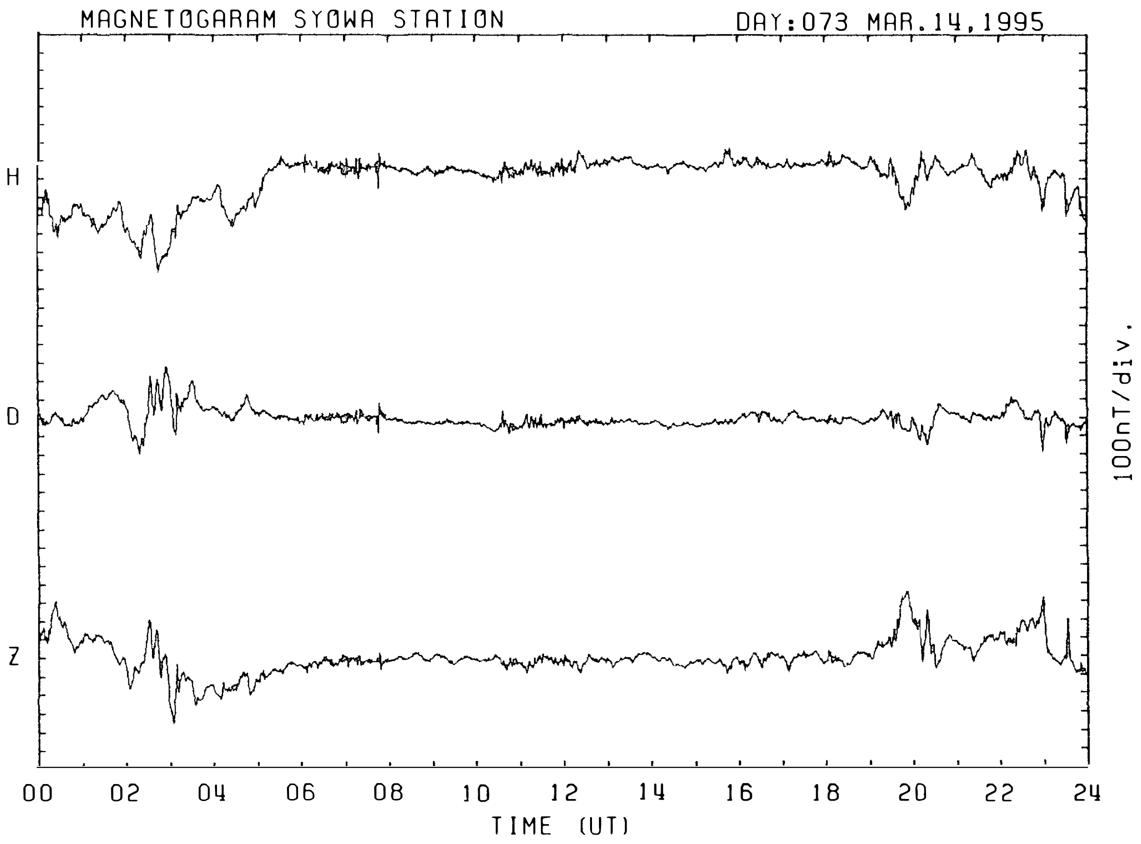
TIME (UT)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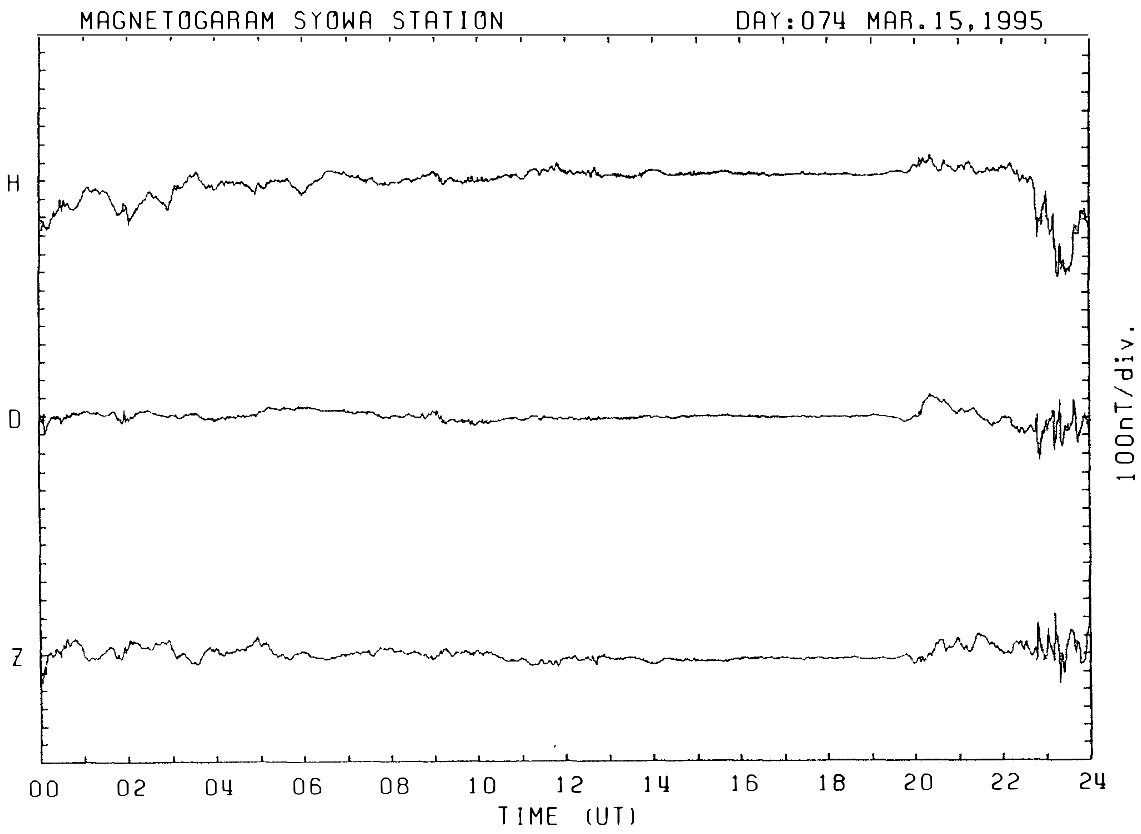
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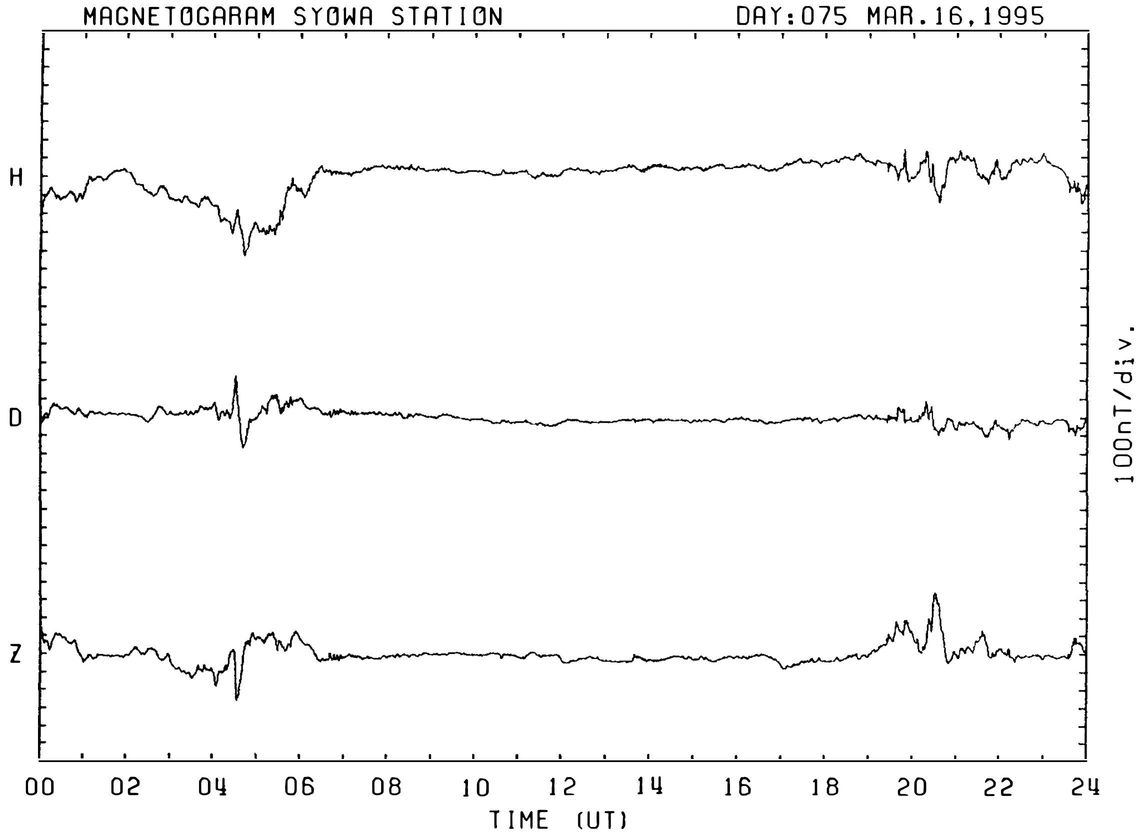
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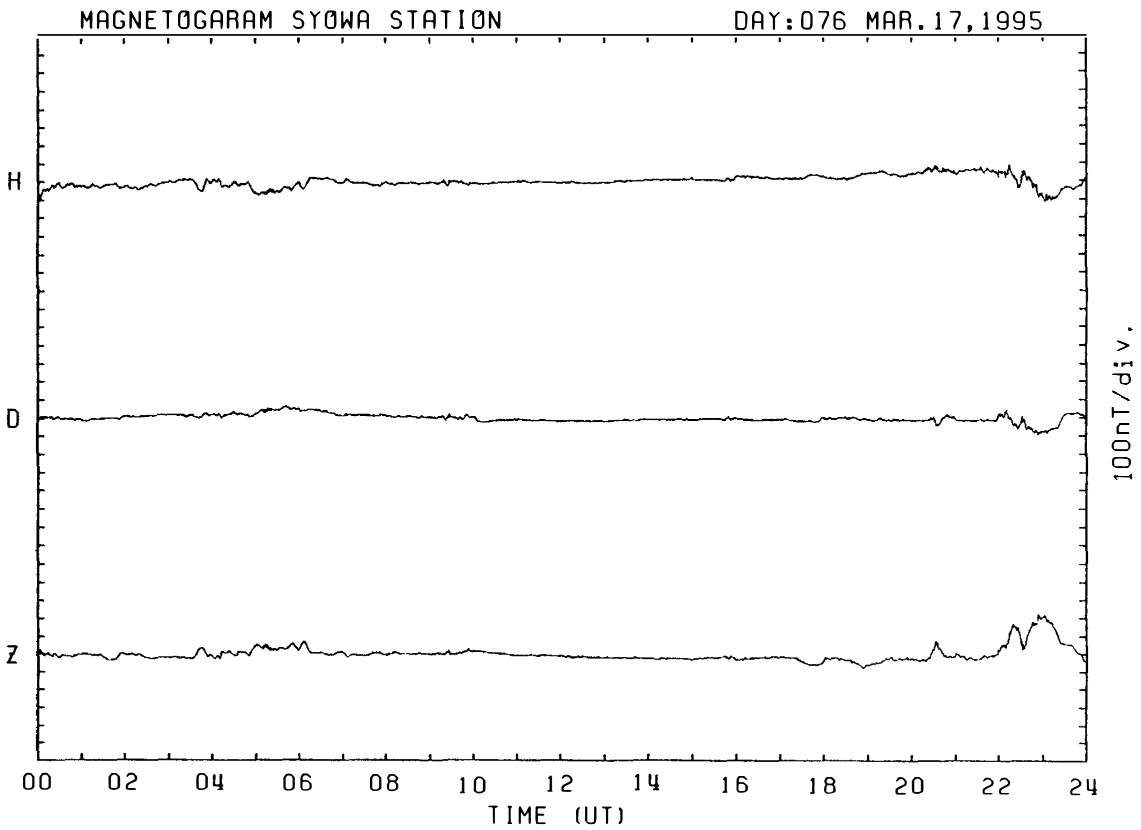
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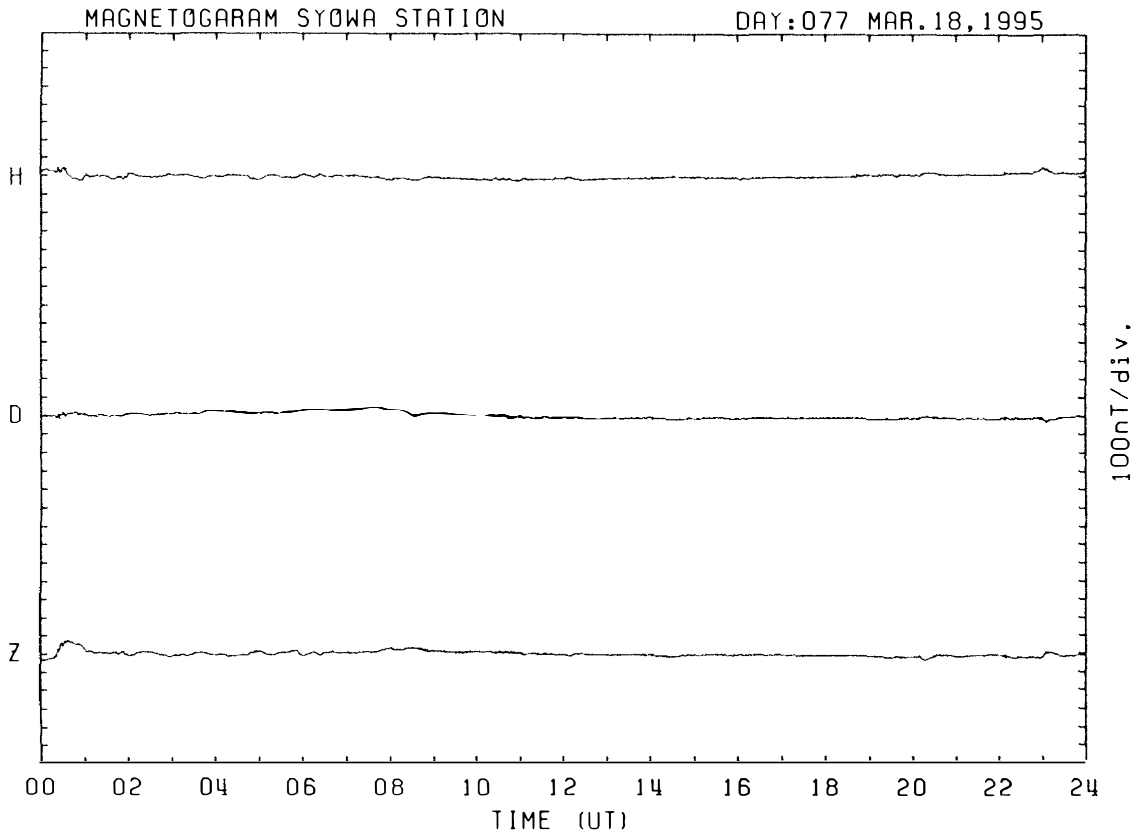
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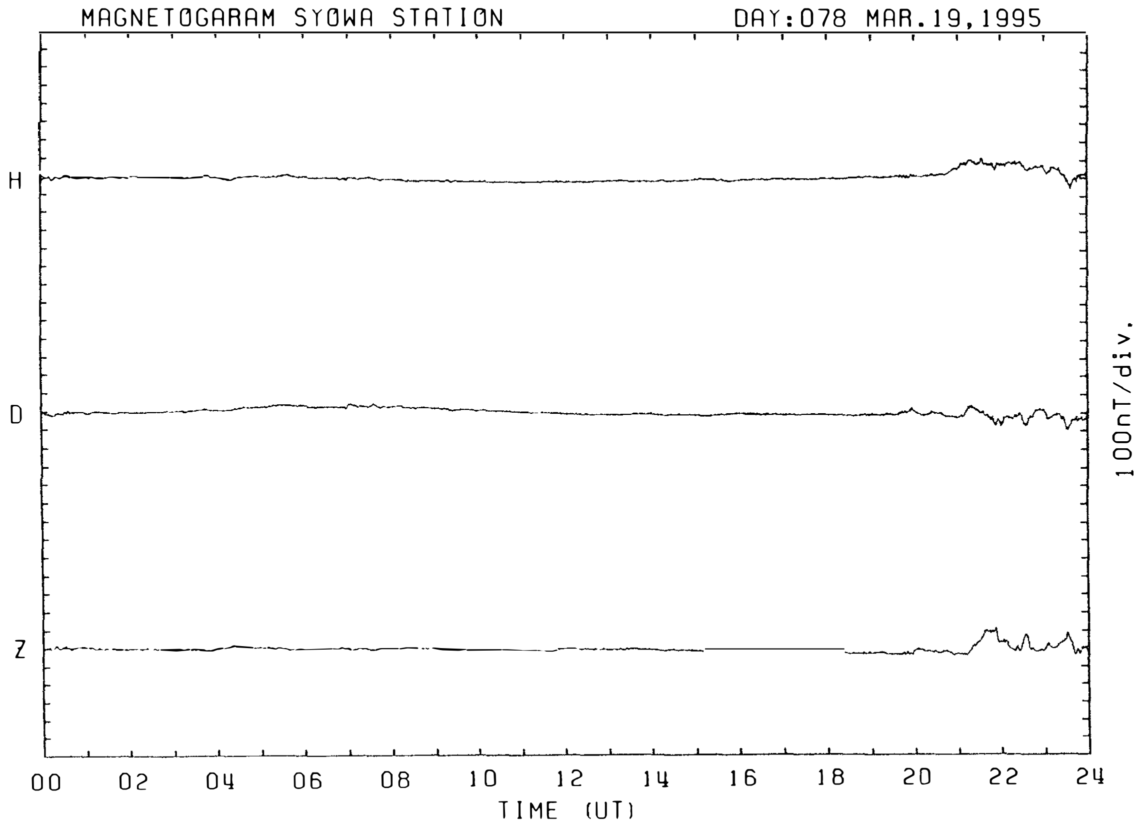
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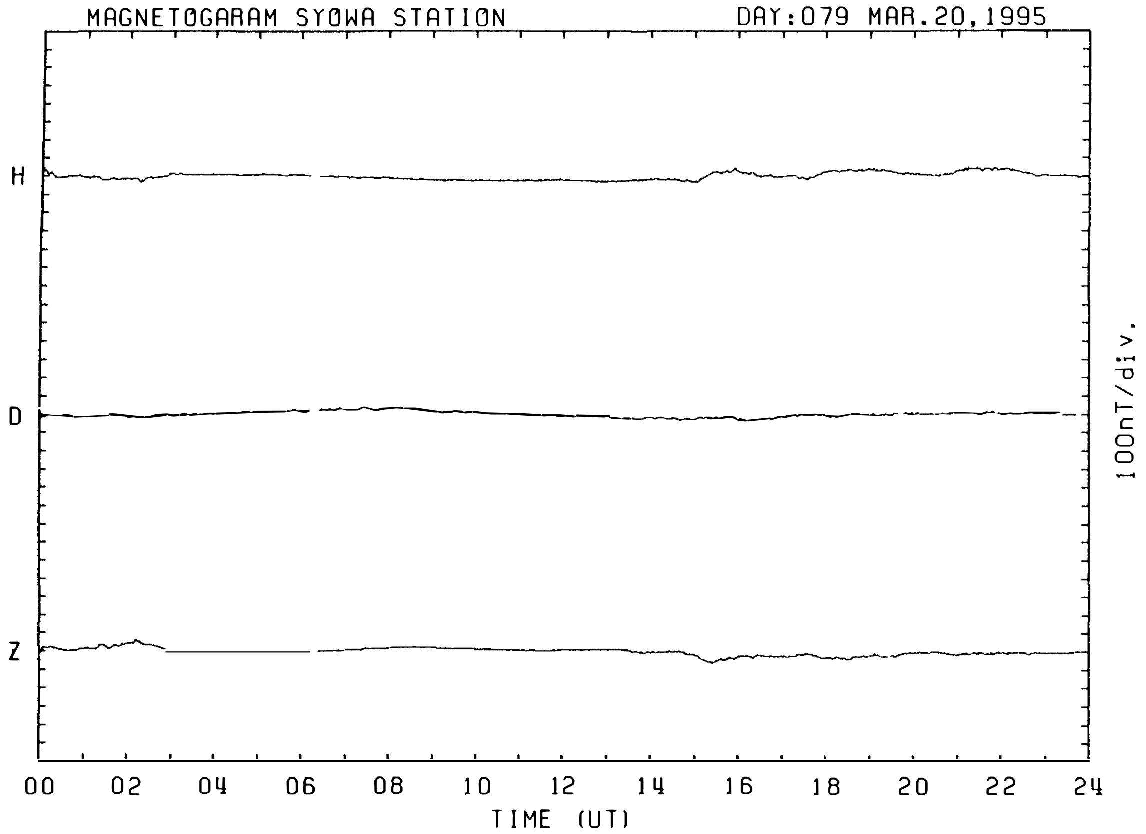
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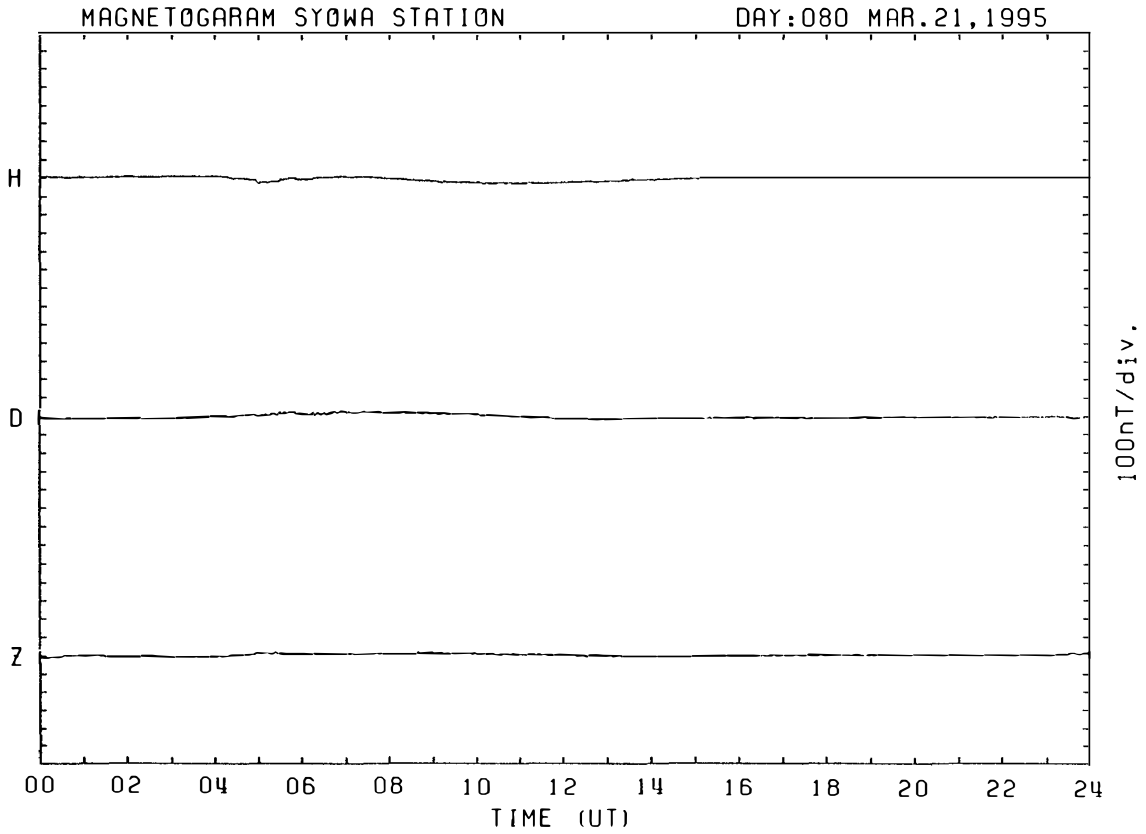
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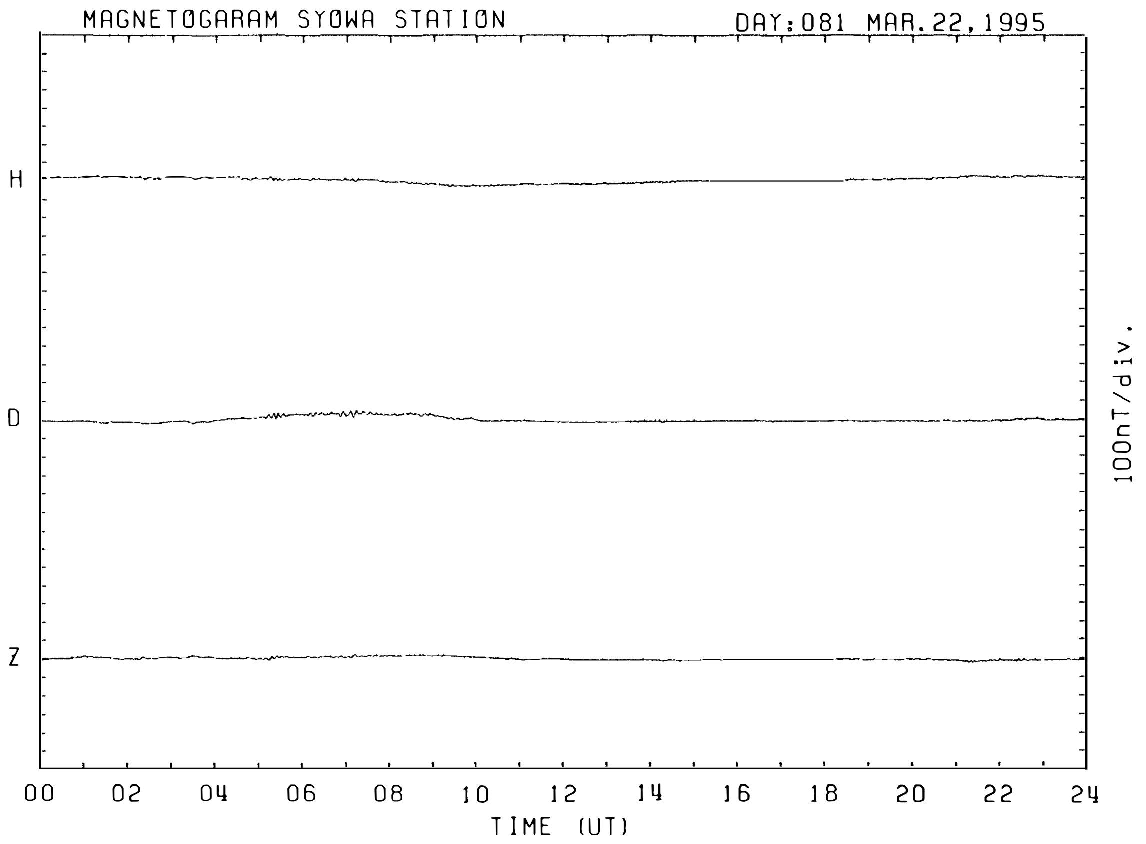

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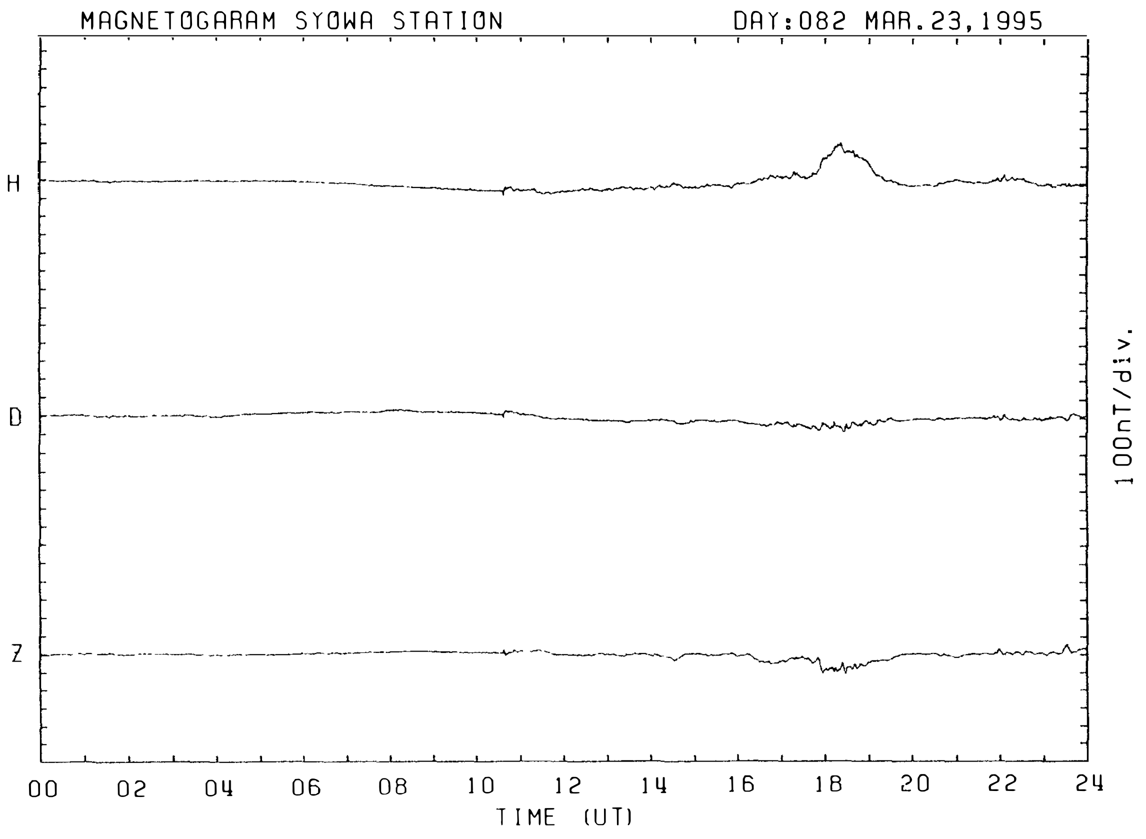

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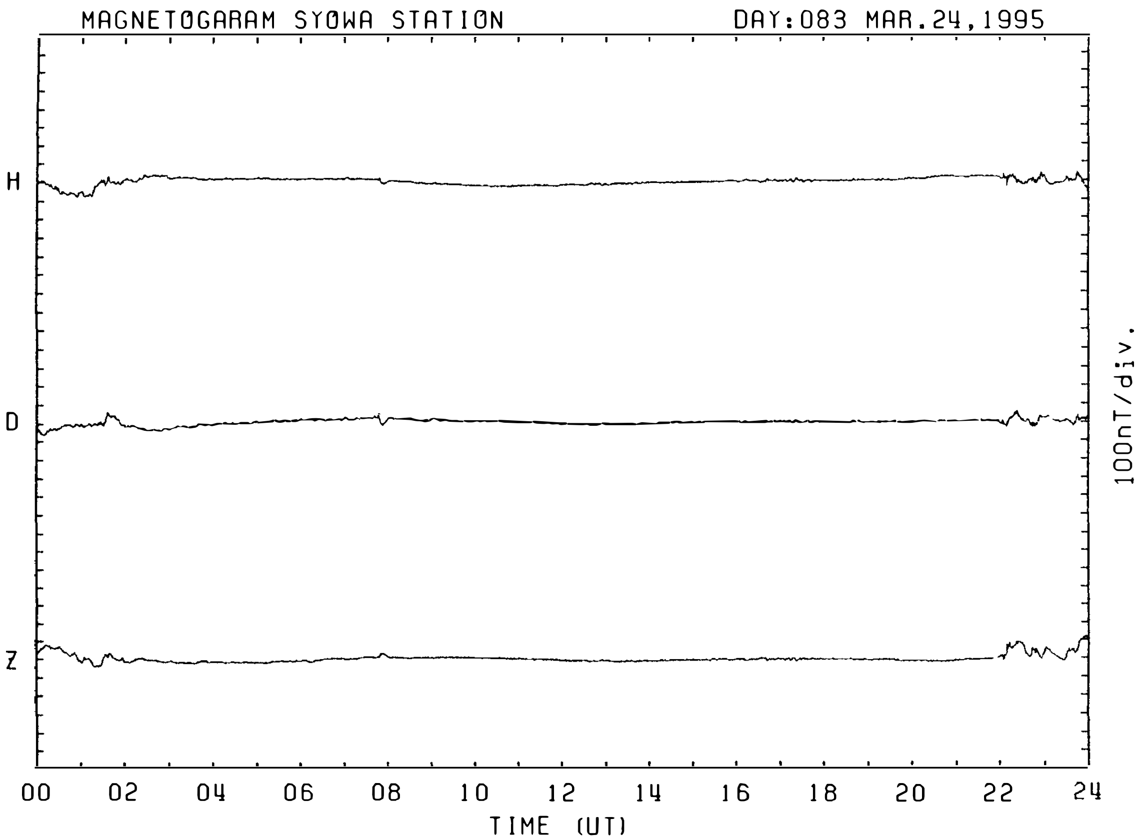
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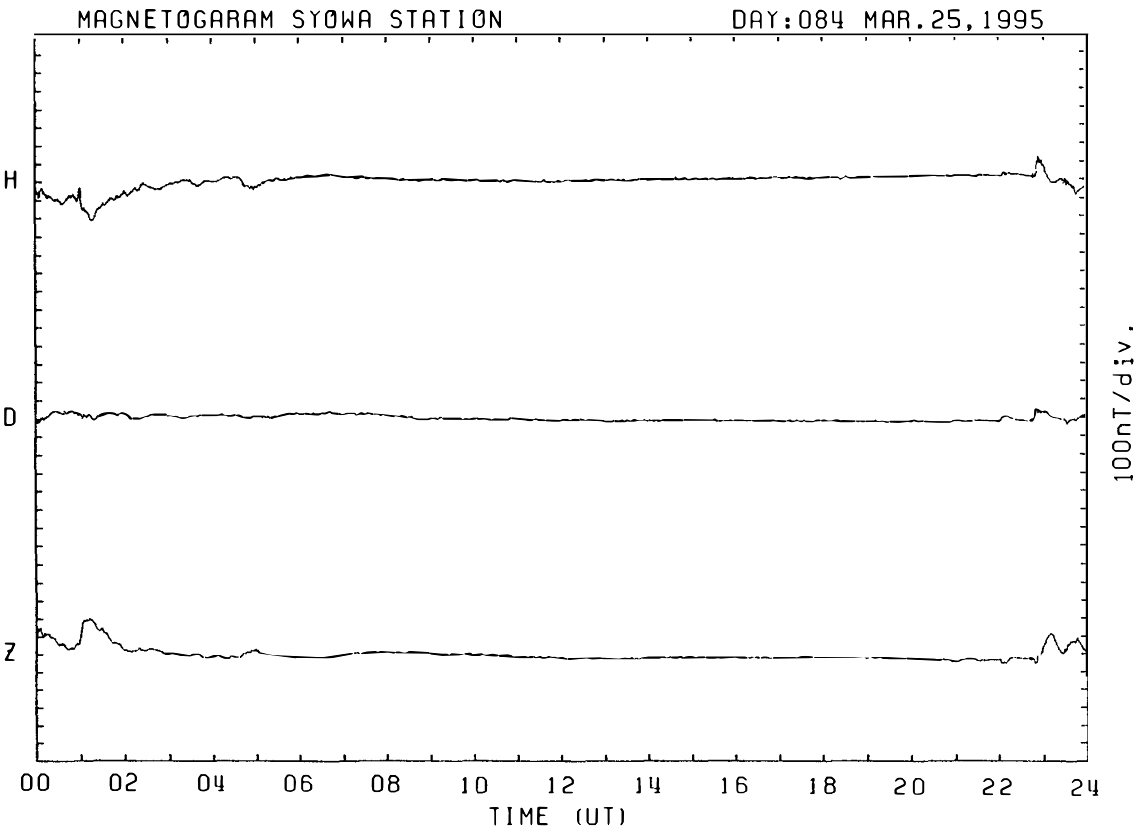
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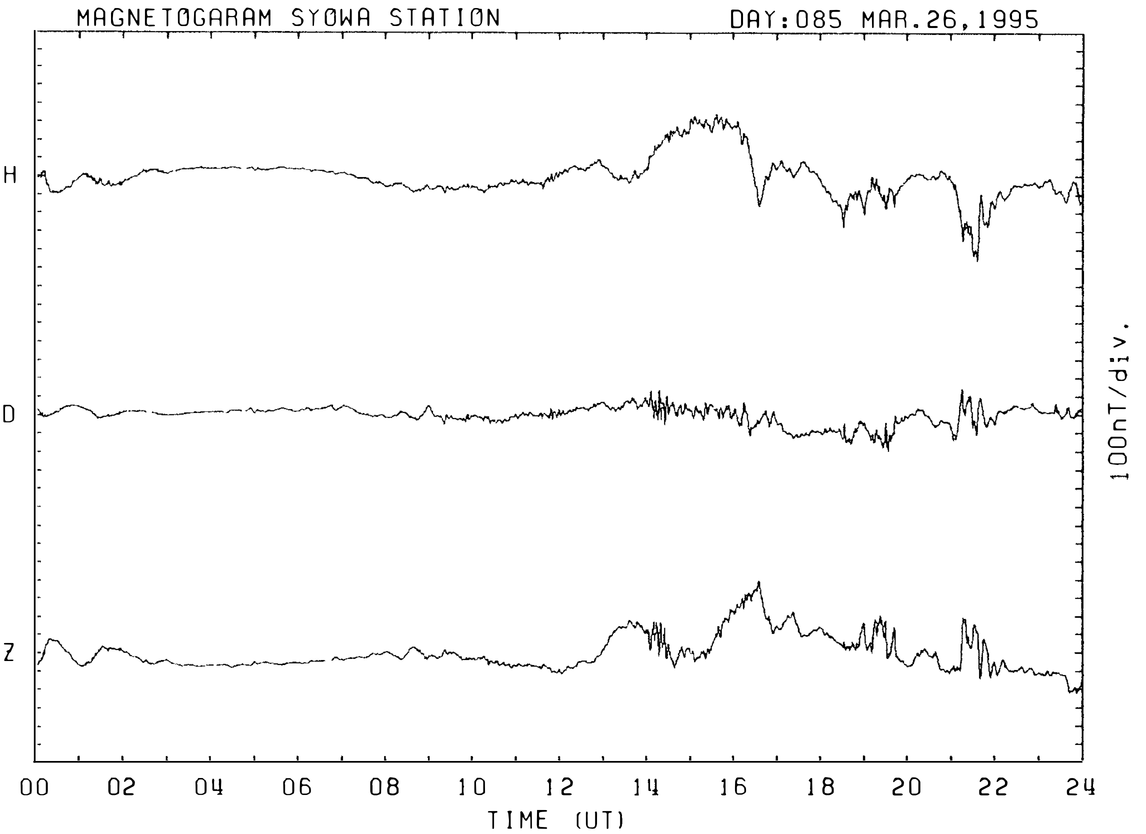
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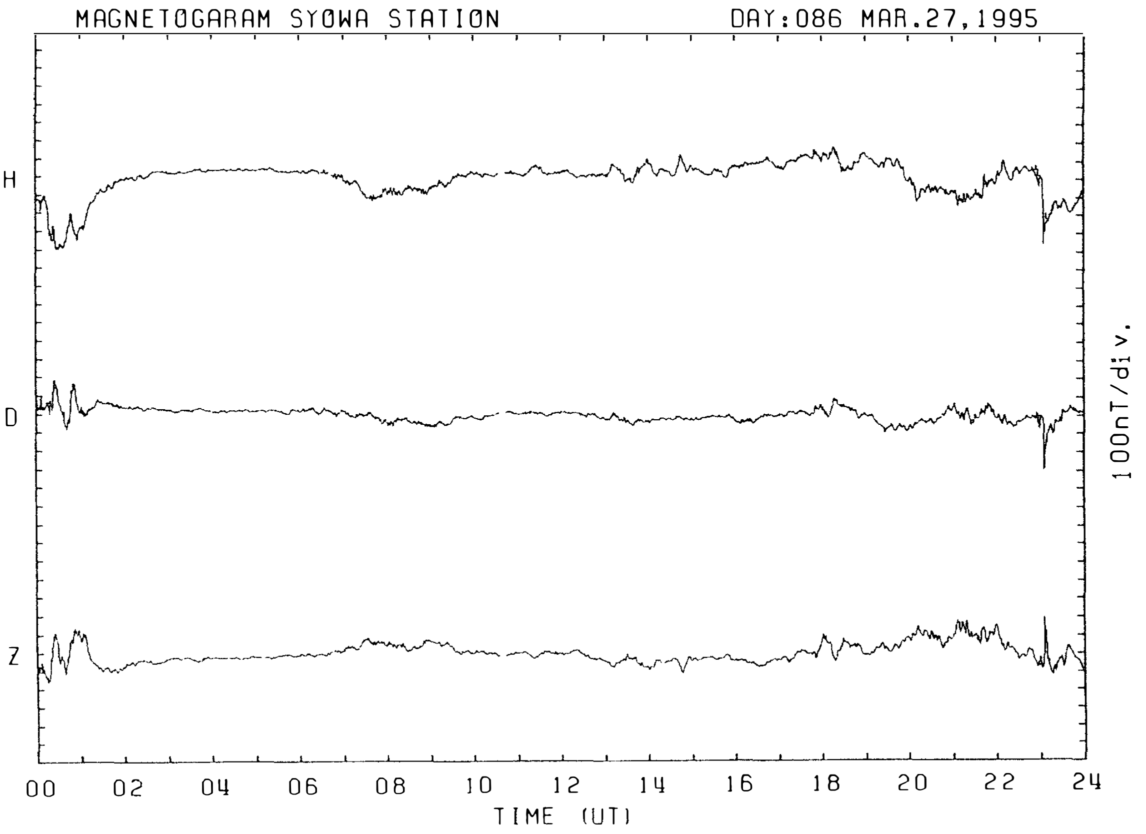
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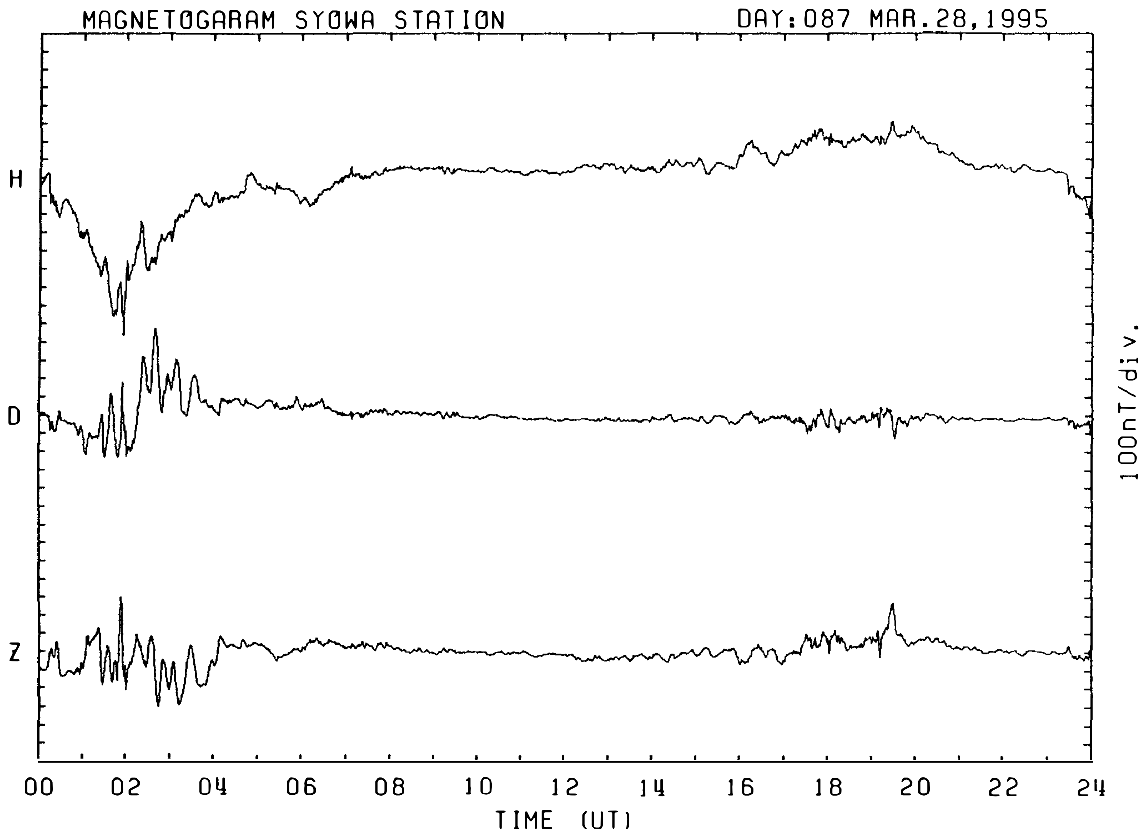
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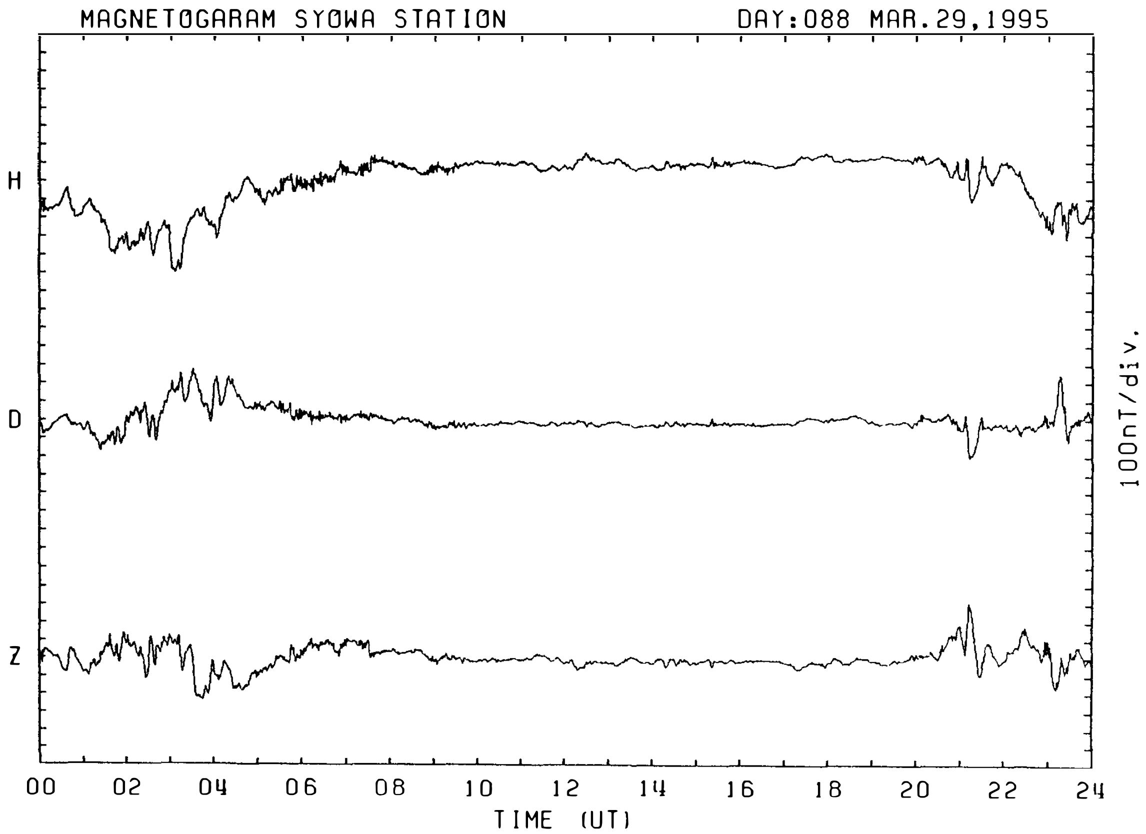
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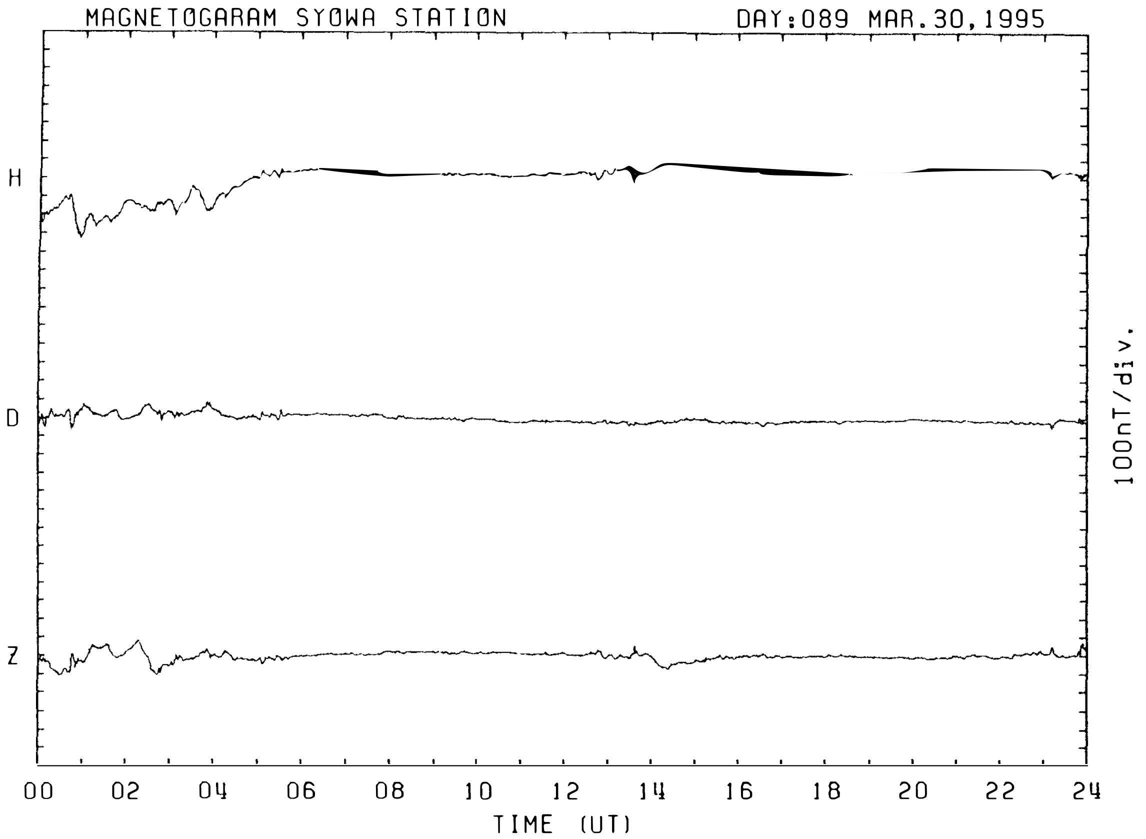
TIME (UT)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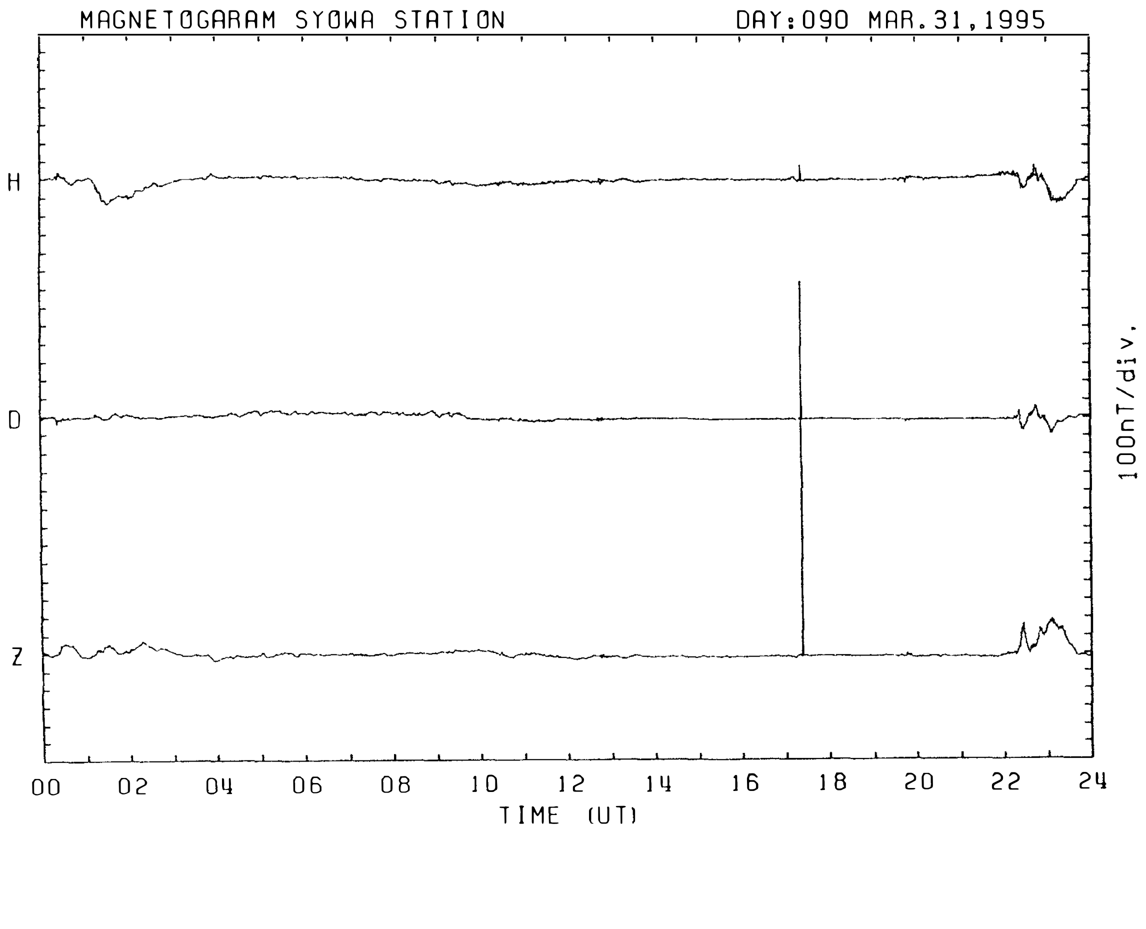
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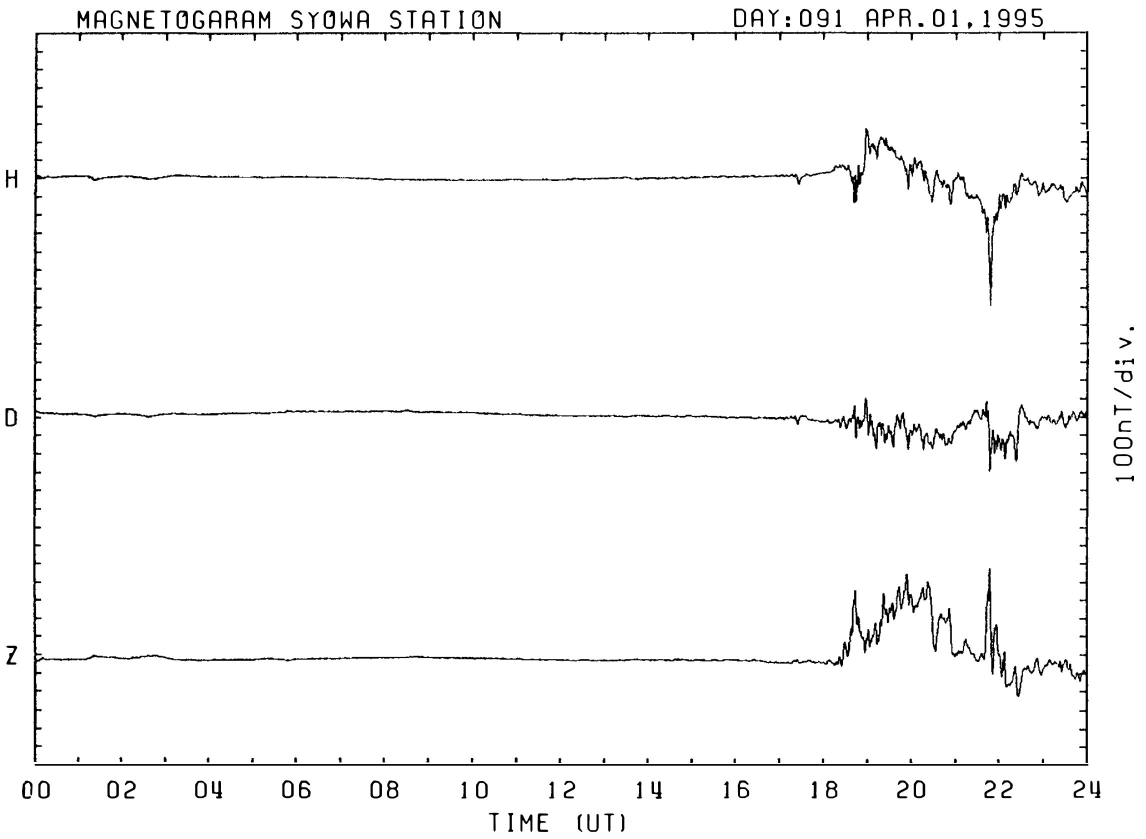
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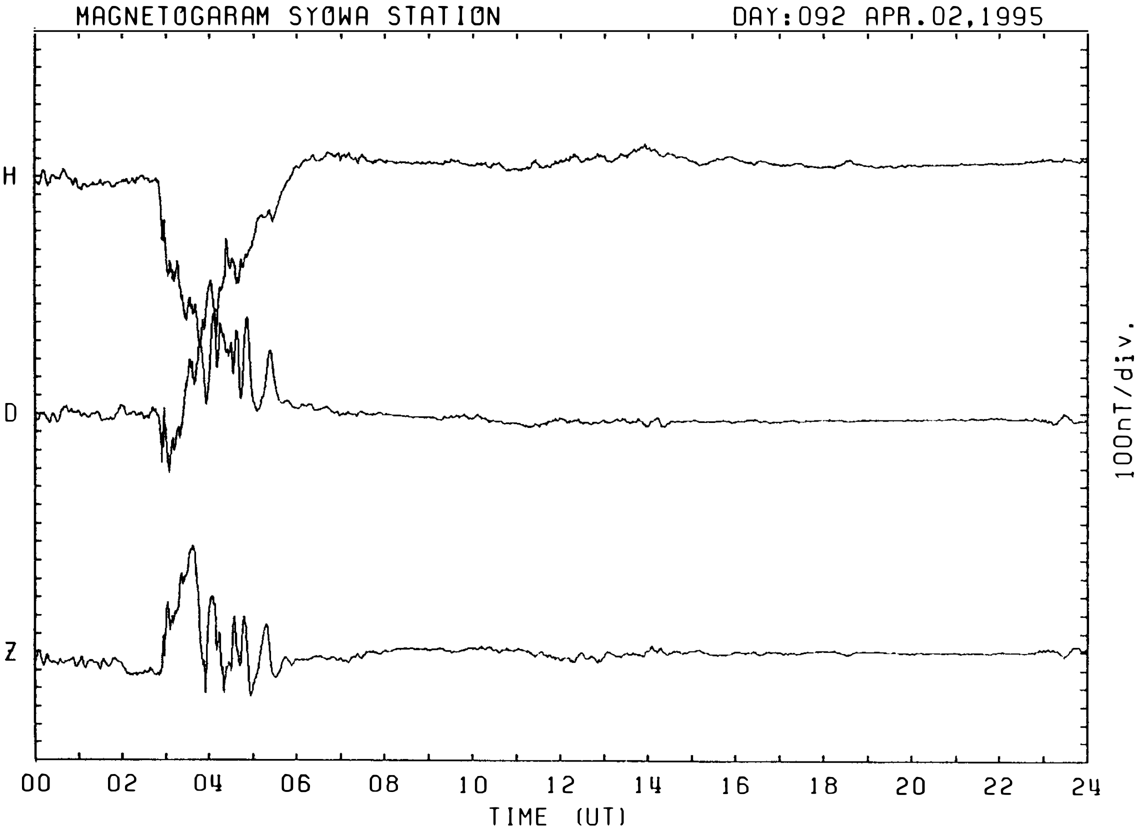
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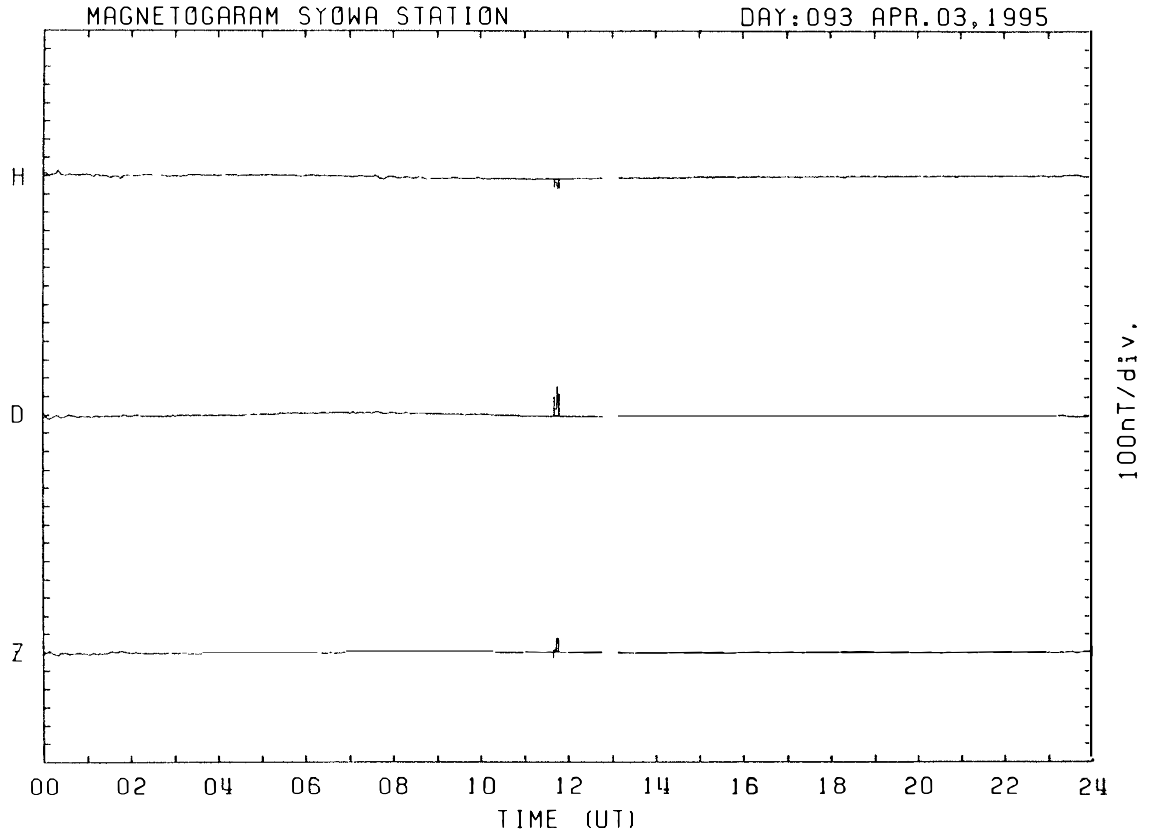
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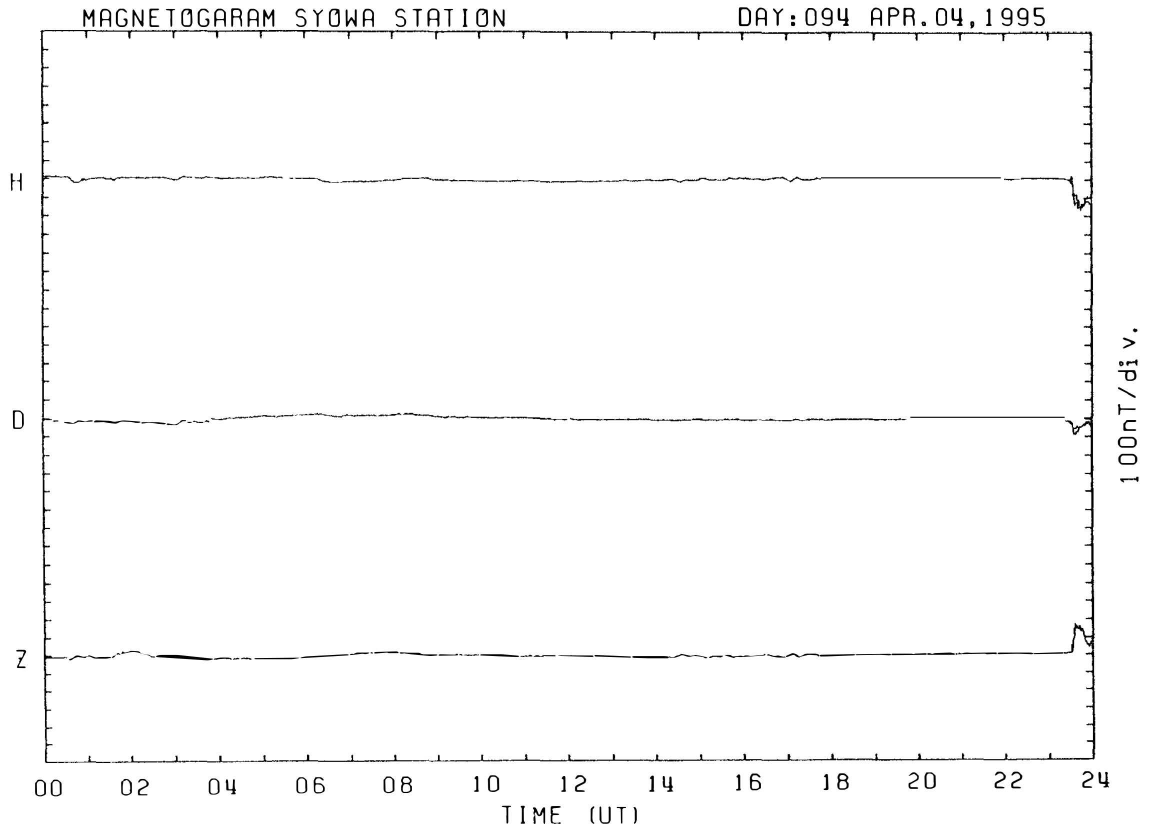
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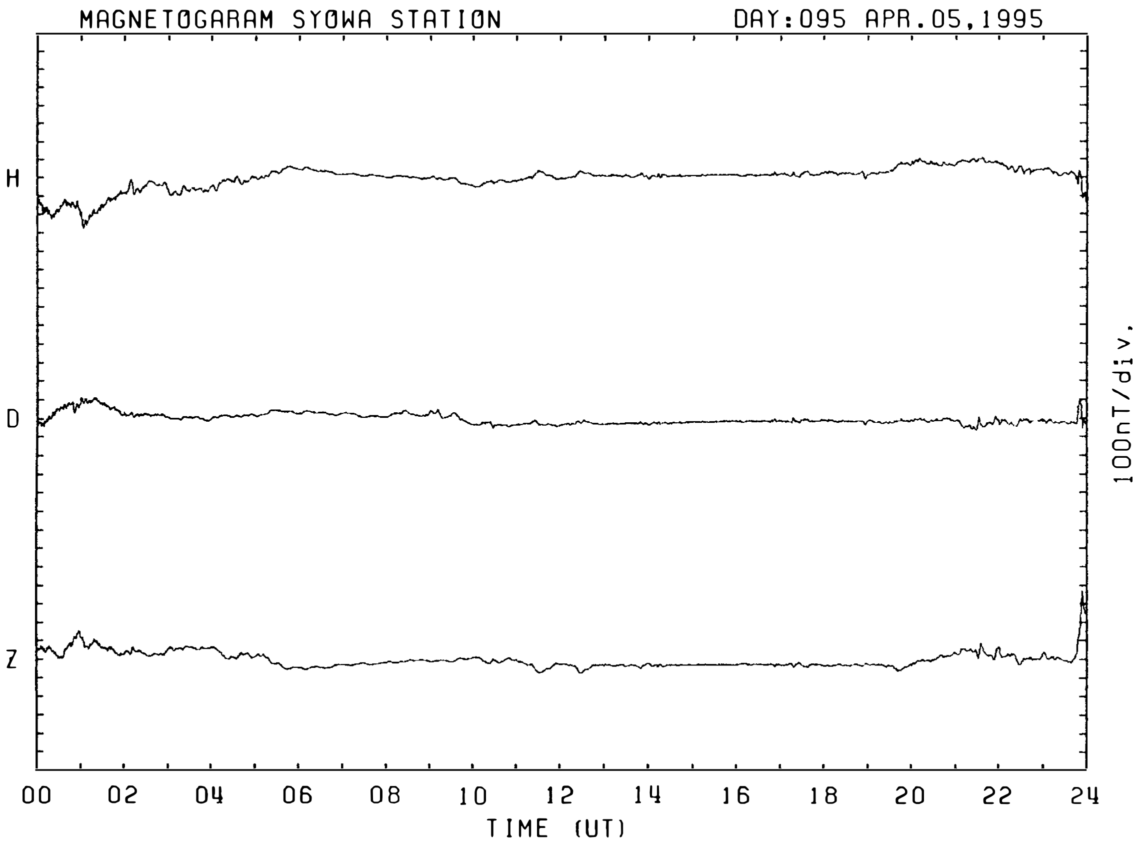
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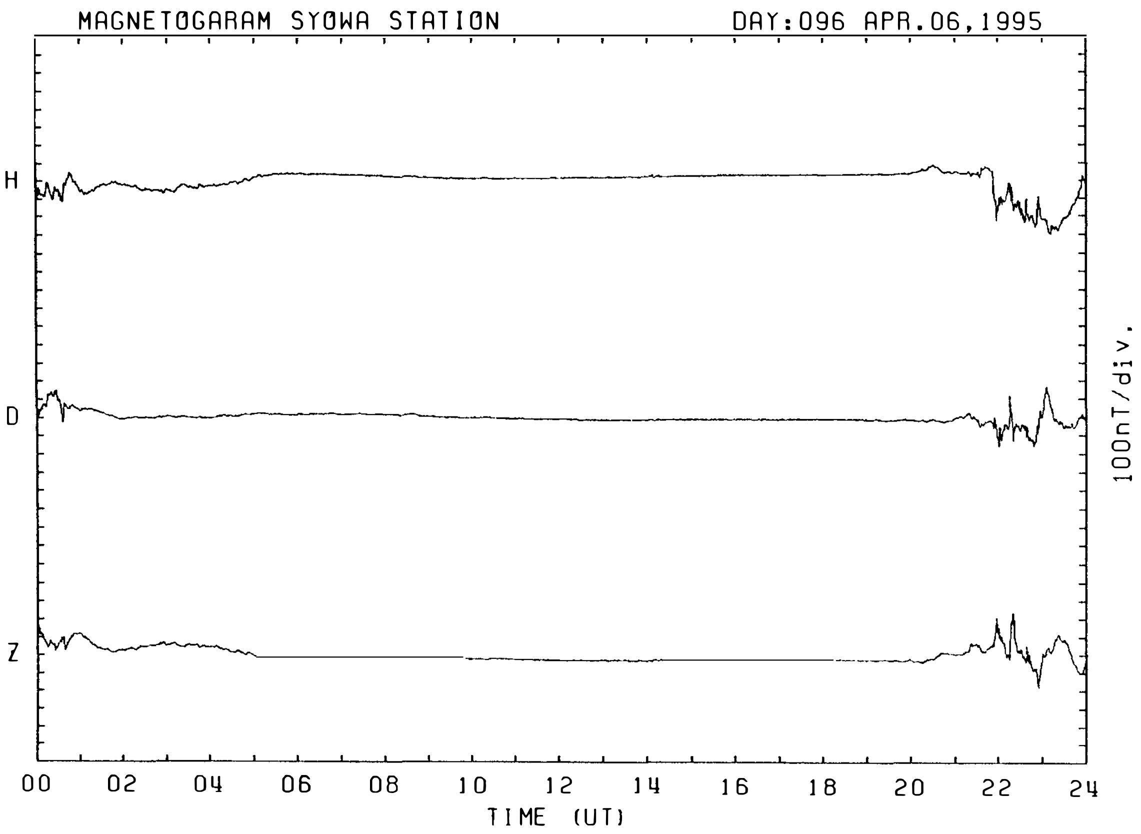
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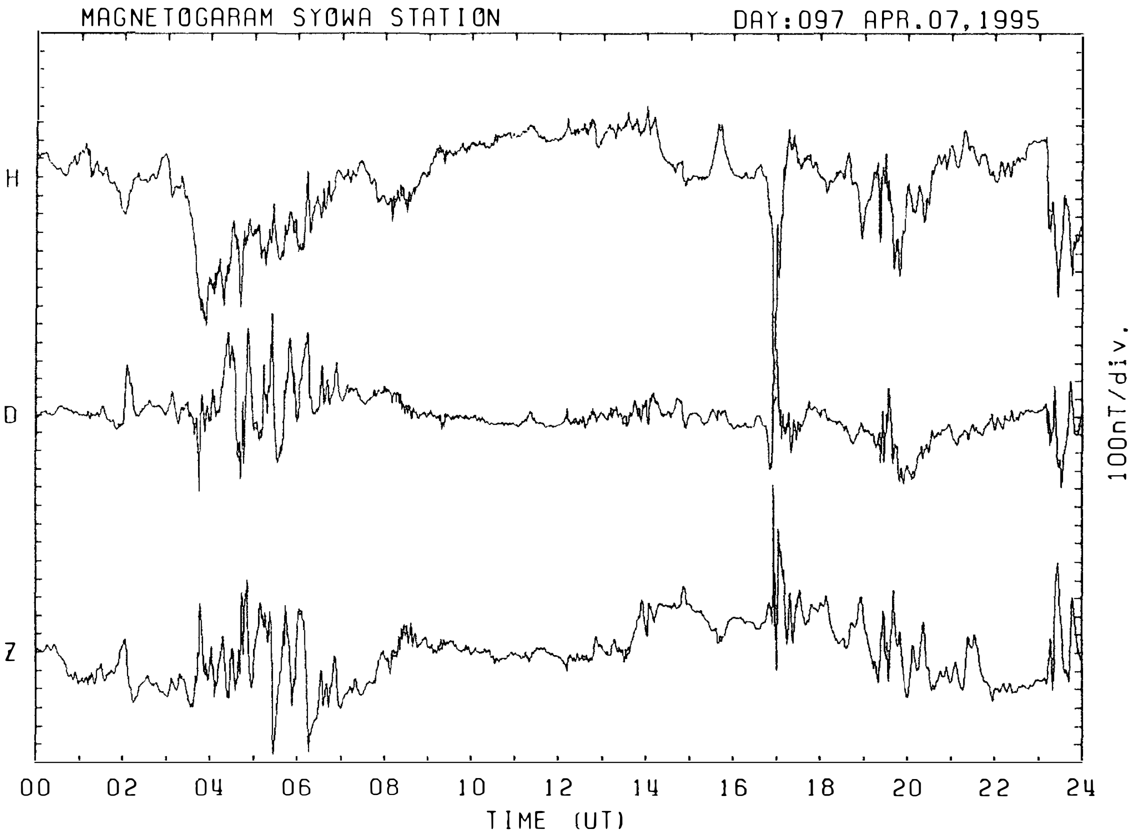
TIME (UT)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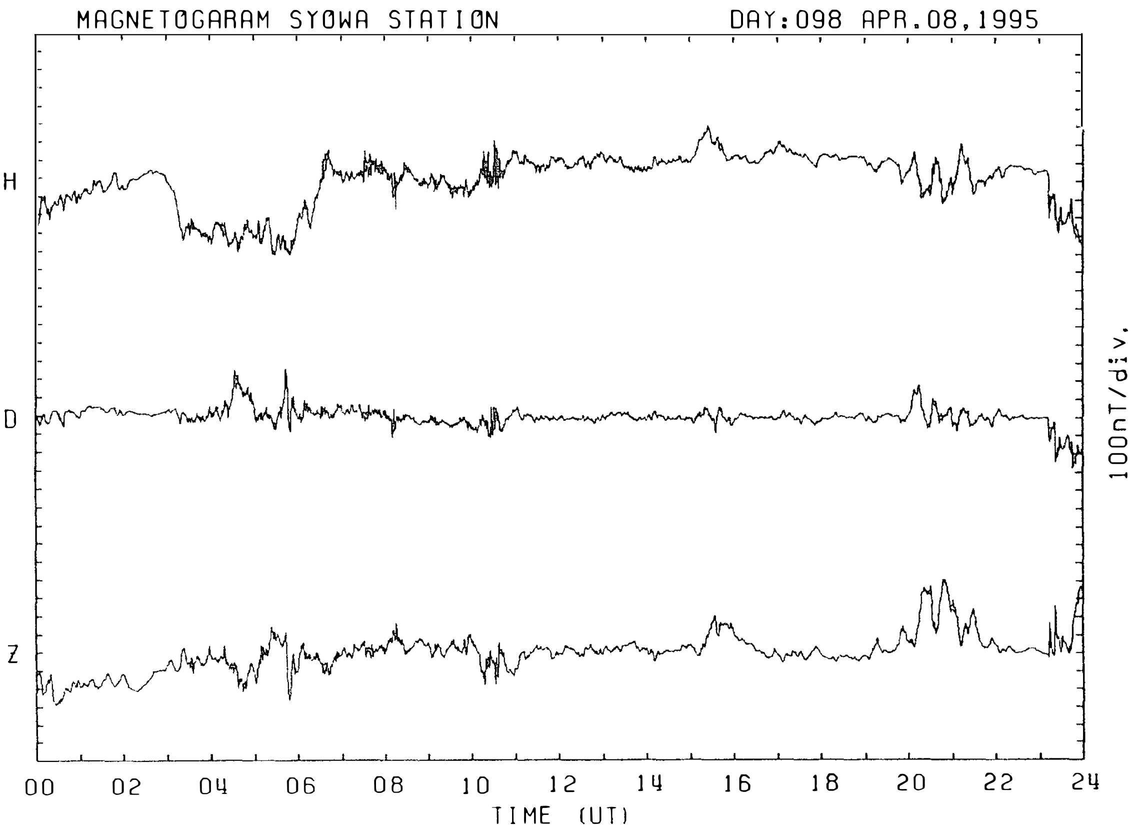
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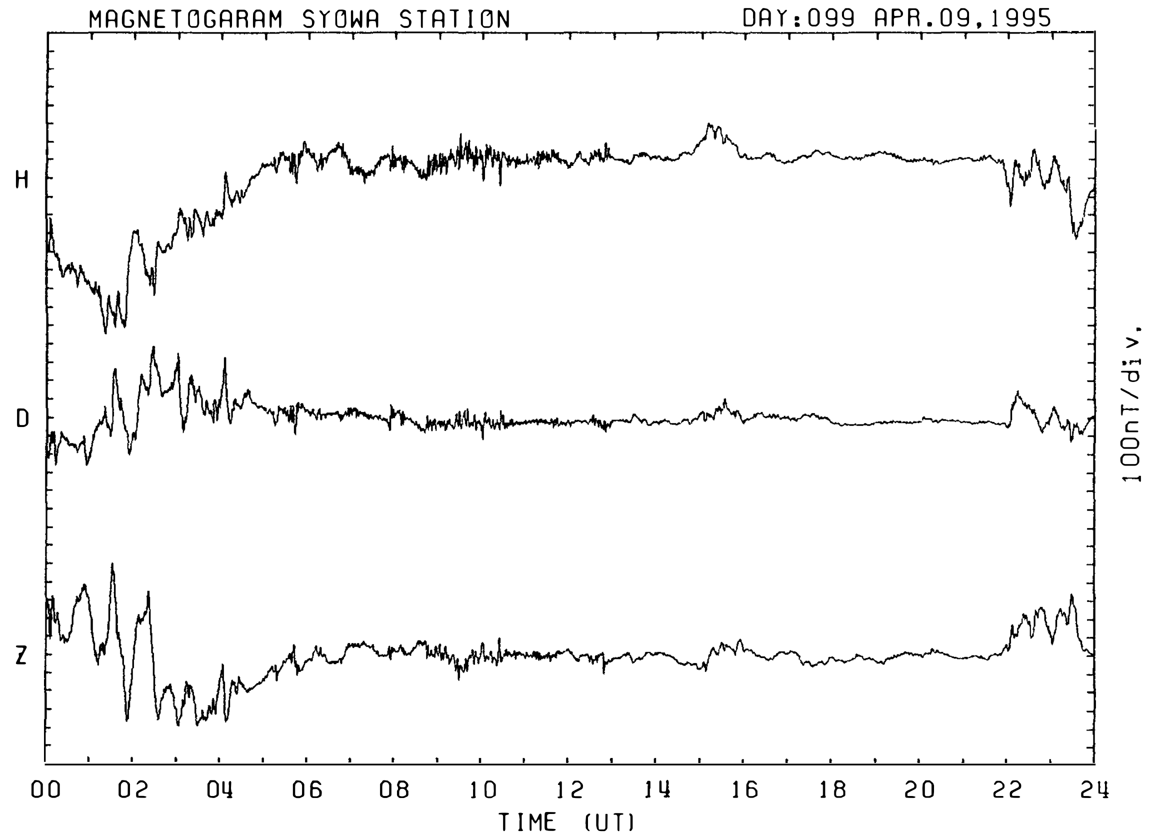
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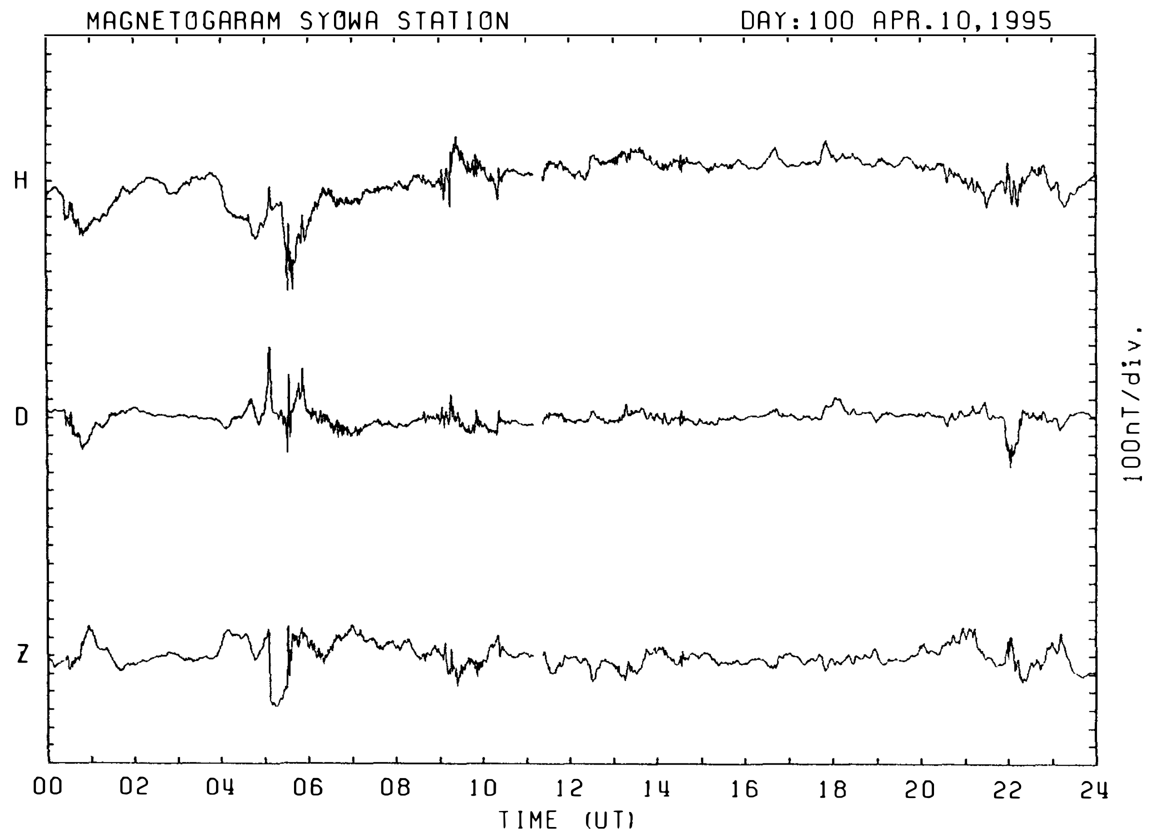
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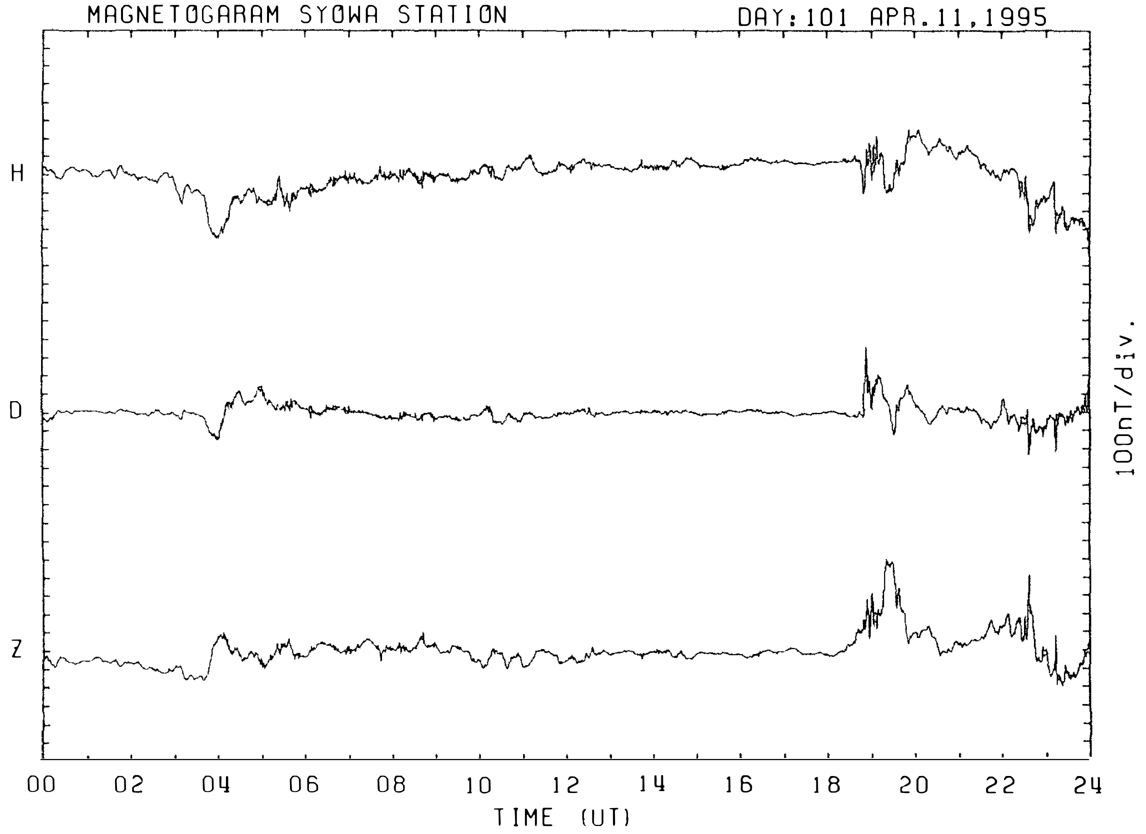
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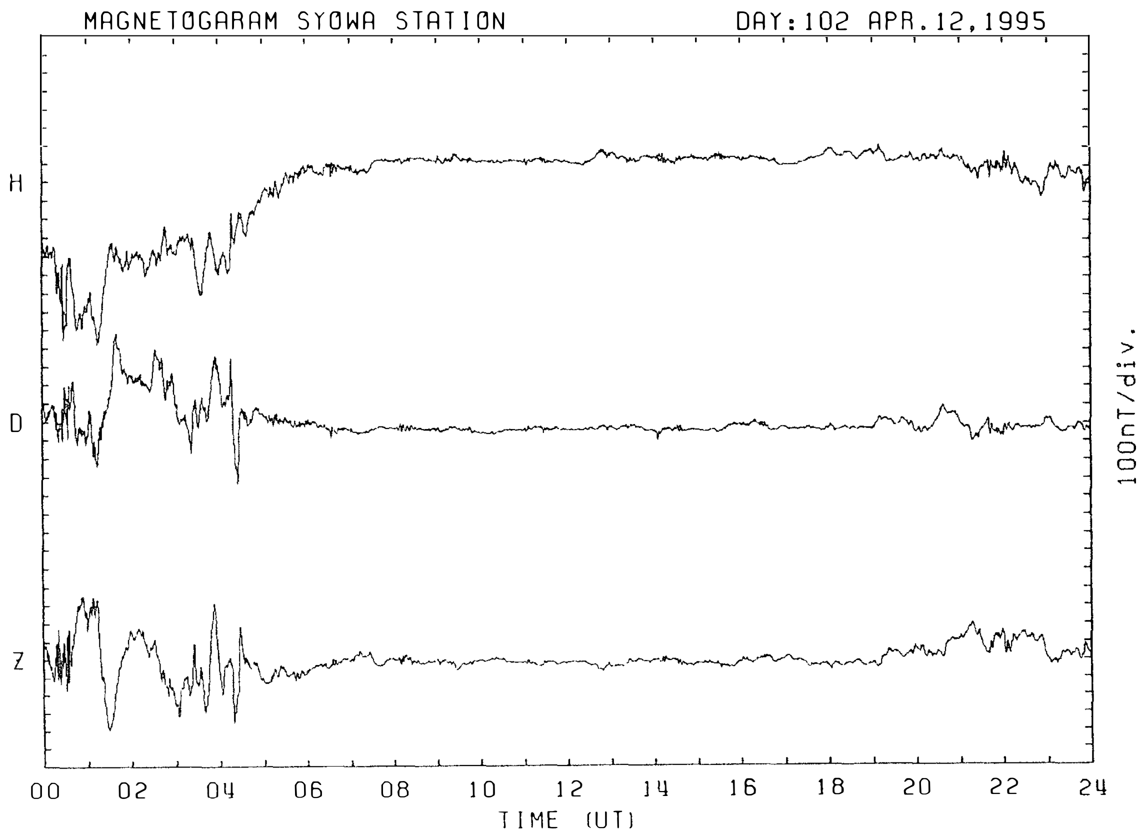
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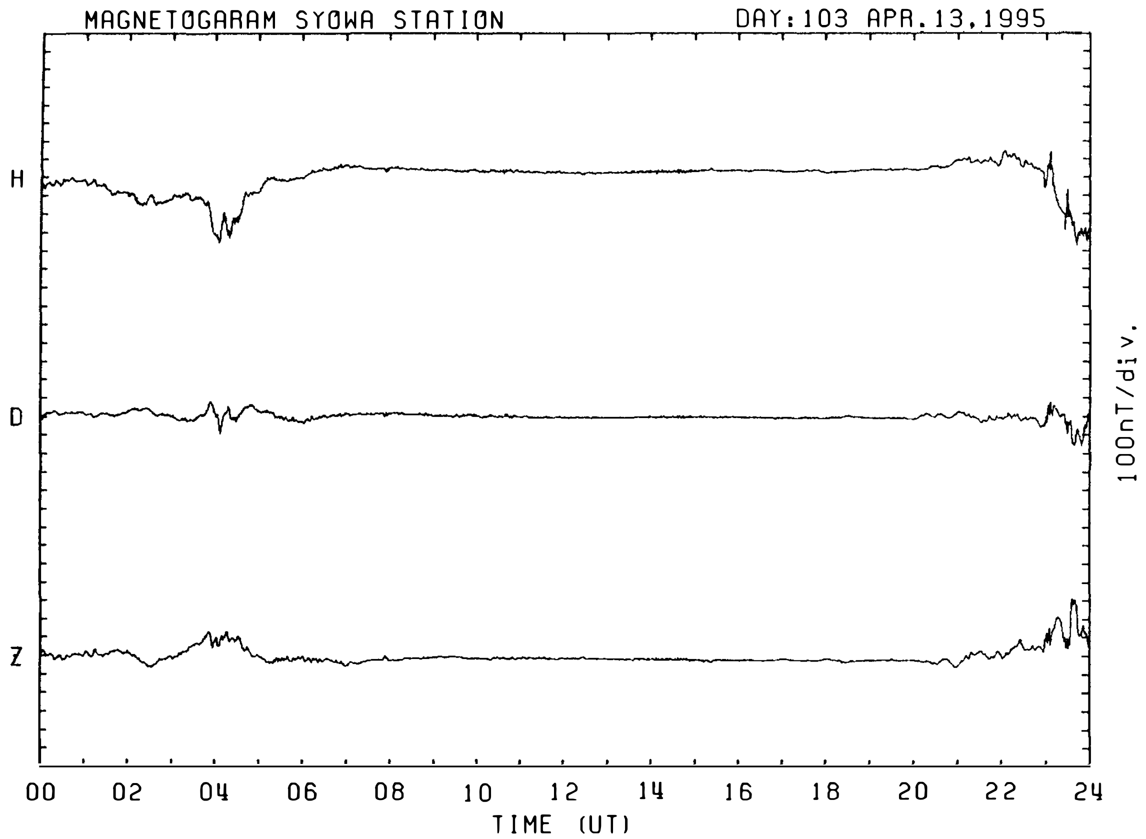
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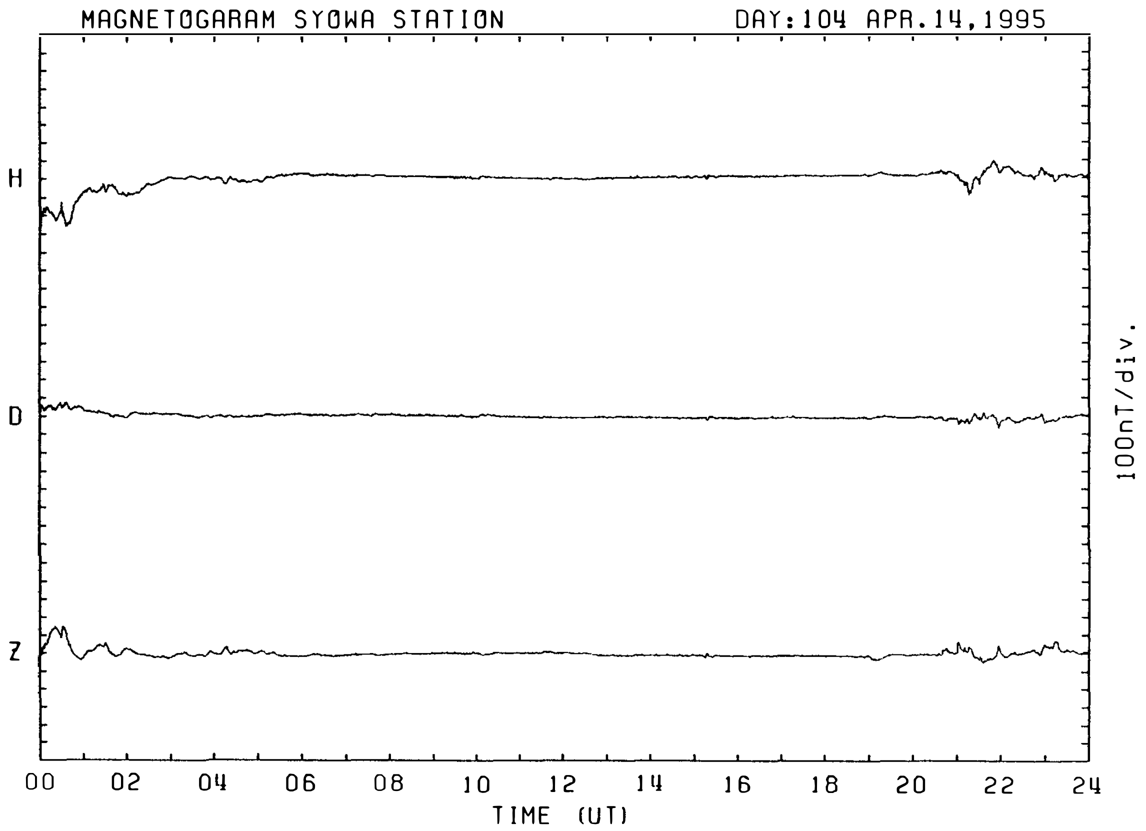
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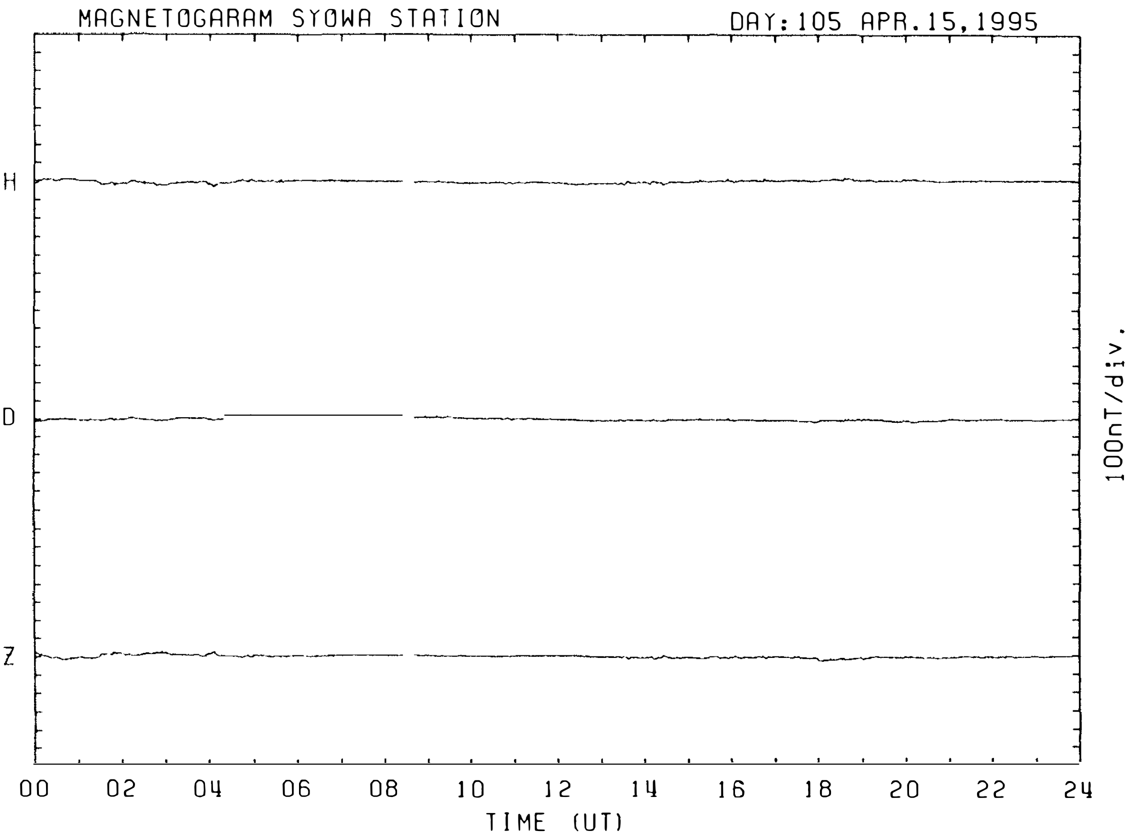
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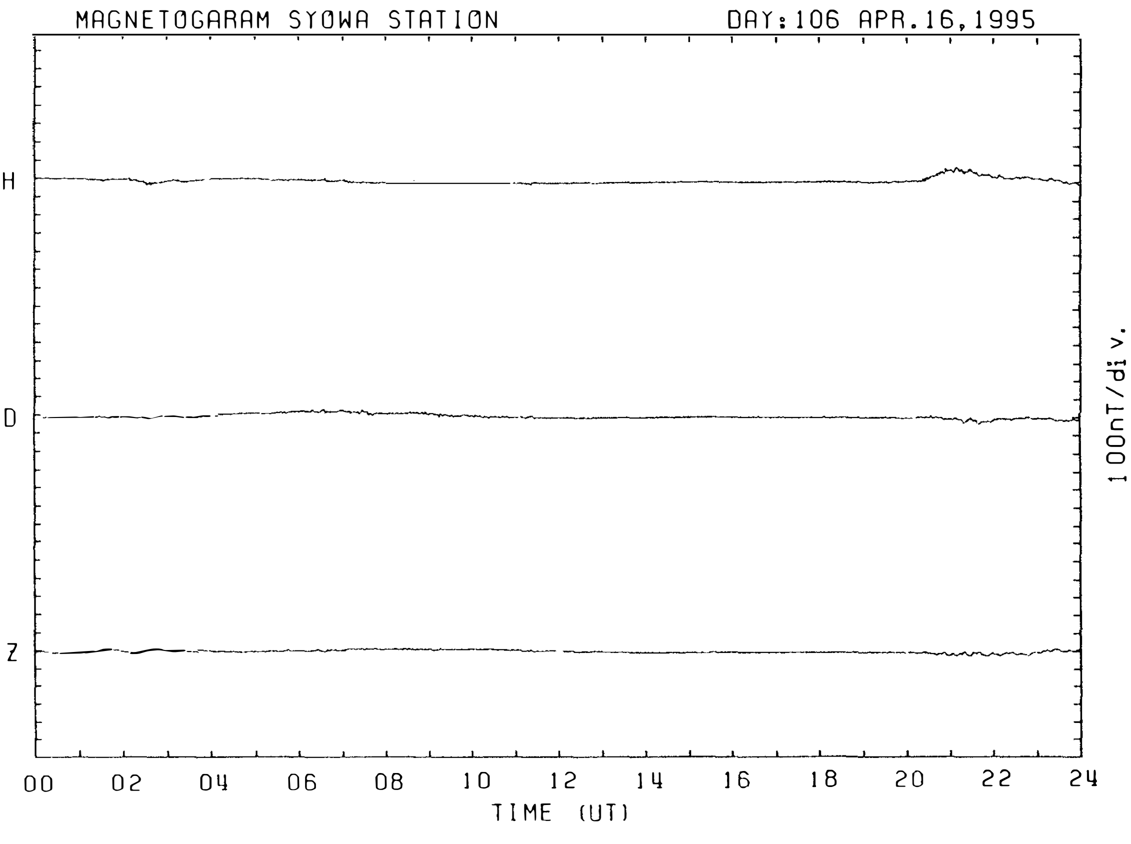
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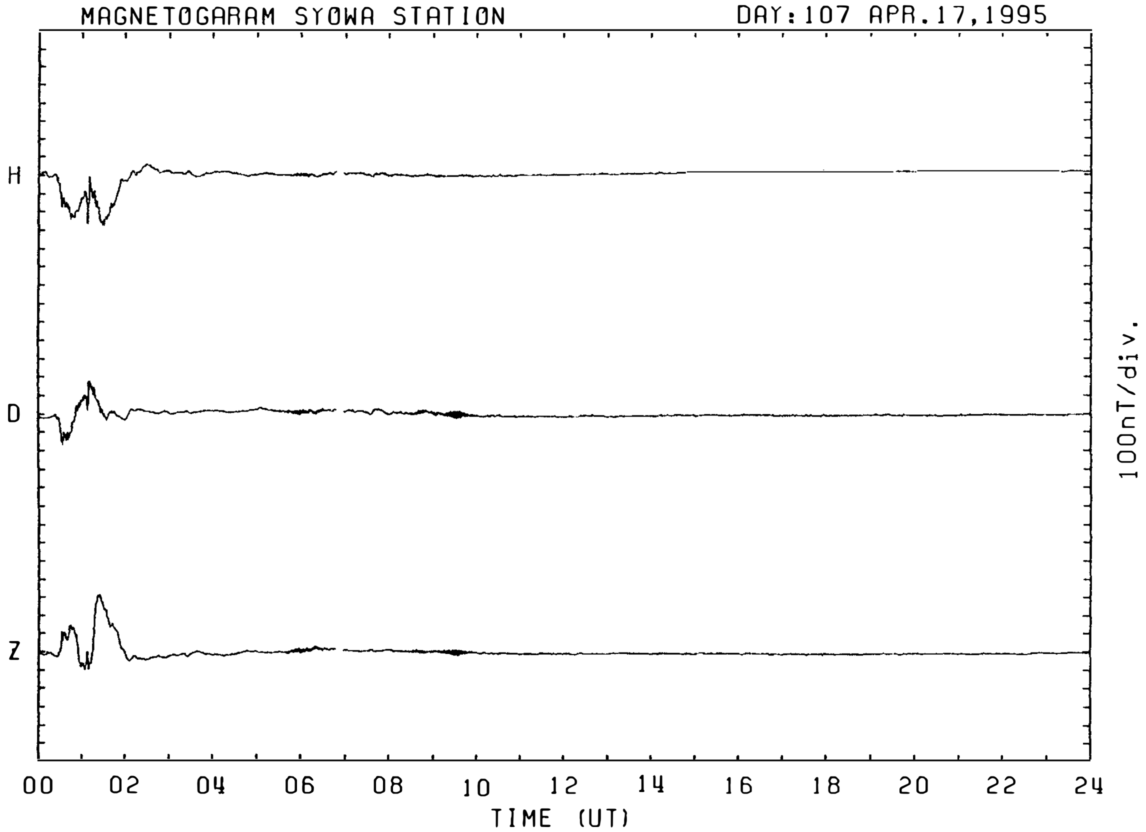
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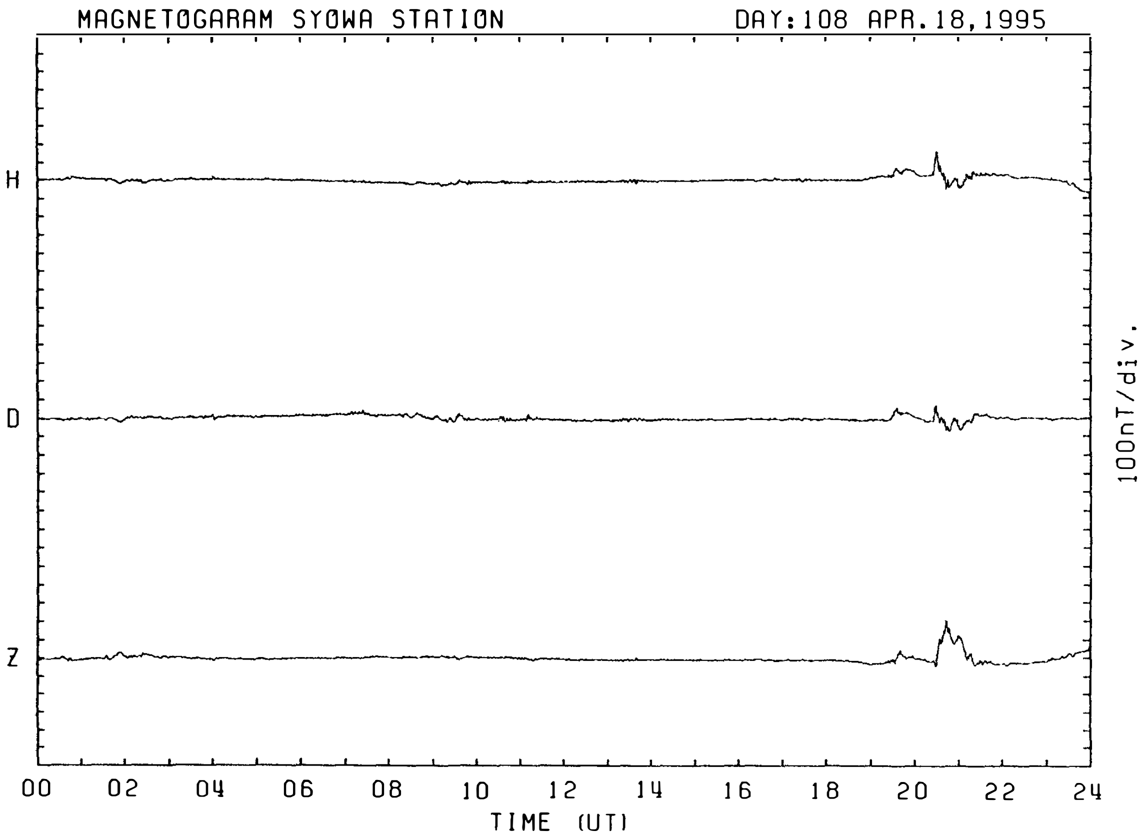
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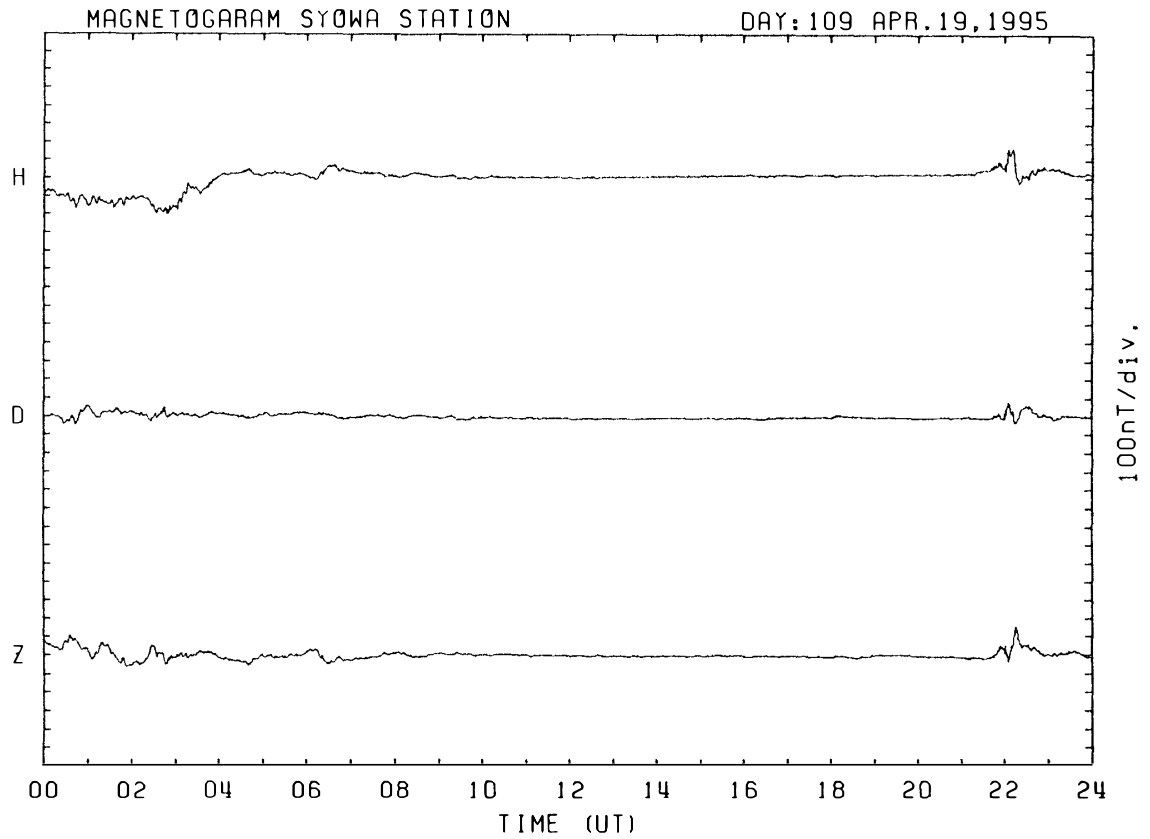
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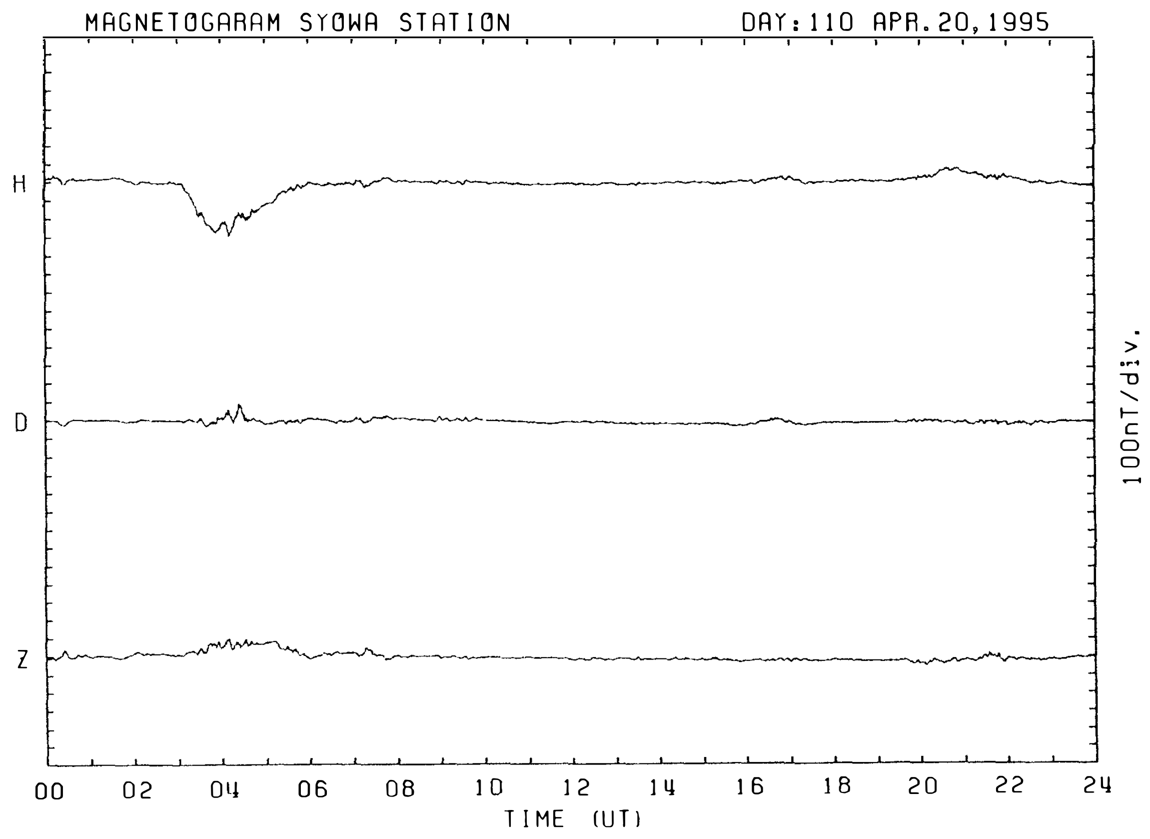
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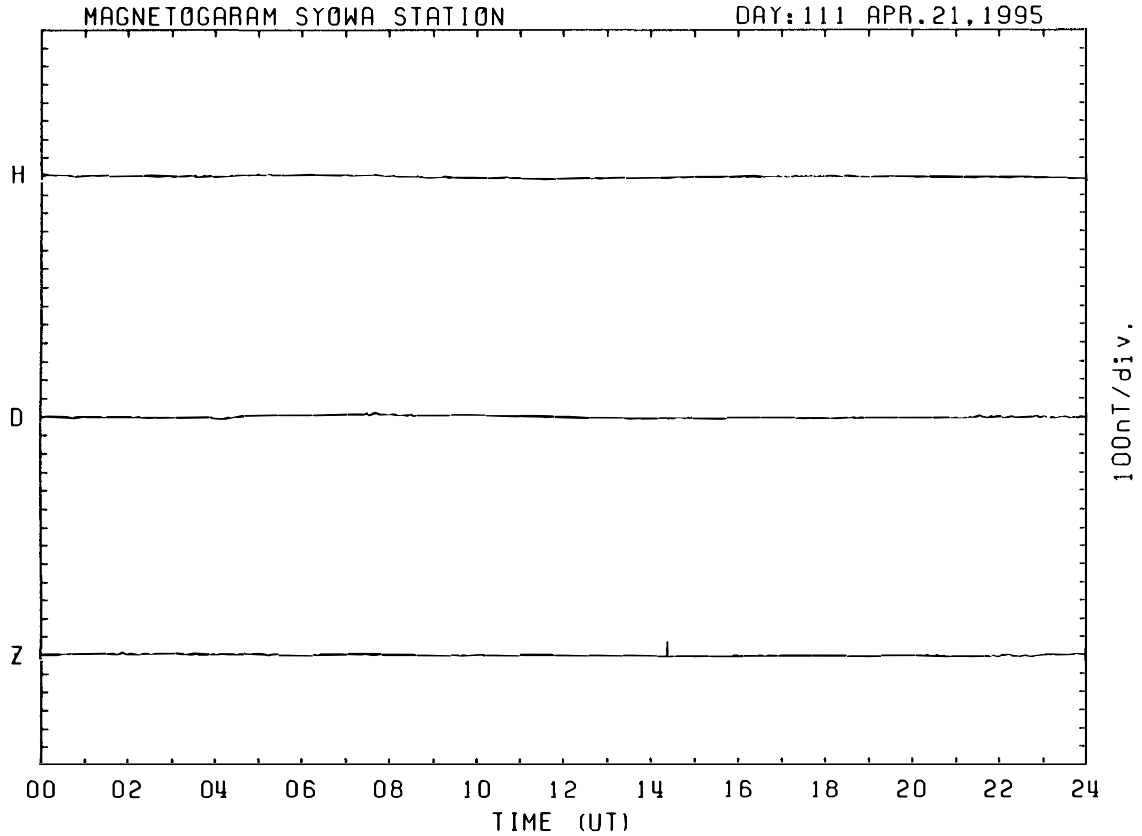
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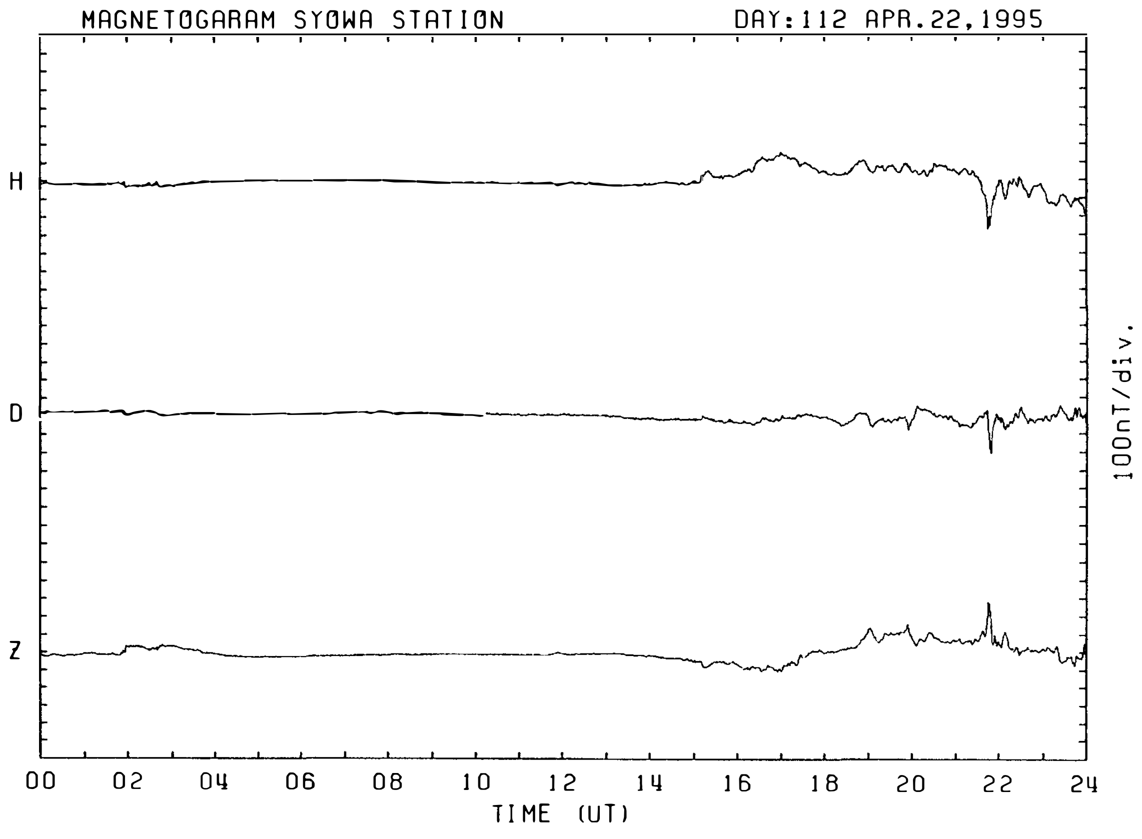
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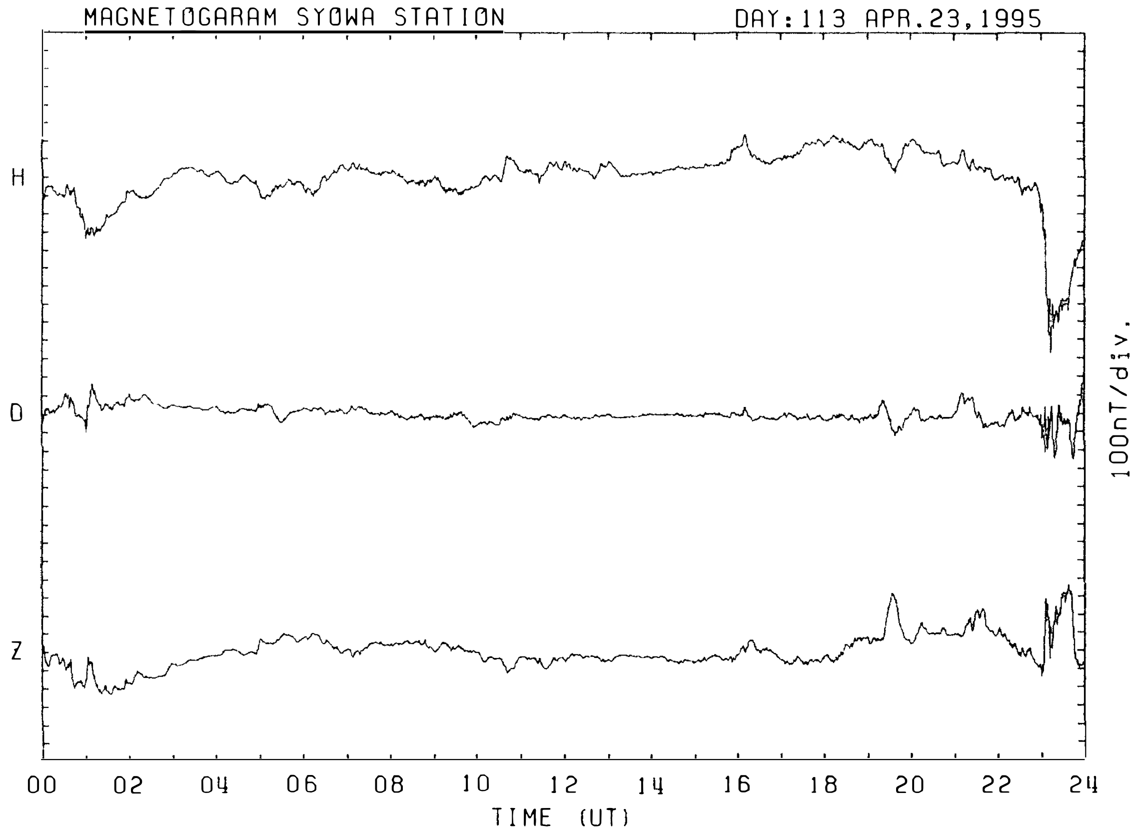
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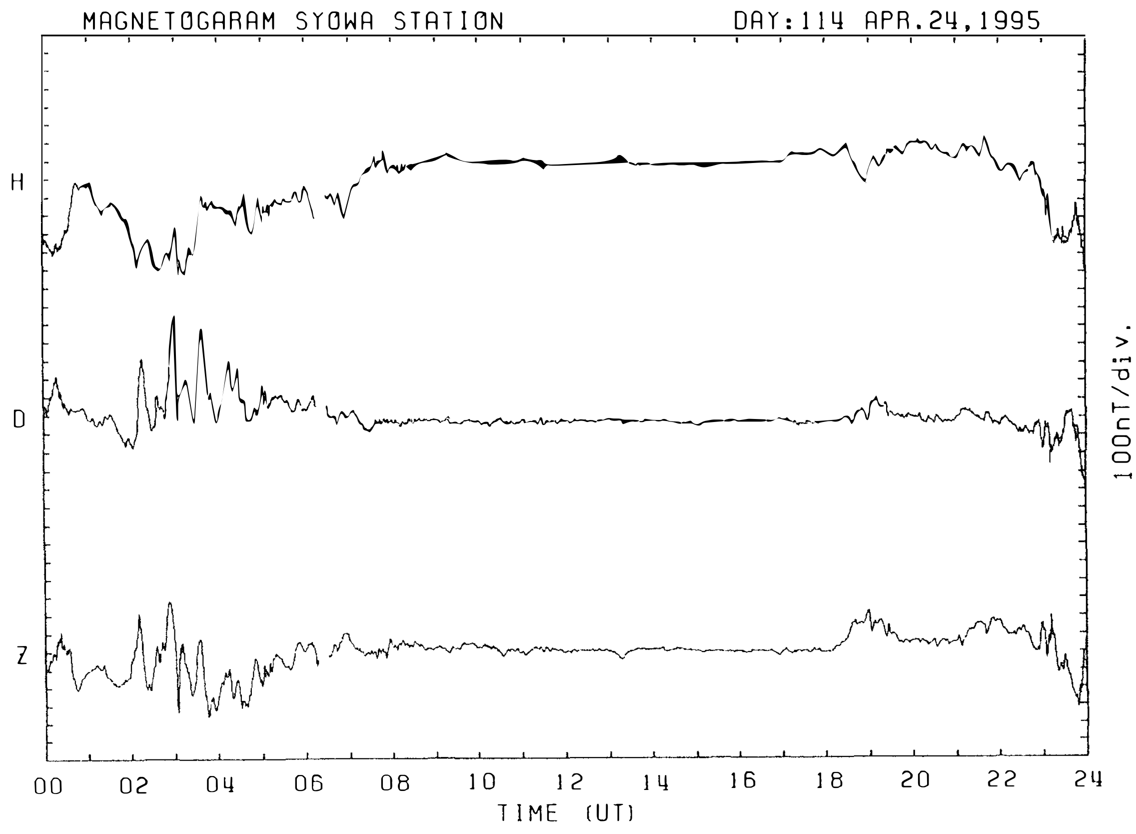
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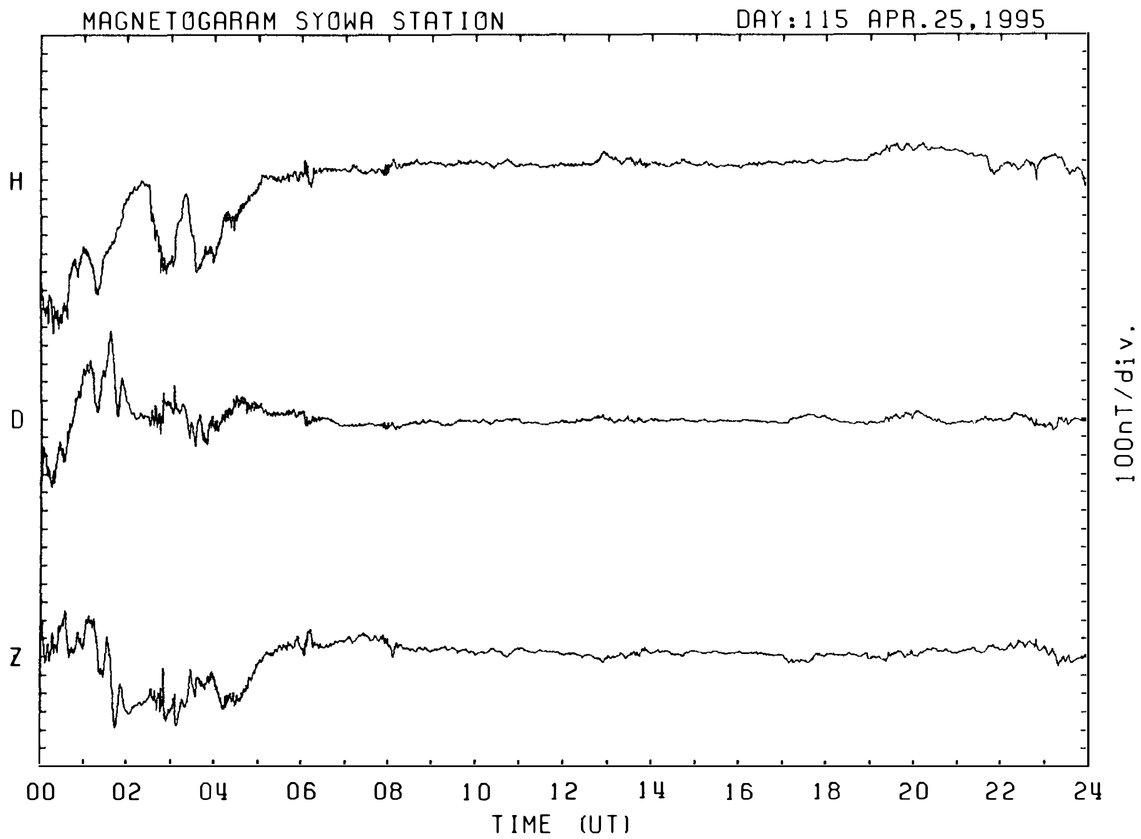
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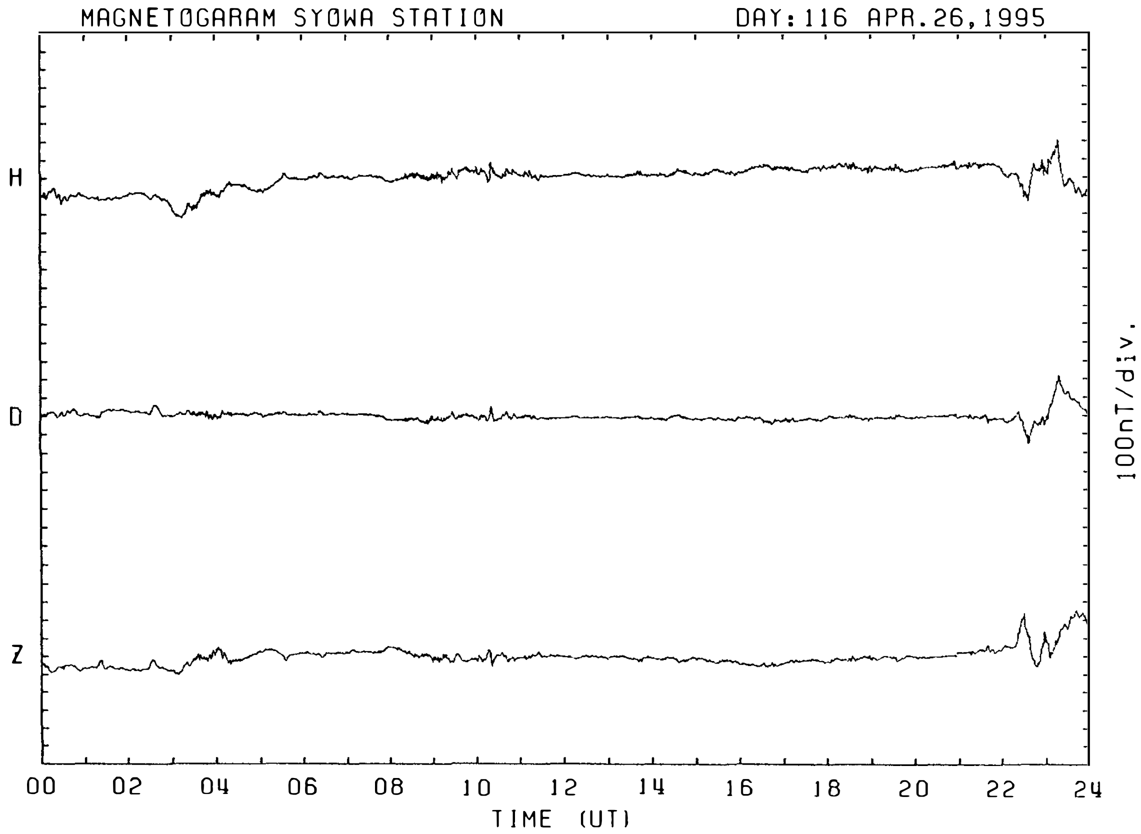
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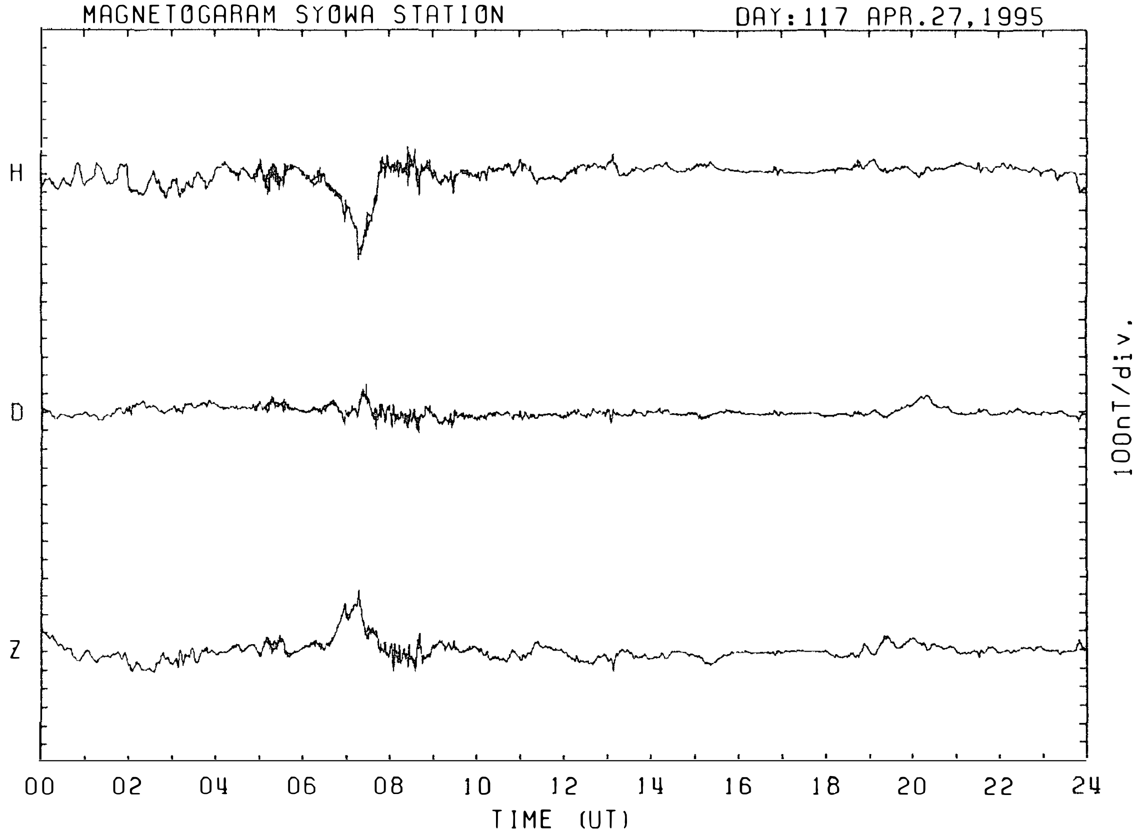
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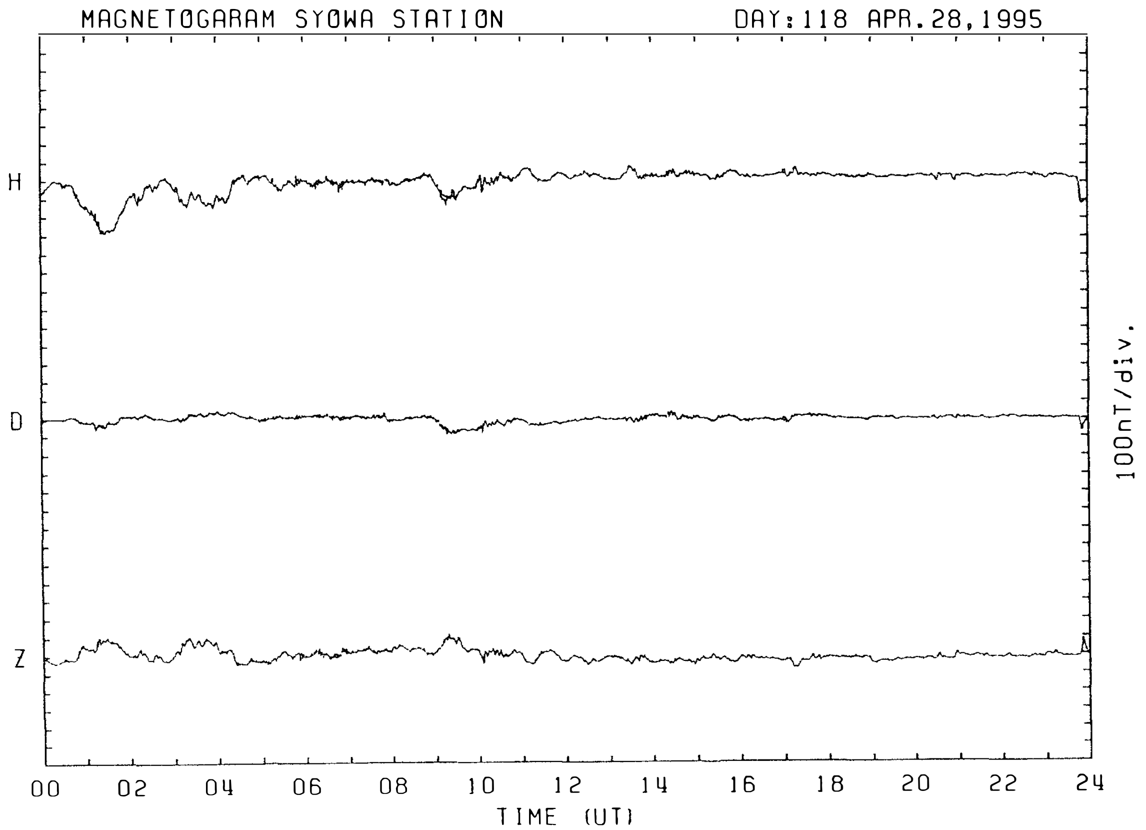
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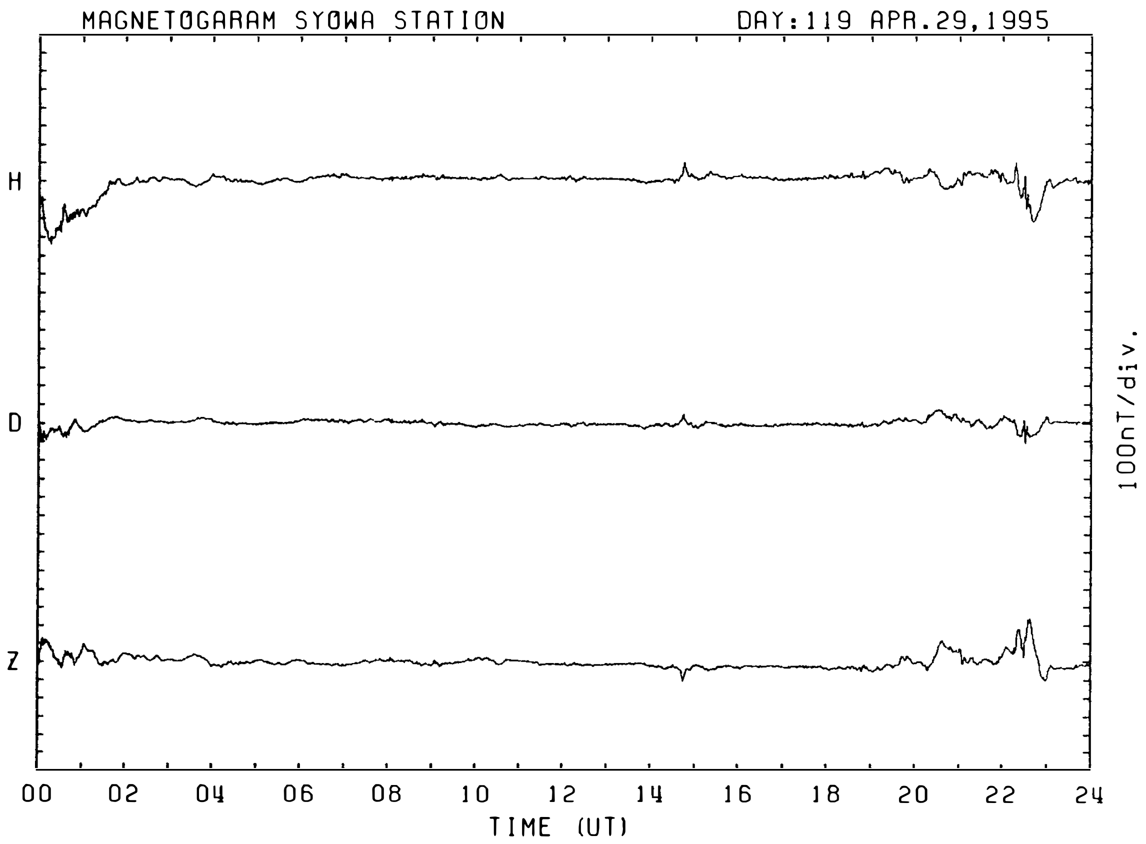
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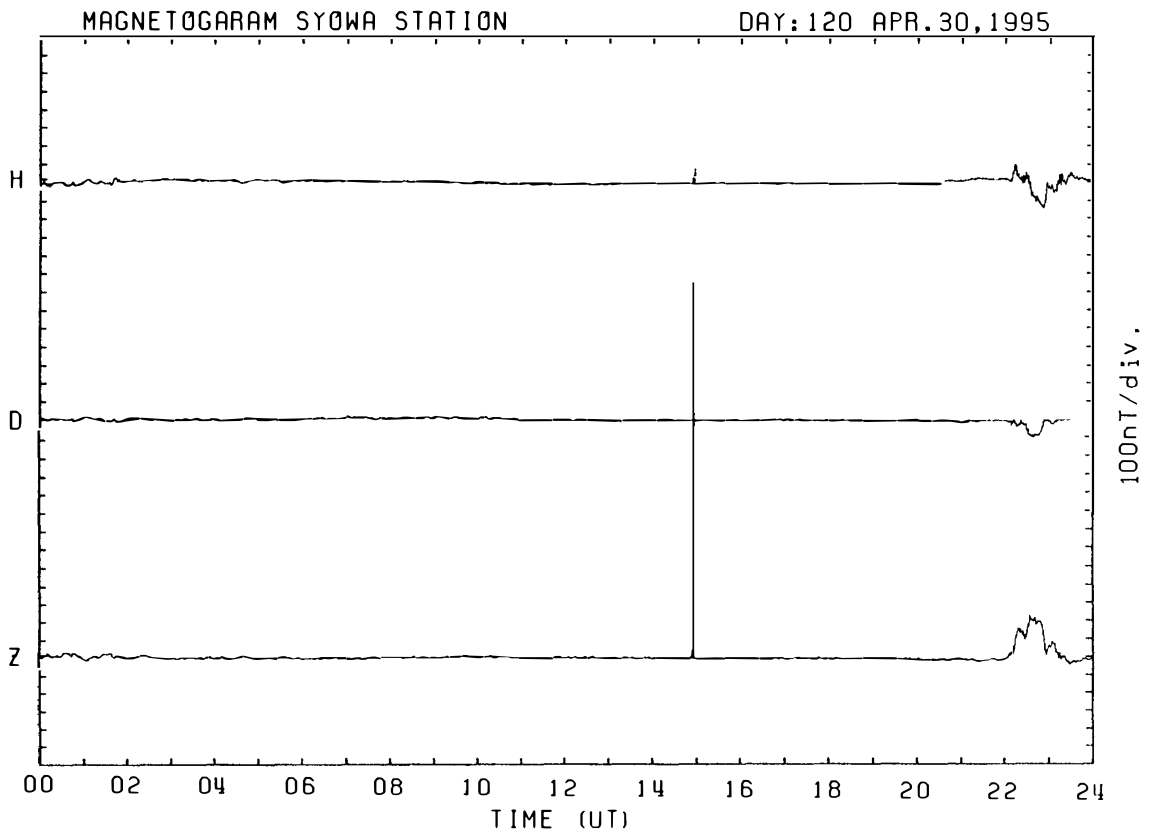
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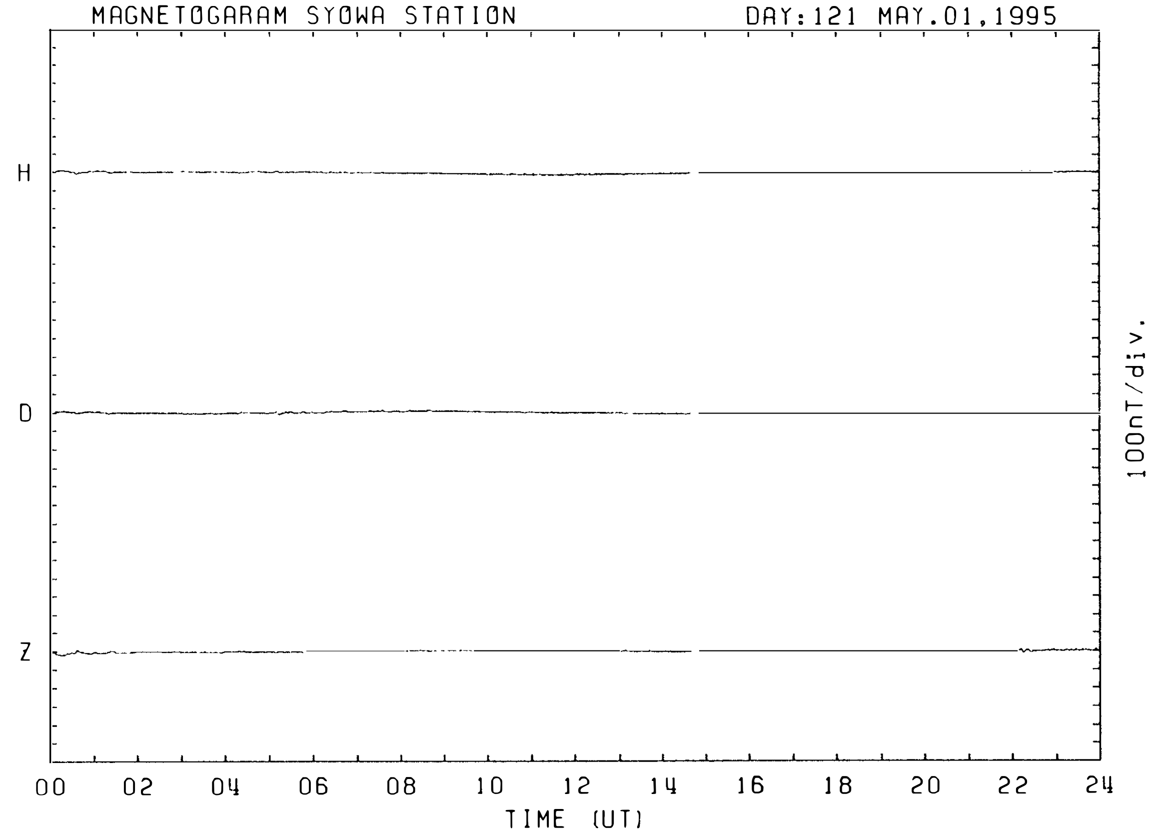
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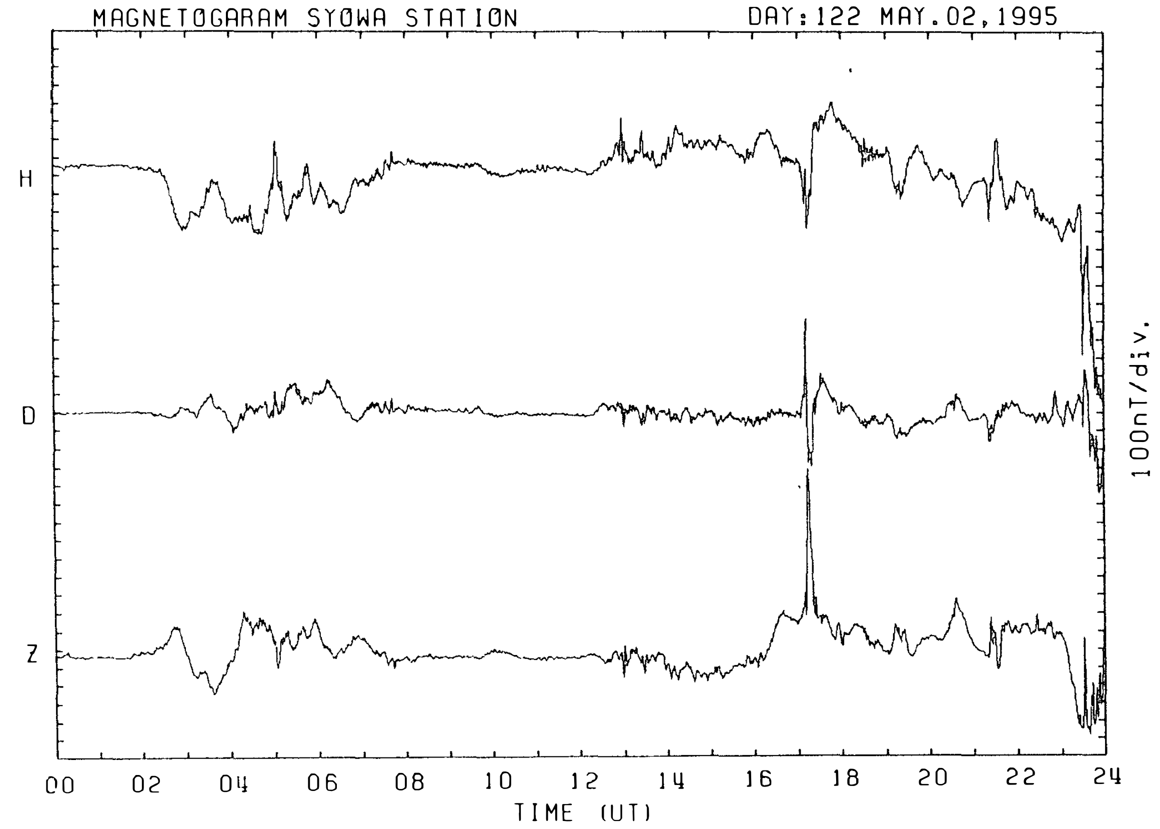
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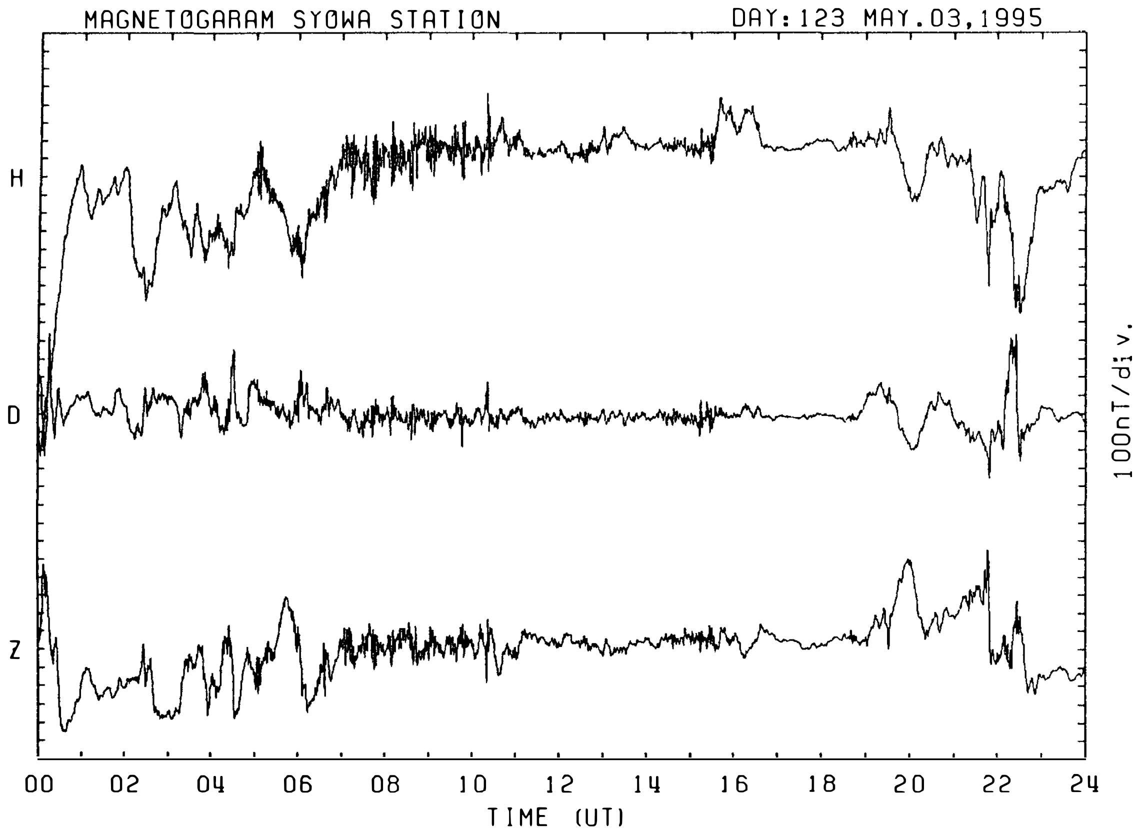
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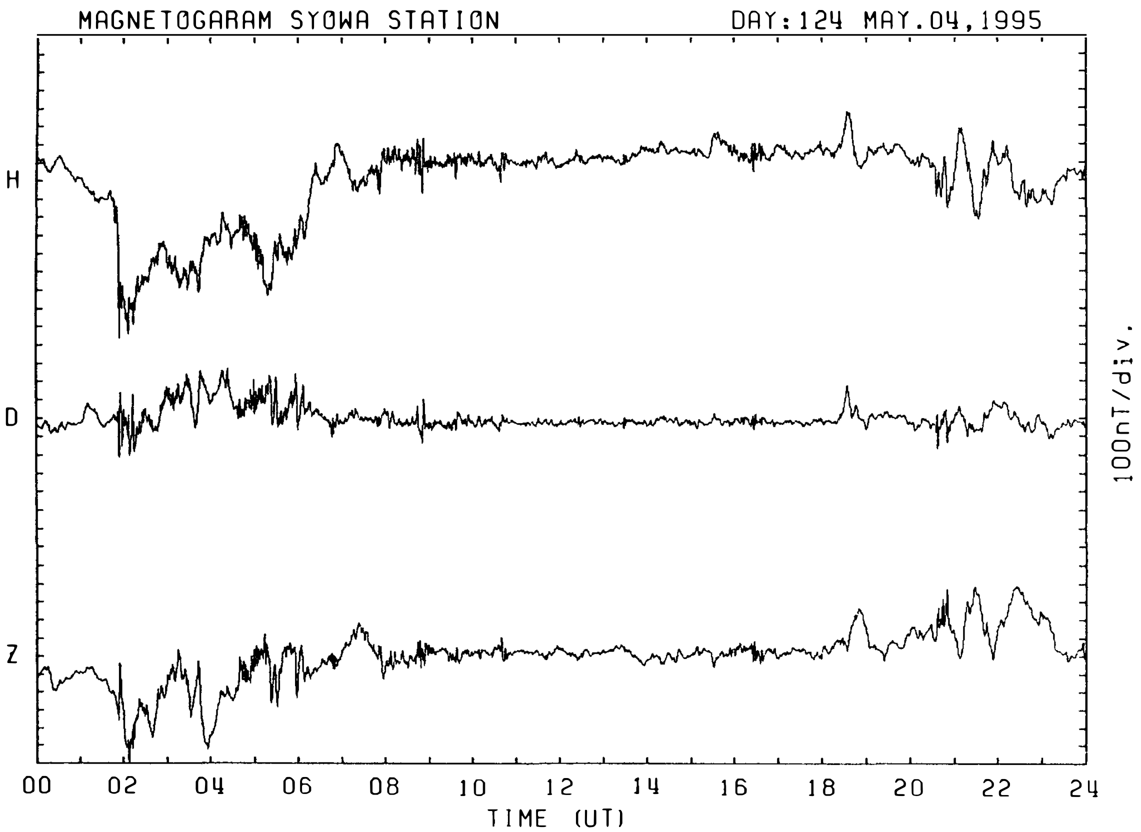
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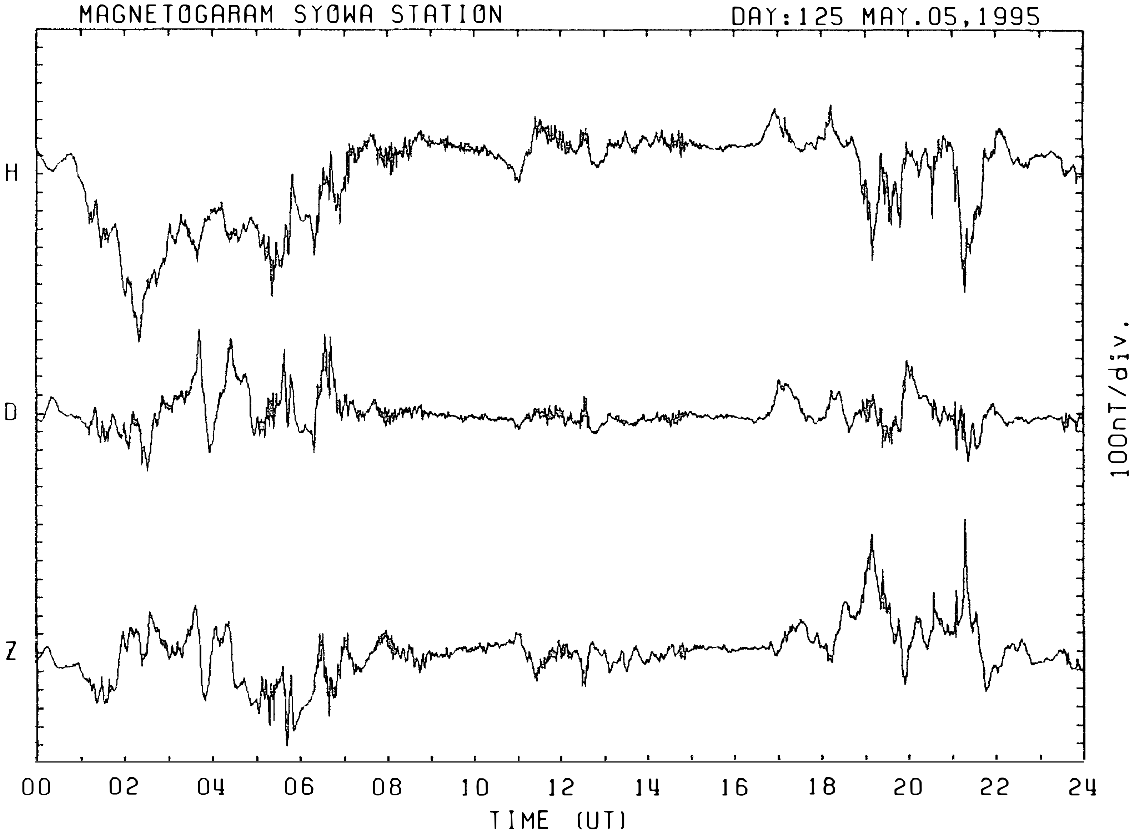
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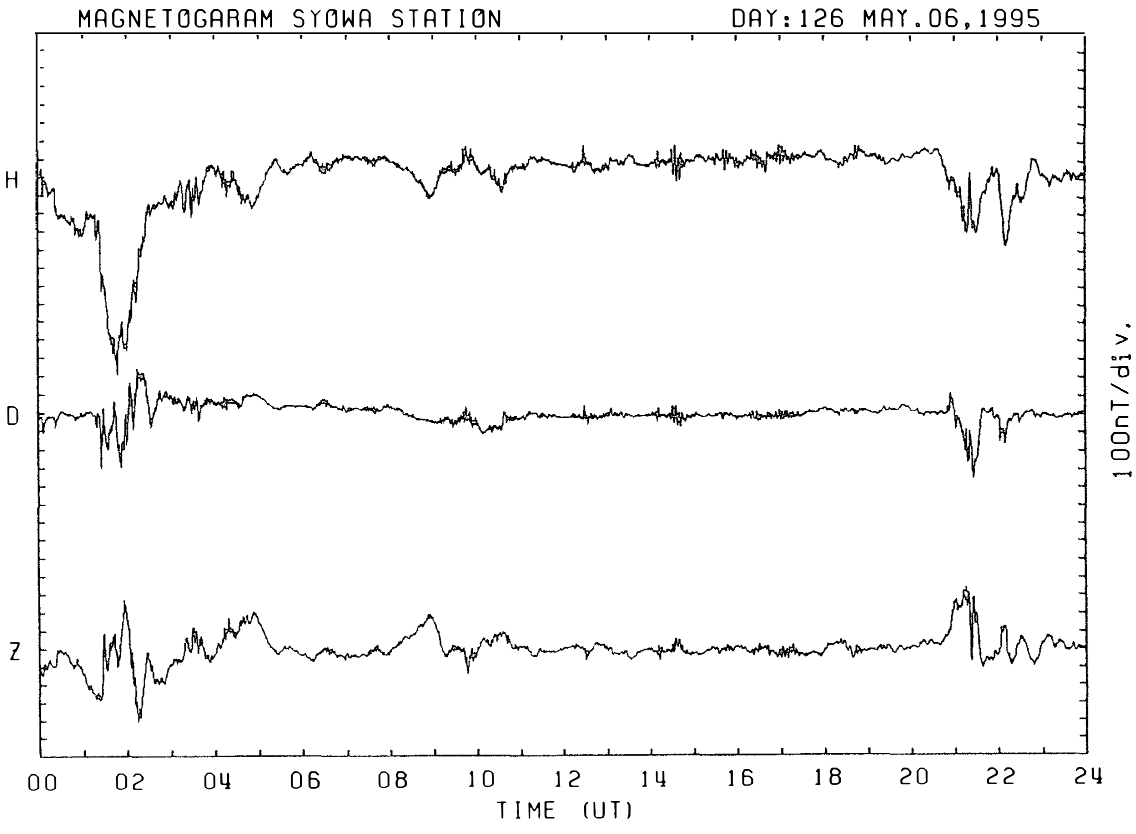
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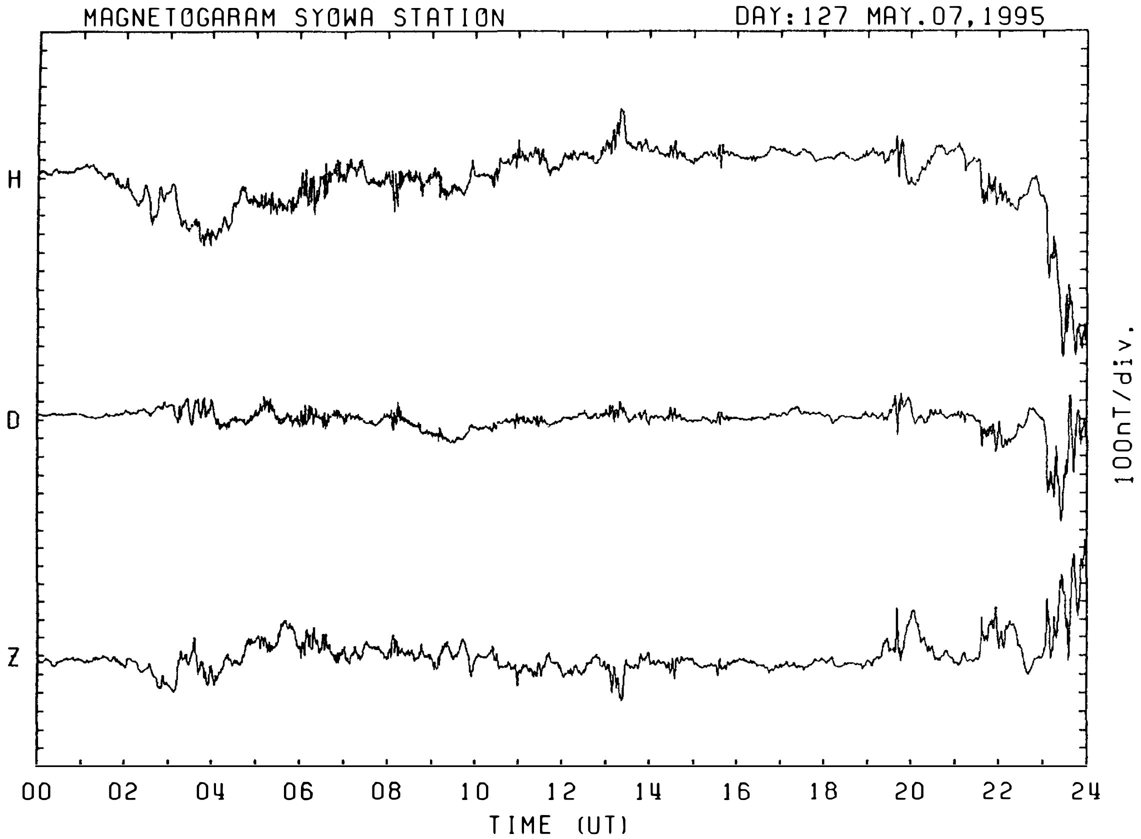
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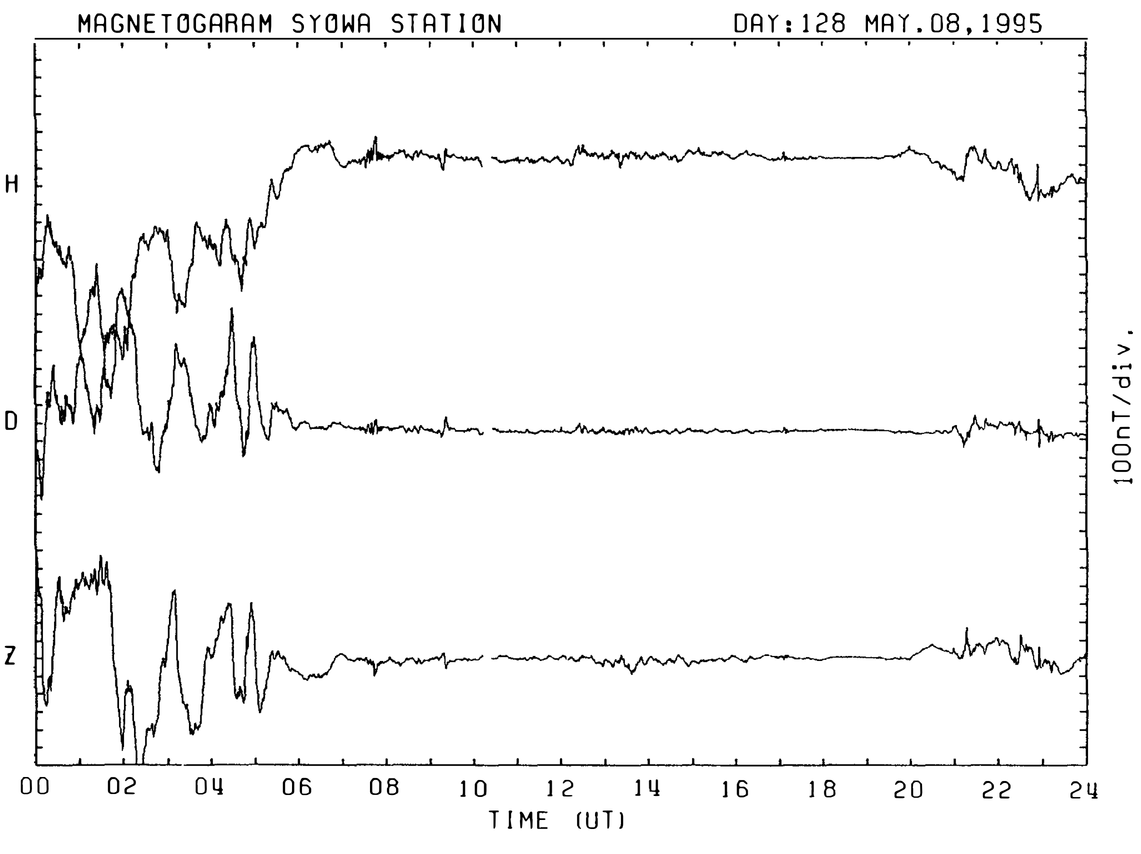
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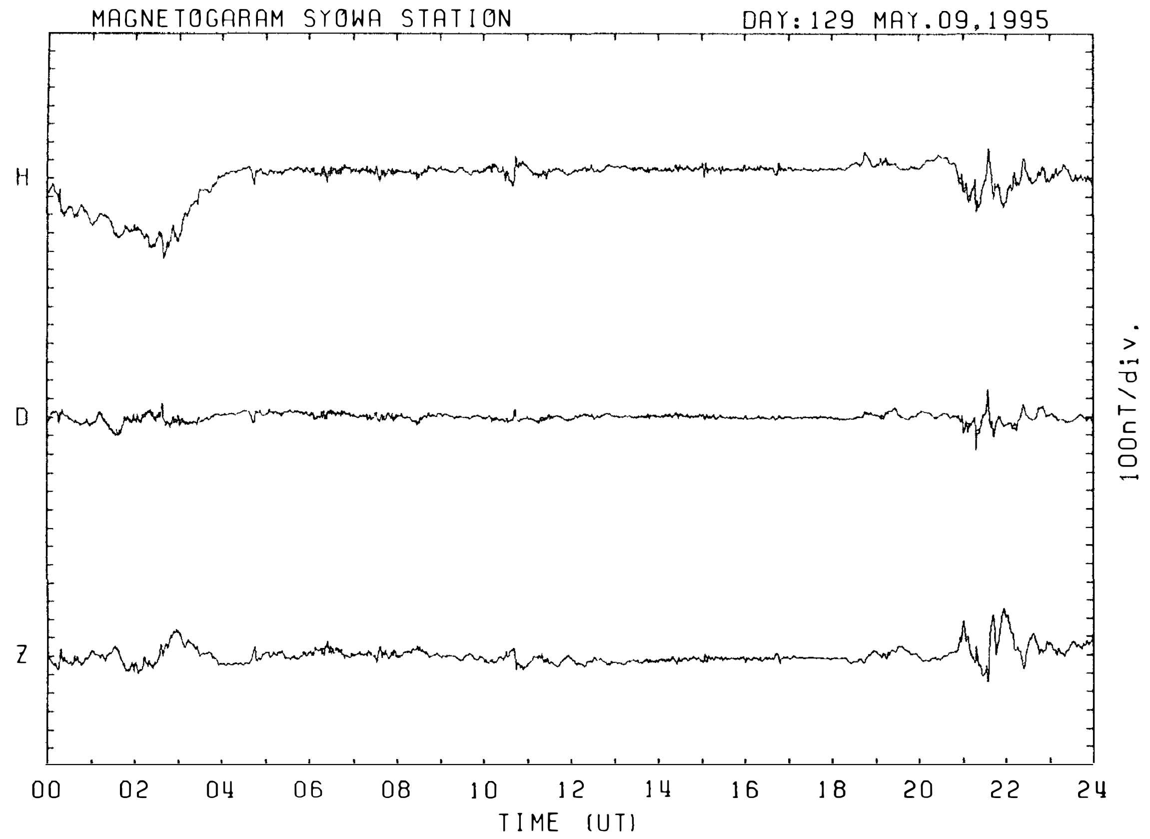
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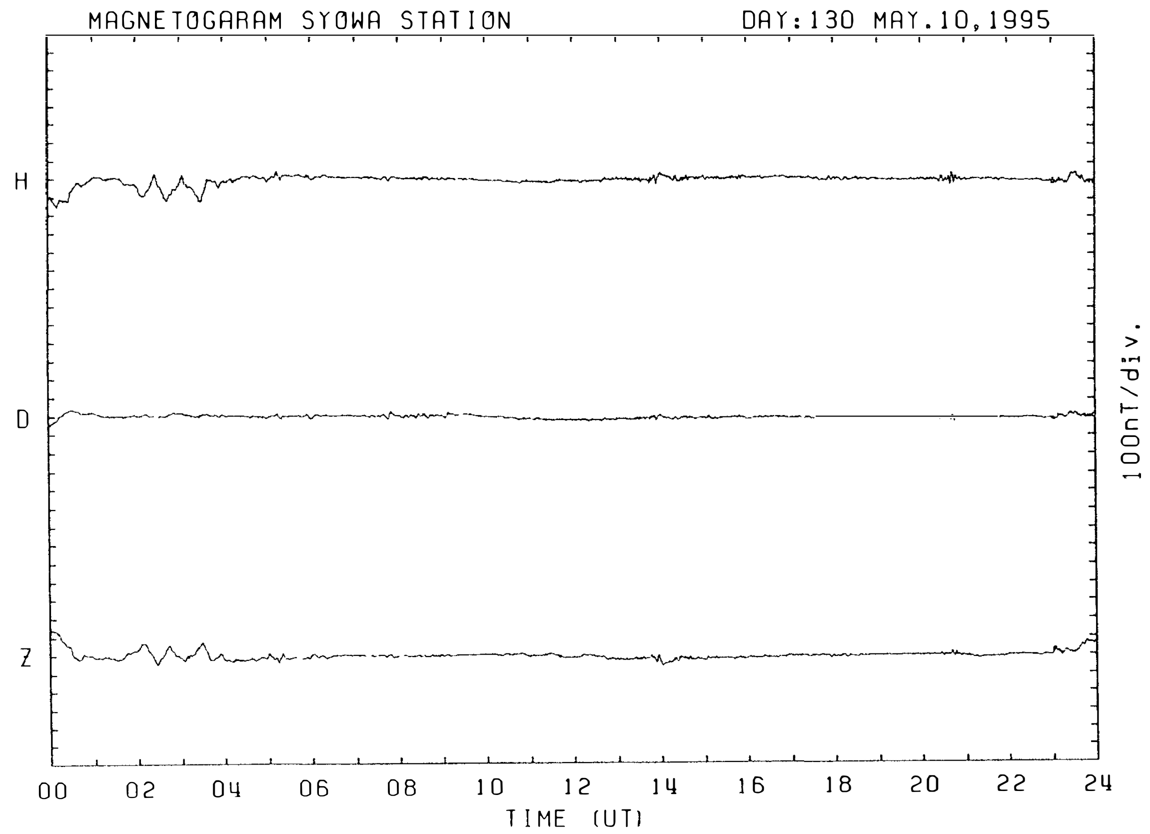
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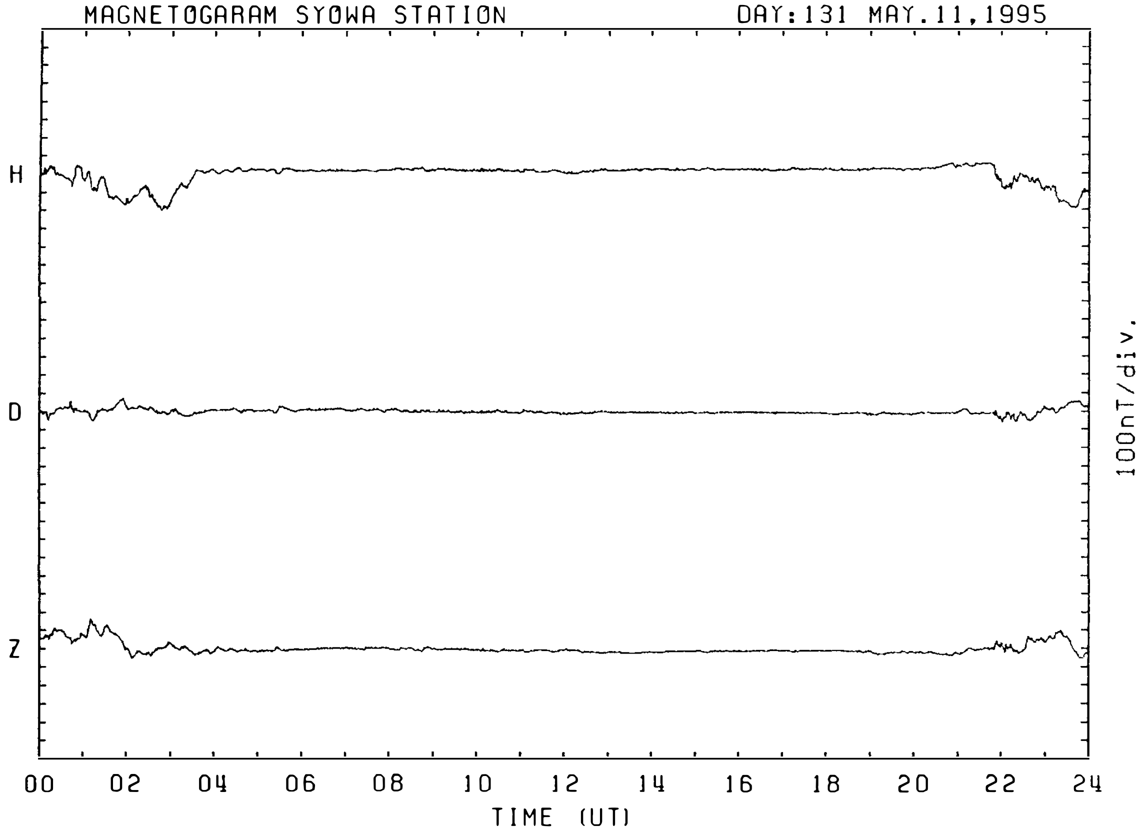
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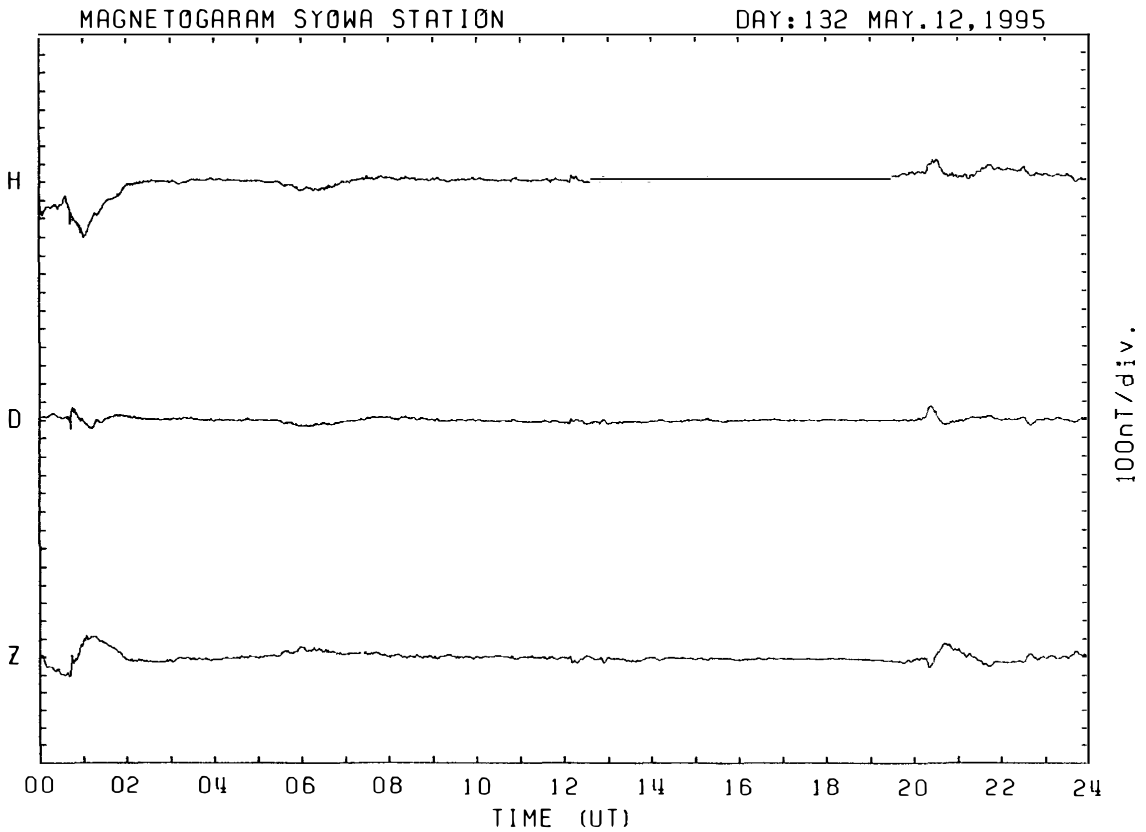
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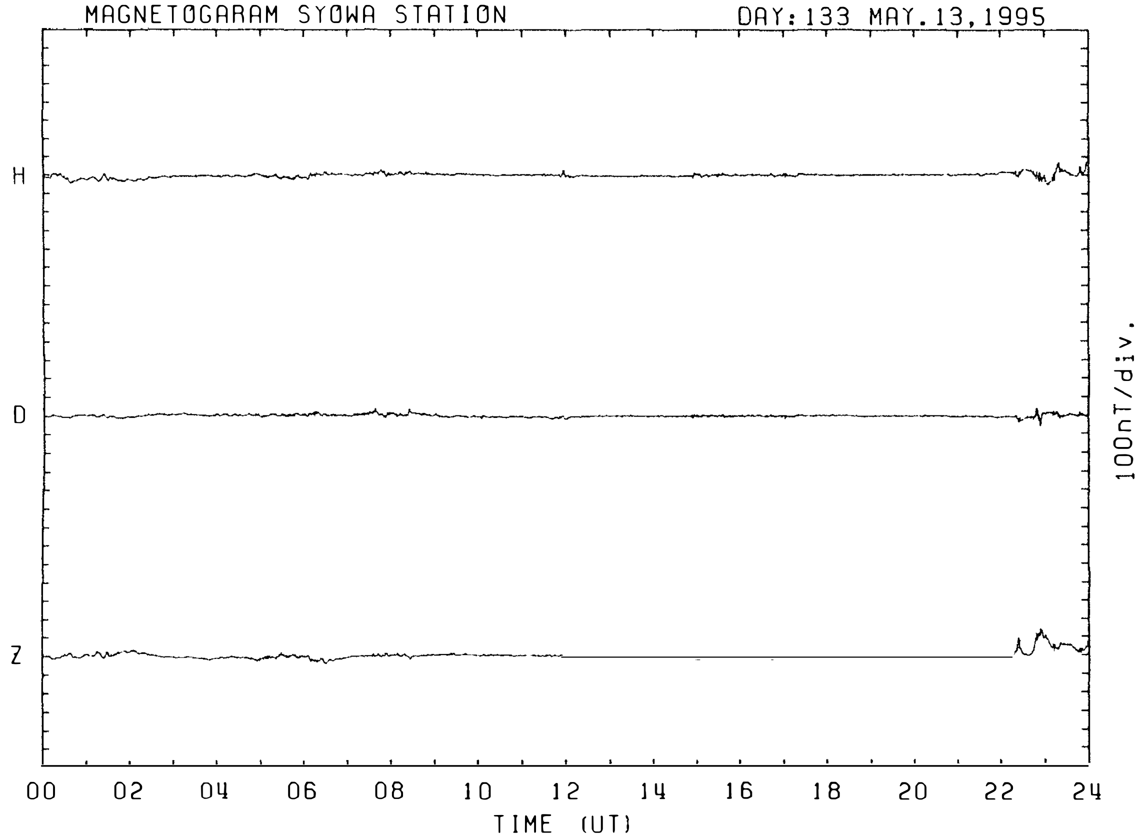

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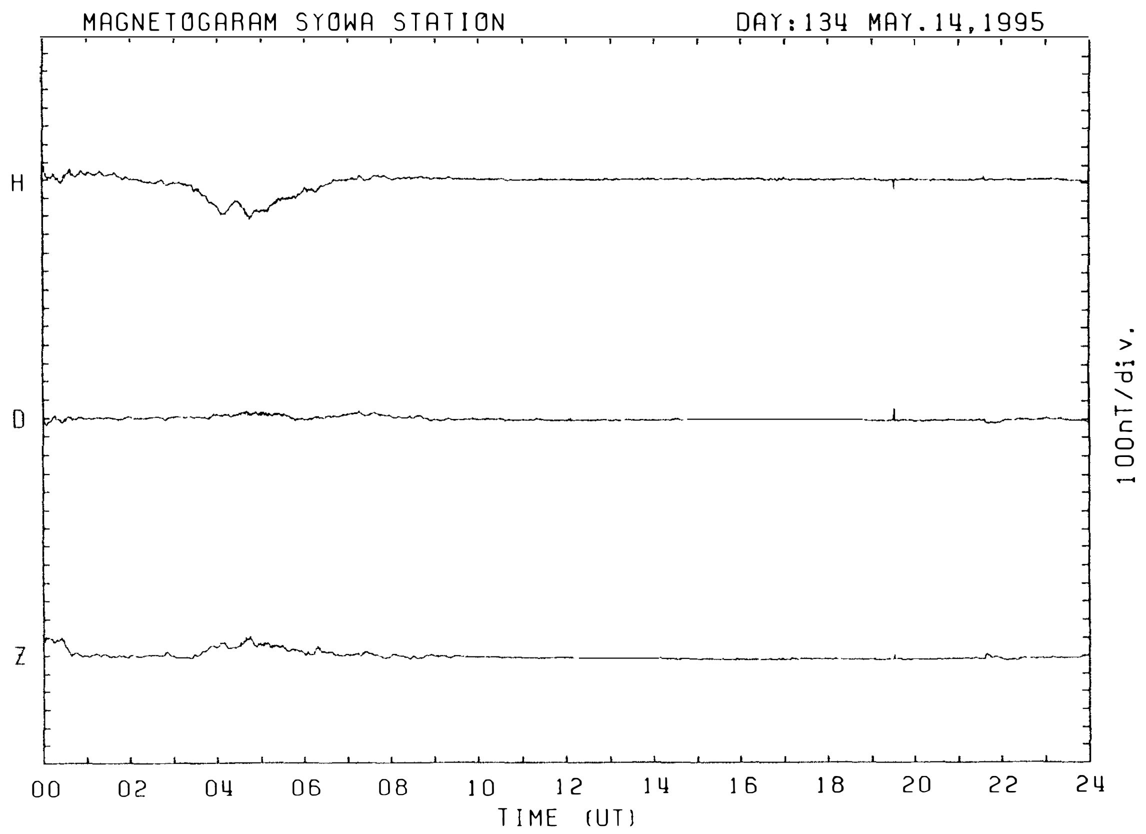

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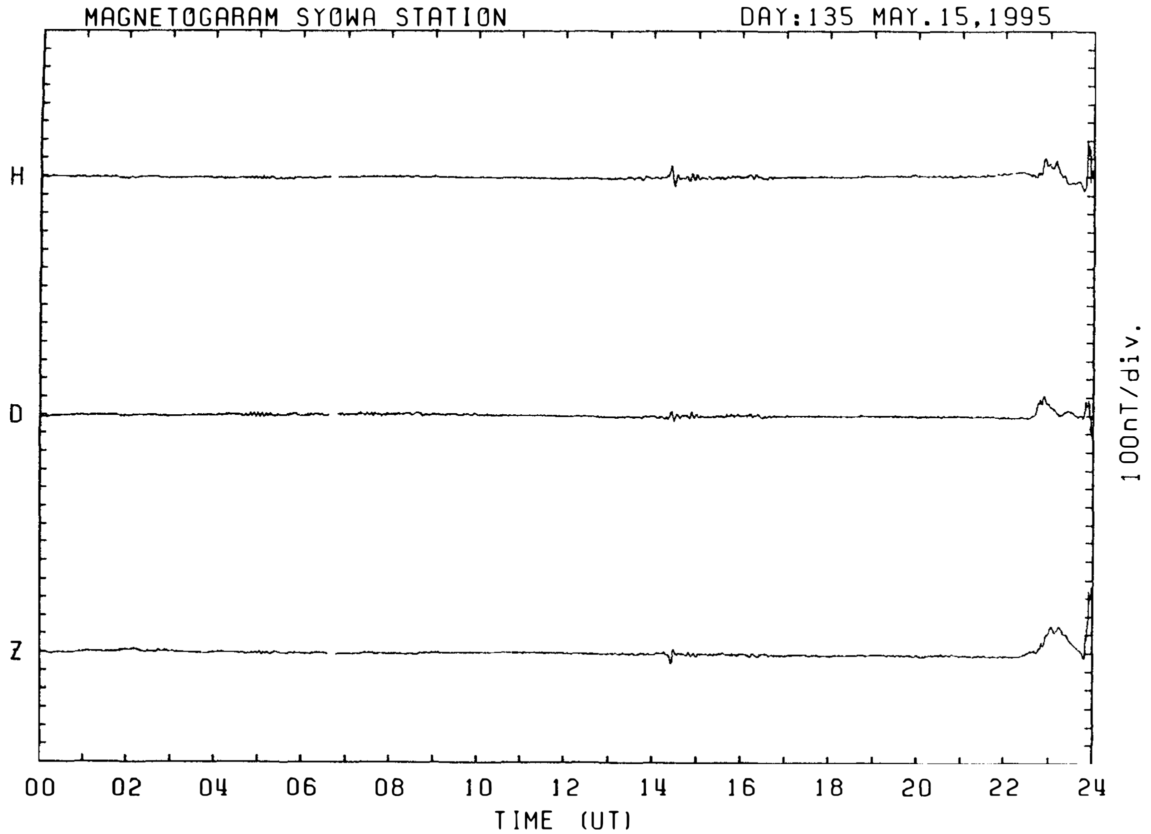
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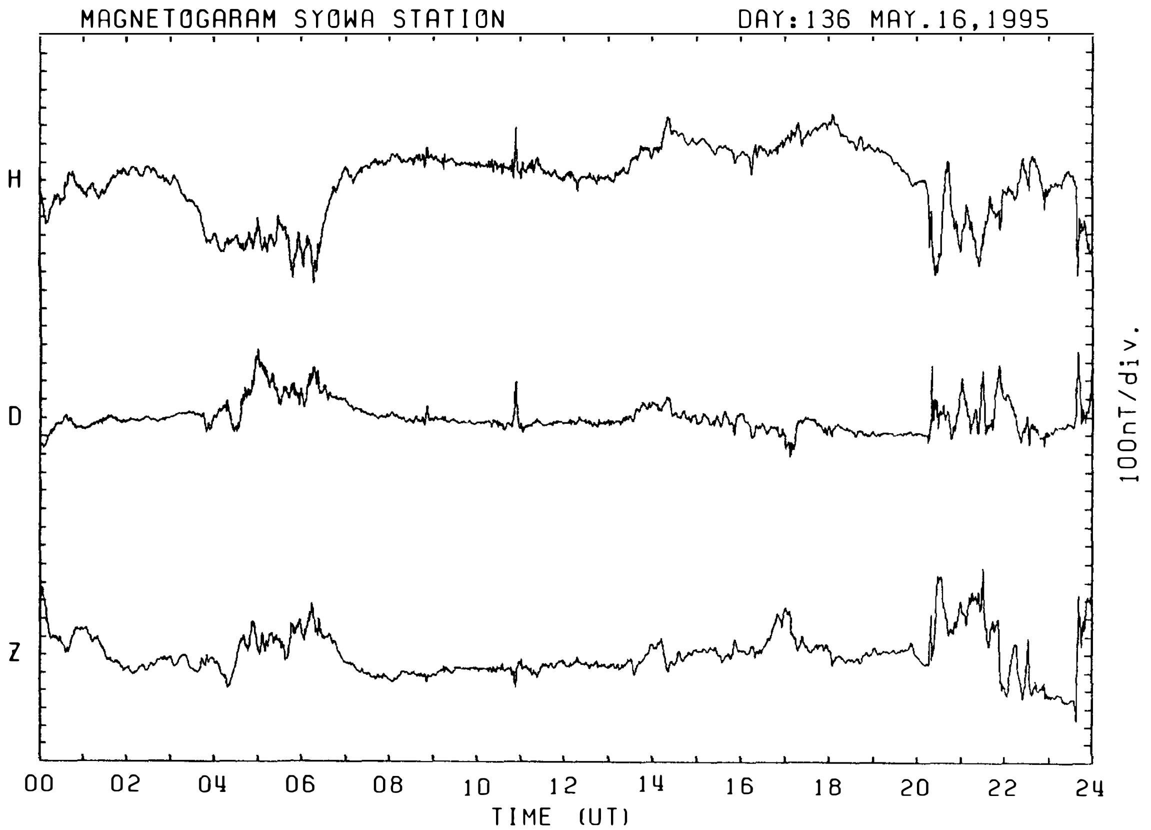
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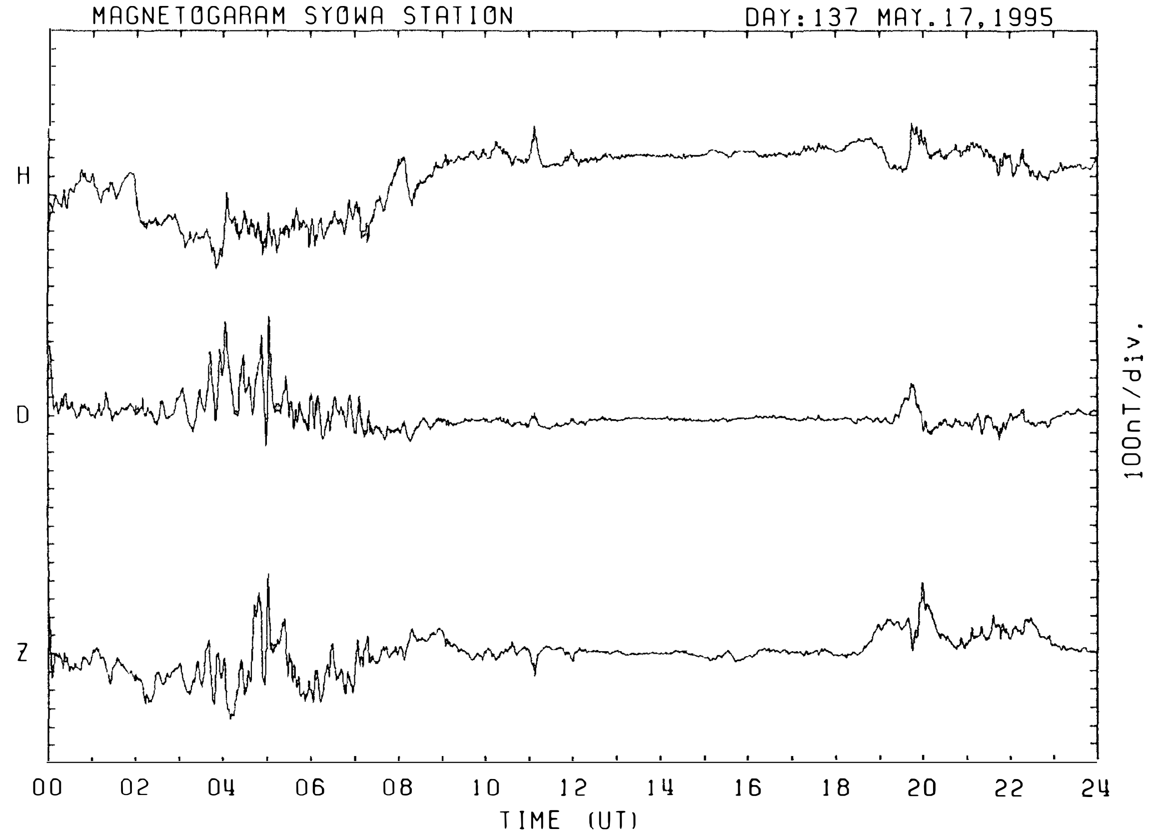
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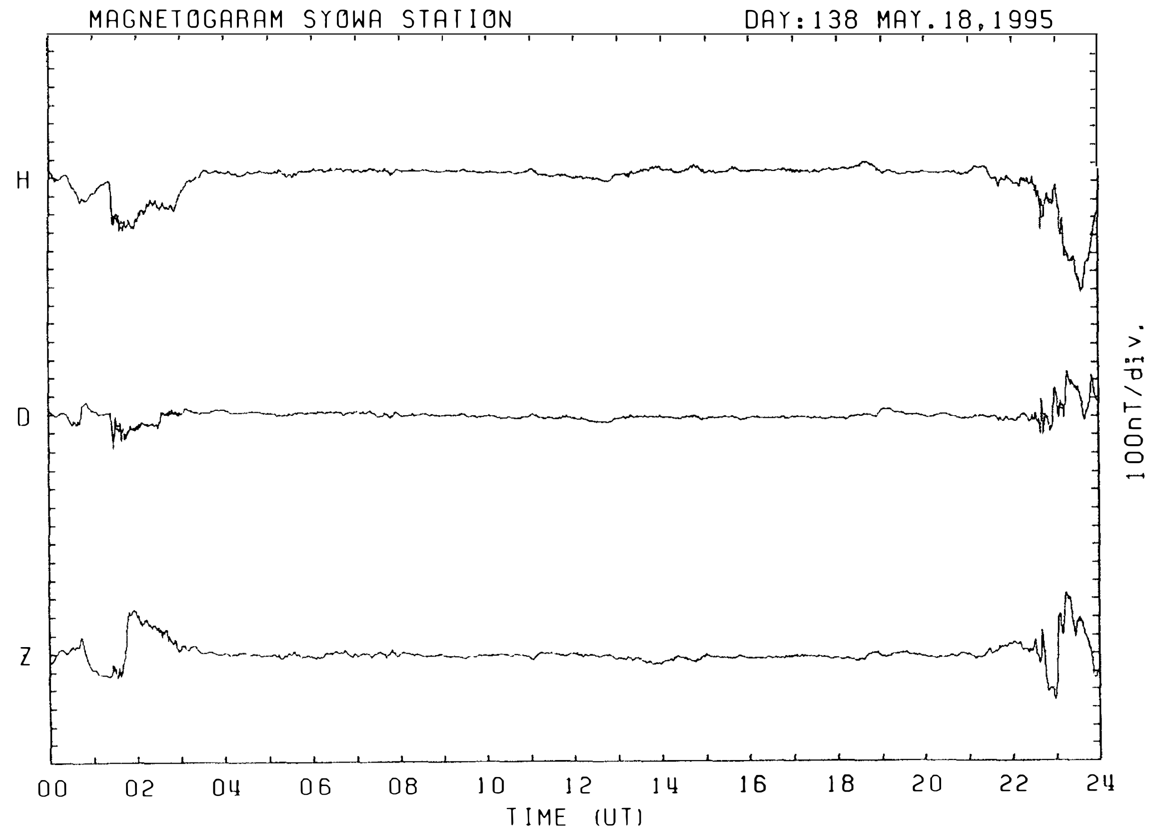
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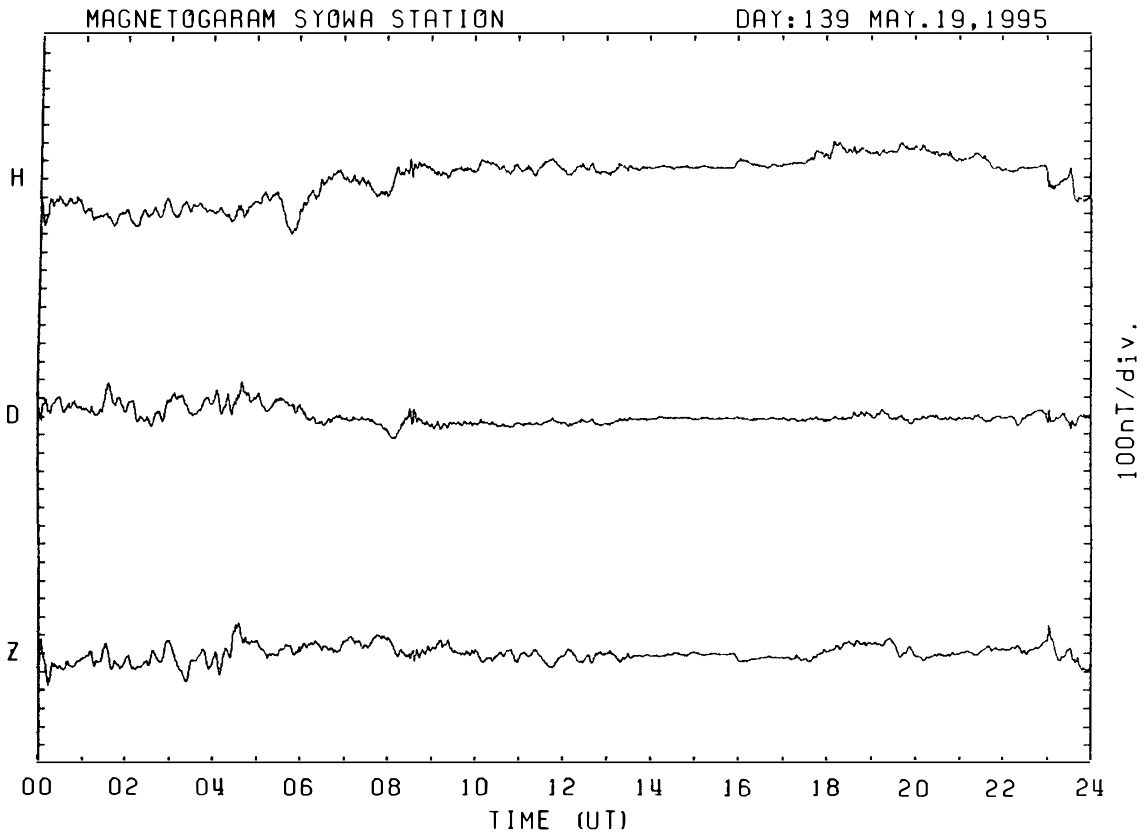
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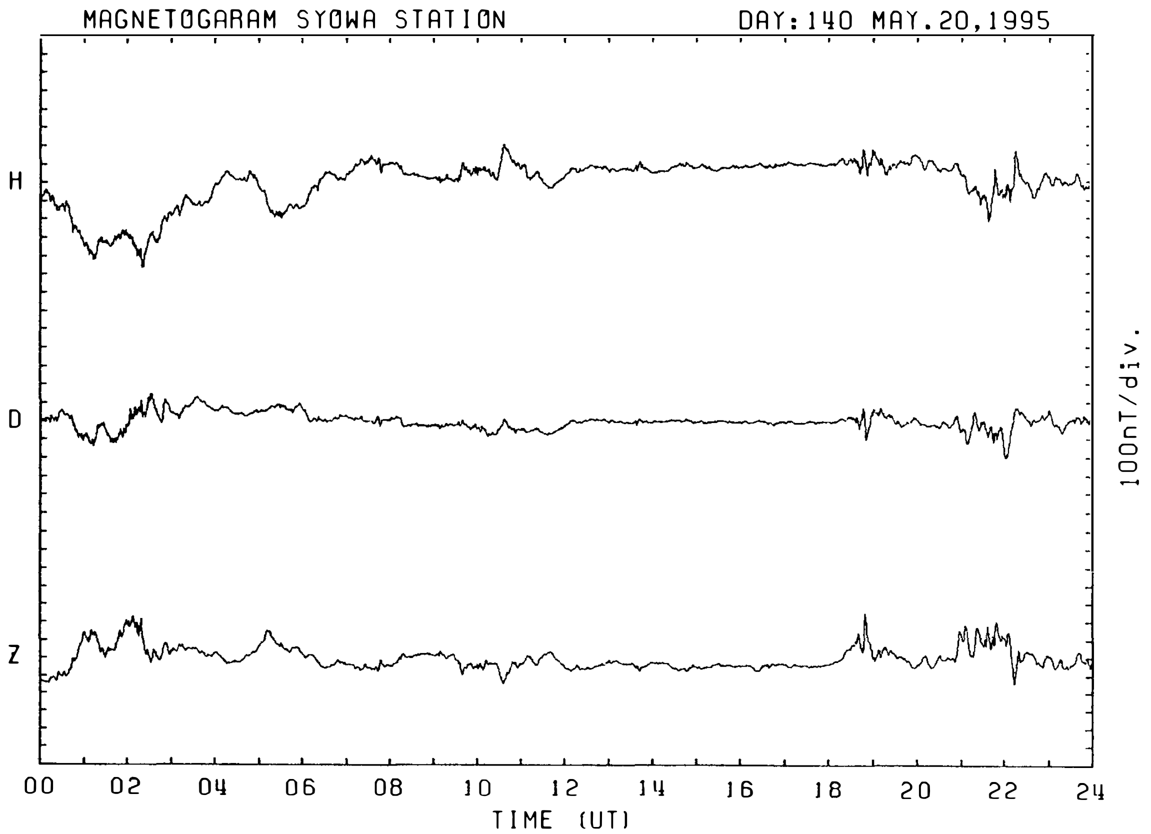
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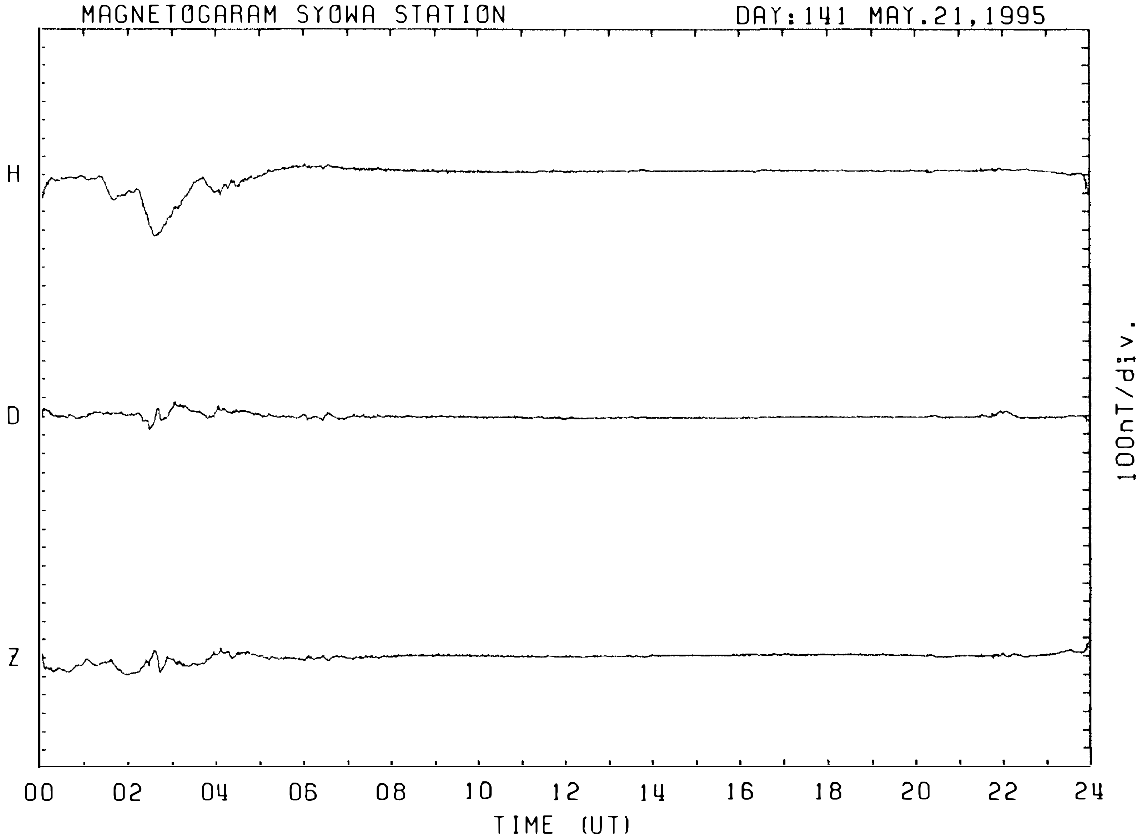

MAGNETOGARAM SYOWA STATION
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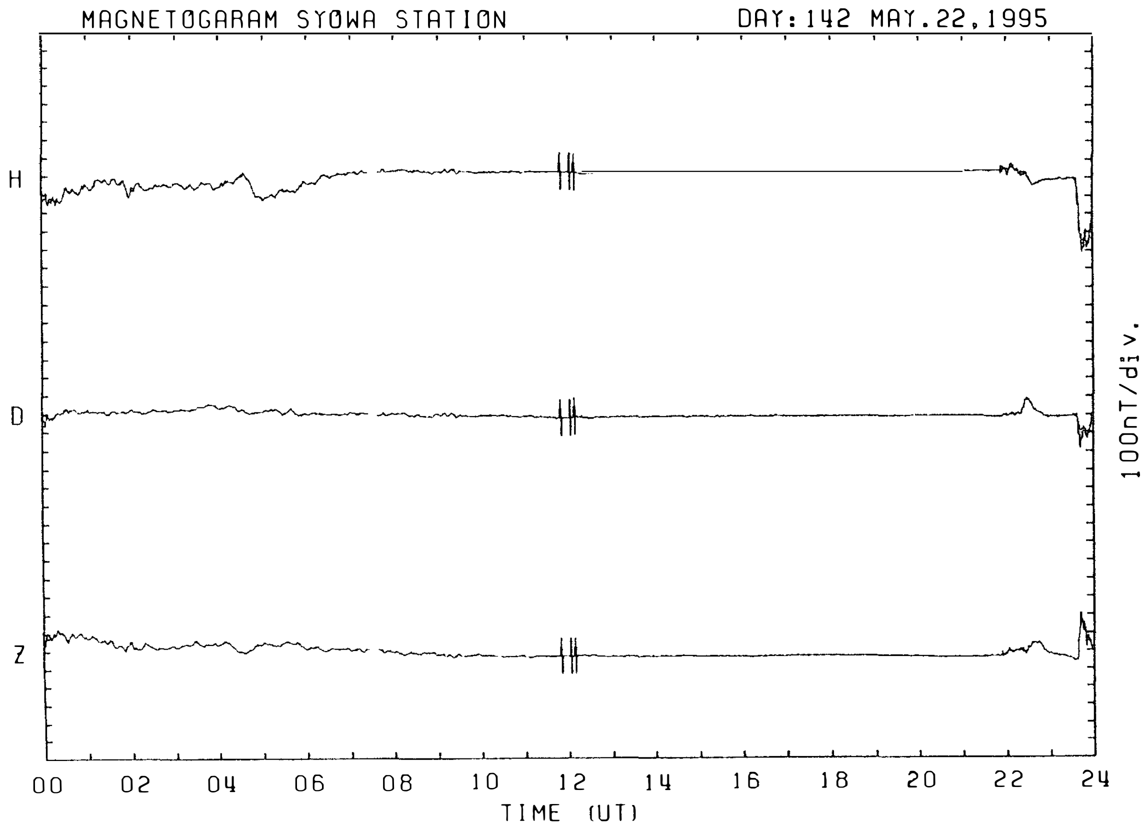
TIME (UT)



MAGNETOGARAM SYOWA STATION
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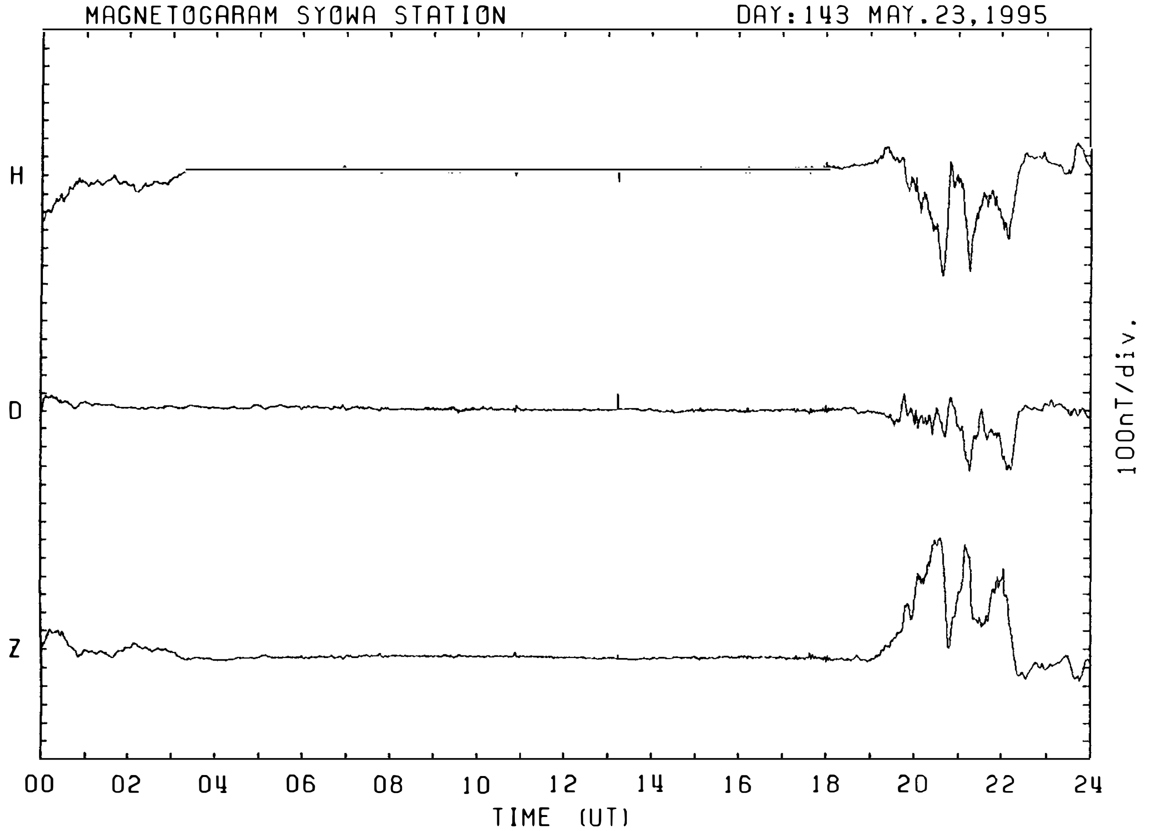
TIME (UT)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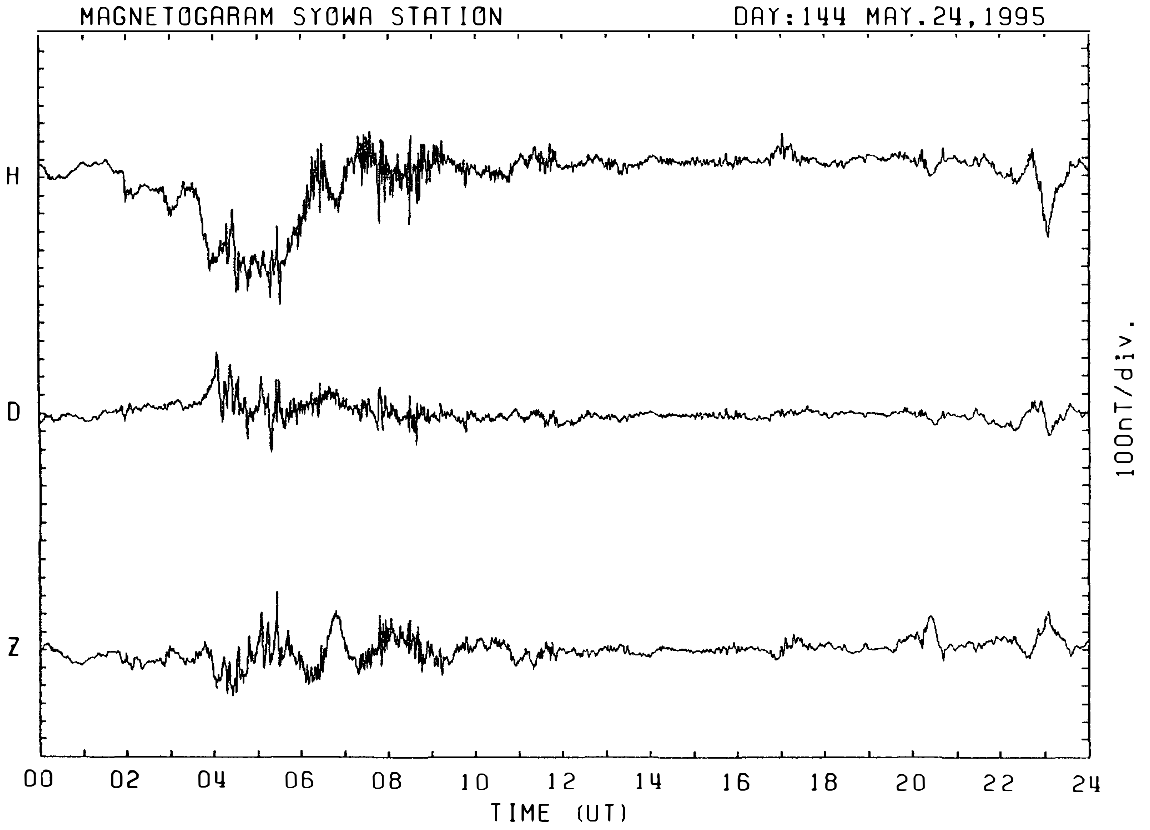
TIME (UT)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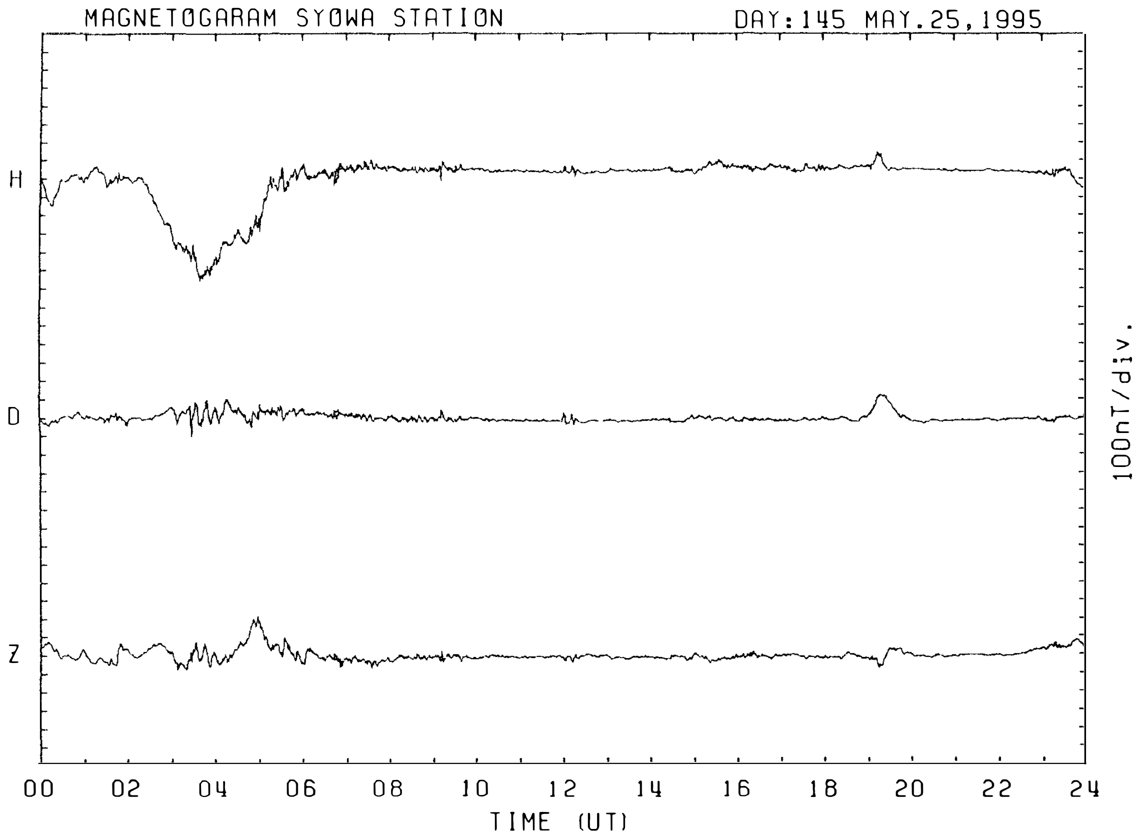
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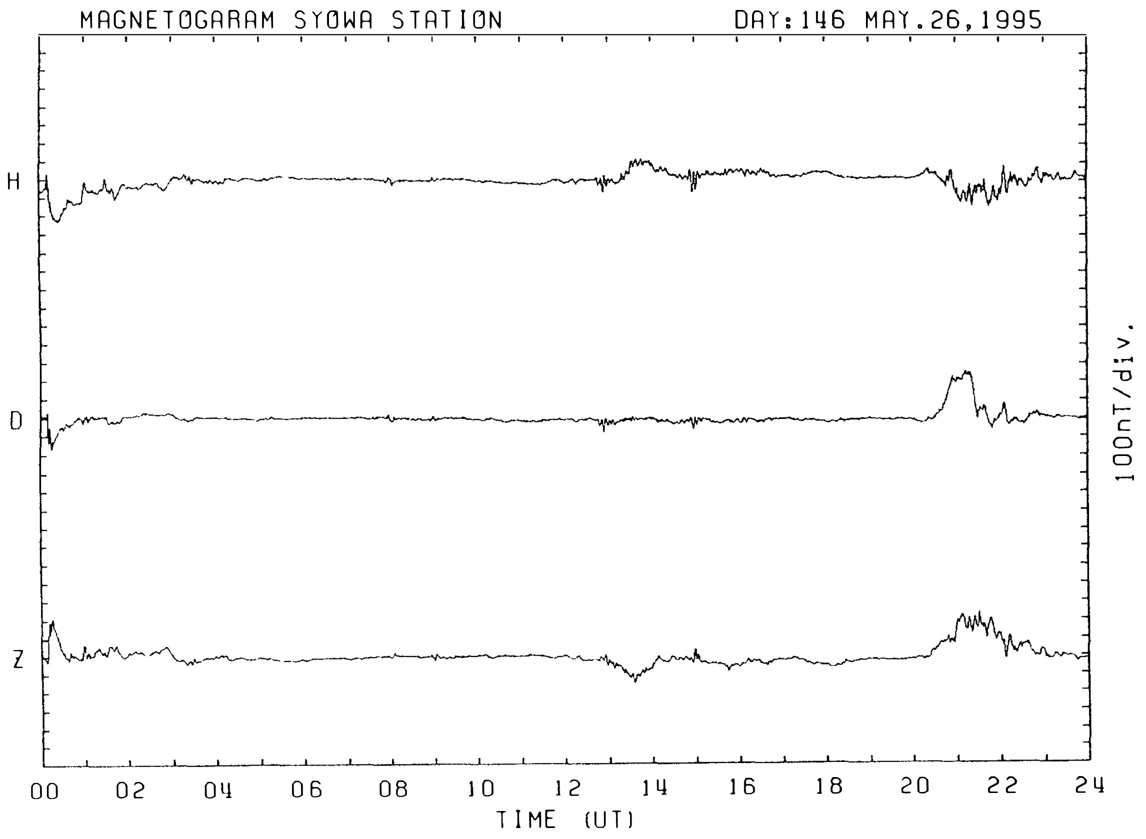
TIME (UT)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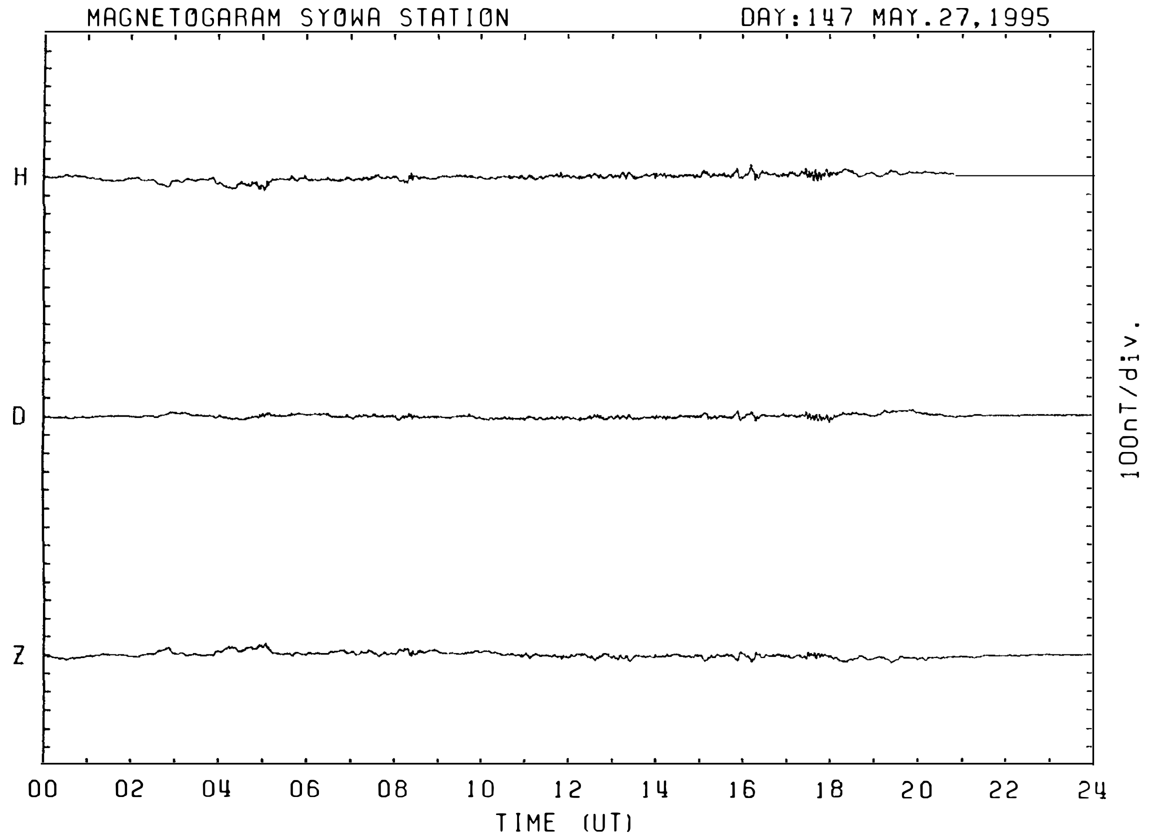
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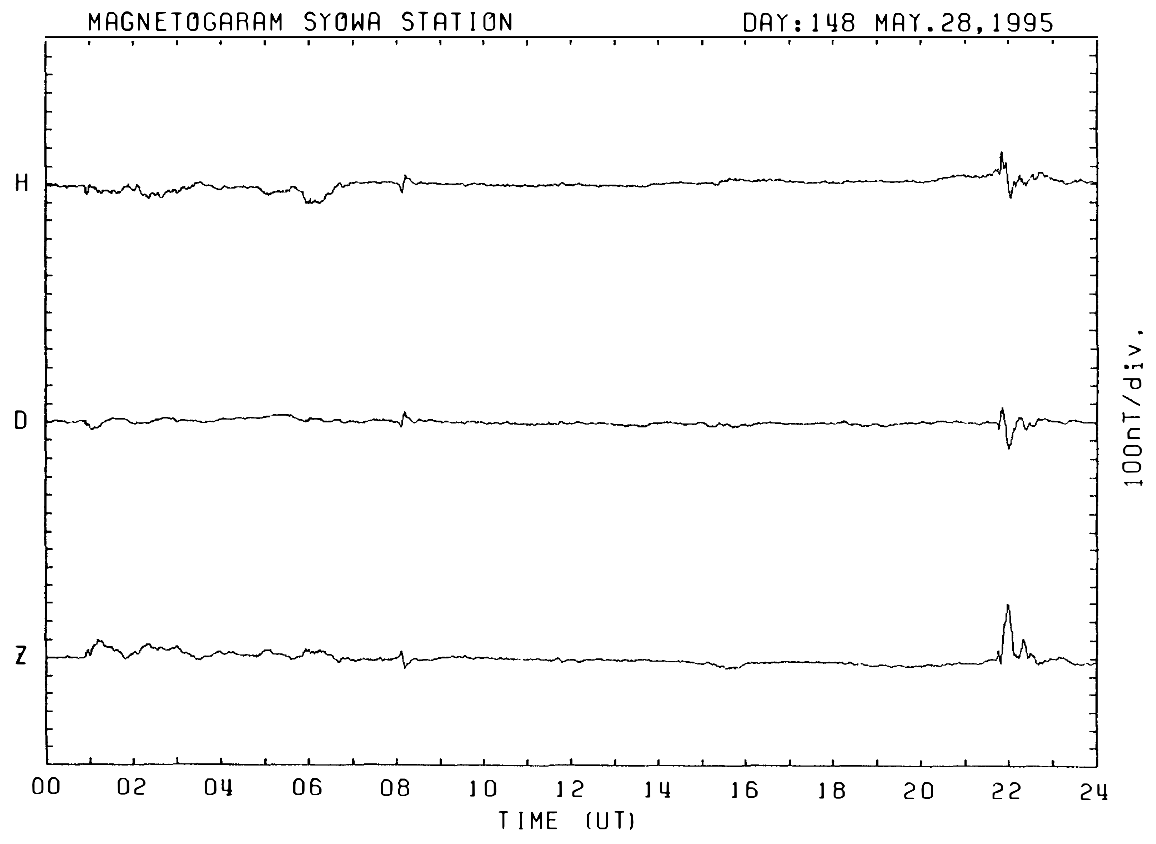
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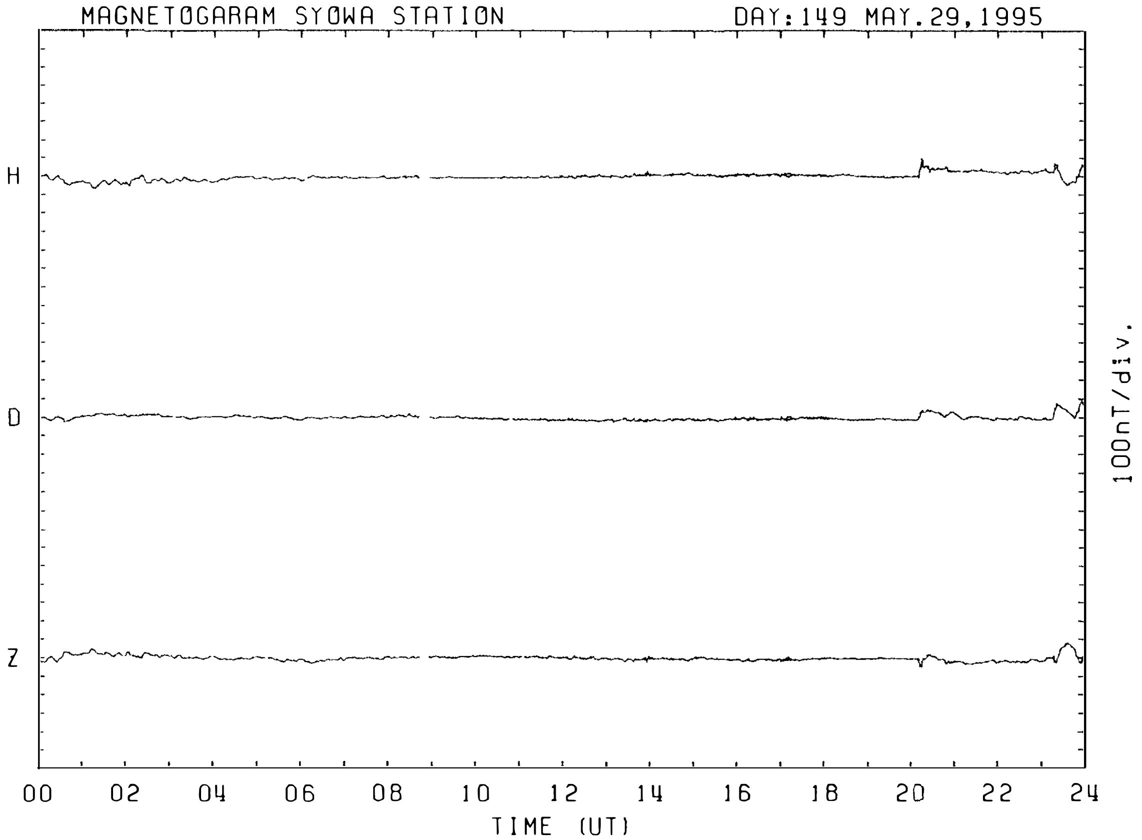
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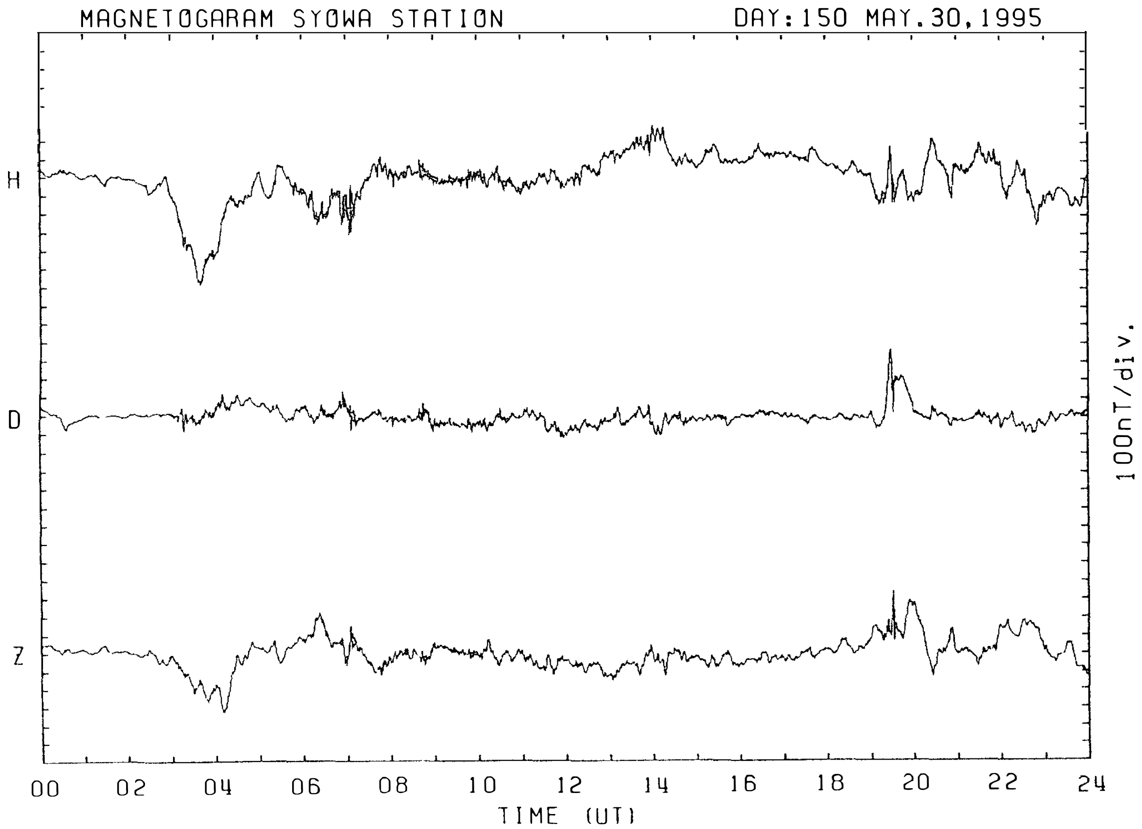
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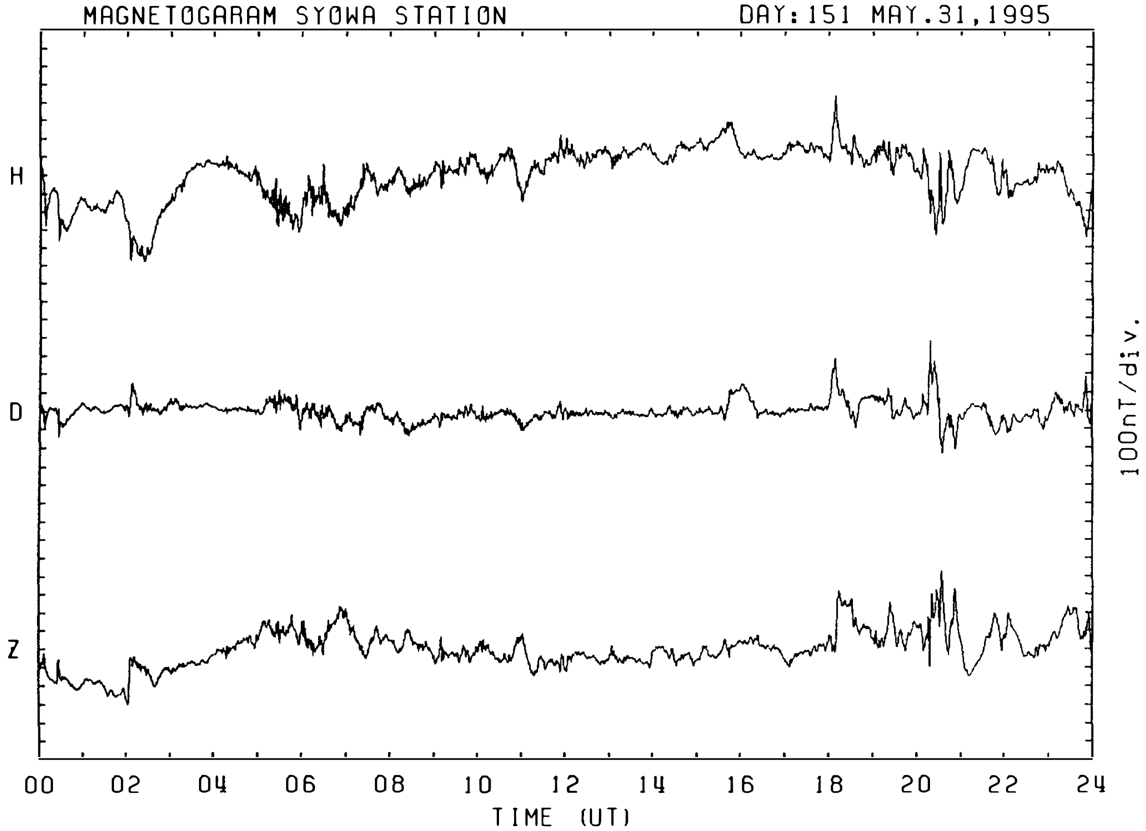
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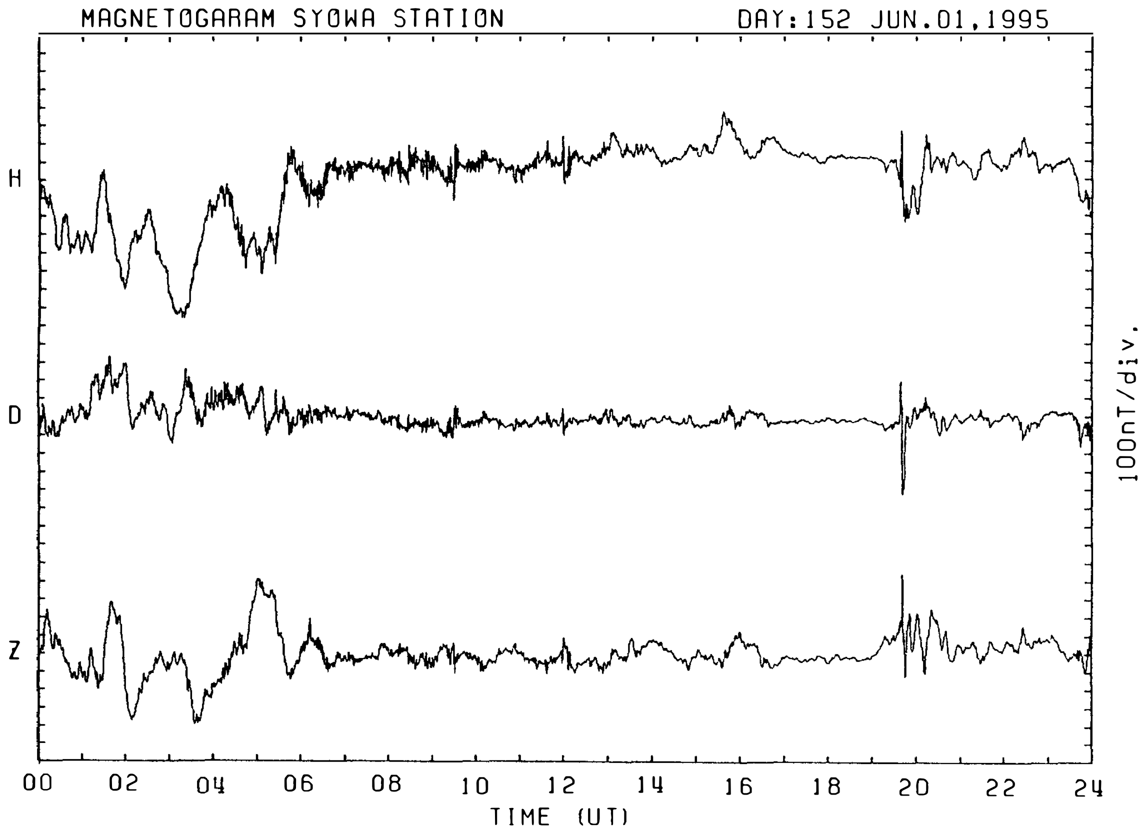
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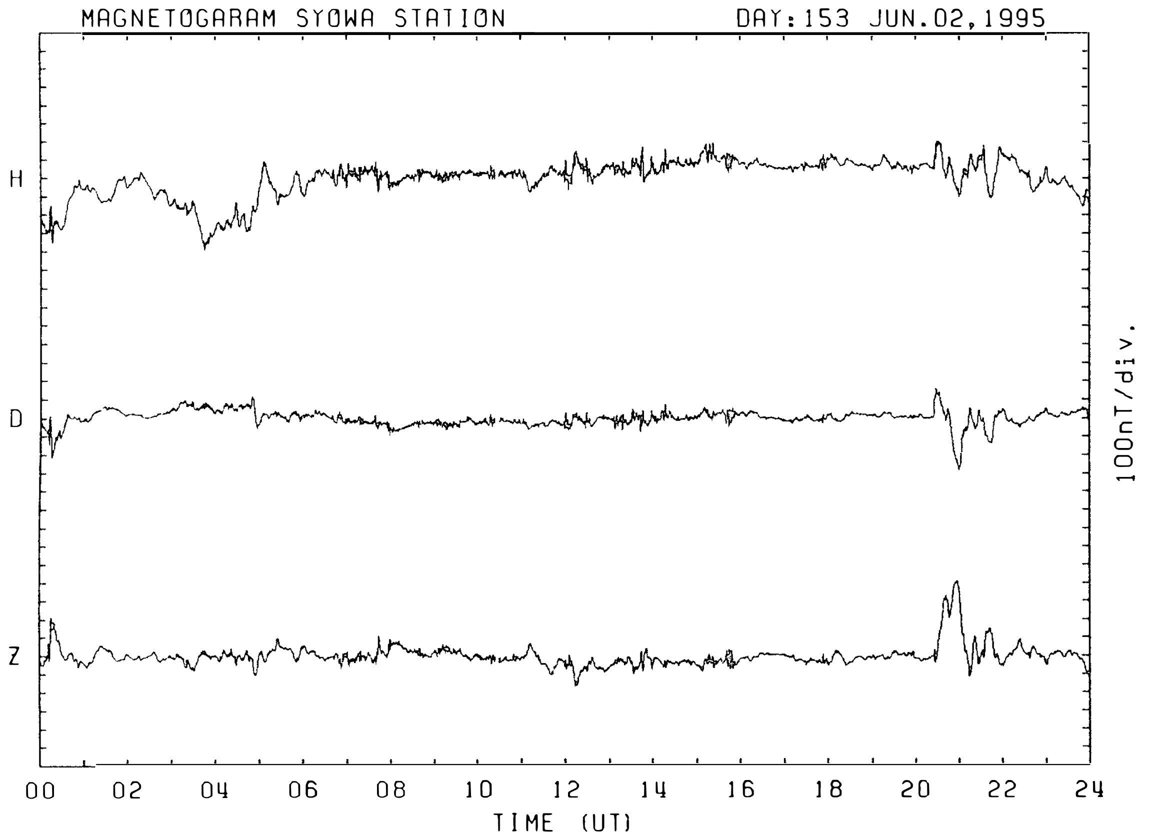
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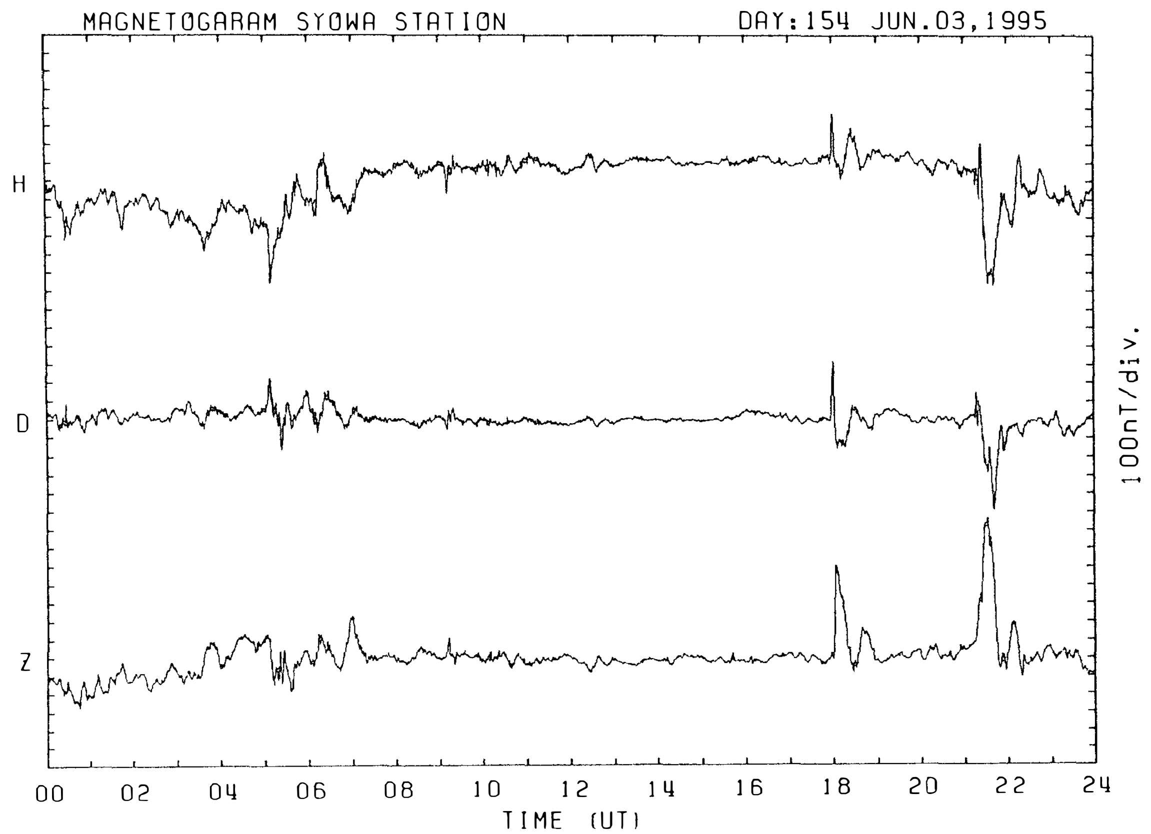
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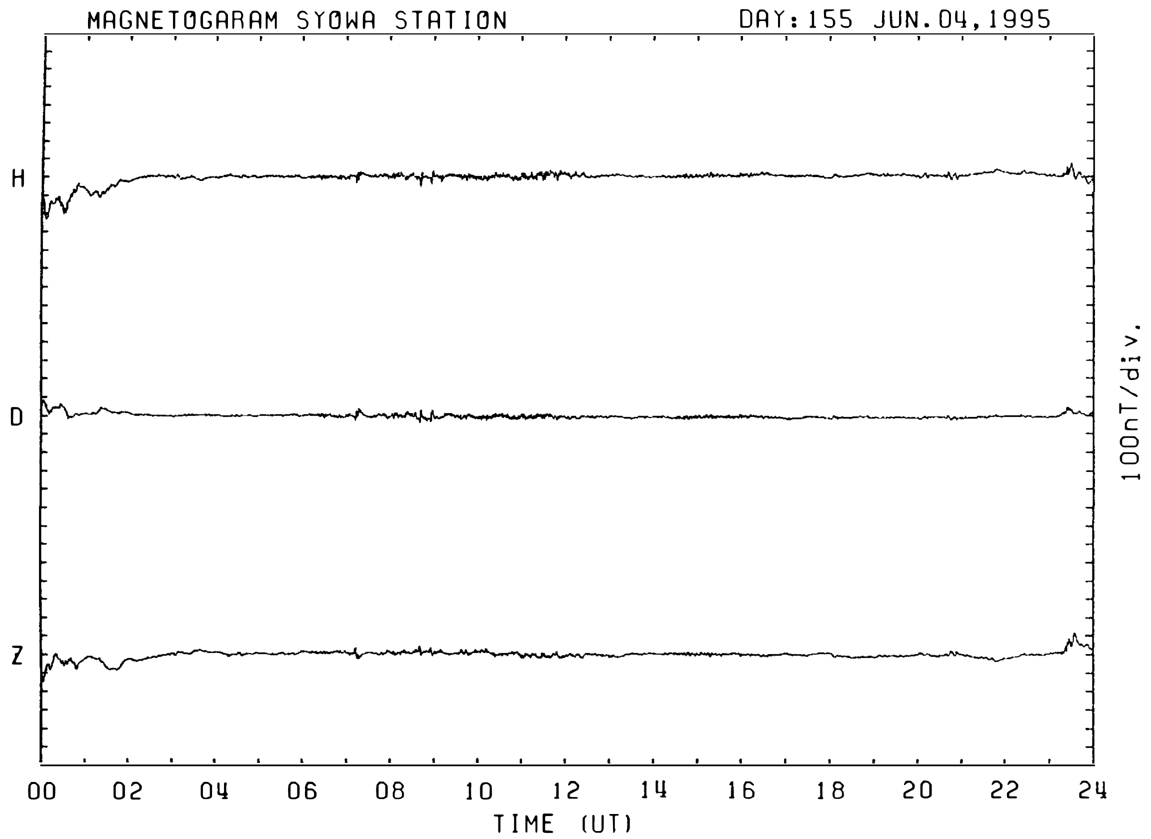
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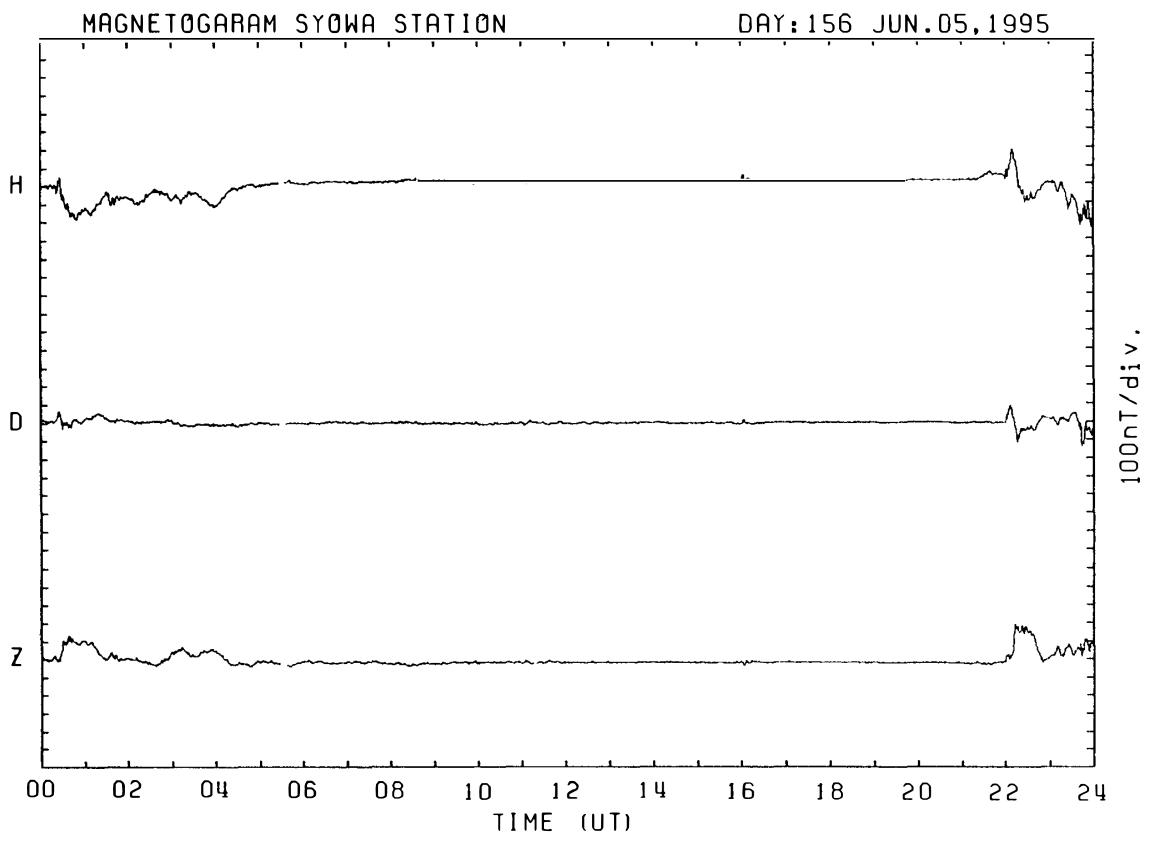
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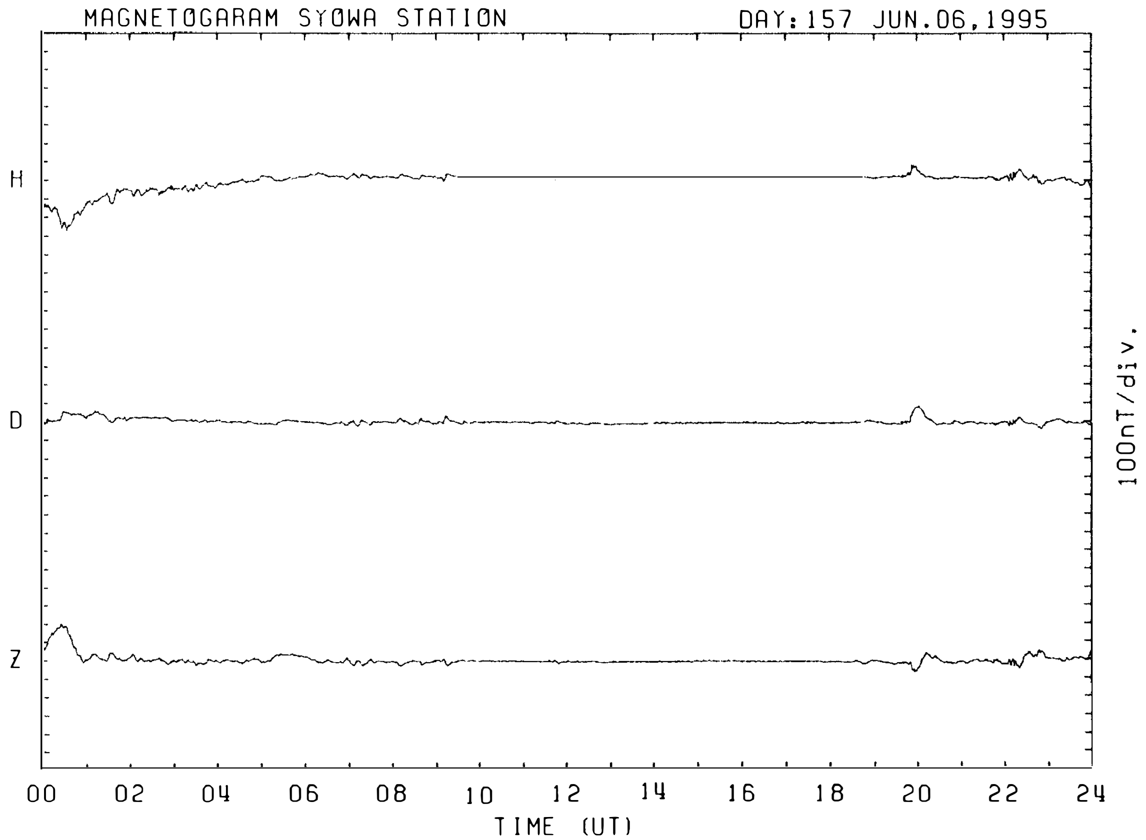
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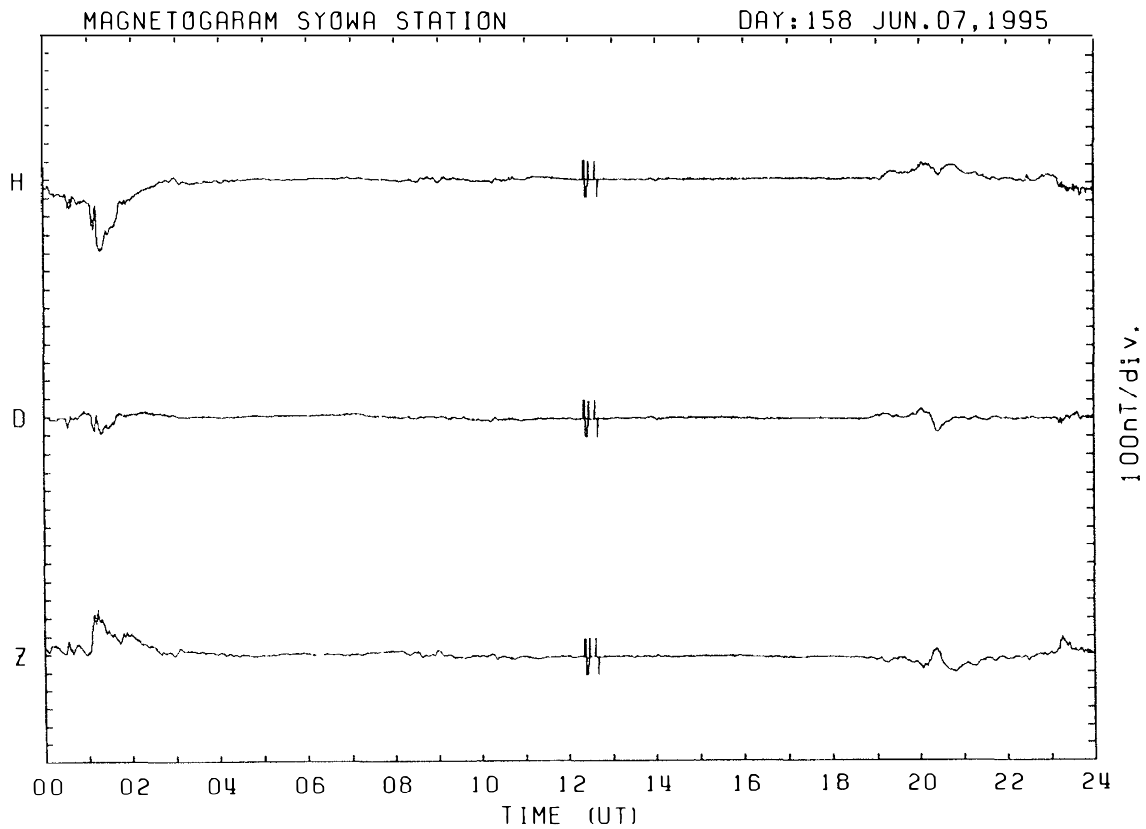
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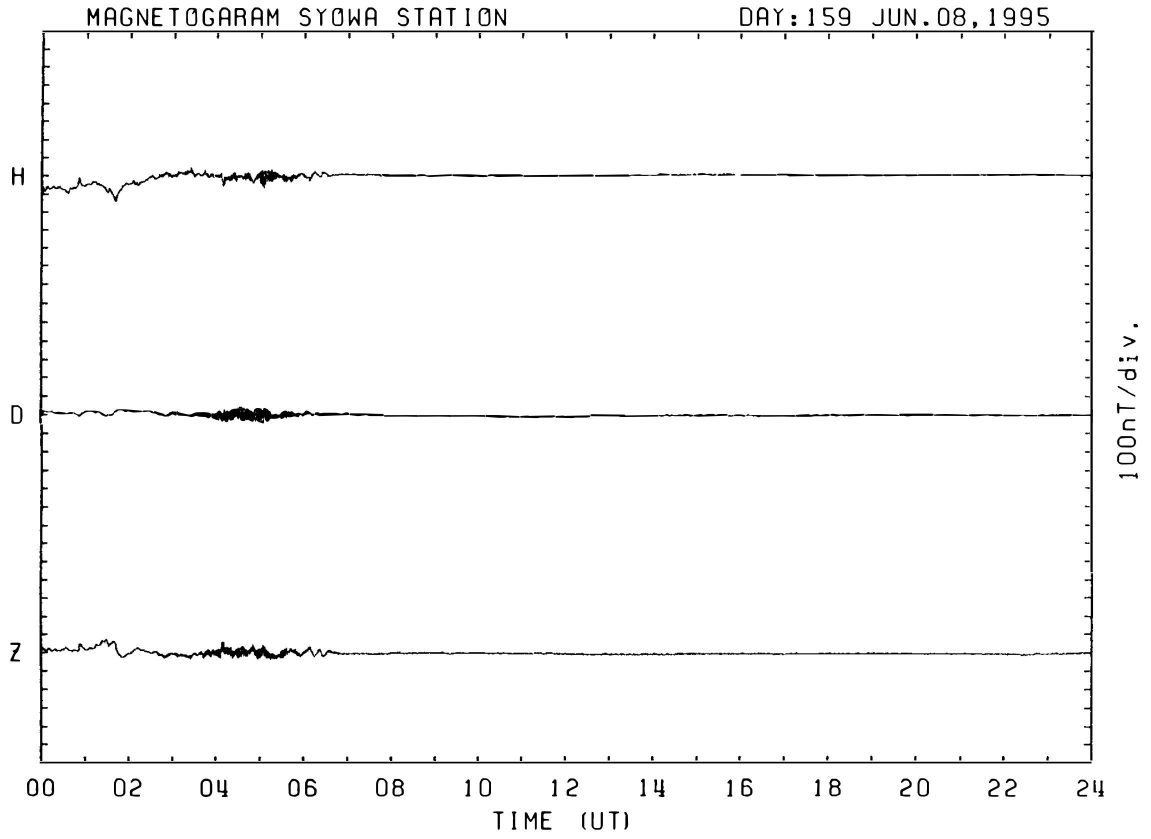
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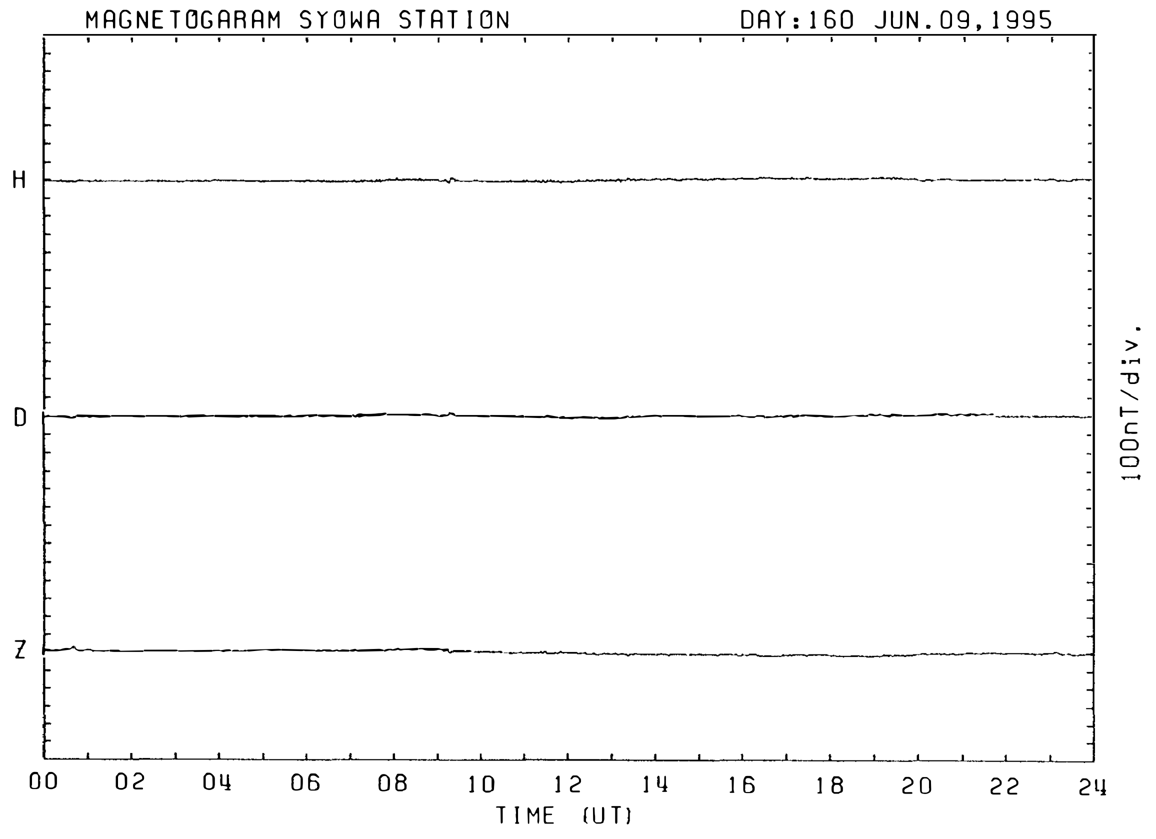
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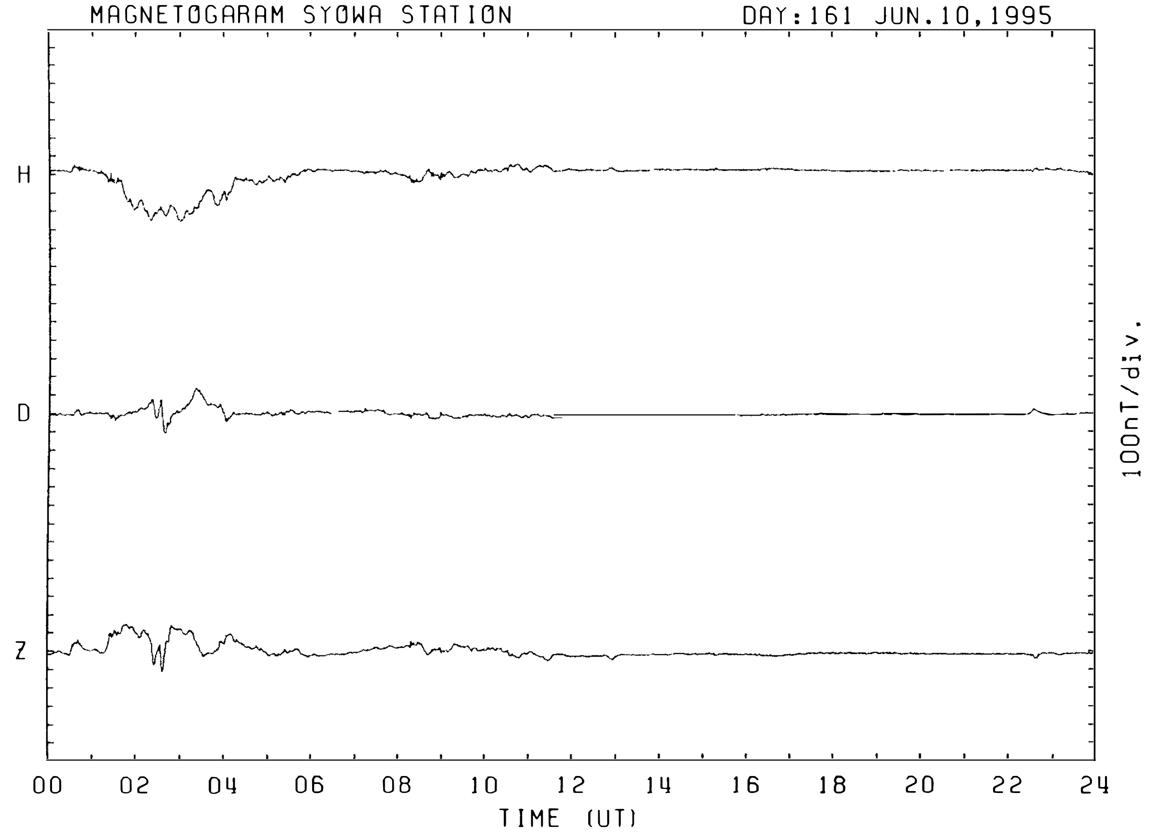
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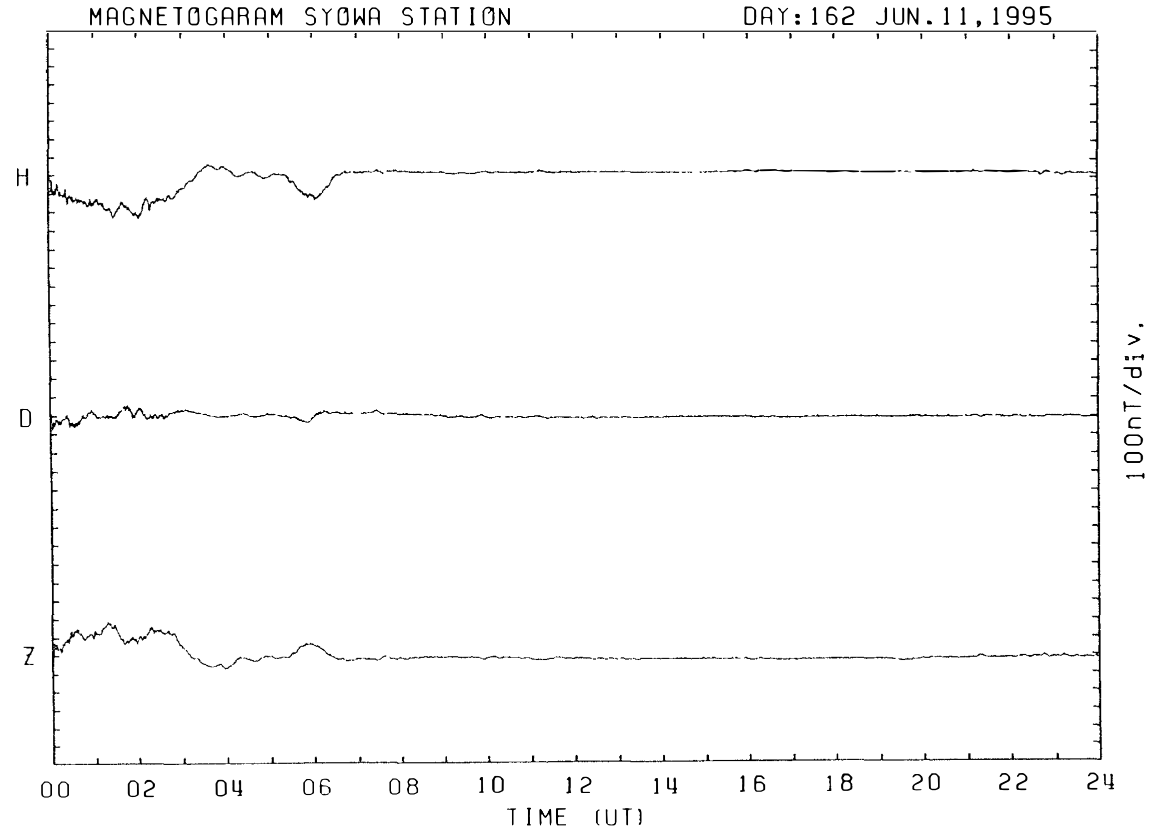
TIME (UT)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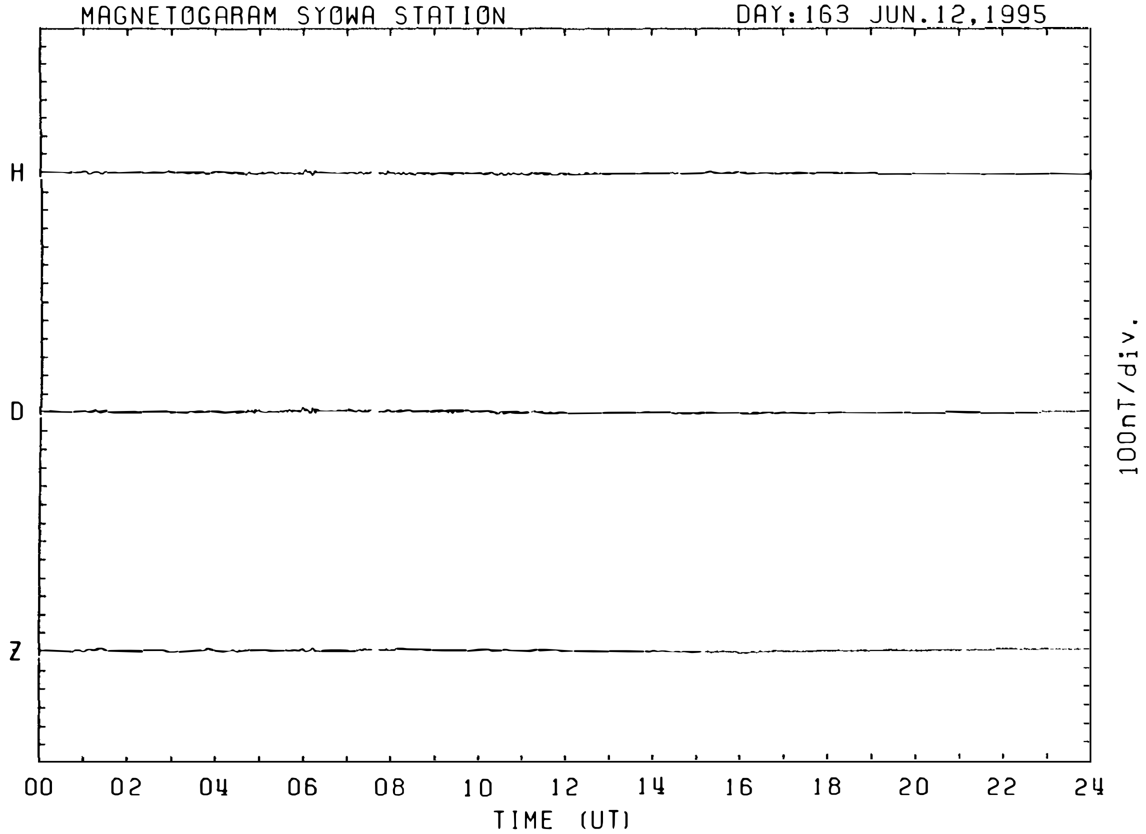
TIME (UT)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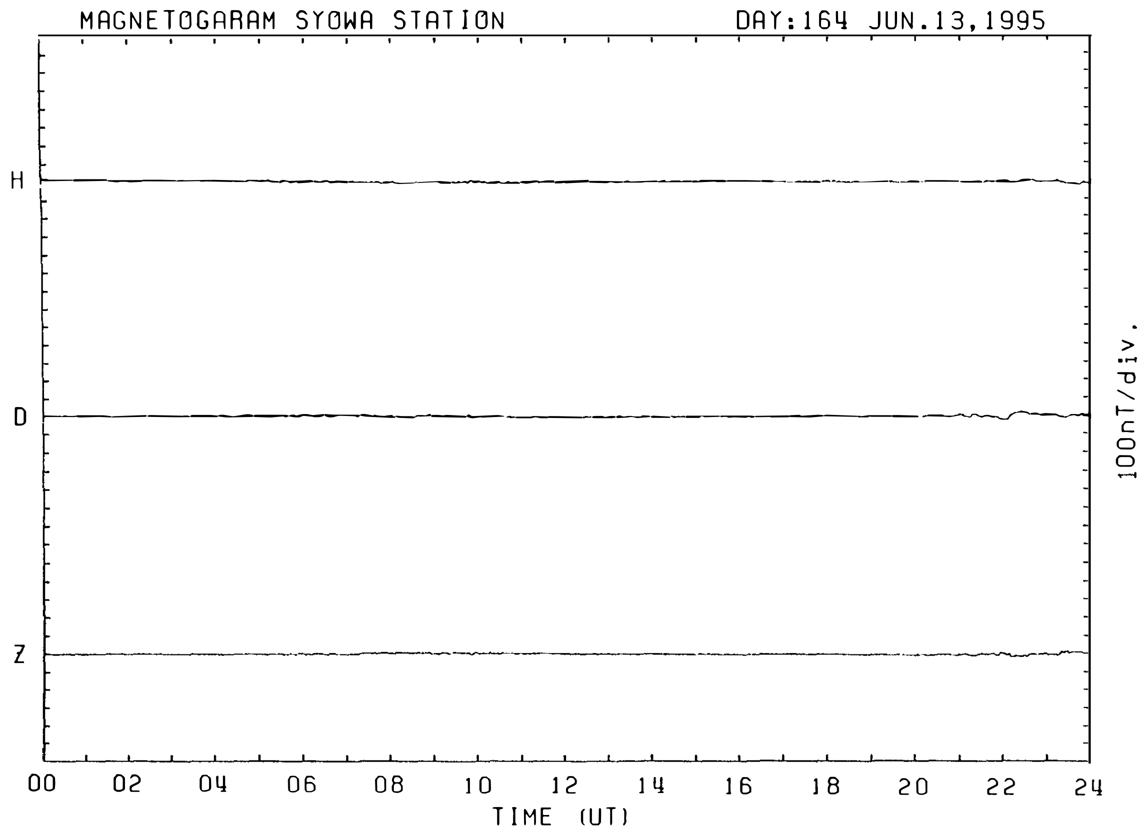
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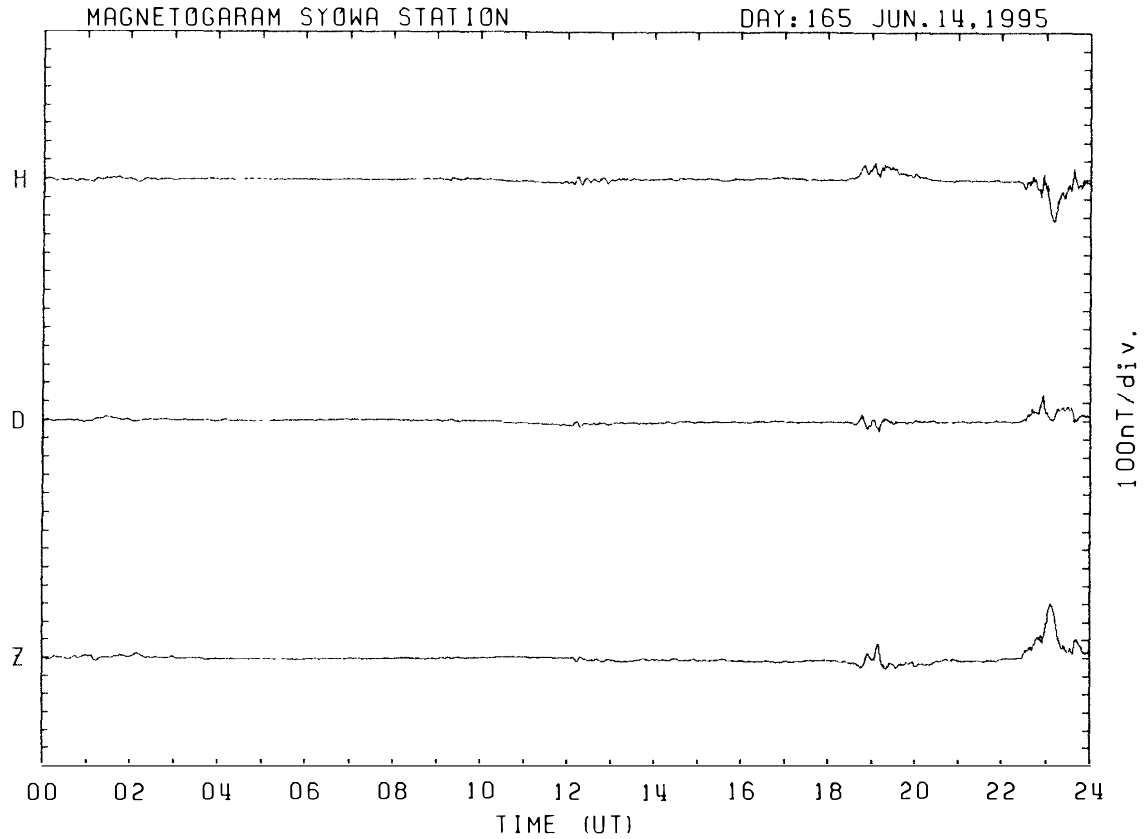
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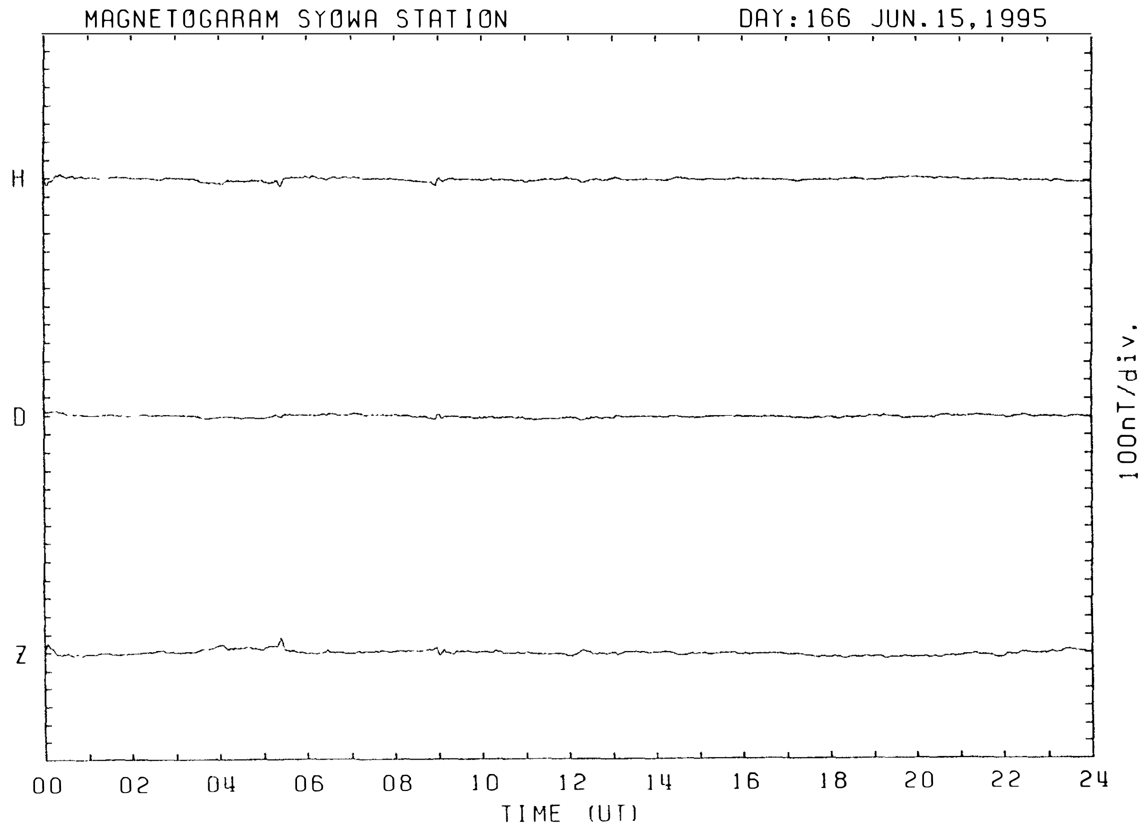
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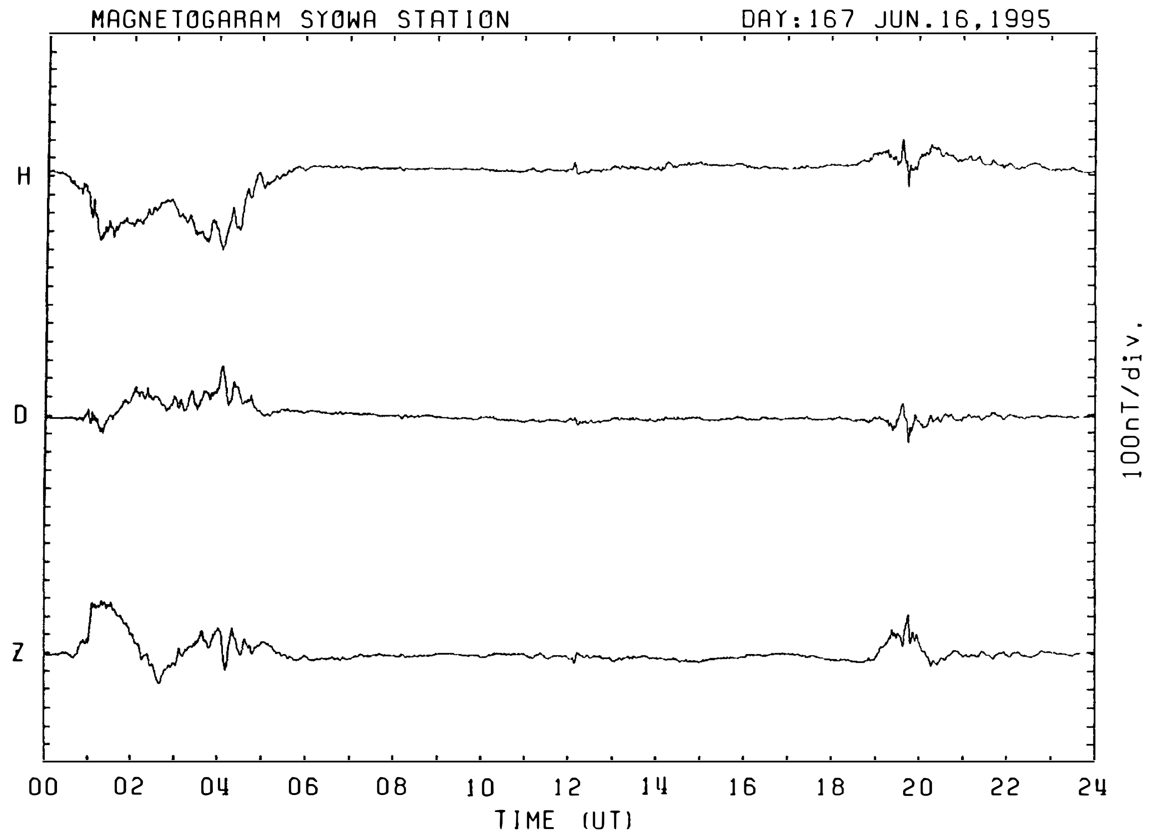
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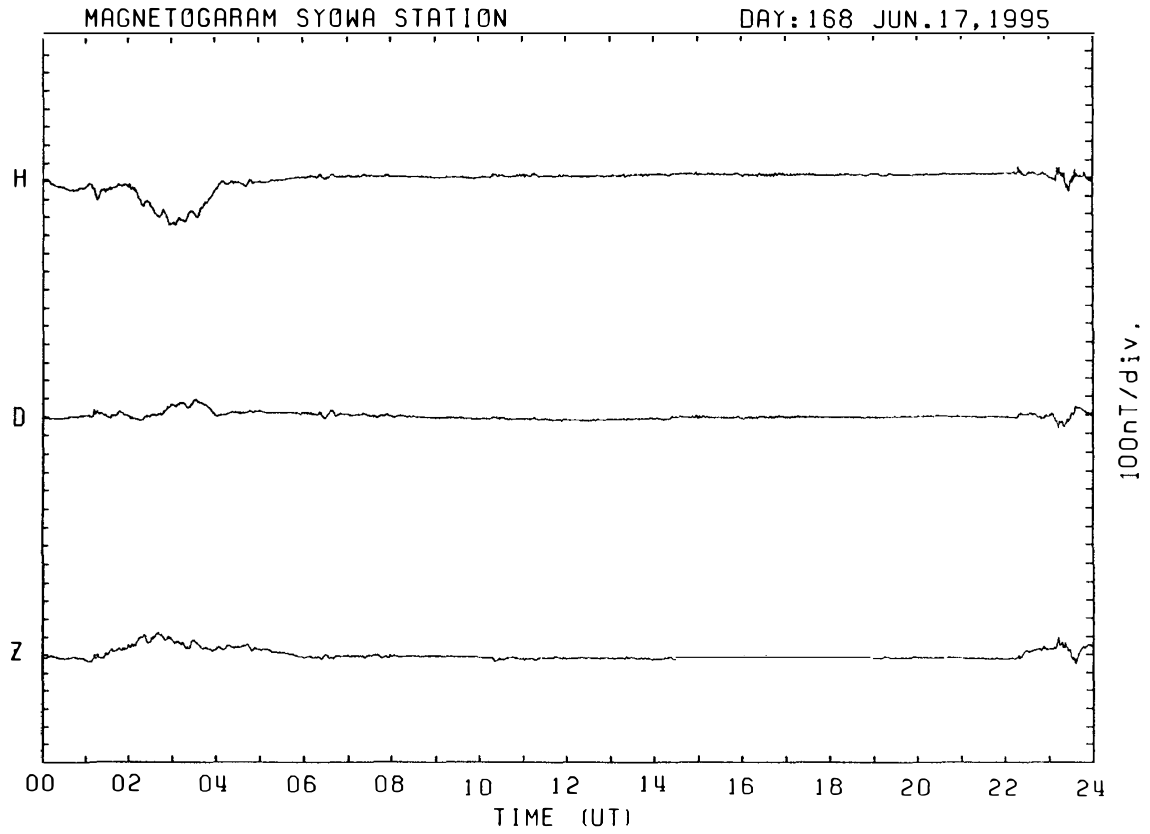
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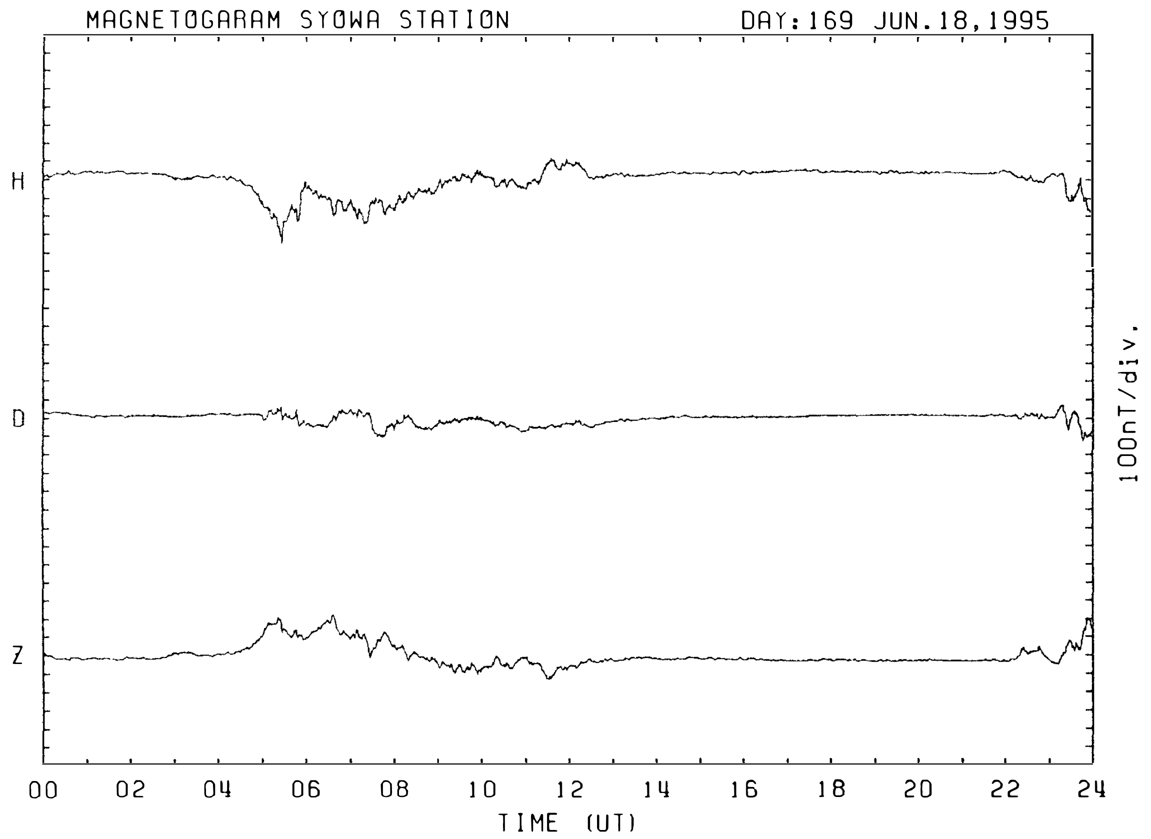
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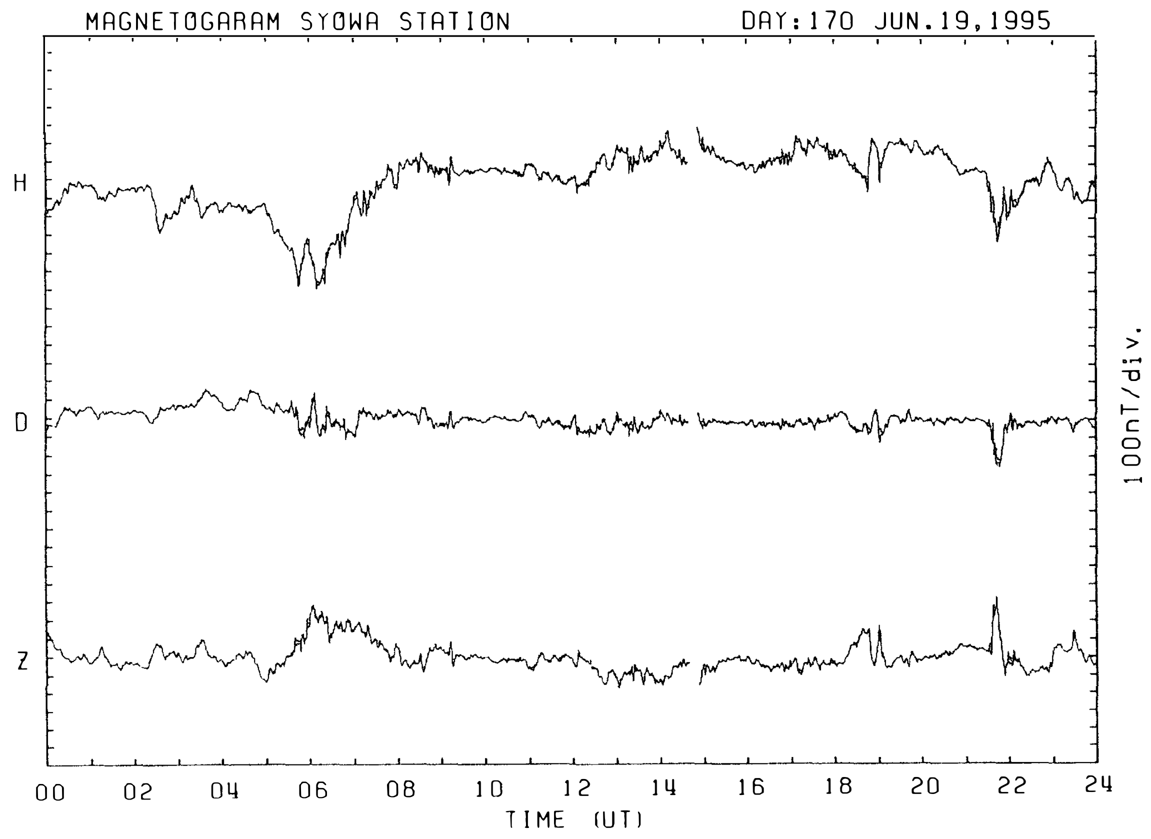
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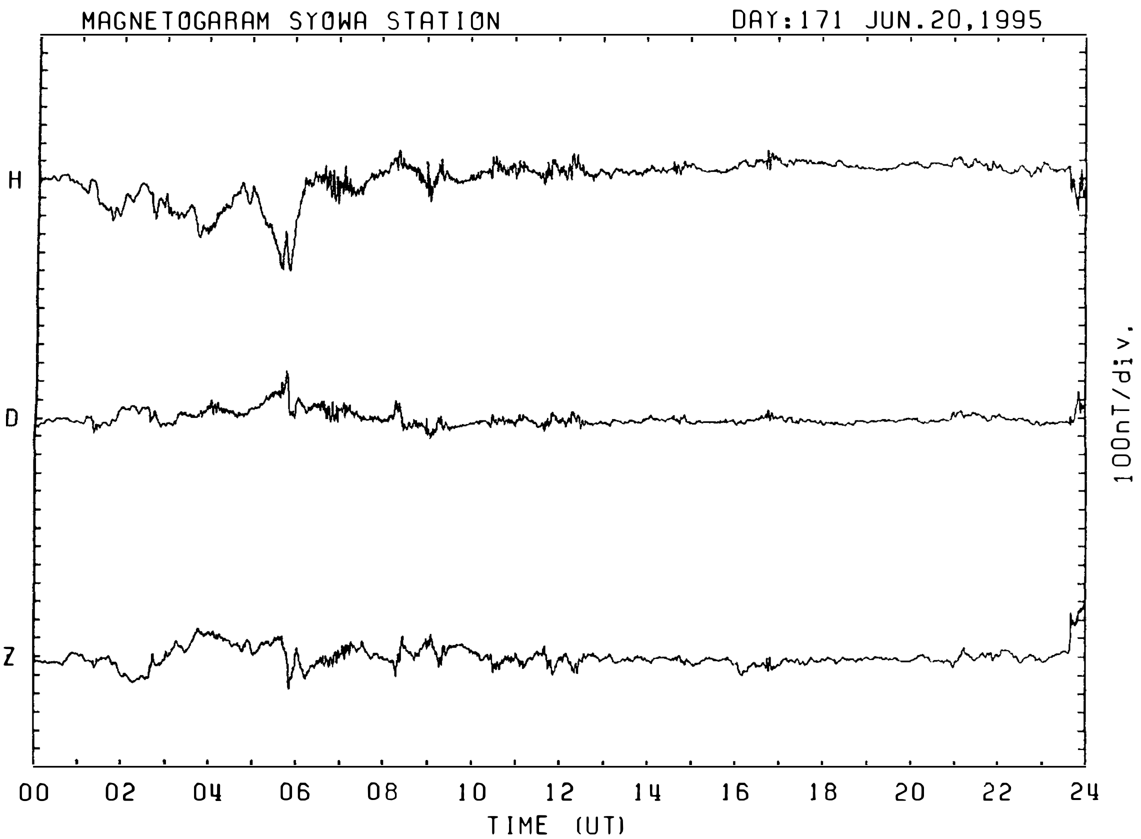
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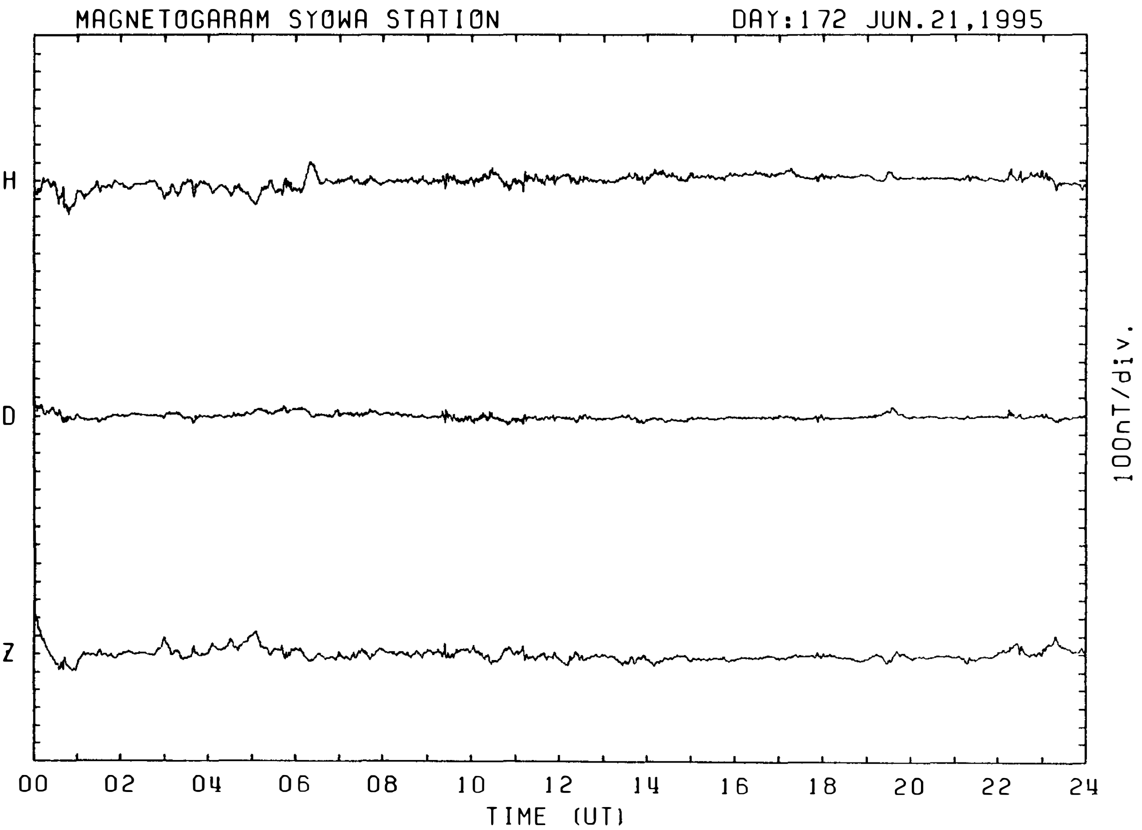
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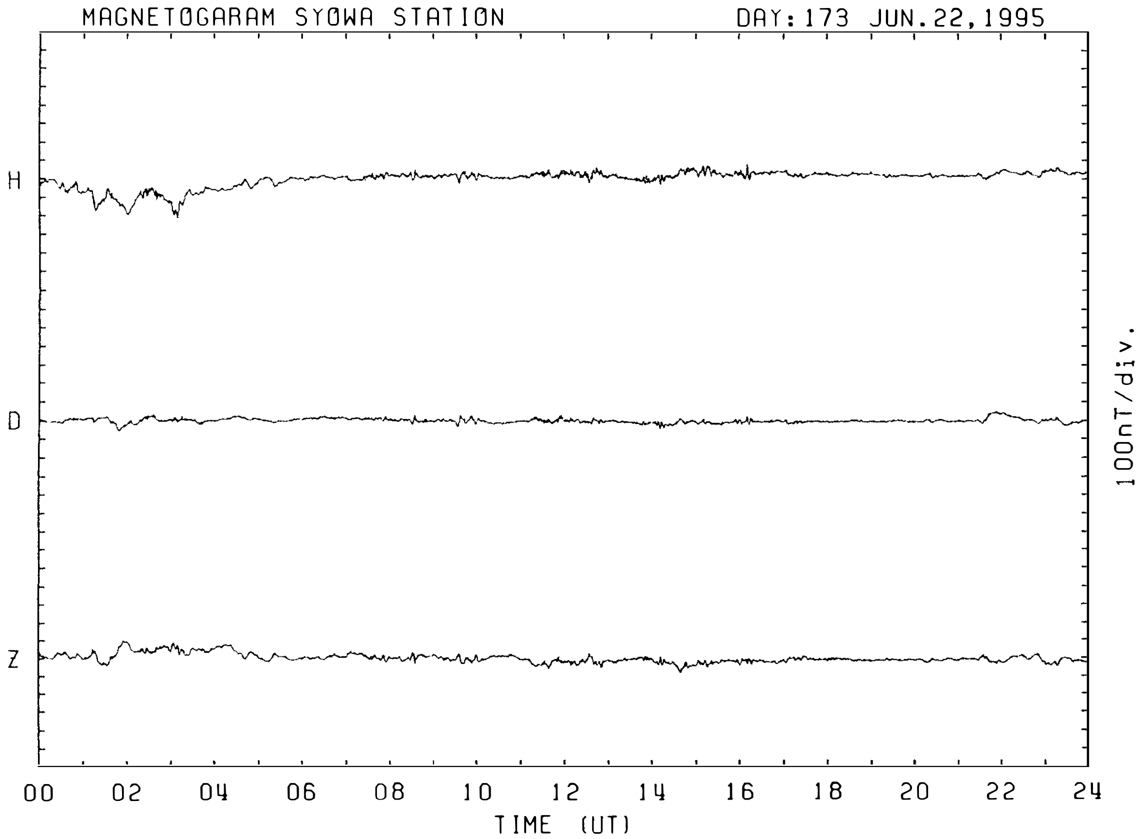
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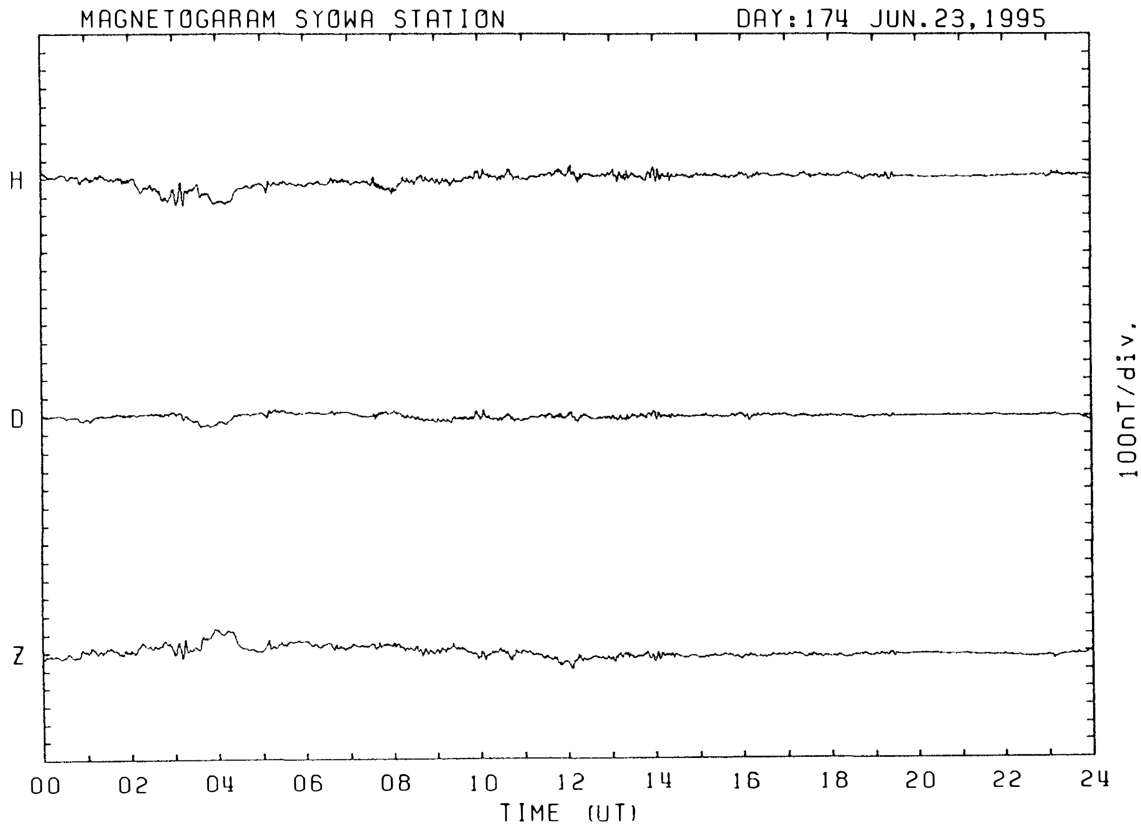
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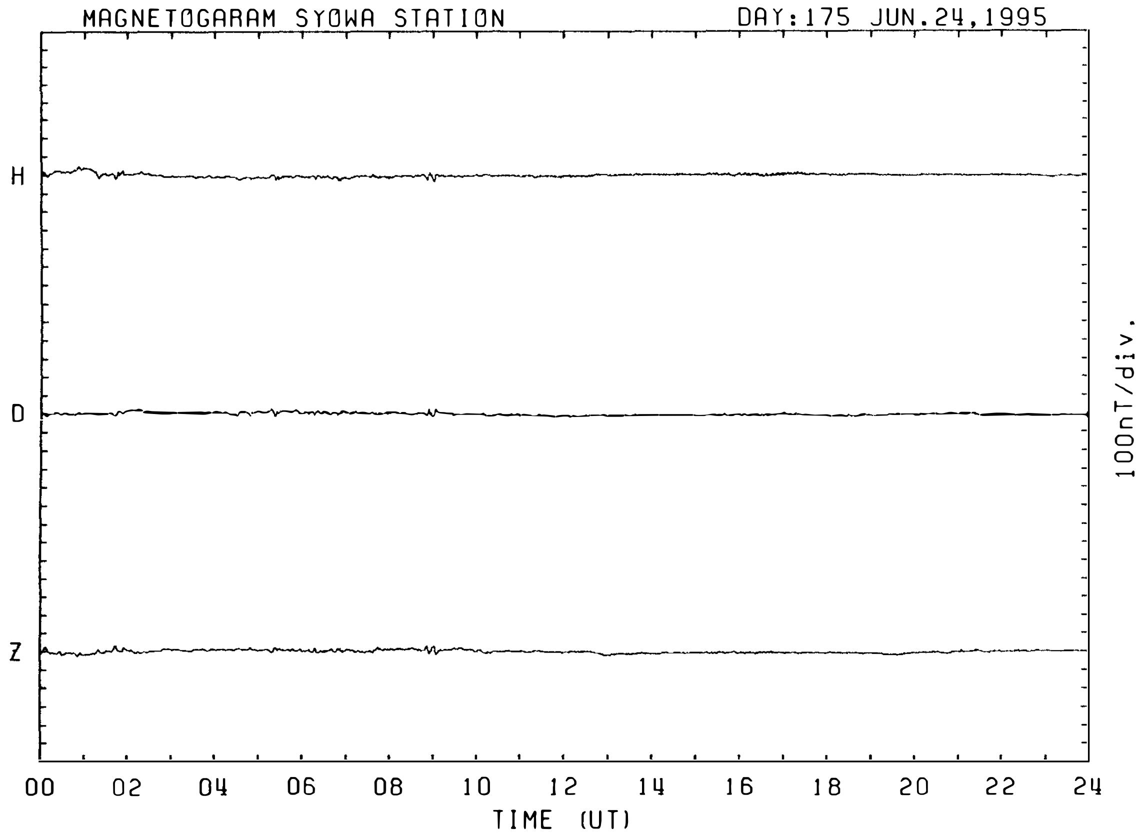
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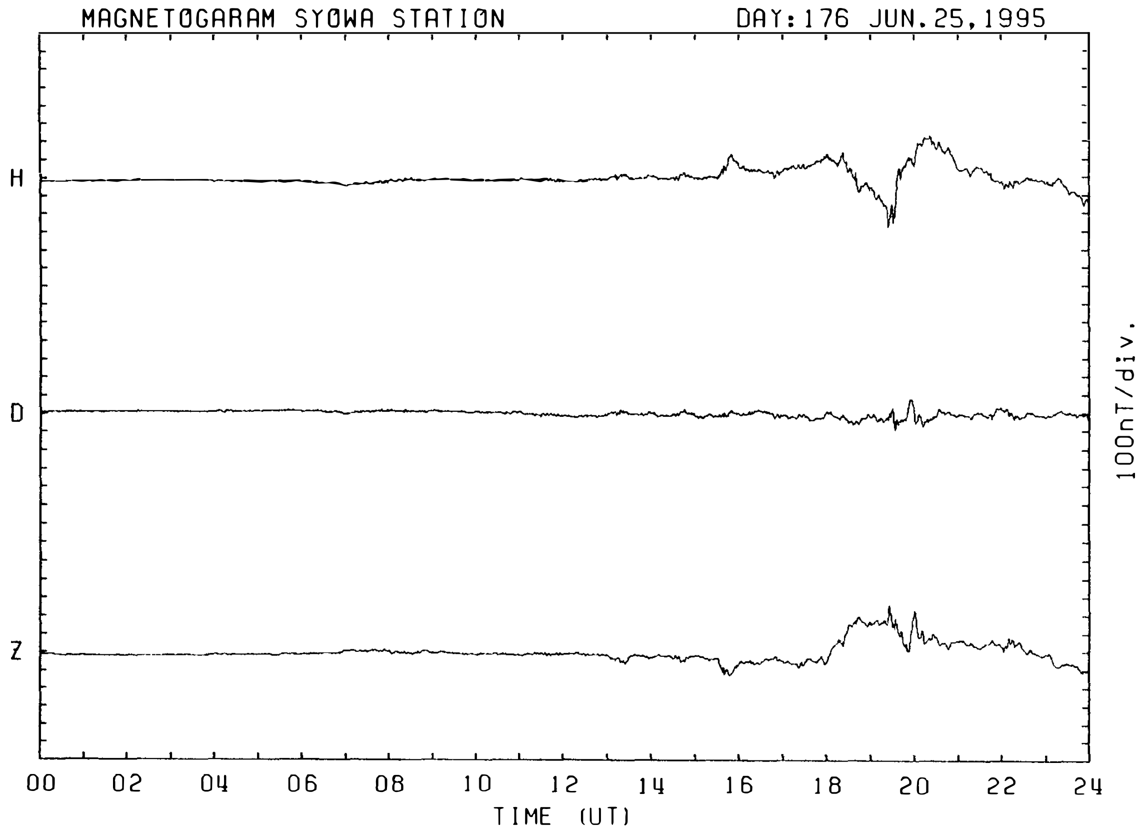
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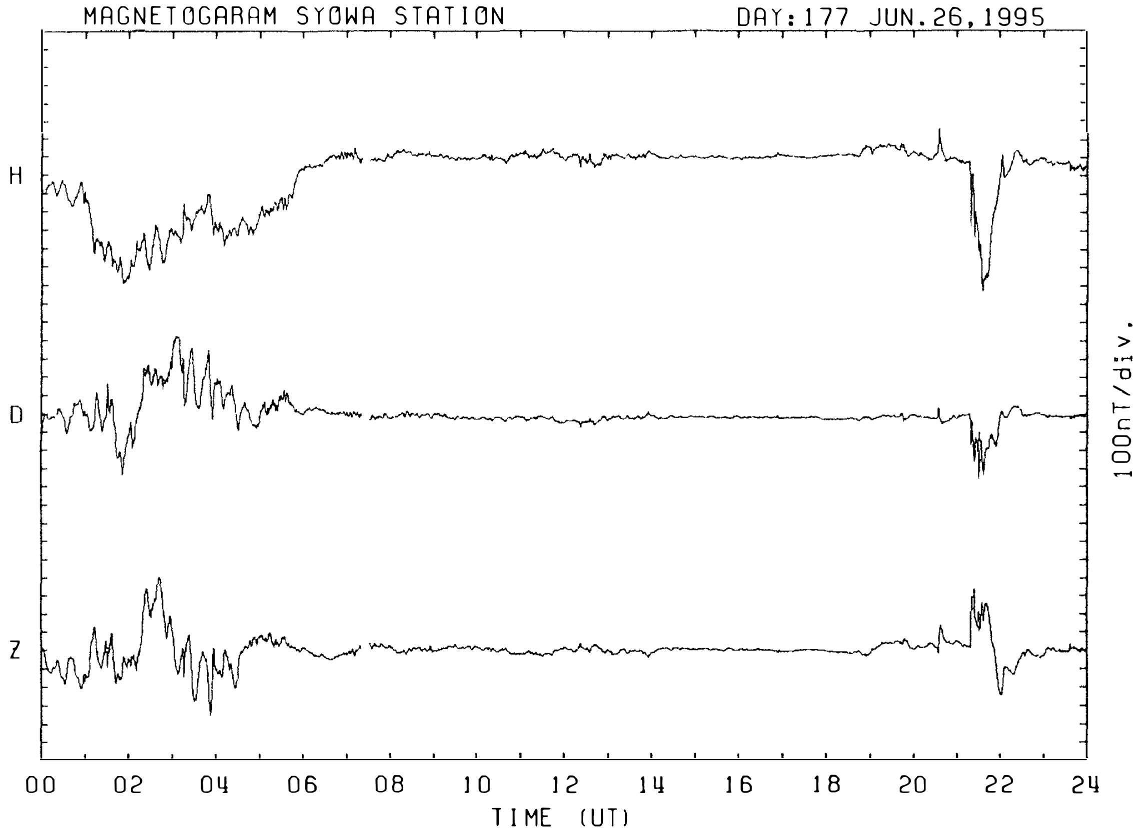
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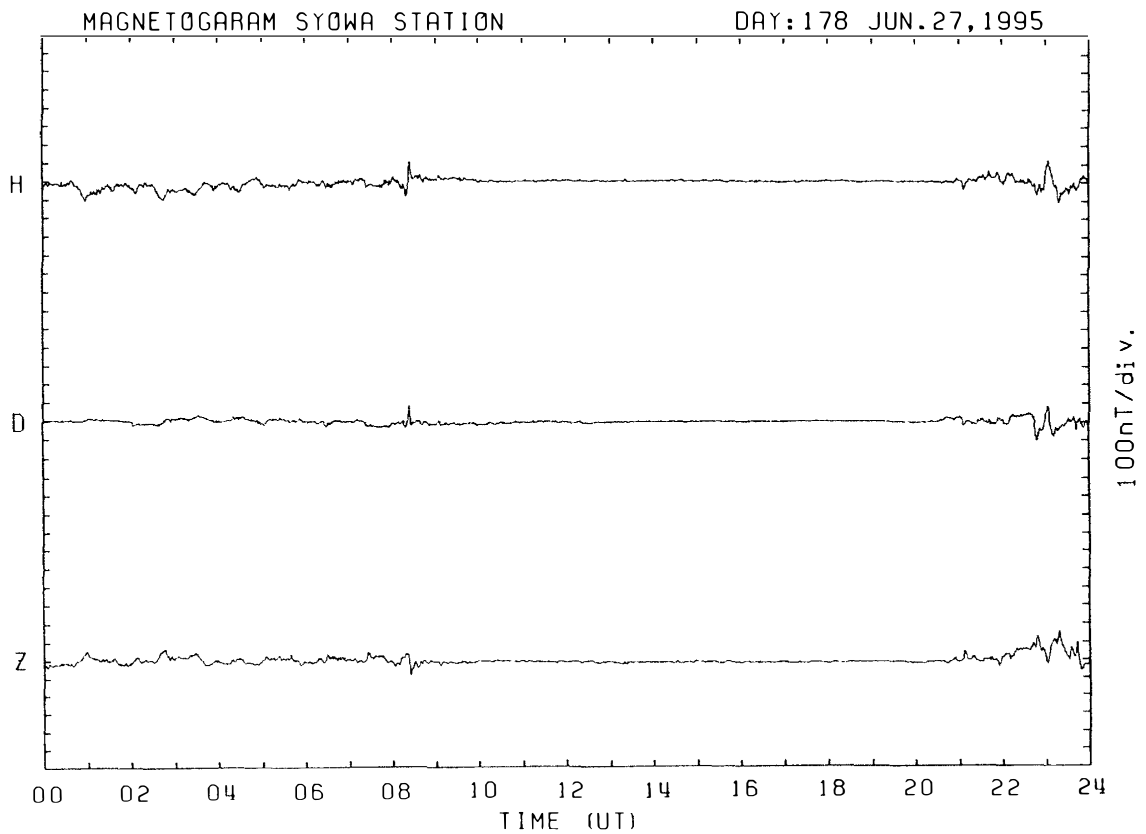
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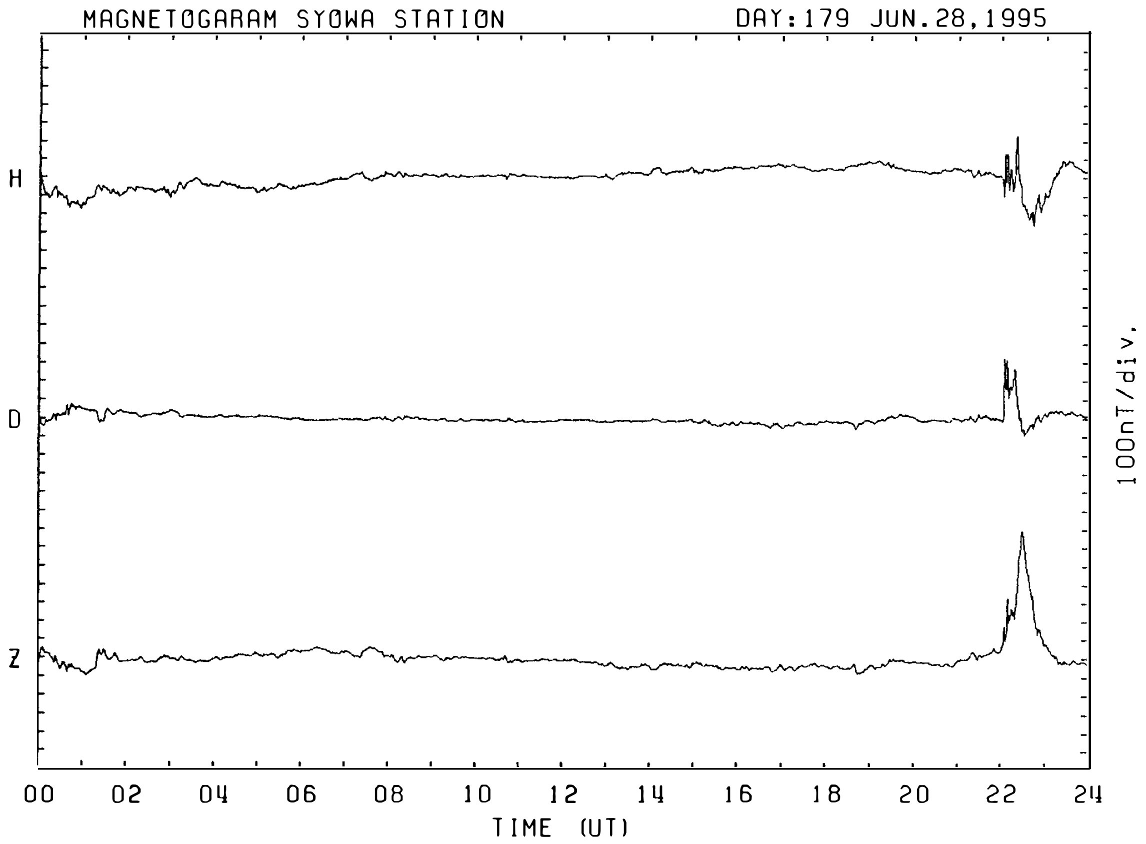
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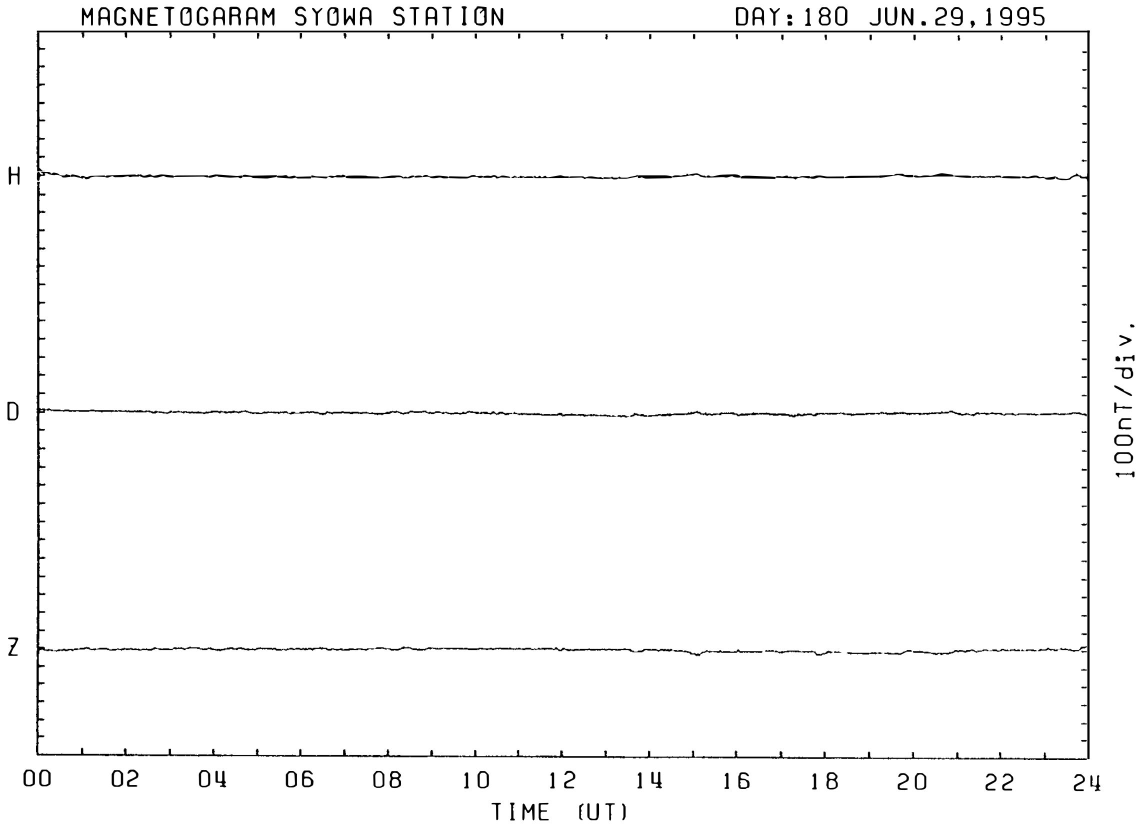
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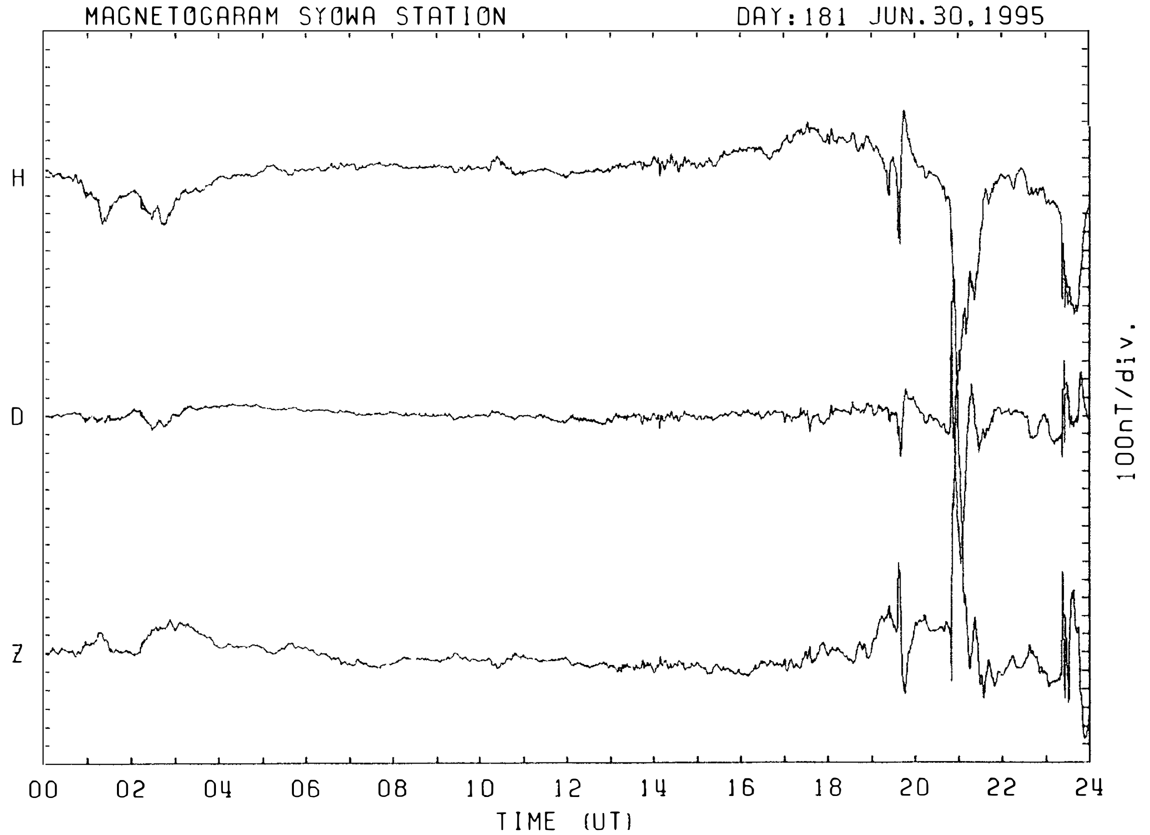
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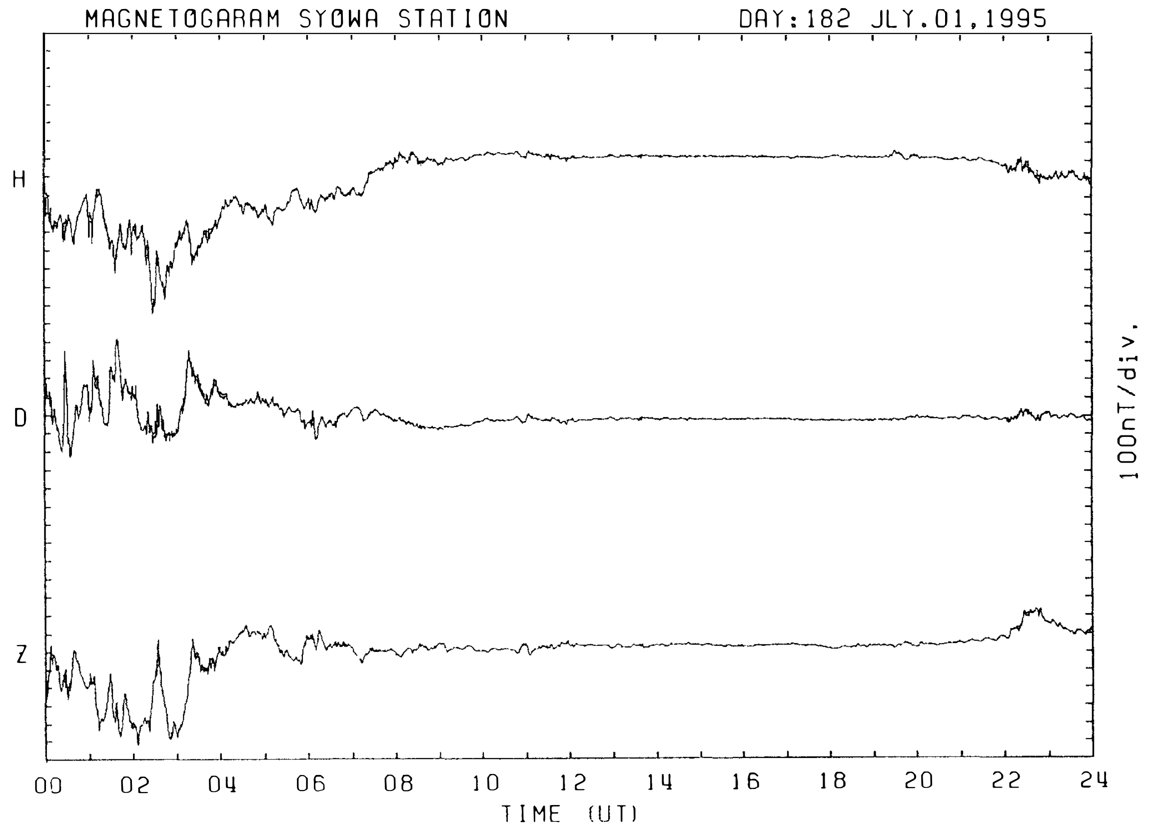
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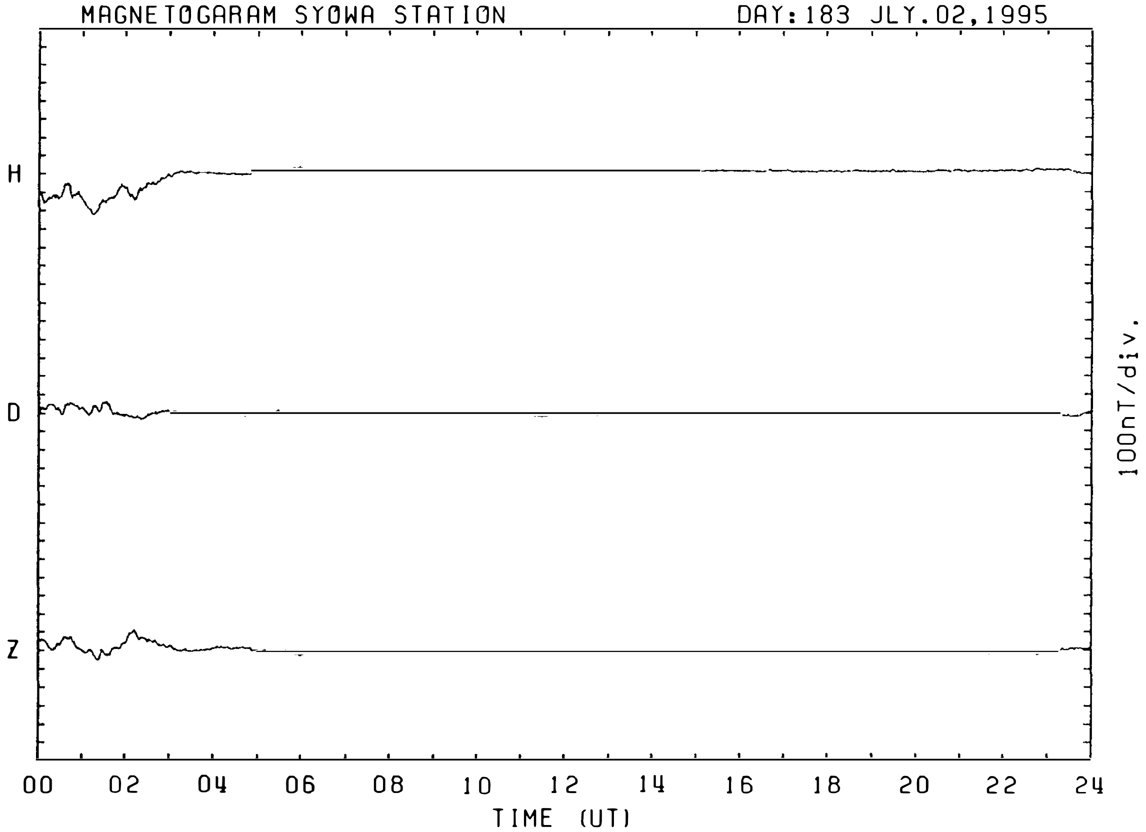

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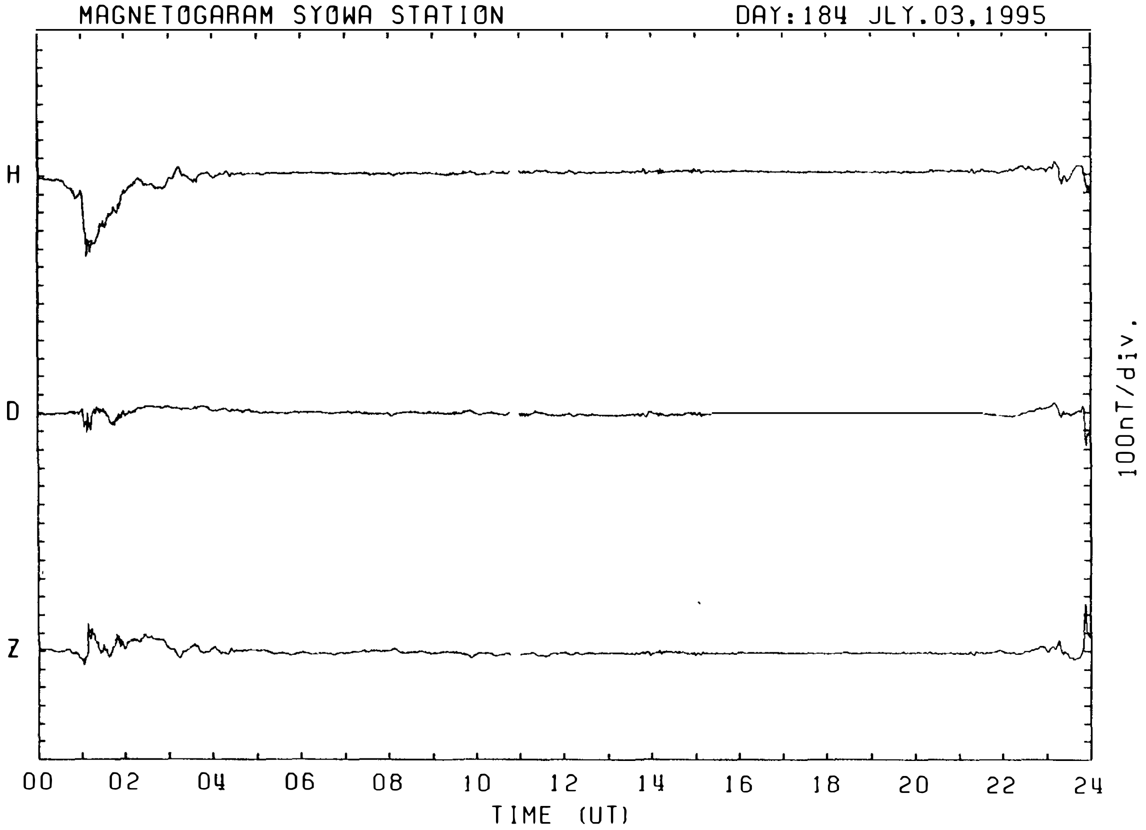

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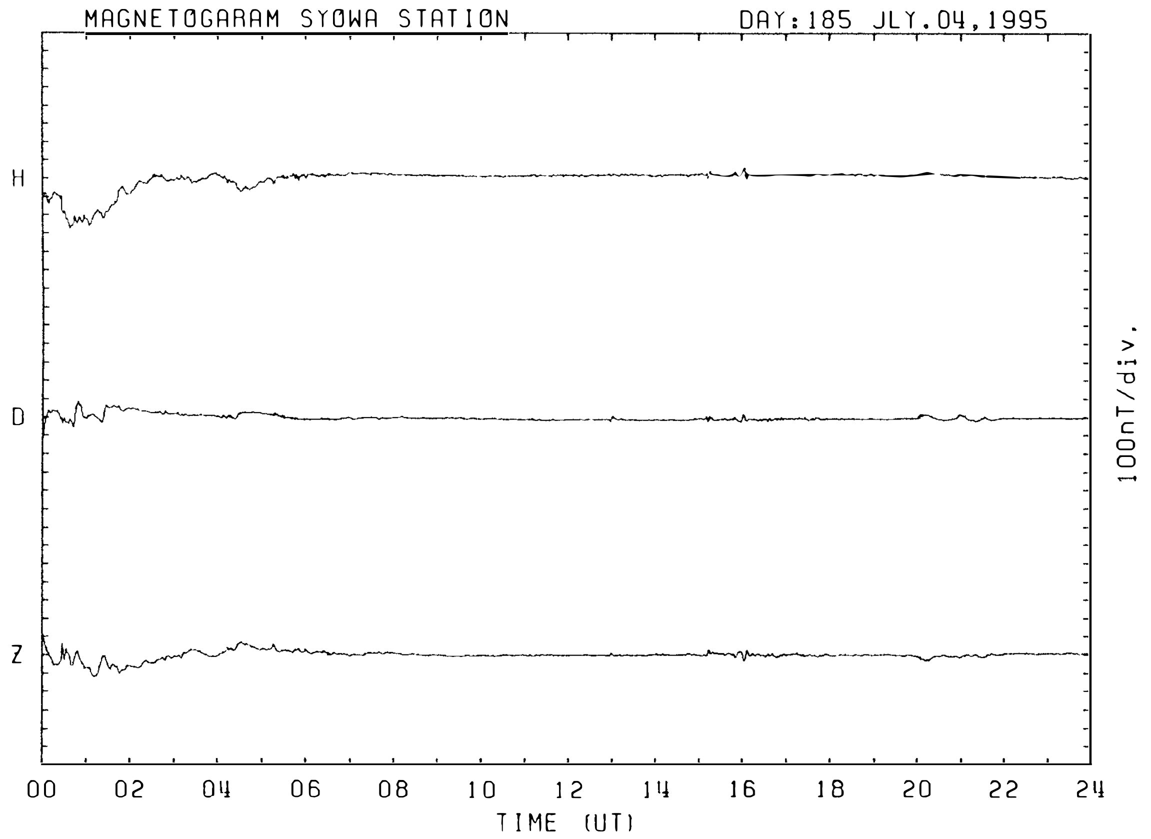
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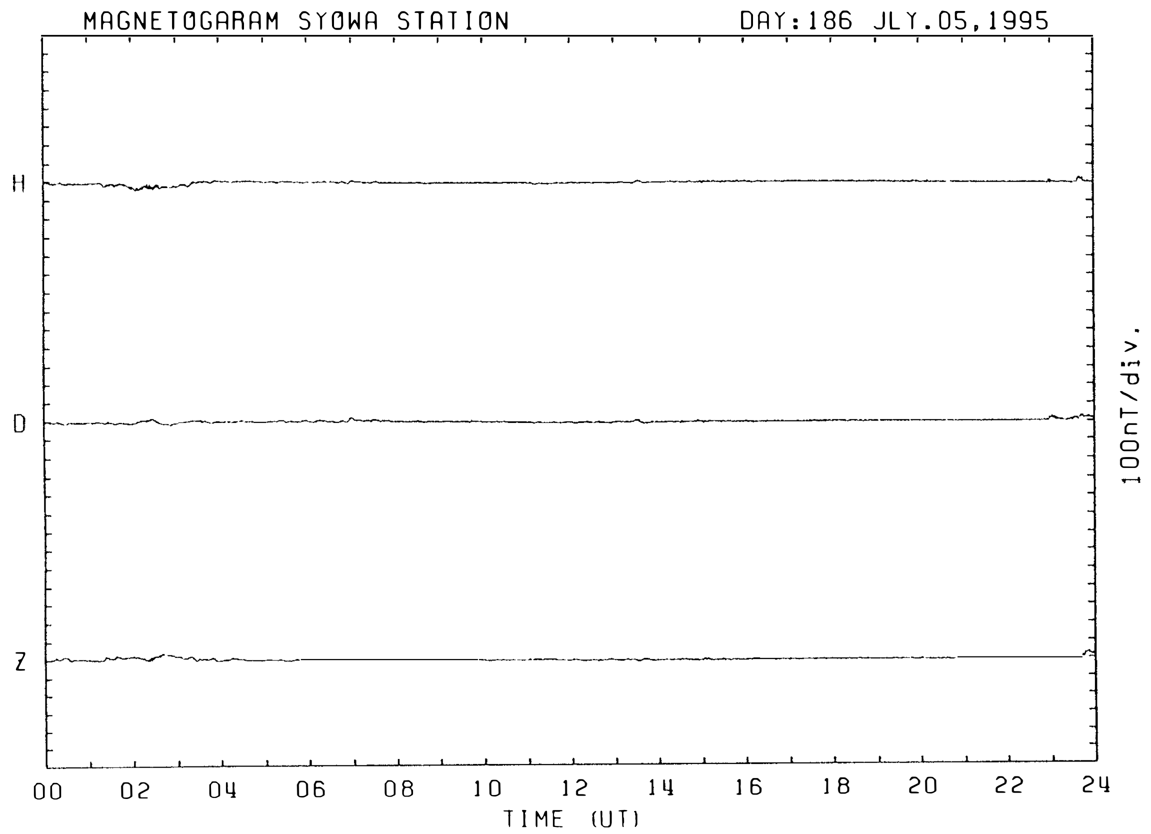
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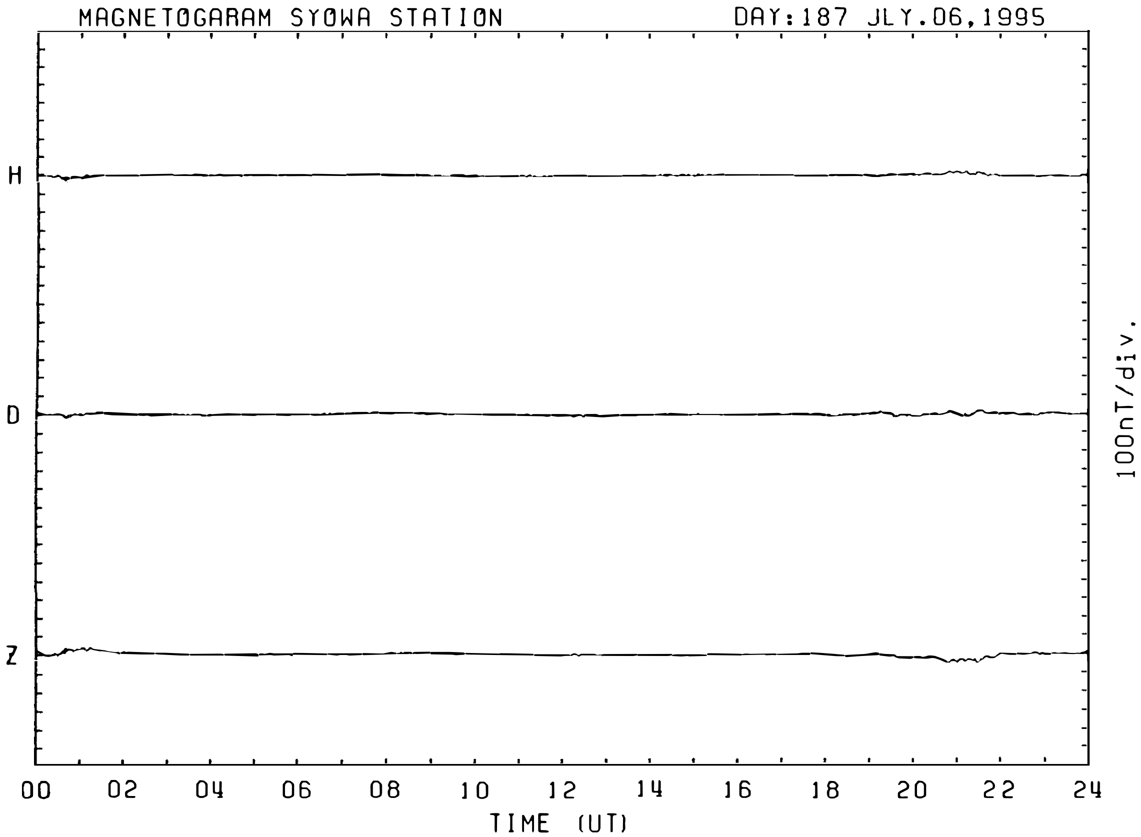

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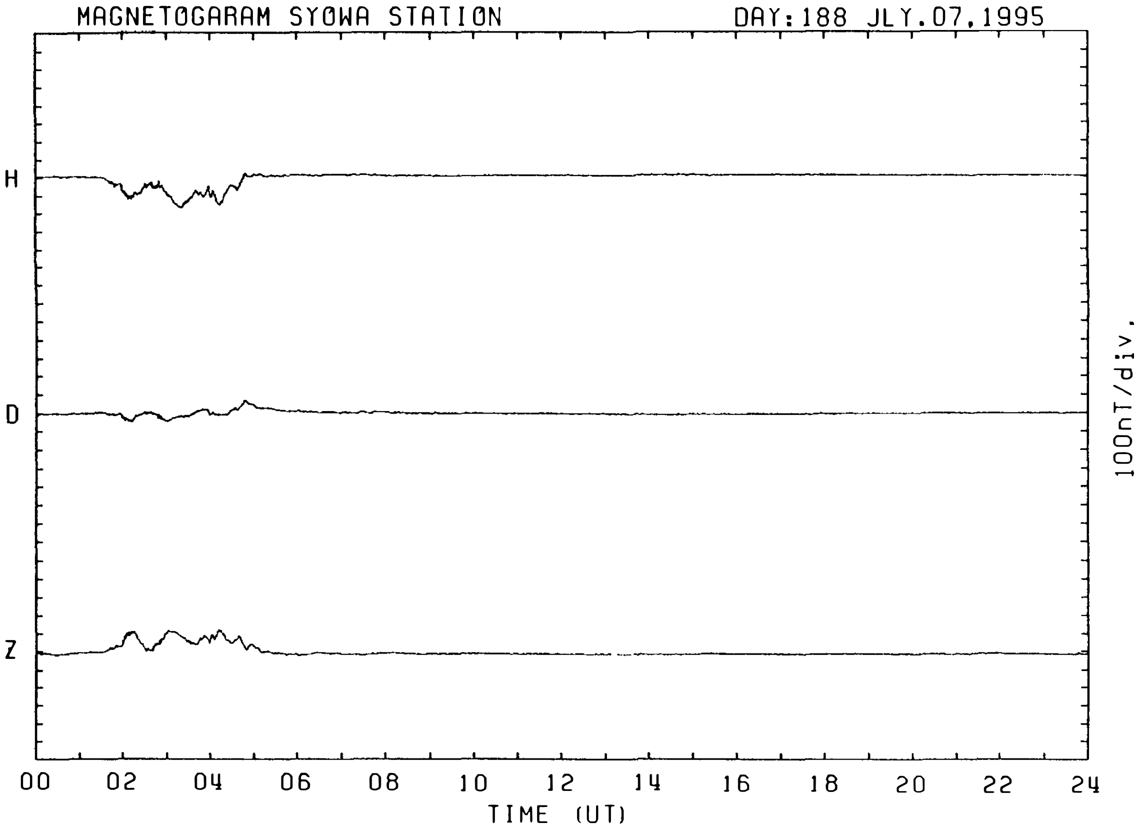
TIME (UT)



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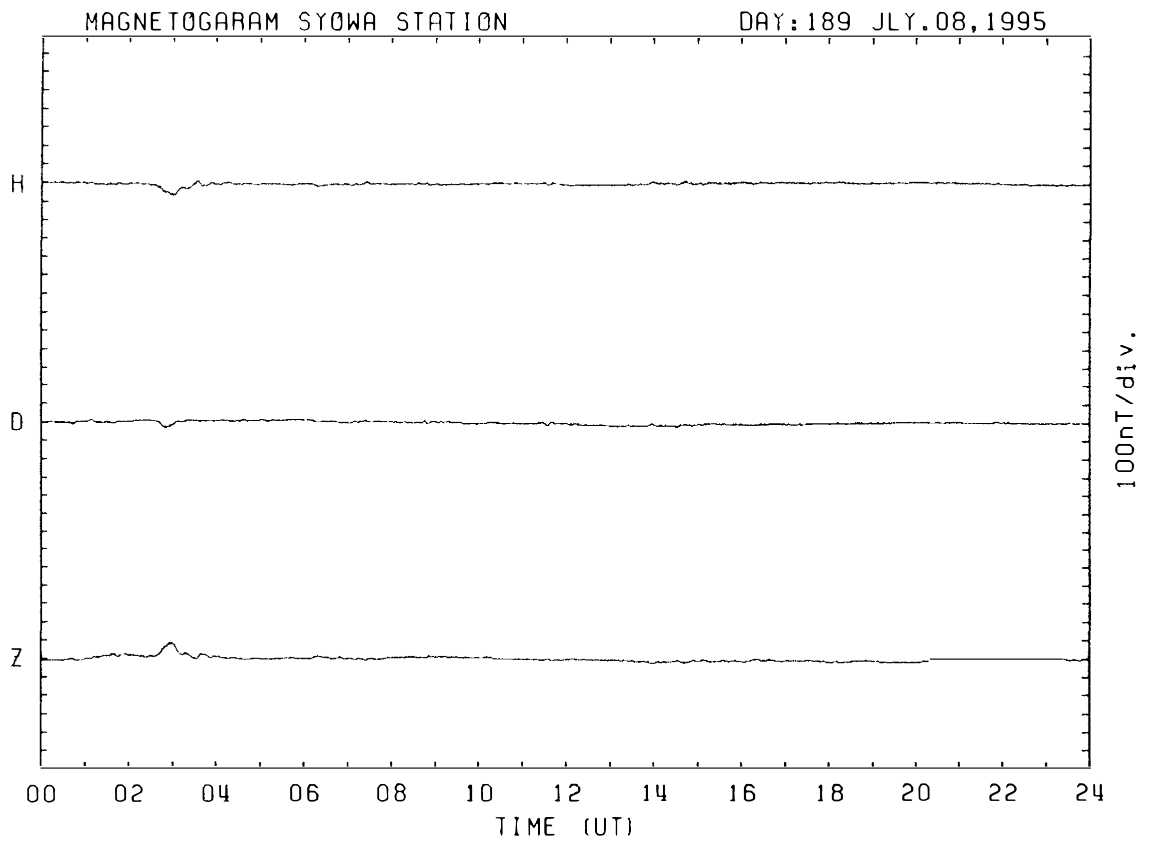
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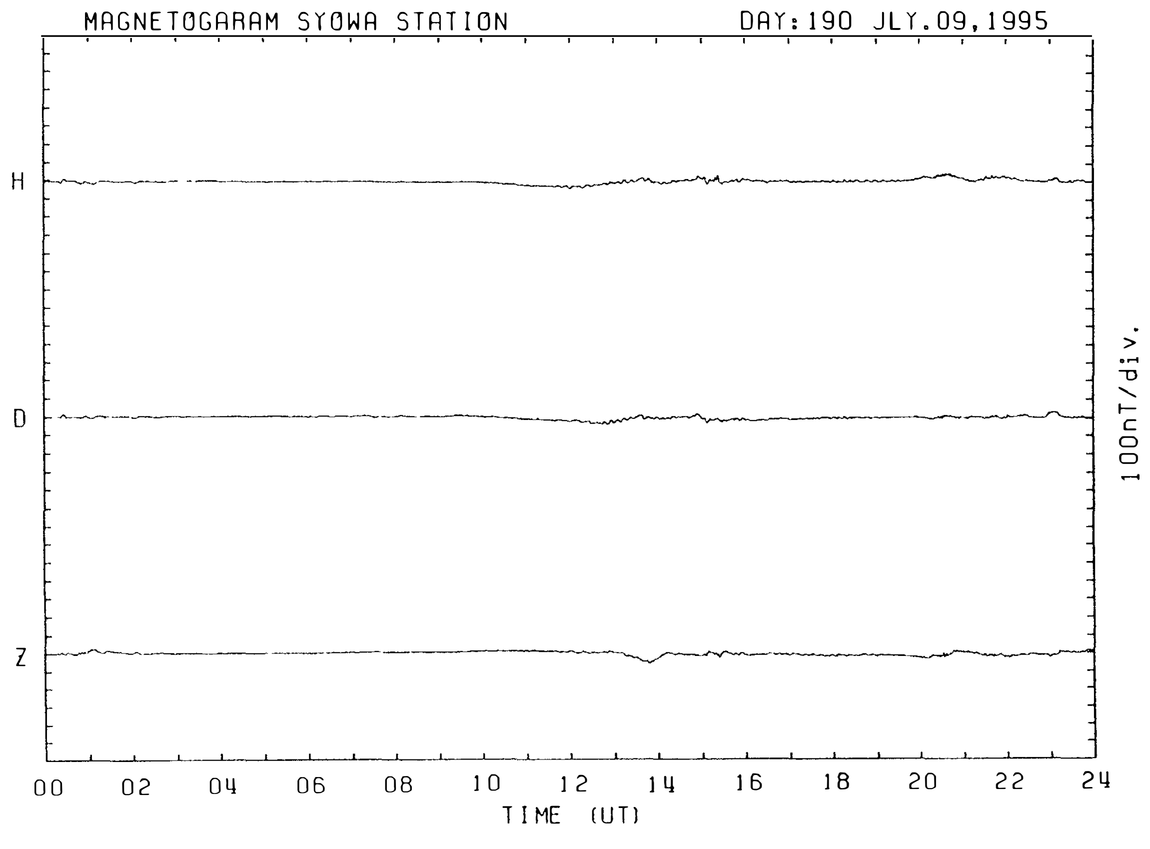
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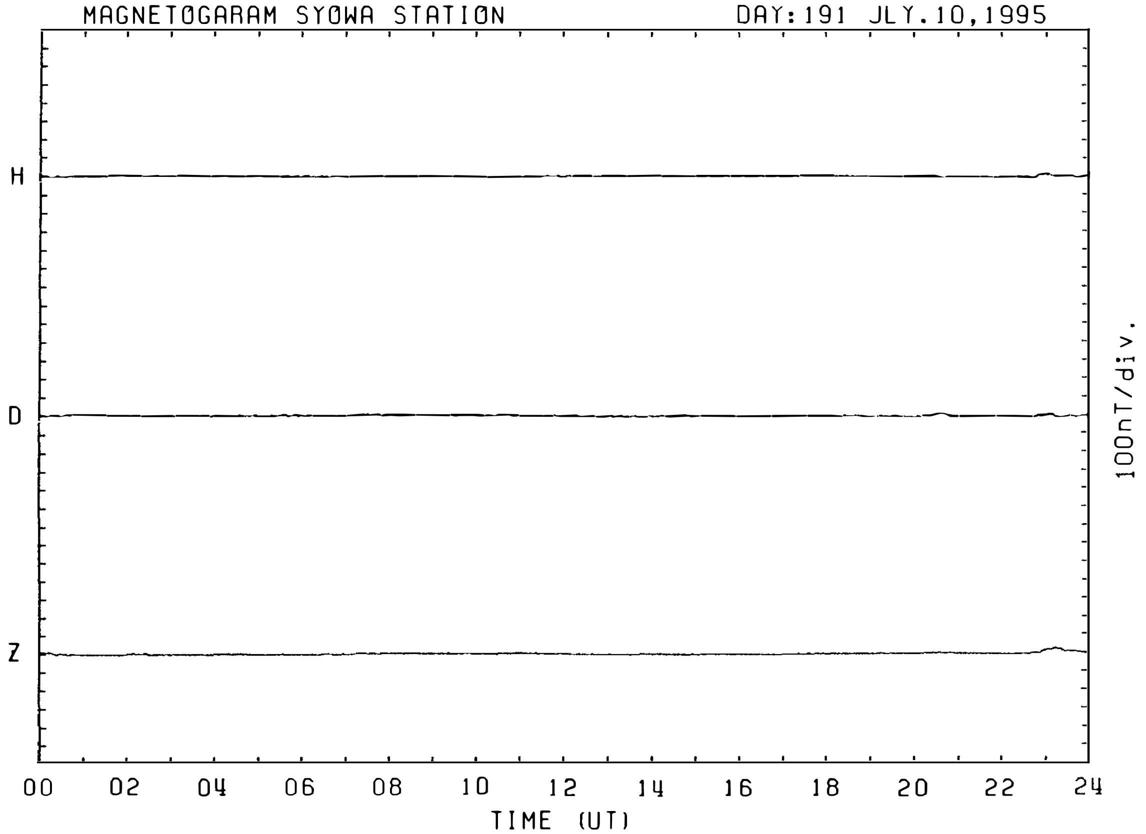
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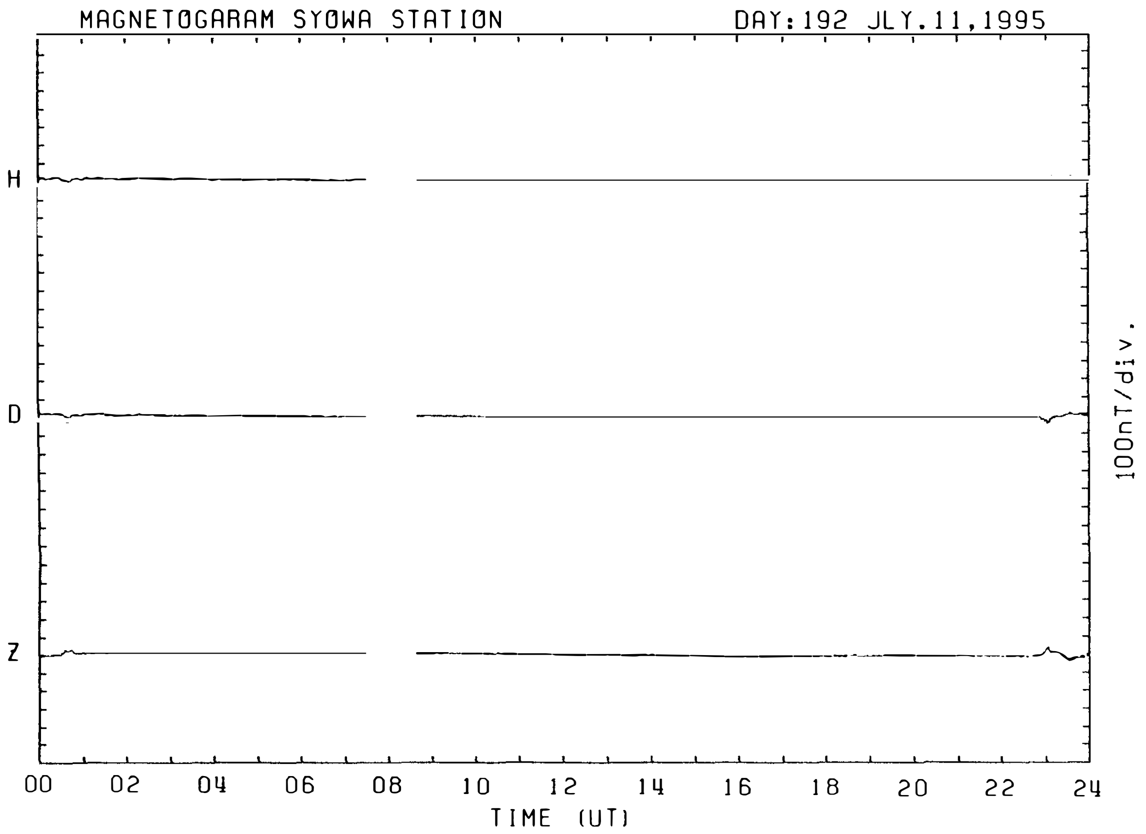
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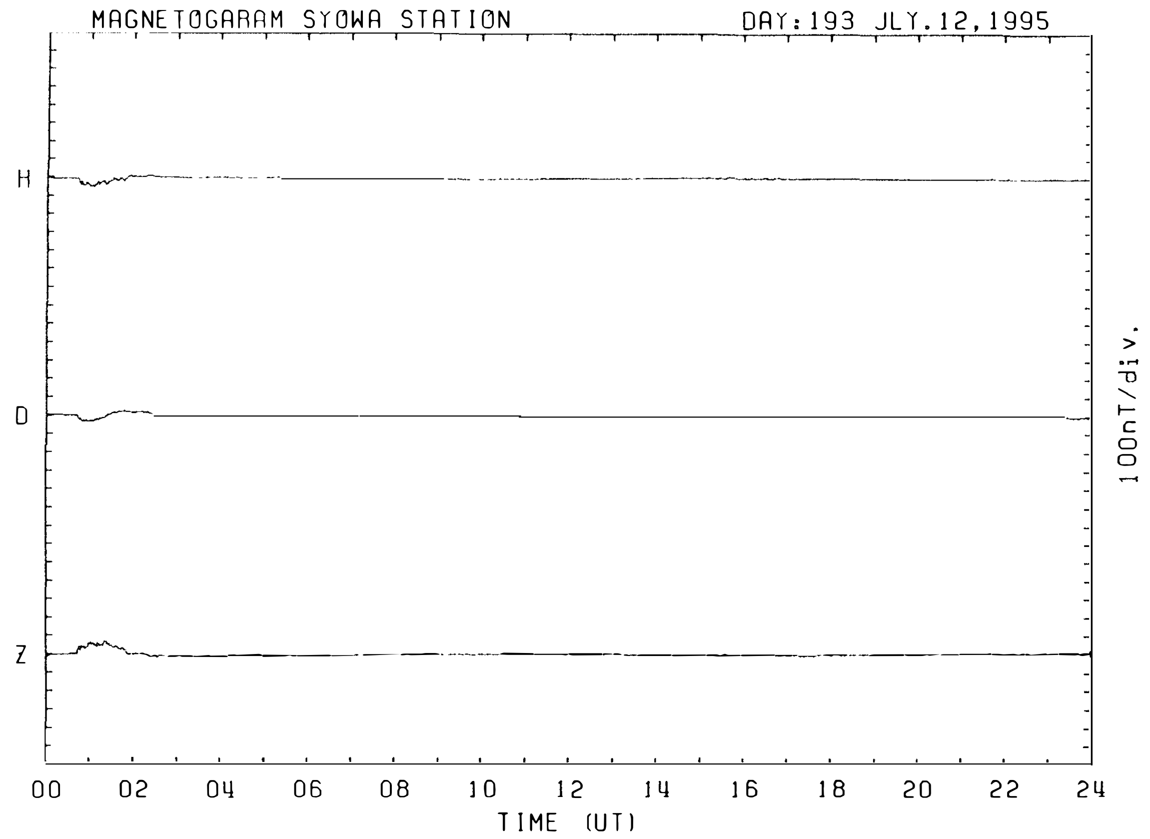
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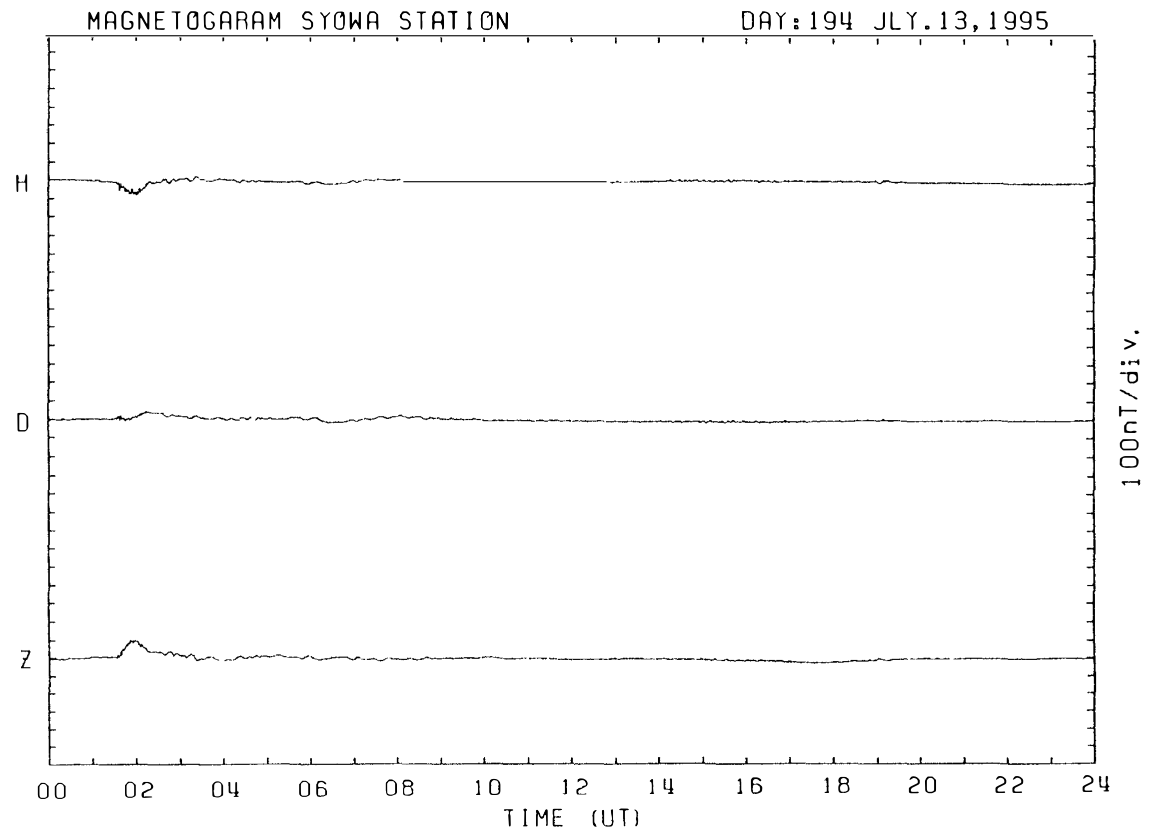
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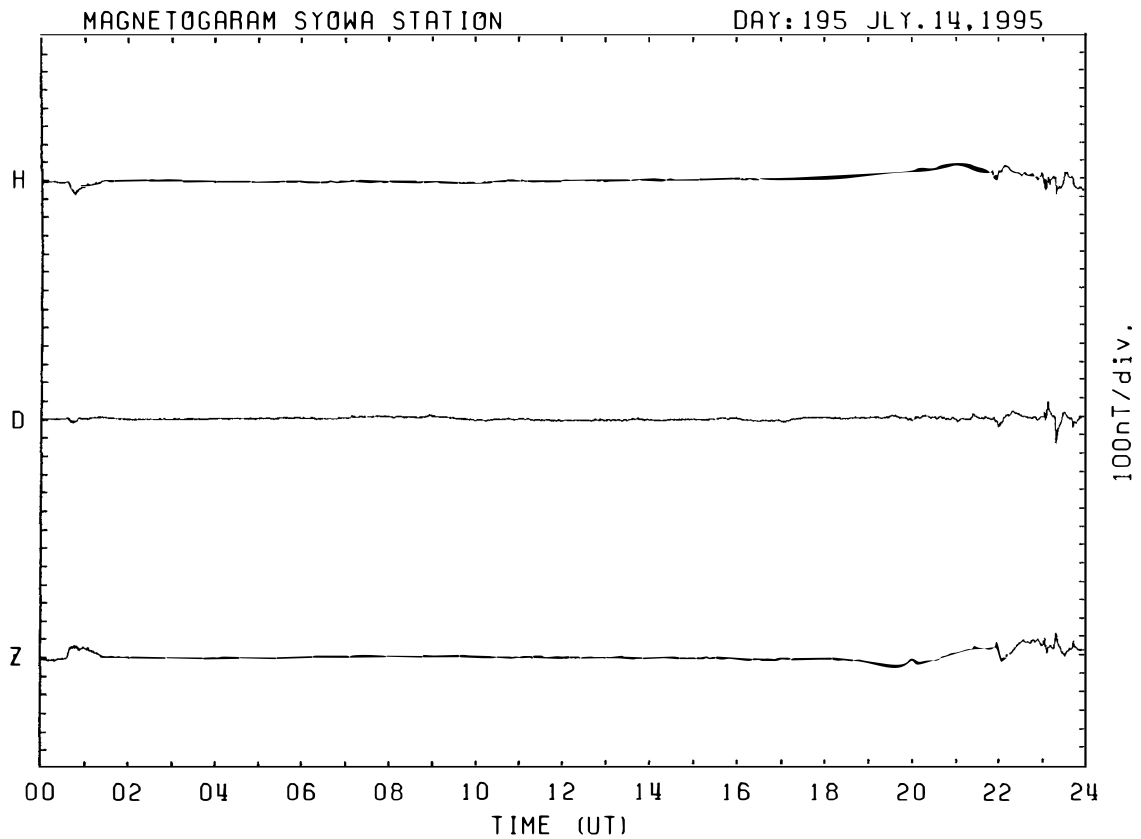
TIME (UT)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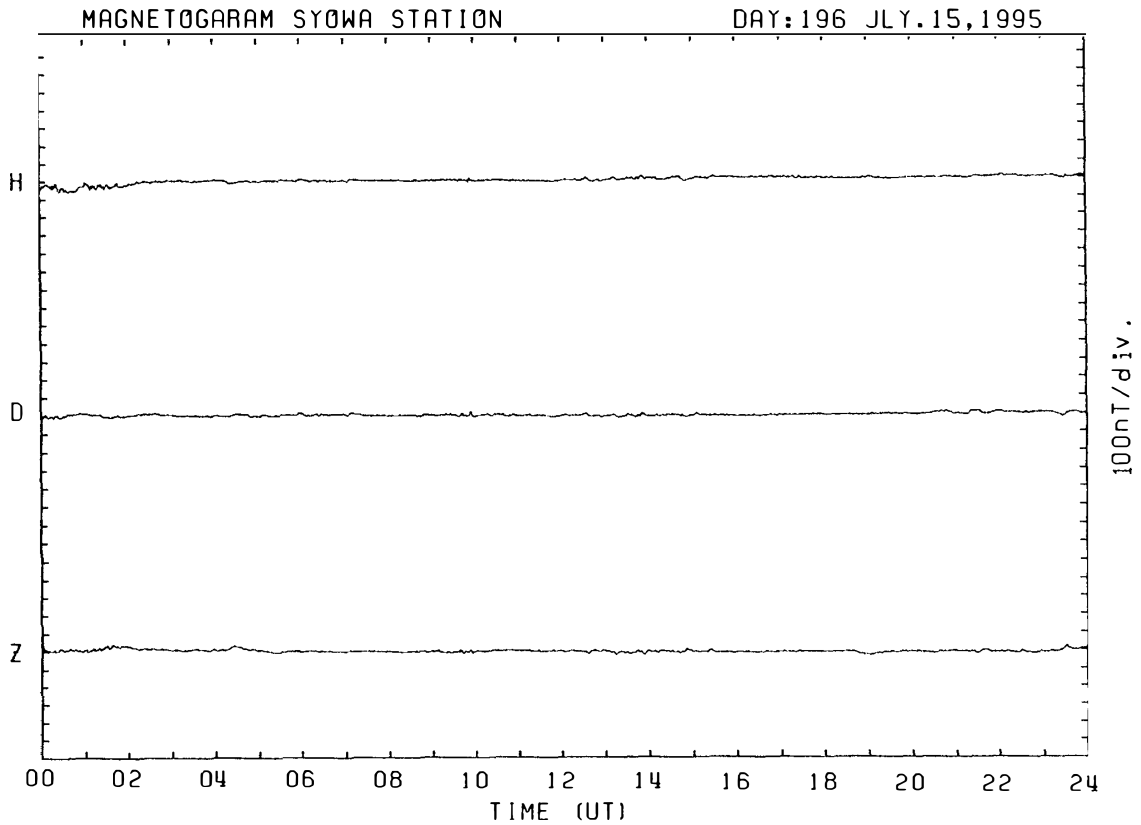
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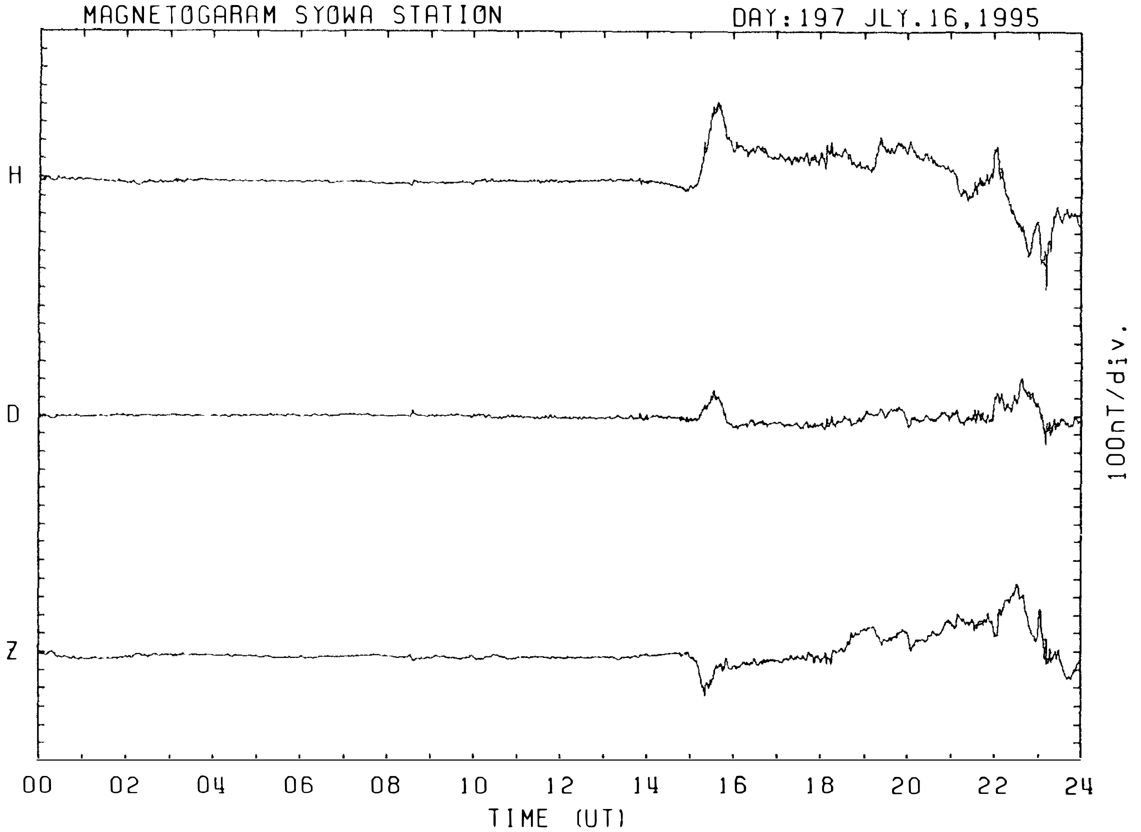
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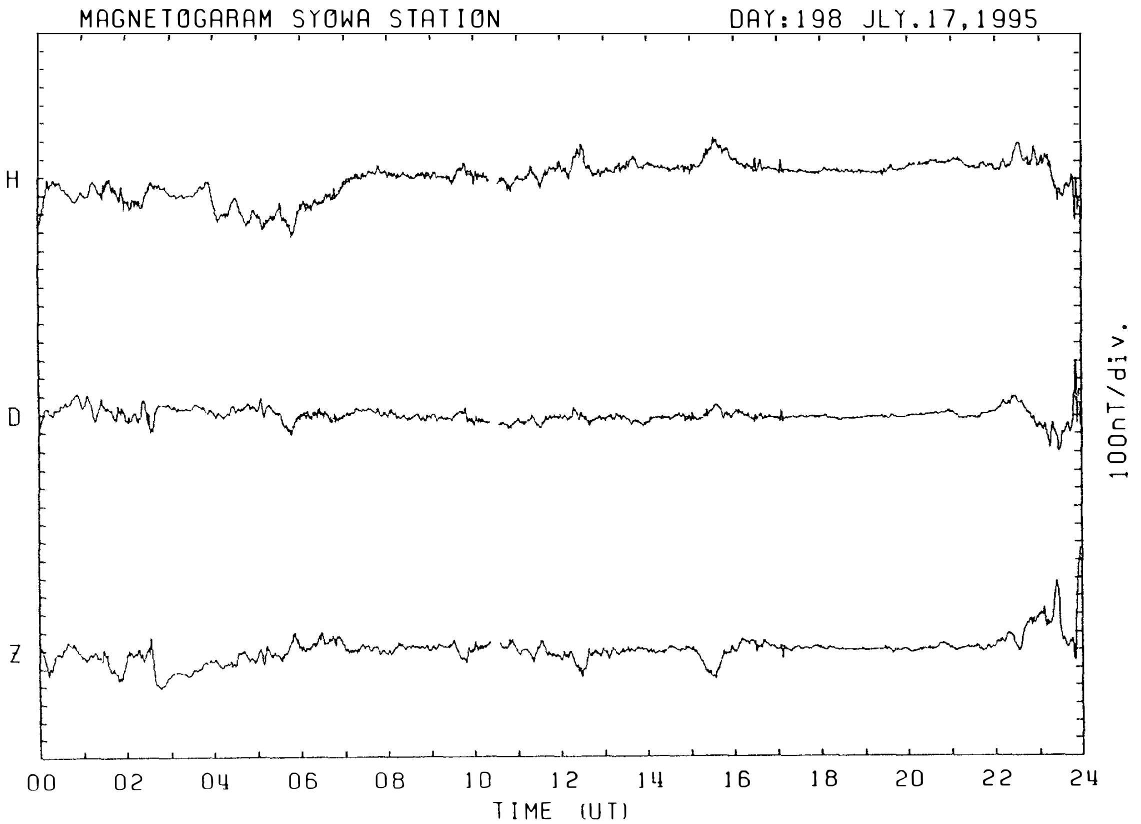
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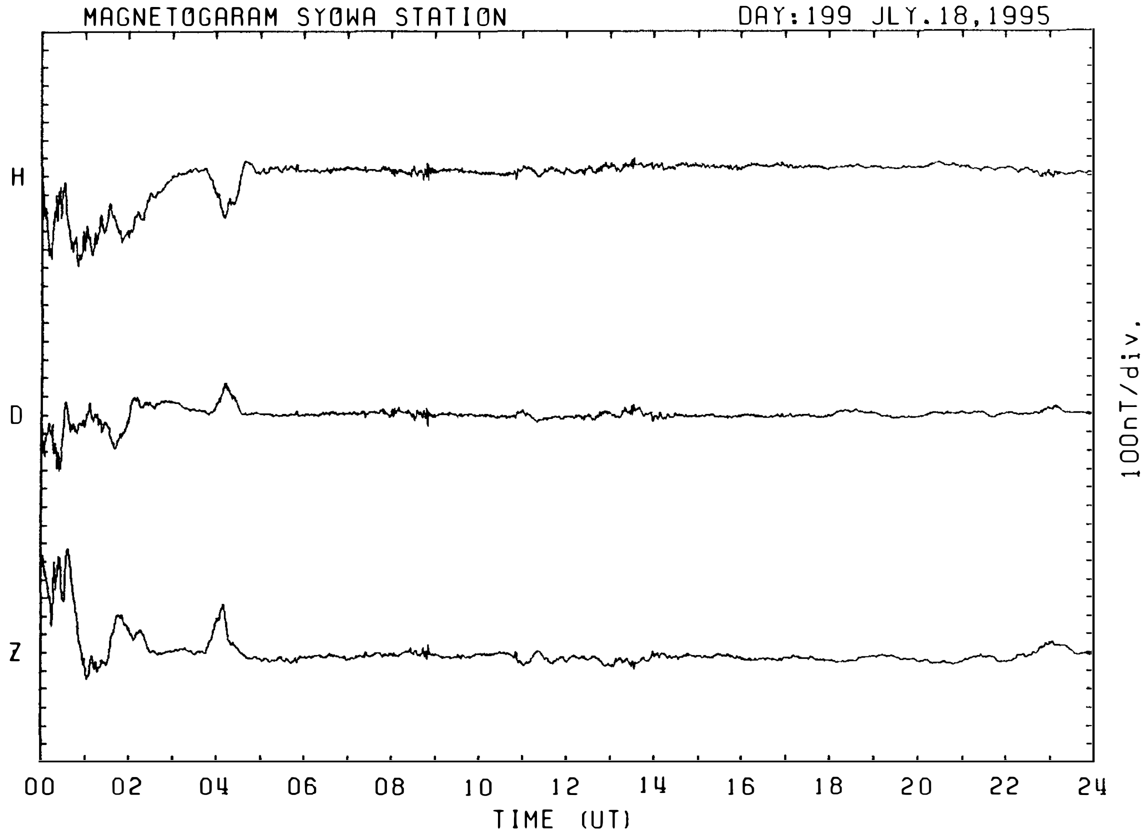
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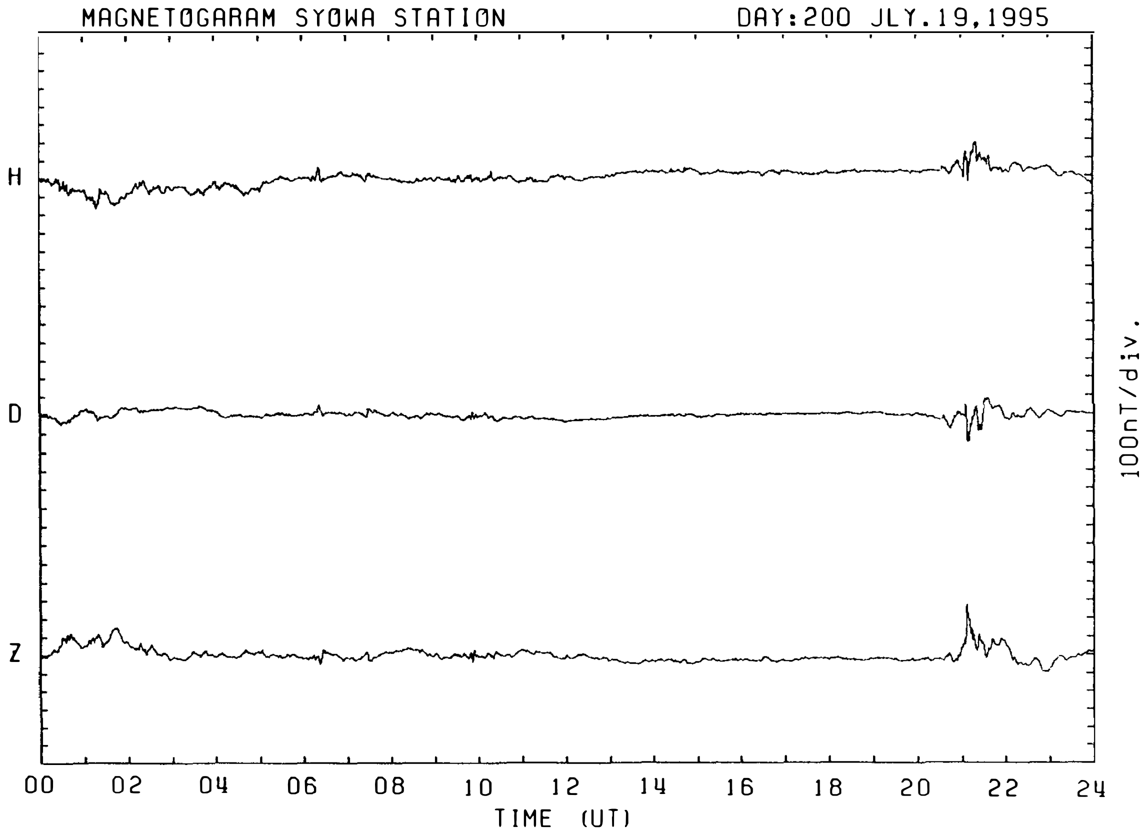
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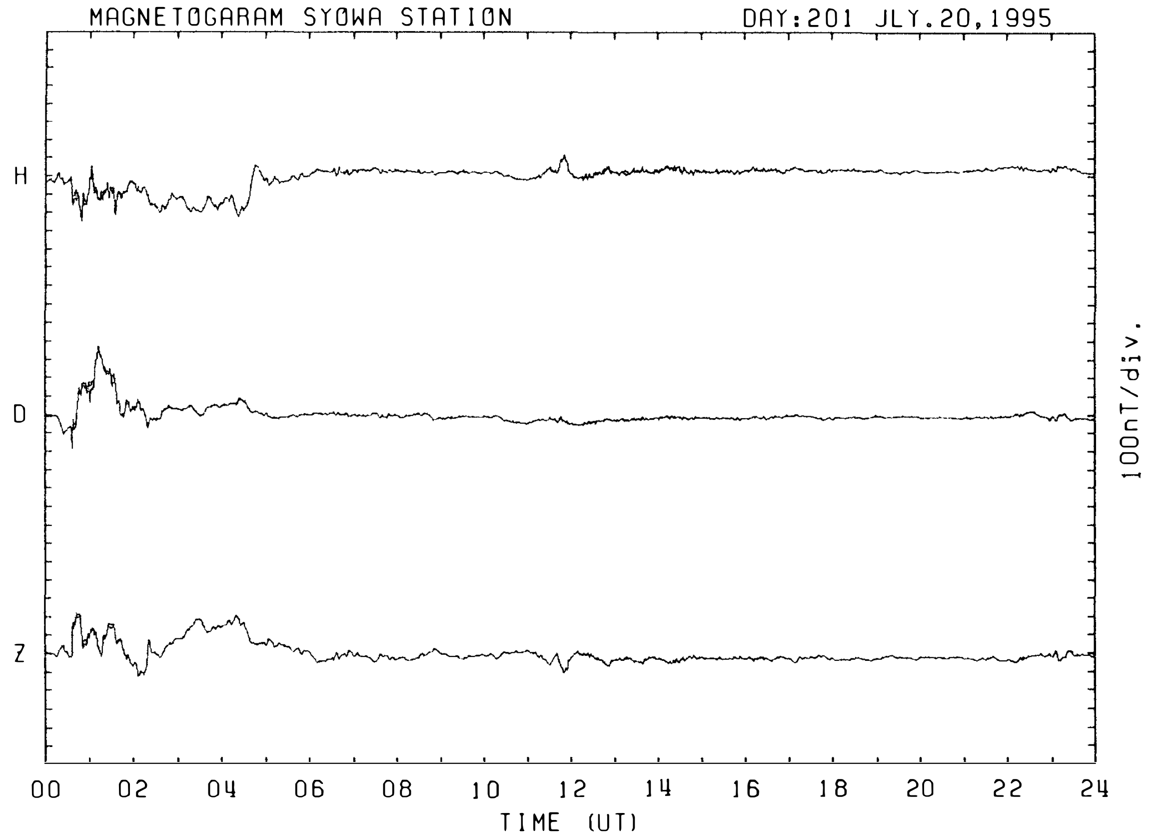
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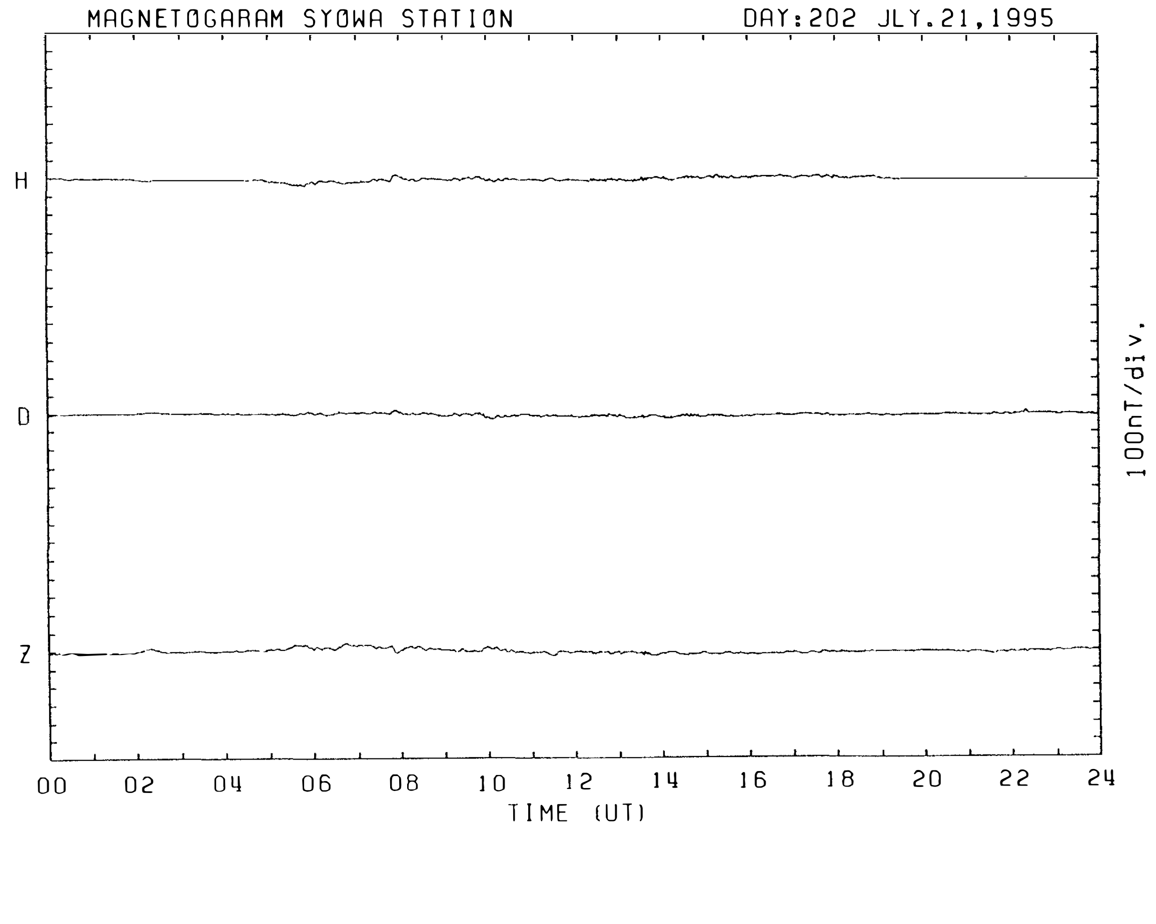
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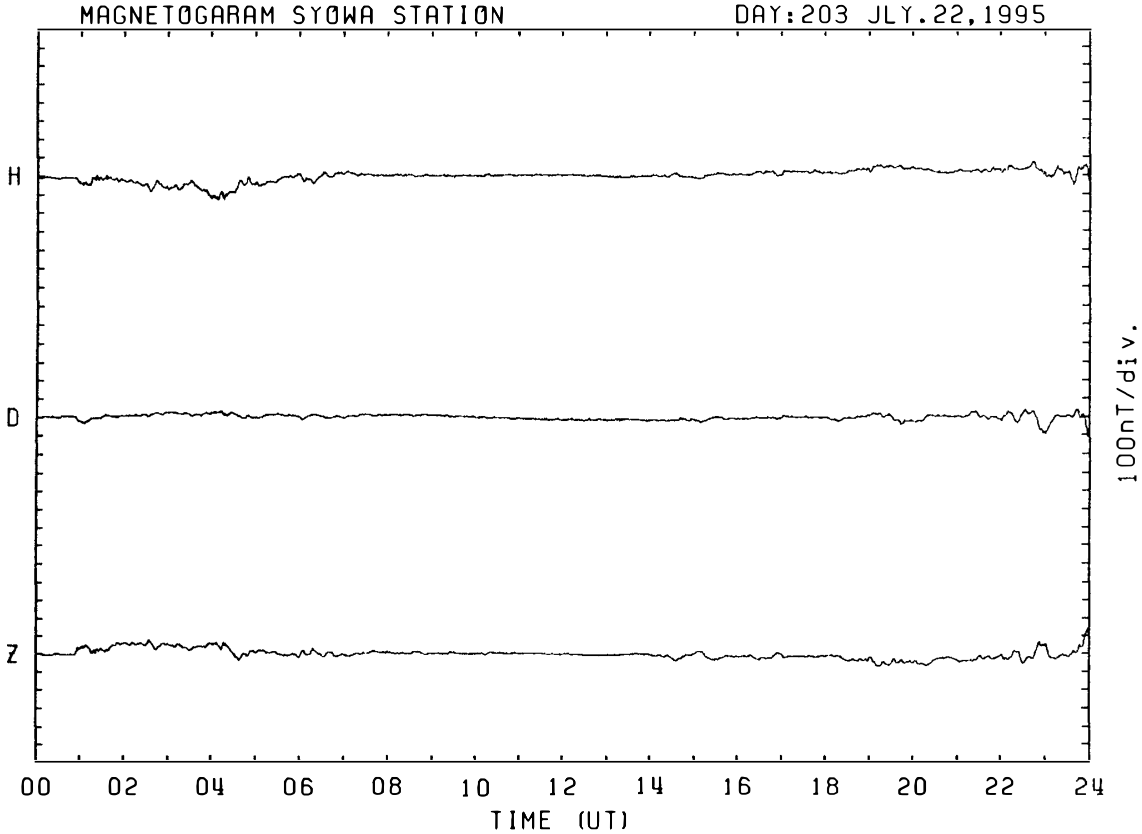
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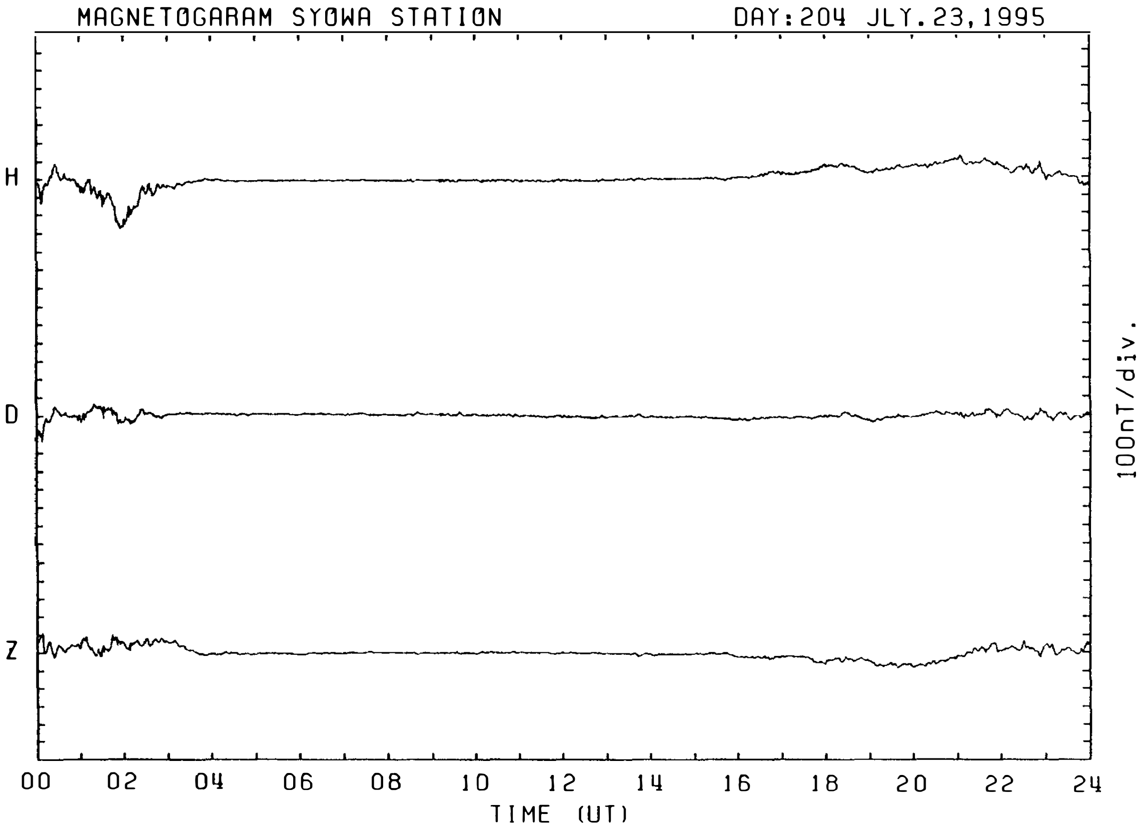
TIME (UT)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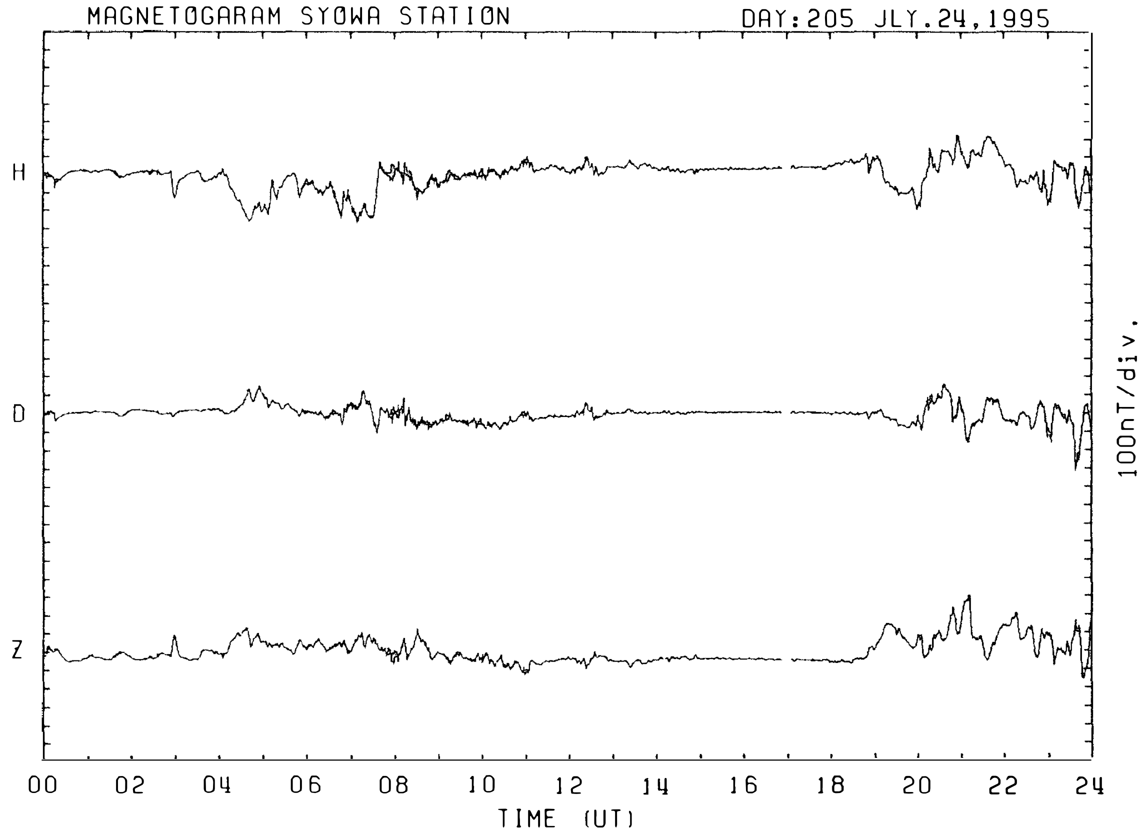
TIME (UT)



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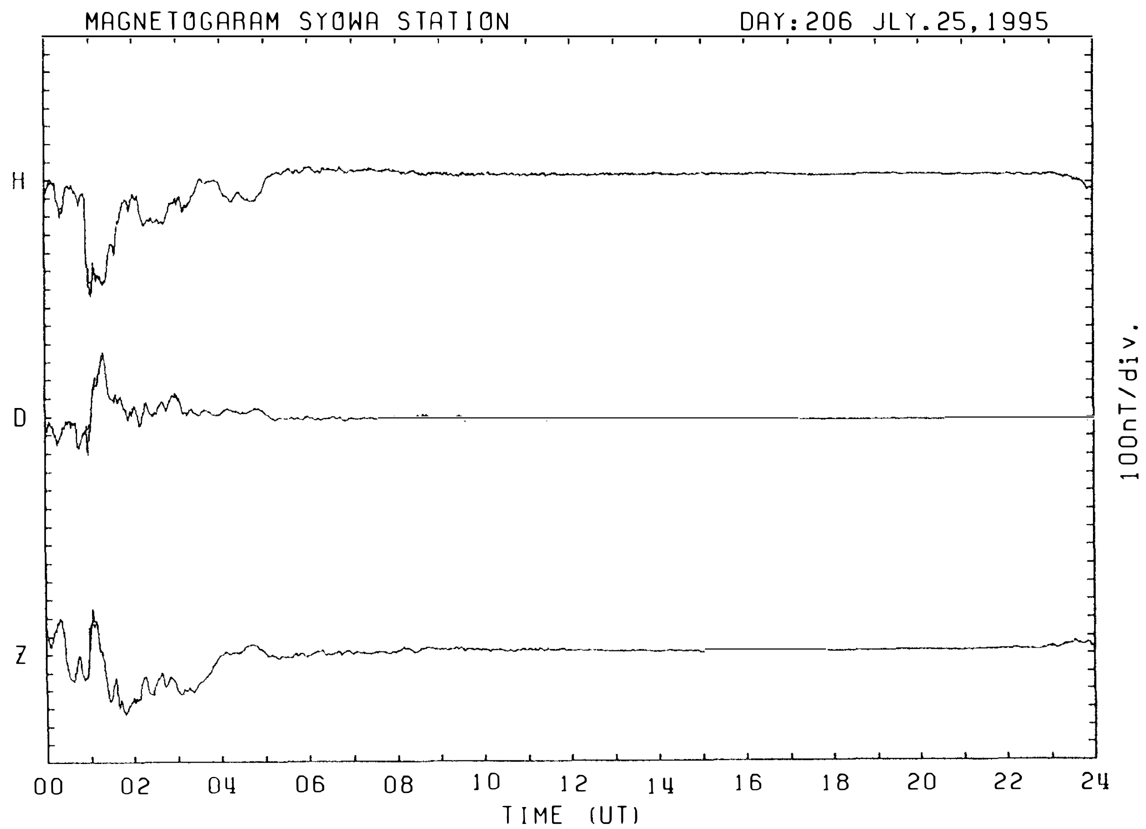

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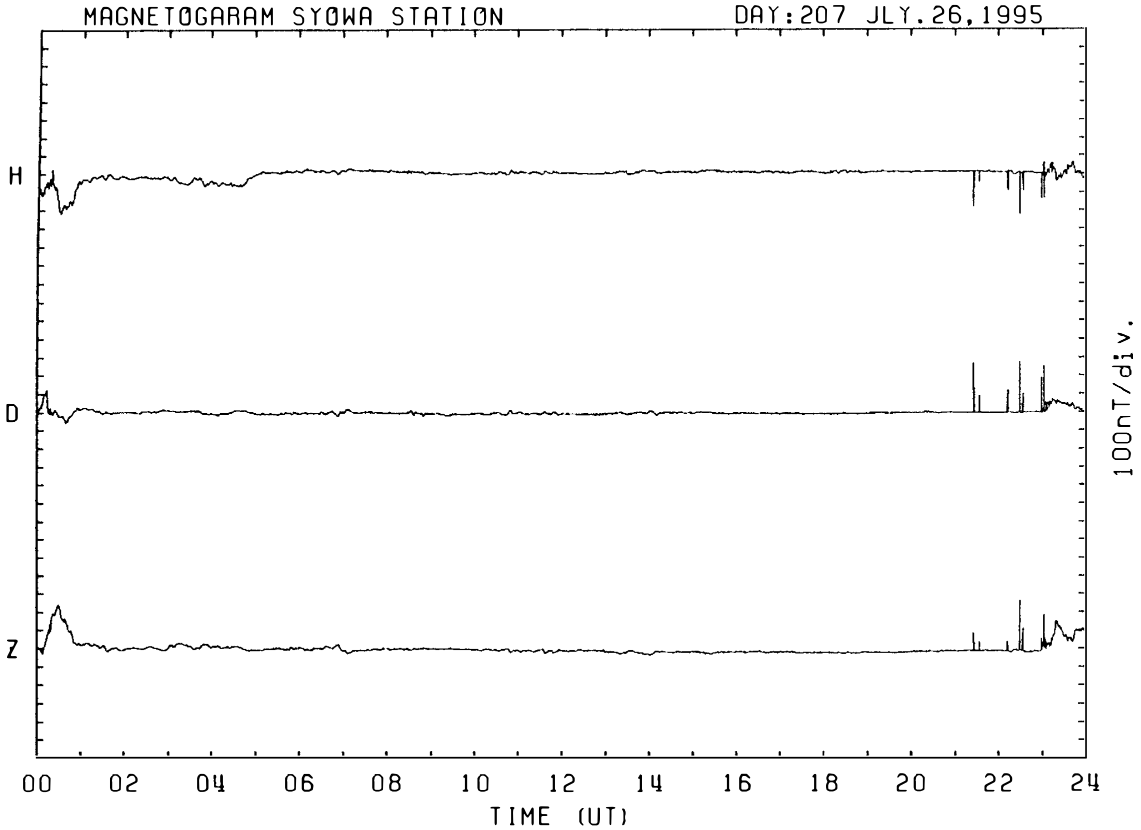
TIME (UT)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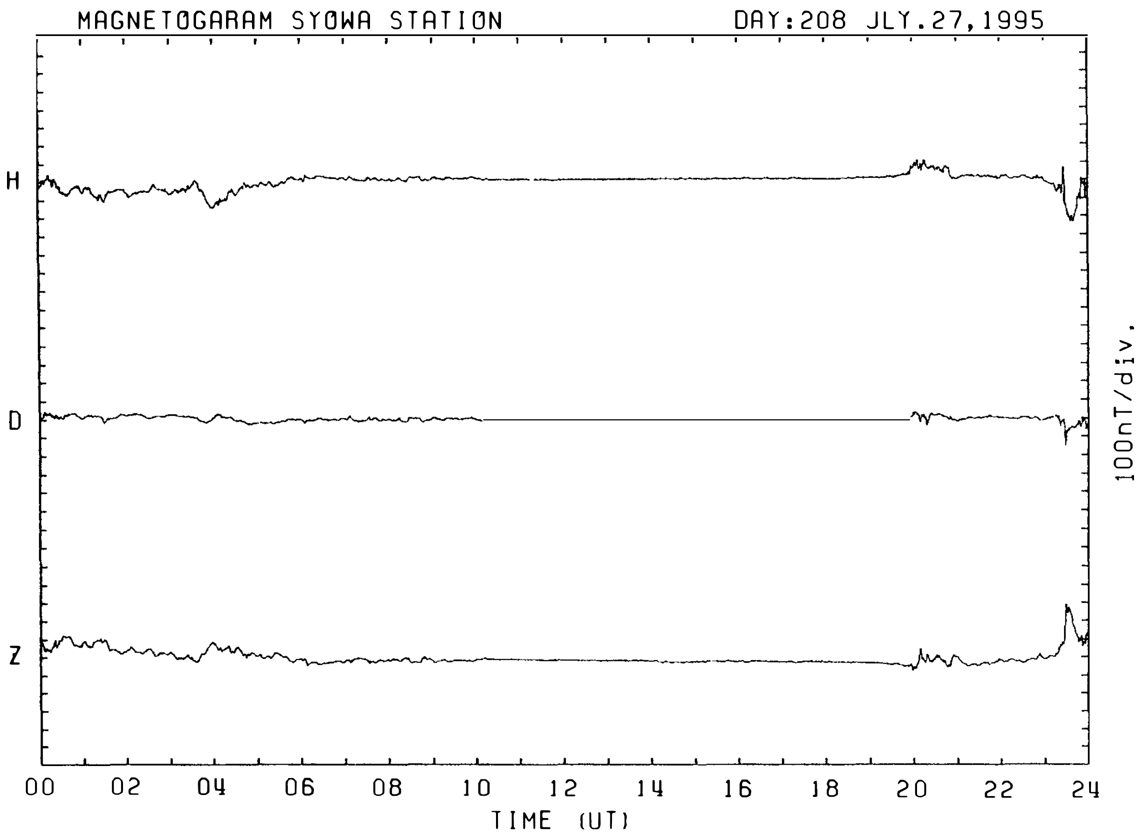
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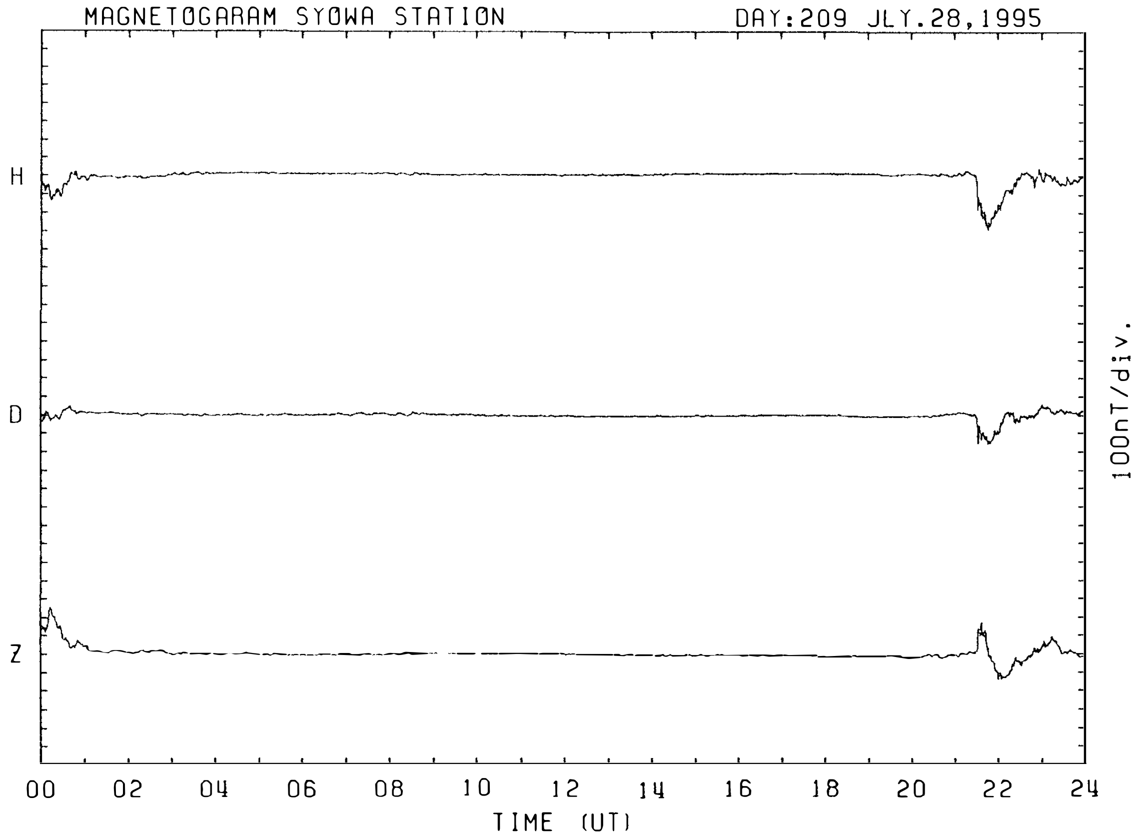
TIME (UT)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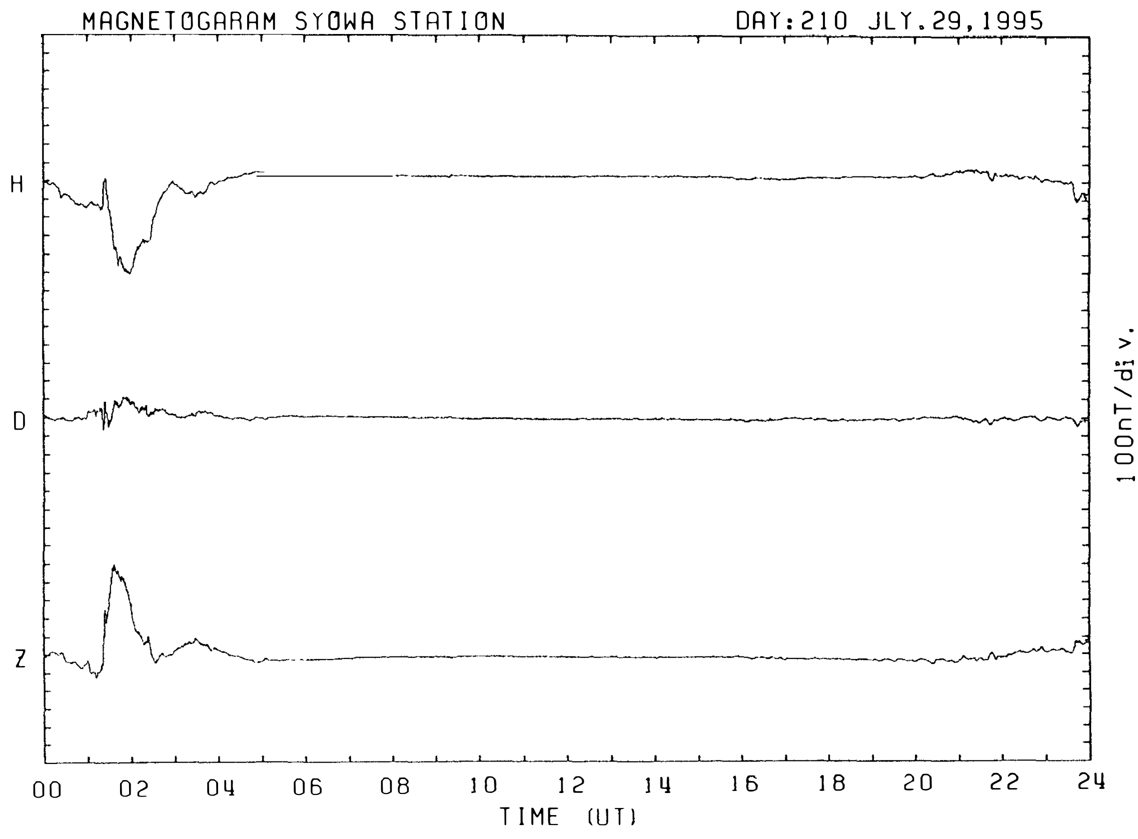
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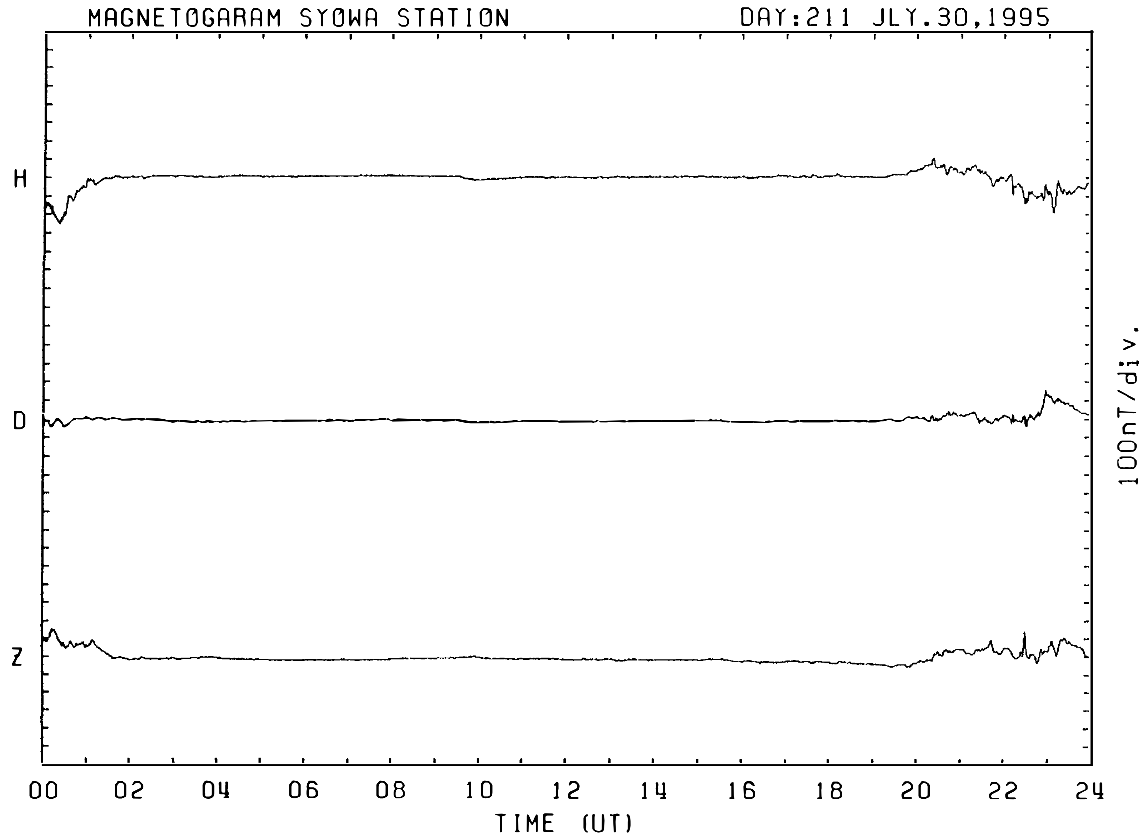
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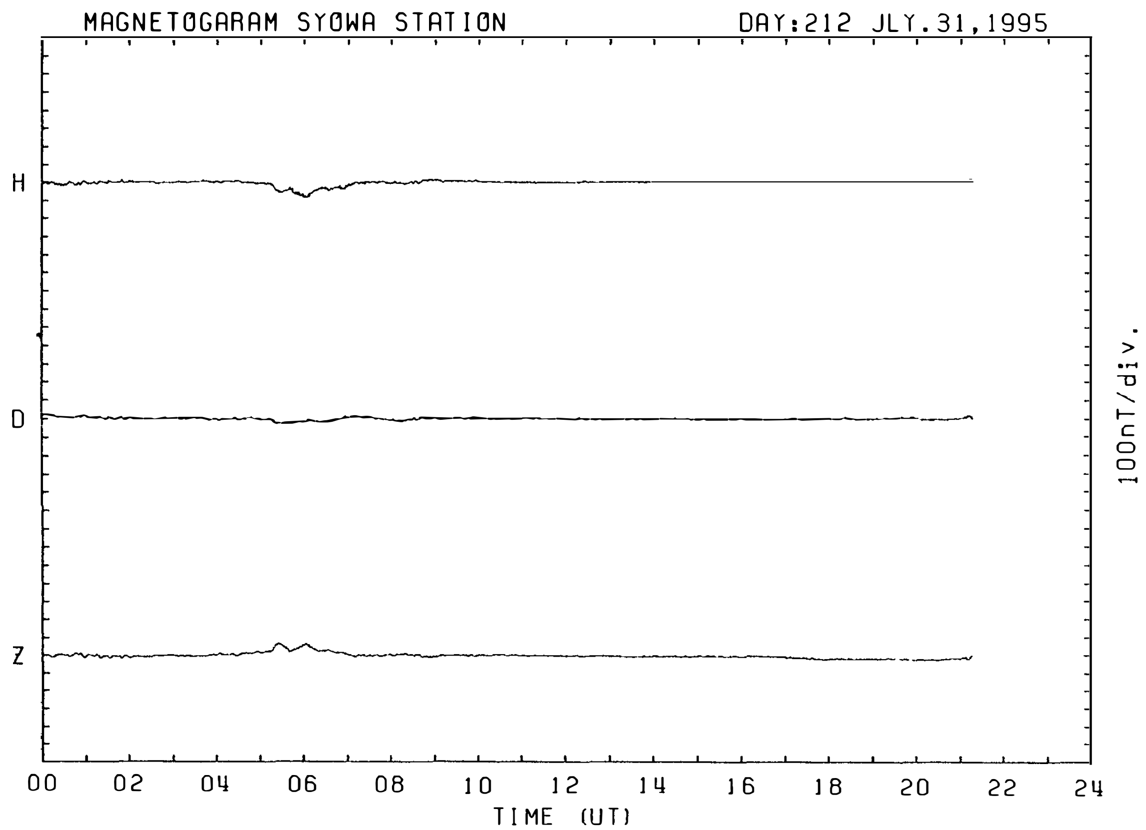
TIME (UT)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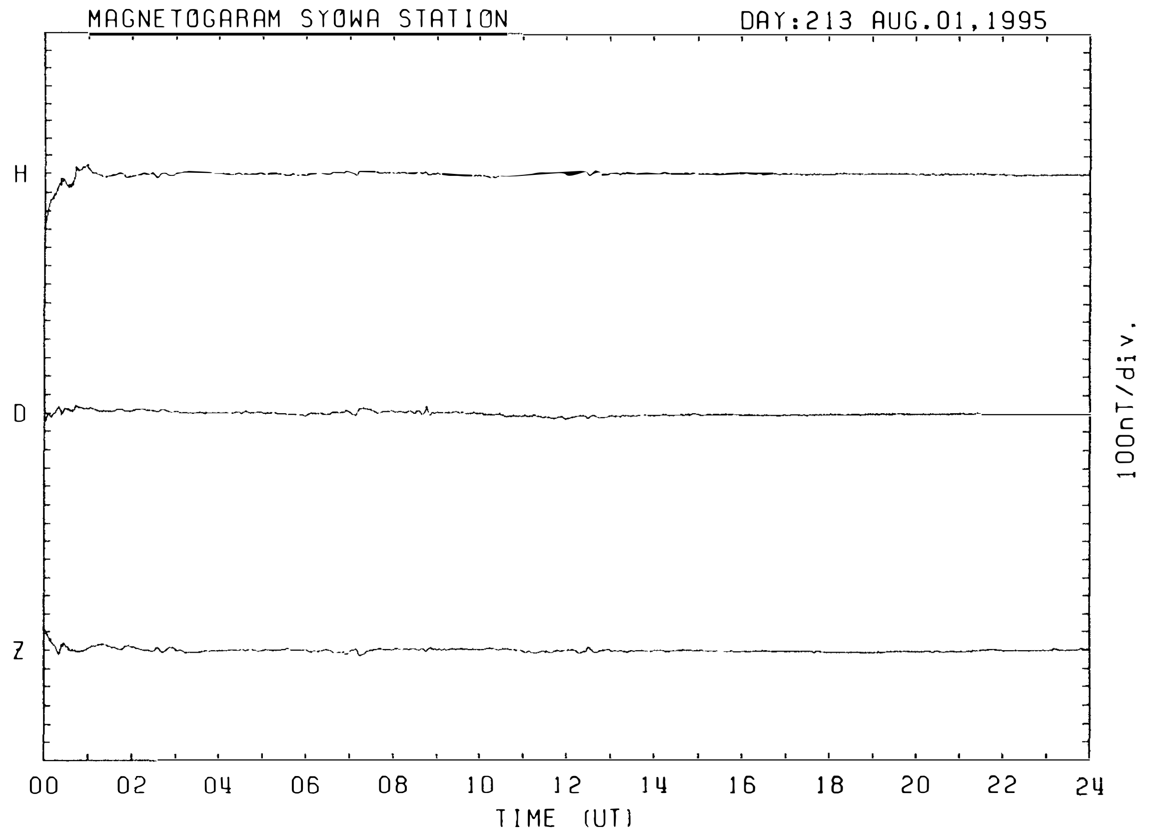
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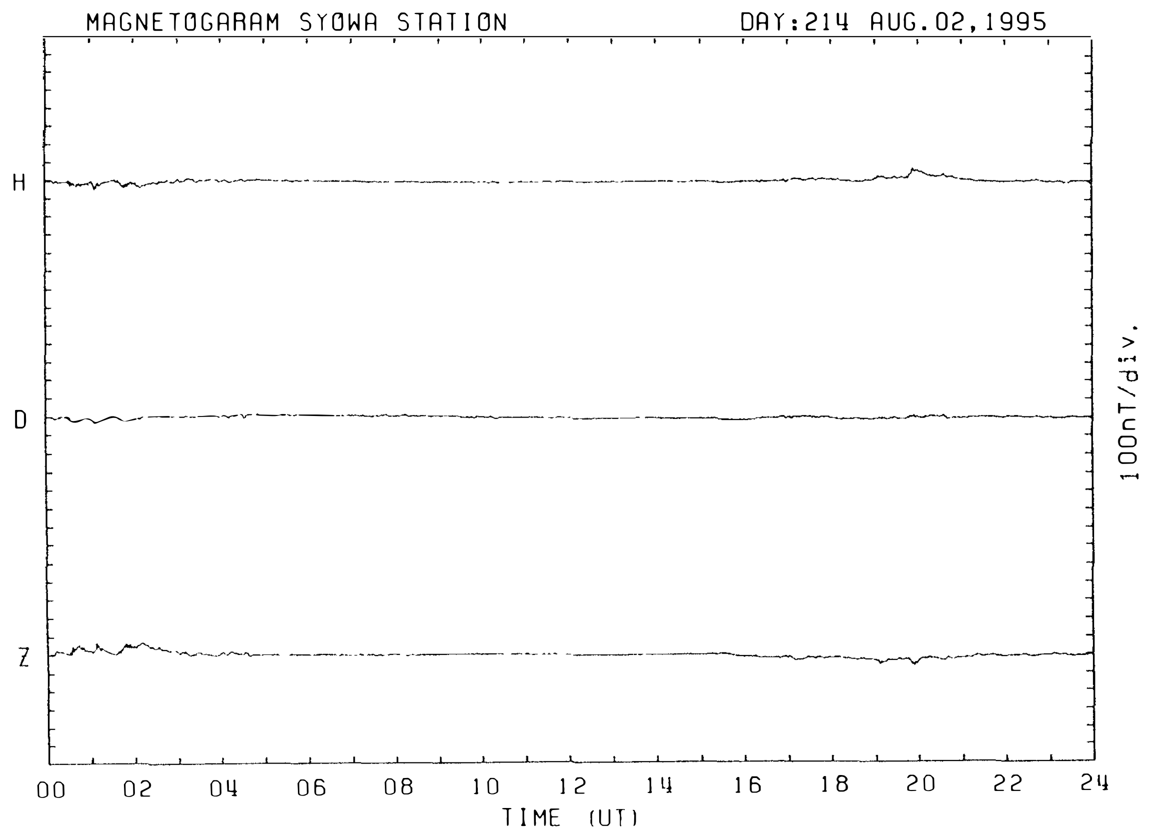
TIME (UT)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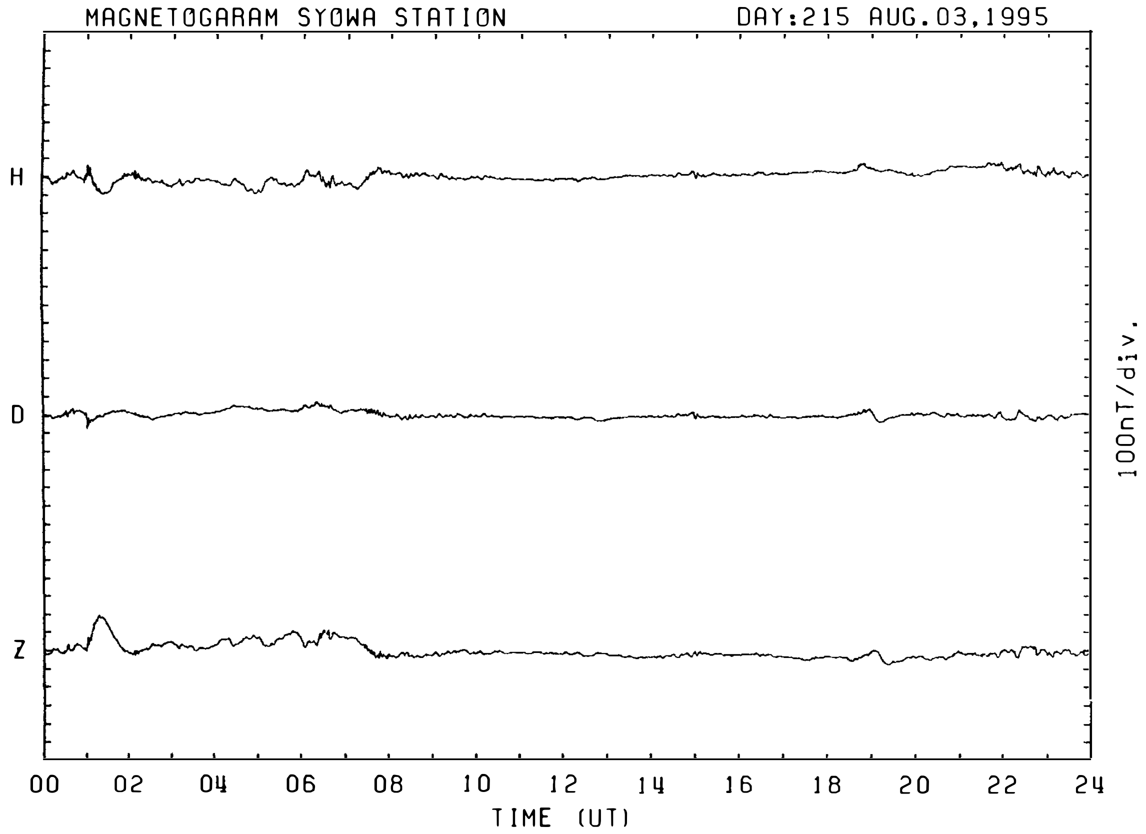
TIME (UT)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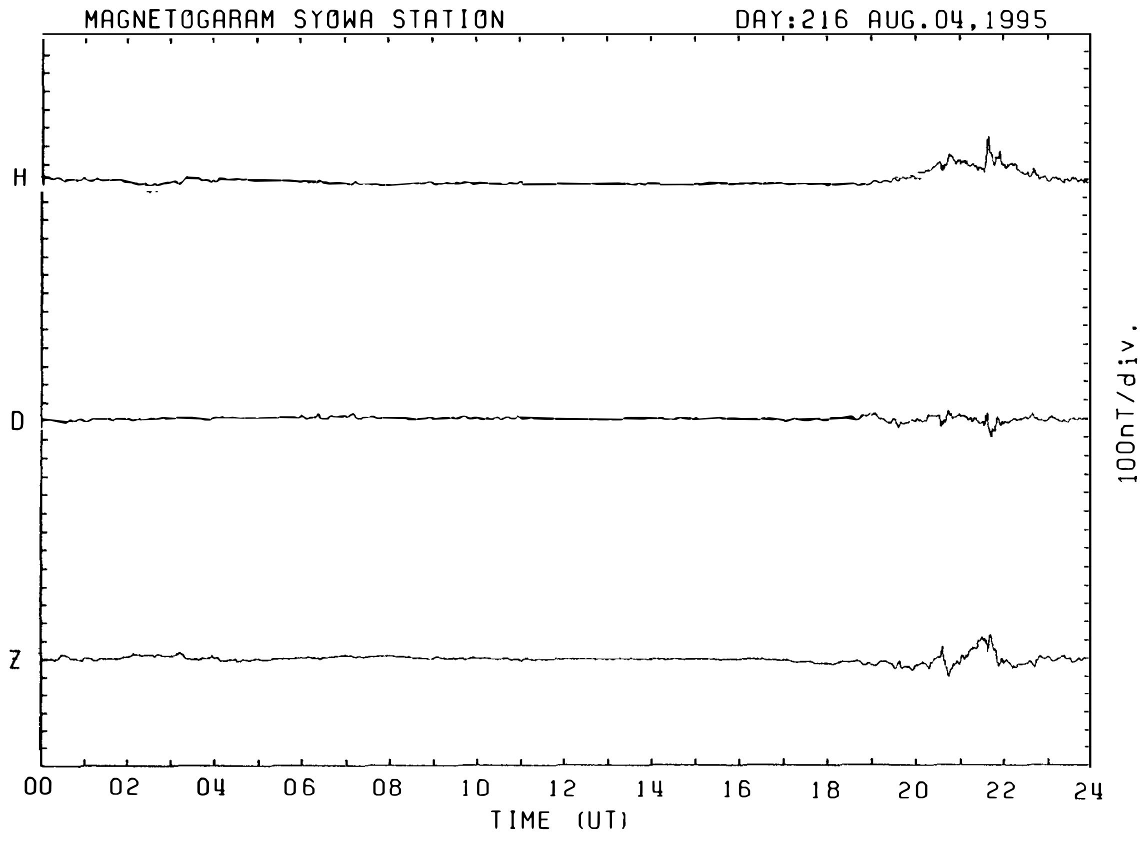
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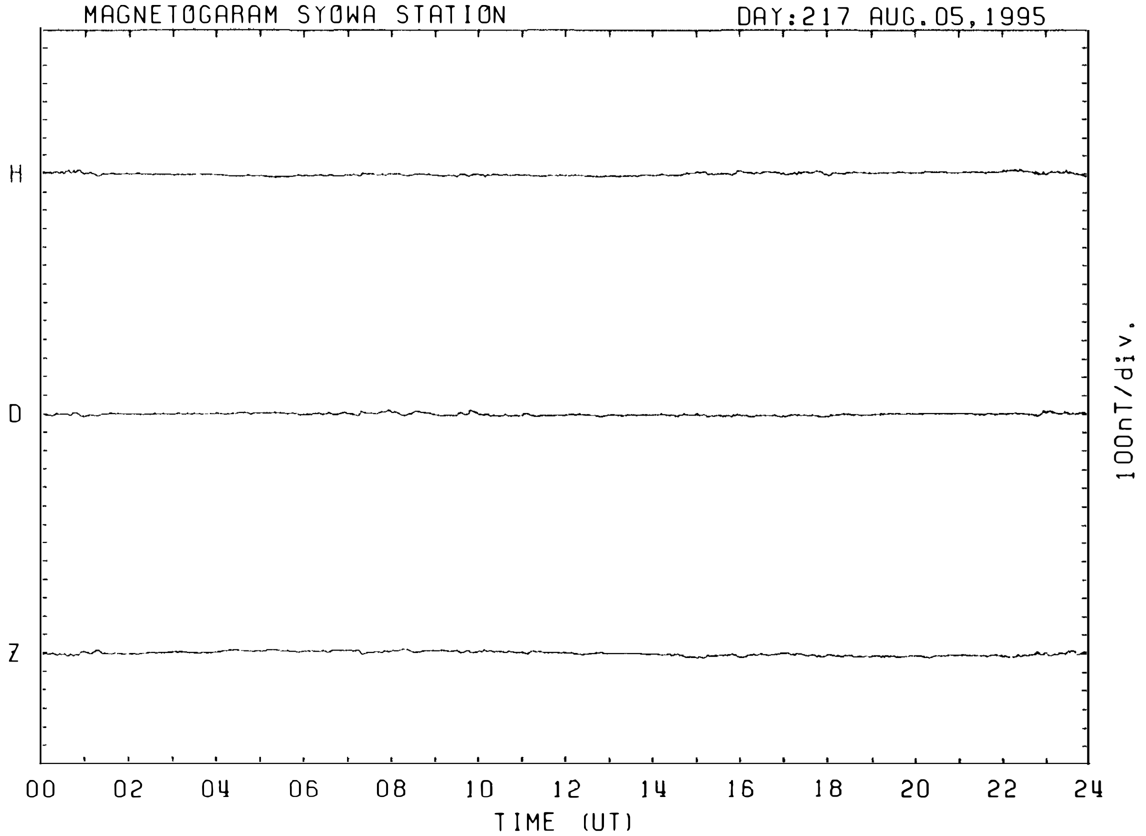
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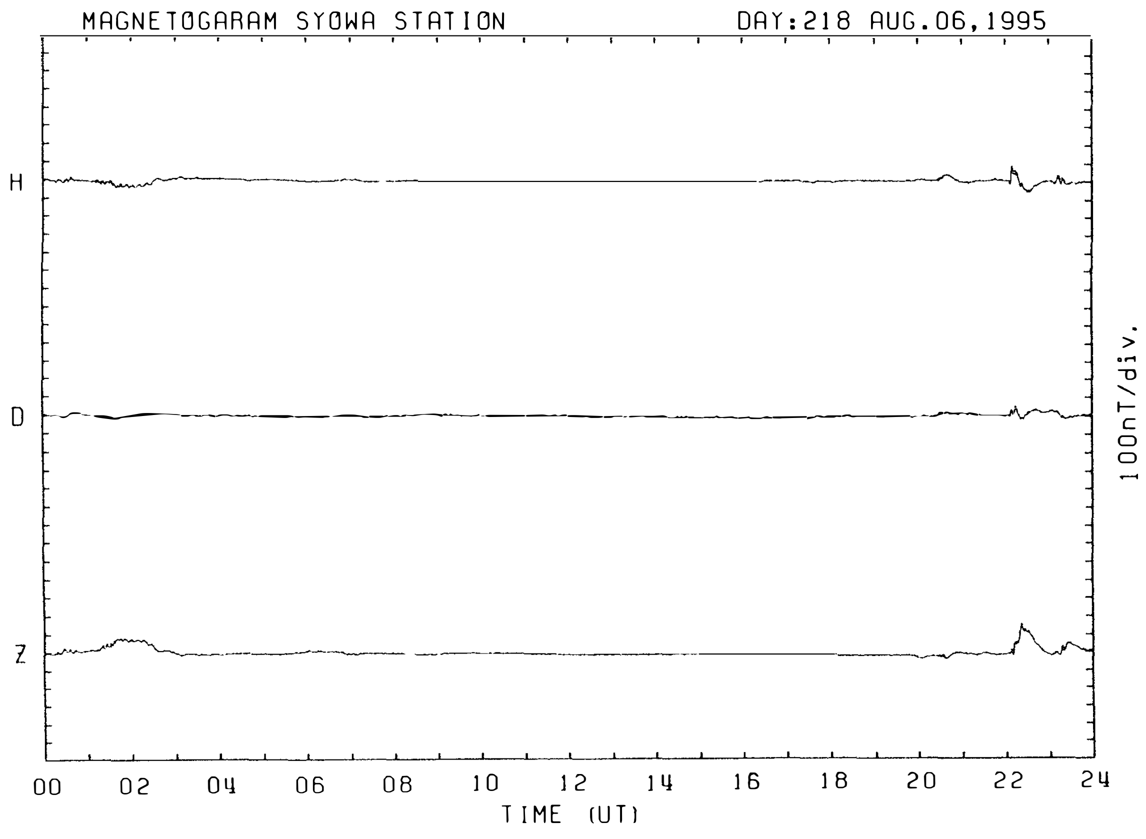
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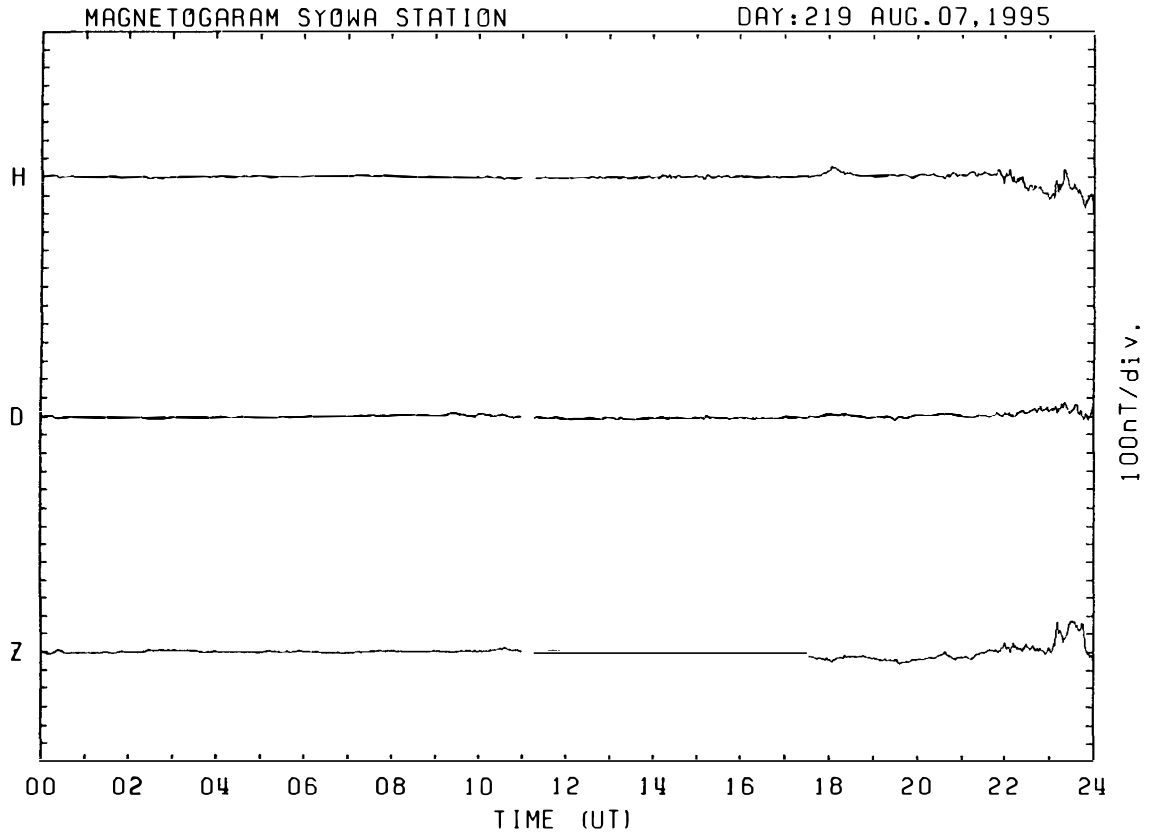
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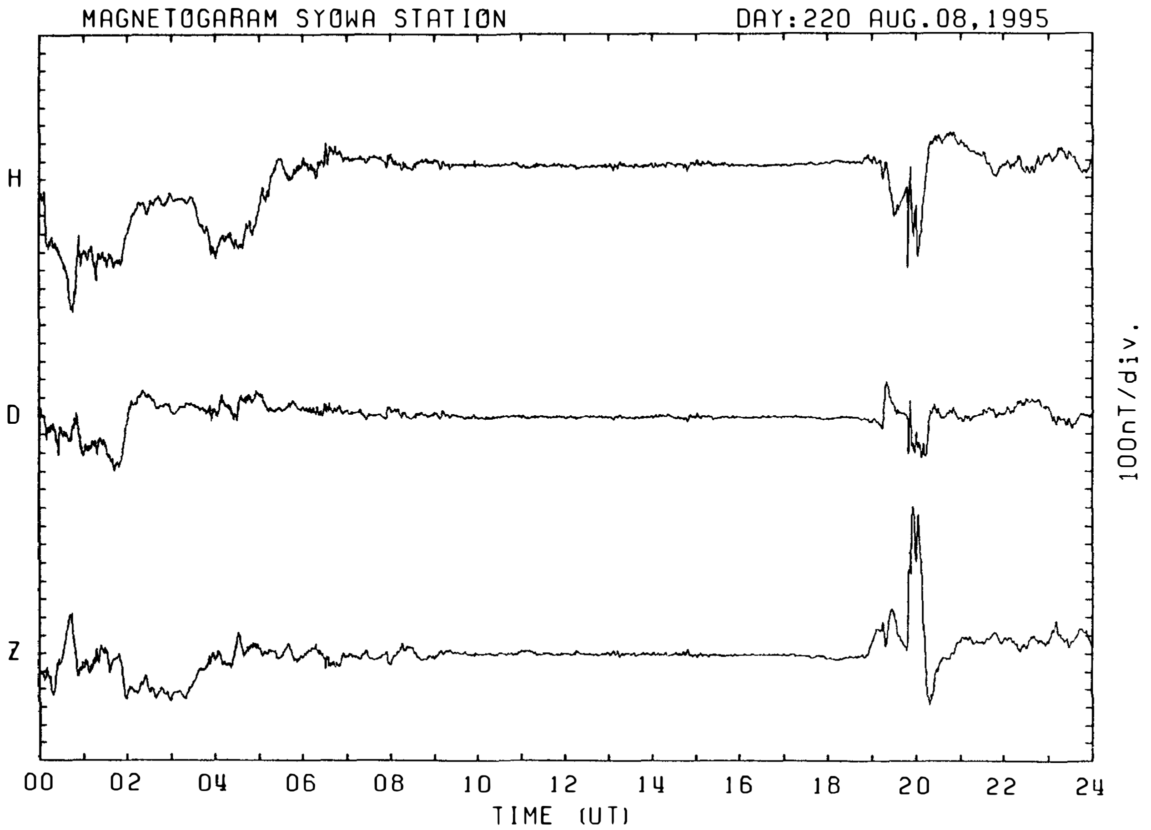
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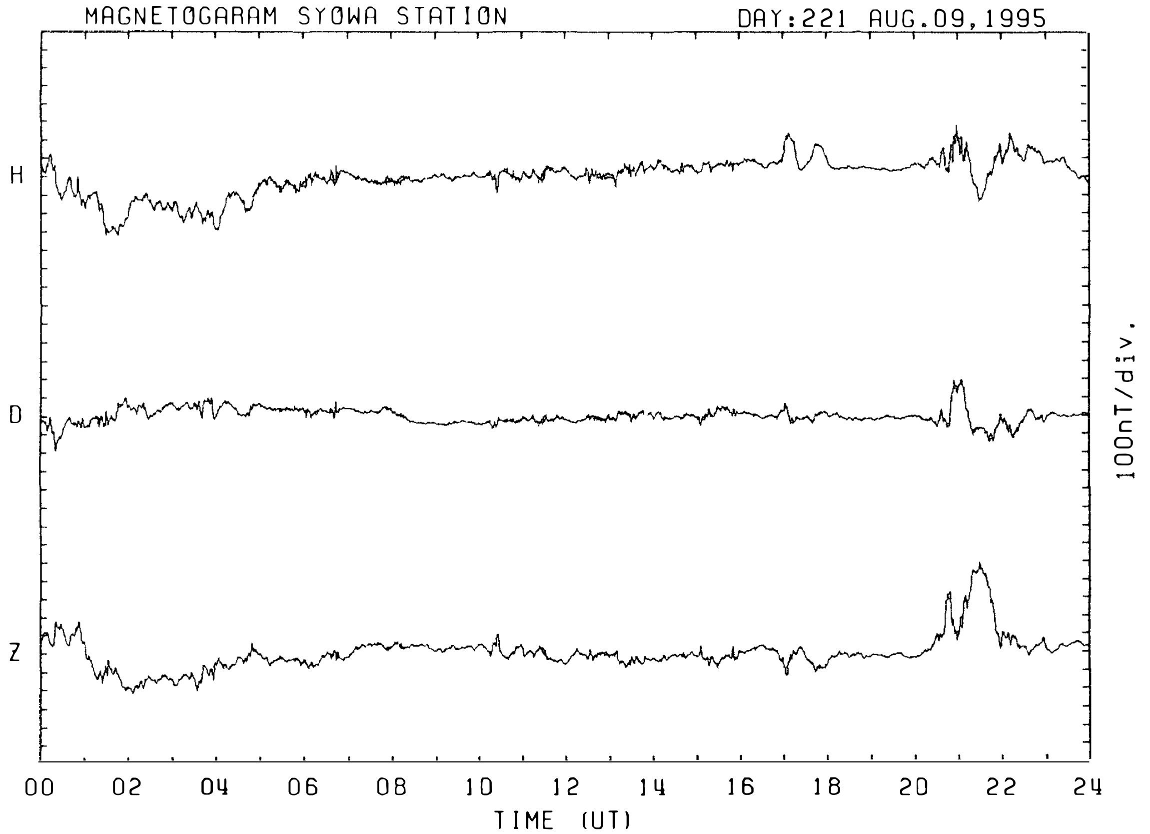
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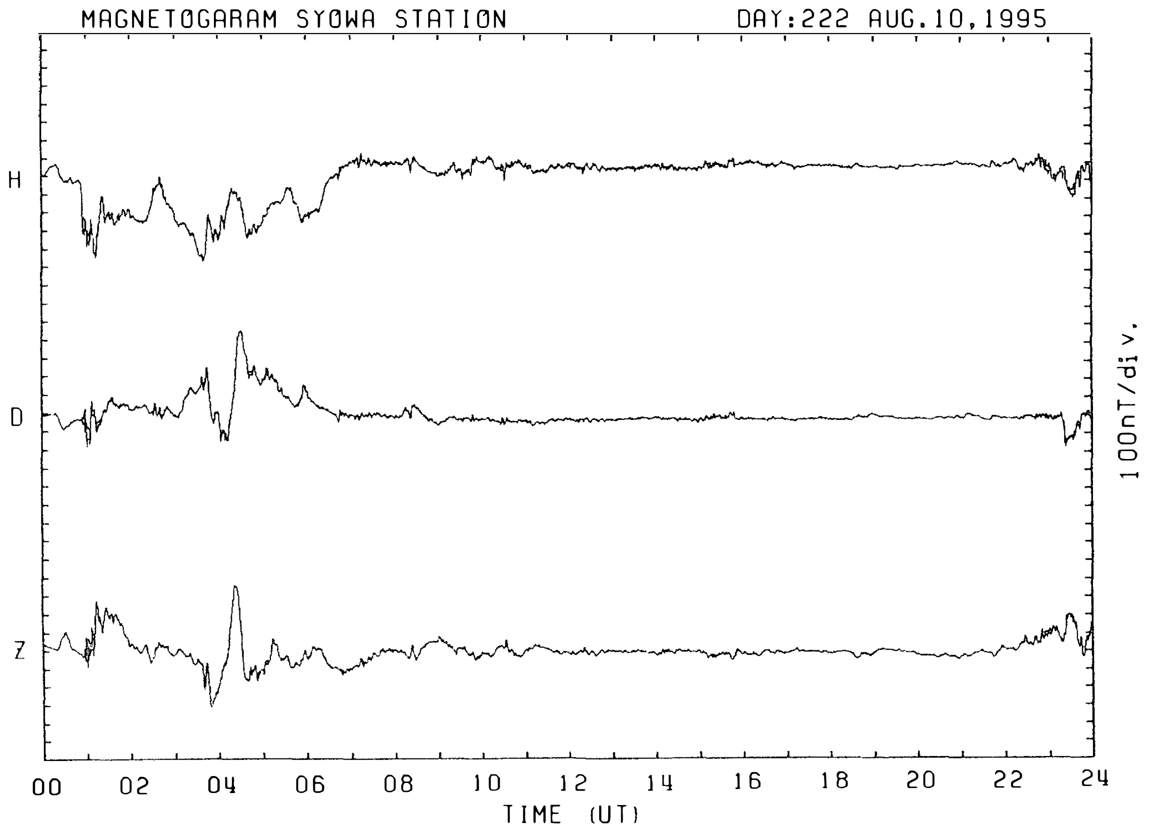
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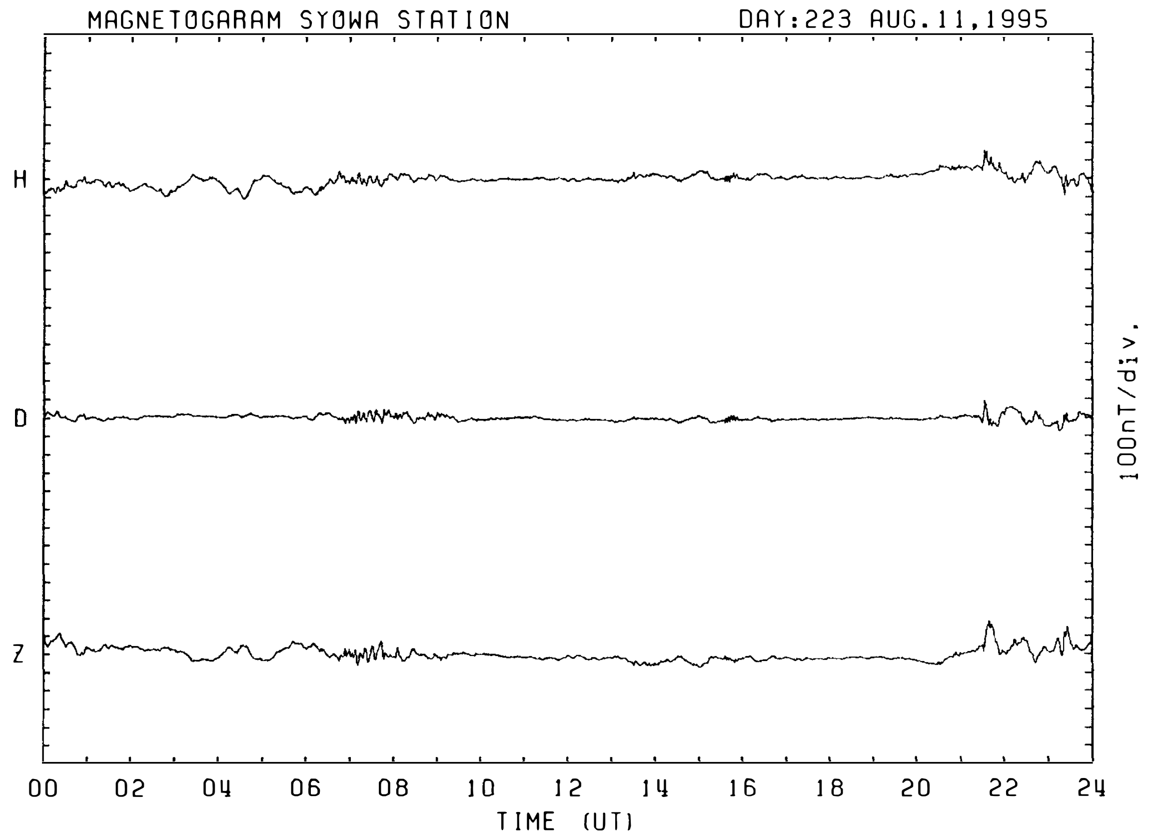
TIME (UT)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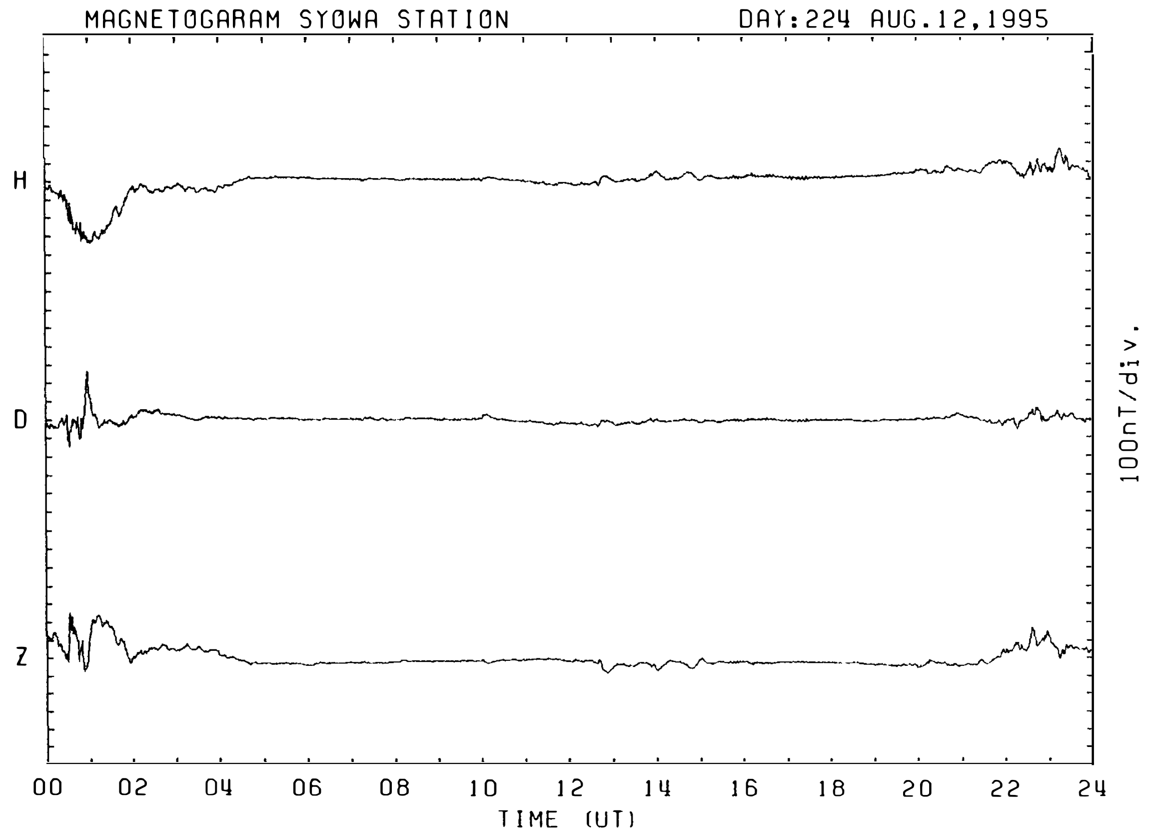
TIME (UT)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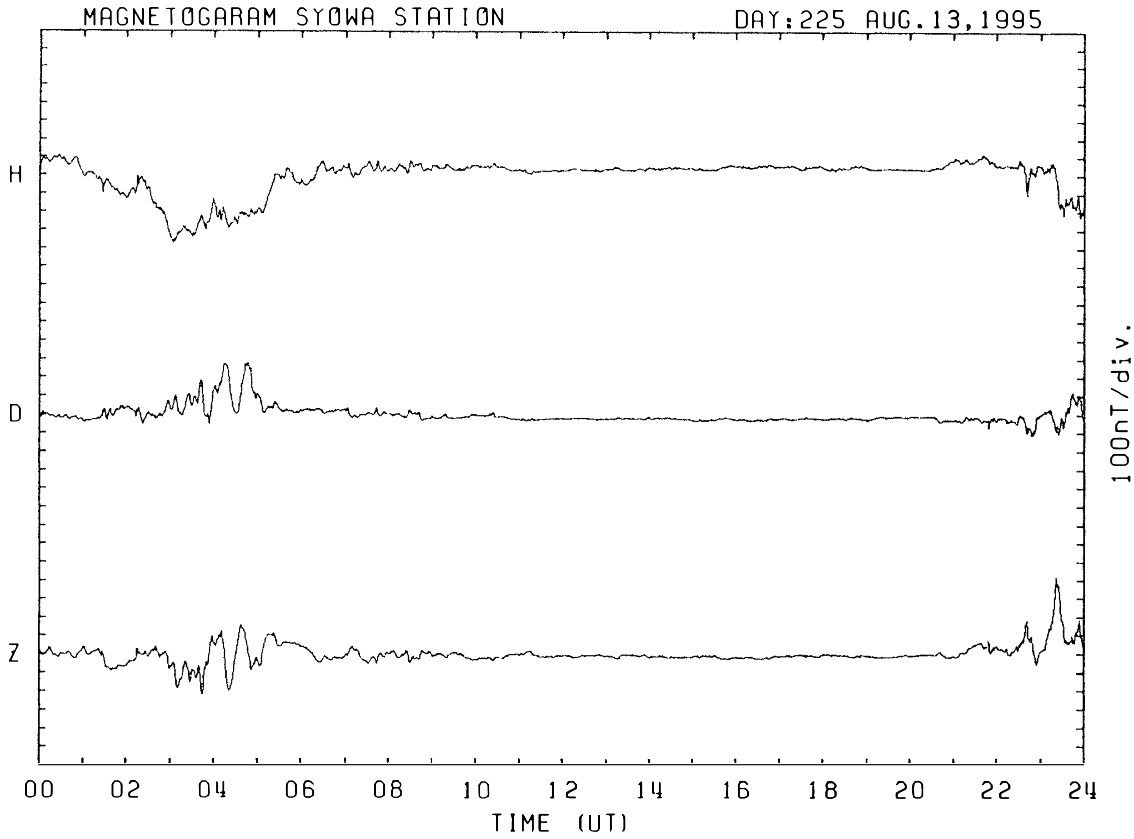
TIME (UT)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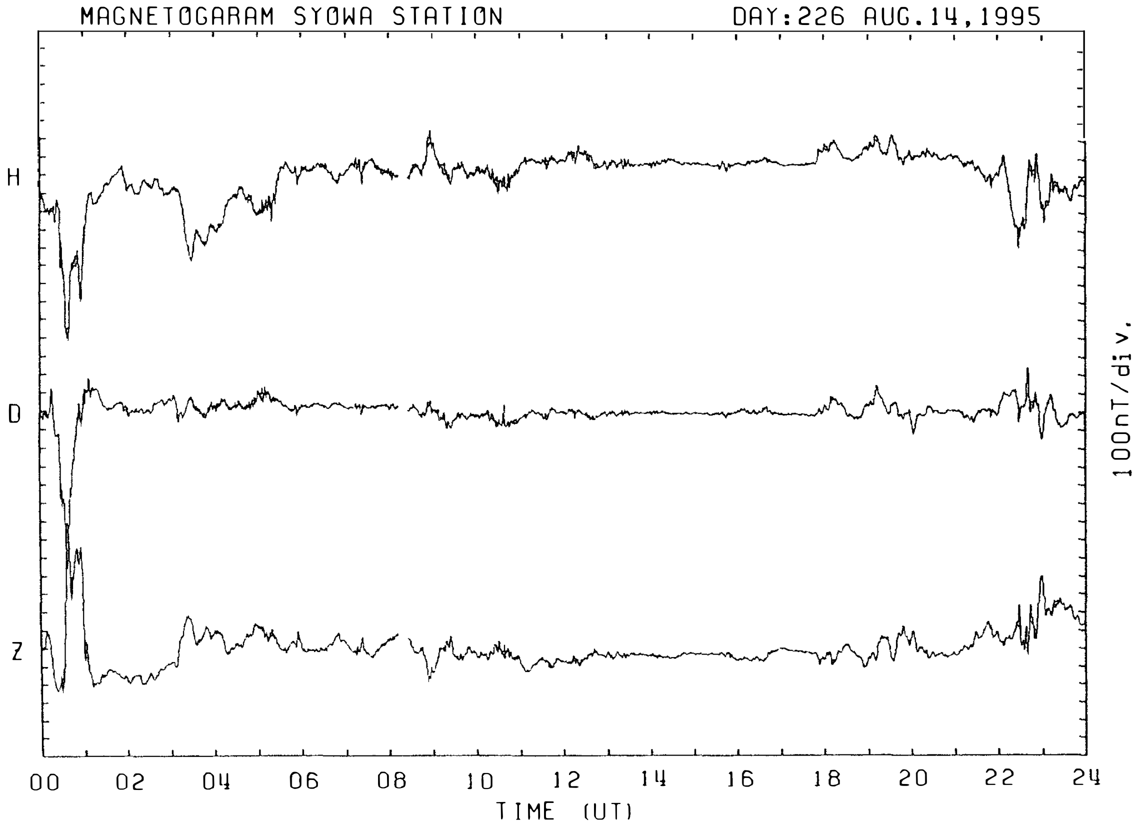
TIME (UT)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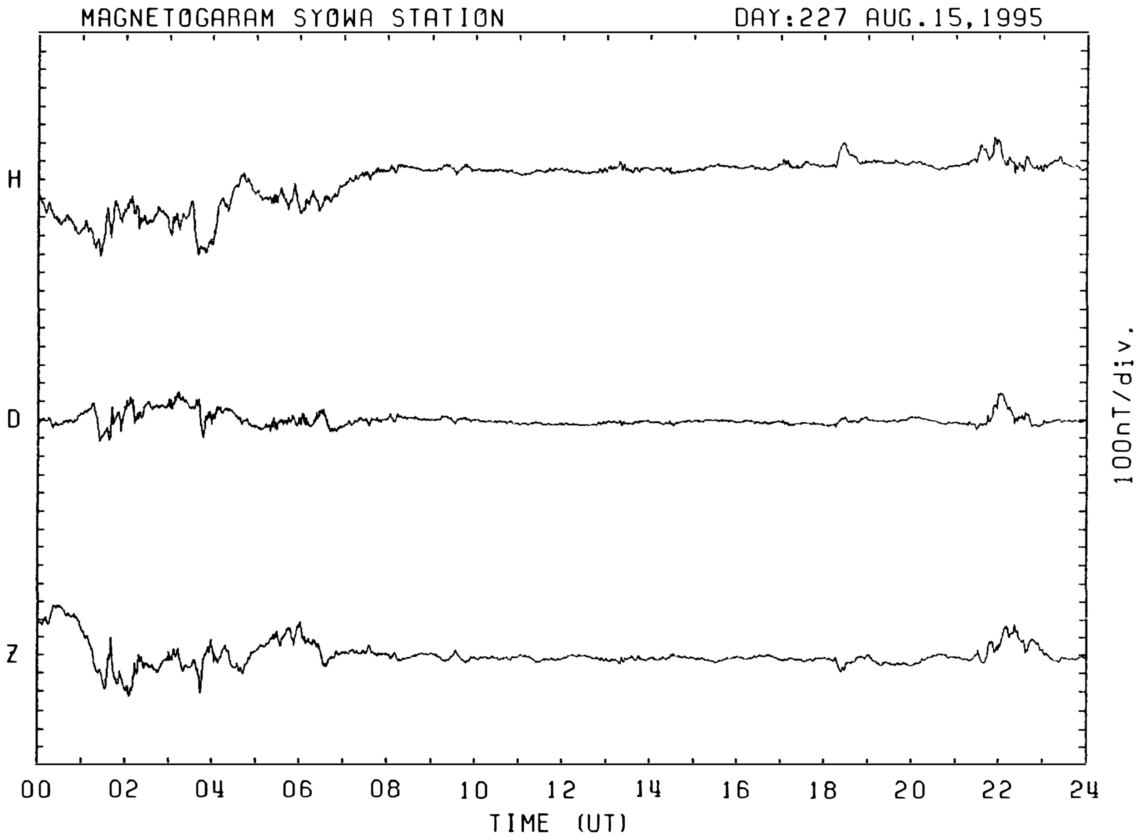
TIME (UT)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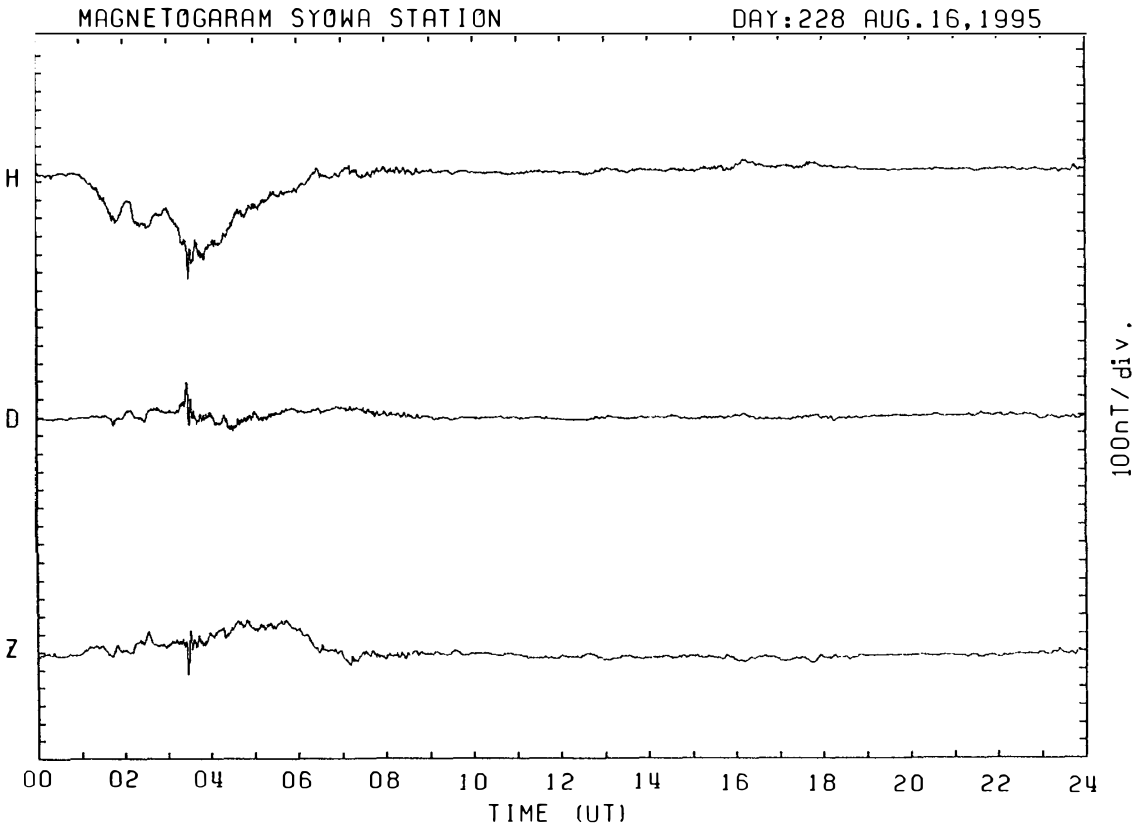
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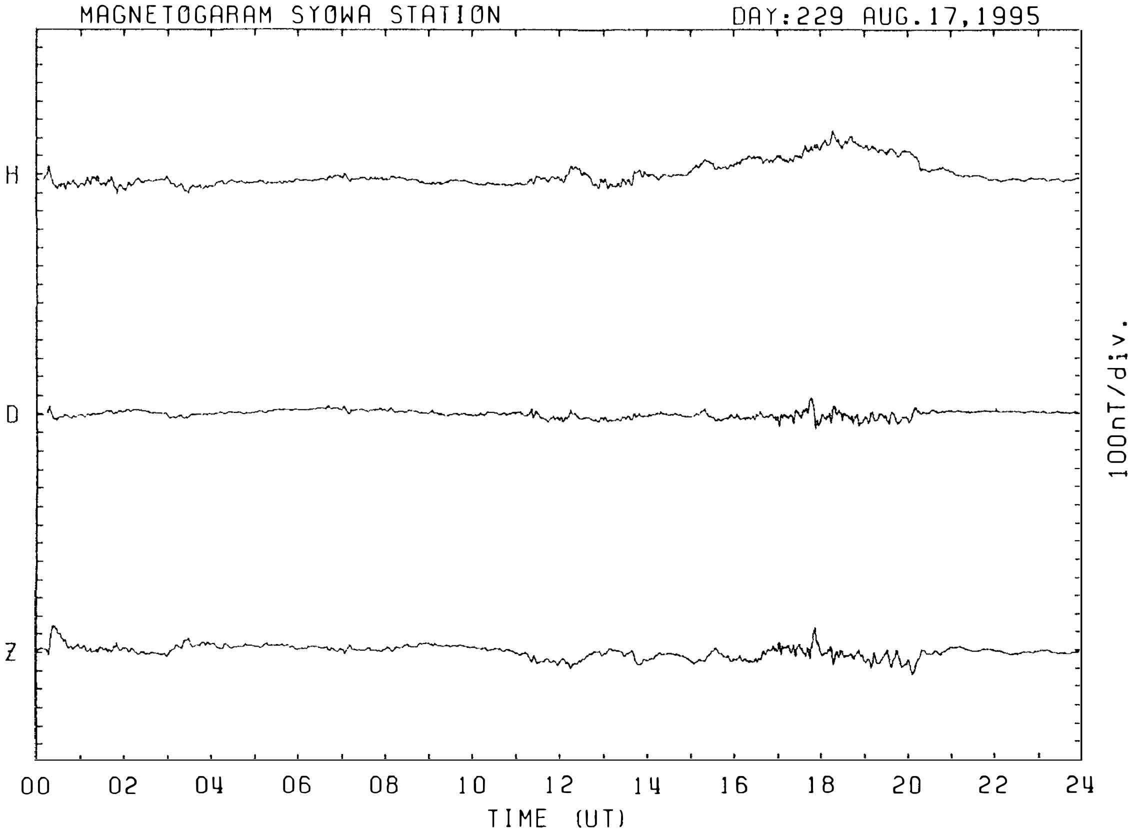
TIME (UT)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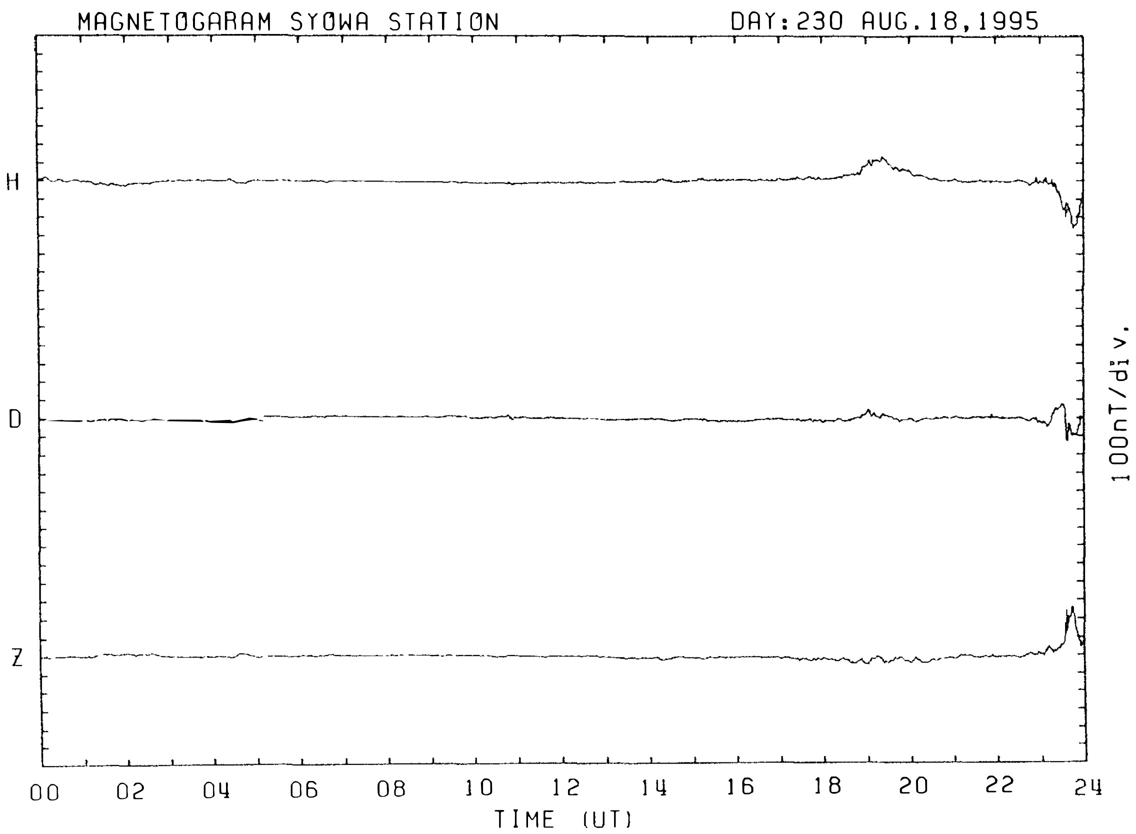
TIME (UT)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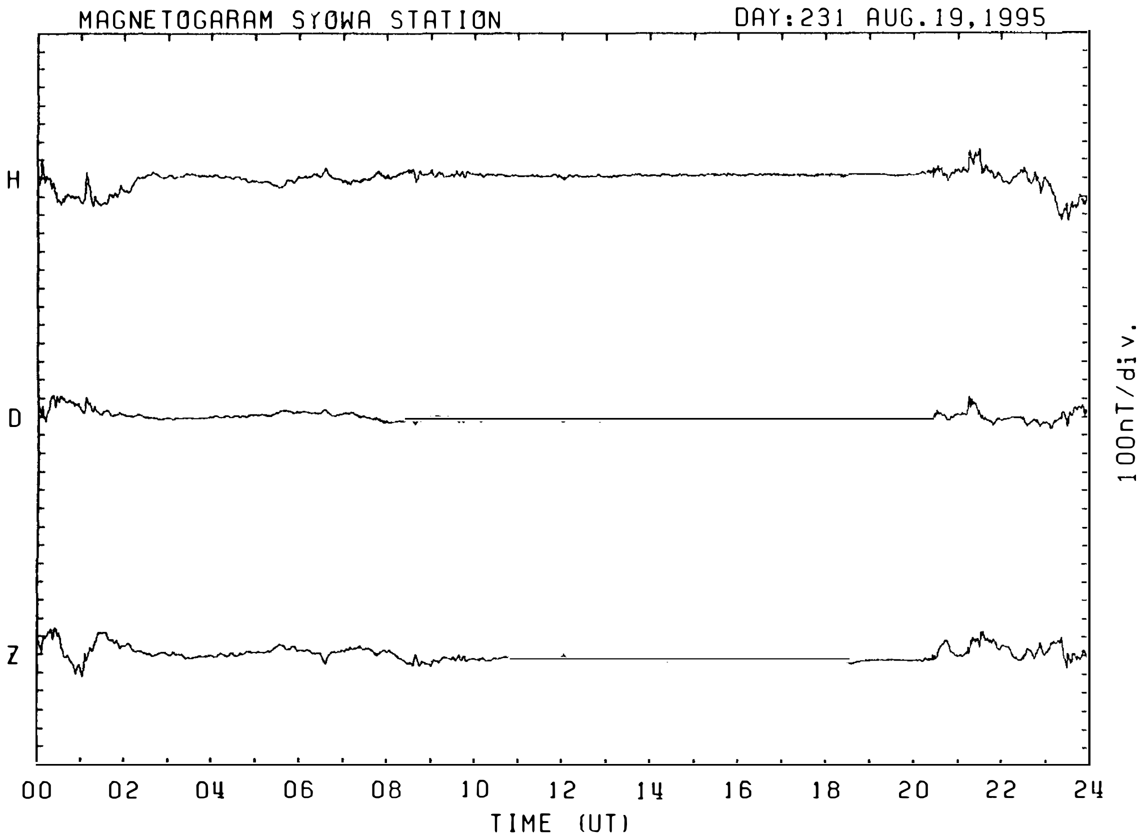
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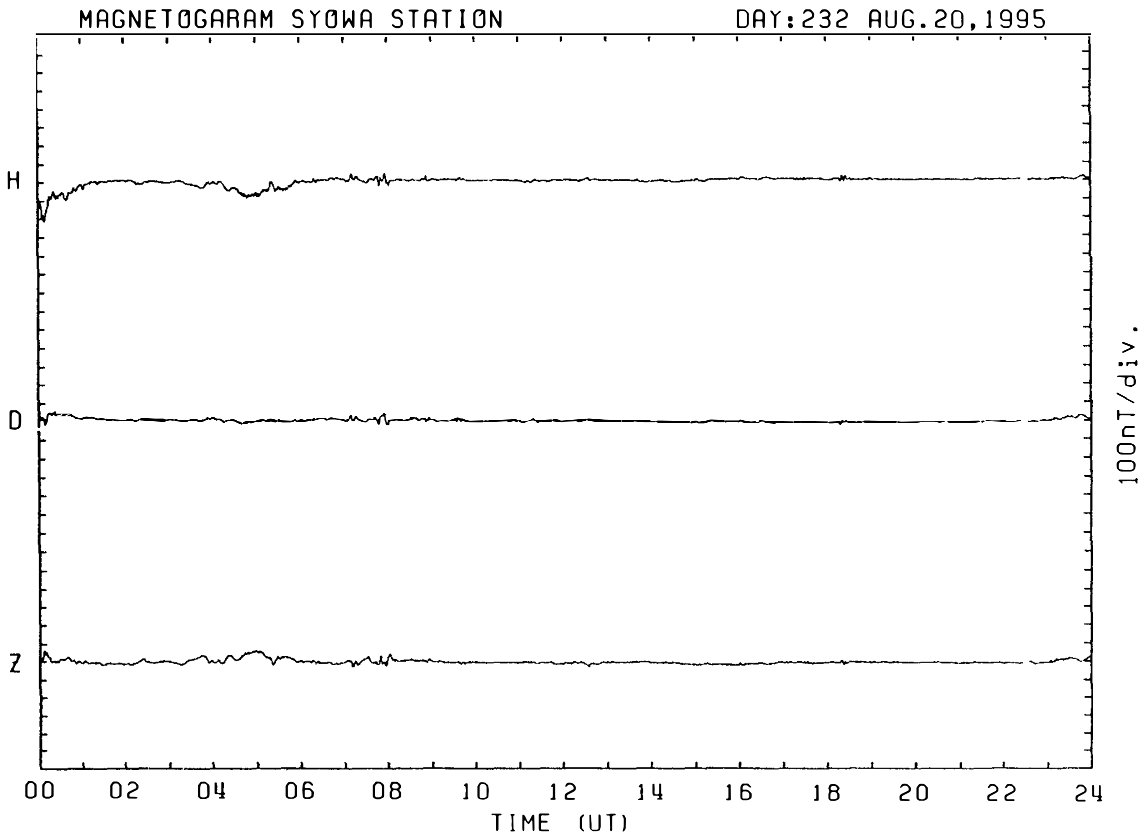
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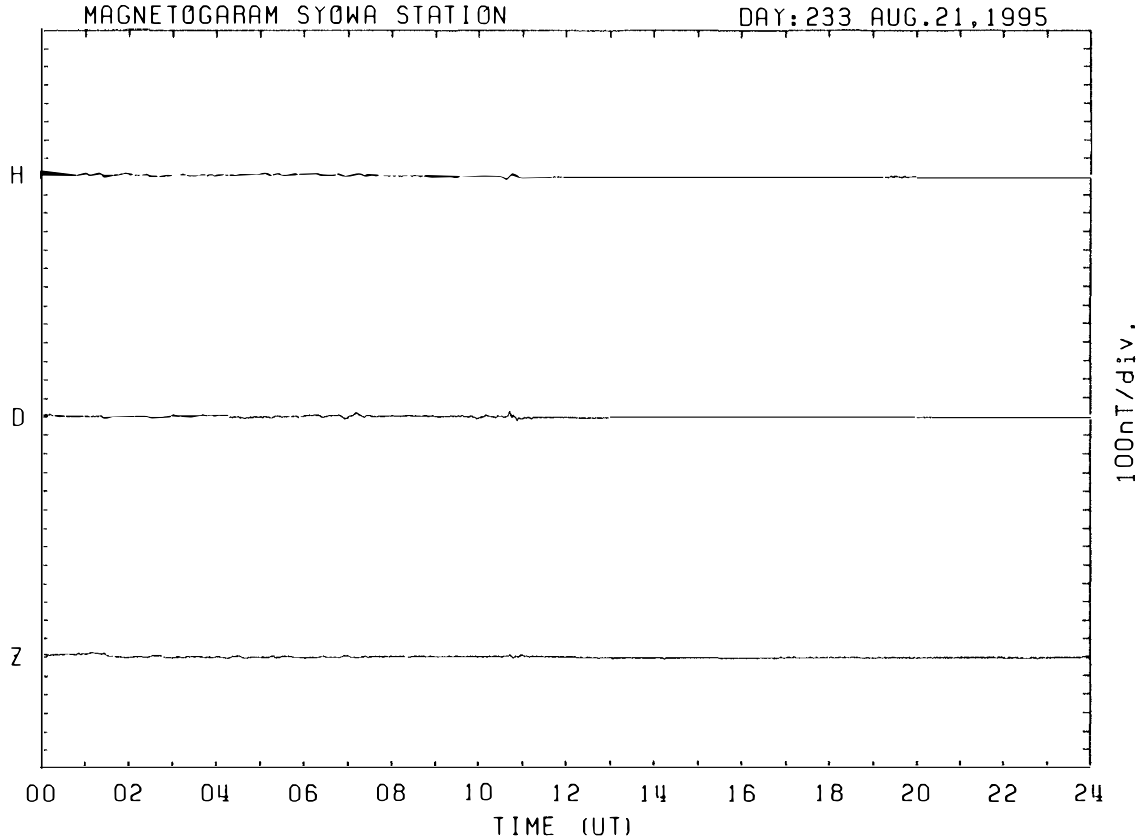
TIME (UT)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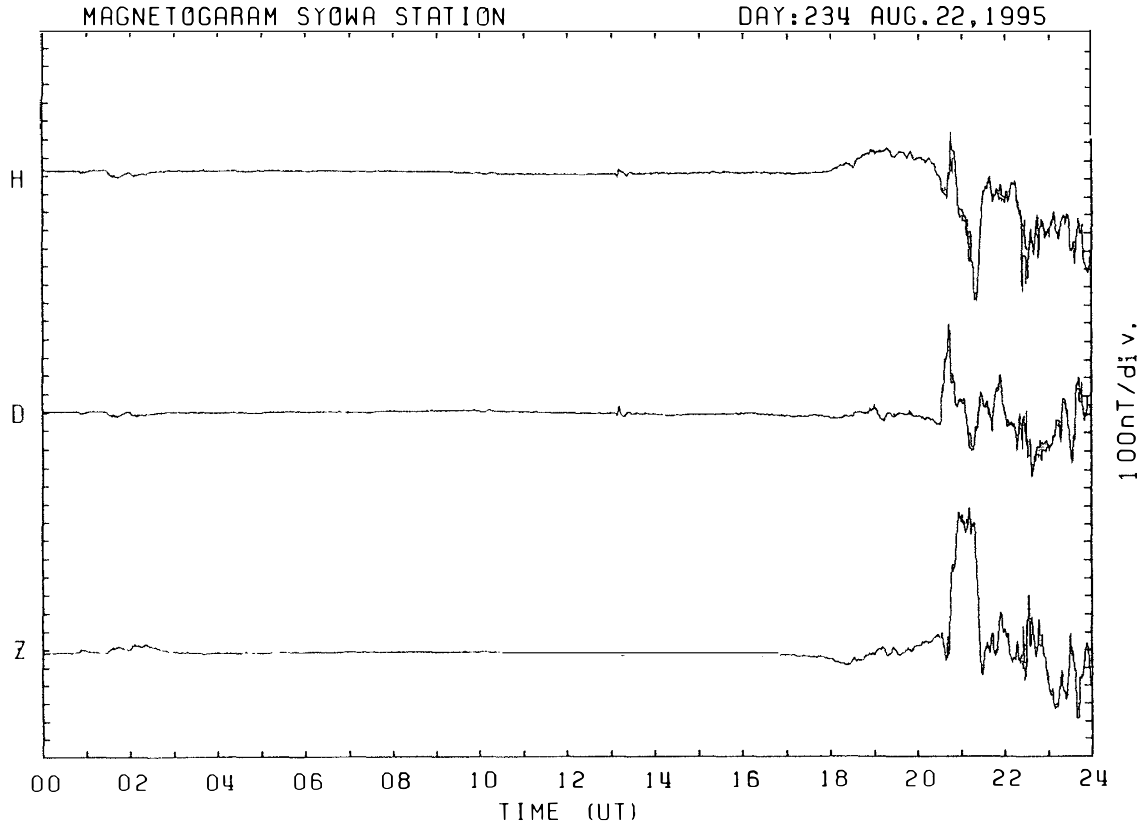
TIME (UT)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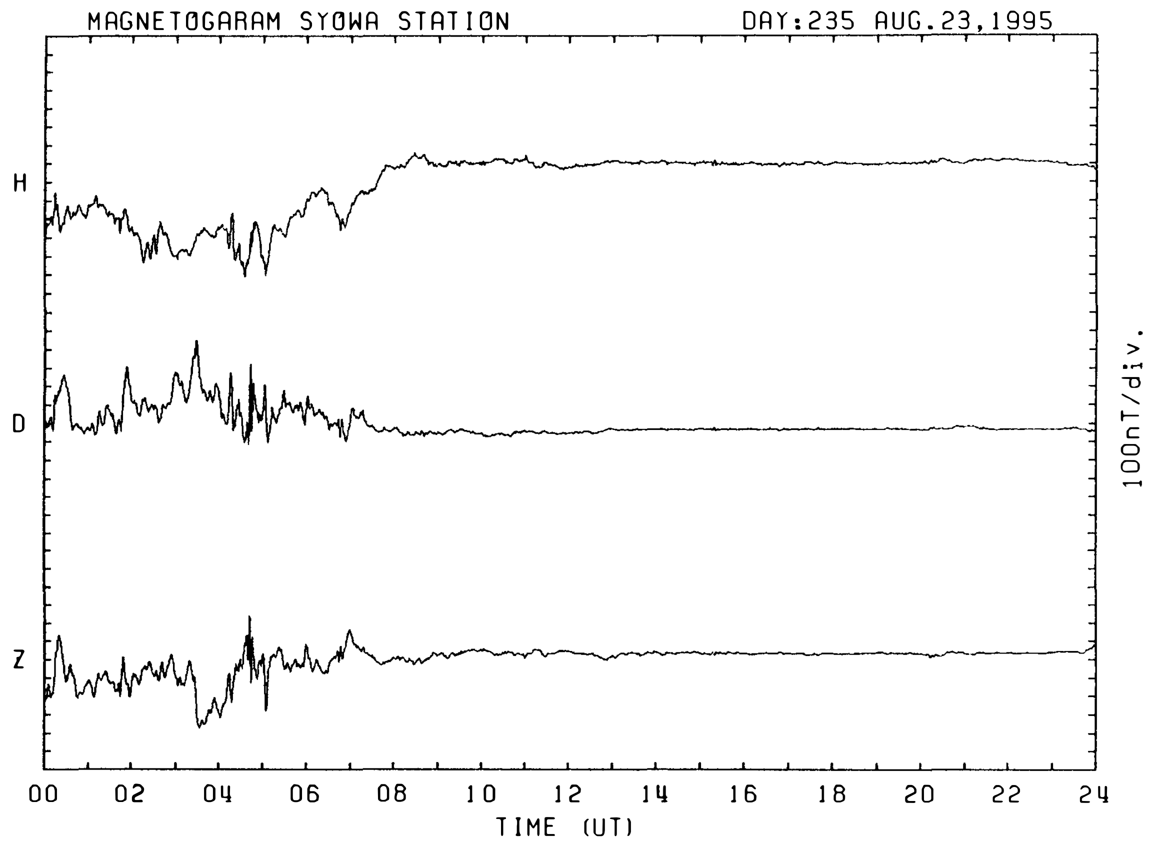
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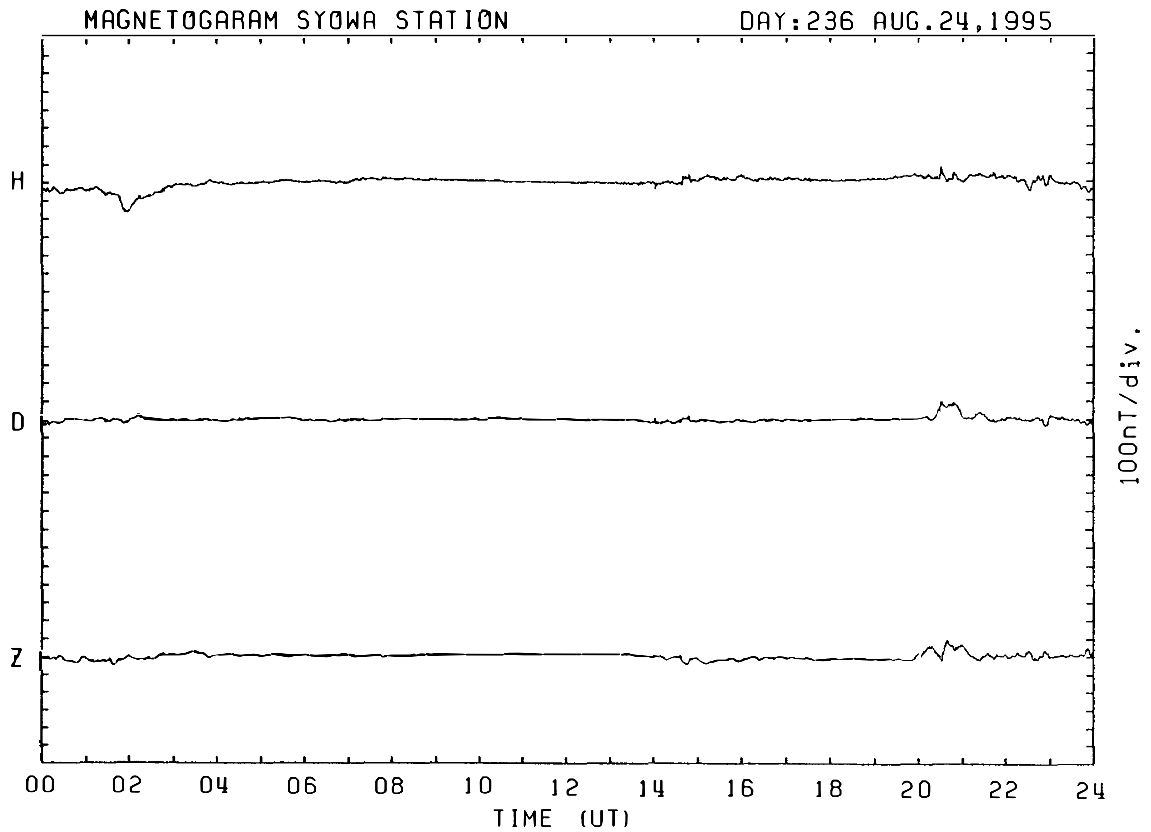
TIME (UT)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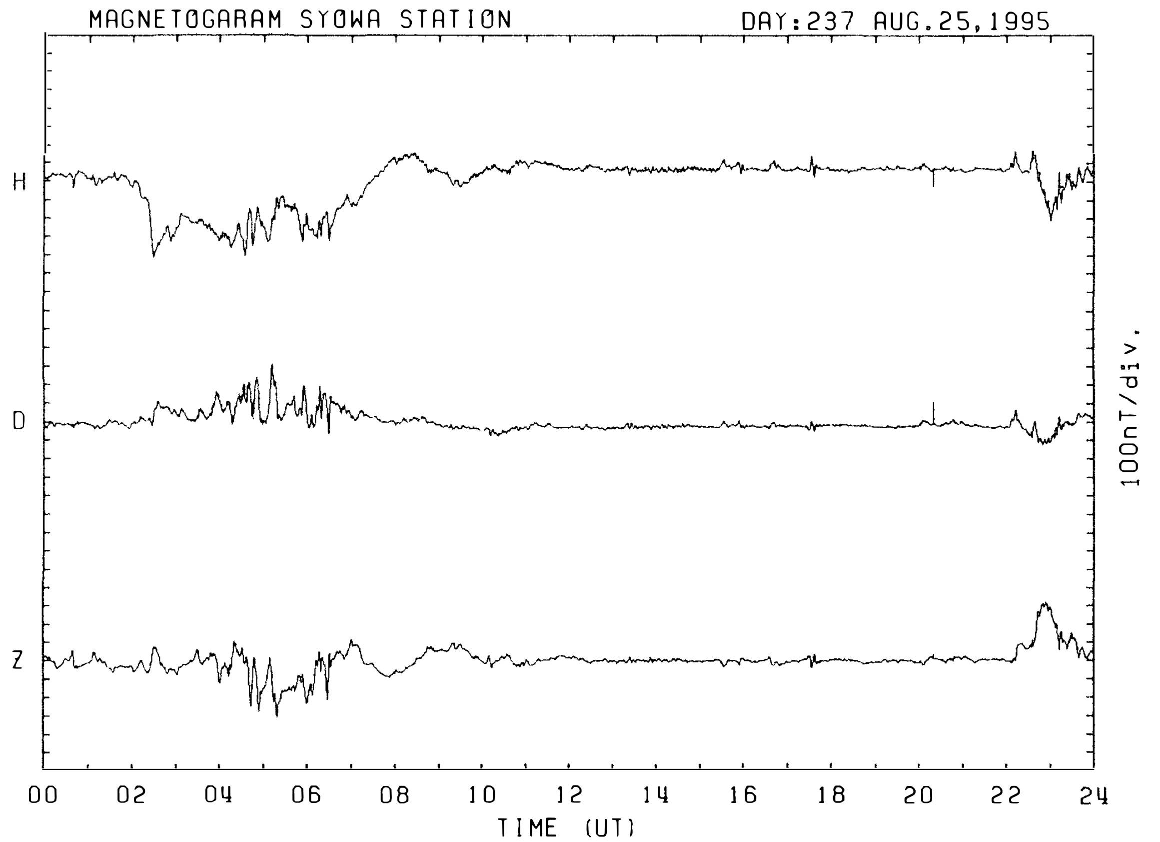
TIME (UT)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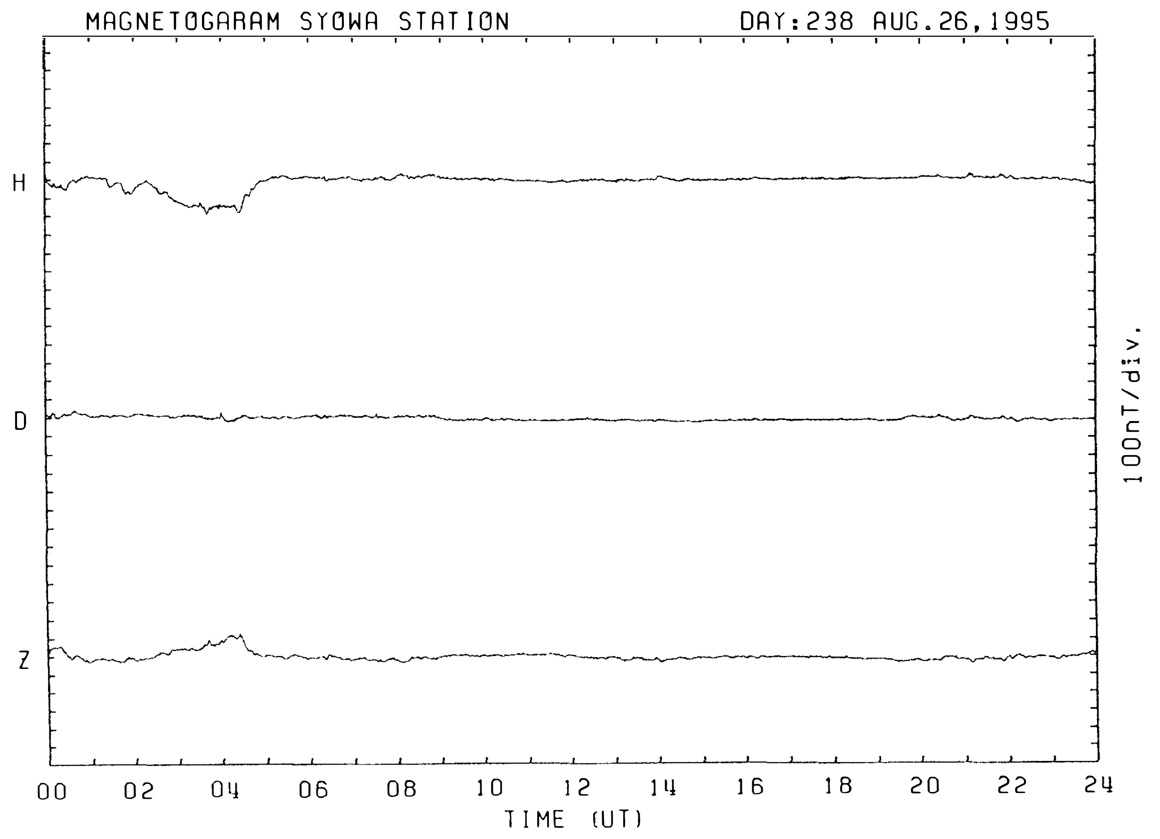
TIME (UT)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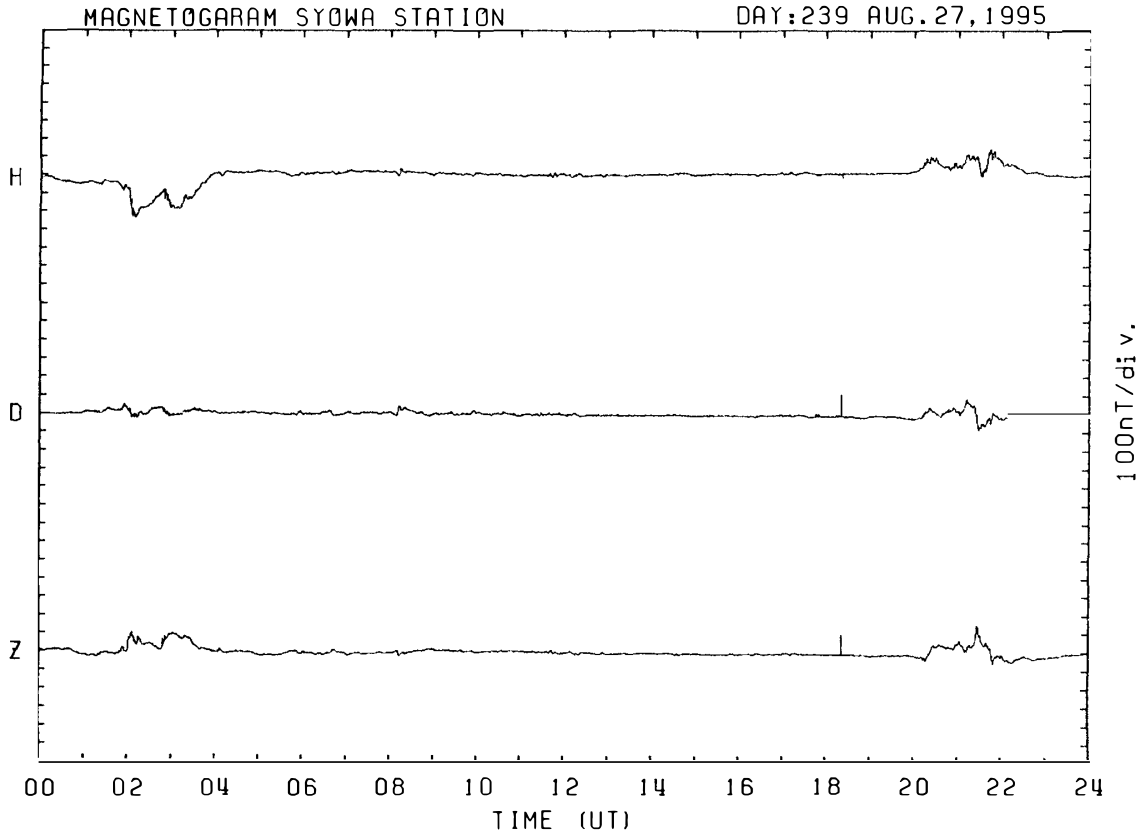
TIME (UT)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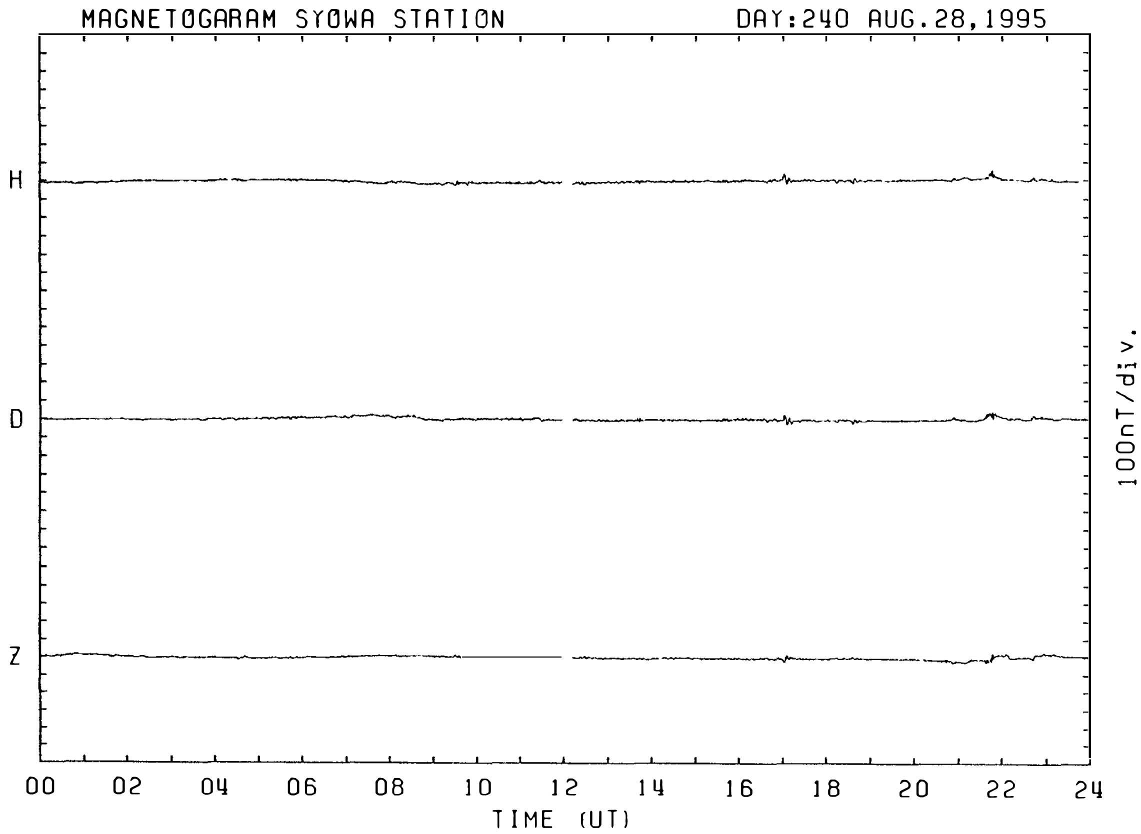
TIME (UT)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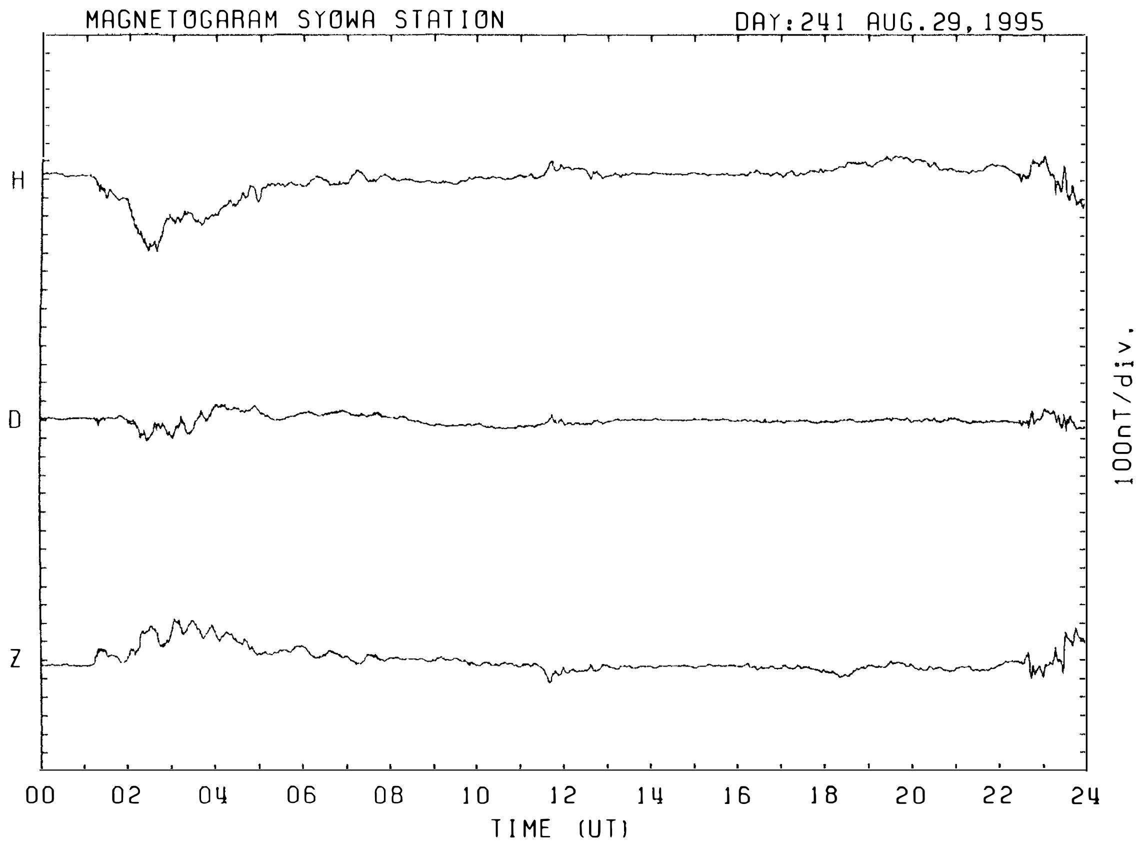
TIME (UT)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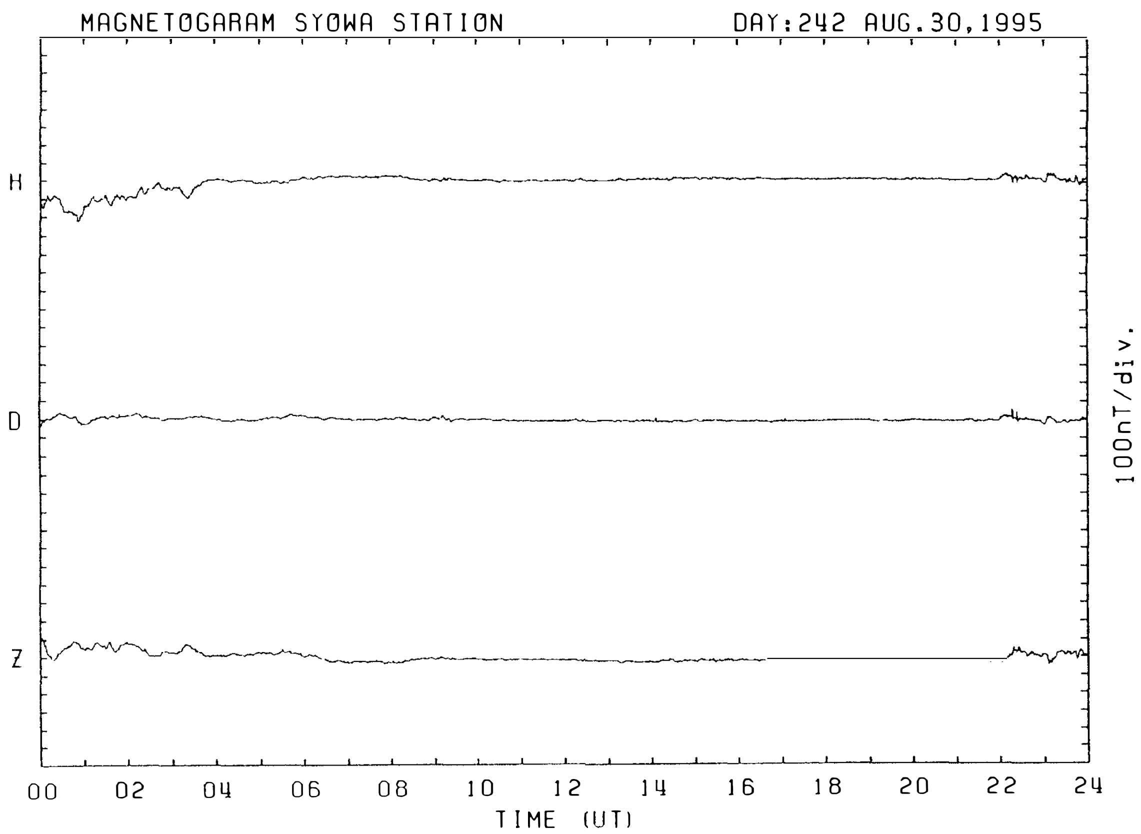
TIME (UT)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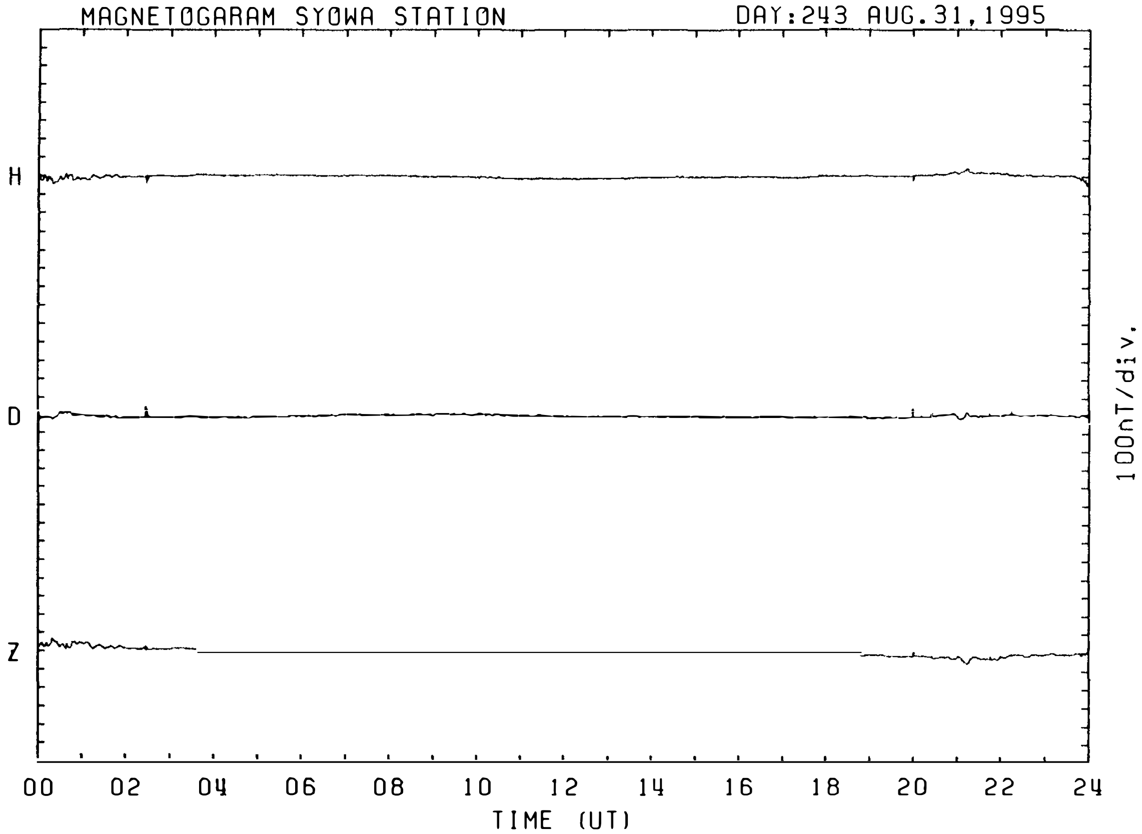
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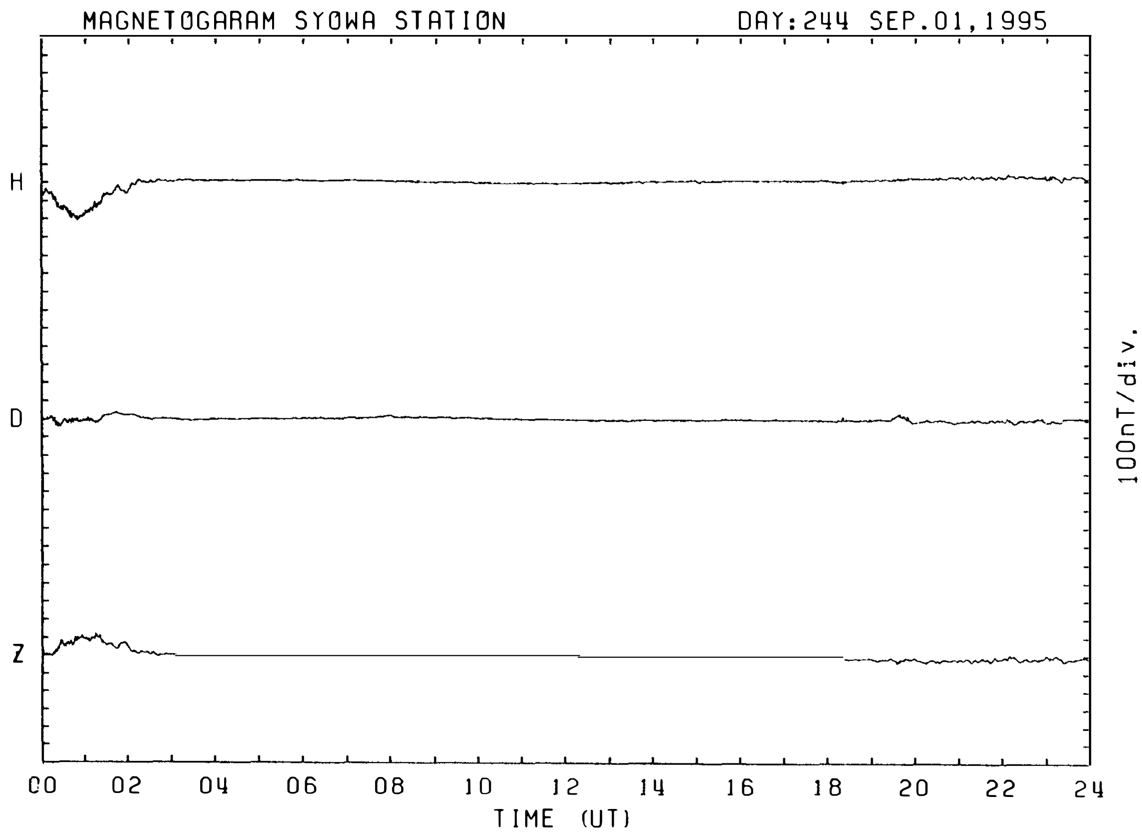
TIME (UT)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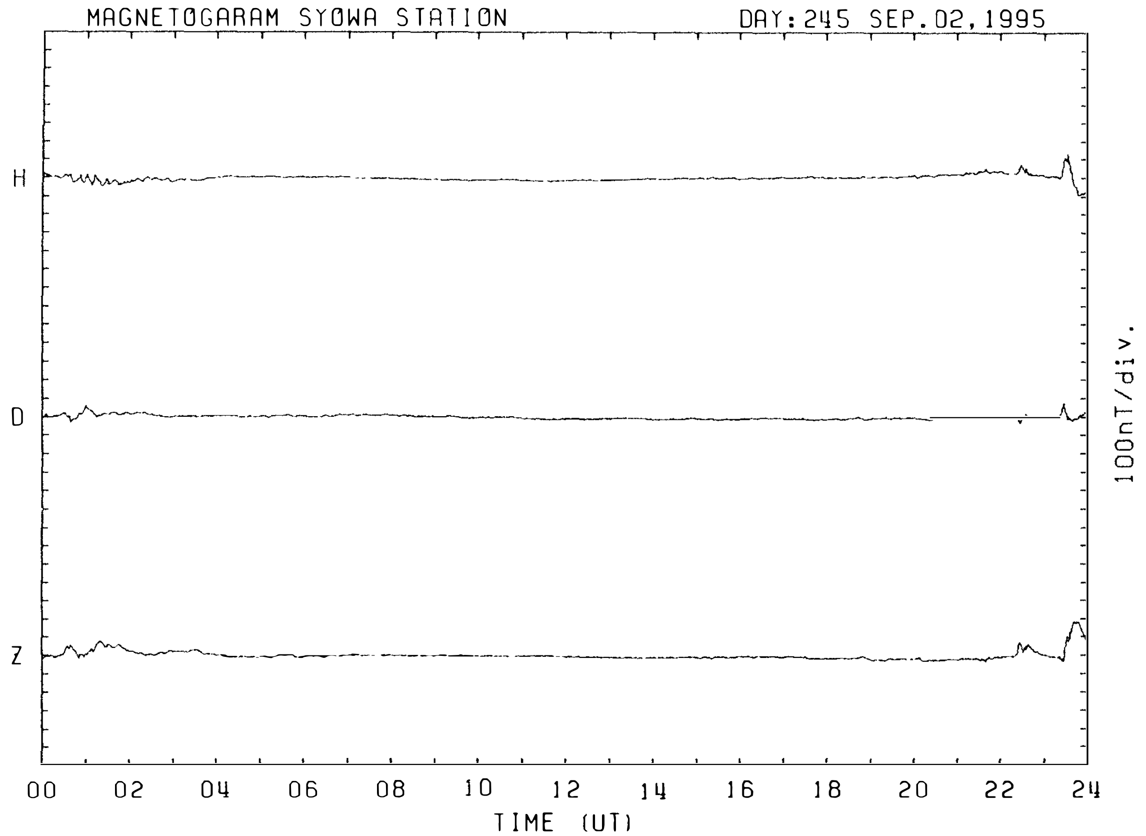
TIME (UT)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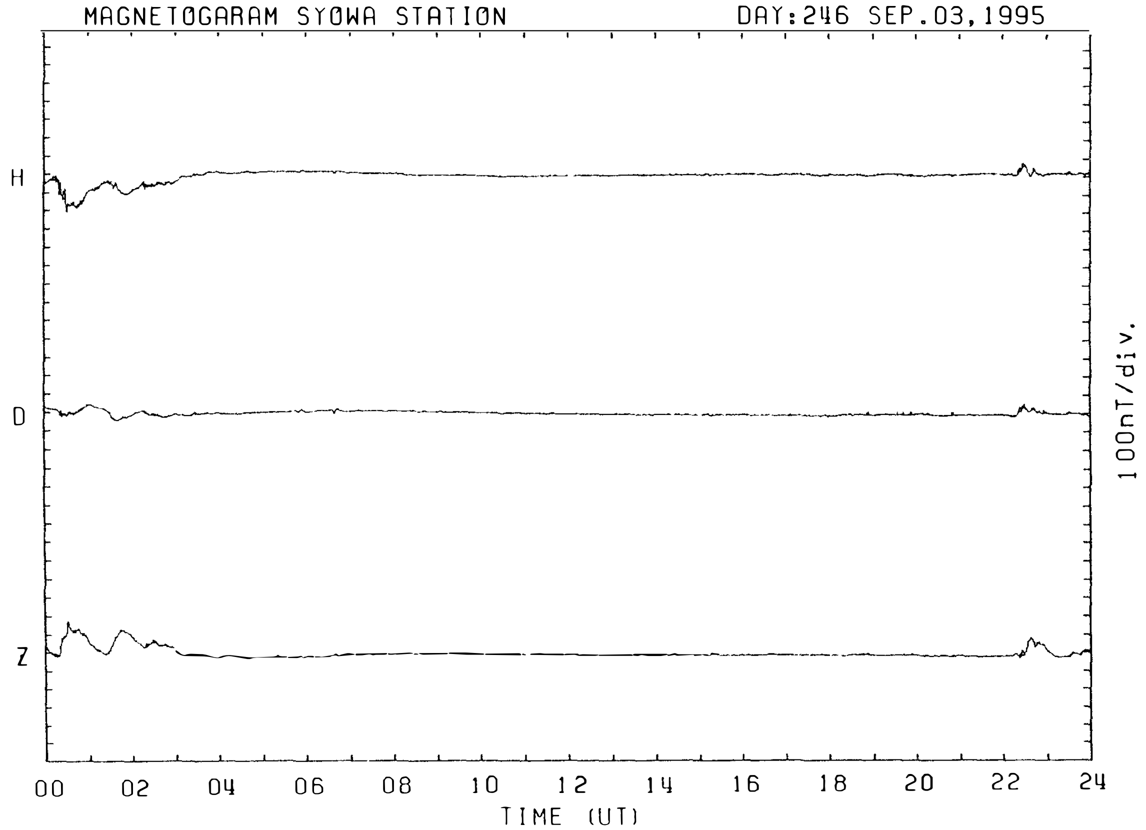
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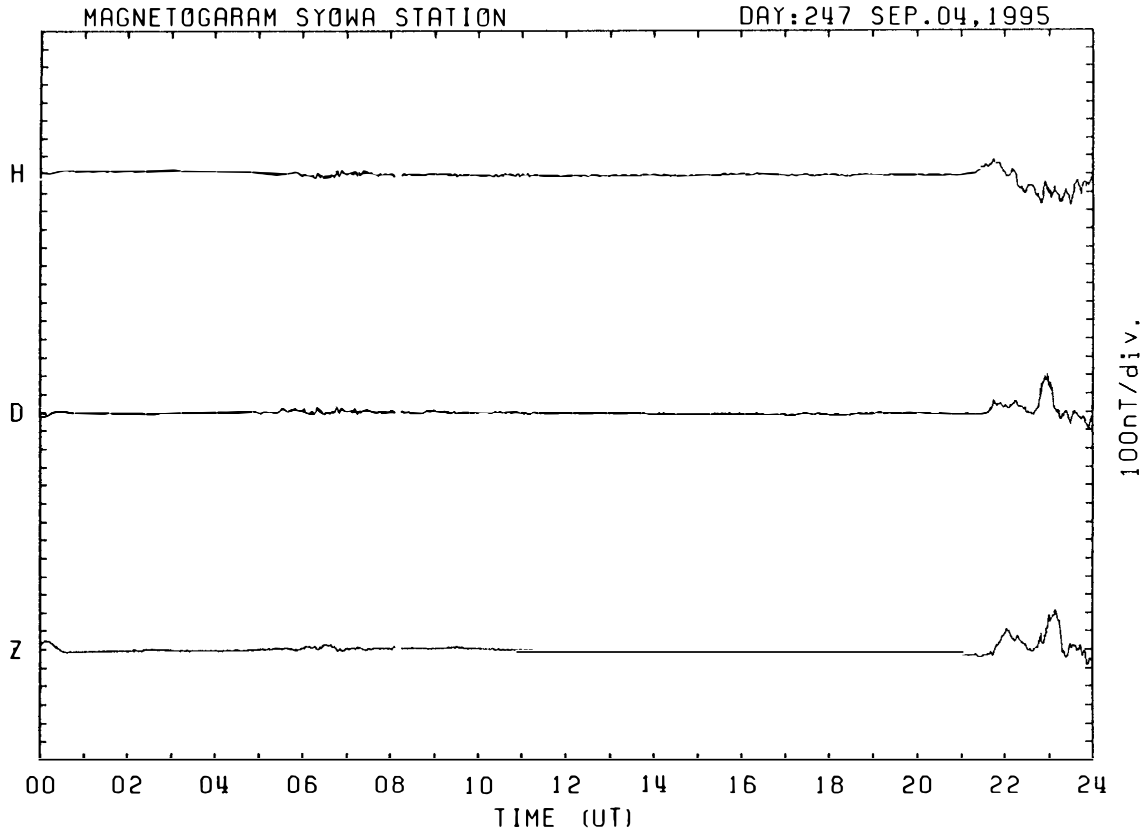
TIME (UT)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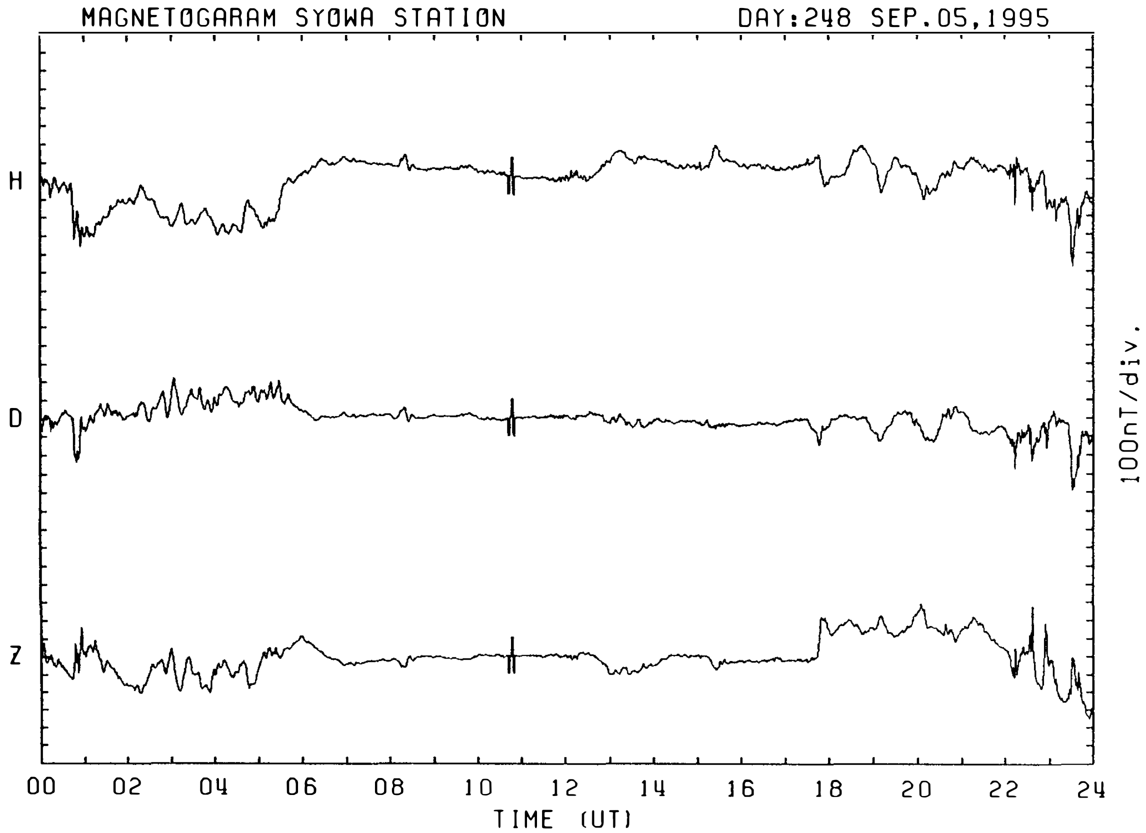
TIME (UT)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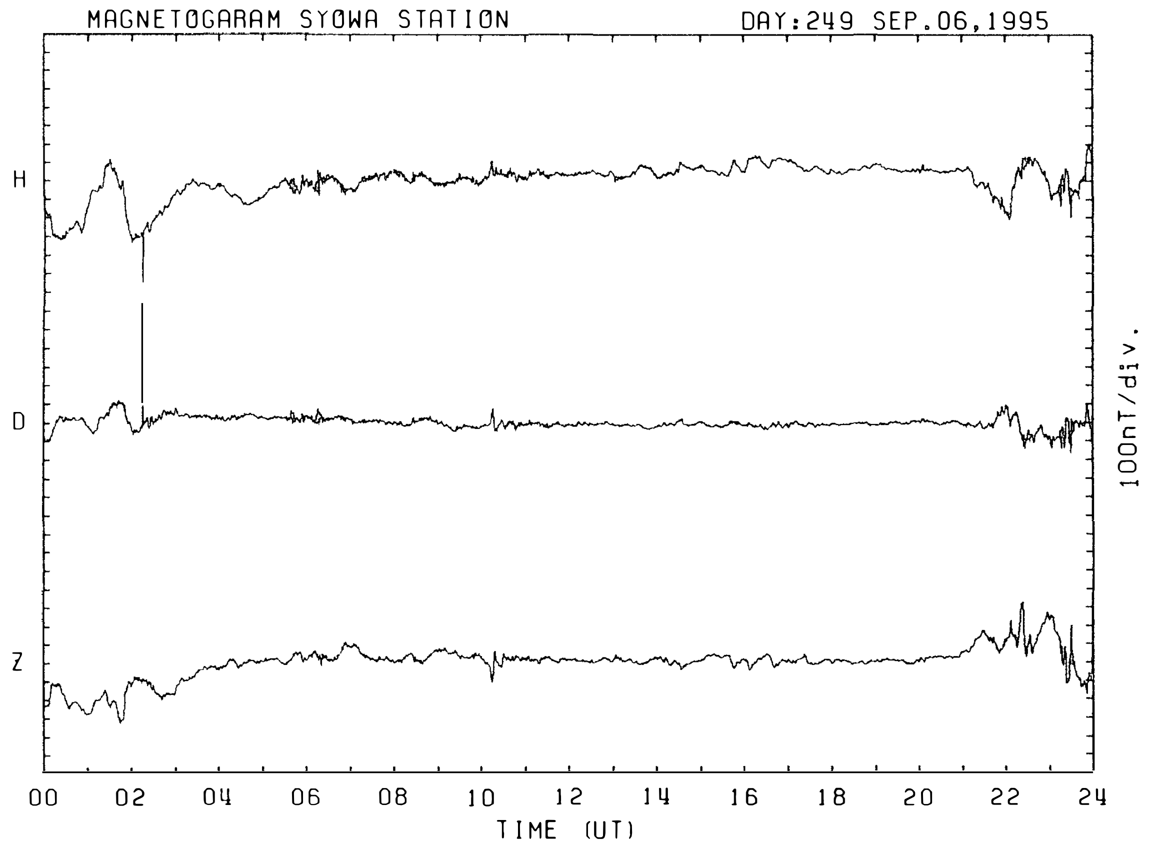
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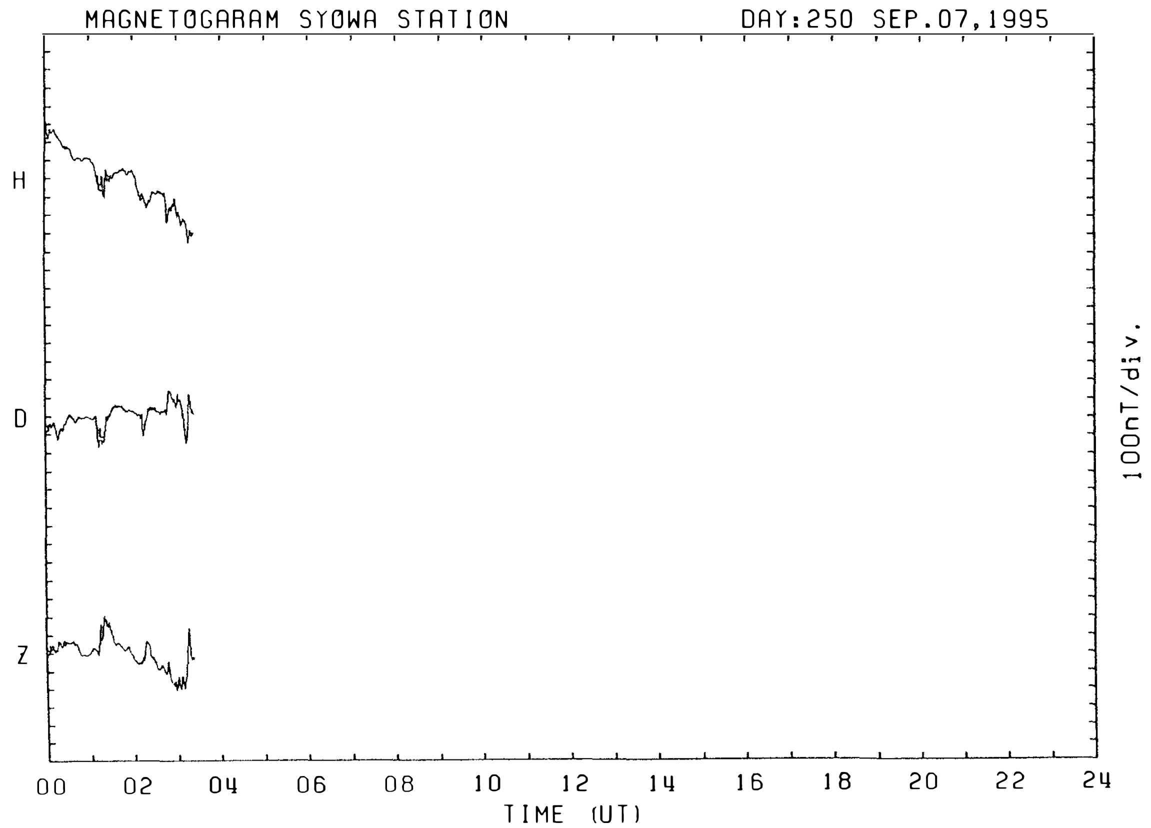
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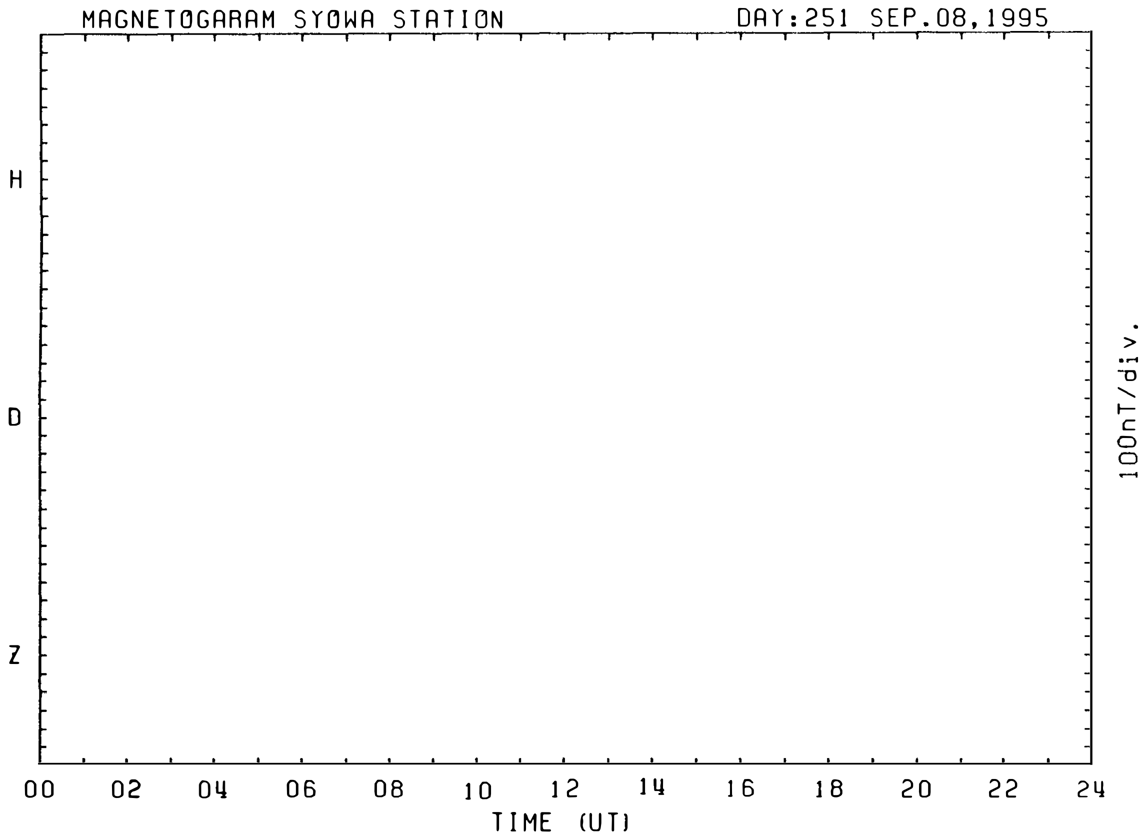
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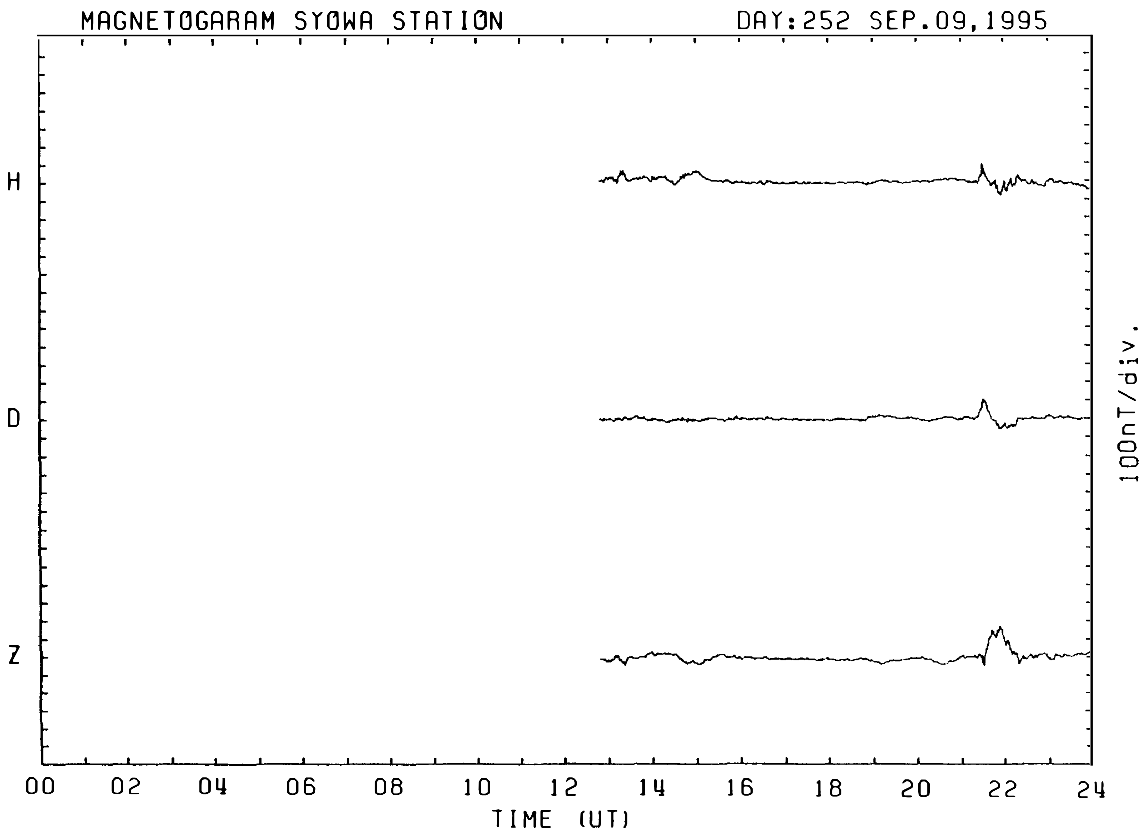
TIME (UT)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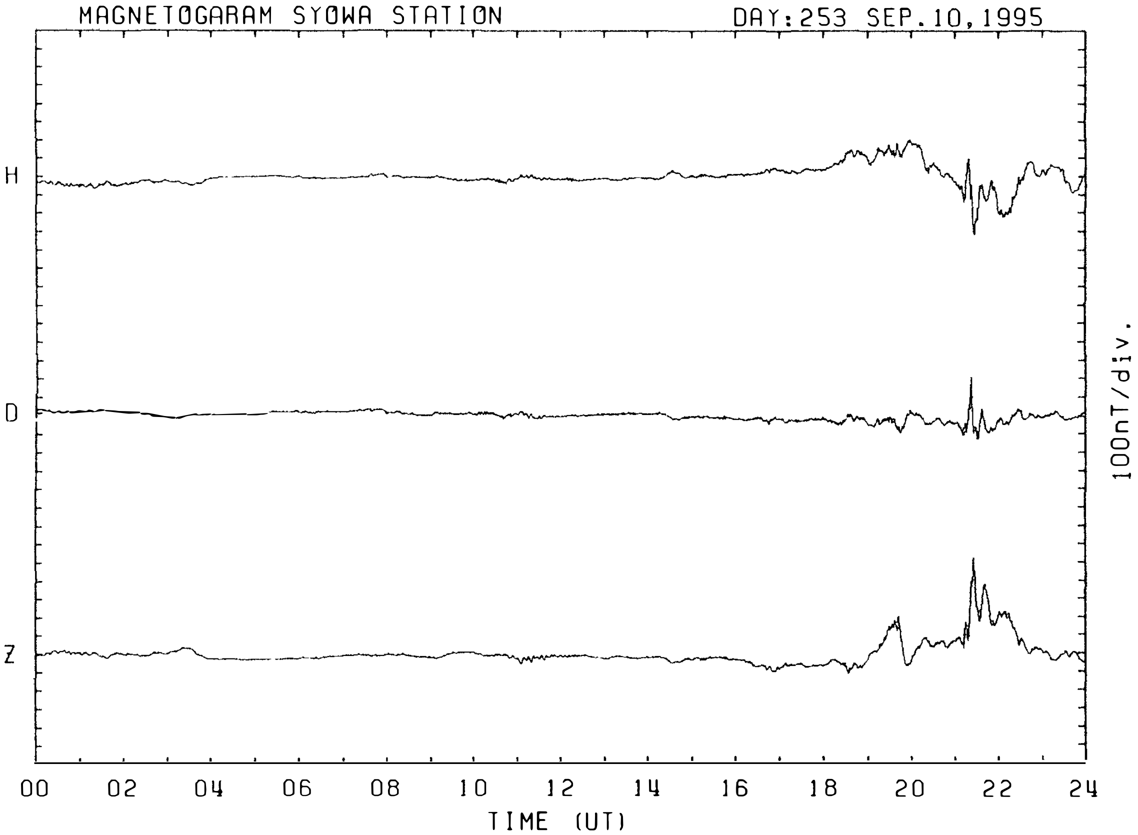
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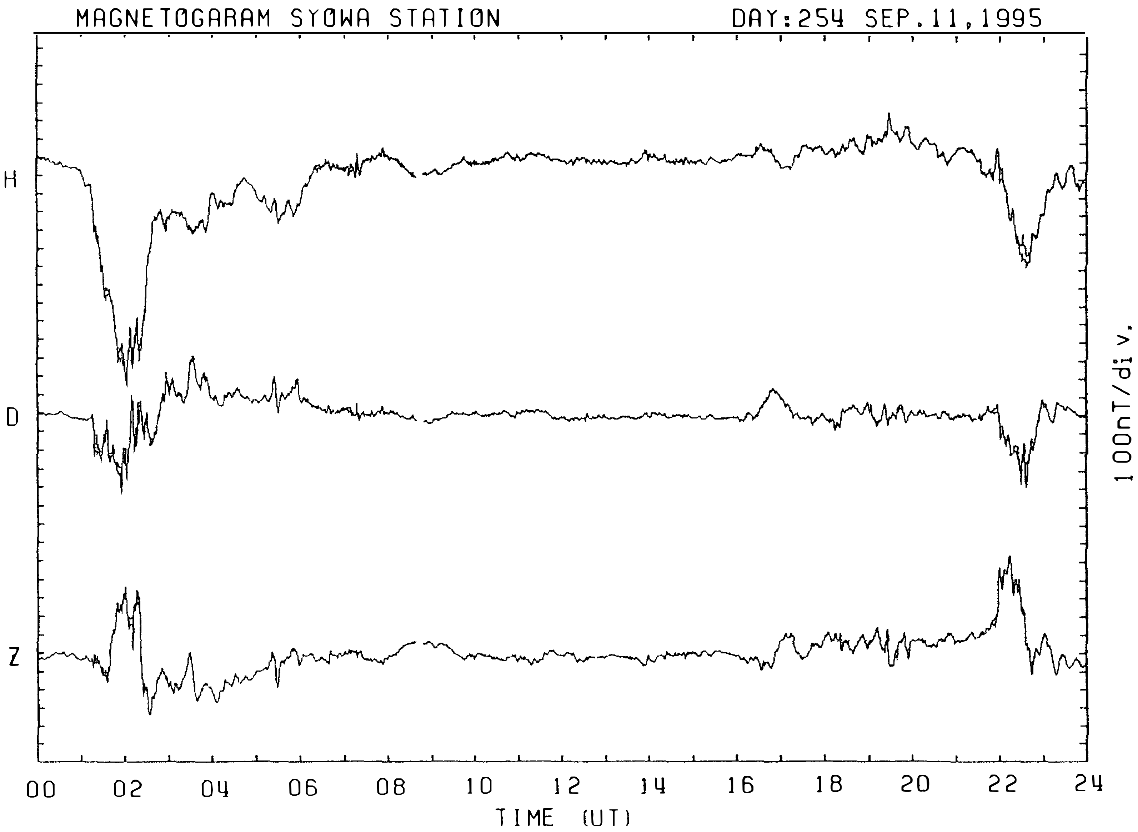
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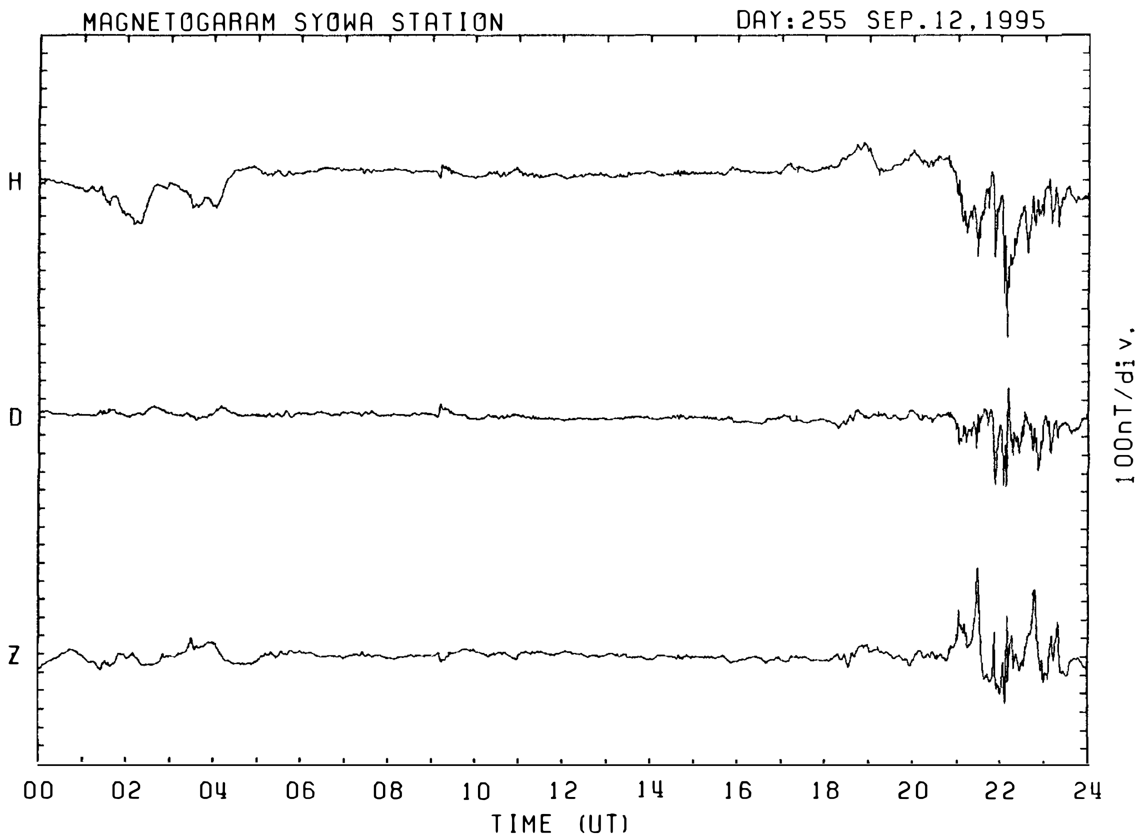
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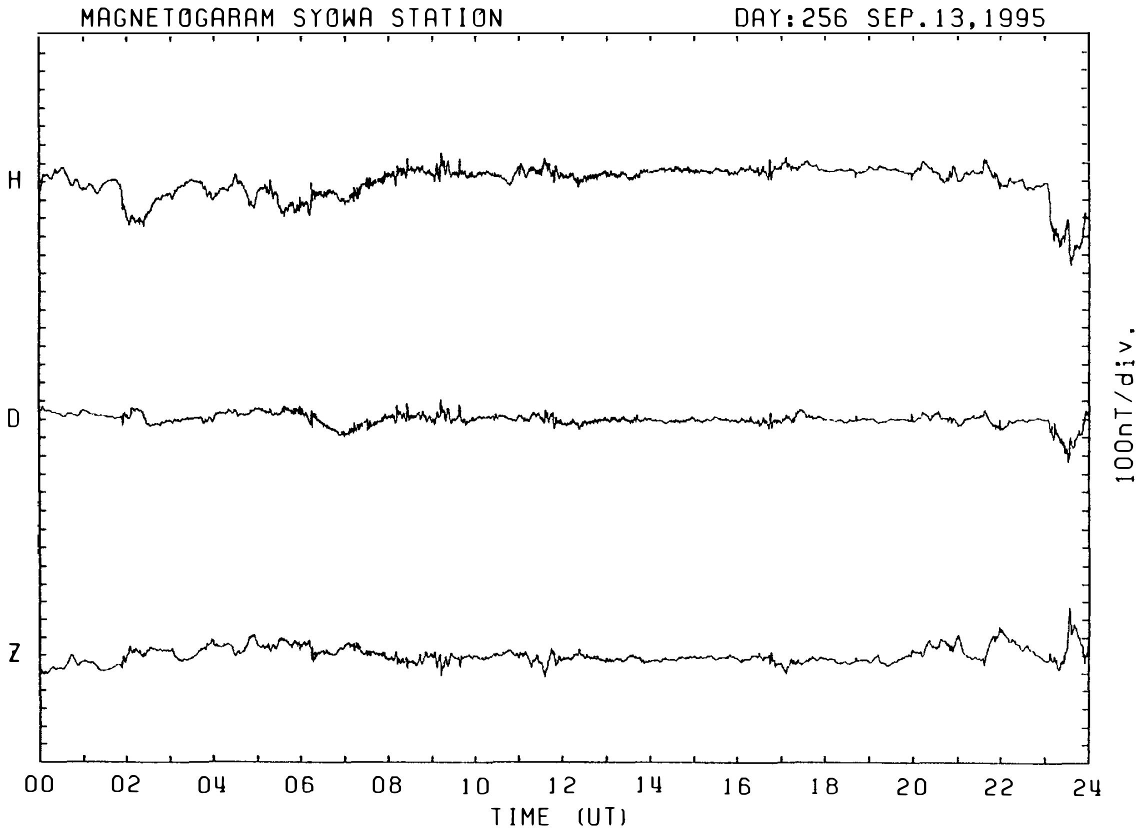
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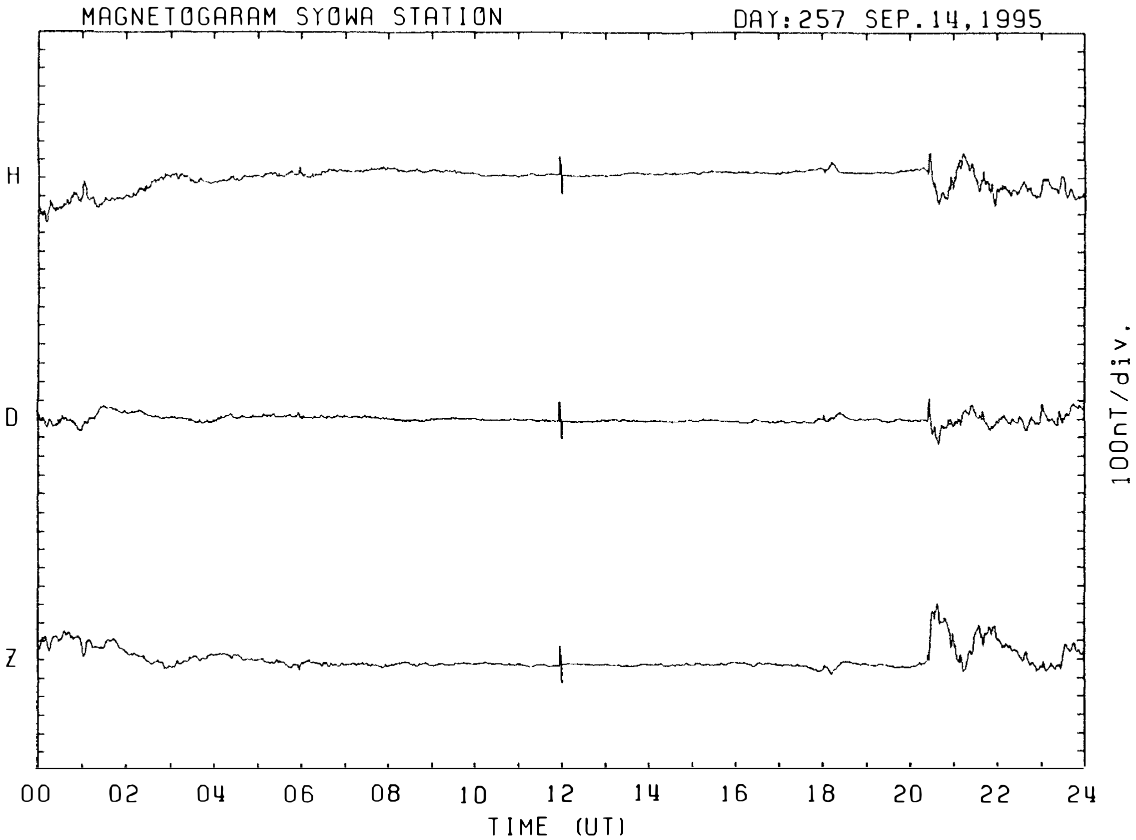
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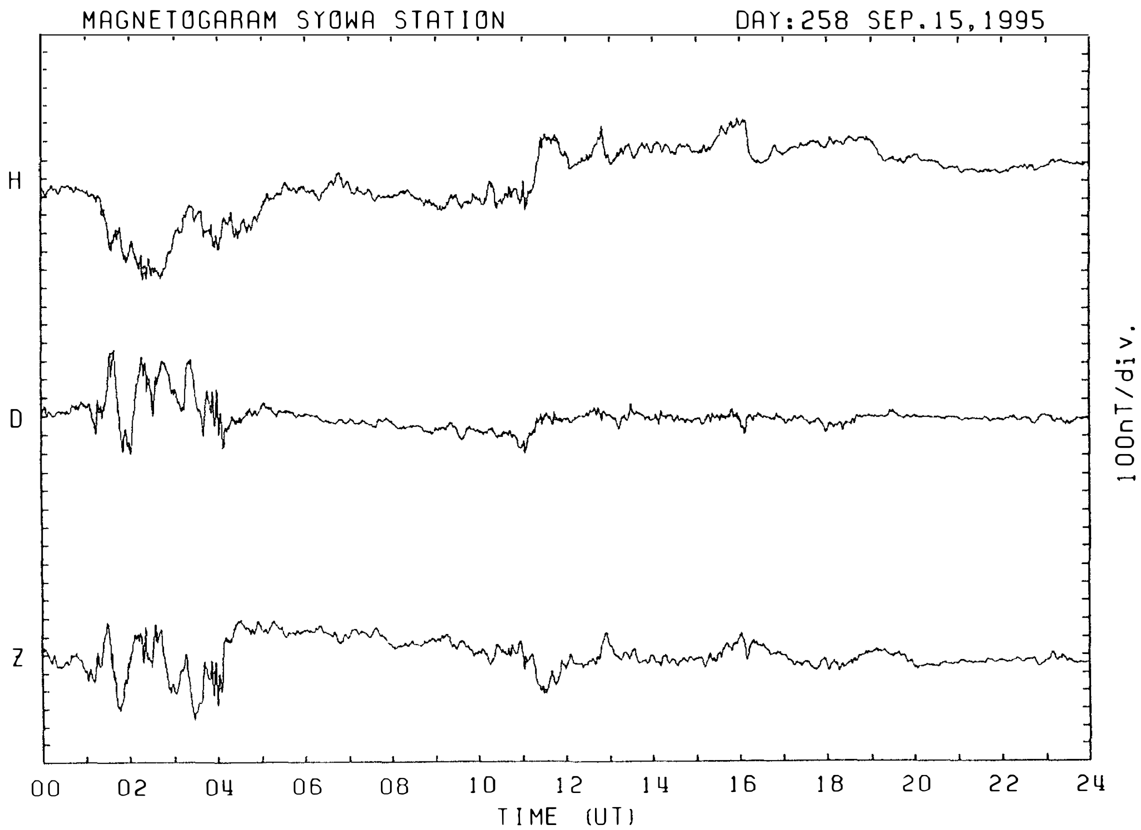
TIME (UT)


MAGNETOGARAM SYOWA STATION
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TIME (UT)

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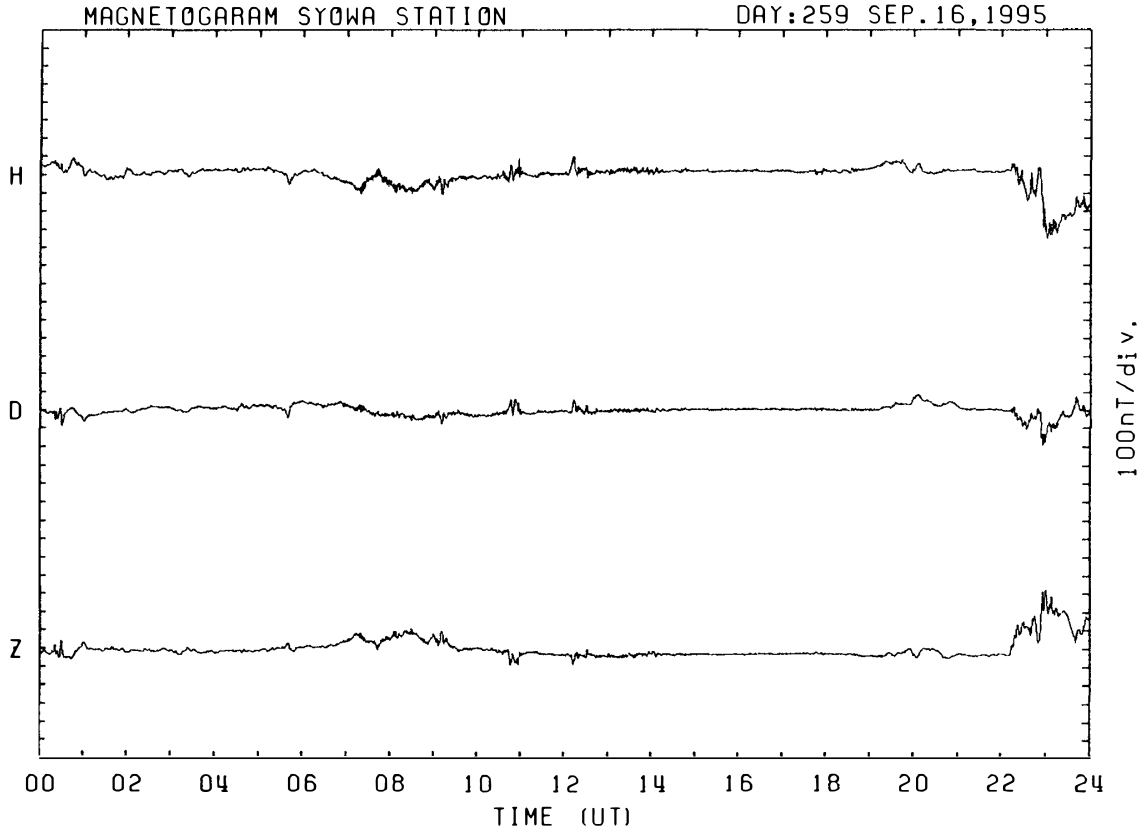
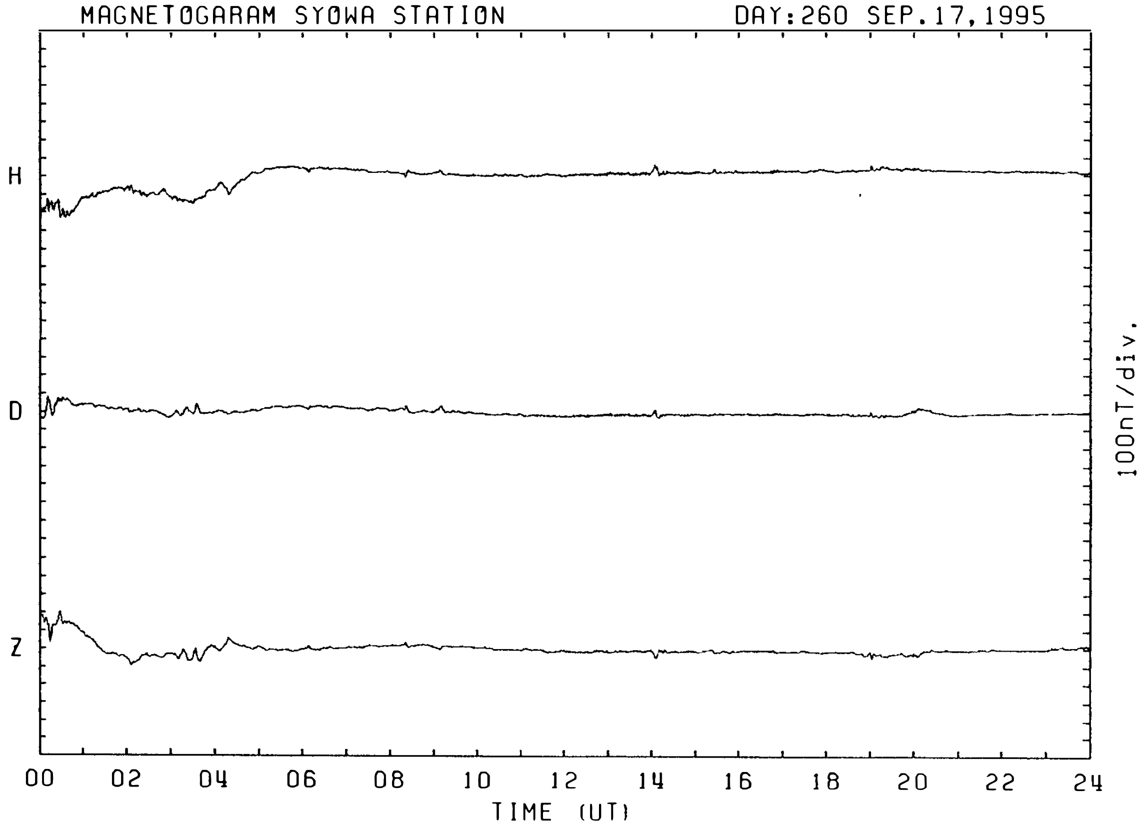
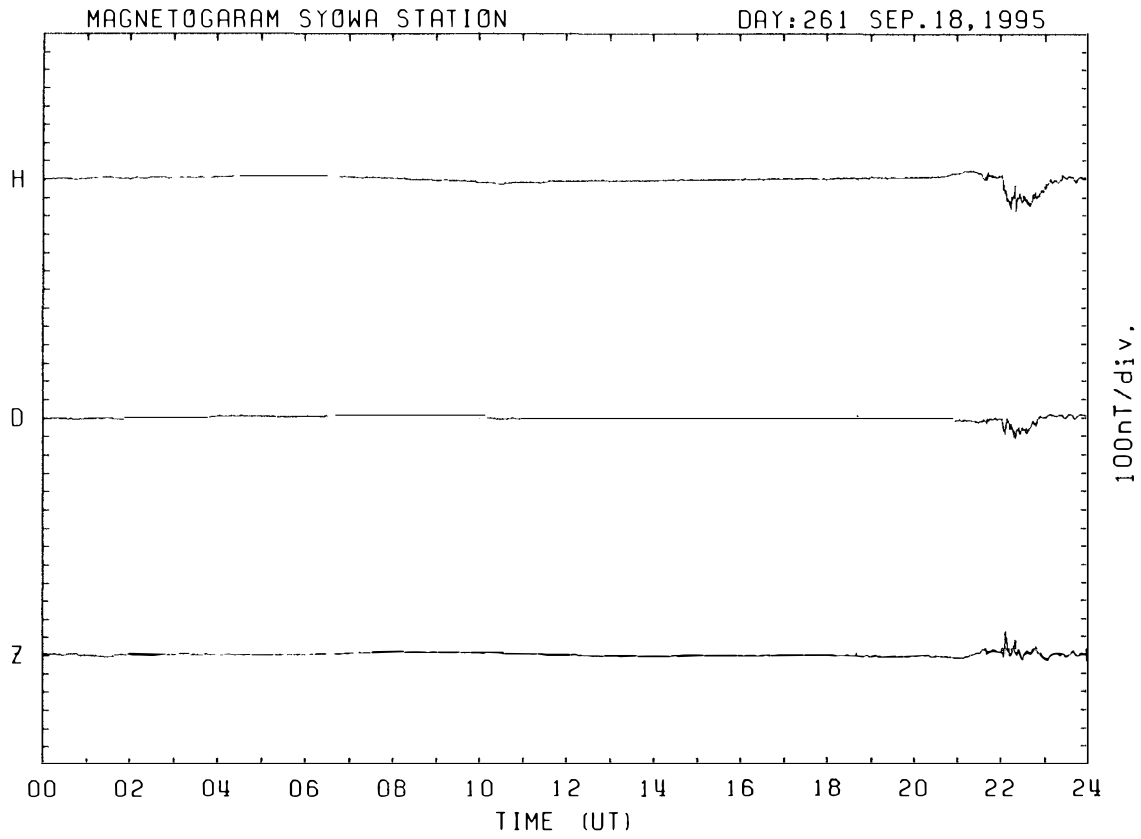


MAGNETOGARAM SYOWA STATION DAY:260 SEP.17,1995

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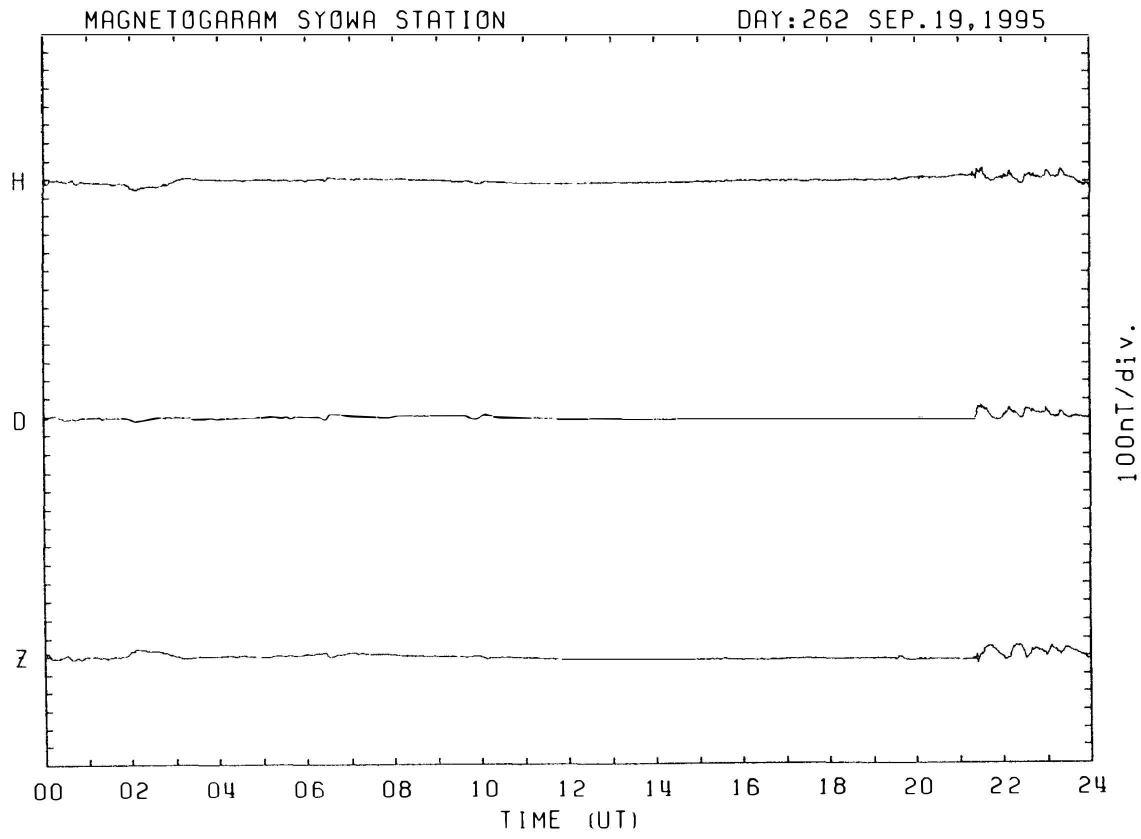
TIME (UT)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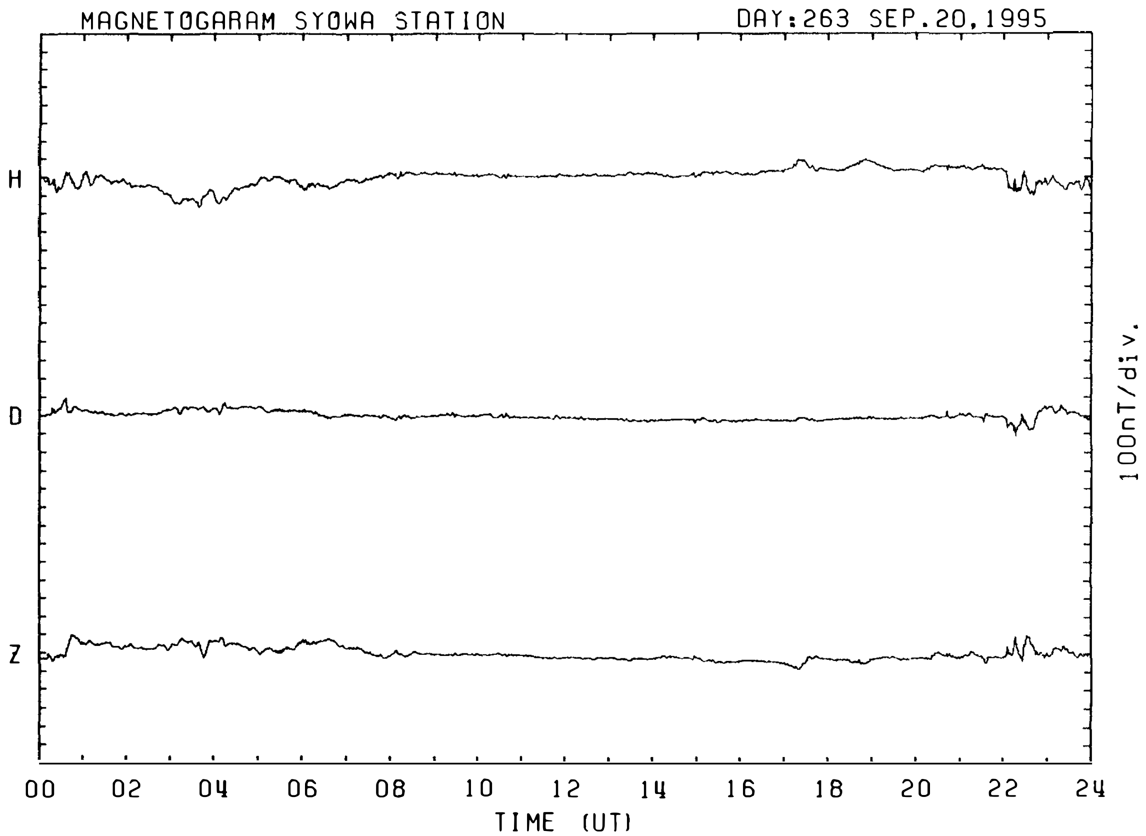
TIME (UT)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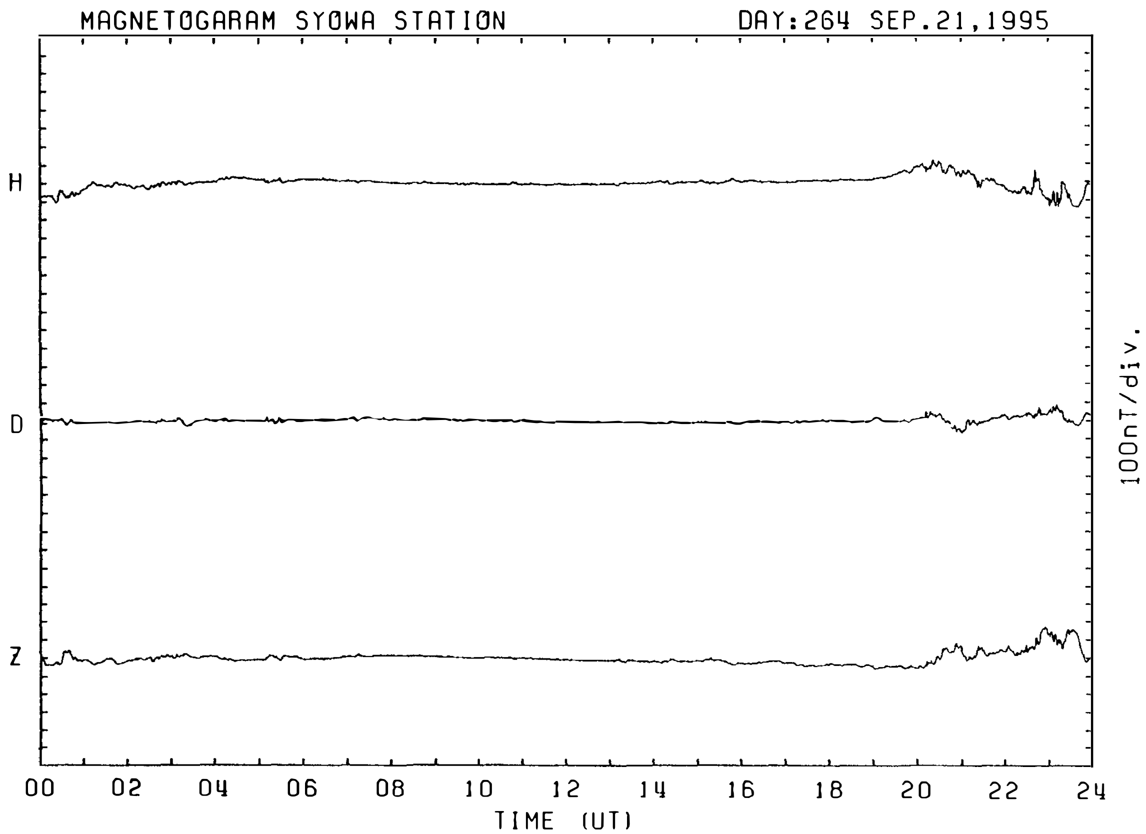
TIME (UT)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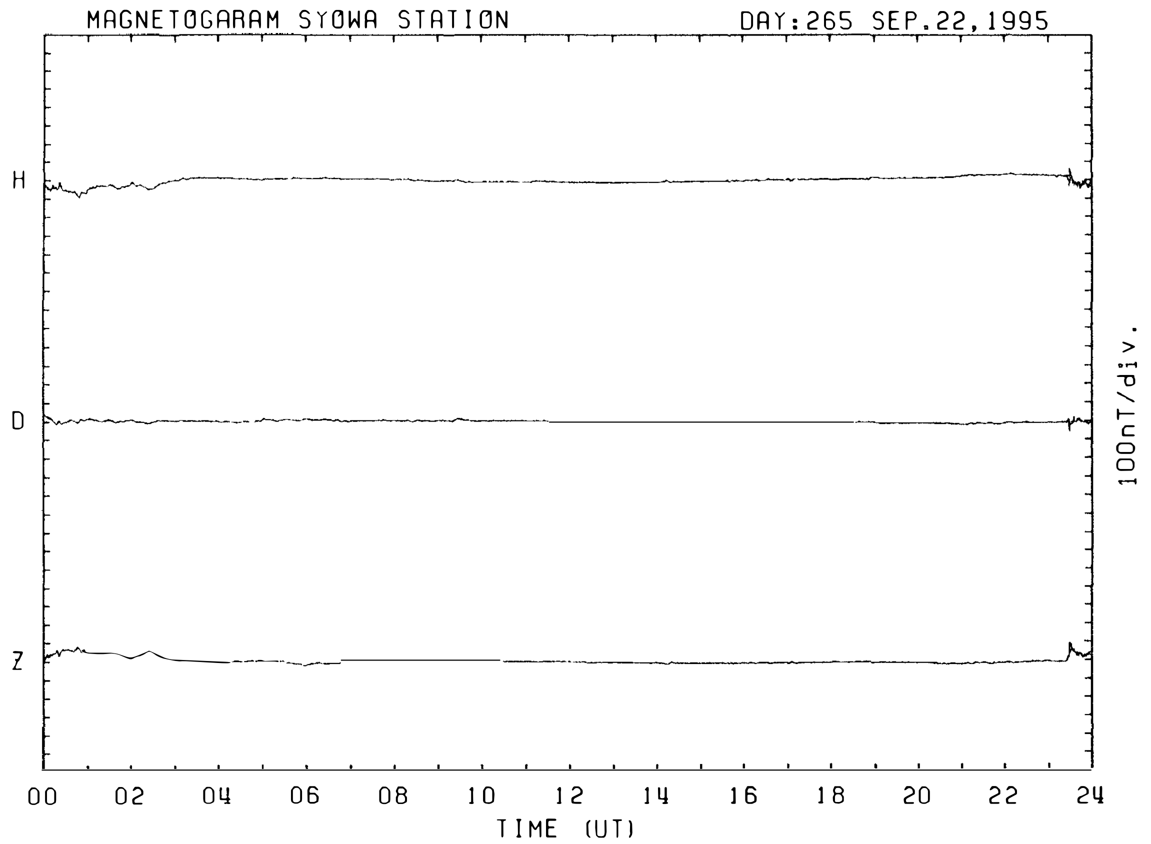
TIME (UT)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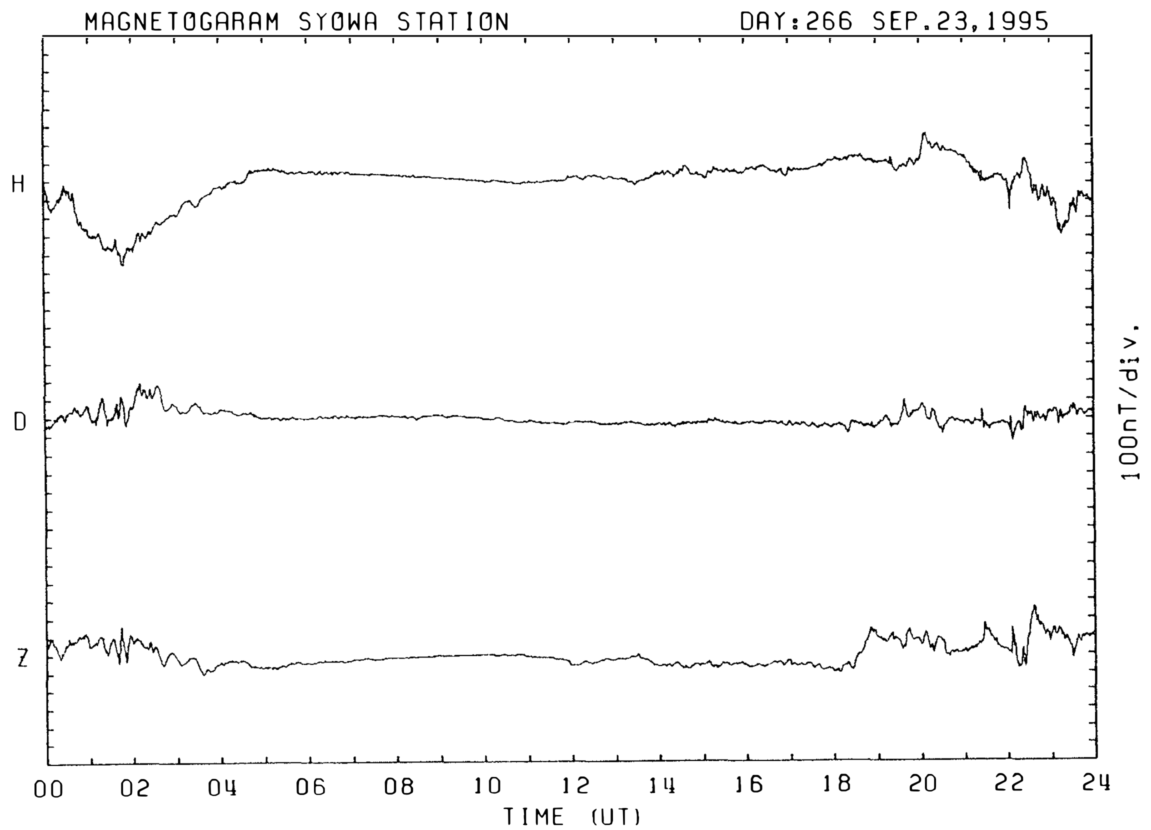
TIME (UT)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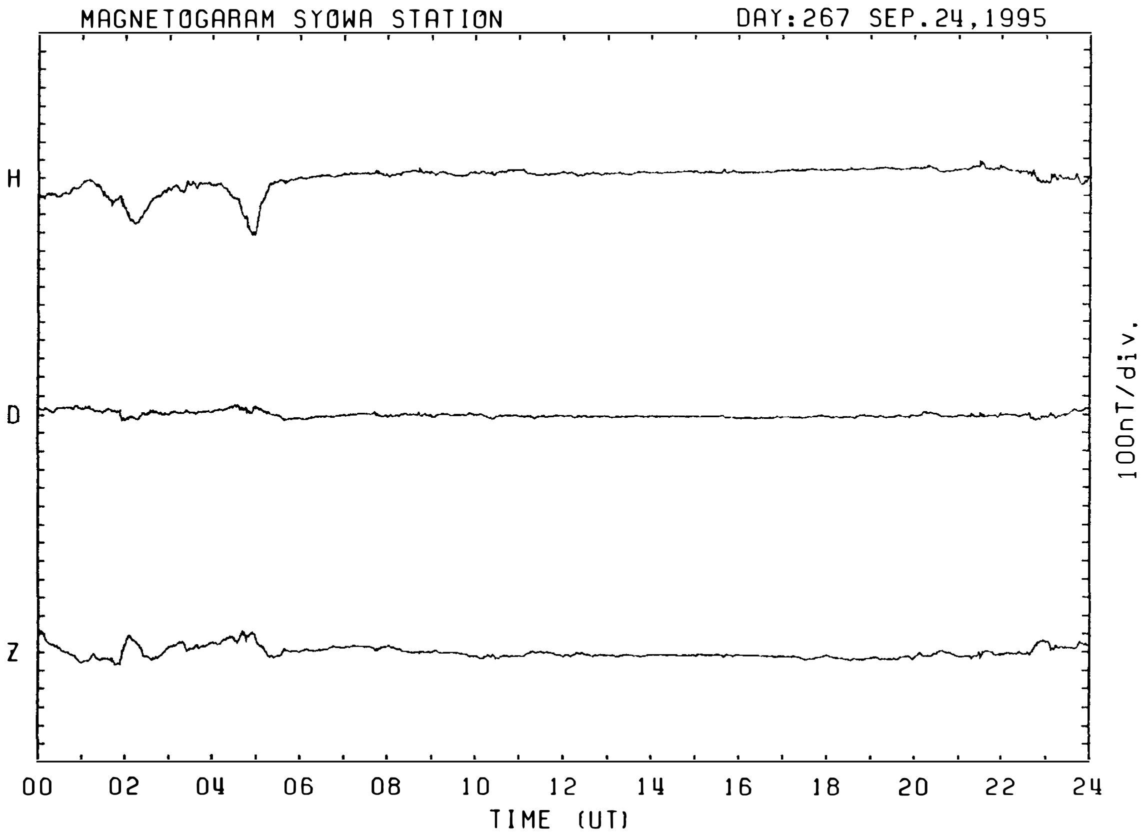
TIME (UT)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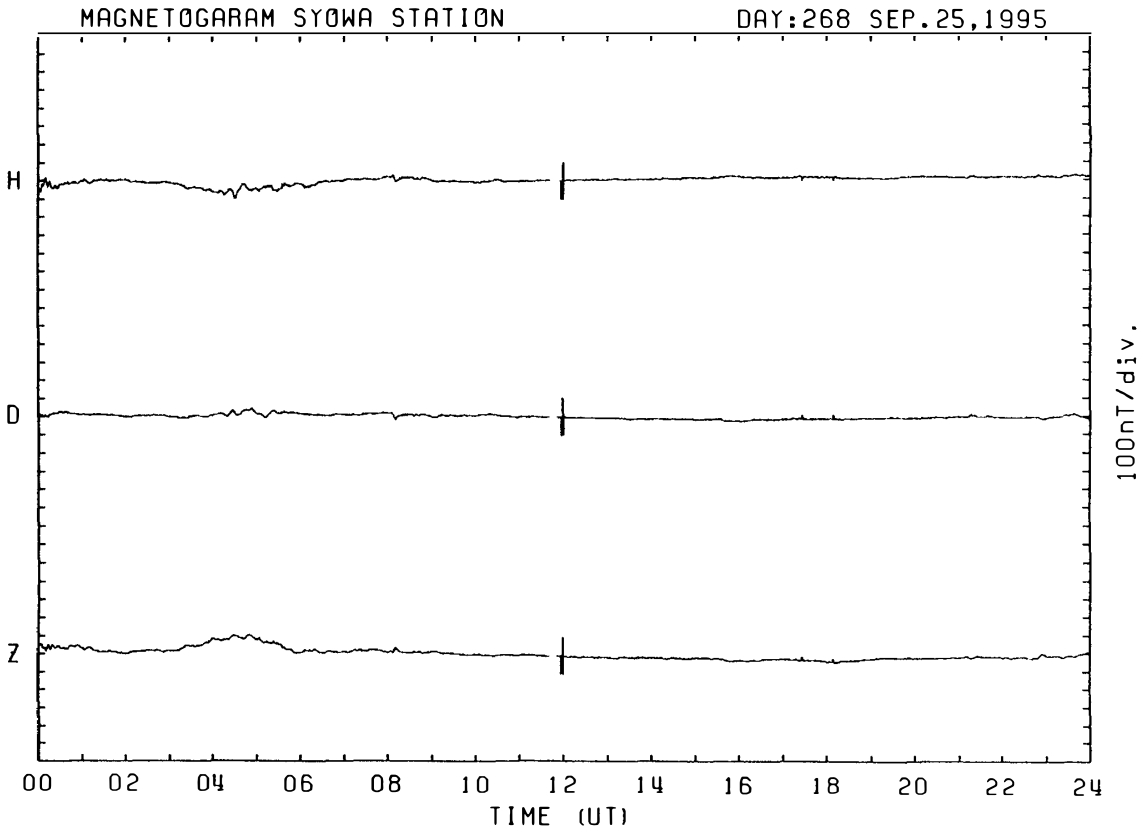
TIME (UT)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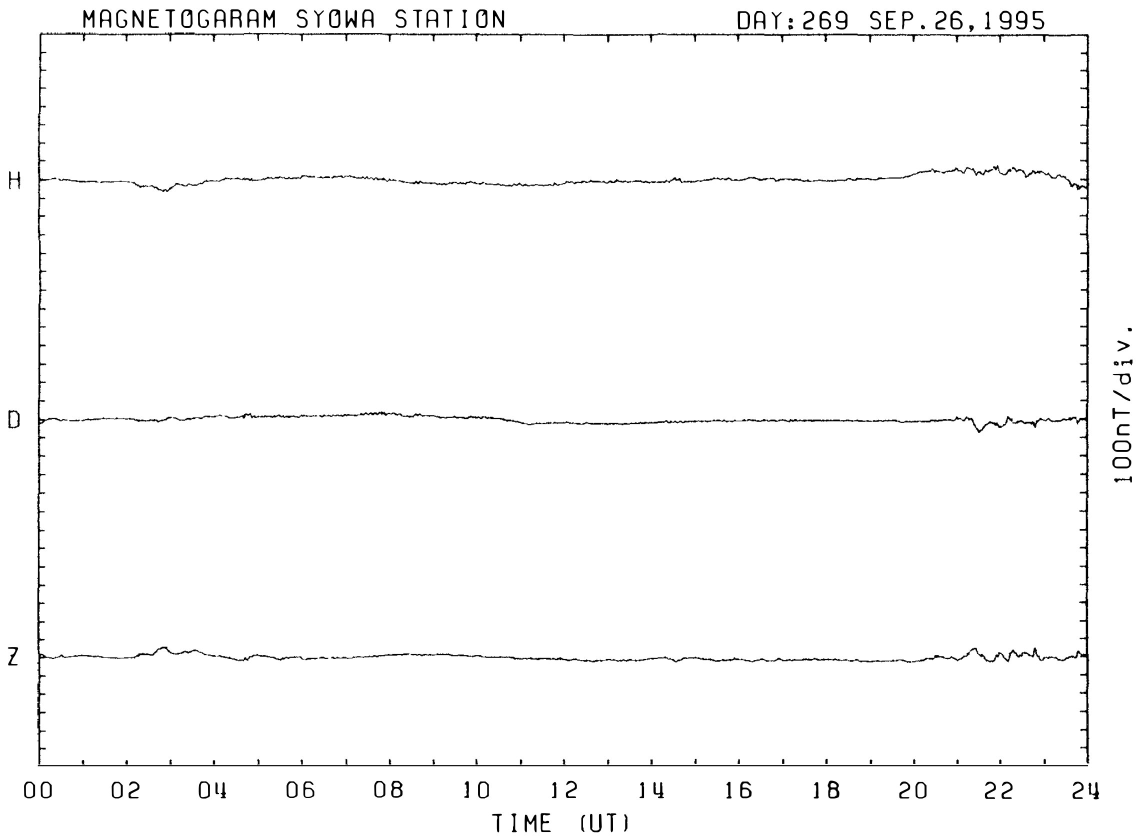
TIME (UT)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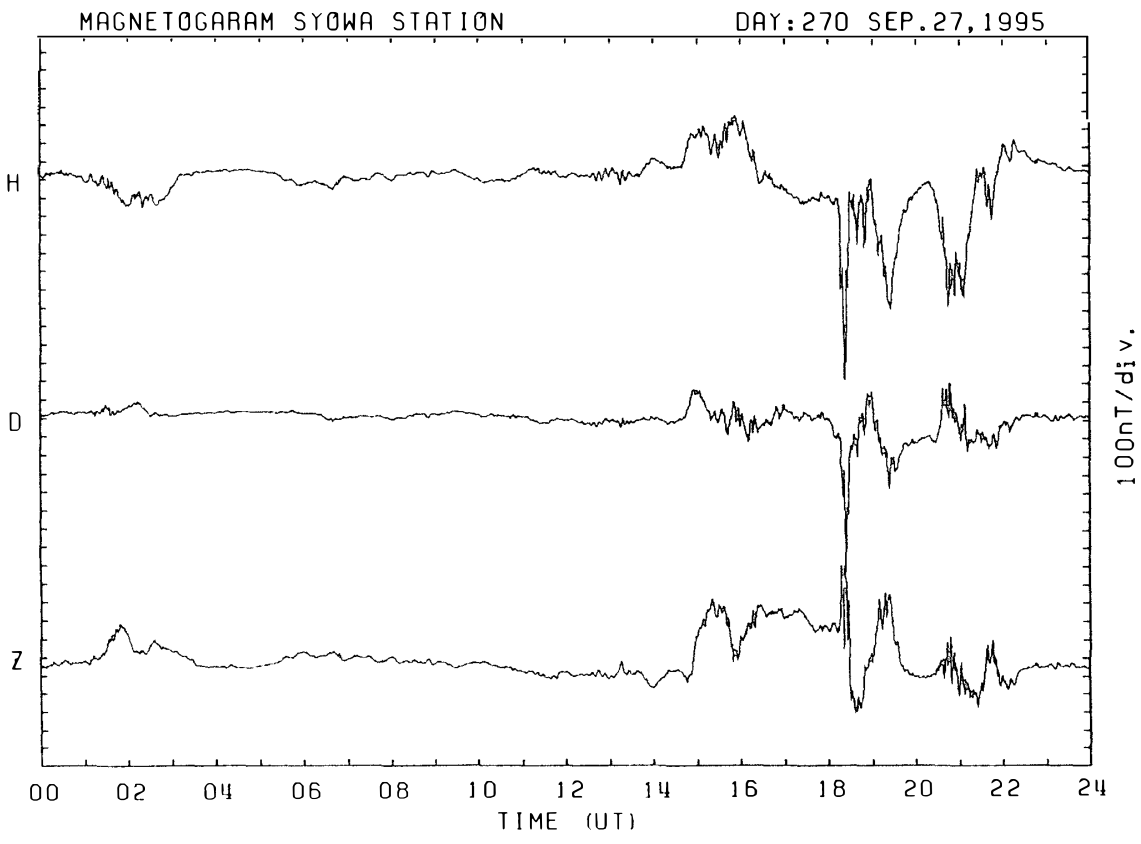
TIME (UT)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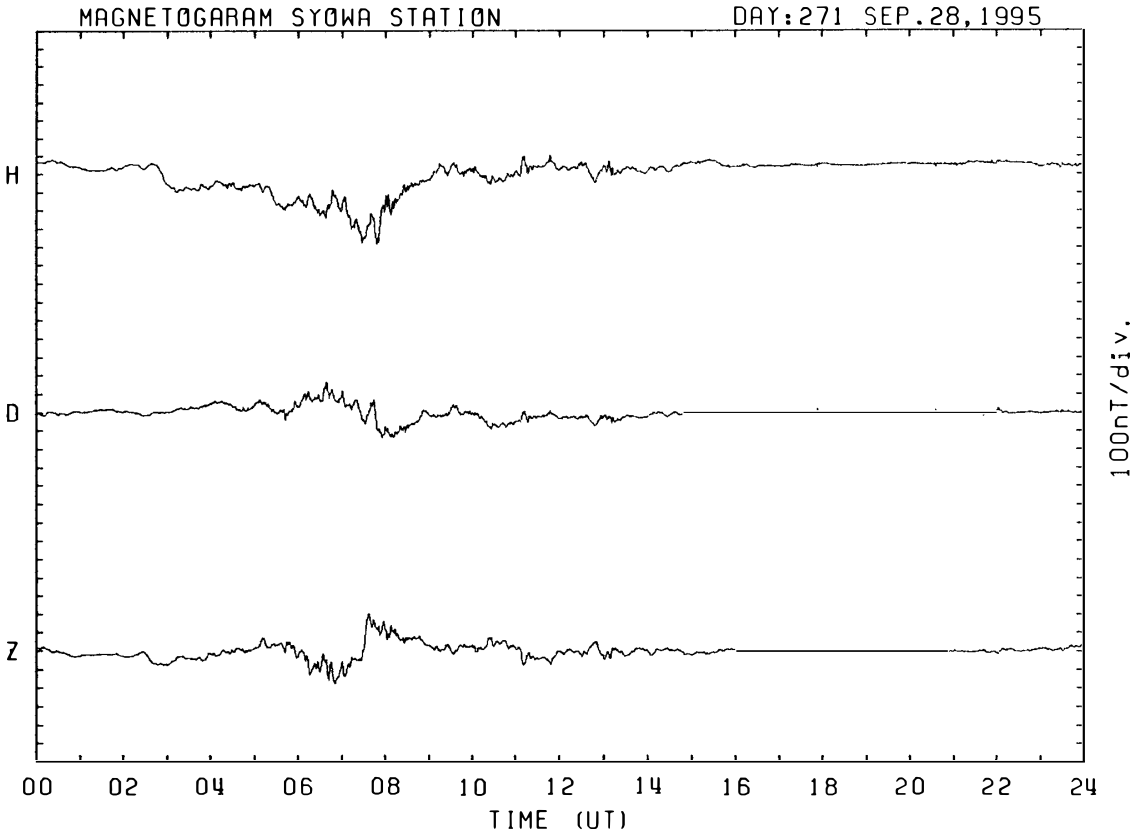
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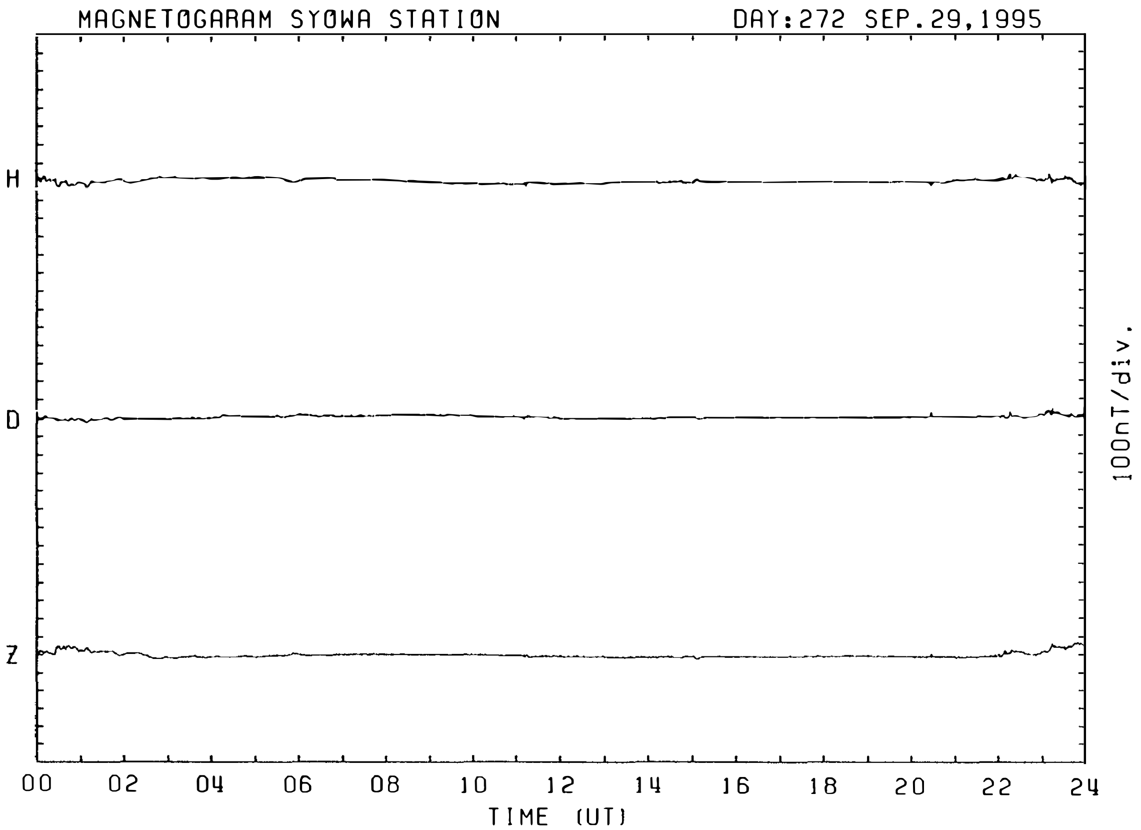
TIME (UT)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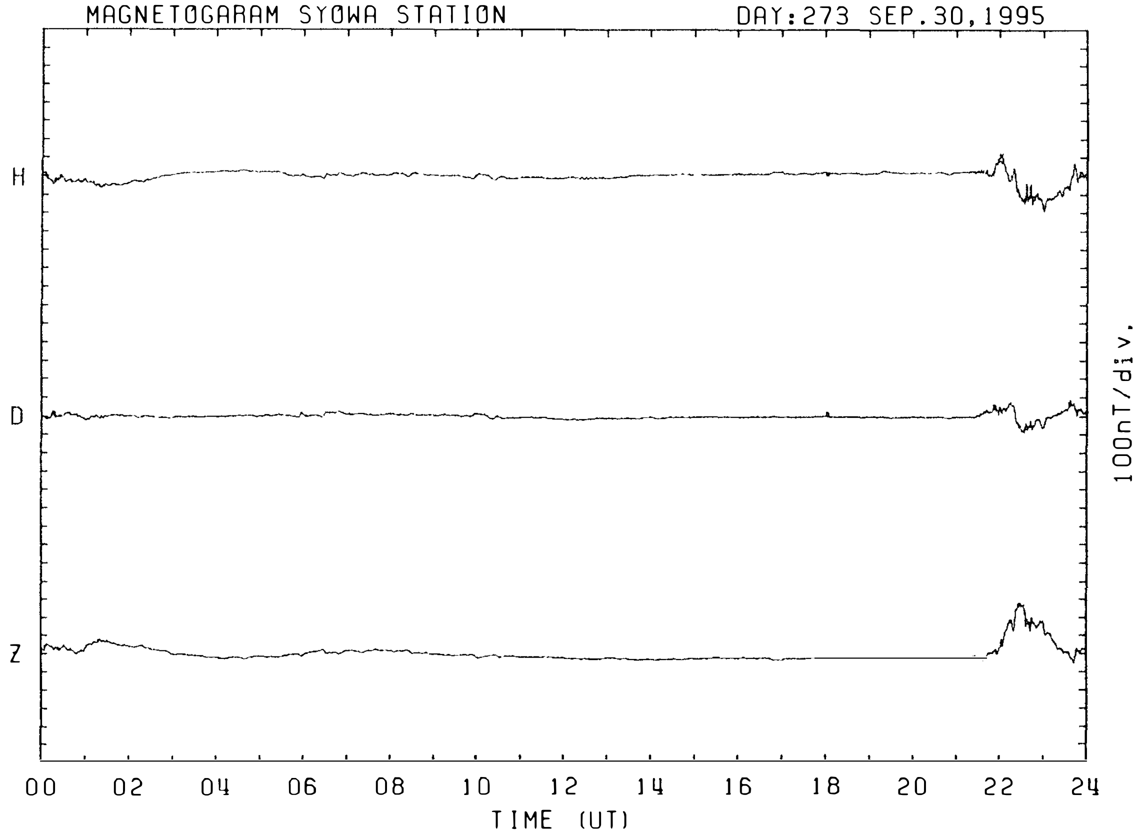
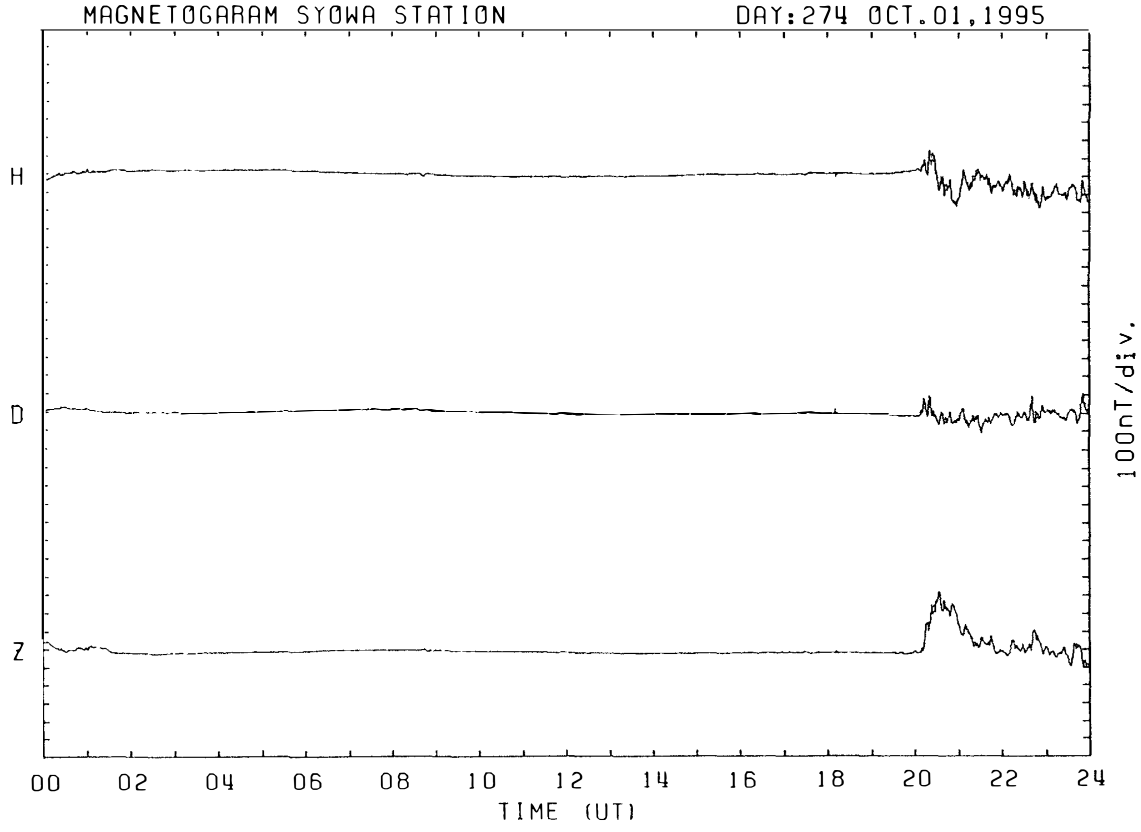
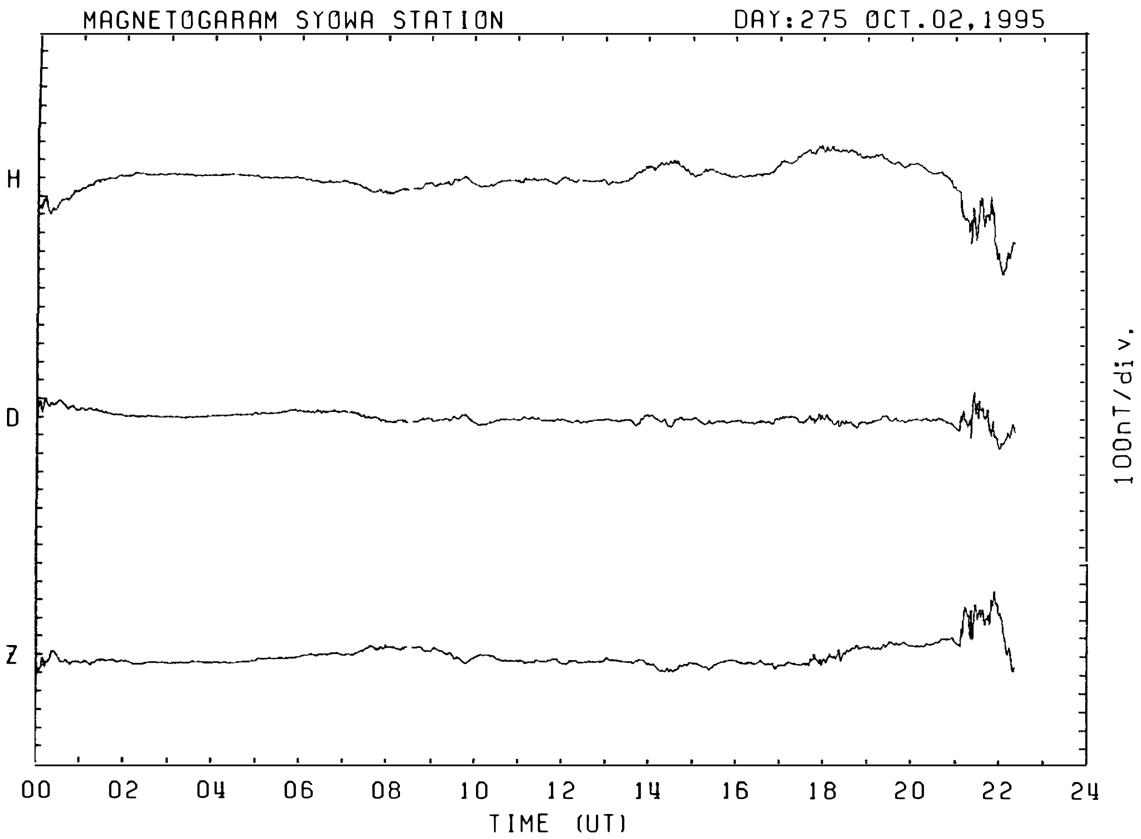
TIME (UT)

MAGNETOGARAM SYOWA STATION DAY:273 SEP.30,1995



MAGNETOGARAM SYOWA STATION DAY:274 OCT.01,1995

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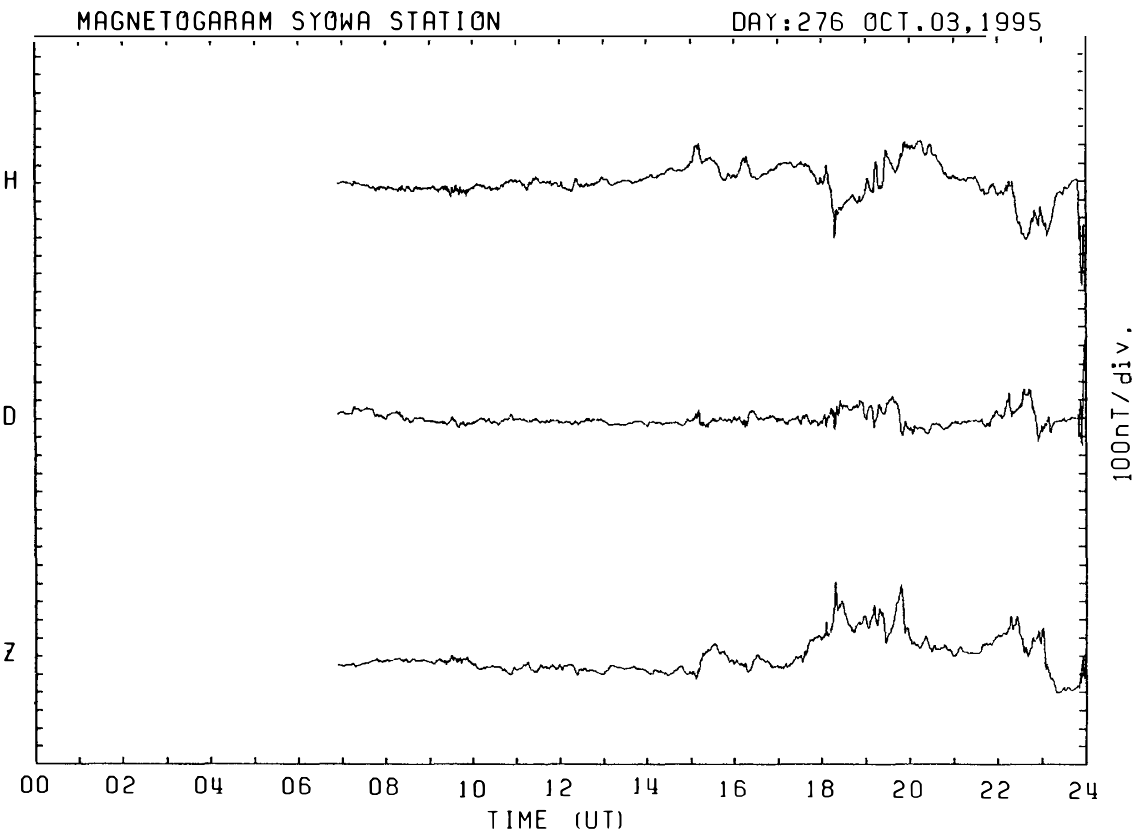
TIME (UT)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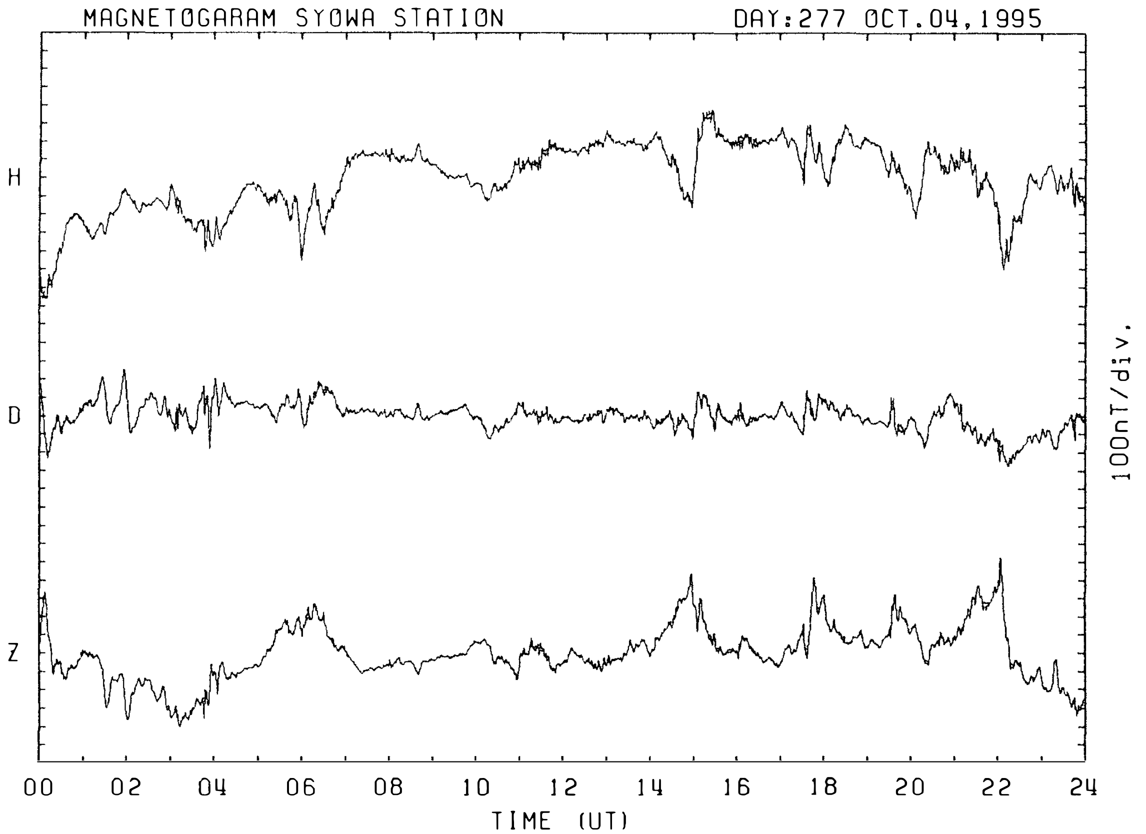
TIME (UT)



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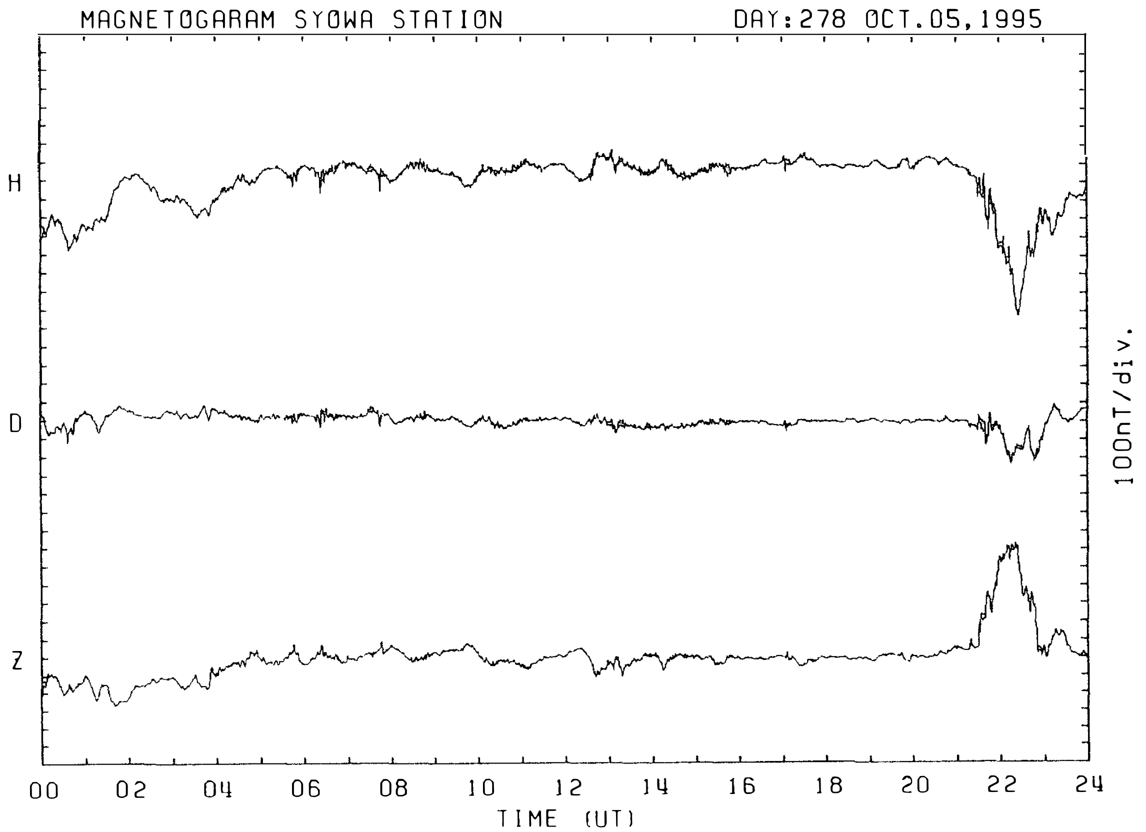

MAGNETOGARAM SYOWA STATION
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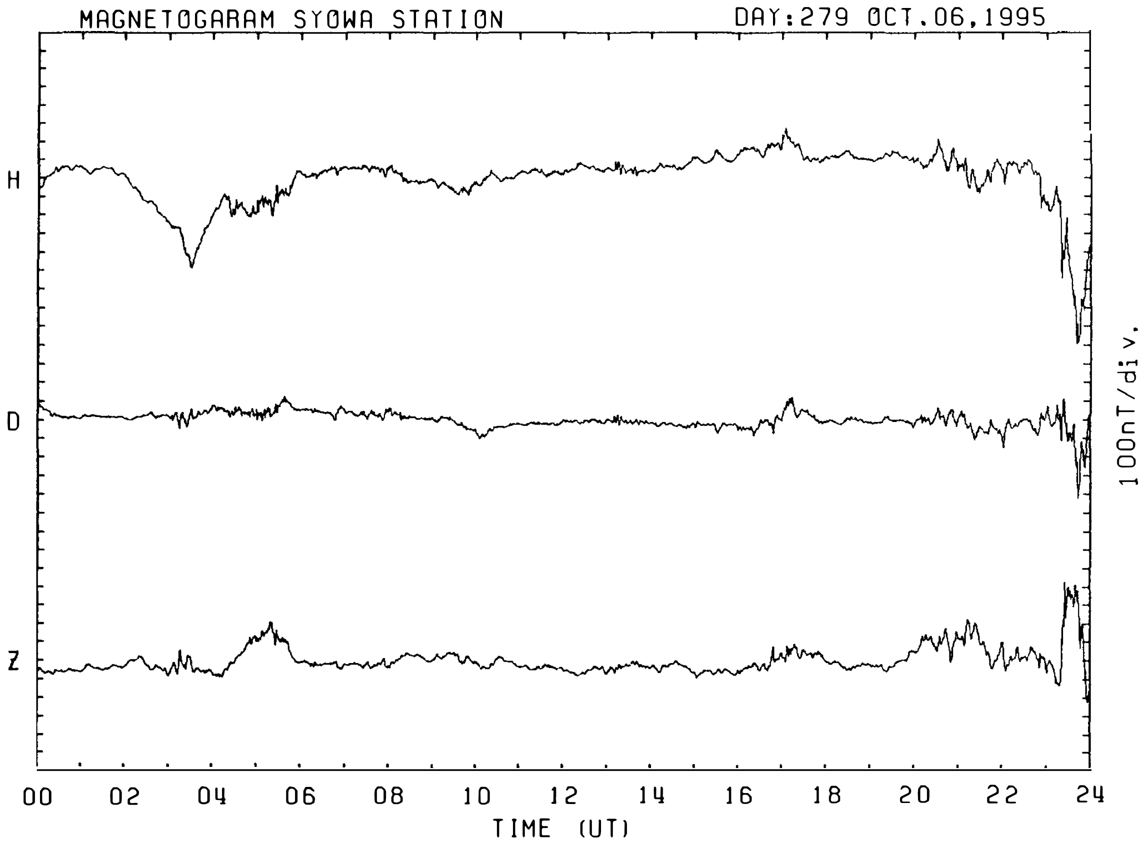
TIME (UT)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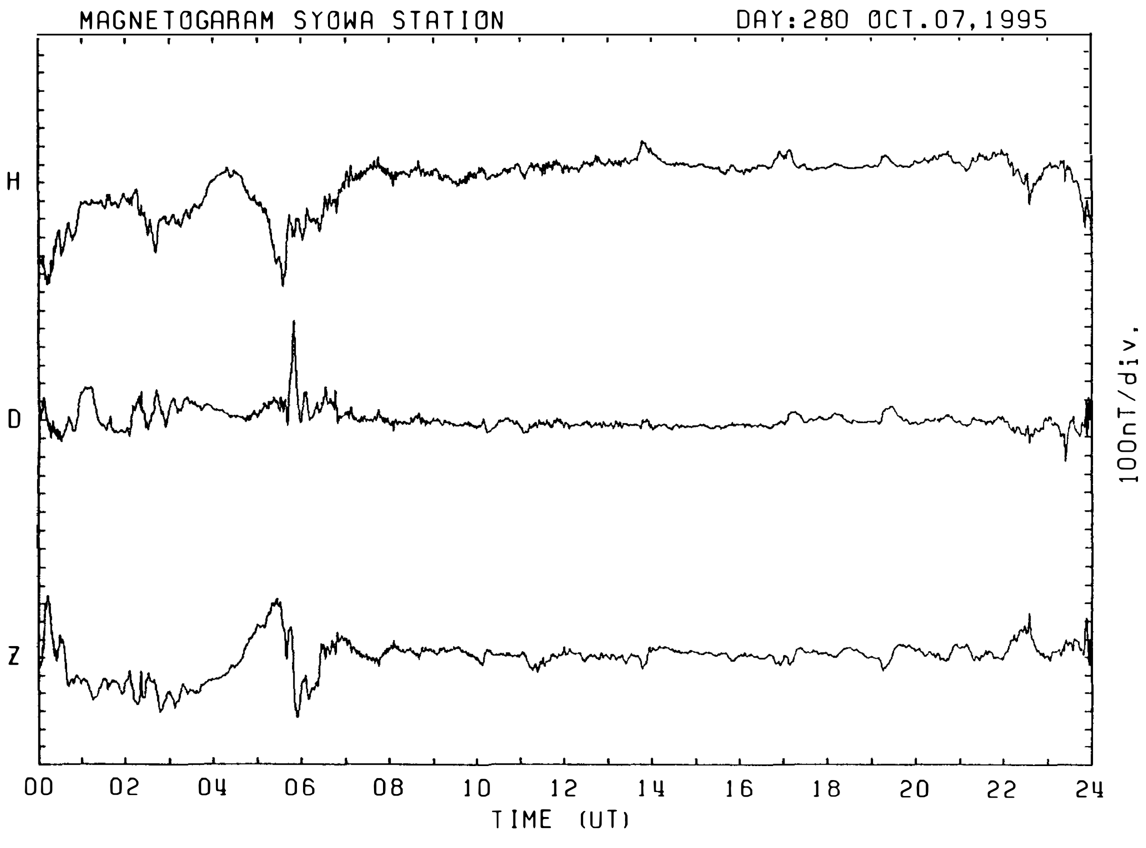
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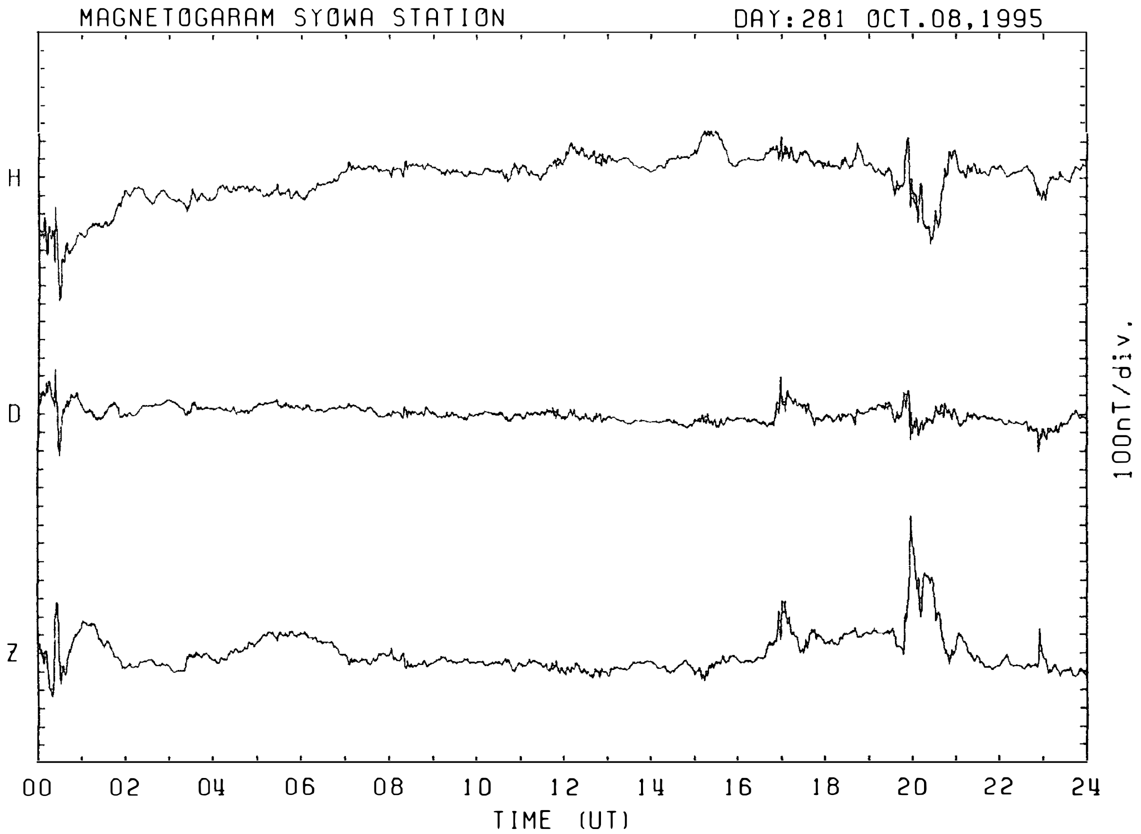
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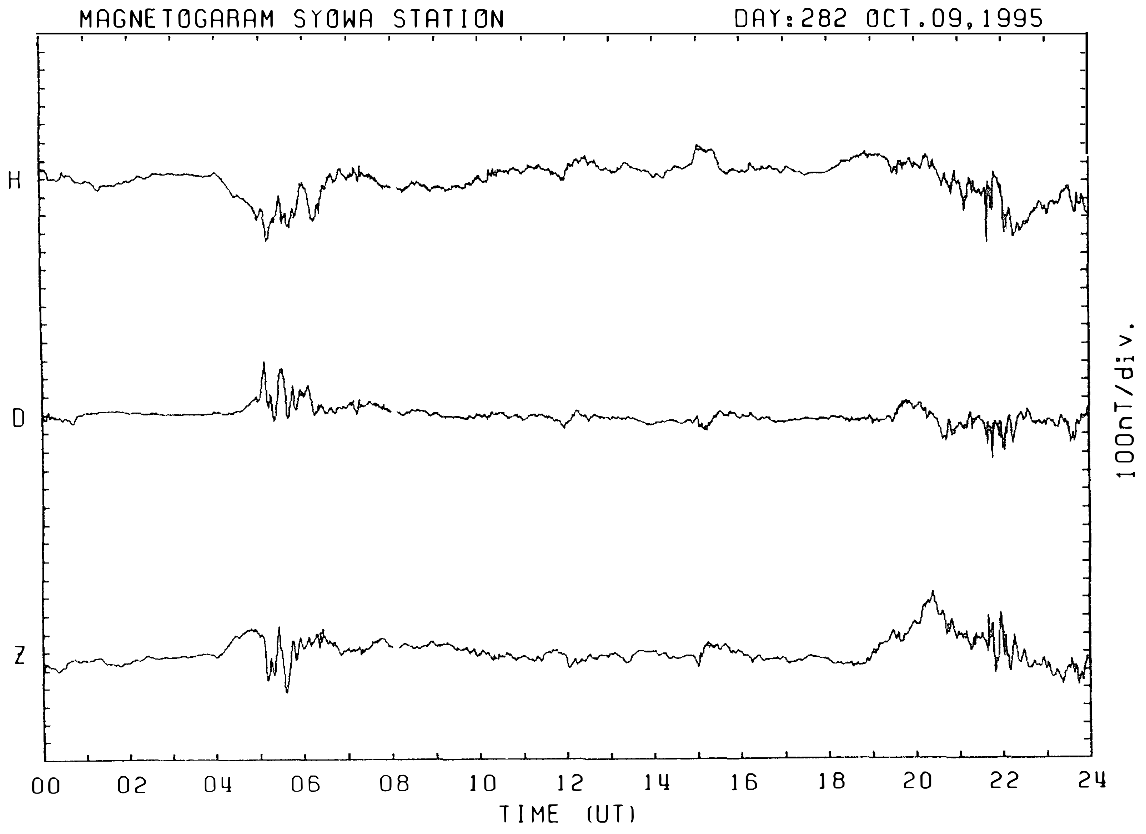
TIME (UT)


MAGNETOGARAM SYOWA STATION
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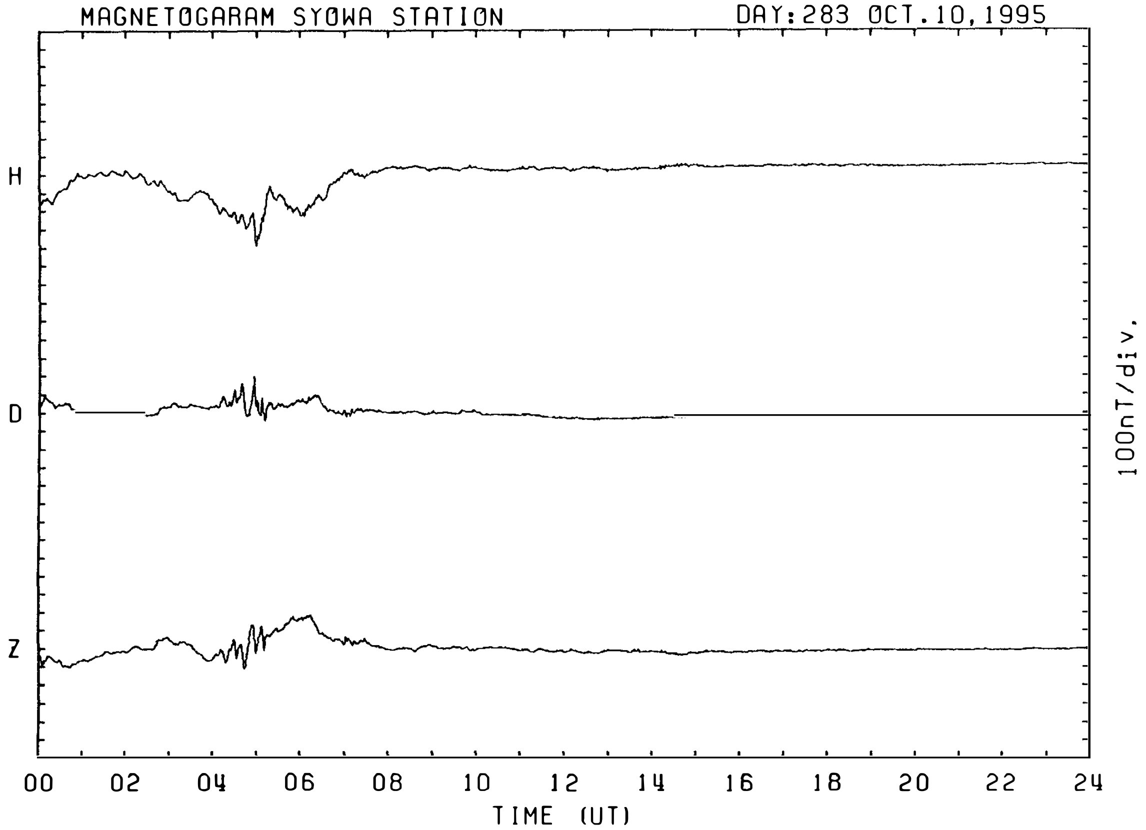
TIME (UT)

MAGNETOGARAM SYOWA STATION DAY:283 OCT.10,1995



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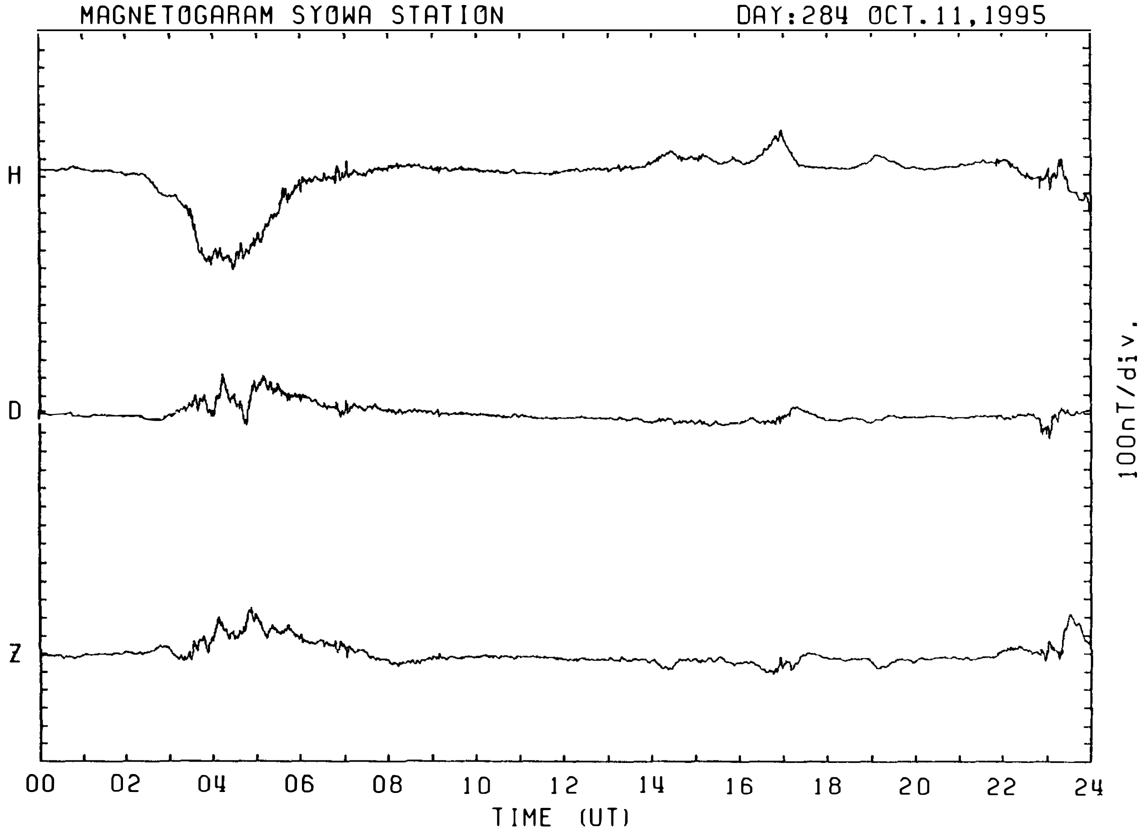

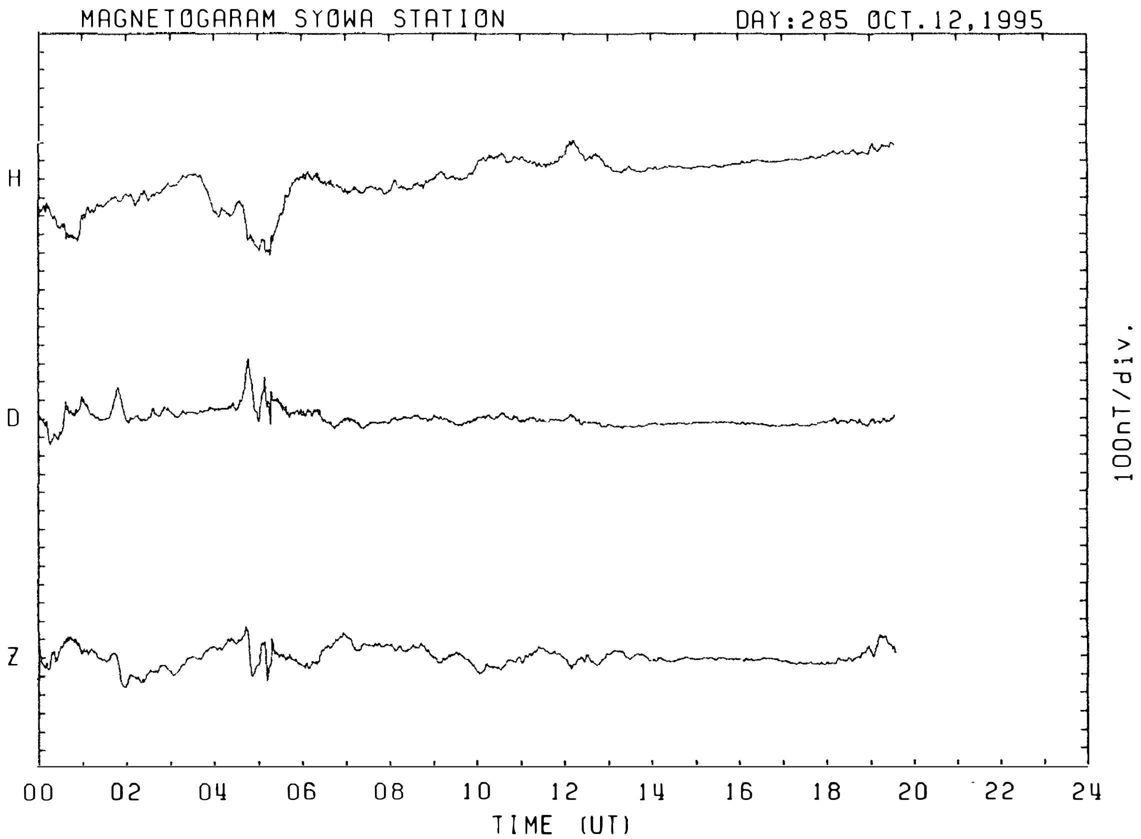
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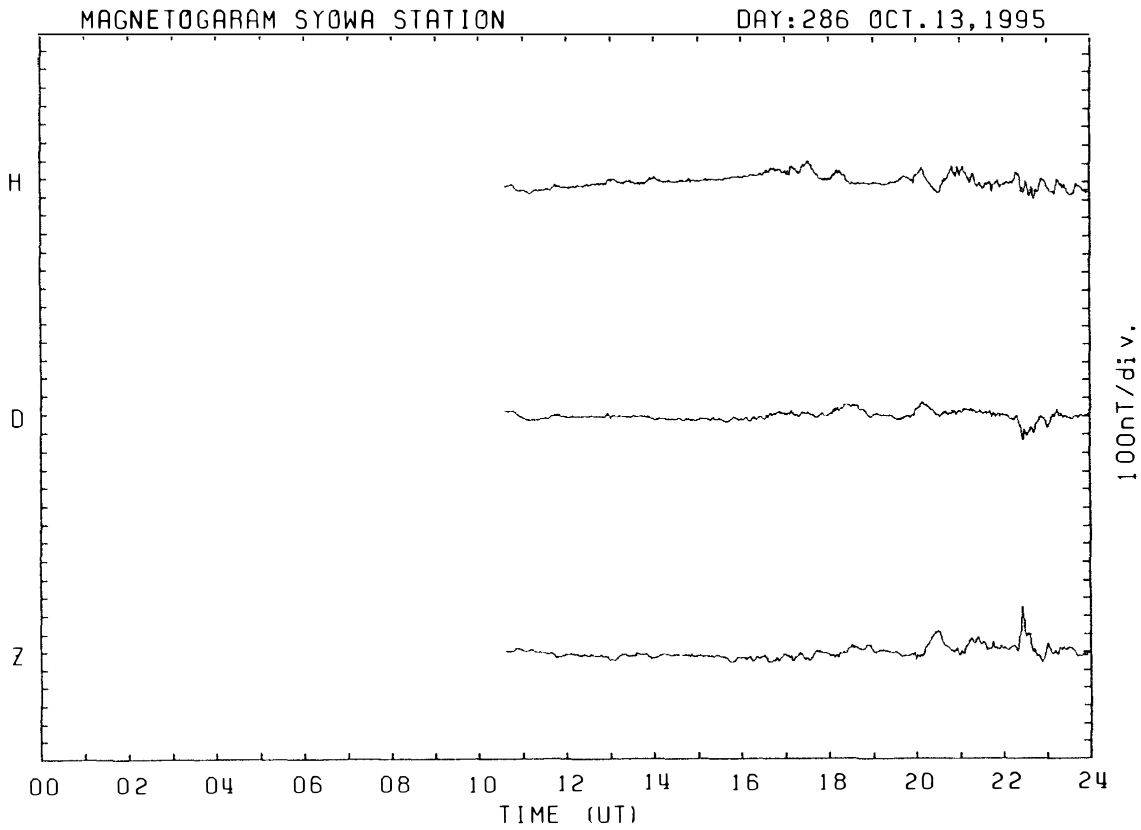
TIME (UT)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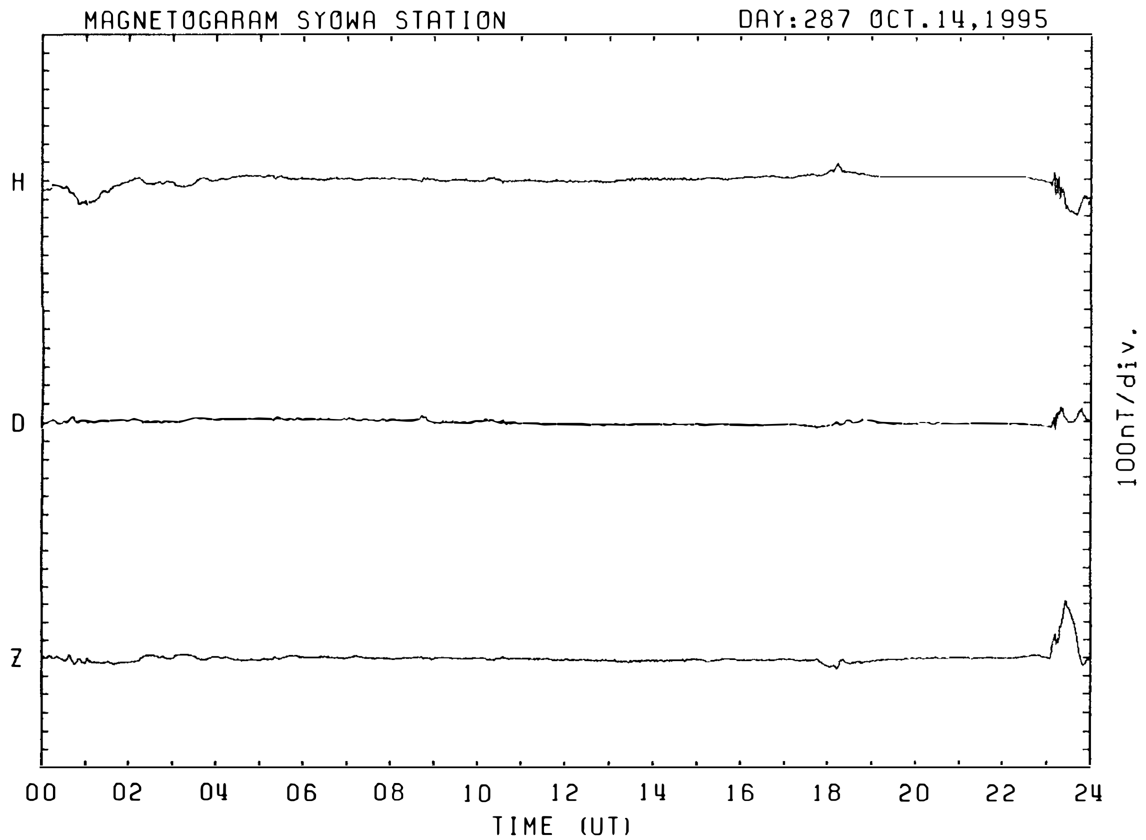
TIME (UT)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100nT/div.
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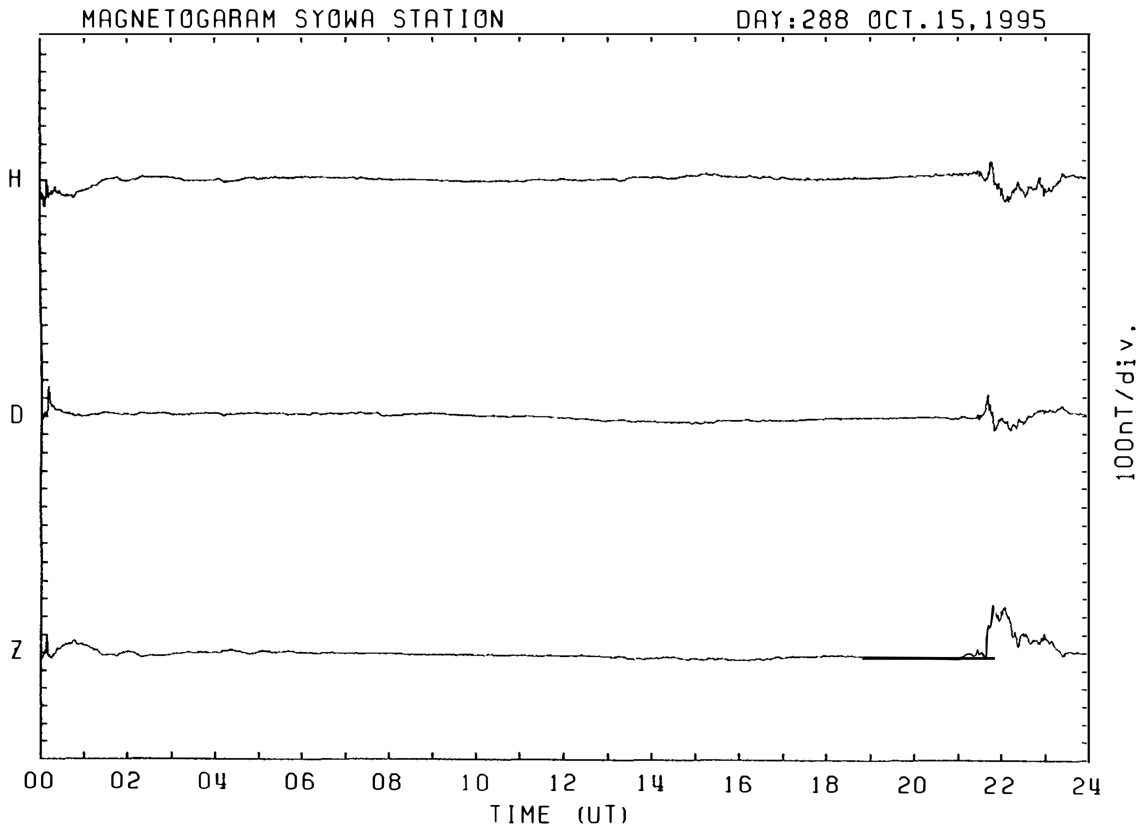
TIME (UT)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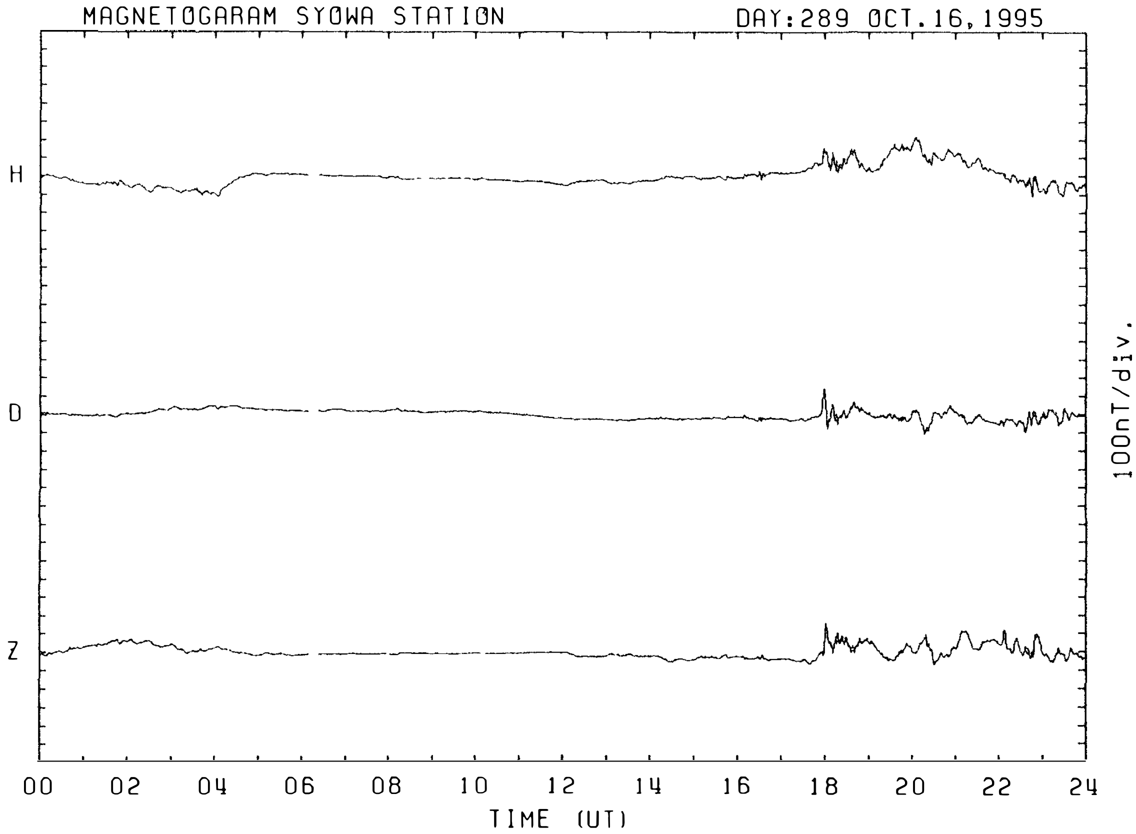
TIME (UT)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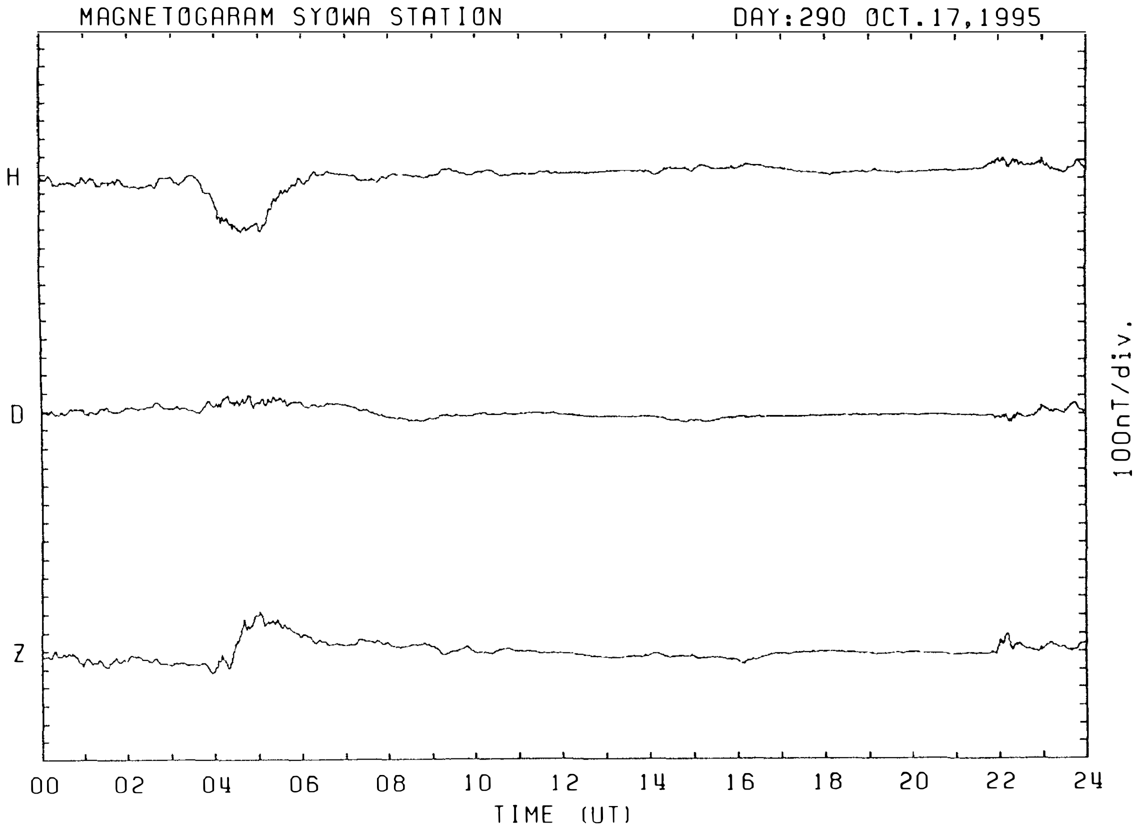
TIME (UT)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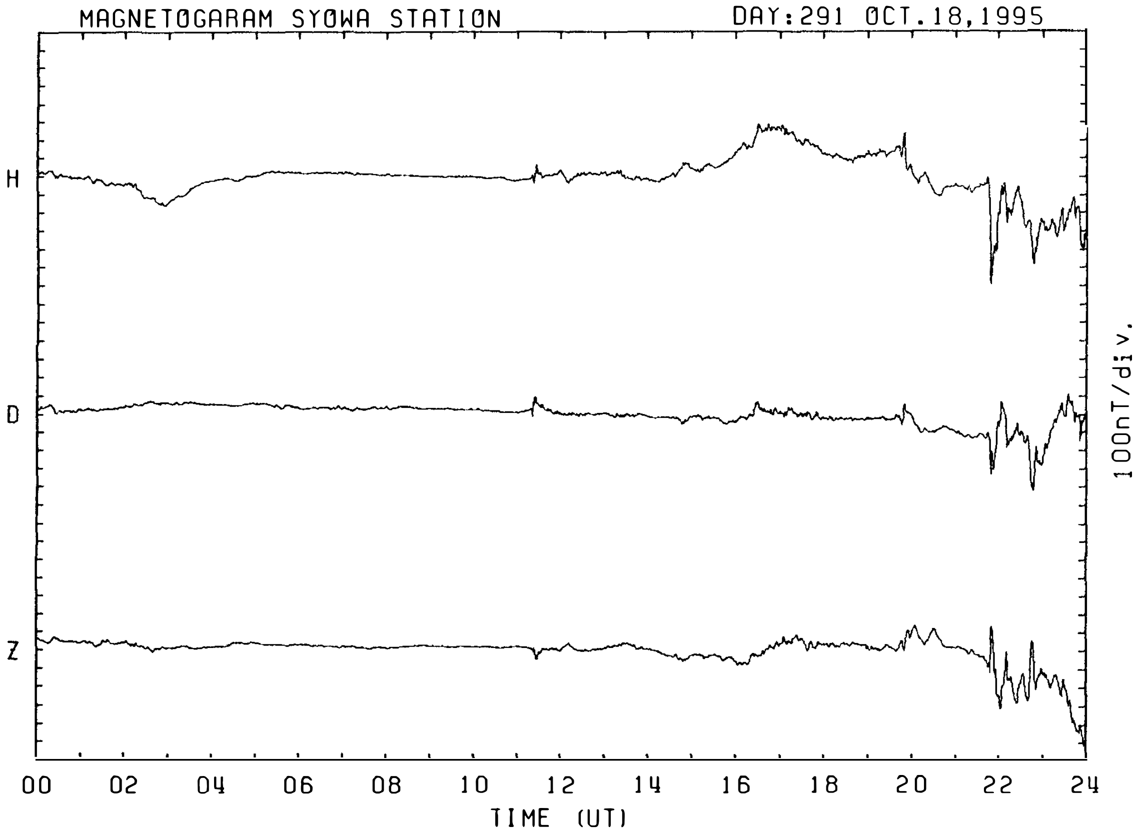
TIME (UT)



MAGNETOGARAM SYOWA STATION
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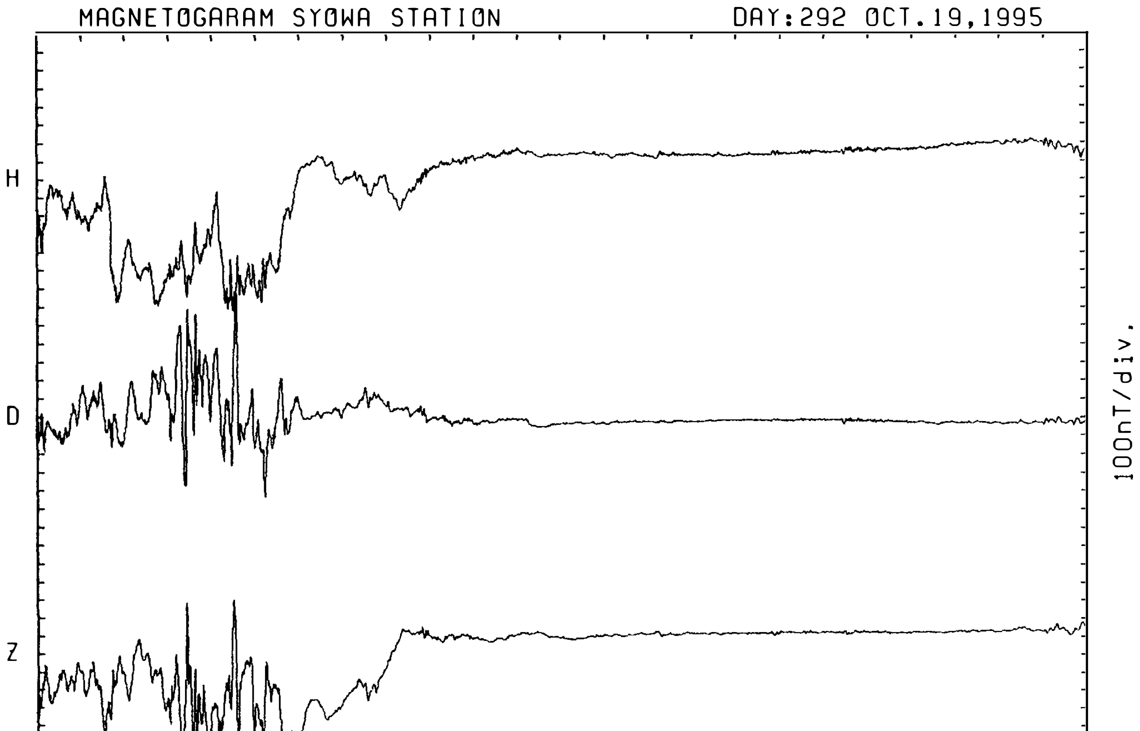
TIME (UT)



MAGNETOGARAM SYOWA STATION
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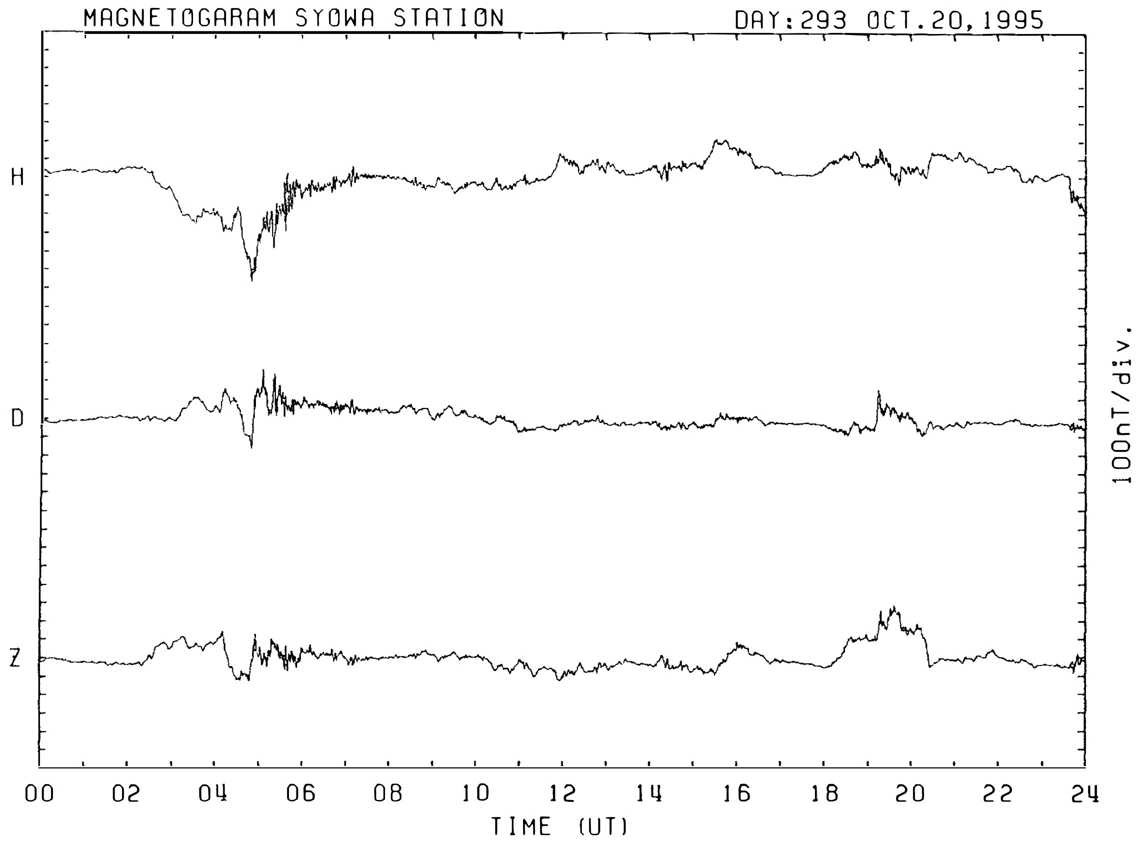
TIME (UT)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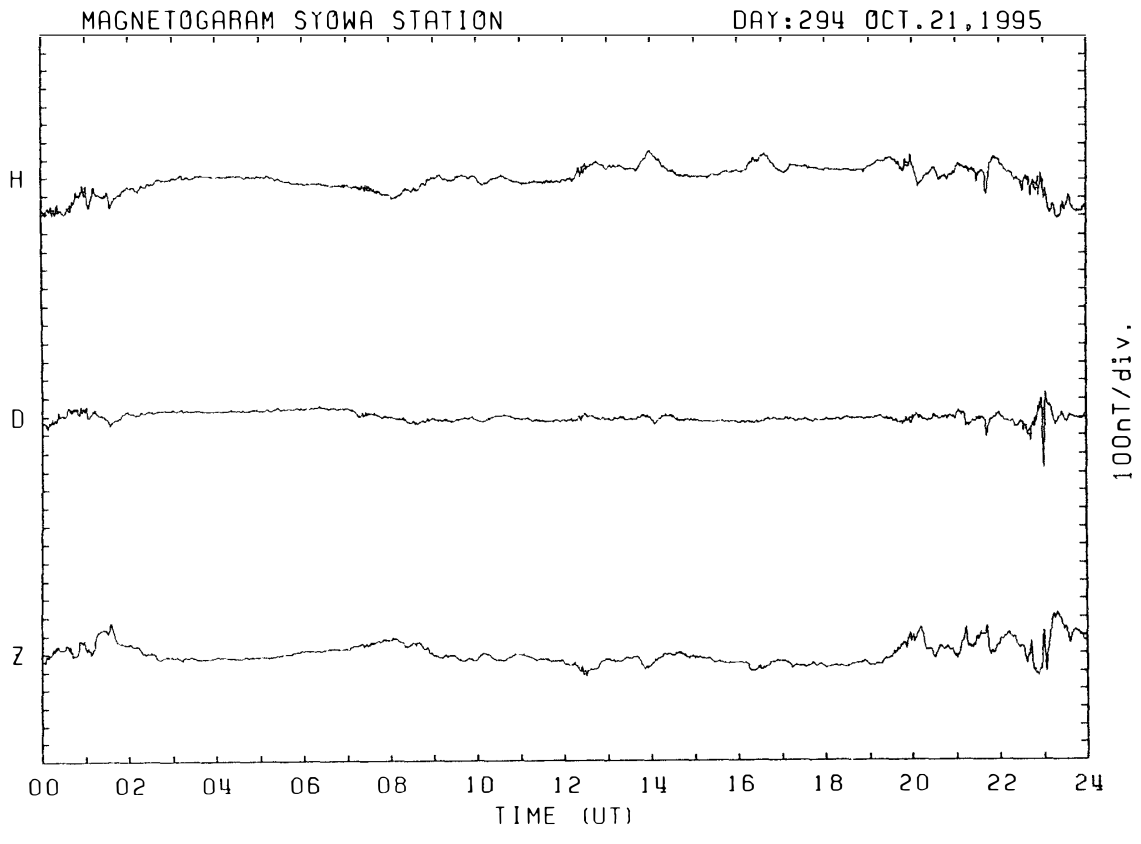
TIME (UT)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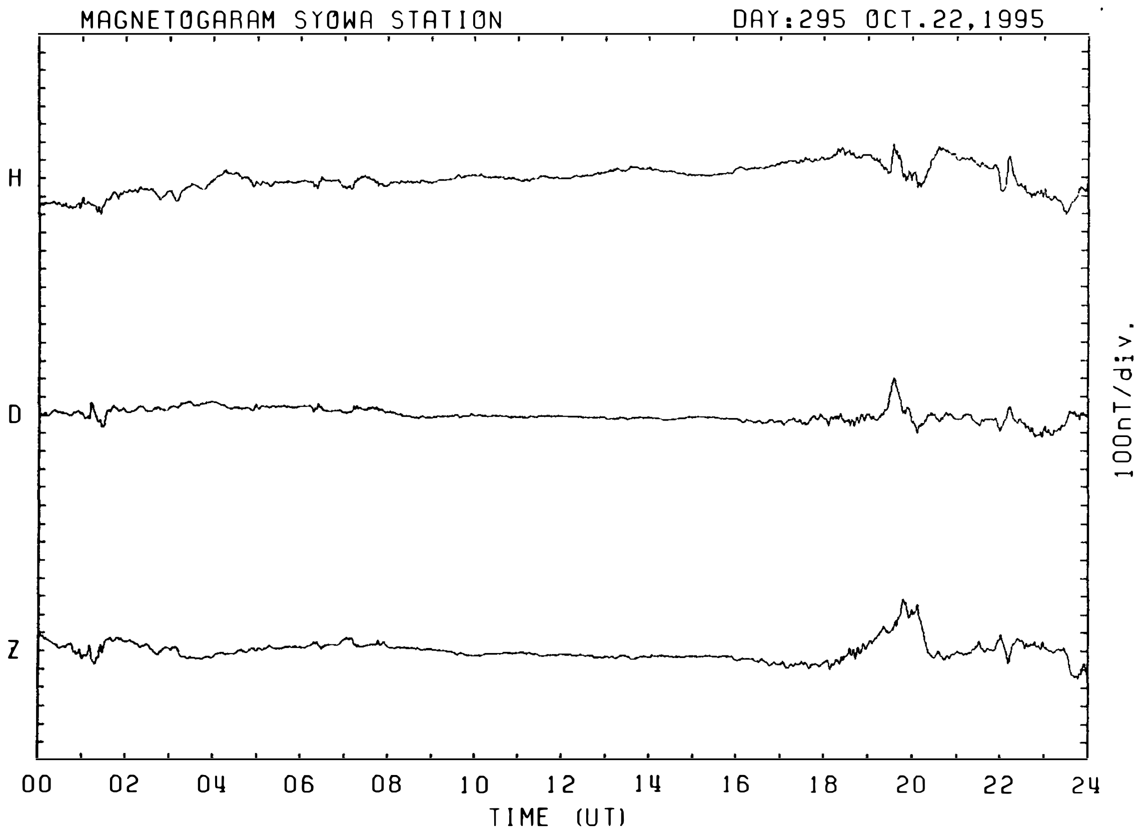
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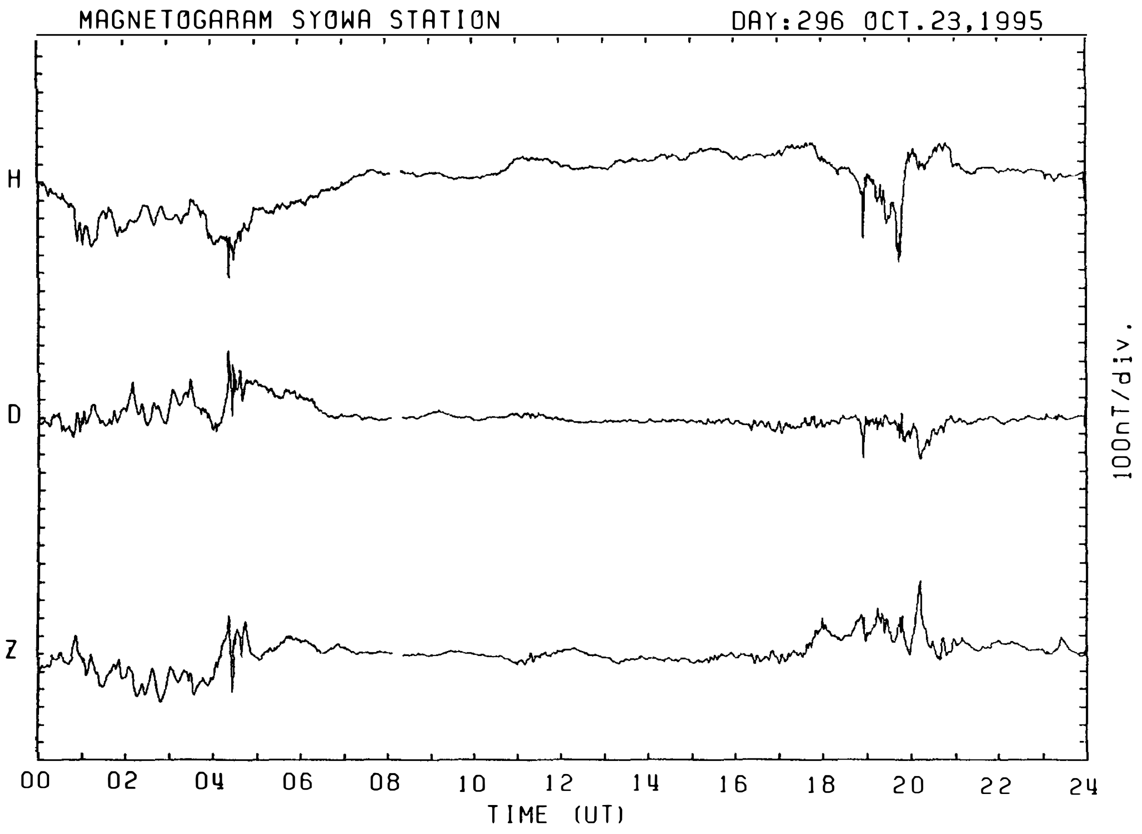
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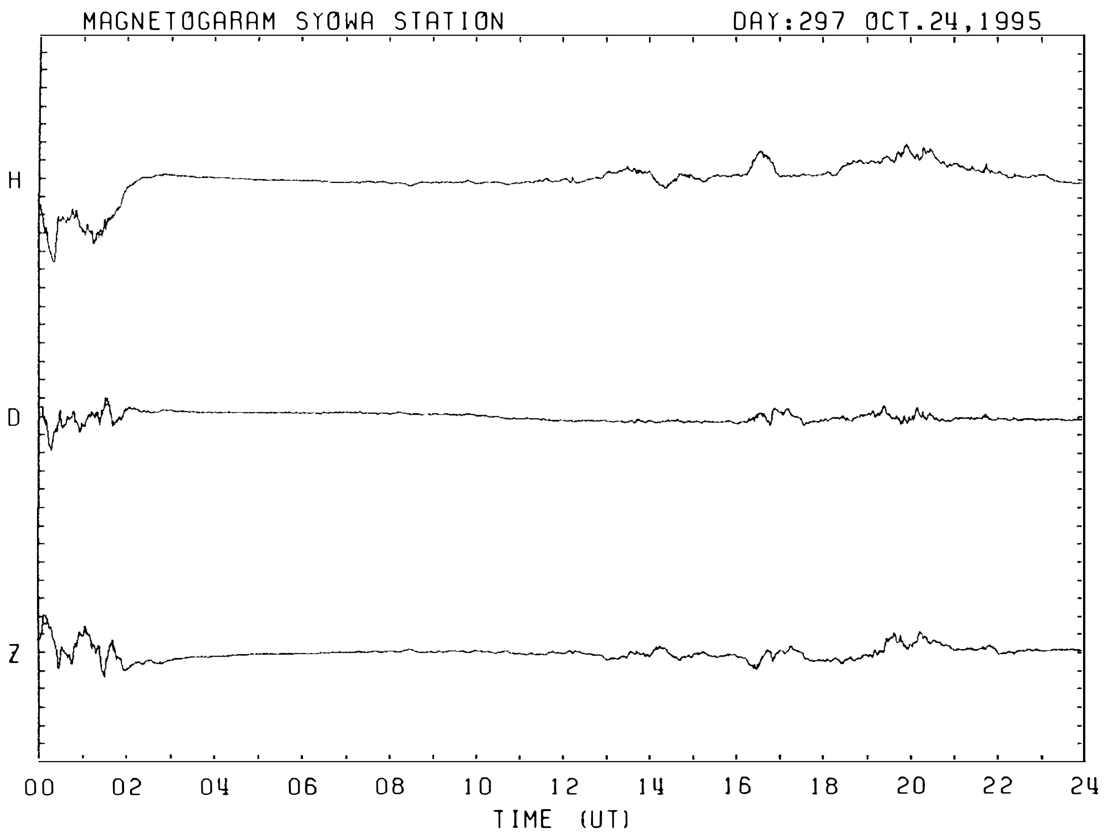
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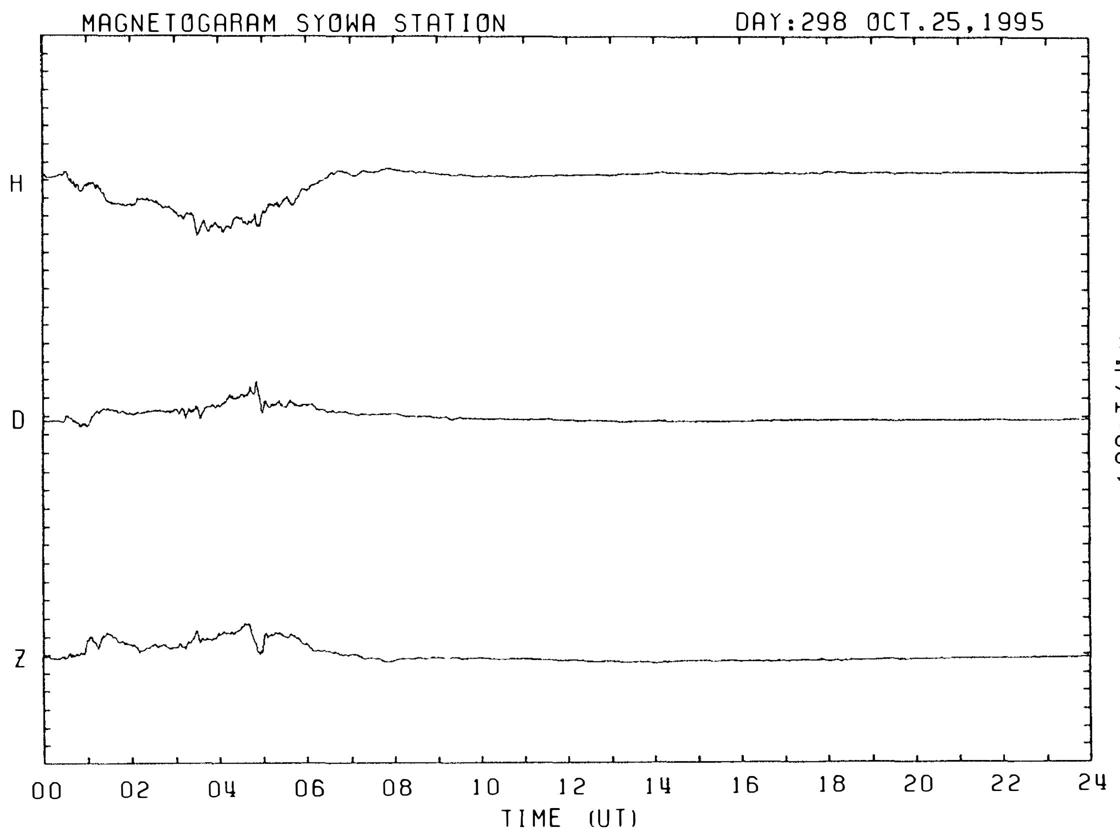
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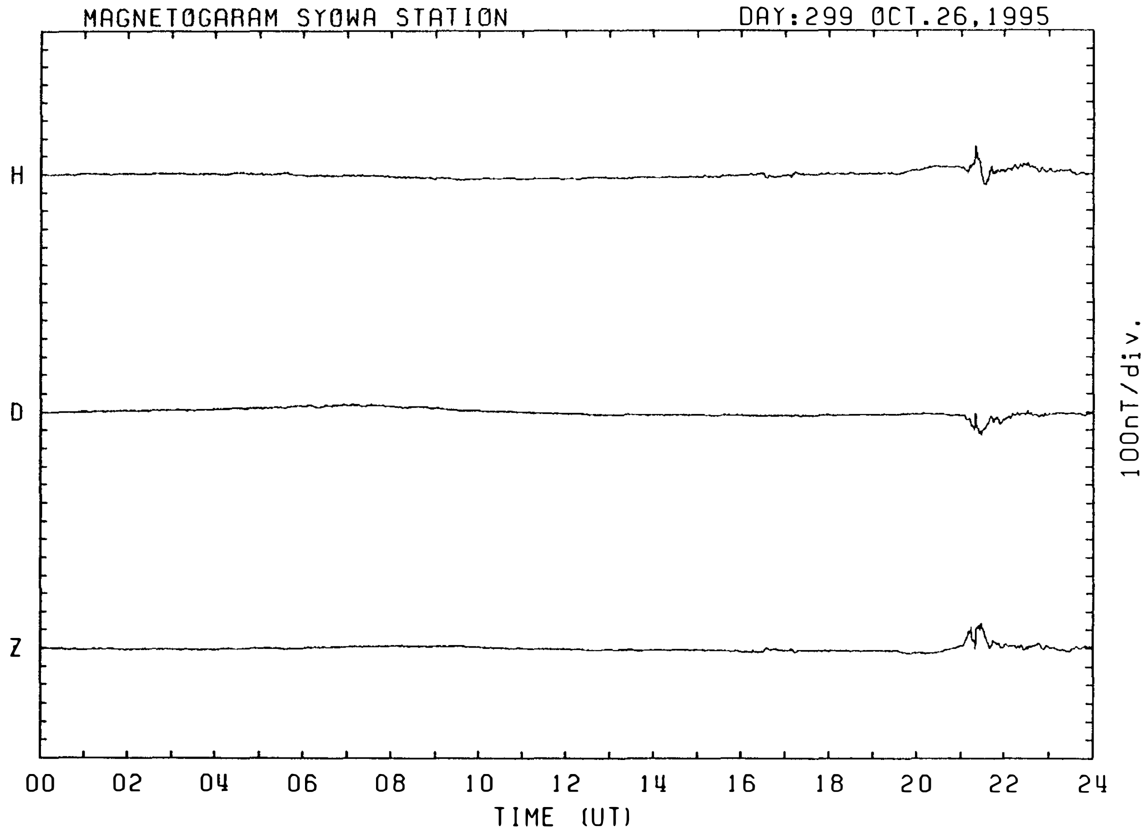
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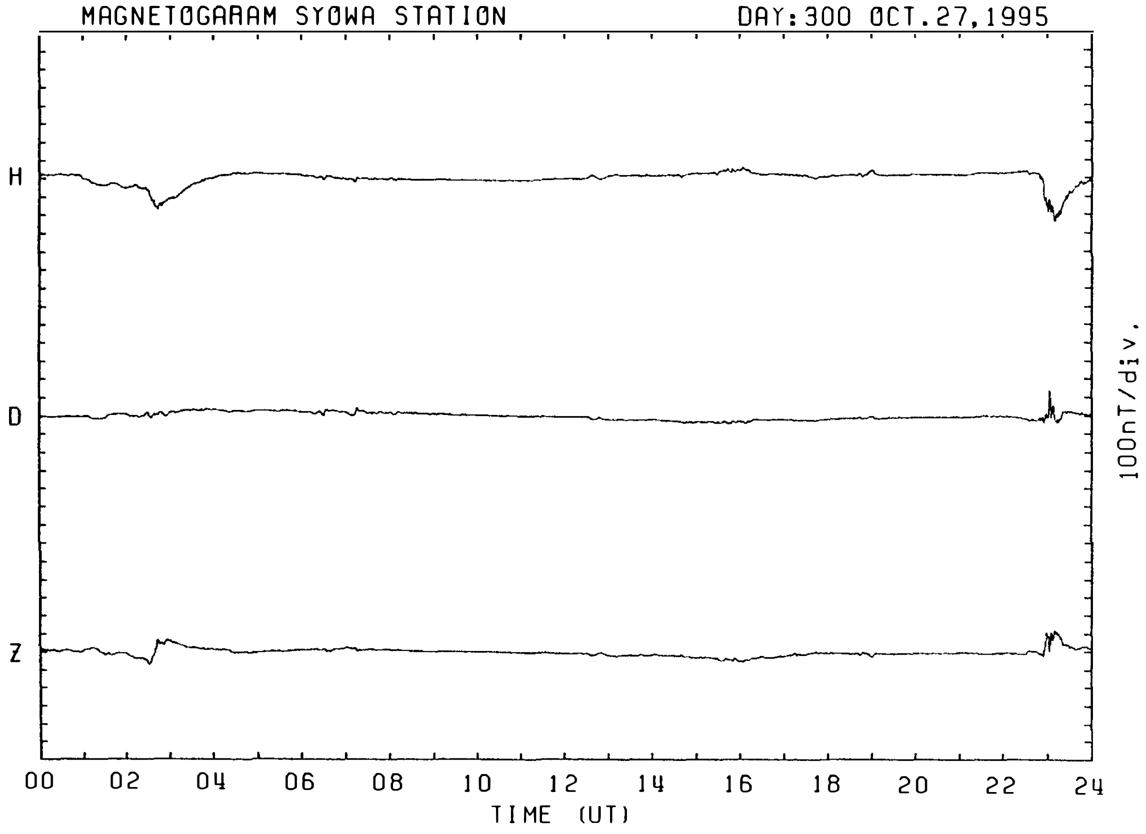
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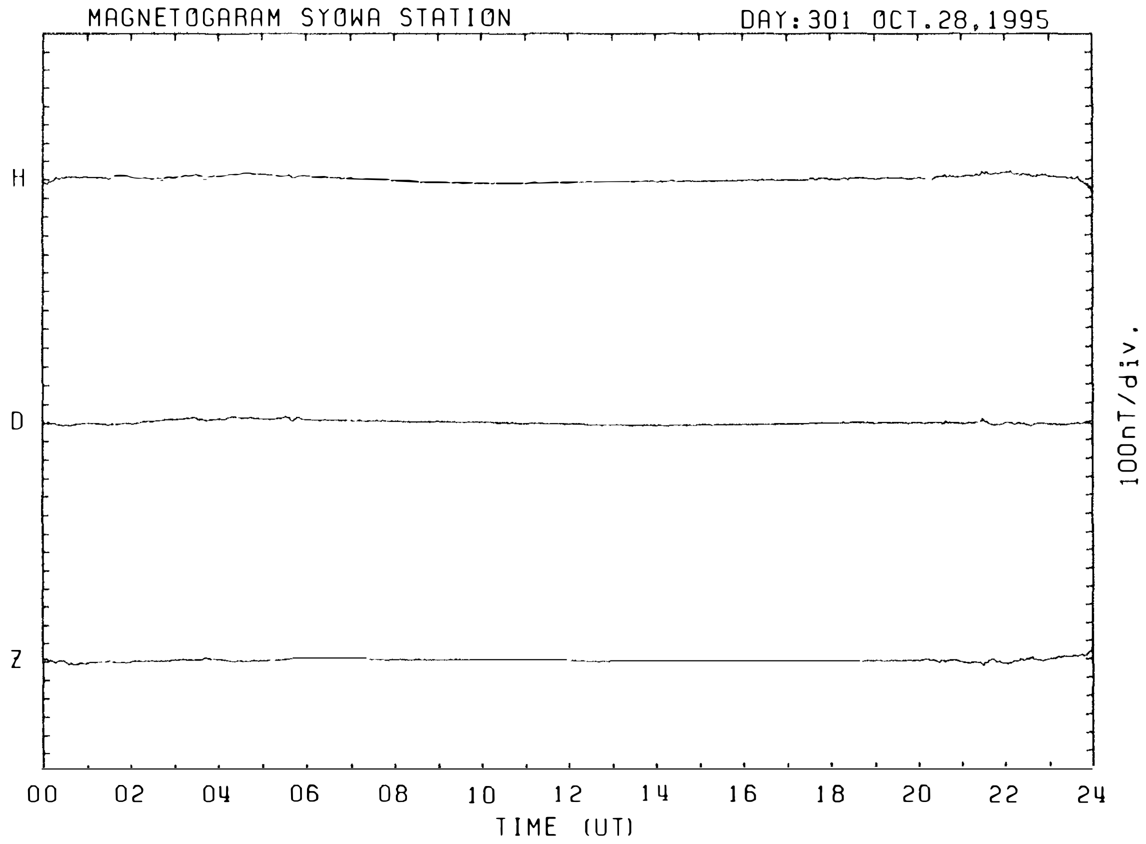
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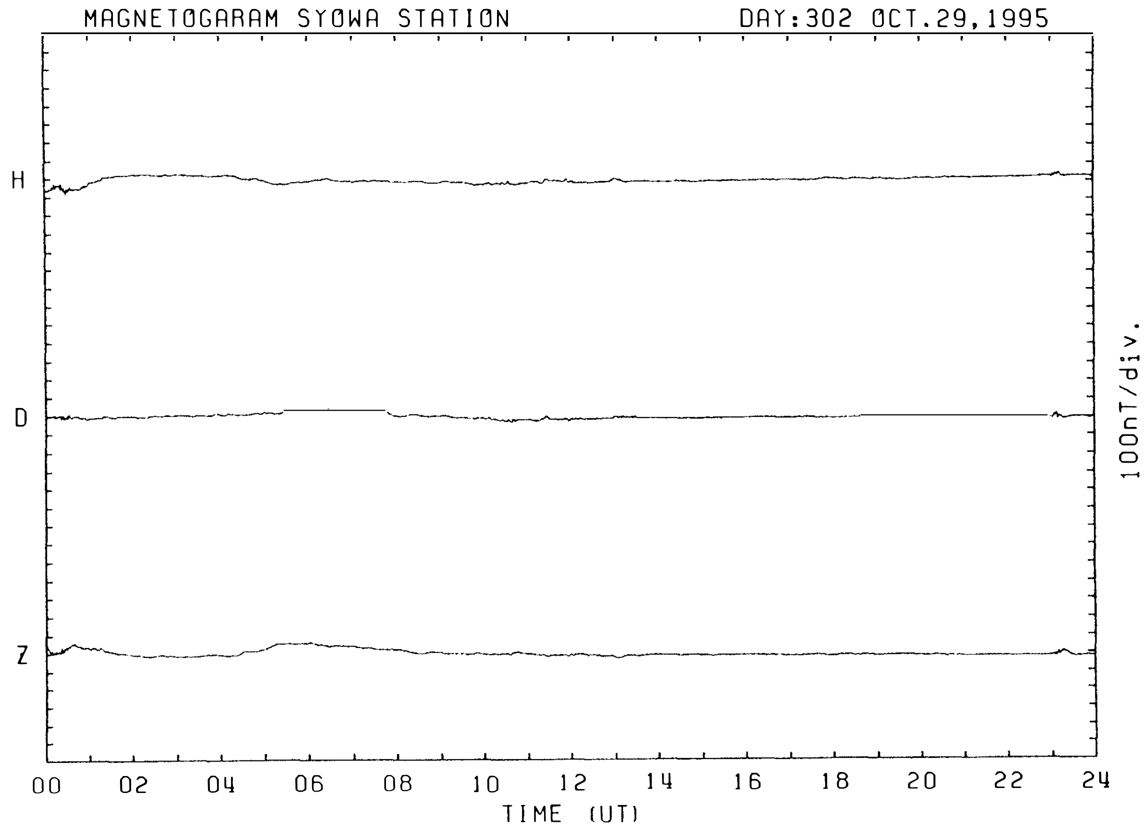
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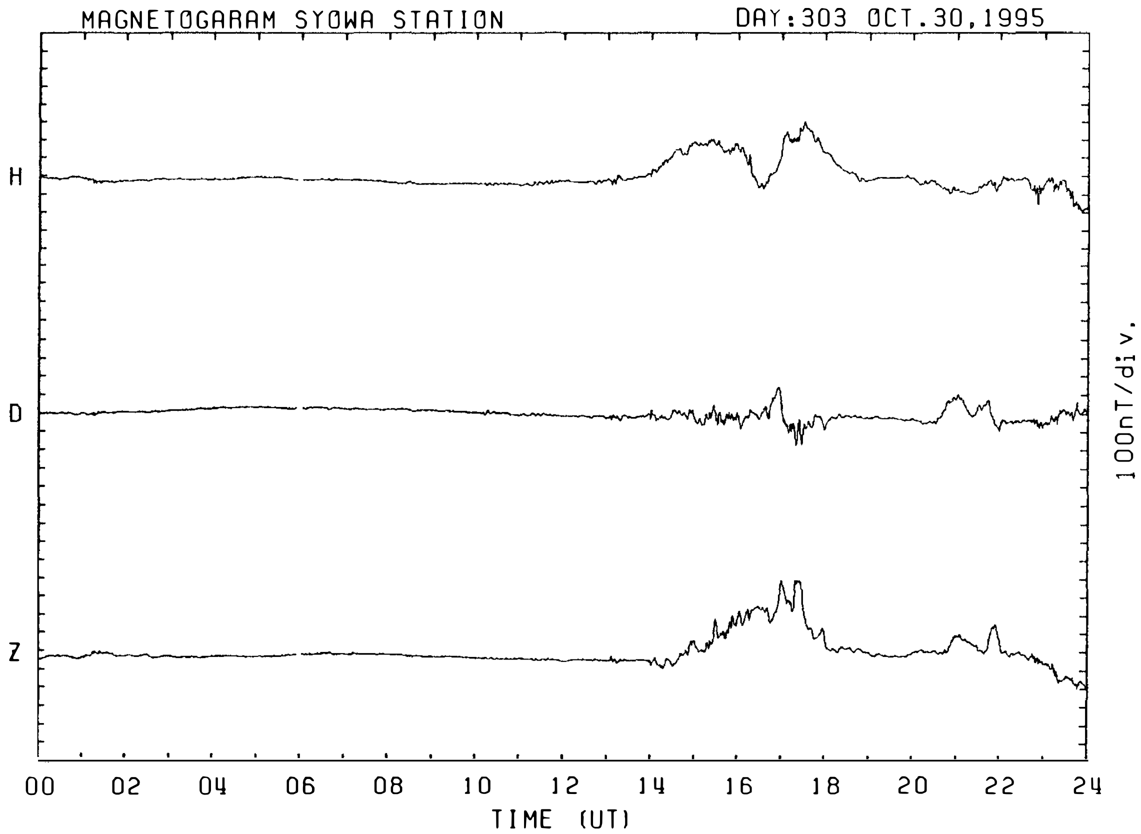
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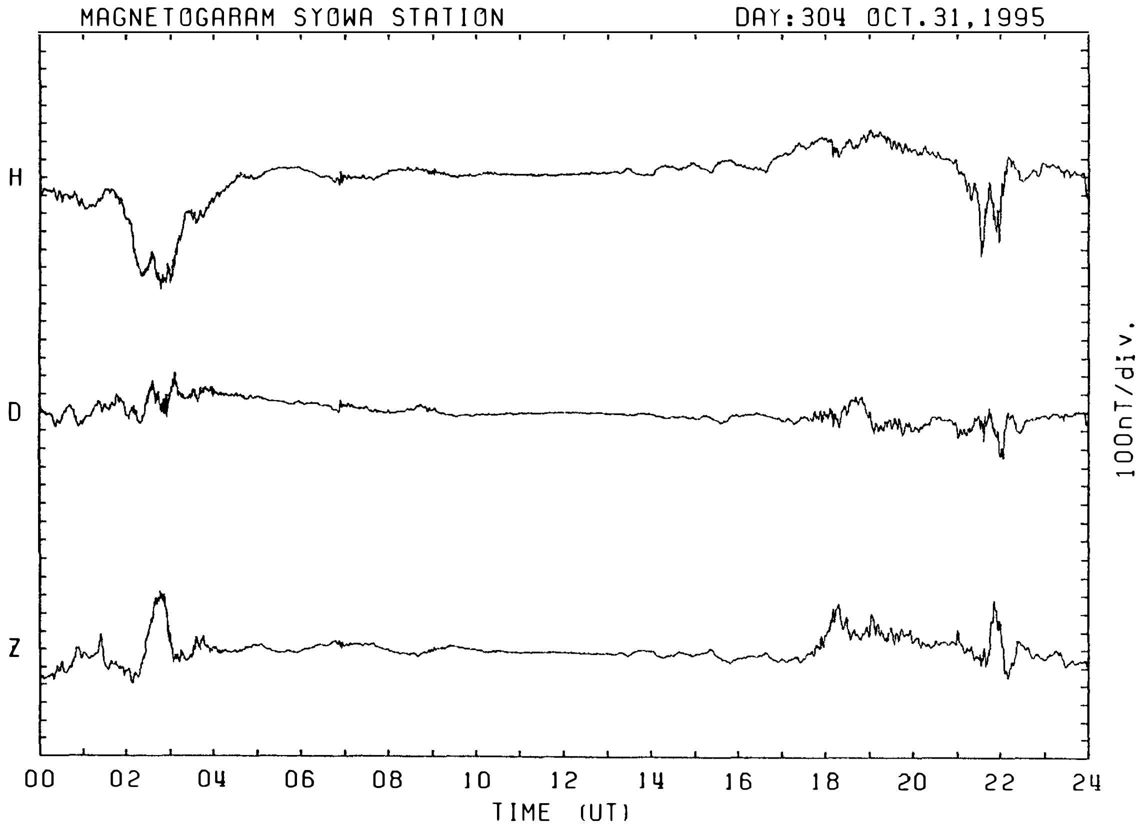
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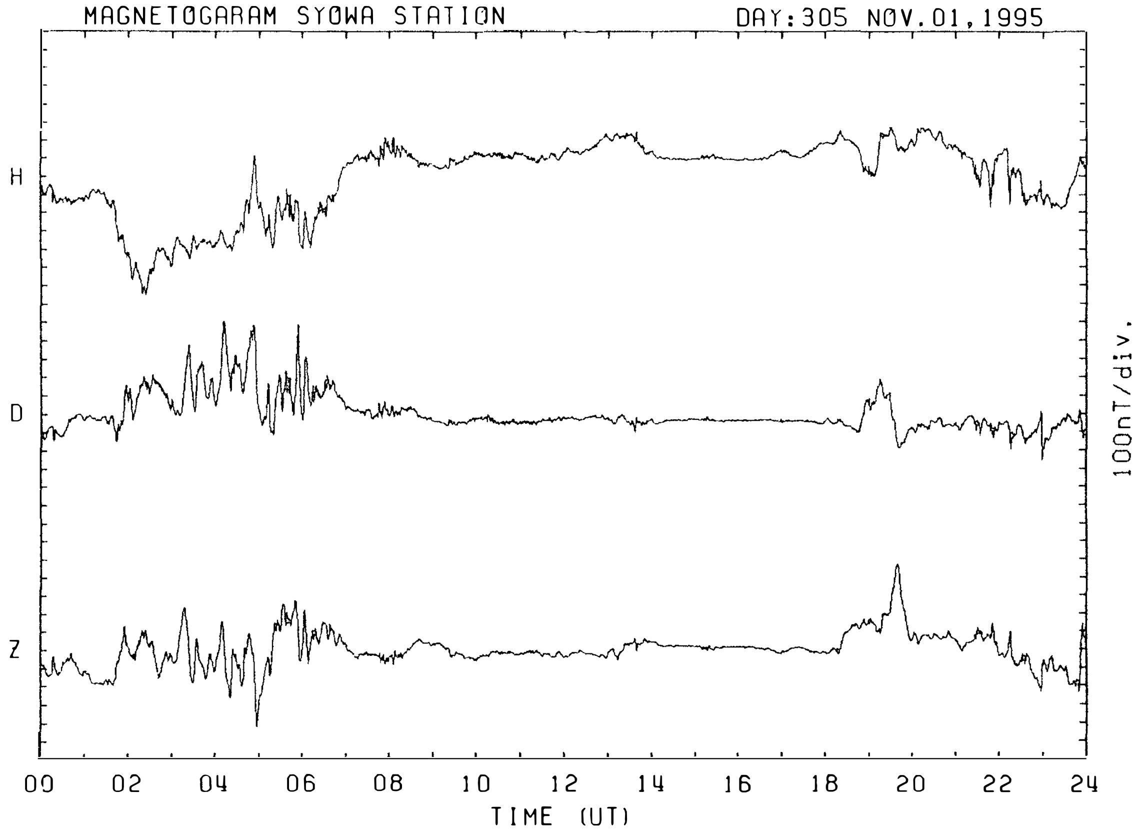
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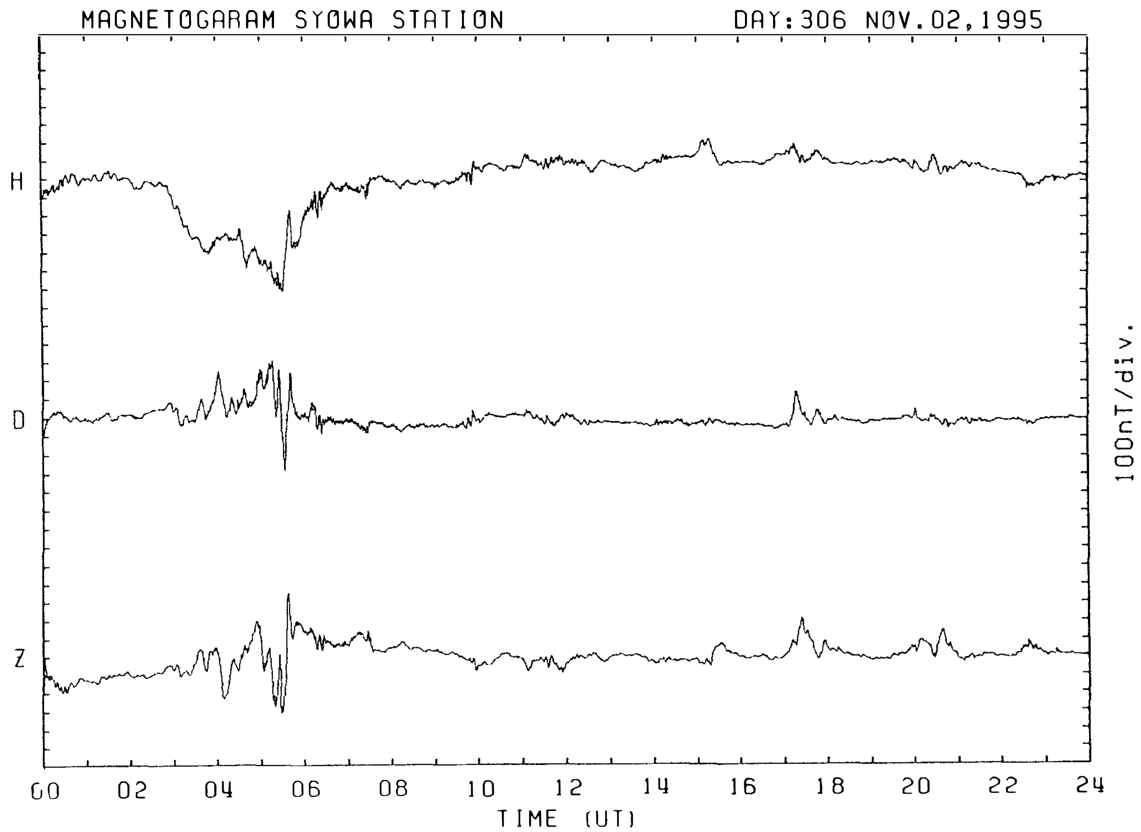
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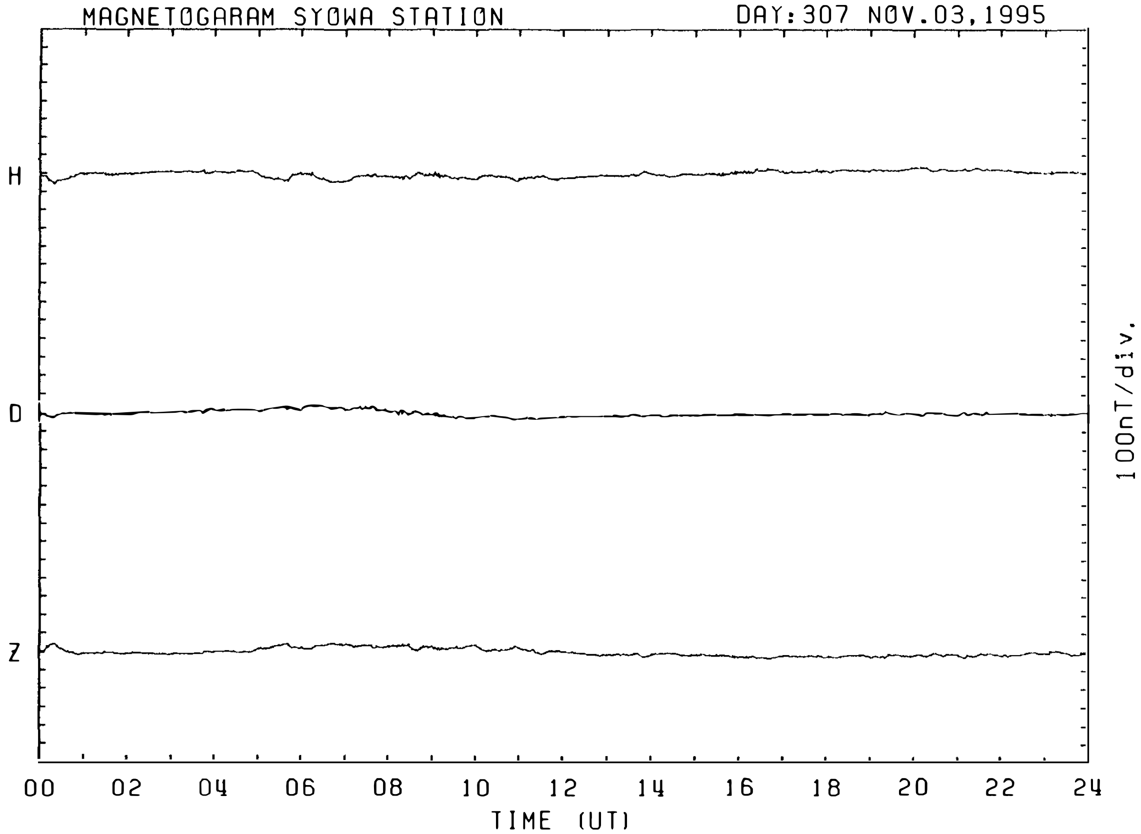
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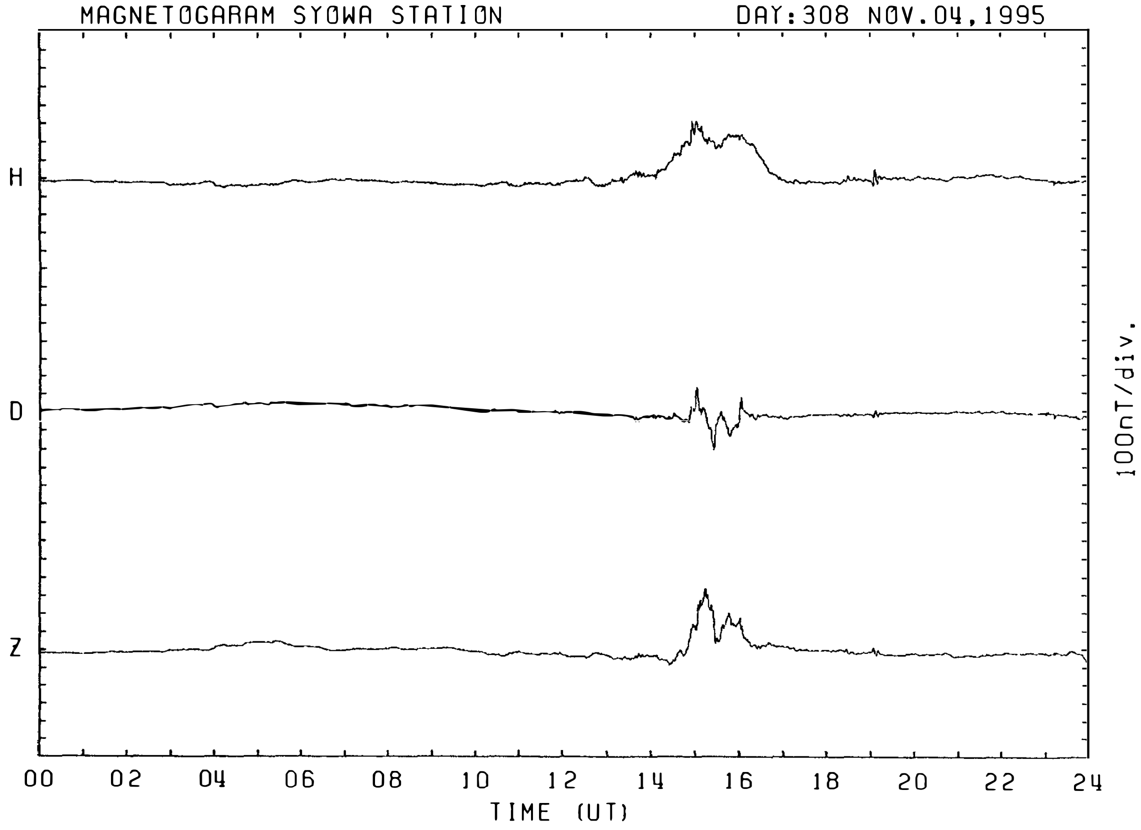
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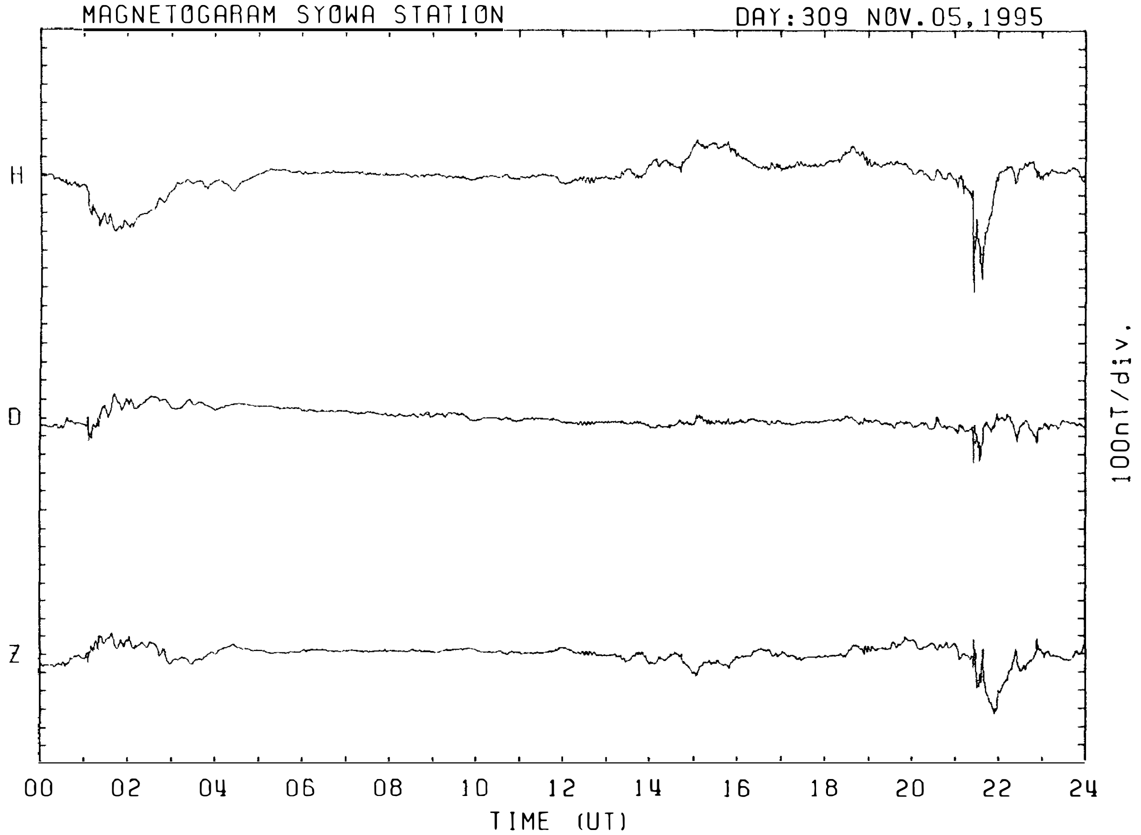
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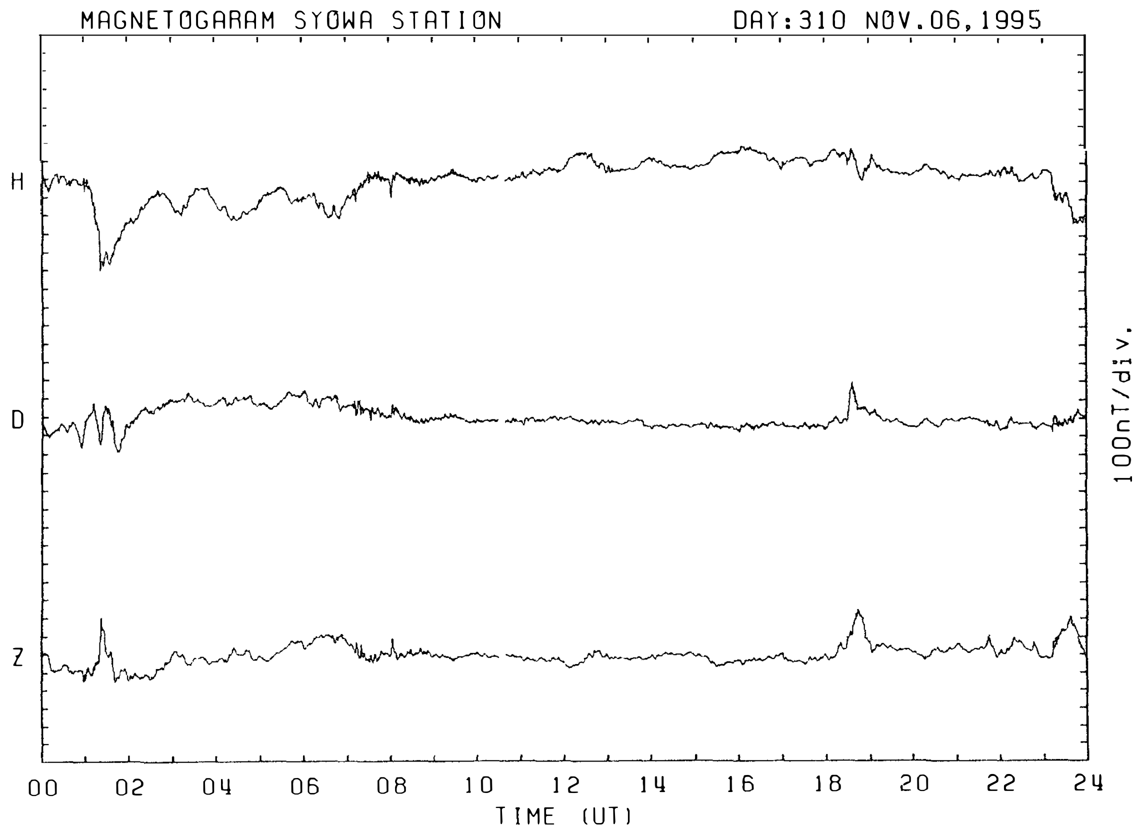
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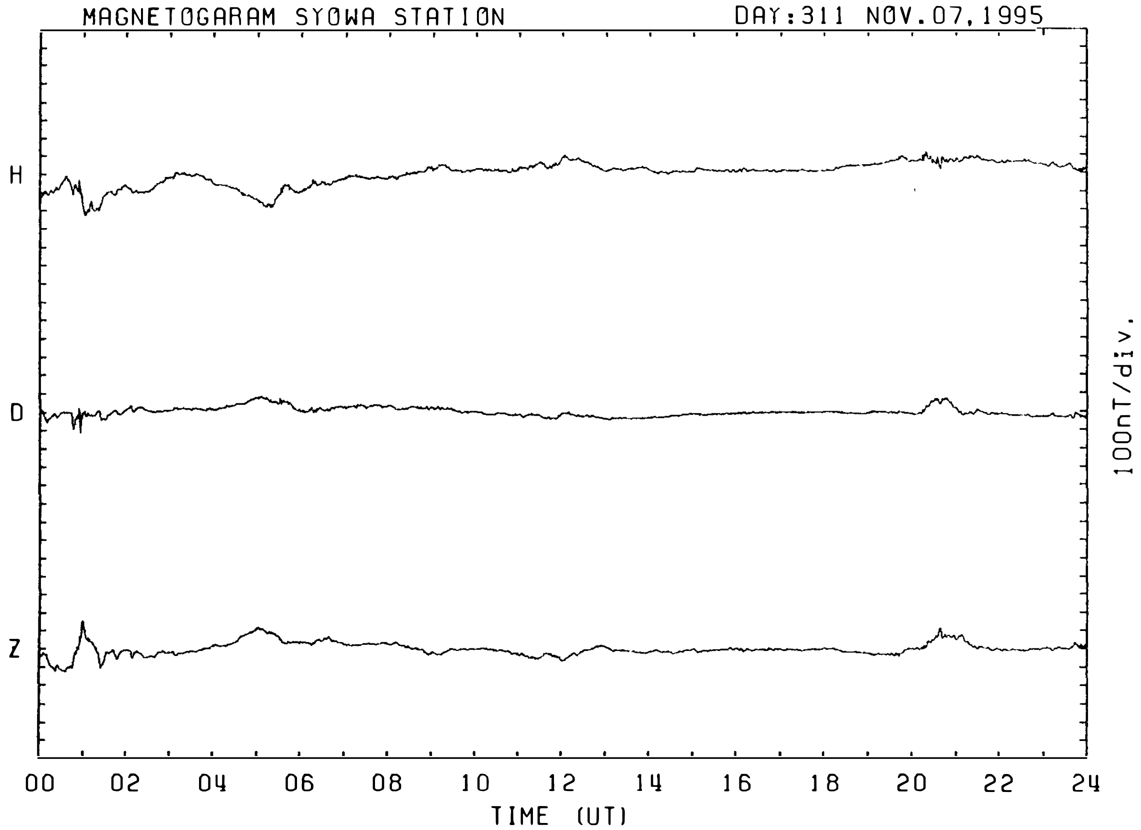
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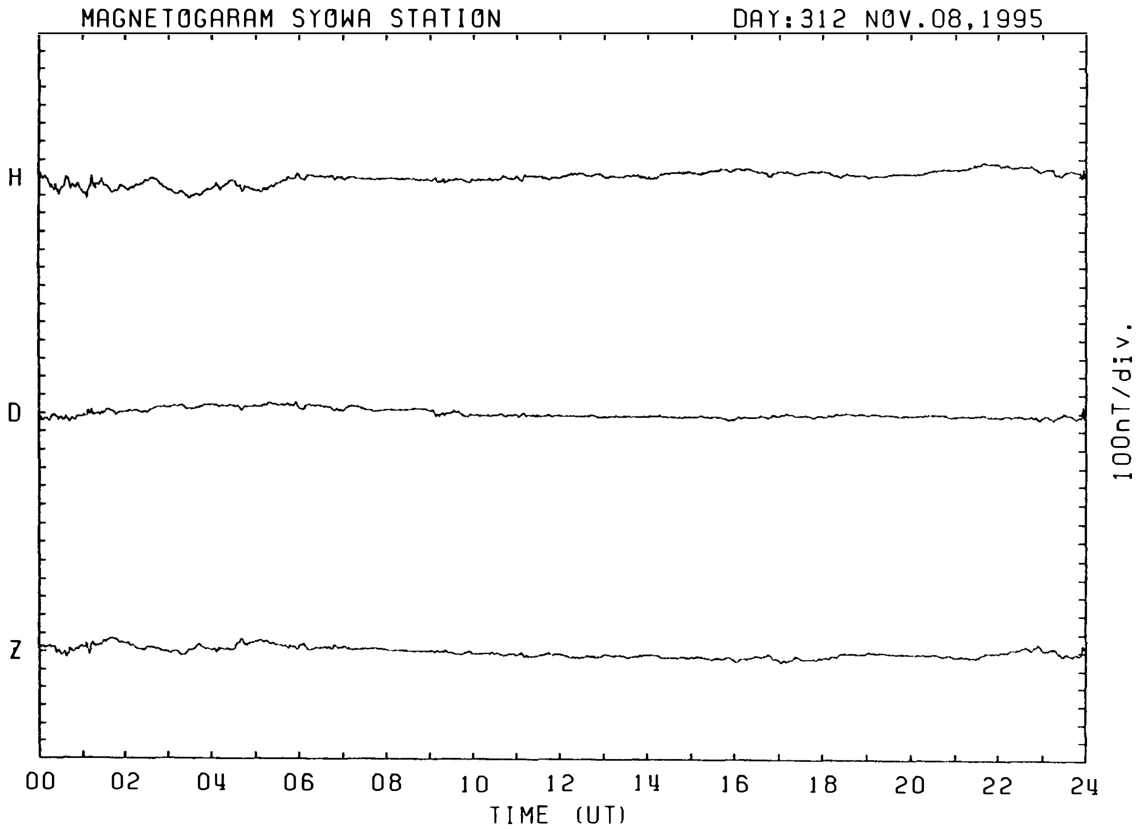
TIME (UT)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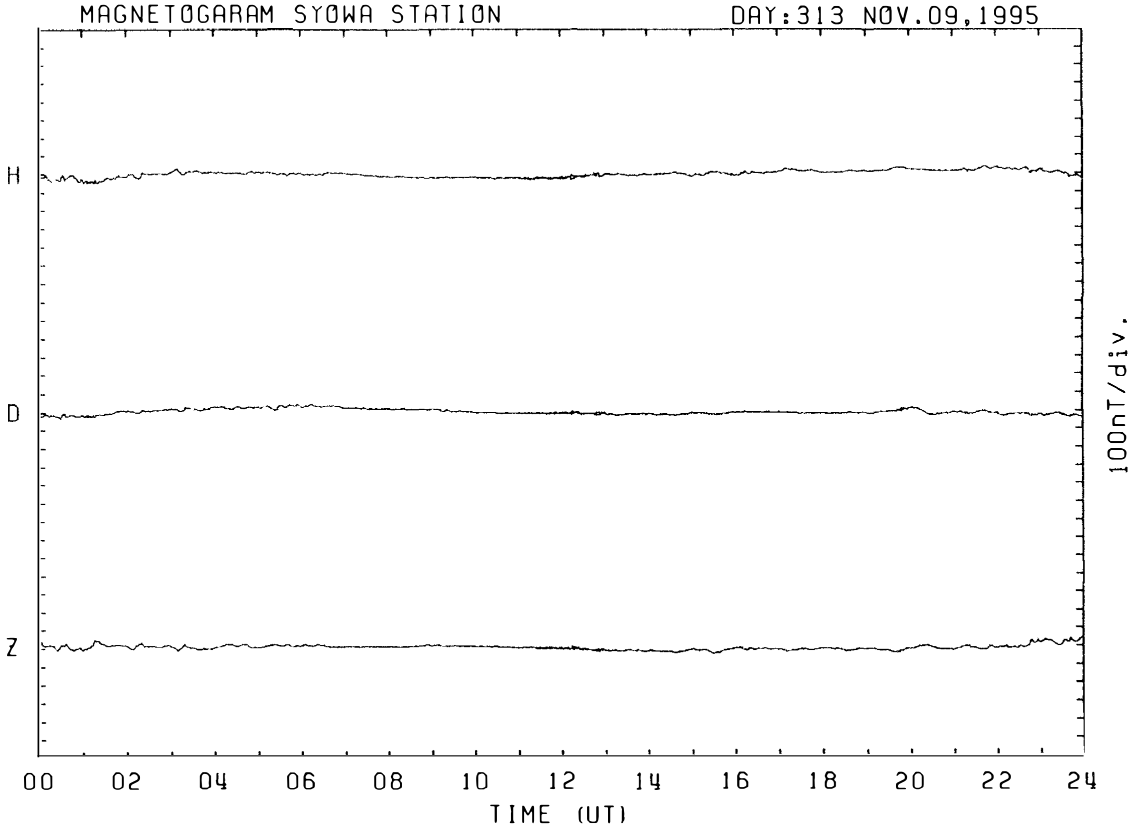
TIME (UT)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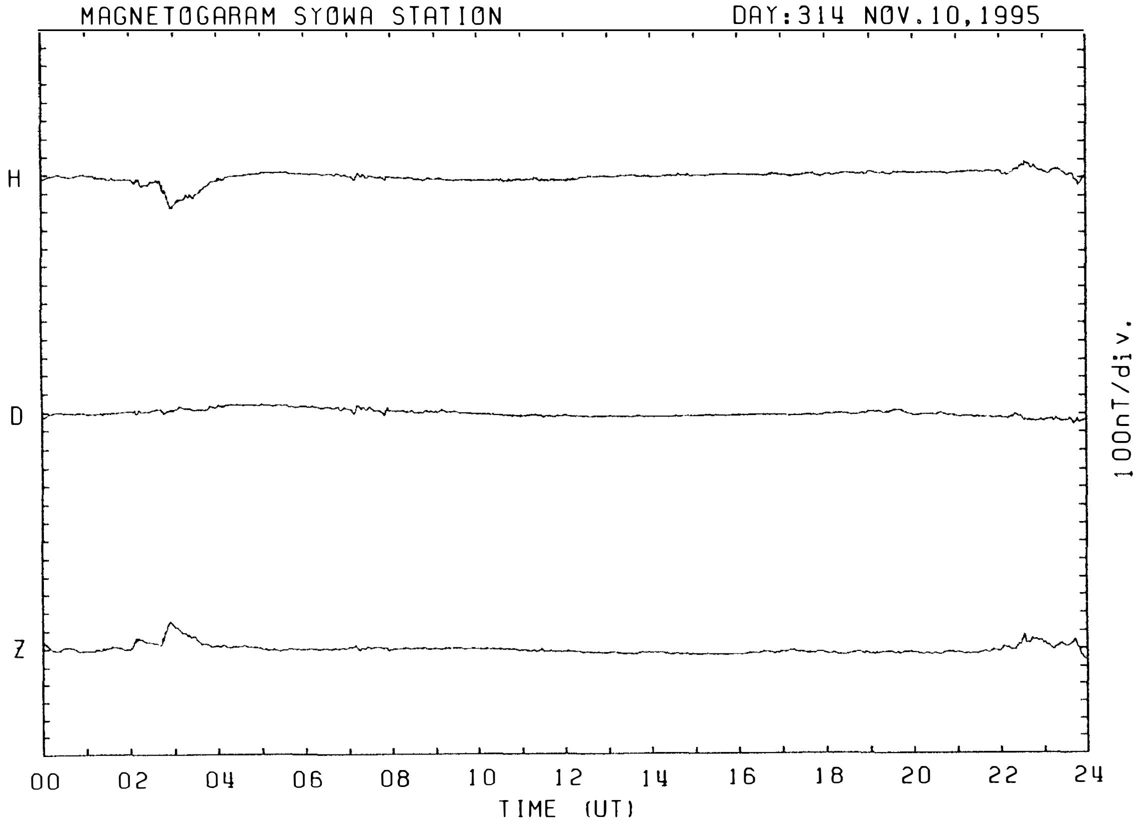
TIME (UT)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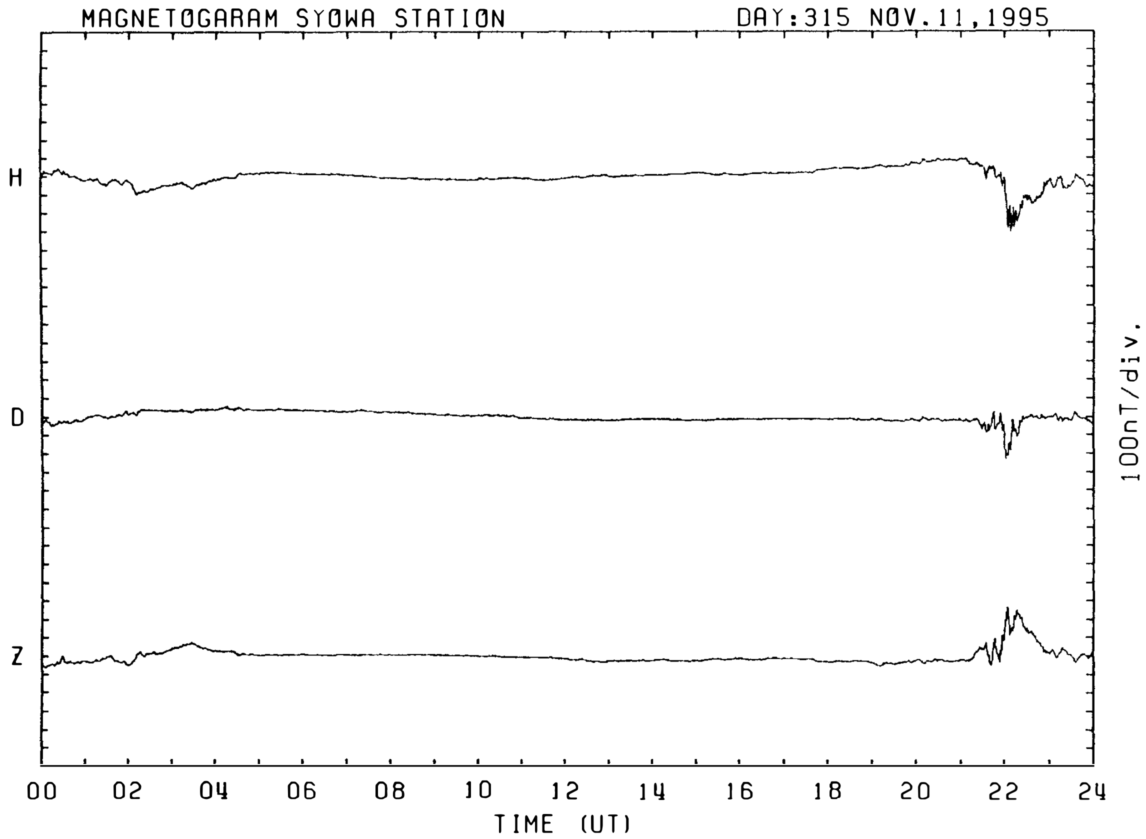
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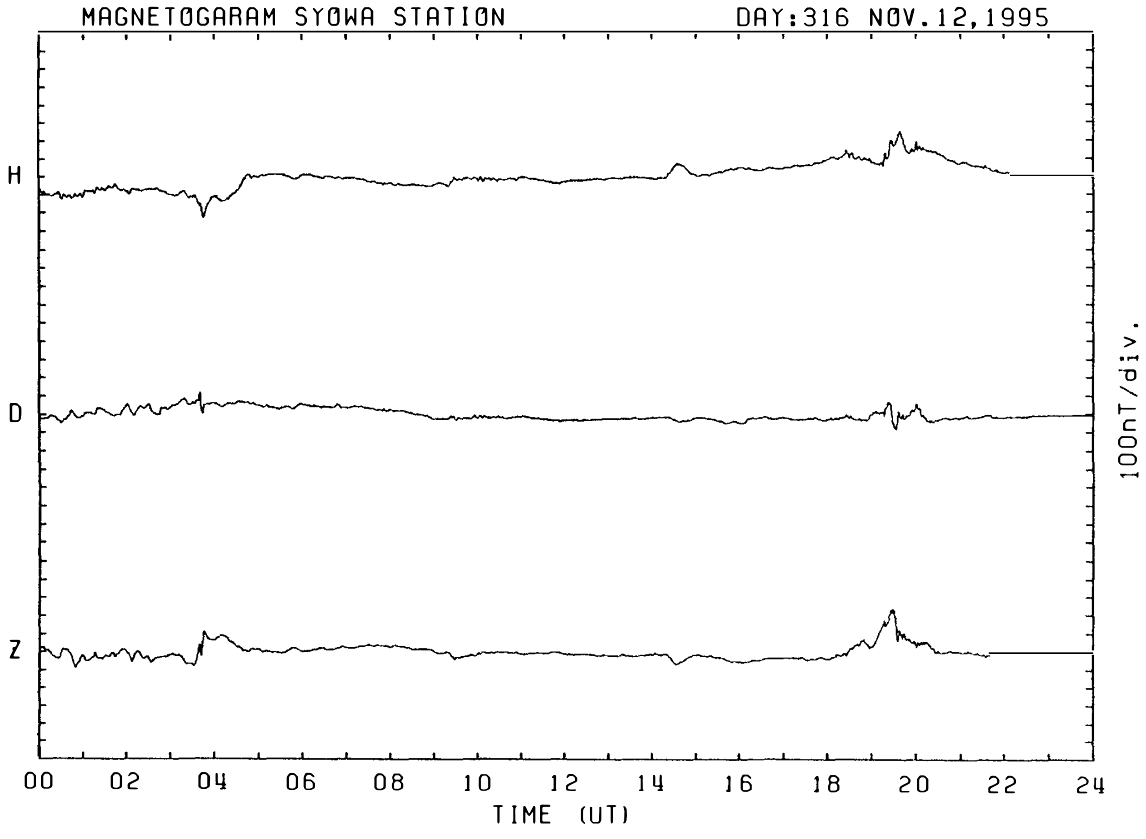
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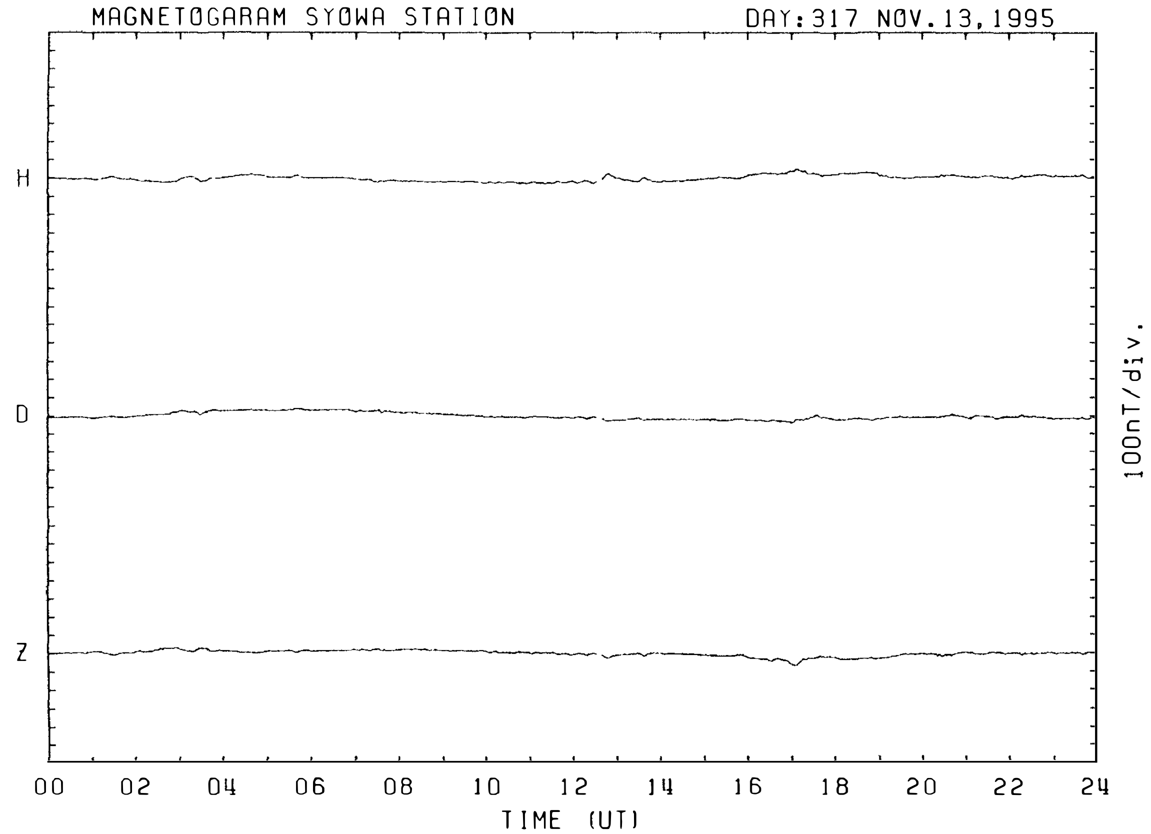
TIME (UT)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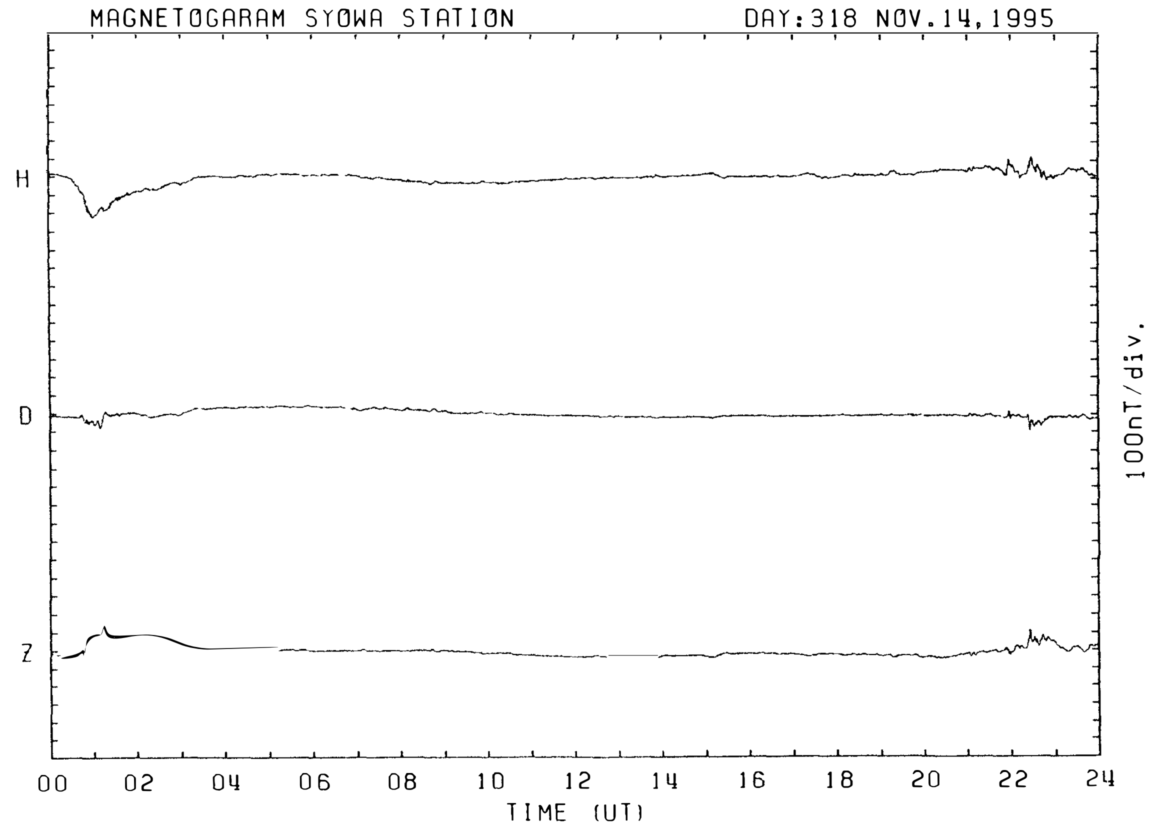
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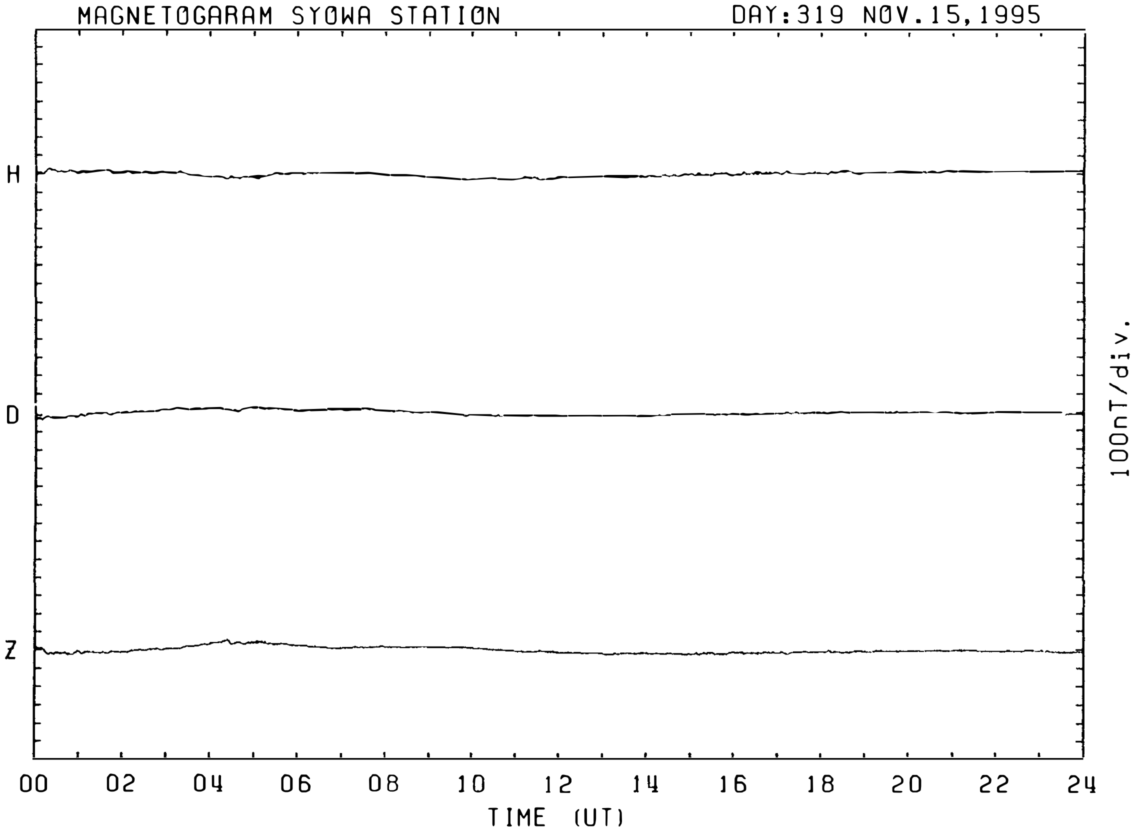
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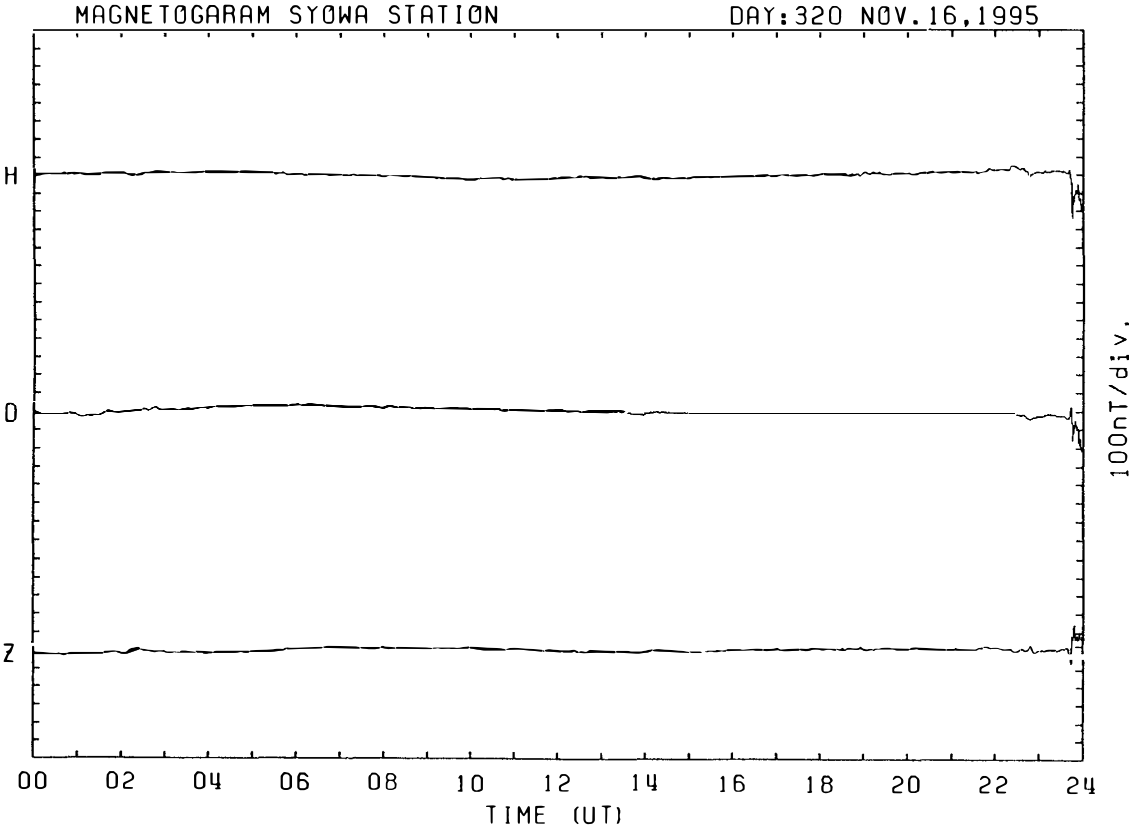
TIME (UT)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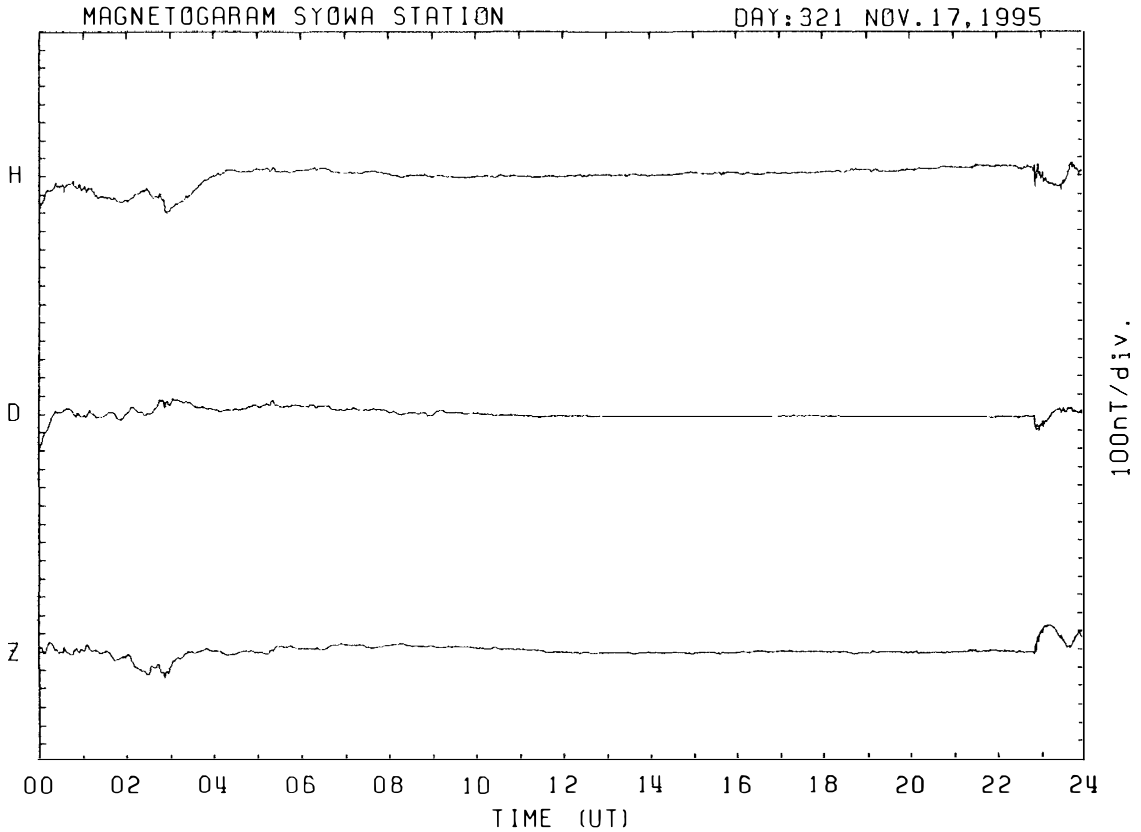
TIME (UT)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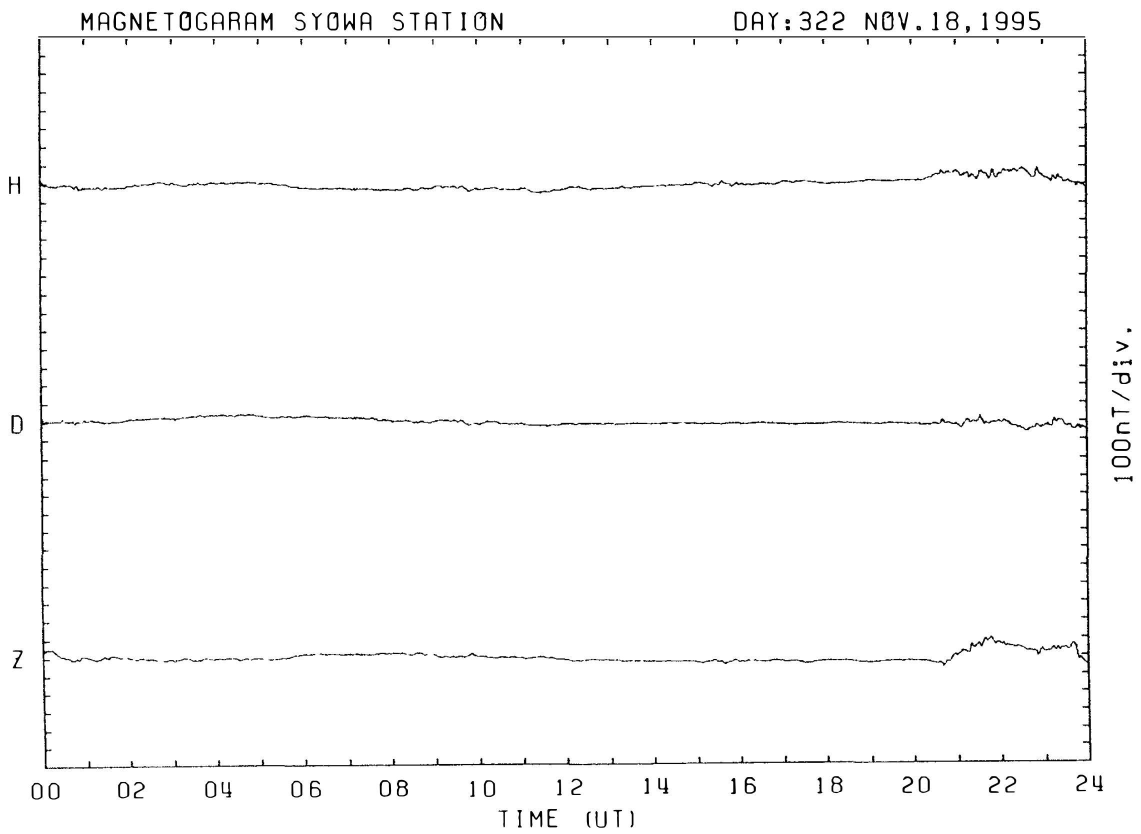
TIME (UT)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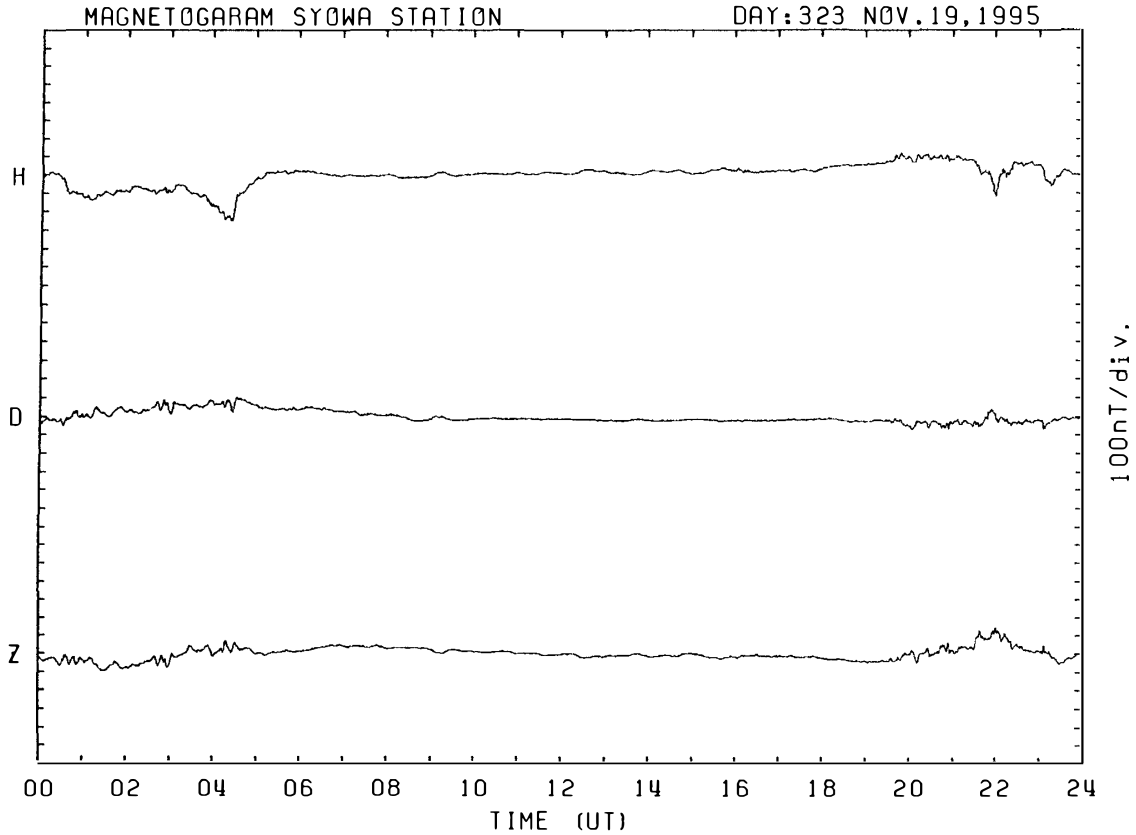
TIME (UT)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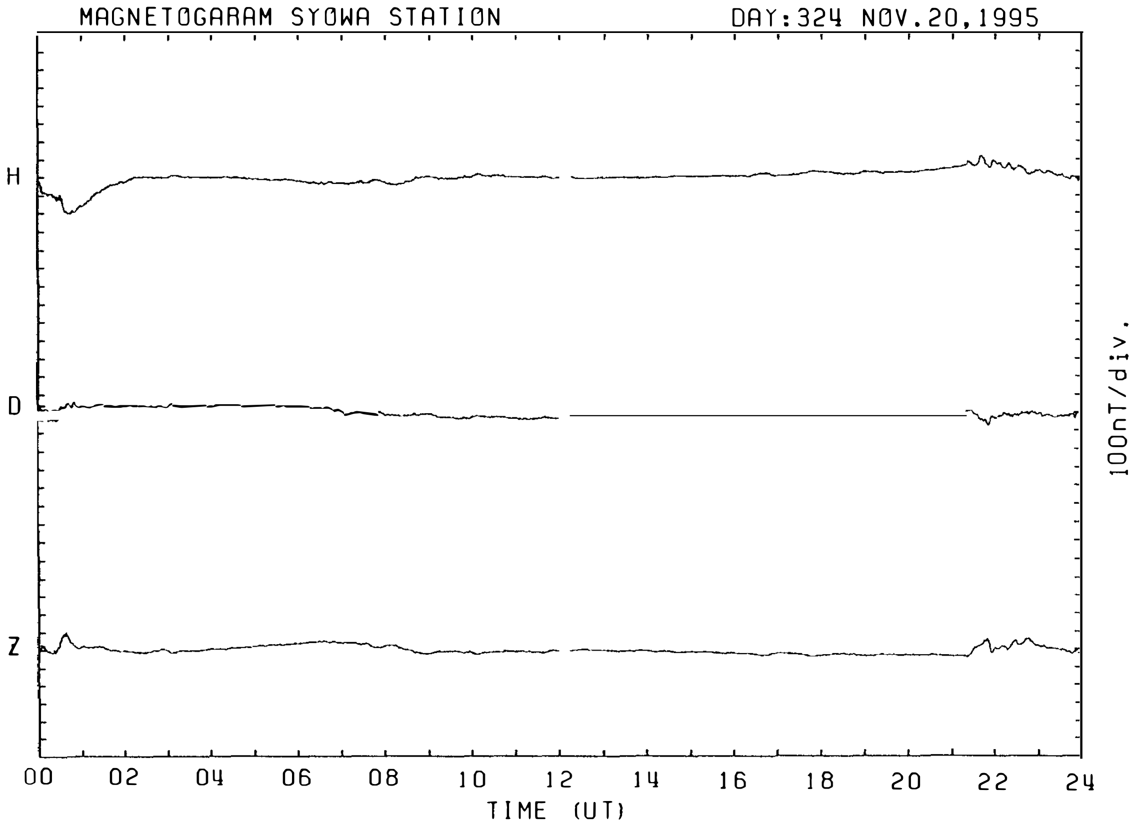
TIME (UT)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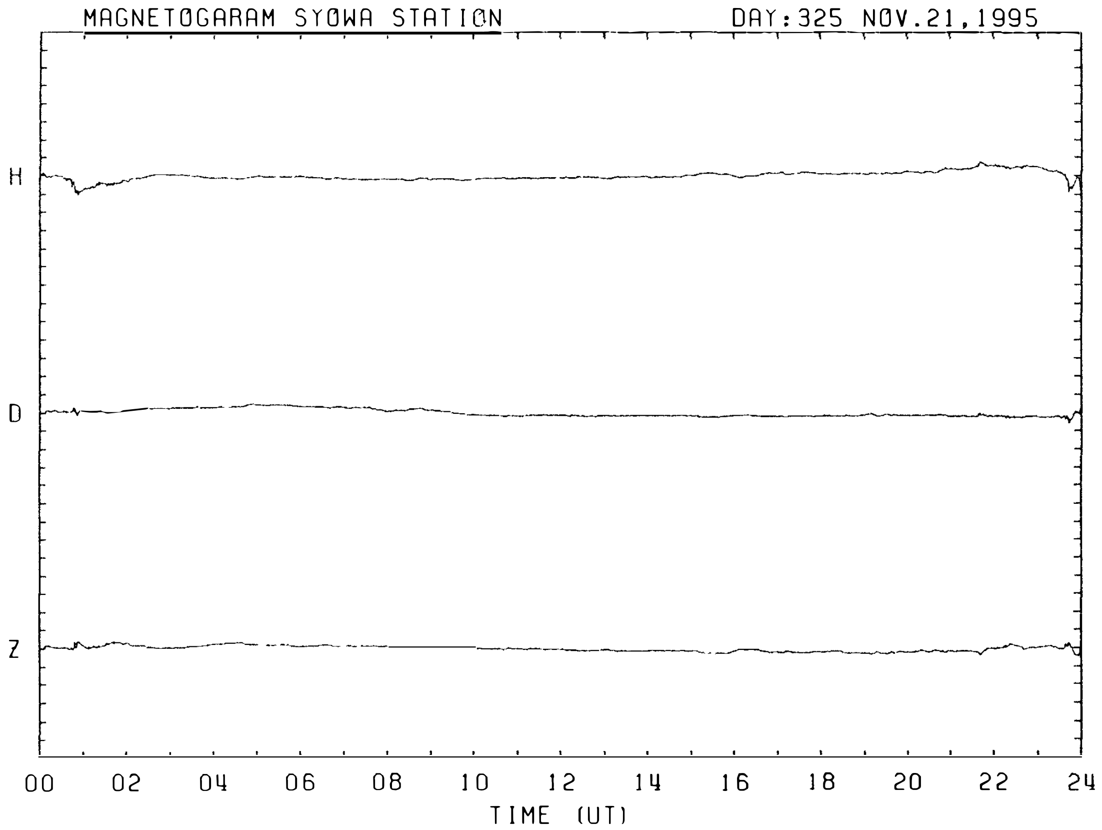
TIME (UT)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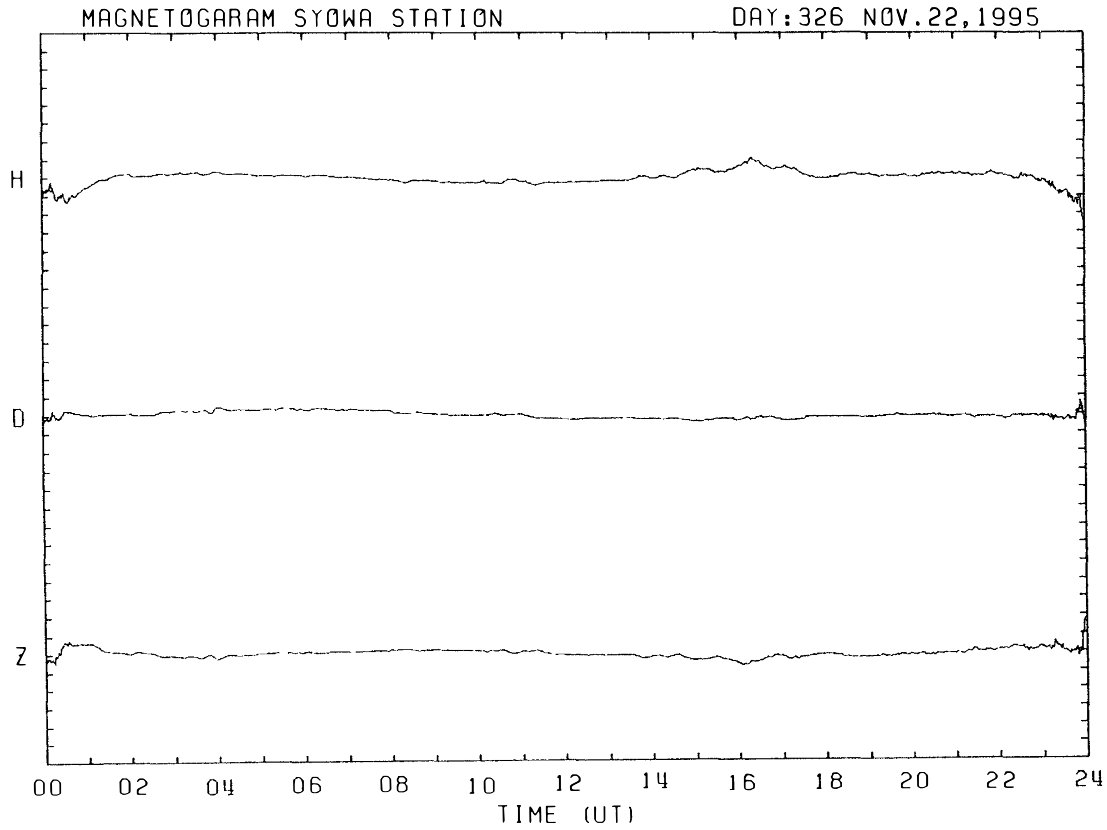
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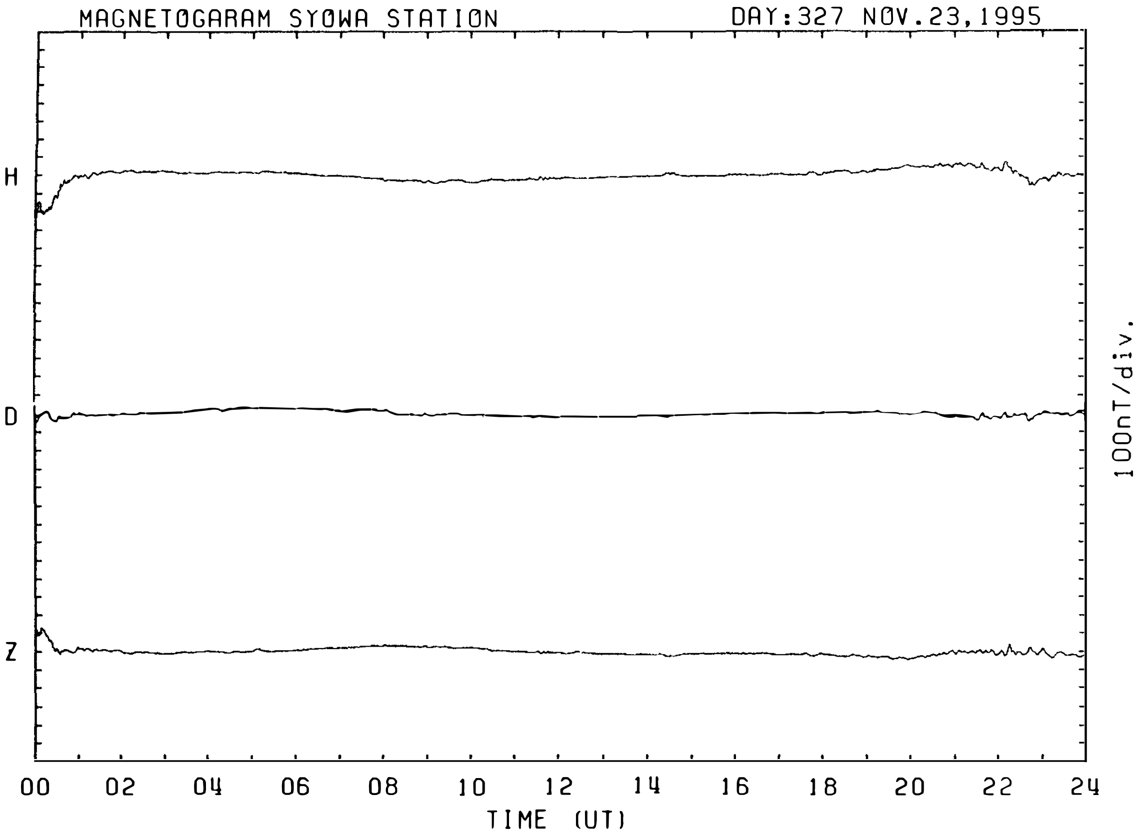
TIME (UT)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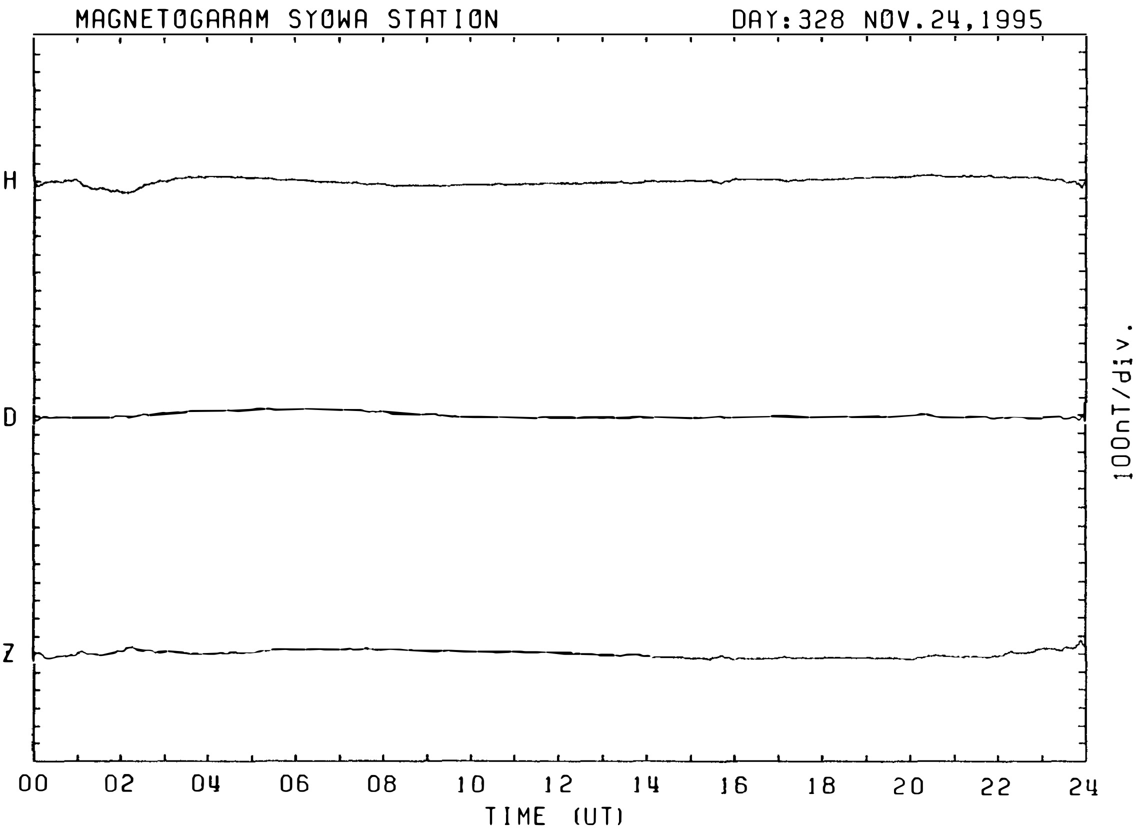
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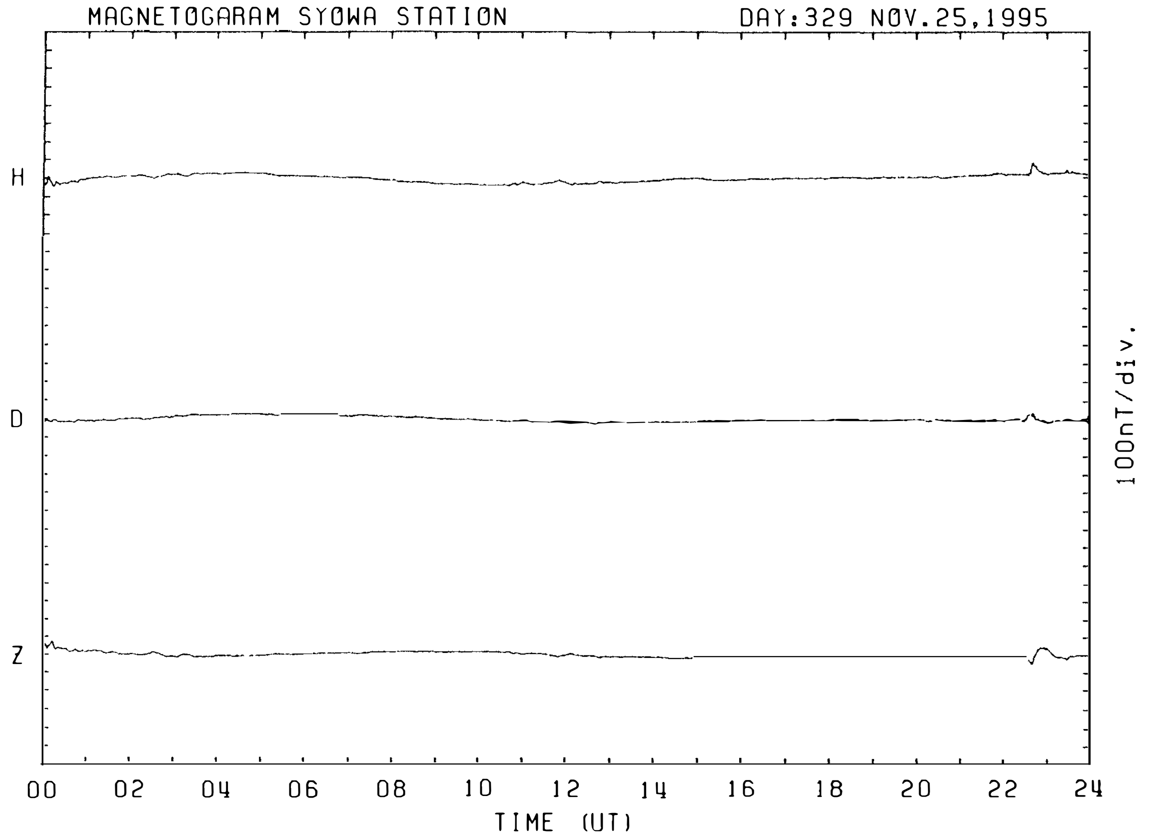
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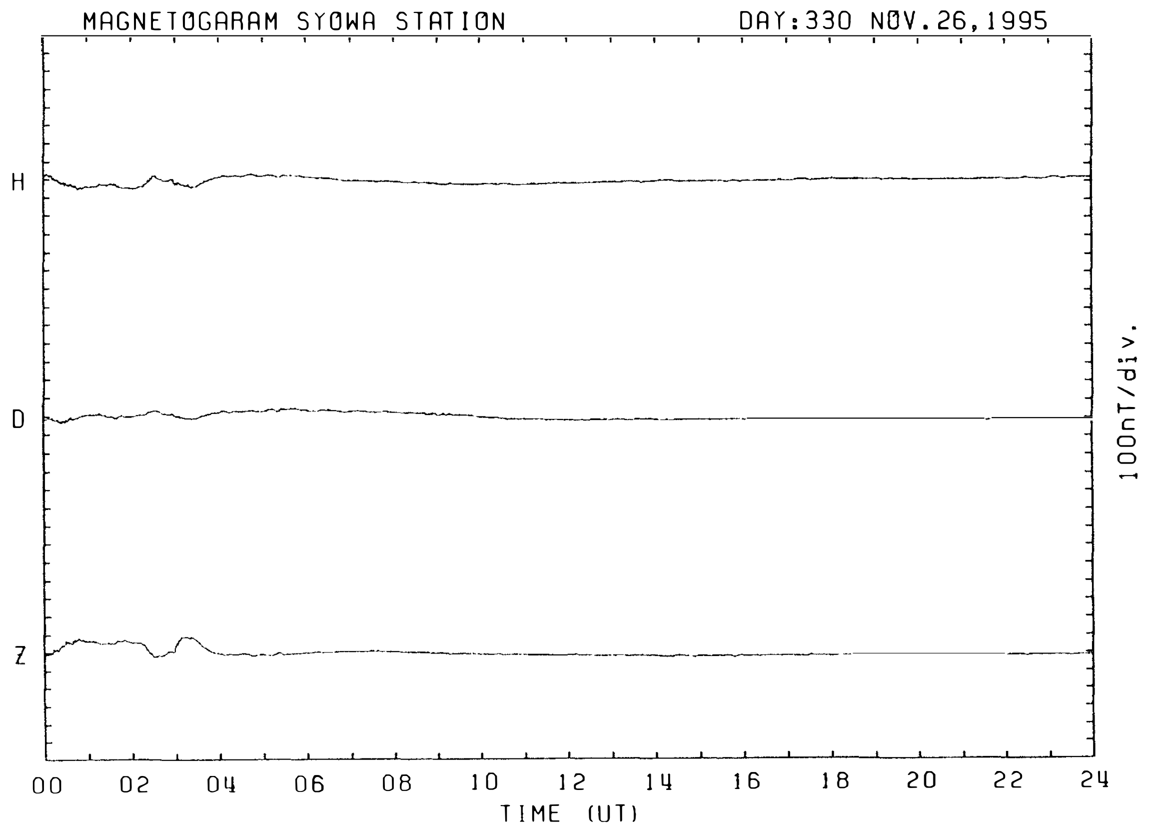
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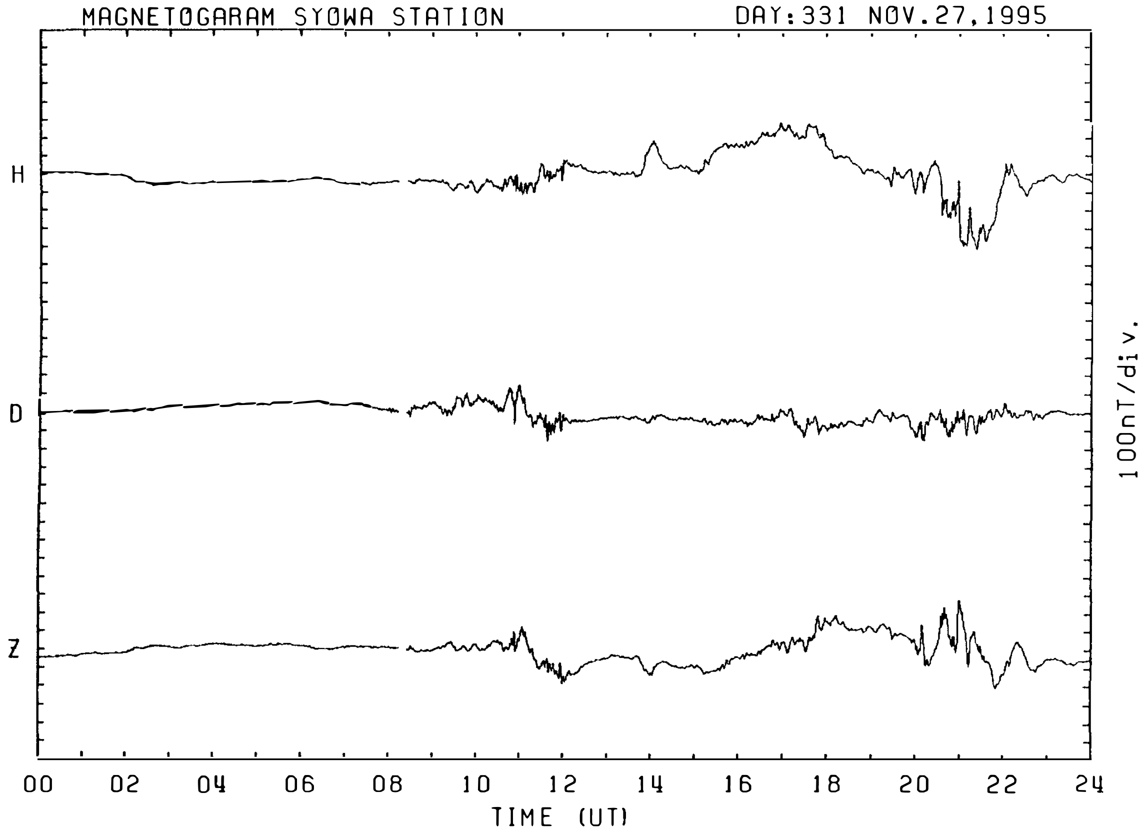
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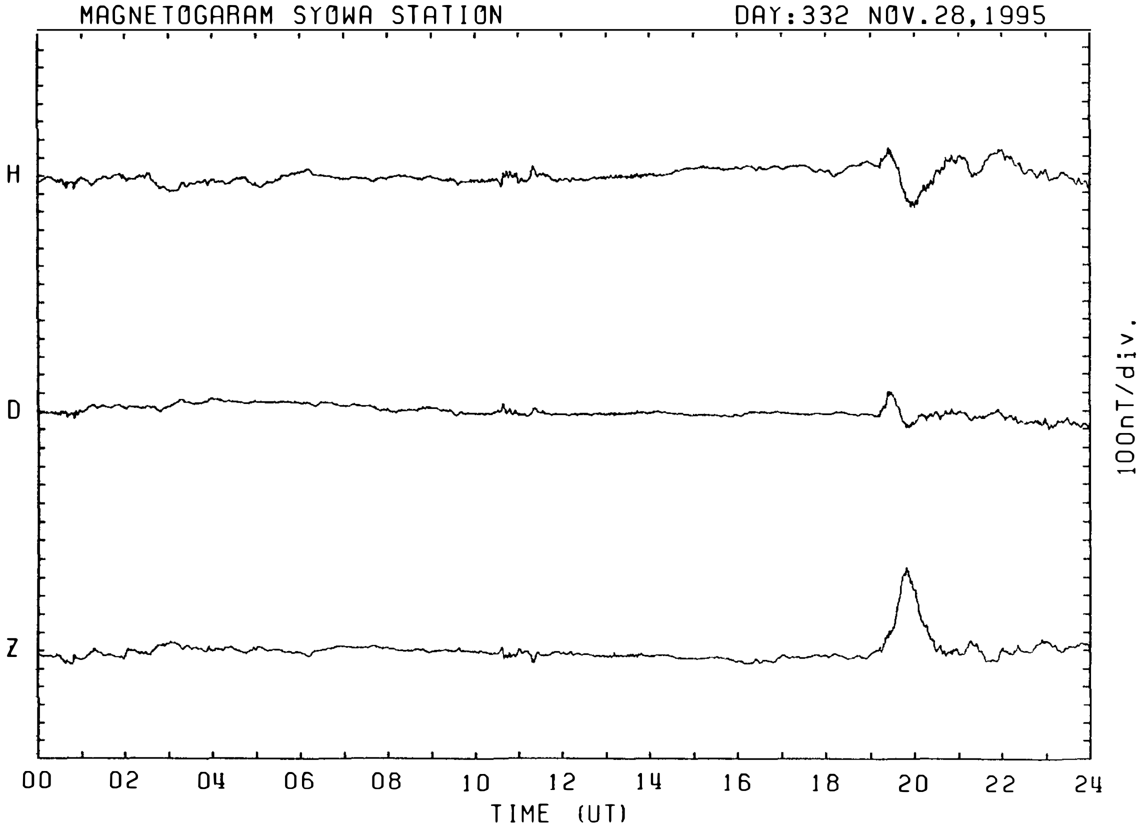
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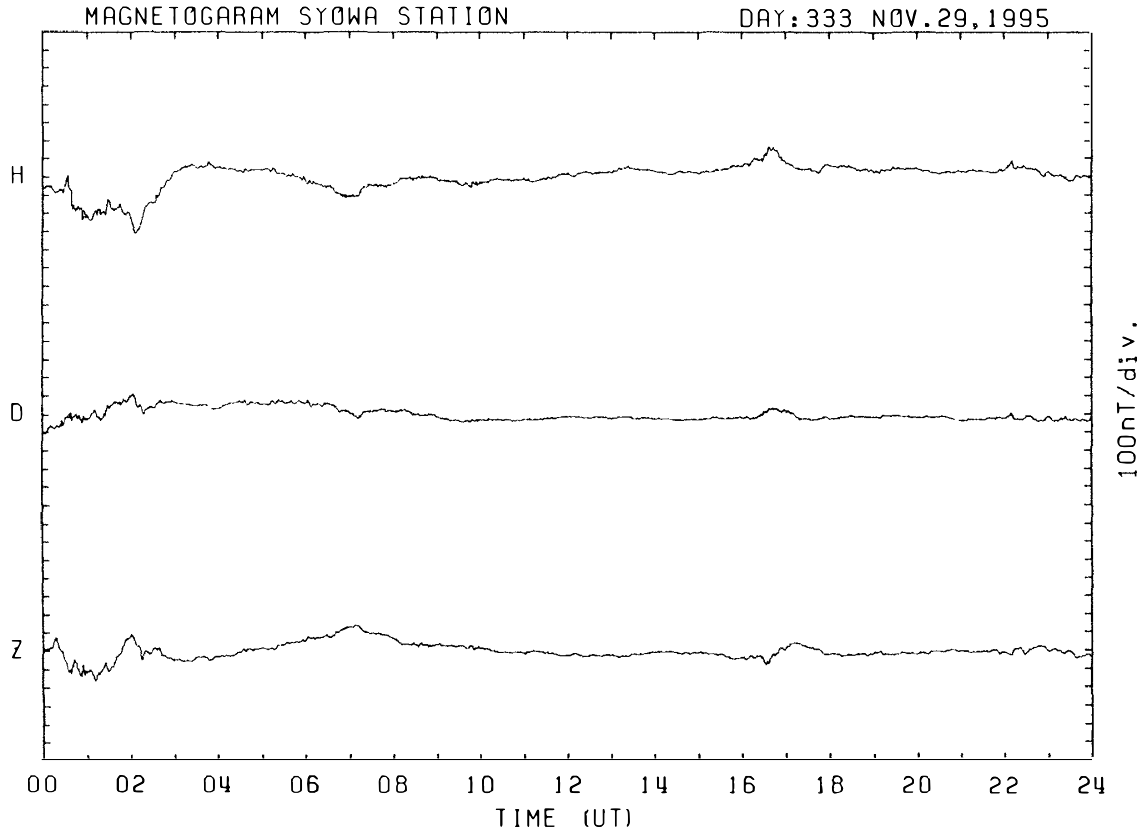
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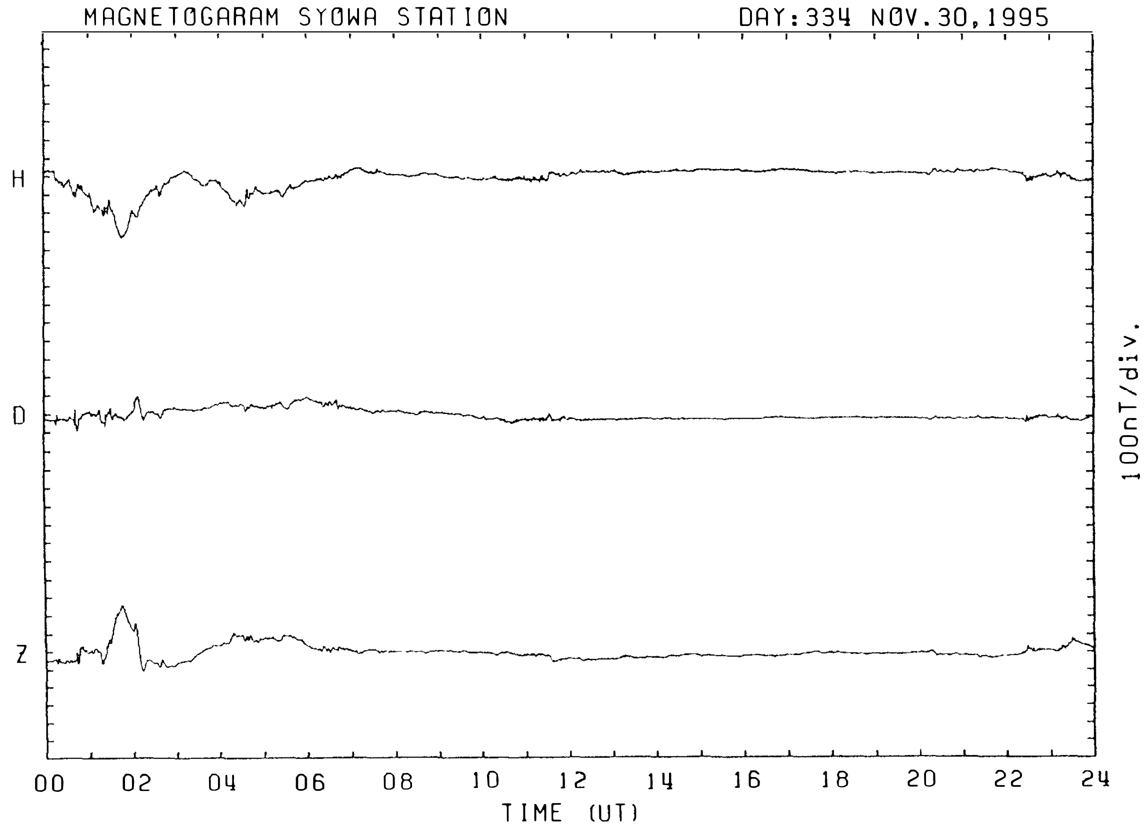
TIME (UT)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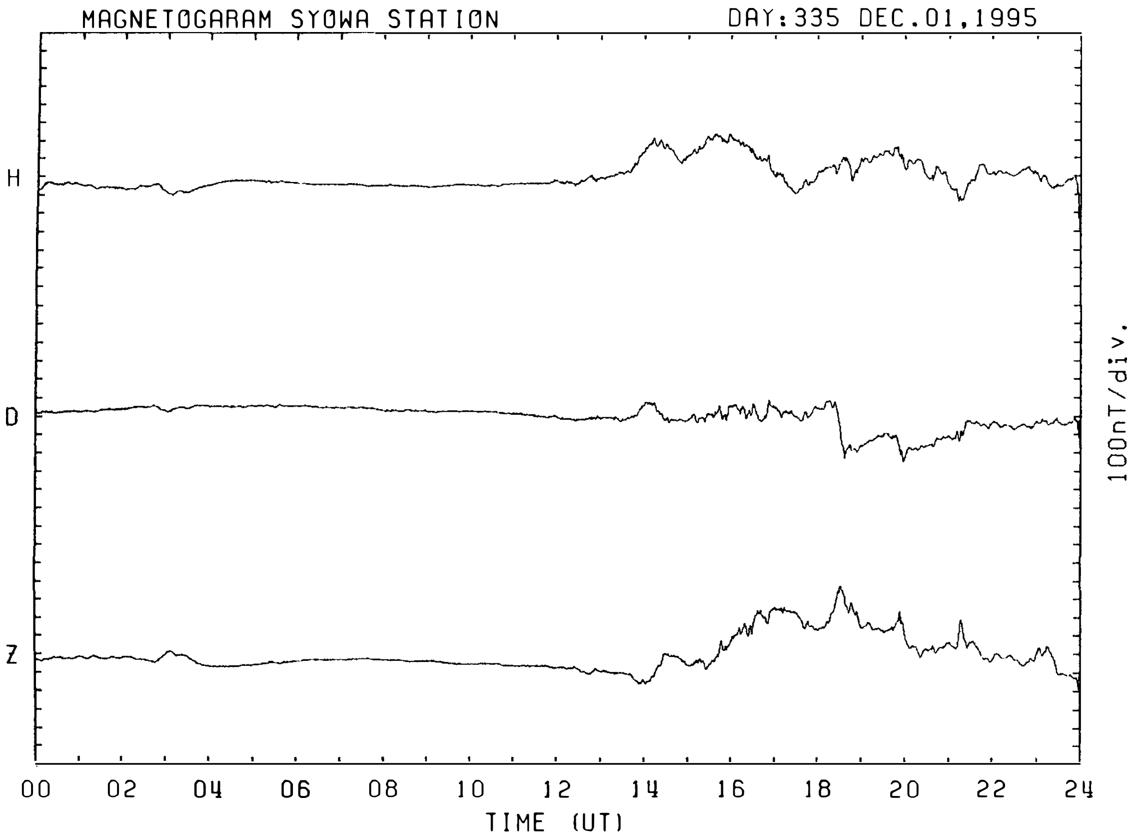
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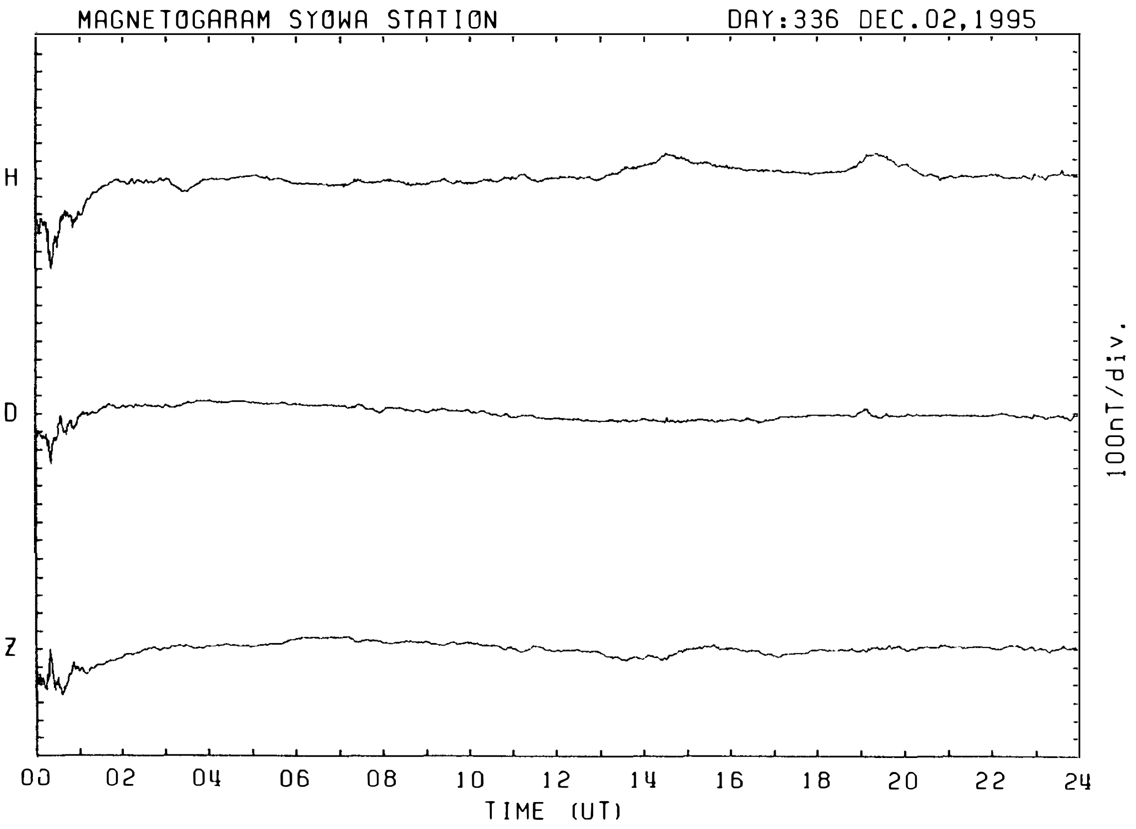
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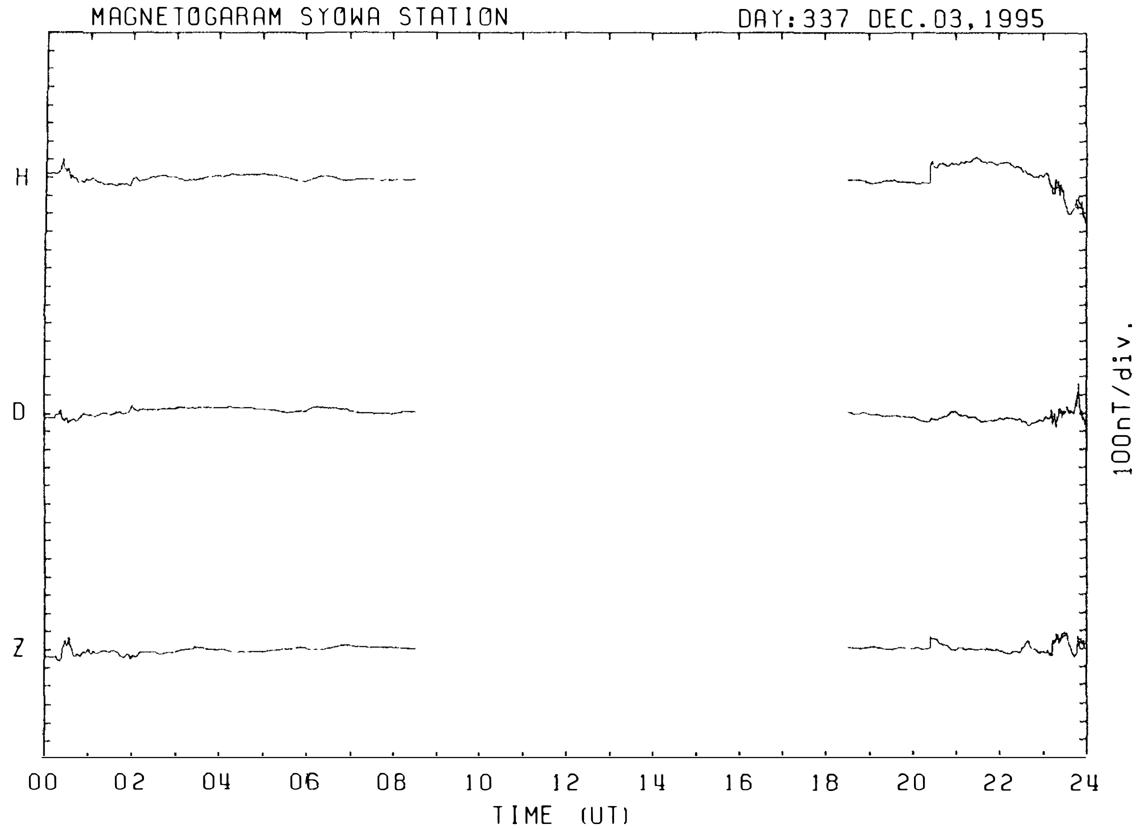

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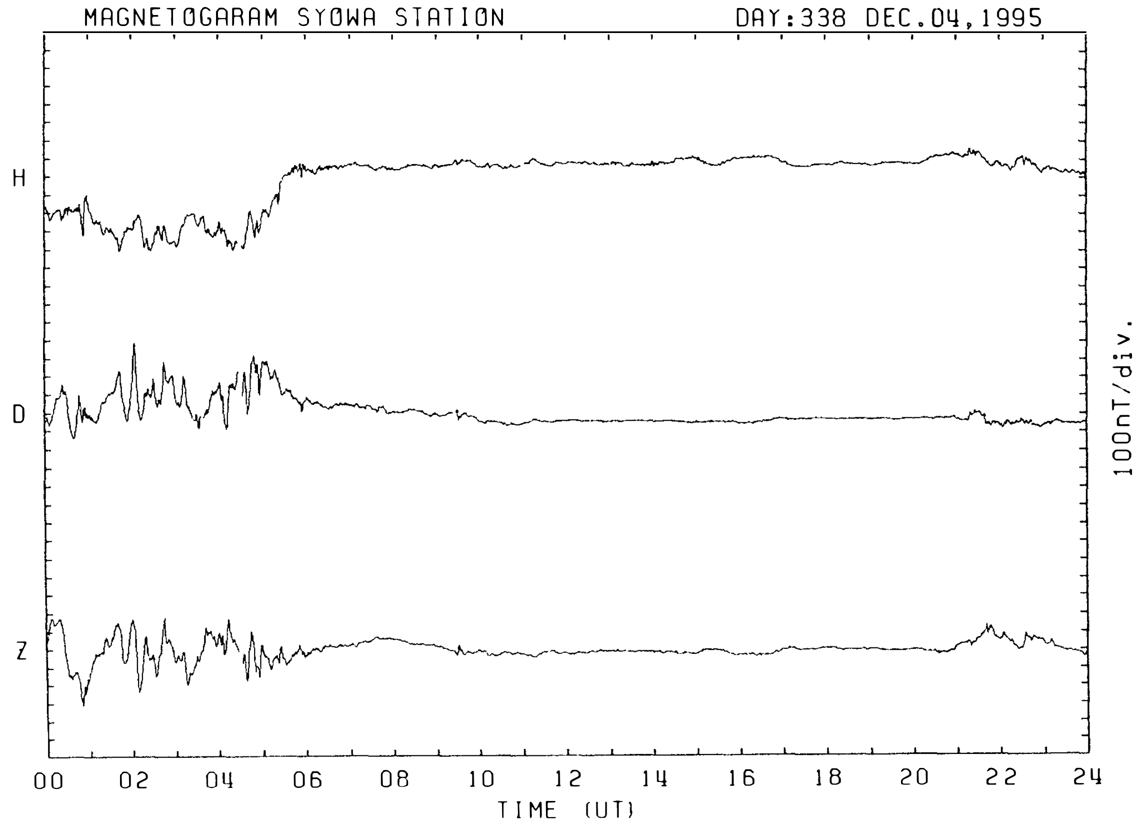

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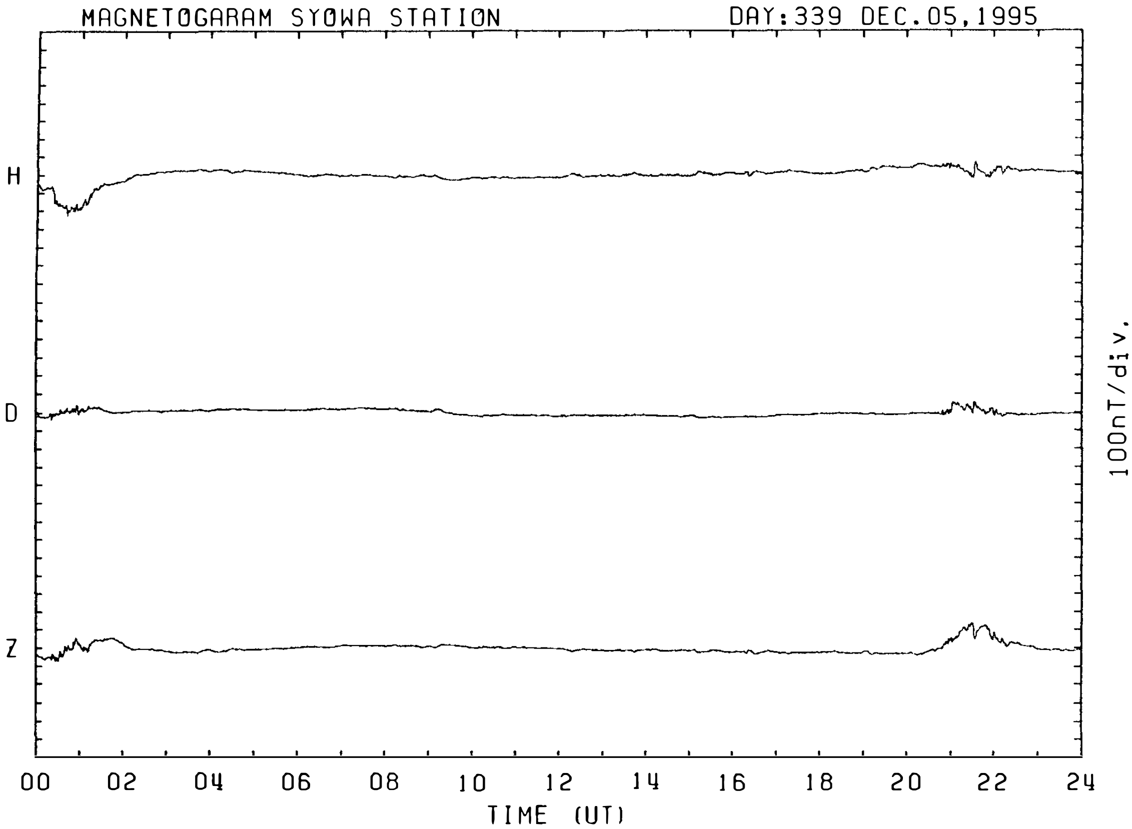
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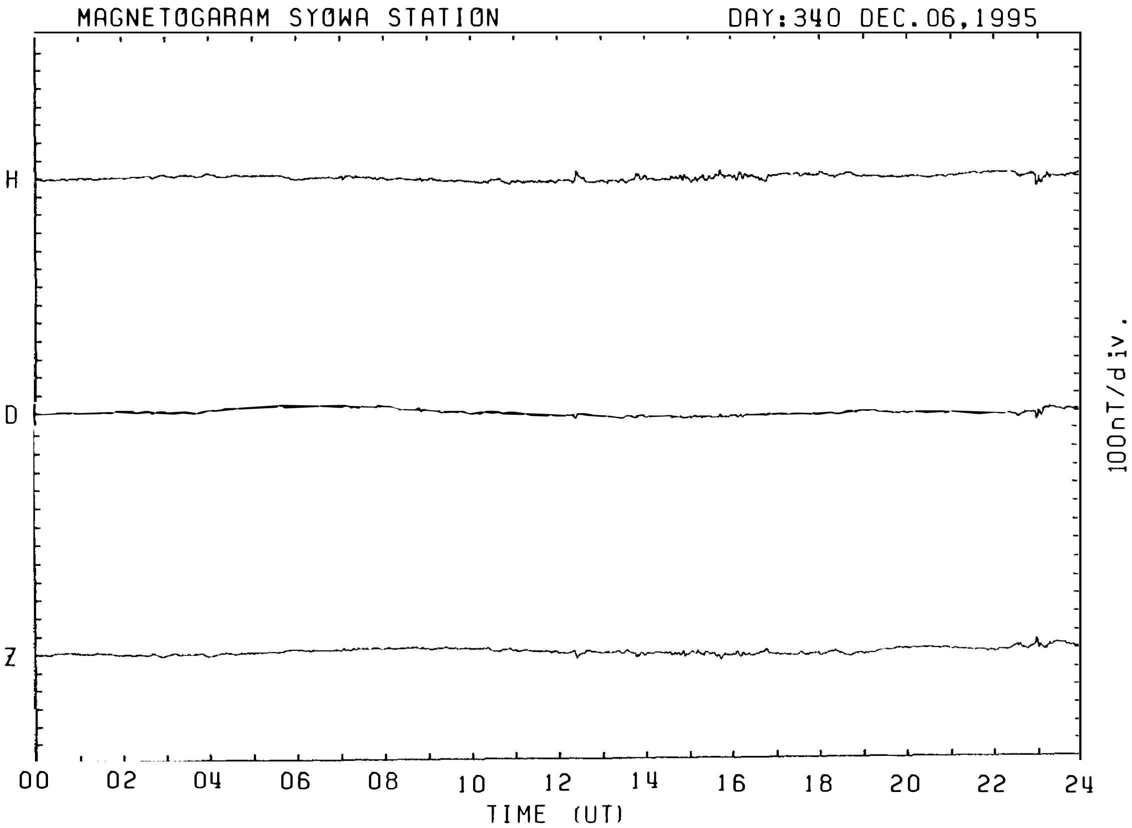
TIME (UT)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TIME (UT)

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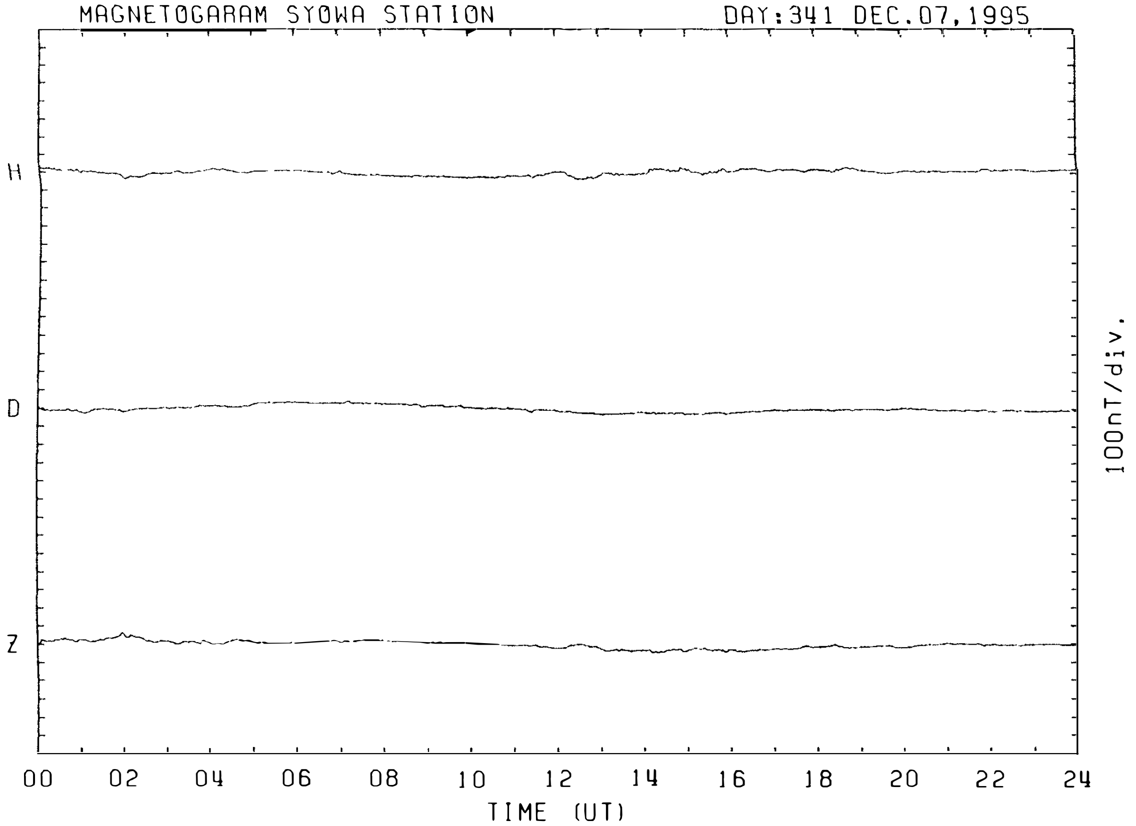

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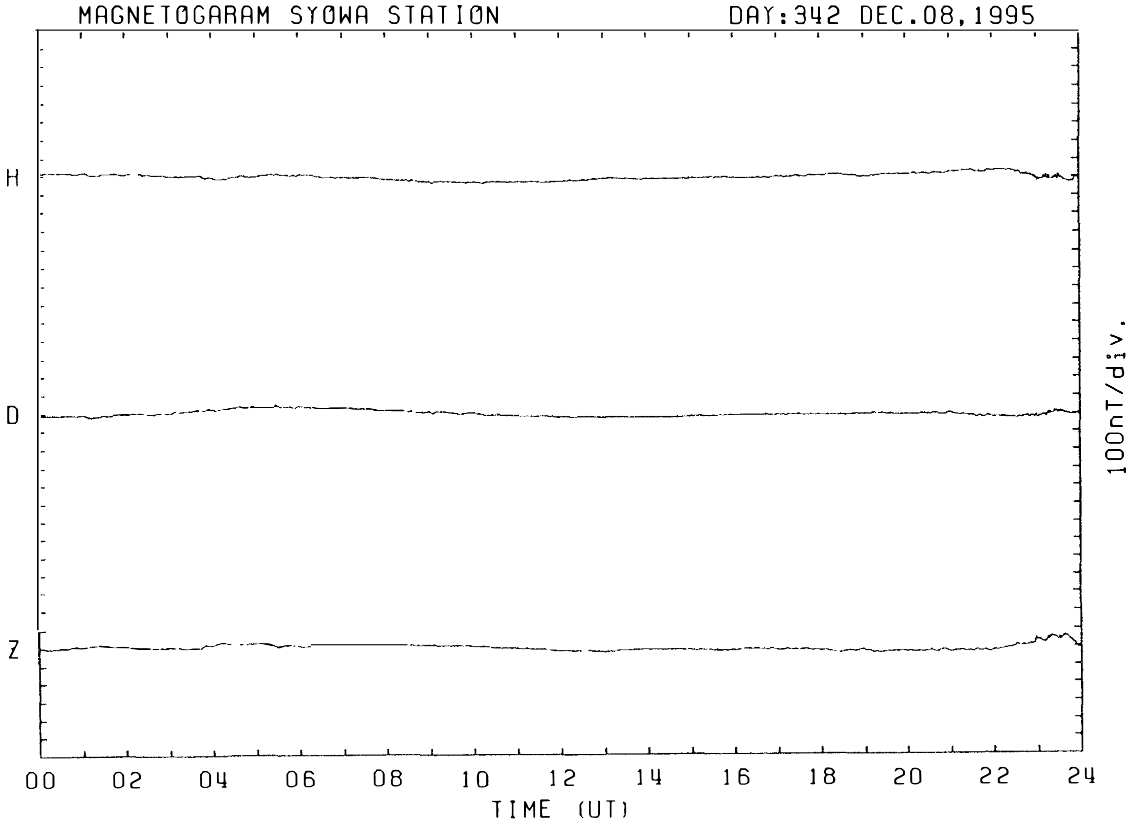

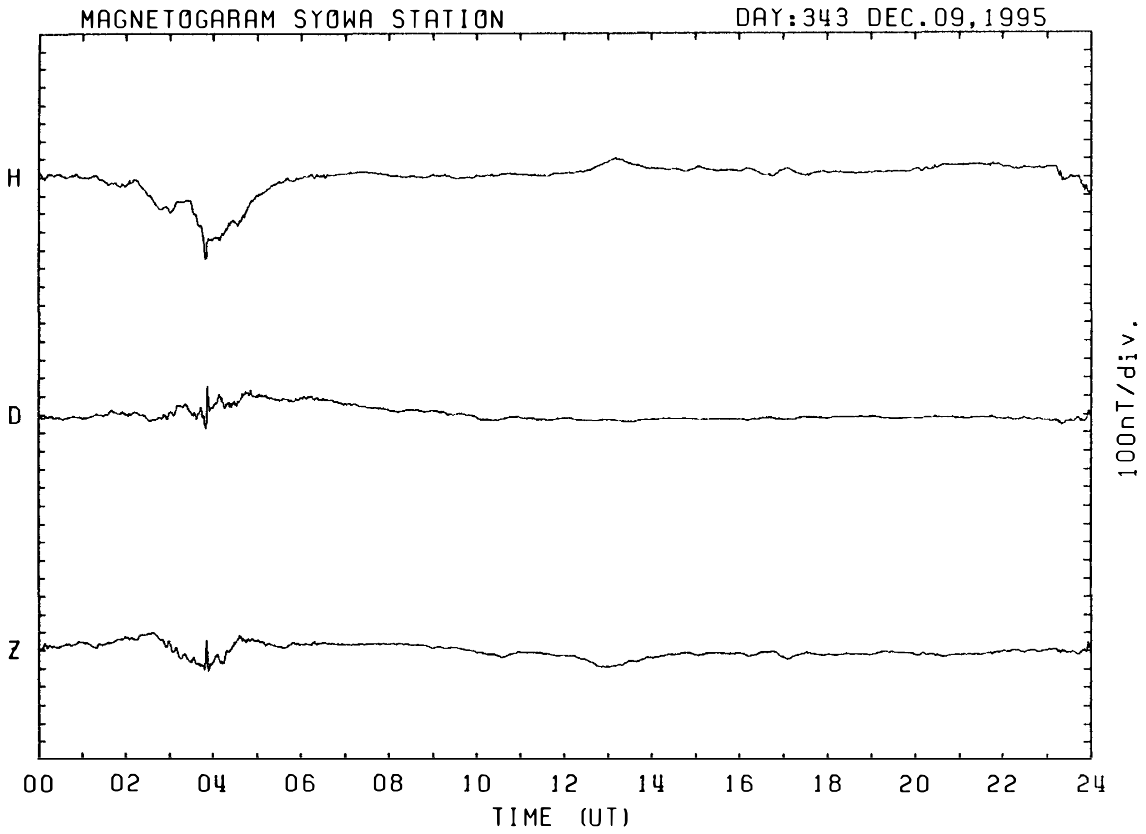
MAGNETOGARAM SYOWA STATION
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100nT/div.
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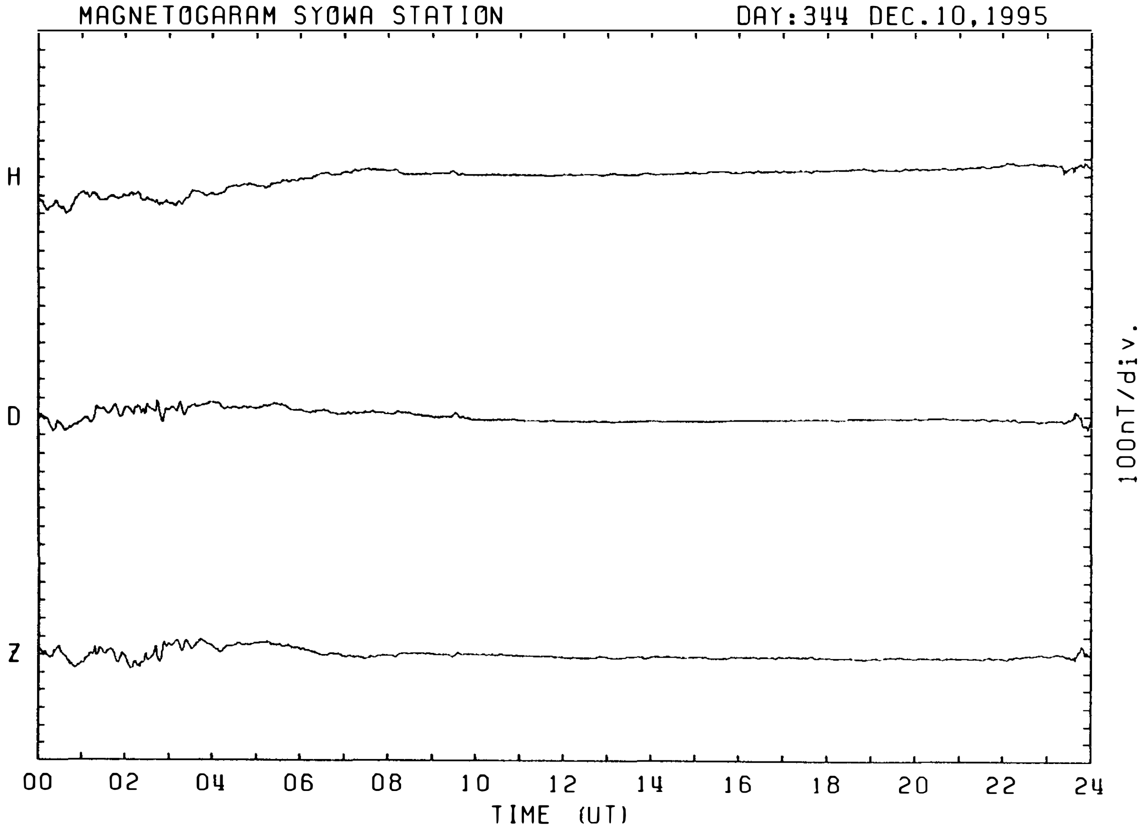
TIME (UT)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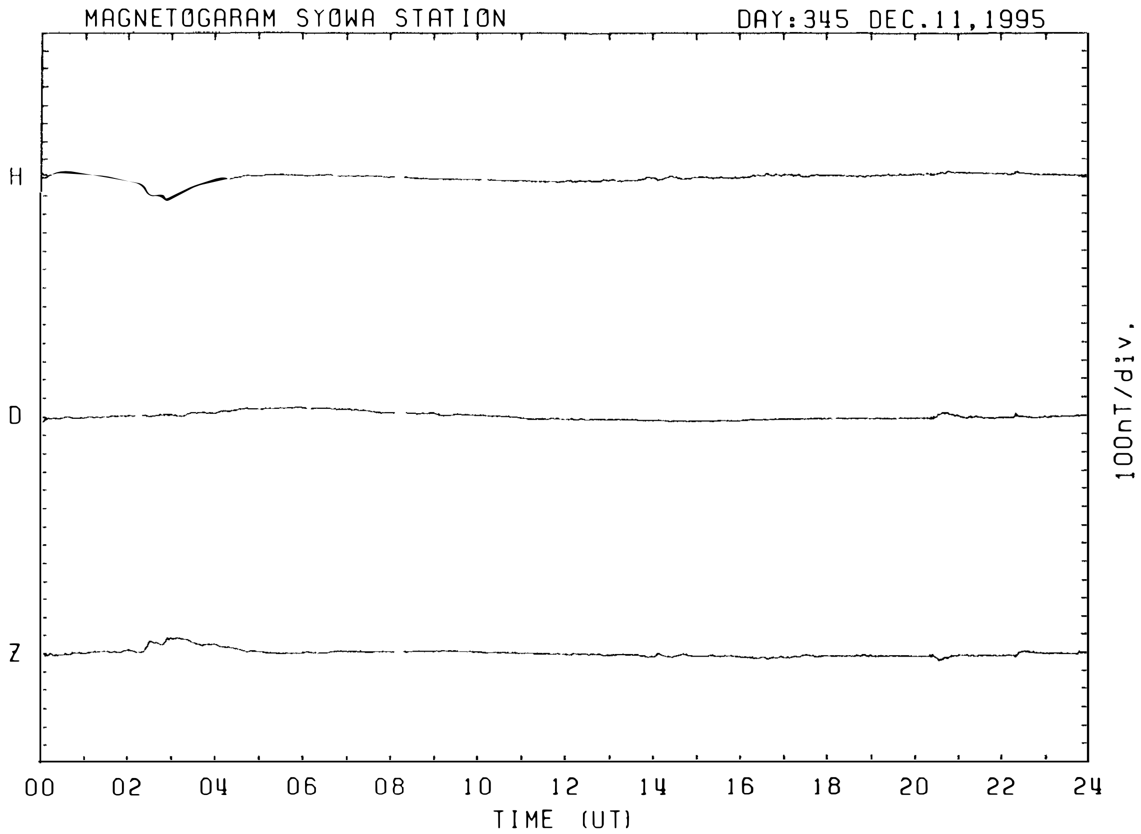
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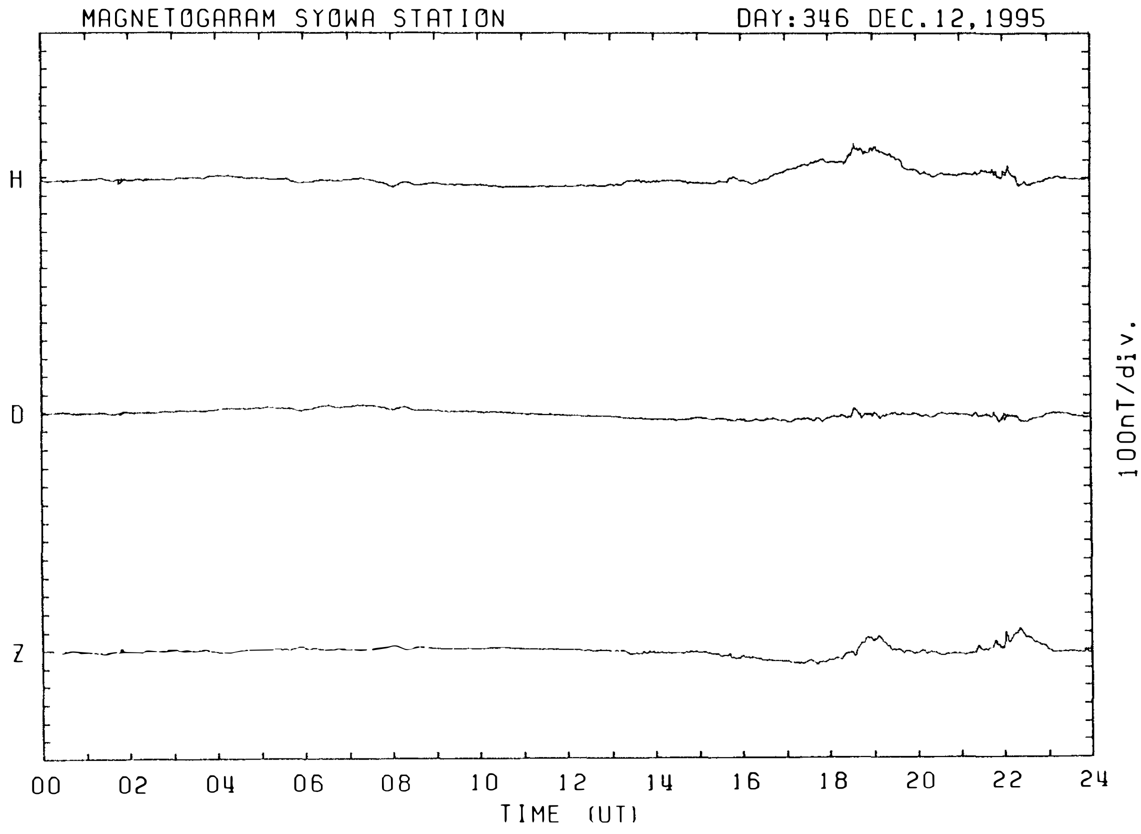
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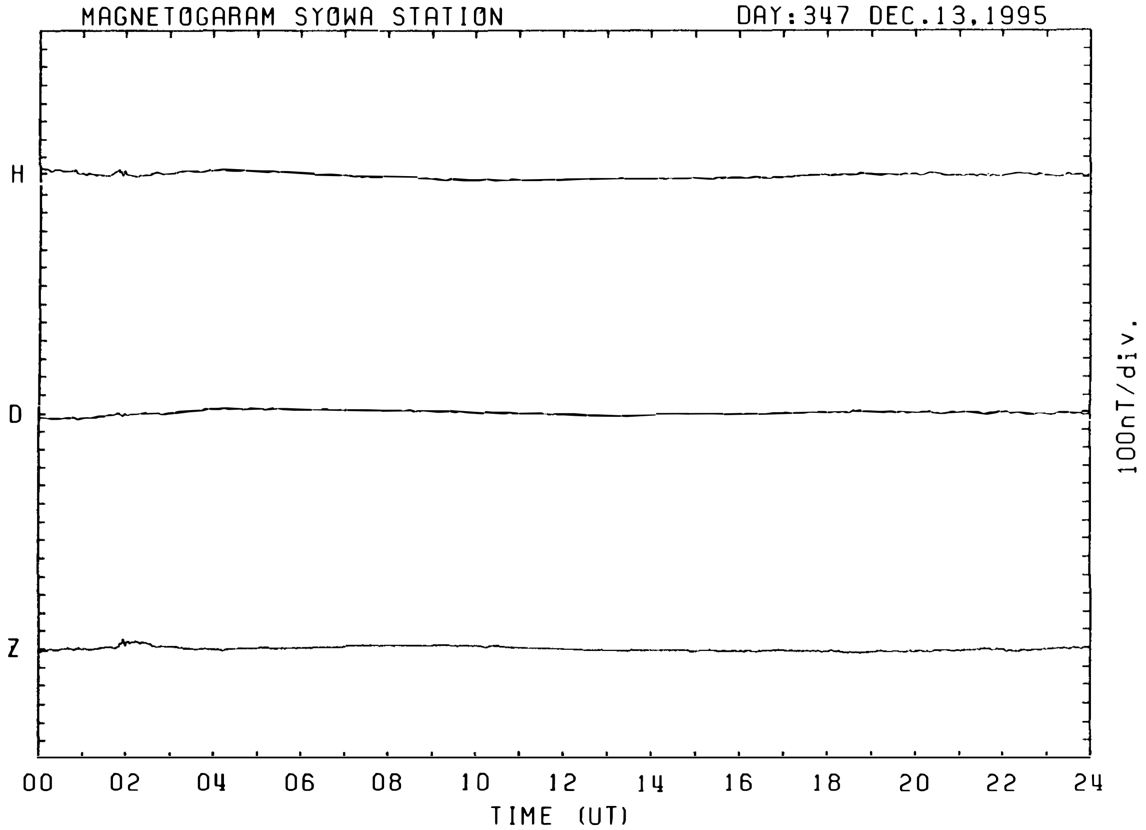
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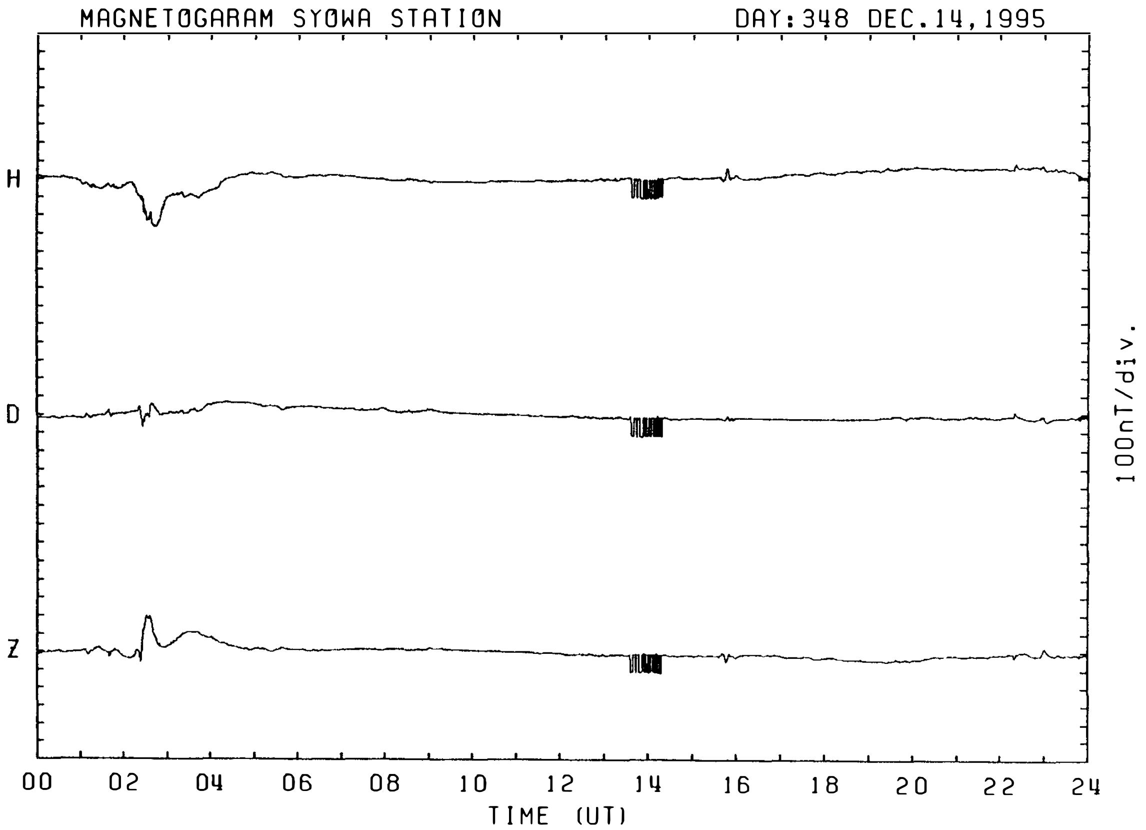
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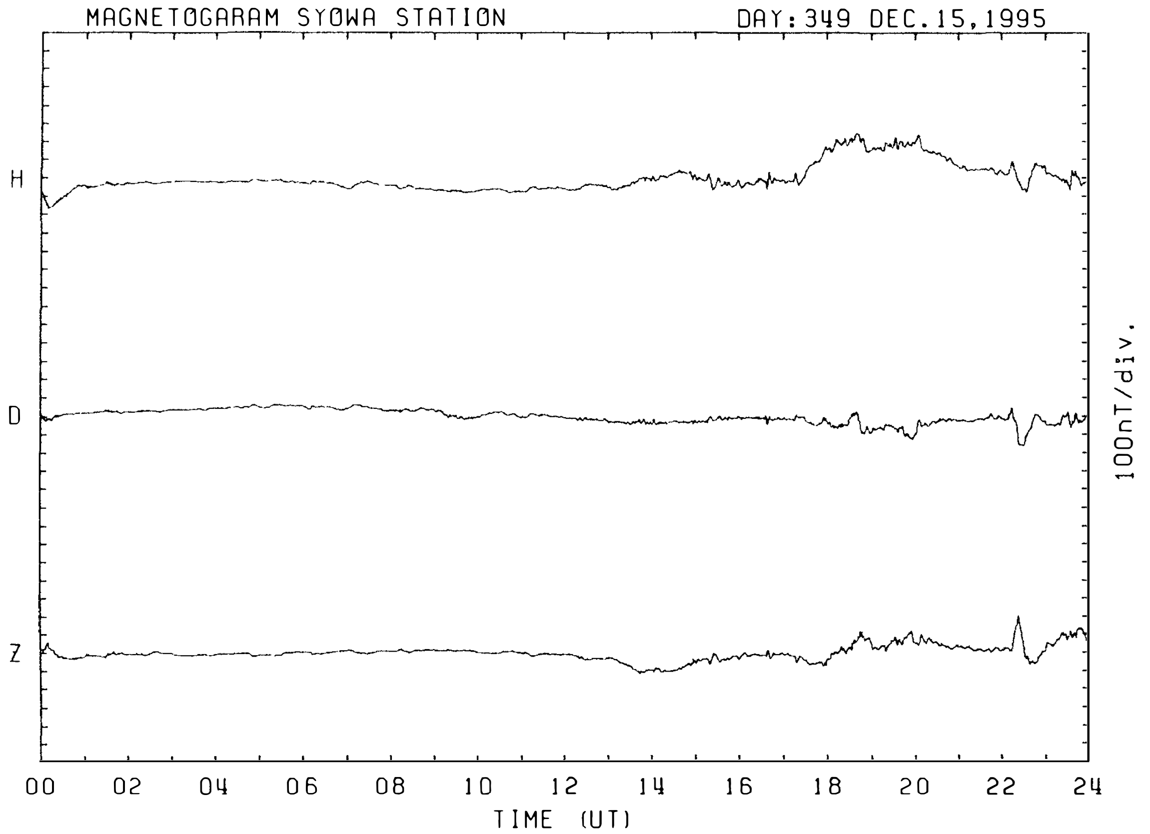
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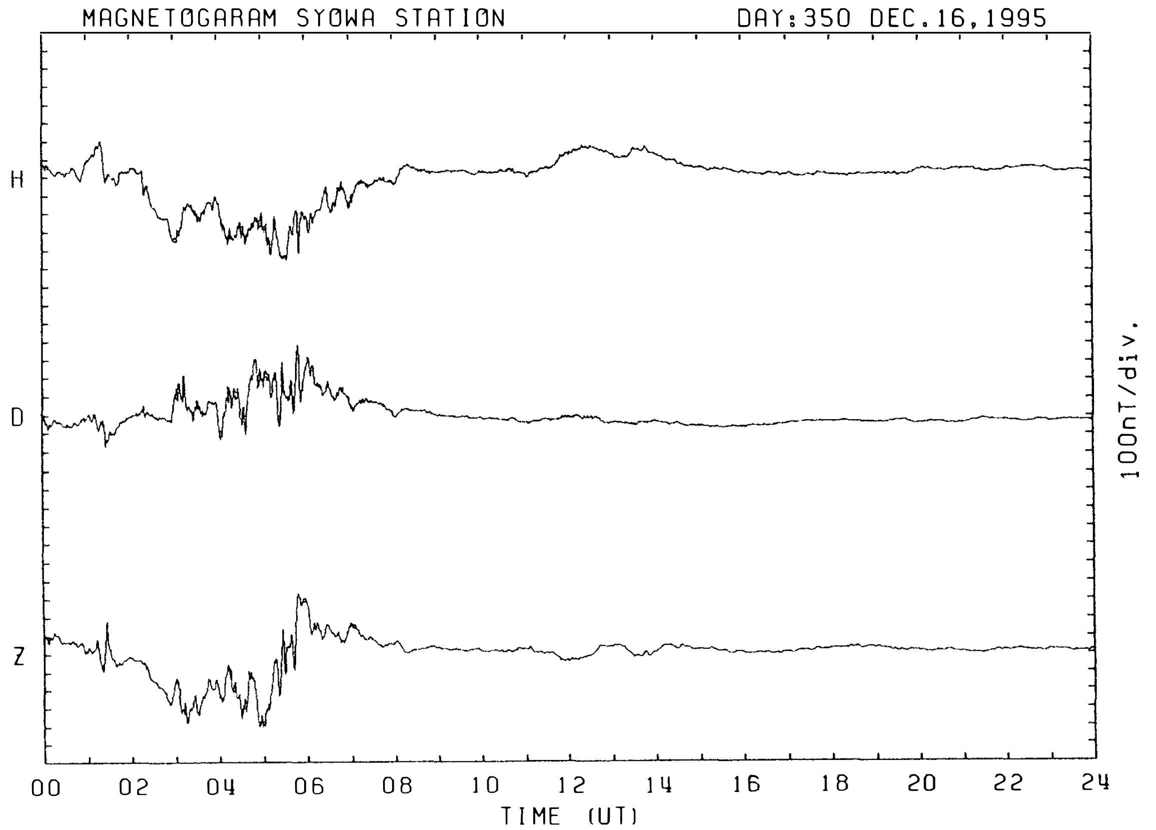
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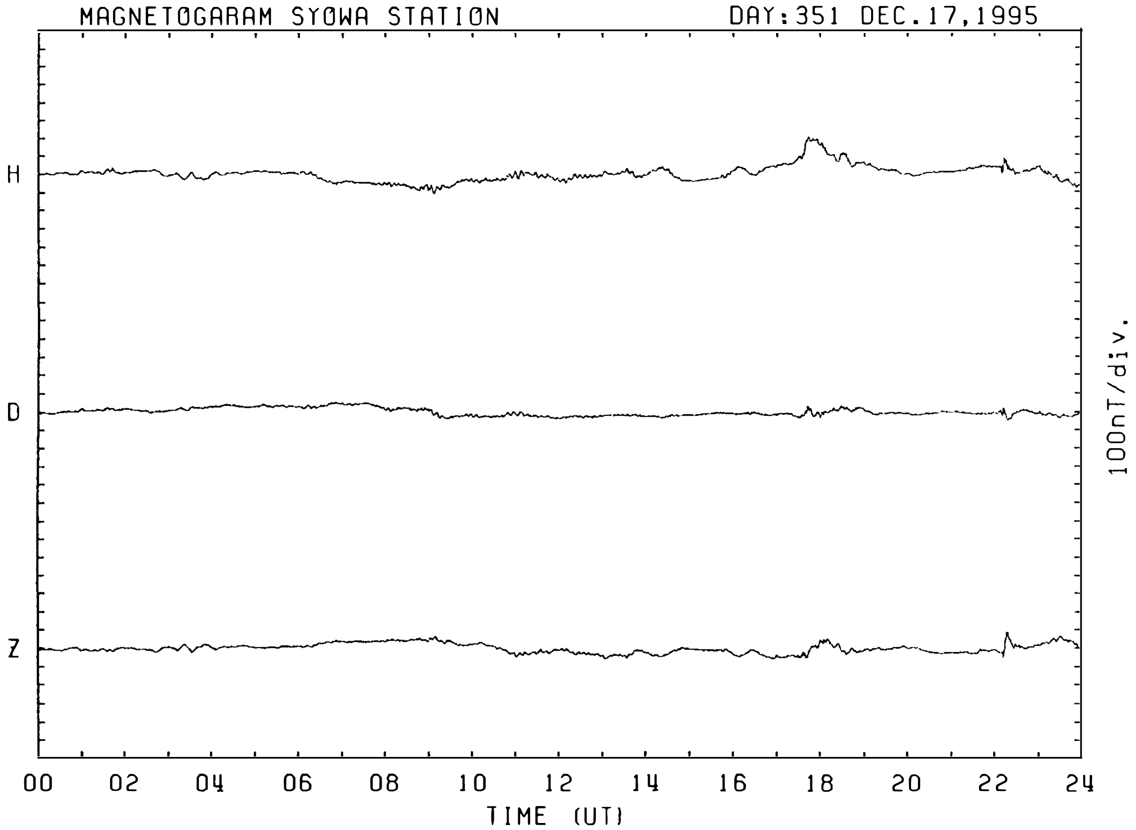
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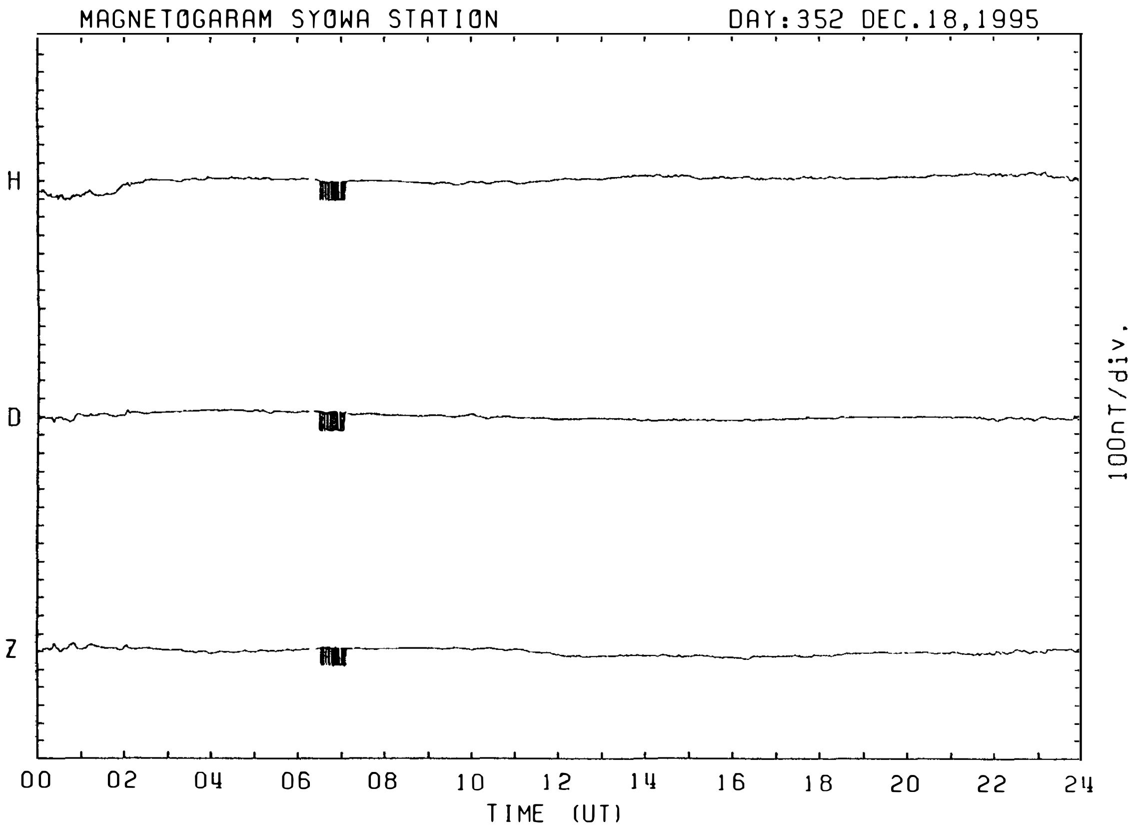
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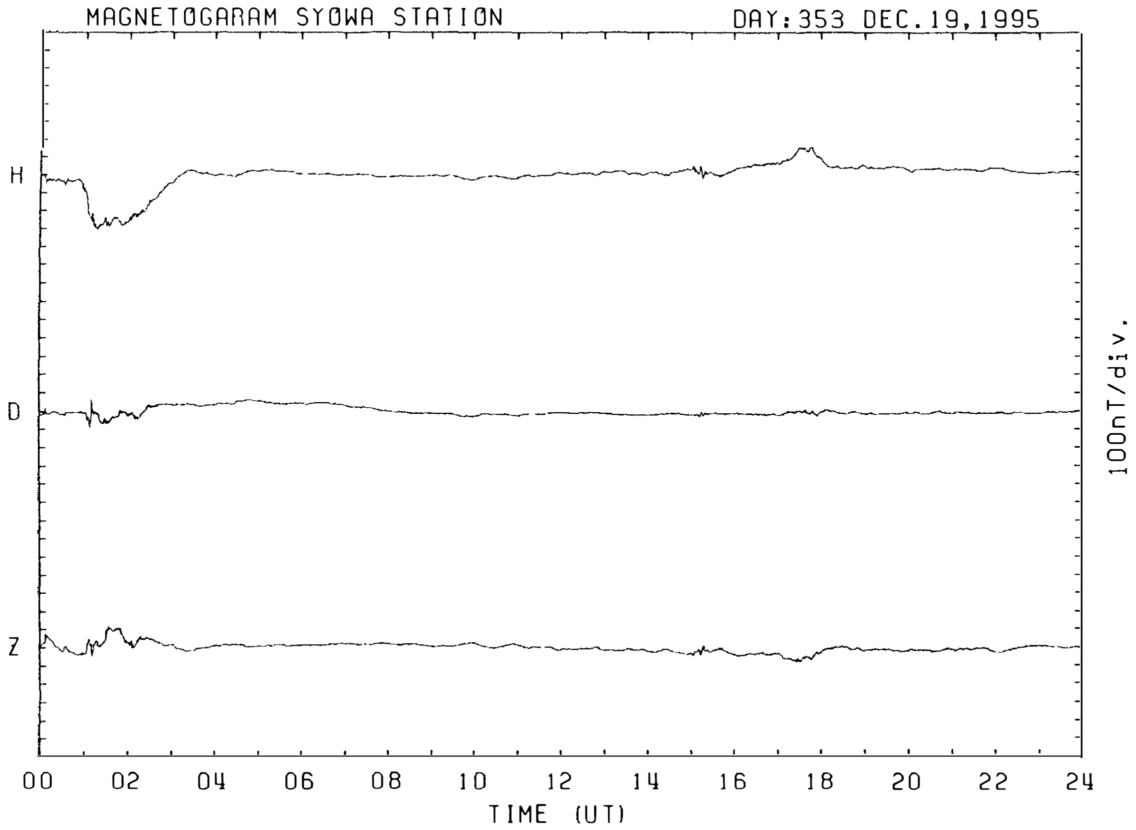
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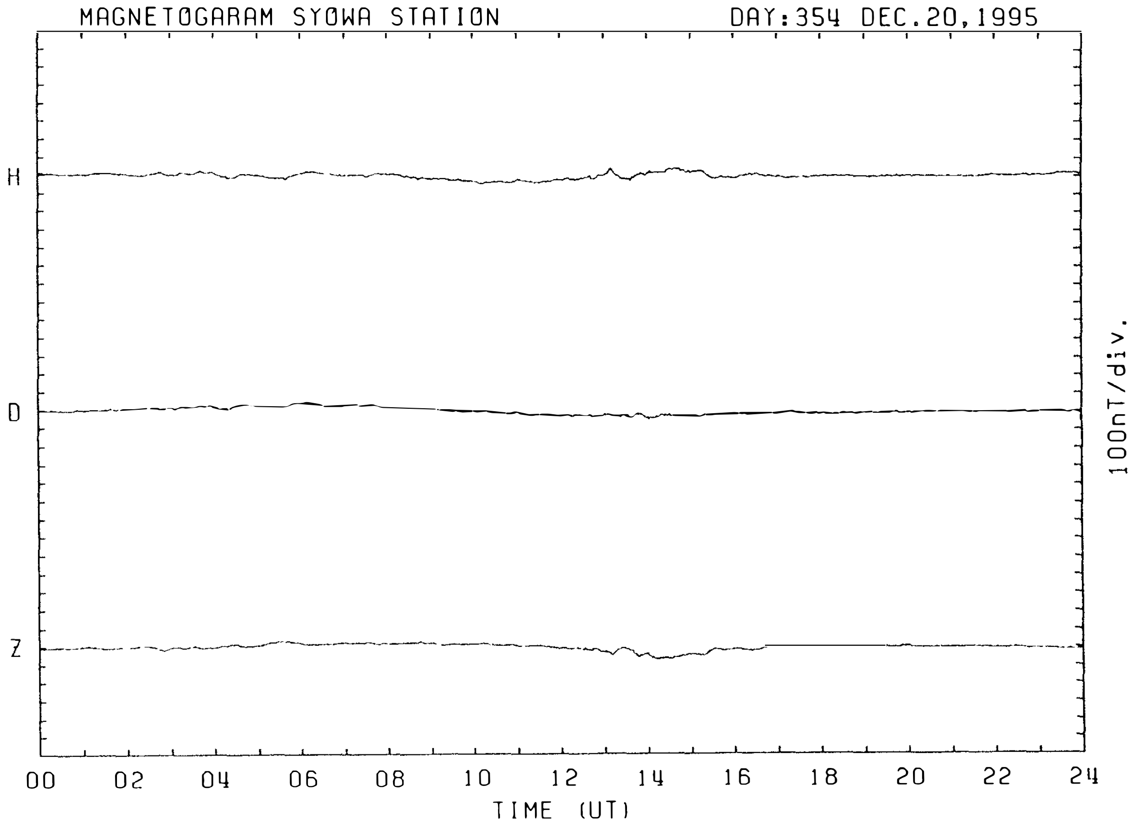
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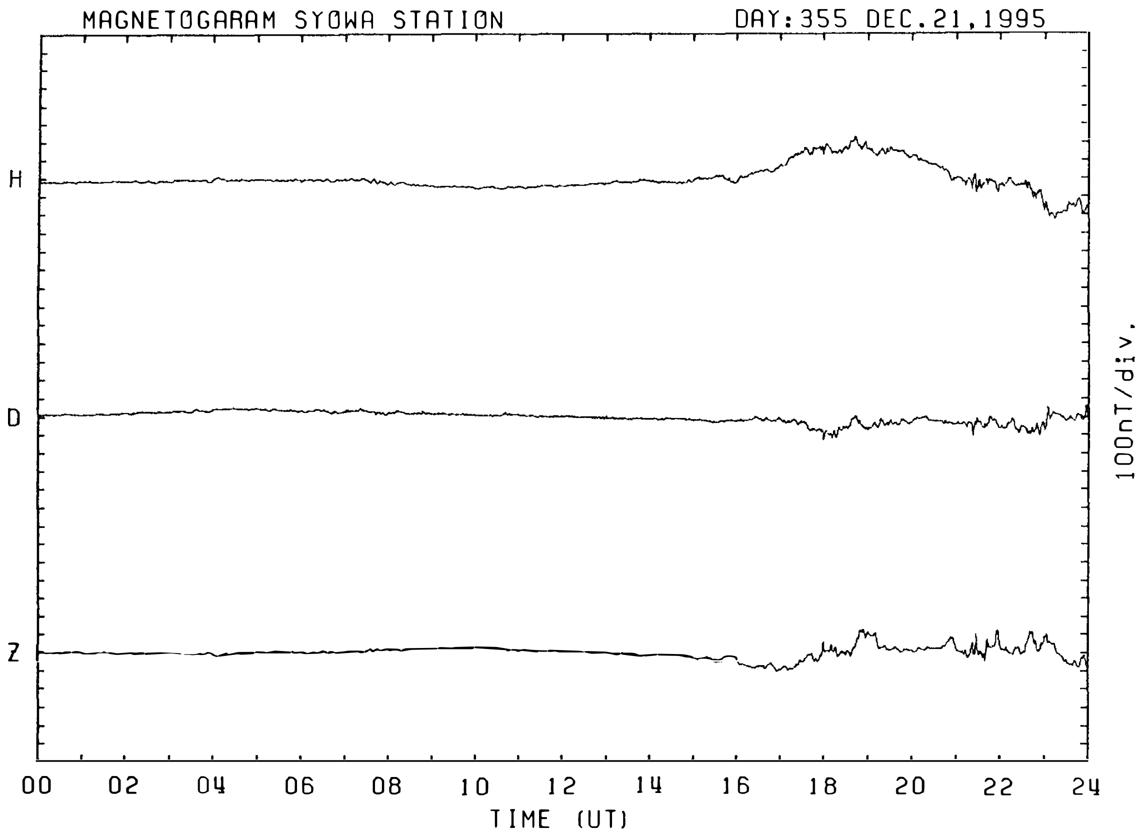
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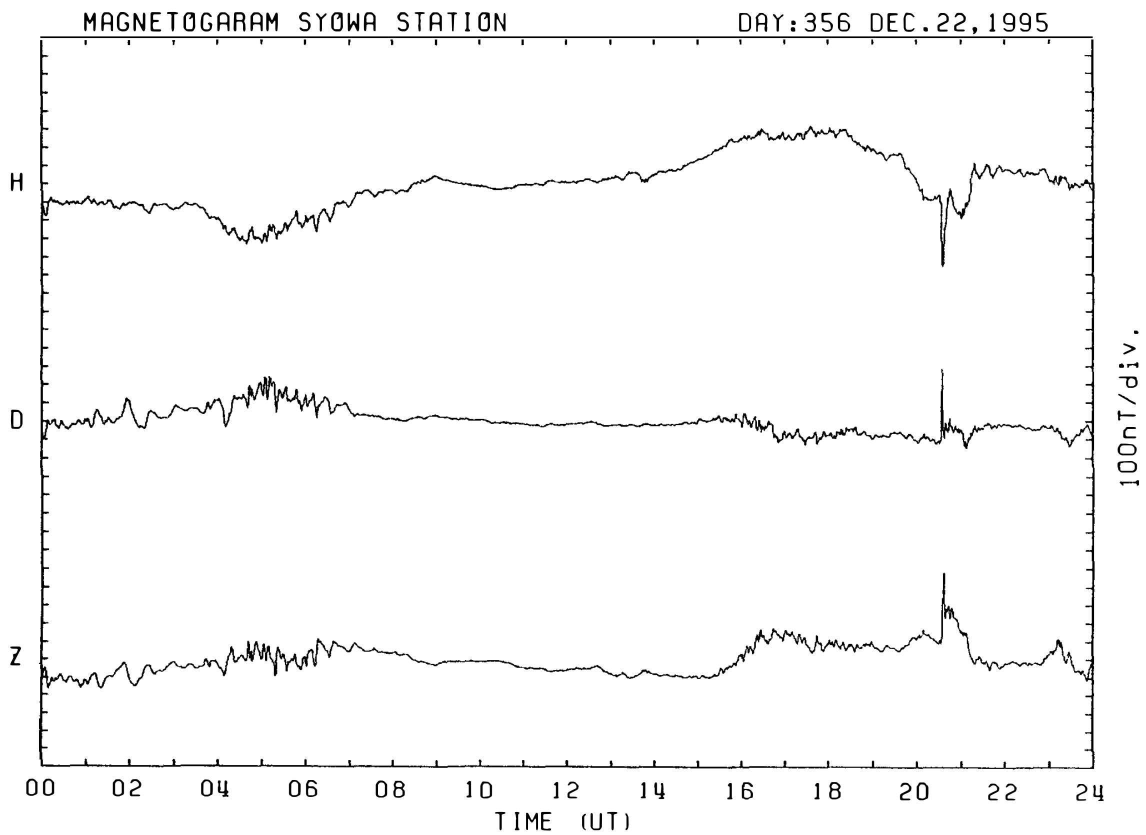
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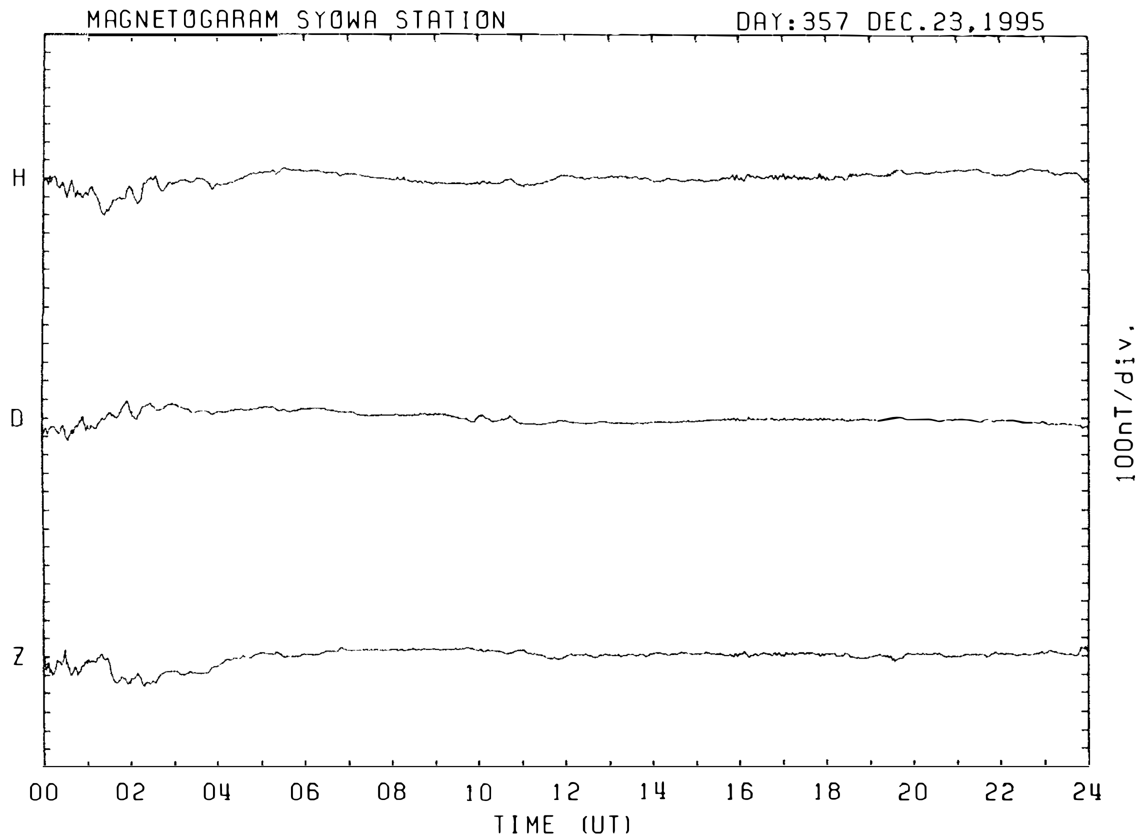
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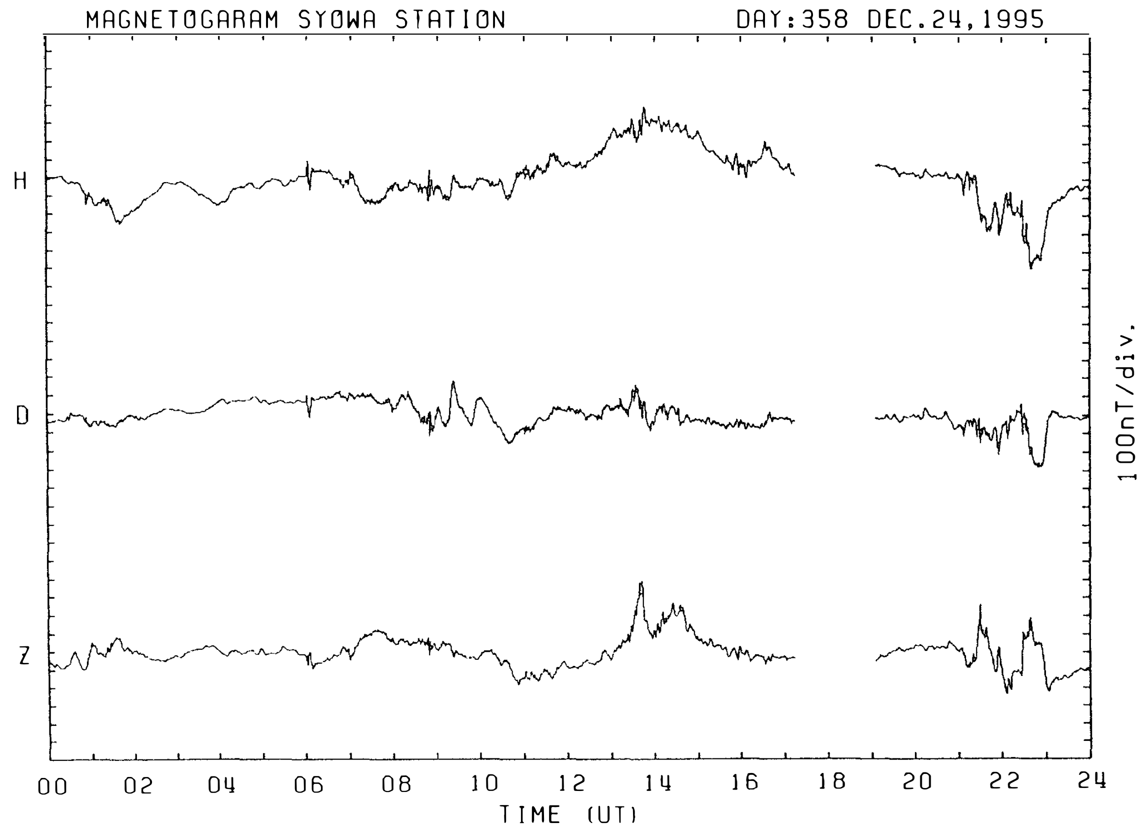
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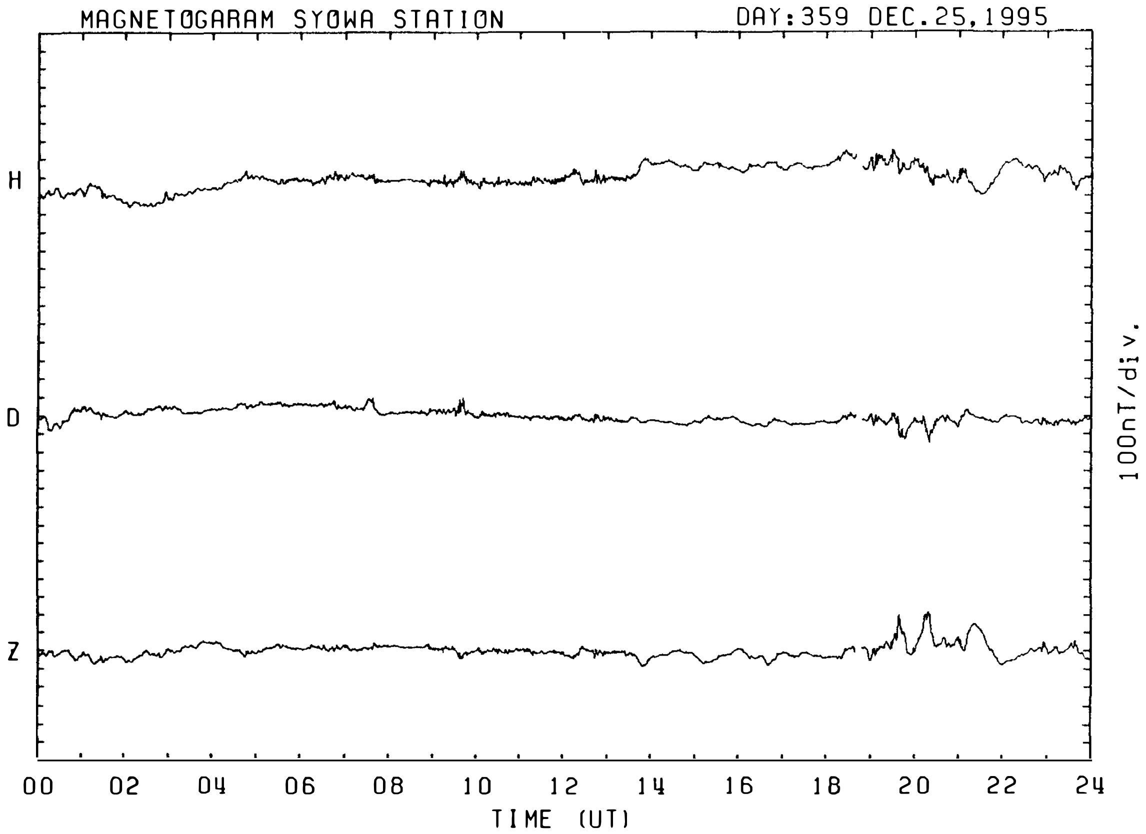
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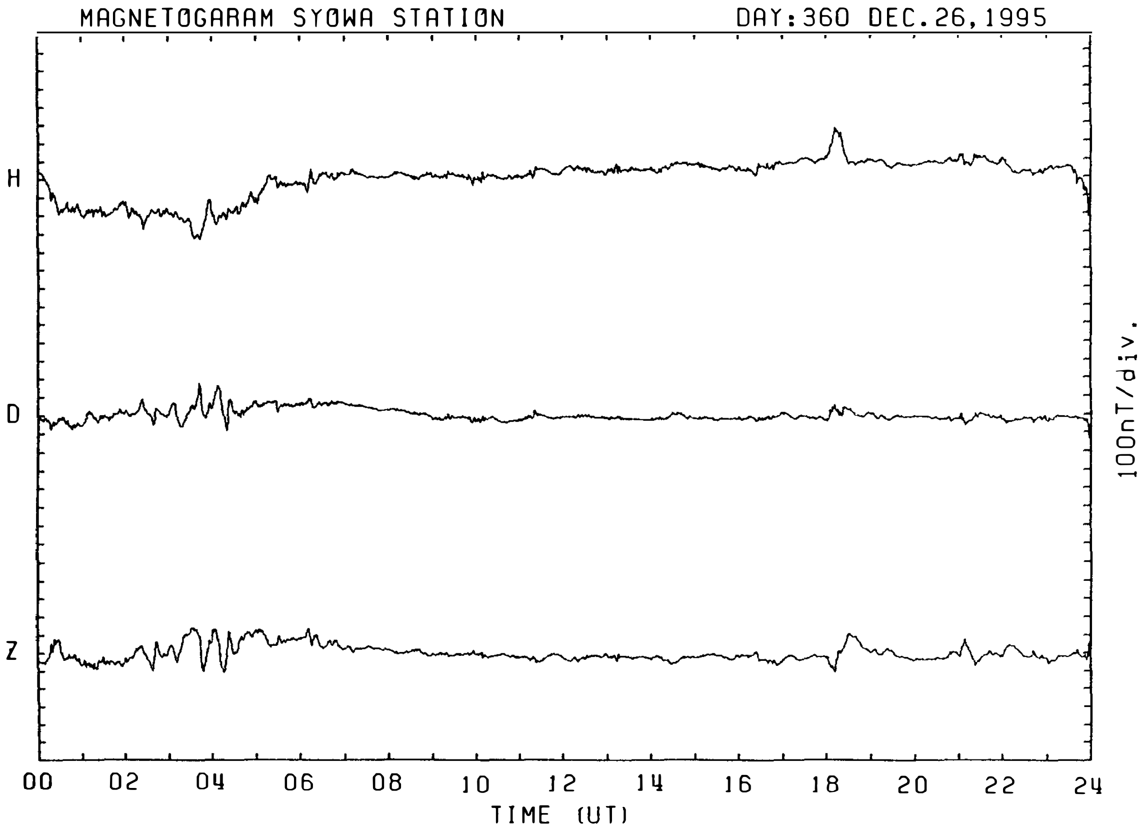
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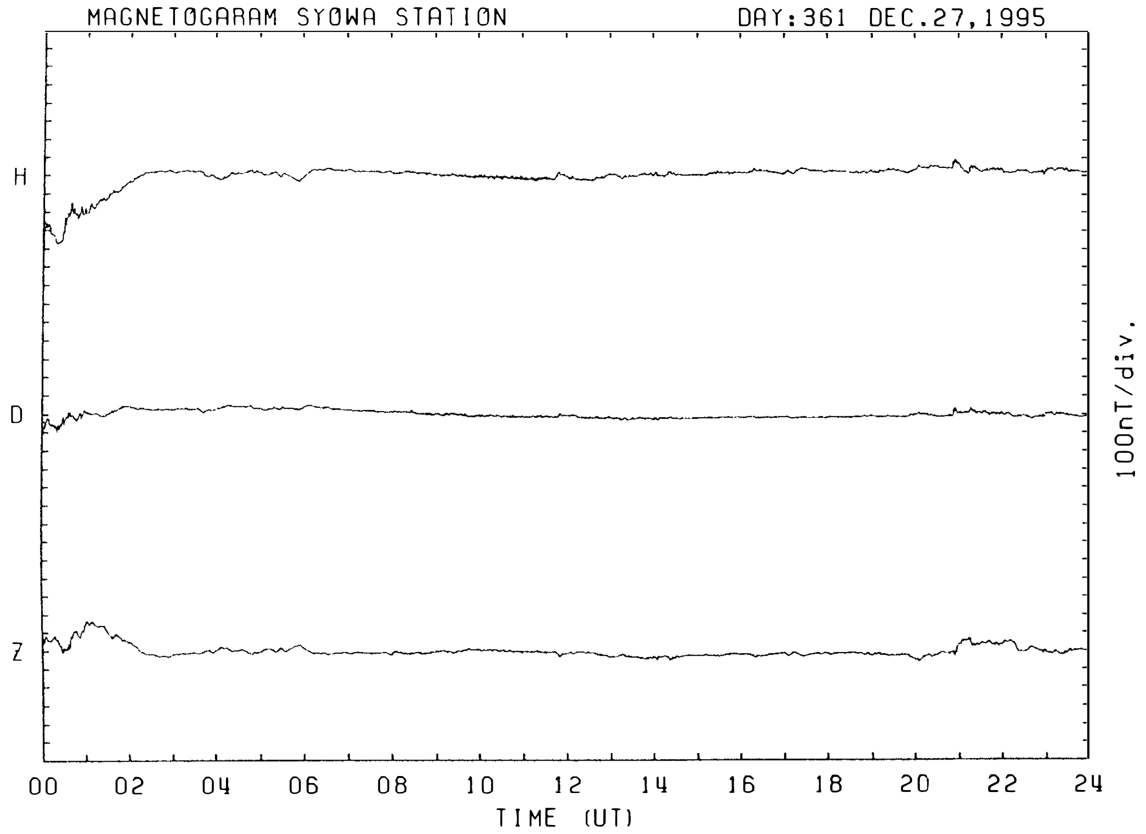
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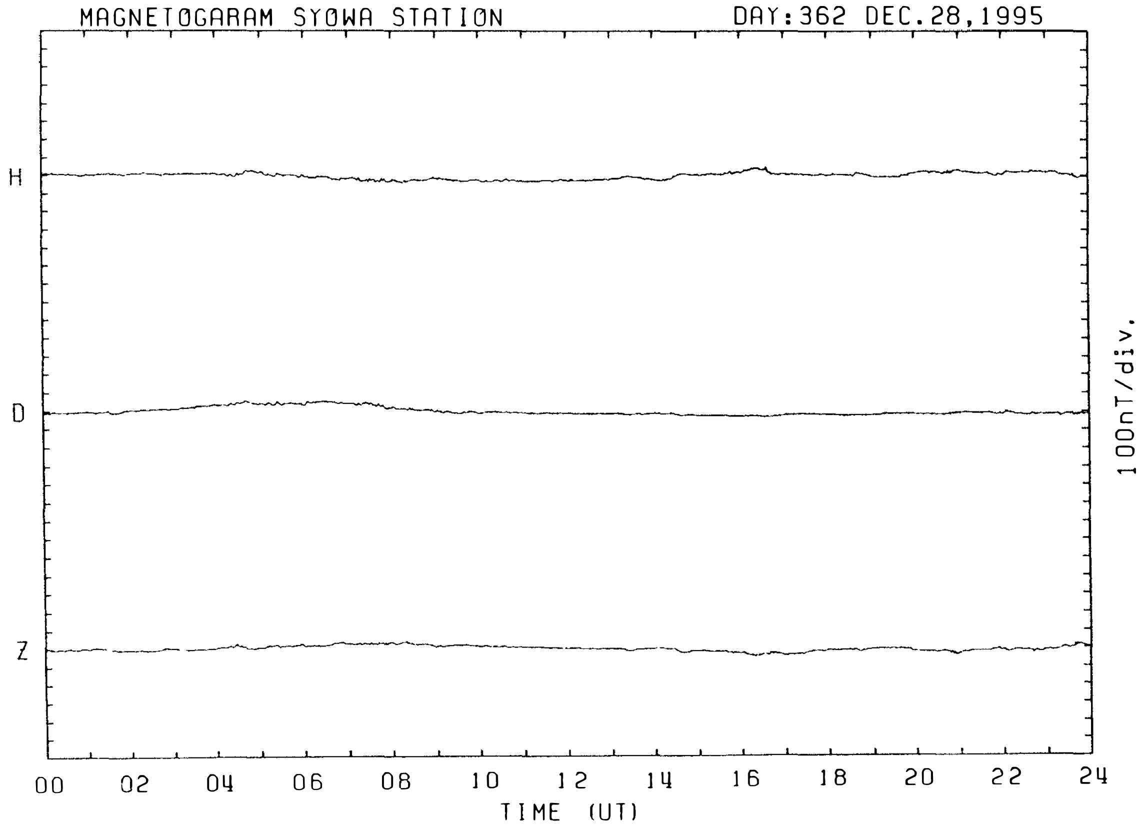
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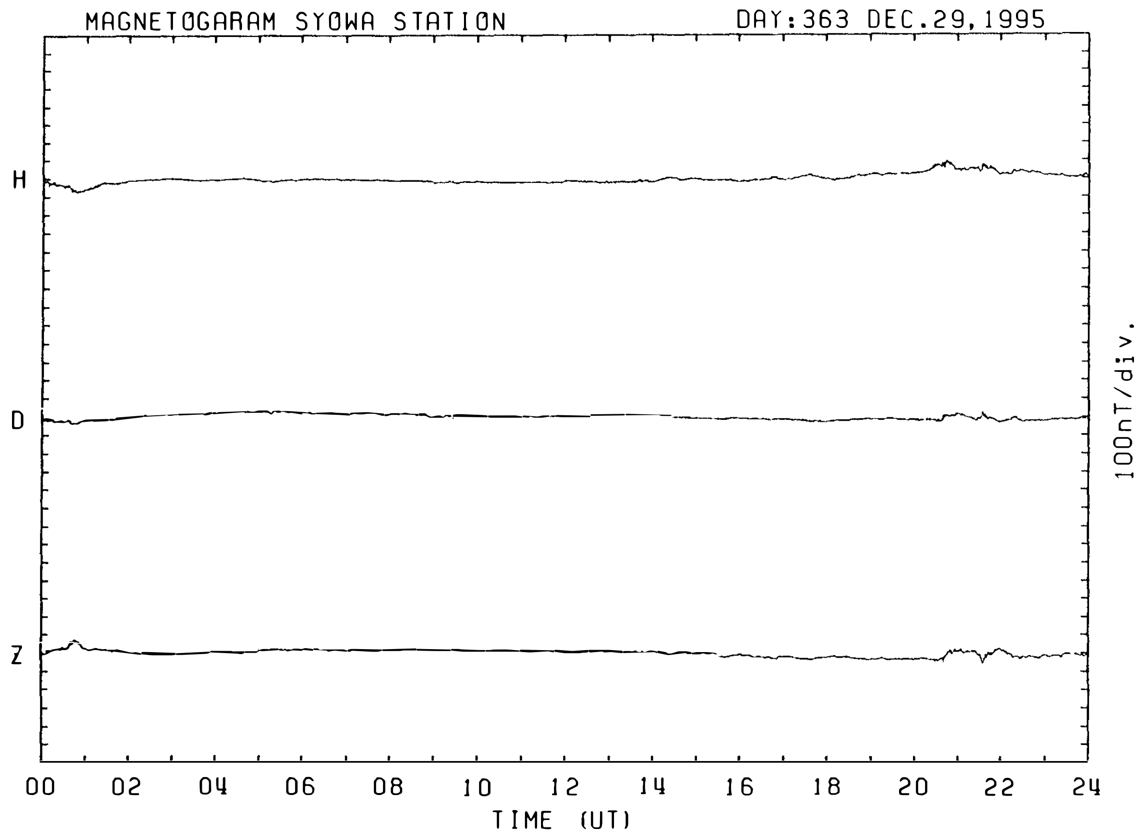
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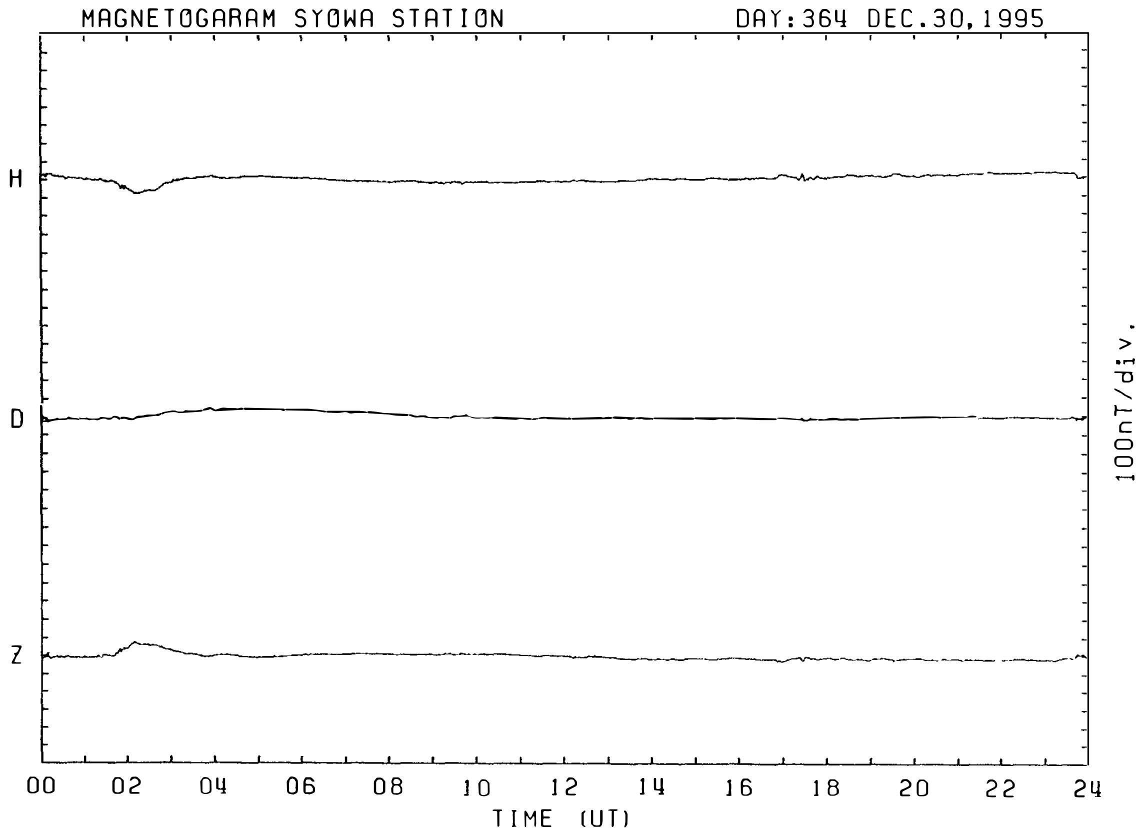
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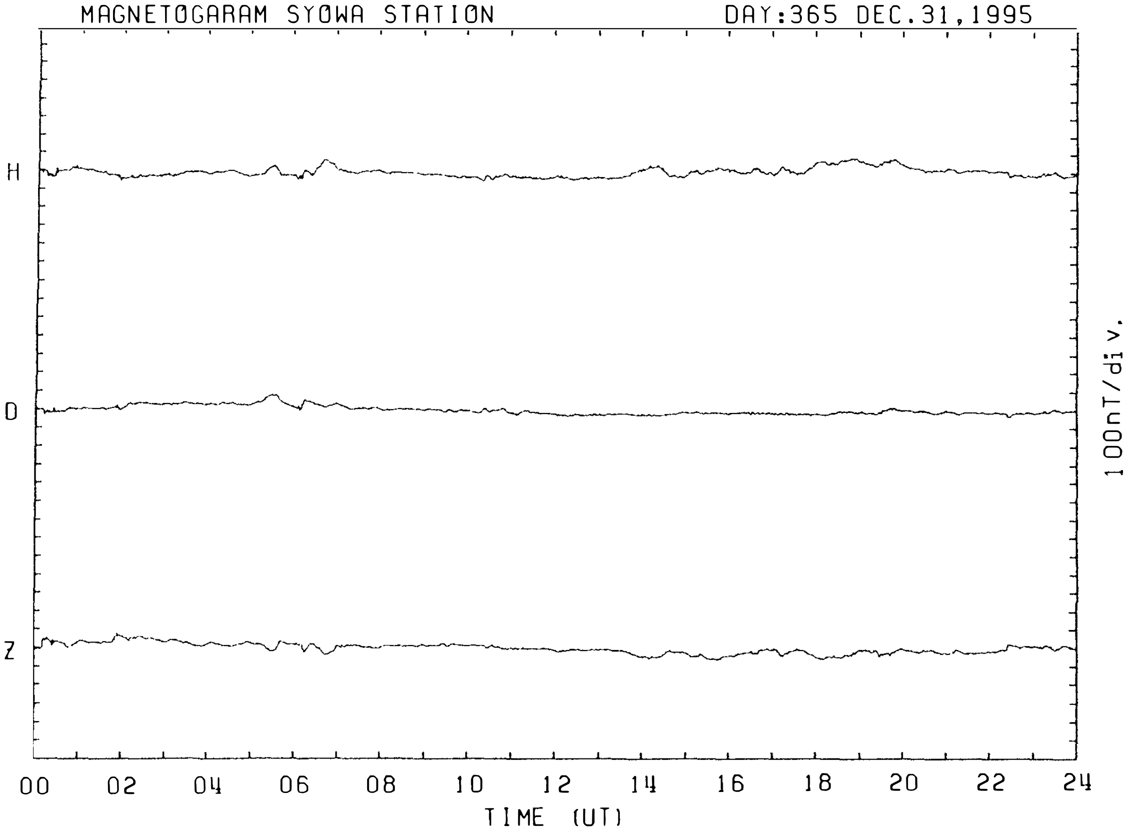
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TIME (UT)