

Hermanus Magnetic Observatory

A facility of the National Research Foundation

Magnetic Results 2008

Hermanus, Hartebeesthoek, Tsumeb and Keetmanshoop observatories

1. INTRODUCTION

The Hermanus Magnetic Observatory (HMO) operates four permanent geomagnetic observatories in Southern Africa, namely Hermanus and Hartebeesthoek in South Africa, and Tsumeb and Keetmanshoop in Namibia.

This yearbook presents the results of the magnetic measurements carried out at these observatories during 2008.

2. DESCRIPTION OF THE OBSERVATORIES

Observatory		raphic inates	Geoma Coord	Elevation	
	Latitude	Longitude	Latitude	Longitude	m
Hermanus	34° 25' 28" S	19° 13' 26" E	42° 25' S	83° 06' E	26
Hartebeesthoek	25° 52' 58" S	27° 42' 25" E	34° 27' S	96° 09' E	1555
Tsumeb	19° 12' 08" S	17° 35' 03" E	29° 43' S	87° 15' E	1273
Keetmanshoop	26° 32' 26" S	18° 06' 37" E	35° 41' S	85° 45' E	1065

Geomagnetic coordinates given are relative to a geomagnetic North Pole position of 84.2° N, 124.0° W, computed from the IGRF model (degree 13) at the epoch 2008.5.

3. ABSOLUTE MEASUREMENTS

At each observatory, except Keetmanshoop, absolute measurements are made in a single absolute hut. At Keetmanshoop there is a pillar with weather proof material built around it to protect against wind, sun and rain. Since 1st January 2000, absolute values of all geomagnetic elements are referred to a single standard pillar at each of the observatories. For continuity with previous data the differences between the new and old standards are quoted in the tables of annual mean values in the sense (old standard – new standard) for all elements of the geomagnetic field. Thus, annual mean values prior to 2000.5 can be referred to the new standard by adding the site difference to the old standard values.

3.1 DI-Flux

Absolute observations were carried out on a regular basis at each observatory by means of a DI-flux magnetometer for measuring the angles D and I. The total magnetic field intensity, F, was measured by means of either an Overhauser Magnetometer or Proton Precession Magnetometer or a dldD. The absolute values H and Z were then derived from

$$H = F \cos I$$

 $Z = F \sin I$

Where H, Z and F are field values at the time of the I measurement. Baseline values H_o , D_o and Z_o were then calculated for the vector magnetometer systems described in section 4 below.

The DI-flux consists of a ZEISS non-magnetic theodolite type THEO 010B (at Hermanus), a THEO 015B (at Hartebeesthoek and Tsumeb) and a single-axis fluxgate sensor mounted on top of the telescope and electronics from Bartington. At

Keetmanshoop, the DI-flux consists of a non-magnetic theodolite type 3T2KP-NM and a single-axis fluxgate sensor mounted on top of the telescope and electronics type LEMI 204. The DI-flux is considered to be an absolute instrument, which means that the angles measured by the instrument do not deviate from the true values D and I. This is achieved by using an observation procedure which eliminates the unknown parameters such as sensor offset, collimation angles and theodolite errors.

The following azimuth values were used at each observatory:

Observatory	Mark	Azimuth value
Hermanus	HMO Beacon	342° 20' 26"
Hartebeesthoek	Red-white pole	357° 45' 09"
Tsumeb	Max Planck	015° 55' 06"
Keetmanshoop	Mark against the wall	353° 38' 30"

3.2 Overhauser Magnetometer

The OVH is a GEM Systems type GSM-19 magnetometer. The sensor is installed in an East-West direction. The Electronic unit is powered by a 12V DC power supply via a 220V UPS. The signal levels are converted via two ADAM 4541 fibre optic converters to the computer's serial port. The OVH readings are fed into the computer for processing through an RS232 serial port. The PC serves as the instrument's controller and data logger. The instrument runs continuously and obtains a reading every 5 seconds. From these readings one-minute *F* values are derived. These are calculated by the computer and are available on the screen. A graphic display of the last 24 hours recorded data is also available.

3.3 F pillar corrections

At Hermanus D and I are measured on pillar no. 1 in the Absolute House, and F is obtained from an Overhauser sensor which forms part of the suspended dldD vector magnetometer. At Hartebeesthoek, Tsumeb and Keetmanshoop D and I are measured in the so-called "Standard Huts", while F is obtained from an Overhauser sensor. Site differences were obtained at regular intervals at each observatory to enable the F measurements to be reduced to the standard pillar:

$$F_{\text{standard pillar}} = F_{\text{PPM/dIdD/OVH}} + \Delta F_{\text{pillar}}$$

The following are the adopted values for the year:

	Site differences of $\Delta F_{ m pillar}$										
Herm	nanus	Hartebeesthoek		Tsu	ımeb	Keetmanshoop					
Period (Day numbers)	Correction	Period (Day numbers)	Correction	Period (Day numbers)	Correction	Period (Day numbers)	Correction				
1 – 213	-2.1 nT	1 –180	88.0 nT	1 – 16	15.3 nT	1 – 366	4.5 nT				
214 – 366	-0.7 nT	181-366	87.8 nT	17-366	17.5 nT						

4. VECTOR MAGNETOMETERS

4.1 FGE Magnetometer

A type FGE fluxgate manufactured by the Danish Meteorological Institute, Denmark is in operation at all four magnetic observatories.

The sensor unit consists of three orthogonally mounted sensors on a marble cube. In order to improve long-term stability these sensors have compensation coils wound on quartz tubes in order to obtain a sensor drift of only a few nT per year. The marble cube is suspended by two strips of crossed phosphor-bronze working as a Cardan's suspension to compensate for pillar tilting which might cause baseline drift.

The sensors may be set up to record either X, Y and Z or H, D and Z components. The latter orientation has been chosen to keep the continuity of earlier recordings.

The box containing the electronics is almost magnetic free and is placed about 3 meters from the sensor. At this distance it has no effect on the recordings. Temperature outputs for the sensor and the electronics are also available.

The recording rate is 1 second, but sampling is done every 5 seconds. And according to INTERMAGNET specifications a numerical filter is applied in order to obtain the final minute data series.

Technical specifications are:

Analogue output ± 10 volt Dynamic range 3000 nT p-p Resolution 0.2 nT Scale value 150 nT/volt Misalignment of sensor axis < 7 min of arc < 3nT/year Long term drift Temperature coefficient, sensor < 0.2 nT/°C Temperature coefficient, electronics < 0.1 nT/°C Band pass DC to 1 Hz

4.2 Suspended dldD Magnetometer

The Suspended dldD is a vector magnetometer for continuous monitoring of the inclination, declination and total intensity of the Earth's magnetic field. It employs a mutually orthogonal coil system that measures one unbiased and four biased values of total magnetic fields. The axes of the coil are arranged so that the axes of the mutually orthogonal coils are themselves perpendicular to the Earth's magnetic field vector, F, in the geomagnetic horizontal and vertical planes.

Equal and opposite currents are sequentially introduced into the "Inclination" (I) coil, which is perpendicular to F. These deflection fields lie in the local geomagnetic meridian plane. The resultant deflected values of F (I+ and I-) as measured by the Overhauser magnetometer are logged. The undeflected value of F is also logged.

Then, equal and opposite currents are sequentially introduced into the "Declination" (D) coil, which is also perpendicular to F. The D deflection fields lie in the horizontal plane. The resultant deflected values of F (D+ and D-) as measured by the Overhauser magnetometer are also logged. A simple algorithm is used to determine the instantaneous angular differences between the coil axes and the direction of the earth vector, F. These angular differences are dI and dD. Adding dI and dD to baseline values of Inclination and Declination for the coil system gives the instantaneous Inclination and Declination values of F. The components H and Z are computed.

GEM Systems' advanced Overhauser design employs continuous radio frequency polarization and special sensors to maximise the signal-to-noise ratio.

Technical specifications are:

Dynamic range 20,000 to 120,000 nT

Sensitivity 0.01 nT Resolution 0.01 nT Absolute accuracy 0.2 nT

Operating temperature -40°C to + 55°C
Temperature coefficient < 0.1 nT/°C
Long term drift < 2 nT/year

A cycling time of 1 sec was used which corresponds to a reading every 5 secs. From these readings one-minute values were derived.

The data is logged by the DIMARK data acquisition system supplied by the Eötvös Lorànd Geophysical Institute, Hungary.

5. PRESENTATION OF RESULTS

5.1 Base-line values

The observed and adopted base-line values are shown in a graphical form. The Hartebeesthoek, Tsumeb and Keetmanshoop base-line values show fluctuations different from Hermanus that can be attributed to the fact that fewer absolute observations are done at these 3 observatories. The adopted base line values were computed applying the technique of cubic spline fitting on the observed base-line values.

For Tsumeb observatory, due to failure of the Fluxgate and Overhauser magnetometers there were no recorded data for the periods 3 March – 8 May 2008 and 10 November – 31 December 2008.

For Hartebeesthoek observatory, due to failure of the Fluxgate and Proton magnetometers there were no recorded data for the period 1 January - 28 February 2008. There are no observed base-line values for the period 1 March – 25 April 2008. The adopted base-line values are the results of the interpolation of one measured base-line value in February and the observed base-line values in the last 5 days of April.

For Keetmanshoop observatory, due to failure of the Fluxgate and Overhauser magnetometers there were no recorded data for the period 11 - 21 February, and 27 November - 5 December 2008.

5.2 One-minute mean values

One-minute mean values, centred on the minute, were calculated by applying the Gaussian coefficients to a series of 19 samples of 5-second data. For a filter output value to be centred on the minute; the first coefficient was applied 45 seconds before this minute and the last coefficient was applied 45 seconds after the minute.

5.3 Hourly mean values

Hourly mean values, centred on the UT half hour, are computed from the one-minute values. A value is not computed if there are more than 6 one-minute values missing. The data presentation is *XYZF* rather than *HDZF* as it is more convenient for the user who is interested in certain events to compare component values.

5.4 Daily mean values

Daily mean values, centred on the UT half day, are computed from the one-minute values. A value is not computed if there are more than 144 one-minute values missing.

5.5 Monthly mean values

Monthly mean values are calculated from the daily mean values of H, D and Z. Monthly means are not computed if there is any missing daily value. The mean values of X, Y, F and I are calculated from the corresponding mean values of H, D and Z. Annual mean values are also calculated from the daily mean values. Monthly and annual mean values are also calculated for the five international quiet and disturbed days in each month.

5.6 Mean annual values

Mean annual values since the start of each observatory are presented in a separate table. The values are centred on the middle of each year. Graphical presentations of mean annual values are also included, but only for *D*, *H*, *Z* and *F*. Site differences were taken into account when the data were plotted.

6. INDICES

6.1 K-indices

K-indices are only computed at the Hermanus Magnetic Observatory. The index values are determined from the H and D data. The LRNS-method is used and the K9 limit is 300nT. K-indices are sent twice a month to "Service International des Indices Geomagnetiques", Paris.

6.2 am Indices

The Hermanus K-indices are also used in deriving the *am* index, a further planetary activity index.

6.3 Dst indices

The Hermanus Magnetic Observatory also supplies one-minute data to the World Data Centre for Geomagnetism, Kyoto in Japan, for the generation of the Dst ring-current index, which is the most commonly used measure of geomagnetic storm intensity.

7. DATA AVAILABILITY

Tables of hourly mean values of the magnetic elements are no longer published in this series of publications. Final digital one-minute values and hourly values are available through the World Data Center for Geomagnetism, Edinburgh:

http://www.wdc.bgs.ac.uk/catalog/master.html

The data are also published on the annual INTERMAGNET CD-ROM. More information is available from:

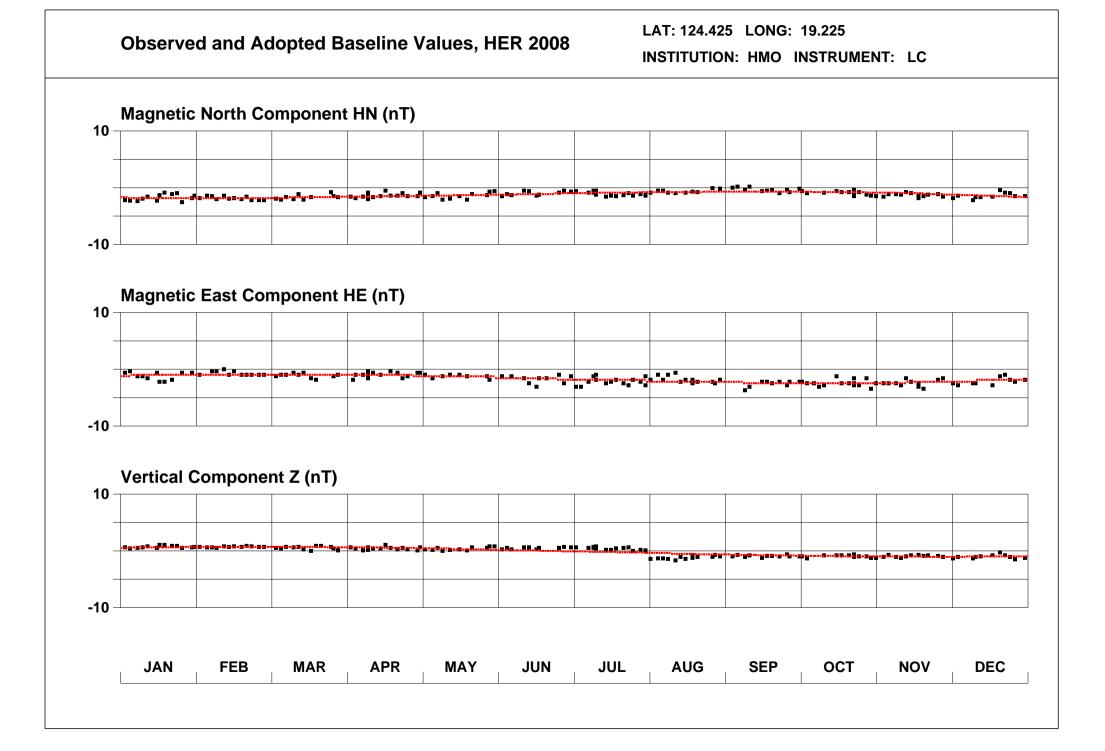
http://www.intermagnet.org

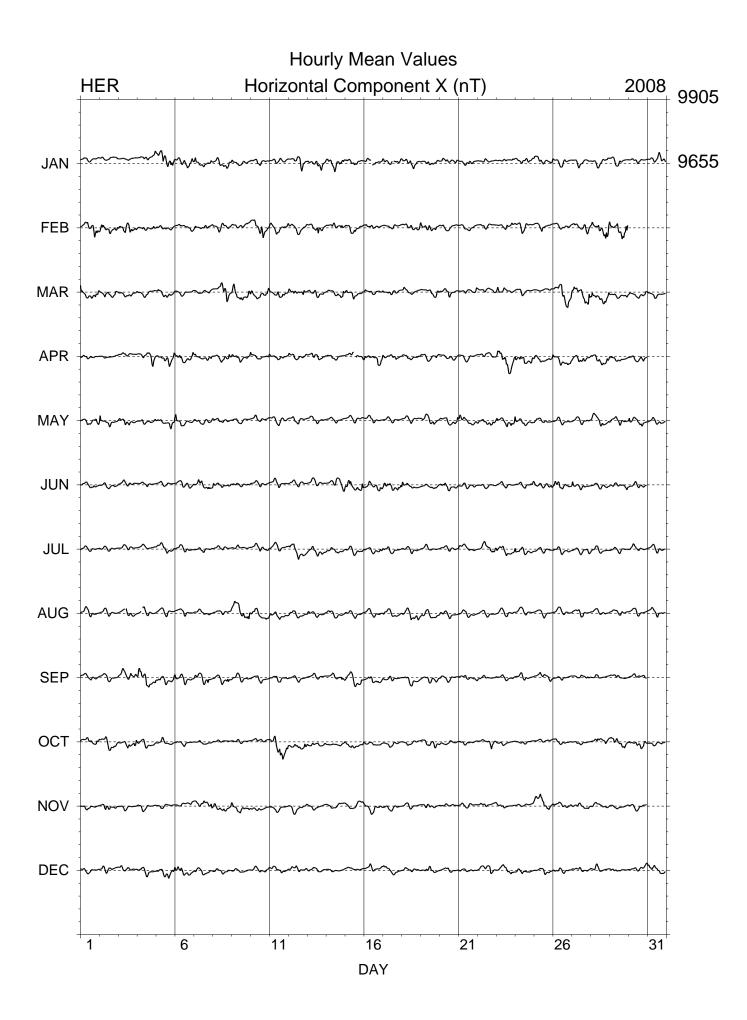
8. CONTACT INFORMATION

Hermanus Magnetic Observatory P.O. Box 32 Hermanus 7200 South Africa

Tel. : +27 (28) 3121196 Fax. : +27 (28) 3122039 Email : info@hmo.ac.za Internet : http://www.hmo.ac.za

Magnetic Results 2008 Hermanus





Hourly Mean Values Horizontal Component Y (nT) **HER** 2008 -4227 JUN -

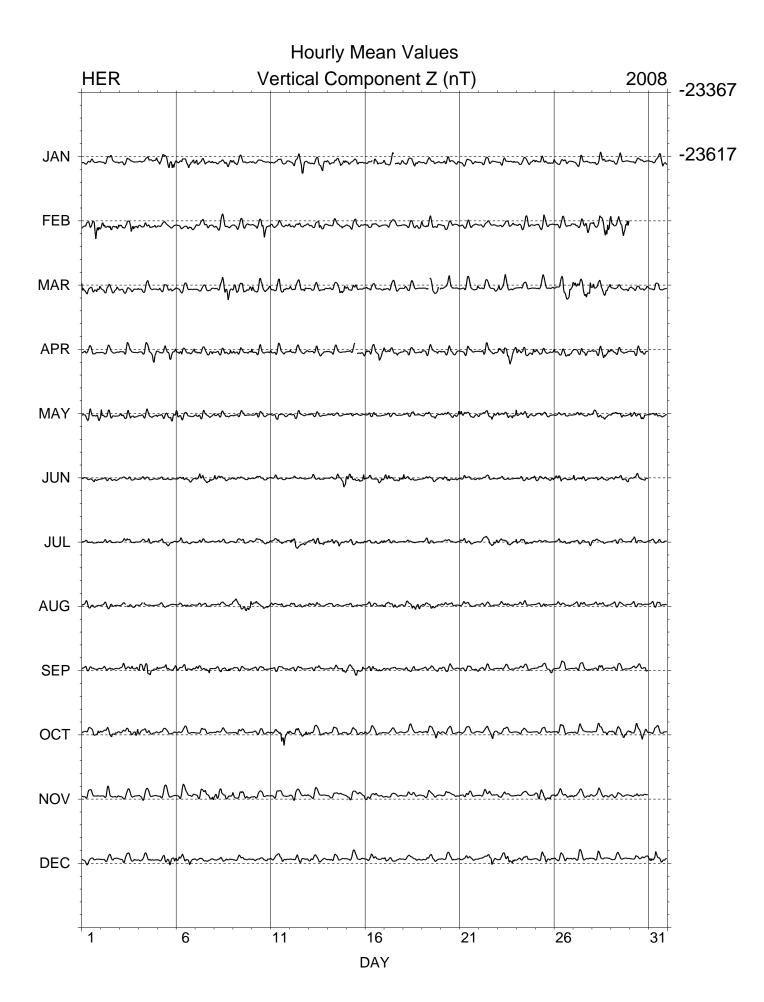
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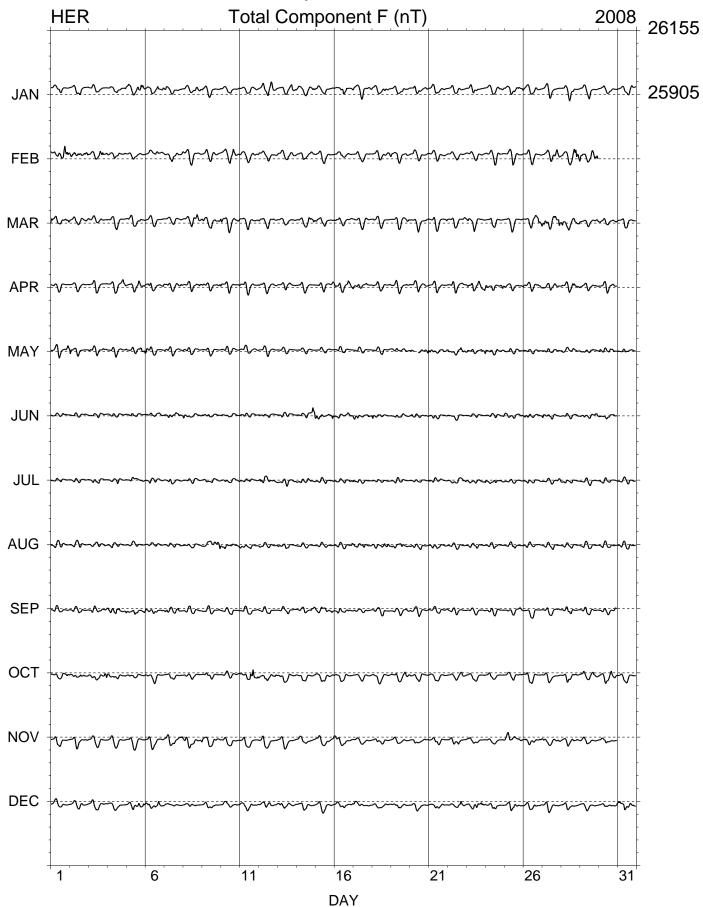
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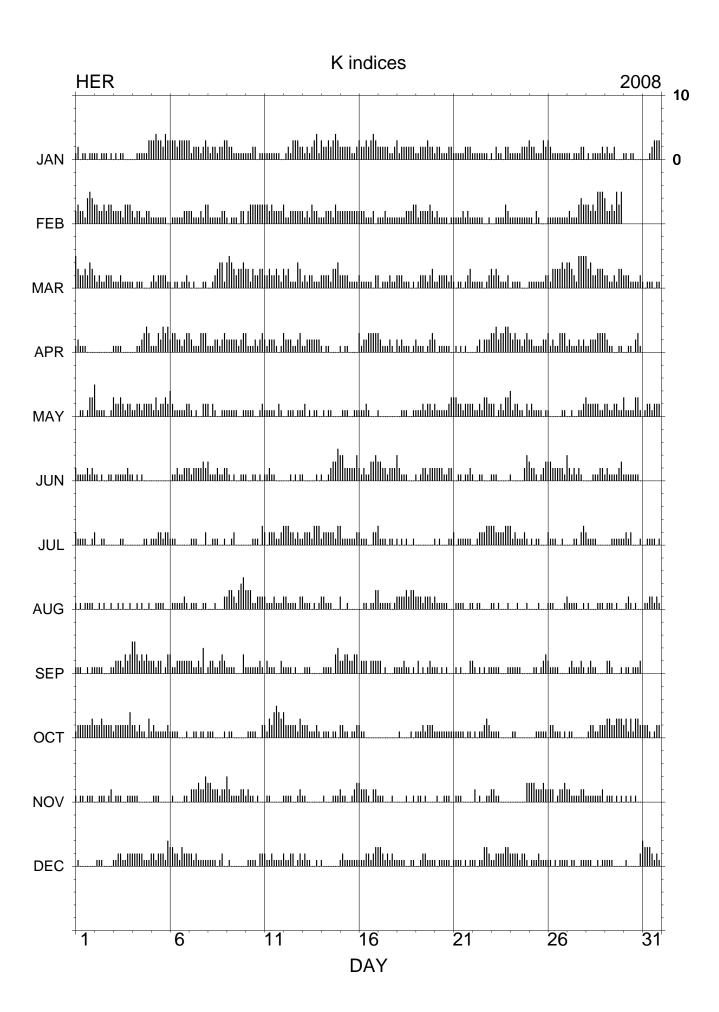
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Hourly Mean Values





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	02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	2111 1001 2001 1000 0001 1000 0000 0110 1112 2122 1110 0000 0011 1001 0012 0000 0001 1103 2022 2112 3332 2121 1222 1333 1222 2213 3111 1112 2111 0022 3111 0110 1010 1001 0000 0000 1010 0011 2011 1111 0012 2233 3322 2233 3121 1121 0101 1000 2111 0010 0001 1023 2111 1000 0001 1111	1010 1111 0010 1001 0010 1001 0010 1001 0011 1100 0111 1121 0111 0011 0001 0002 2332 1345 3331 1222 2111 2111 2211 1102 2111 0101 2211 1000 2001 0000 0011 0113 3111 1101 2222 3233 2221 2221 2111 1100 0111 1001 1011 0001 1011 0001 0001 0001 0001 0001 0001 0100 1110 0001 0000 1111 0011 0110 0001 1110 0001 1110 0001 2111 1001 0110 0111 0110 0111	1110 0101 1111 0001 1222 1323 5532 3232 2212 2013 3112 2222 2211 2140 1221 1232 1111 0003 1111 1121 0211 1002 1111 0100 0111 0000 0111 1034 2233 2233 0222 0222 2201 0001 1112 1101 0201 0121 1101 0100 0111 0002 2101 0101 1111 0001 1111 1000 0111 1000 0111 1000 0111 1000 0111 1000 0111 1000 0111 1000 0111 1000 0111 1000 0111 1000 0111 1000 0111 1000 0111 1000 0111 1000 0111 1000 0111 1000 0121 1121 0121 1000 0221 0001	1222 2223 2223 2222 1222 2224 2212 1103 1211 1112 1111 0001 0011 0110 1110 0000 0111 1002 2132 4543 4222 2213 2221 1121 0111 0110 2211 0112 2110 0000 0000 0000 0100 0010 1112 1222 1111 1111 1111 1011 0101 1232 1111 0000 0110 0000 0110 0000 0110 0000 0110 0000 0111 0000 0111 0000 0121 1121 0112 1222 1332 1333	1011 0111 0011 1012 0111 0011 1110 0000 0111 0000 0111 0000 0101 0011 0222 3224 3322 2122 4211 1122 1211 0100 0110 0000 0110 0000 0110 0111 2110 0123 3222 1022 1110 0010 0000 1001 0110 1000 0100 1110 0111 0000 0100 1110 0111 0000 0100 1110 0111 0000 0101 0111 2211 0000 0000 1001 2211 0000 0000 33332 2232 2220 1223 2211 1122 1111 1112 0111 0101	0100 0000 0111 0000 1122 1122 2222 2111 2212 2214 3322 1322 2212 1111 1111 0120 0100 0000 0111 1022 2112 1111 2112 2012 1211 0010 1000 0000 1211 1111 1112 2123 3321 2121 1111 0011 1001 1110 1111 0101 1101 1332 1122 2233 2222 1221 0111 2111 1011 1110 1111 0111 1110 0111 1110 0111 1110 0111 1110 0101 1111 0101
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HERMANUS MEAN MONTHLY VALUES 2008

Date	0	D ,	。 I	H nT	X nT	Y nT	Z nT	F nT	*	ELE
JAN	-24	49.9	-65 44.				-23637	25926	A	HDZF
FEB	-24	50.9	-65 45.				-23634	25921	Α	\mathtt{HDZF}
MAR		51.5	-65 45.	7 1063			-23629	25913	Α	\mathtt{HDZF}
APR		52.3	-65 45.				-23627	25911	Α	HDZF
MAY		52.5	-65 44.				-23623	25910	Α	HDZF
JUN		52.6	-65 44.				-23620	25907	Α	HDZF
JUL		52.9	-65 44.				-23616	25903	Α	HDZF
AUG		53.2	-65 43.				-23611	25901	Α	HDZF
SEP		53.7	-65 44.				-23609	25897	Α	HDZF
OCT		54.2	-65 44.				-23605	25892	Α	HDZF
NOV	-24	54.6	-65 43.				-23601	25891	Α	HDZF
DEC		54.5	-65 42.				-23599	25890	A	HDZF
YEAR	-24	52.7	-65 44.	.4 1064	4 9656	-4478	-23617	25905	A	HDZF
JAN	-24	49.5	-65 43.	6 1065	8 9674	-4475	-23634	25927	Q	HDZF
FEB	-24	50.4	-65 44.	5 1065	0 9664	-4474	-23631	25920	Q	HDZF
MAR		51.3	-65 45.	0 1064	3 9658	-4474	-23628	25914	Q	HDZF
APR	-24	52.2	-65 45.	0 1064	3 9656	-4476	-23625	25912	Q	HDZF
MAY	-24	52.5	-65 44.	1 1064	8 9661	-4479	-23621	25911	Q	HDZF
JUN	-24	52.1	-65 44.	0 1064	8 9660	-4478	-23619	25908	Q	HDZF
JUL	-24	52.7	-65 44.	0 1064			-23615	25904	Q	HDZF
AUG	-24	53.2	-65 43.	3 1065	0 9661	-4482	-23610	25902	Q	HDZF
SEP	-24	53.6	-65 43.				-23608	25898	Q	HDZF
OCT		54.3	-65 43.				-23603	25893	Q	HDZF
NOV		55.3	-65 42.				-23600	25892	Q	HDZF
DEC		55.1	-65 42.				-23600	25891	Q	HDZF
YEAR	-24	52.7	-65 43.	.8 1064	8 9660	-4480	-23616	25906	Q	HDZF
JAN	-24	50.6	-65 45.	1 1064	7 9662	-4473	-23638	25925	D	HDZF
FEB	-24	51.6	-65 46.	0 1064	0 9654	-4473	-23638	25922	D	HDZF
MAR	-24	51.5	-65 46.	9 1062	9 9644	-4468	-23630	25911	D	HDZF
APR		51.9	-65 46.	7 1063	0 9645	-4470	-23628	25910	D	HDZF
MAY		52.4	-65 45.				-23625	25910	D	\mathtt{HDZF}
JUN		52.7	-65 45.				-23621	25907	D	\mathtt{HDZF}
JUL		52.7	-65 45.				-23617	25902	D	HDZF
AUG	-24	52.9	-65 44.			-4477	-23613	25901	D	HDZF
SEP		53.6	-65 44.			_	-23611	25898	D	HDZF
OCT		54.0	-65 44.				-23607	25893	D	HDZF
NOV	-24	53.9	-65 43.				-23603	25892	D	HDZF
DEC		54.3	-65 43.				-23601	25890	D	HDZF
YEAR	-24	52.7	-65 45.	.1 1063	9 9652	-4476	-23619	25905	D	HDZF

*A: All days
*Q: Quiet days
*D: Disturbed days
ELE: Elements recorded

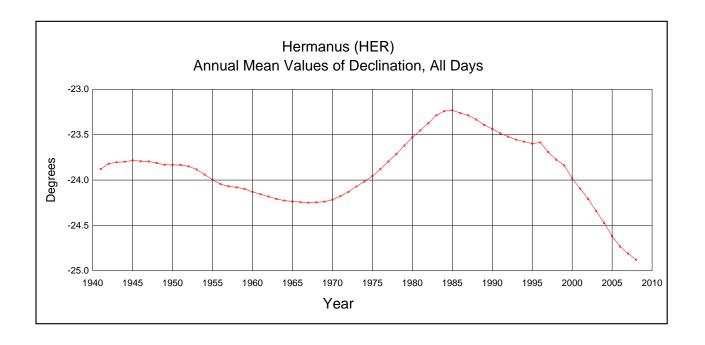
HERMANUS MEAN ANNUAL VALUES

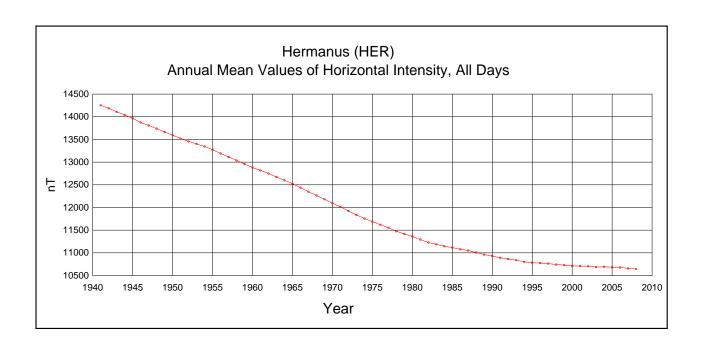
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1942.5	-23 48.1	-64 03.0	14187	12980	-5724	-29153	32422	Α	DHZ
1943.5	-23 47.1	-64 06.4	14109	12911	-5690	-29065	32309	Α	DHZ
1944.5	-23 46.8	-64 09.1	14040	12848	-5661	-28981	32202	А	DHZ
1945.5	-23 45.9	-64 12.4	13966	12782	-5628	-28900	32097	А	DHZ
1946.5	-23 46.4	-64 17.5	13875	12697	-5594	-28819	31985	Α	DHZ
1947.5	-23 46.6	-64 19.9	13809	12637	-5567	-28734	31880	A	DHZ
1948.5	-23 47.6	-64 22.4	13739	12571	-5543	-28642	31767	Α	DHZ
1949.5	-23 48.8	-64 25.8	13664	12501	-5517	-28557	31657	Α	DHZ
1950.5	-23 48.9	-64 28.5	13592	12435	-5488	-28465	31543	Α	DHZ
1951.5	-23 48.9	-64 31.2	13521	12370	-5460	-28373	31430	A	DHZ
1952.5	-23 49.8	-64 33.1	13456	12309	-5436	-28278	31316	A	DHZ
1953.5	-23 51.9	-64 33.9	13401	12255	-5422	-28179	31203	Α	DHZ
1954.5	-23 55.3	-64 35.3	13345	12199	-5411	-28090	31098	A	DHZ
1955.5	-23 58.7	-64 38.7	13275	12130	-5395	-28013	30999	A	DHZ
1956.5	-24 01.6	-64 44.0	13192	12049	-5372	-27950	30907	A	DHZ
1957.5	-24 03.0	-64 48.5	13114	11976	-5344	-27880	30810	A	DHZ
1958.5	-24 03.7	-64 52.6	13038	11905	-5316	-27804	30709	Α	DHZ
1959.5	-24 04.8	-64 56.9	12958	11830	-5287	-27724	30603	A	DHZ
1960.5	-24 06.7	-65 01.0	12879	11755	-5261	-27640	30493	Α	DHZ
1961.5	-24 08.3	-65 02.8	12818	11697	-5242	-27546	30382	A	DHZ
1962.5	-24 09.8	-65 04.8	12750	11633	-5219	-27444	30261	A	DHZ
1963.5	-24 11.4	-65 08.0	12672	11559	-5192	-27340	30134	A	DHZ
1964.5	-24 12.5	-65 10.6	12599	11491	-5166	-27238	30010	A	DHZ
1965.5	-24 13.0	-65 13.5	12526	11423	-5138	-27139	29890	A	DHZ
1966.5	-24 13.5	-65 18.2	12438	11343	-5104	-27046	29769	Α	DHZ
1967.5	-24 13.9	-65 23.3	12348	11260	-5068	-26956	29650	Α	DHZ
1968.5	-24 13.6	-65 27.6	12264	11184	-5032	-26860	29527	A	DHZ
1969.5	-24 13.2	-65 31.6	12182	11110	-4997	-26764	29406	A	DHZ
1970.5	-24 11.9	-65 36.3	12094	11032	-4957	-26668	29282	A	DHZ
1971.5	-24 09.6	-65 40.3	12014	10962	-4917	-26573	29163	Α	DHZ
1972.5	-24 06.7	-65 45.7	11923	10883	-4871	-26482	29042	Α	DHZ
1973.5	-24 03.2	-65 50.7	11837	10809	-4825	-26394	28927	A	DHZ
1974.5	-23 59.9	-65 55.0	11756	10740	-4781	-26302	28810	A	DHZ
1975.5	-23 56.3	-65 57.9	11688	10683	-4743	-26210	28698	A	DHZ
1976.5	-23 51.7	-66 00.9	11620	10627	-4700	-26116	28584	Α	DHZ
1977.5	-23 46.6	-66 03.5	11555	10574	-4659	-26024	28473	Α	DHZ
1978.5	-23 41.7	-66 08.1	11475	10508	-4611	-25937	28362	Α	DHZ
1979.5	-23 36.1	-66 10.2	11416	10461	-4571	-25846	28255	Α	DHZ
1980.5	-23 30.6	-66 11.4	11363	10420	-4533	-25753	28148	A	DHZ

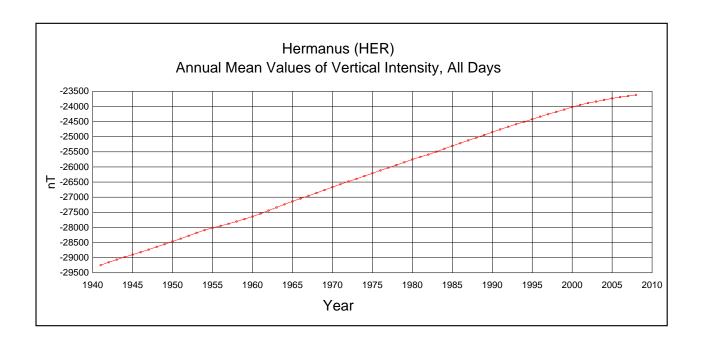
HERMANUS MEAN ANNUAL VALUES

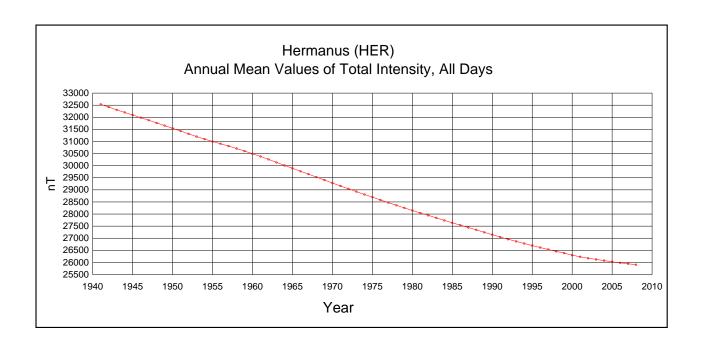
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1981.5	-23 26.1	-66 15.0	11293	10362	-4492	-25667	28042	A	DHZ
1982.5	-23 21.3	-66 18.6	11228	10309	-4452	-25591	27946	Α	DHZ
1983.5	-23 16.0	-66 18.4	11188	10279	-4420	-25496	27843	Α	DHZ
1984.5	-23 13.3	-66 18.3	11147	10244	-4395	-25399	27737	Α	DHZ
1985.5	-23 12.7	-66 17.2	11115	10216	-4381	-25304	27638	Α	DHZ
1986.5	-23 14.6	-66 16.8	11079	10180	-4373	-25215	27542	Α	DHZ
1987.5	-23 16.1	-66 15.3	11051	10153	-4366	-25122	27445	Α	DHZ
1988.5	-23 18.9	-66 15.9	11007	10109	-4357	-25034	27347	Α	DHZ
1989.5	-23 22.5	-66 16.7	10960	10061	-4349	-24943	27245	Α	DHZ
1990.5	-23 25.0	-66 15.2	10932	10032	-4345	-24849	27148	Α	DHZ
1991.5	-23 28.0	-66 15.5	10890	9990	-4337	-24759	27049	Α	DHZ
1992.5	-23 30.2	-66 14.0	10864	9963	-4333	-24671	26958	Α	DHZ
1993.5	-23 32.2	-66 12.7	10838	9937	-4329	-24586	26870	Α	DHZ
1994.5	-23 33.5	-66 12.8	10802	9902	-4318	-24507	26783	Α	DHZ
1995.5	-23 34.8	-66 10.7	10783	9883	-4314	-24423	26698	Α	DHZ
1996.5	-23 34.0	-66 07.2	10774	9876	-4308	-24337	26616	Α	DHZ
1997.5	-23 40.4	-66 04.3	10763	9858	-4322	-24255	26536	Α	DHZ
1998.5	-23 45.4	-66 02.7	10742	9833	-4328	-24179	26458	Α	DHZ
1999.0	0 1.1	0 -0.5	3	4	2	-16	4	J	DHZ
1999.5	-23 50.3	-66 00.3	10730	9815	-4337	-24104	26385	Α	DHZ
2000.5	-23 58.9	-65 57.8	10712	9788	-4355	-24018	26299	Α	DHZ
2001.5	-24 05.7	-65 54.4	10709	9776	-4372	-23948	26234	Α	DHZ
2002.5	-24 12.5	-65 51.7	10703	9762	-4389	-23885	26174	Α	DHZ
2003.5	-24 20.5	-65 51.1	10687	9738	-4406	-23838	26124	Α	DHZ
2004.5	-24 28.4	-65 47.5	10692	9732	-4430	-23782	26076	Α	DHZ
2005.5	-24 37.1	-65 46.1	10682	9712	-4450	-23733	26027	Α	DHZ
2006.5	-24 44.0	-65 44.2	10678	9698	-4468	-23689	25984	Α	DHZ
2007.5	-24 48.6	-65 44.7	10658	9675	-4473	-23655	25945	Α	DHZ
2008.5	-24 52.7	-65 44.4	10644	9656	-4478	-23617	25905	A	DHZ

^{*}A: All days
*I: Incomplete
*J: Jump in data, jump value = old site value - new site value
ELE: Elements recorded

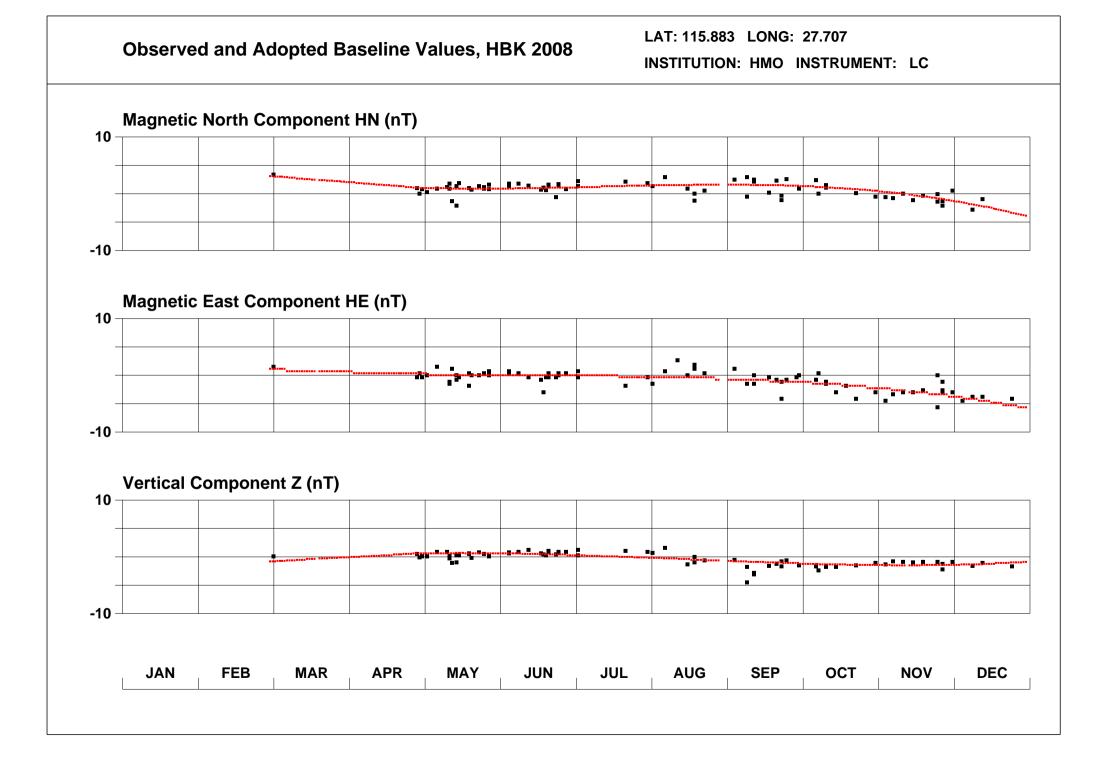


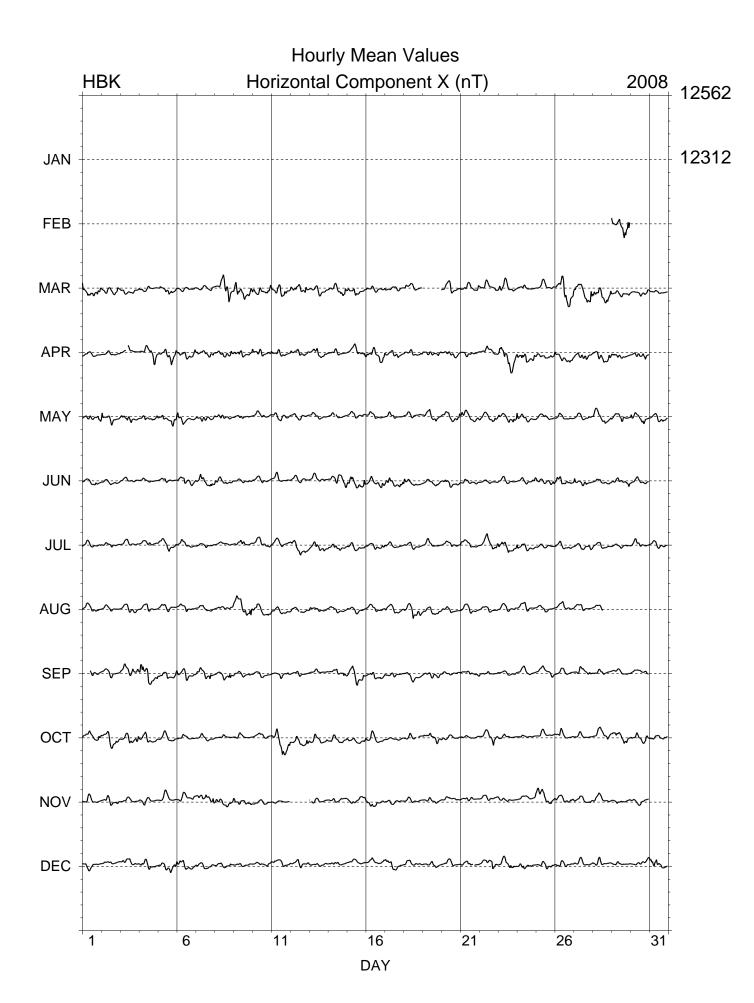




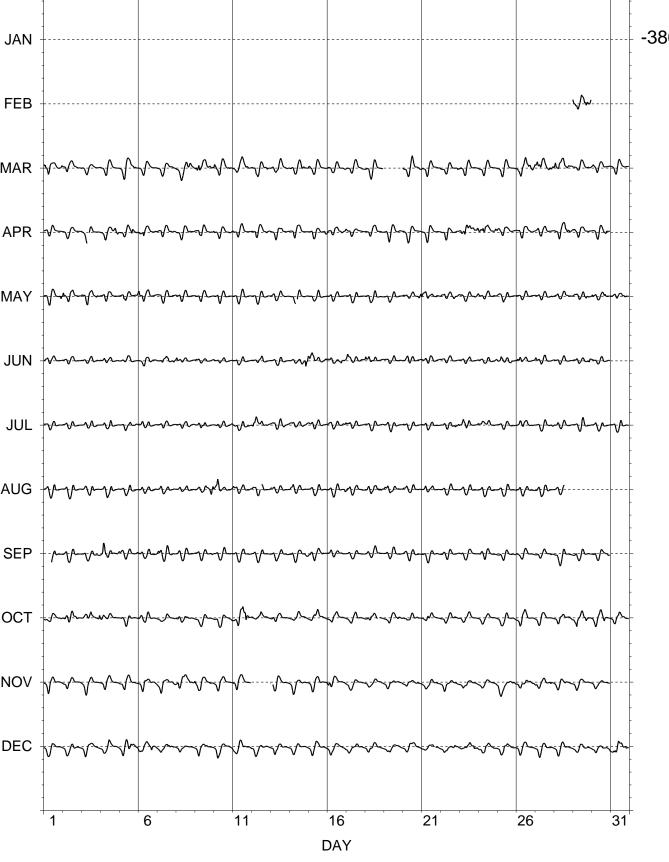


Magnetic Results 2008
Hartebeesthoek





Hourly Mean Values 2008 -3610 Horizontal Component Y (nT) **HBK** -3860 JAN **FEB**



Hourly Mean Values Vertical Component Z (nT) 2008 **HBK** -25067 -25317 JAN **FEB** MAY JUN JUL AUG SEP OCT DEC 11 6 16 21 26 31

DAY

Hourly Mean Values 2008 28666 Total Component F (nT) **HBK** 28416 JAN **FEB** MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 6 11 16 21 26 31

DAY

HARTEBEESTHOEK MEAN MONTHLY VALUES 2008

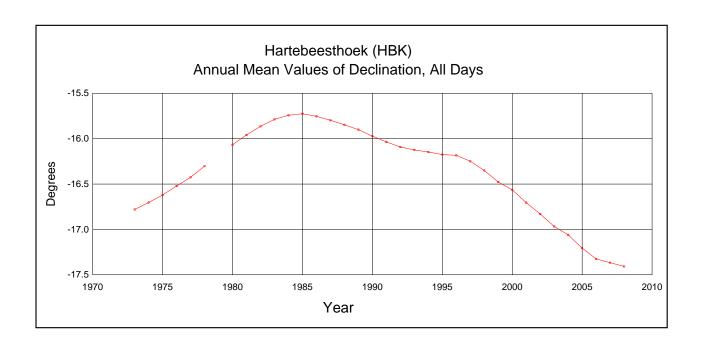
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JAN	***	***	*** ***	****	****	****	****	****	А	HDZF
FEB	* * *	****	*** ***	****	****	****	****	****	A	HDZF
MAR	-17	24.4	-63 01.2	12895	12305	-3858	-25331	28427	A	HDZF
APR	-17	24.1	-63 01.1	12895	12305	-3856	-25328	28423	A	HDZF
MAY	-17		-63 00.3	12901	12310	-3858	-25324	28421	Α	HDZF
JUN	-17		-63 00.1	12901	12310	-3858	-25320	28416	Α	HDZF
JUL	-17	24.4	-62 59.7	12903	12312	-3860	-25318	28414	A	HDZF
AUG	-17		-62 59.3	12905	12314	-3861	-25315	28415	A	HDZF
SEP	-17		-62 59.2	12904	12313	-3863	-25312	28412	A	HDZF
OCT	-17	24.6	-6259.0	12904	12312	-3861	-25306	28407	A	HDZF
NOV	-17	25.0	-62 58.2	12912	12320	-3865	-25308	28411	A	HDZF
DEC	-17	25.3	-62 58.0	12914	12321	-3866	-25308	28412	A	HDZF
YEAR	-17	24.6	-62 59.6	12903	12312	-3861	-25317	28416	A	HDZF
JAN	***	****	*** ***	****	****	****	*****	****	Q	HDZF
FEB	* * *	****	*** ***	****	****	****	*****	****	Q	HDZF
MAR	-17	24.3	-63 00.2	12903	12313	-3860	-25328	28428	Q	HDZF
APR	-17	24.1	-63 00.6	12899	12309	-3858	-25326	28425	Q	HDZF
MAY	-17		-62 59.5	12907	12316	-3860	-25322	28422	Q	HDZF
JUN	-17	23.9	-62 59.4	12907	12316	-3859	-25319	28418	Q	HDZF
JUL	-17		-6259.4	12906	12315	-3860	-25318	28416	Q	HDZF
AUG	-17		-62 58.7	12911	12319	-3864	-25314	28416	Q	HDZF
SEP	-17	25.1	-62 58.7	12909	12317	-3864	-25310	28413	Q	HDZF
OCT	-17	24.8	-62 58.1	12910	12319	-3863	-25304	28408	Q	HDZF
NOV	-17	25.5	-62 57.7	12915	12322	-3867	-25306	28410	Q	HDZF
DEC	-17	25.7	-62 58.0	12914	12321	-3868	-25308	28412	Q	HDZF
YEAR	-T /	24.7	-62 59.0	12908	12317	-3862	-25316	28417	Q	HDZF
JAN	***	***	*** ***	****	****	****	*****	****	D	HDZF
FEB	* * *	****	*** ***	****	****	****	*****	****	D	HDZF
MAR	-17	23.9	-63 02.6	12884	12295	-3853	-25333	28423	D	HDZF
APR	-17	23.9	-63 02.1	12887	12297	-3854	-25330	28421	D	HDZF
MAY	-17		-63 00.7	12897	12307	-3857	-25325	28420	D	HDZF
JUN	-17		-63 00.3	12899	12308	-3858	-25320	28415	D	HDZF
JUL	-17	24.3	-63 00.5	12896	12306	-3858	-25319	28413	D	HDZF
AUG	-17	24.4	-62 59.8	12901	12311	-3859	-25316	28412	D	HDZF
SEP	-17	24.9	-63 00.1	12897	12306	-3860	-25314	28411	D	HDZF
OCT	-17	24.5	-62 59.9	12898	12307	-3859	-25312	28409	D	HDZF
NOV	-17	25.1	-62 58.7	12909	12317	-3864	-25311	28413	D	HDZF
DEC	-17	25.0	-62 58.5	12909	12317	-3864	-25308	28410	D	HDZF
YEAR	- T /	24.4	-63 00.3	12898	12307	-3858	-25319	28415	D	HDZF

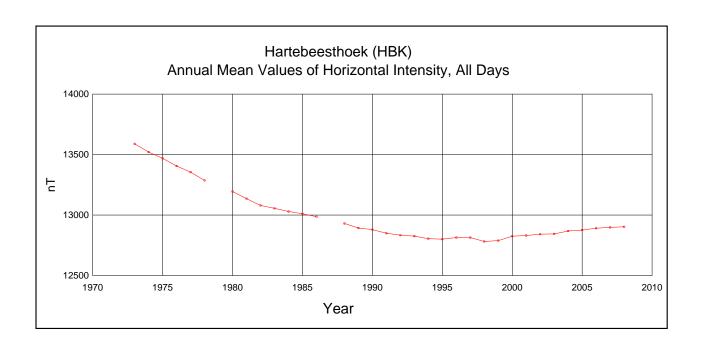
*A: All days
*Q: Quiet days
*D: Disturbed days
ELE: Elements recorded

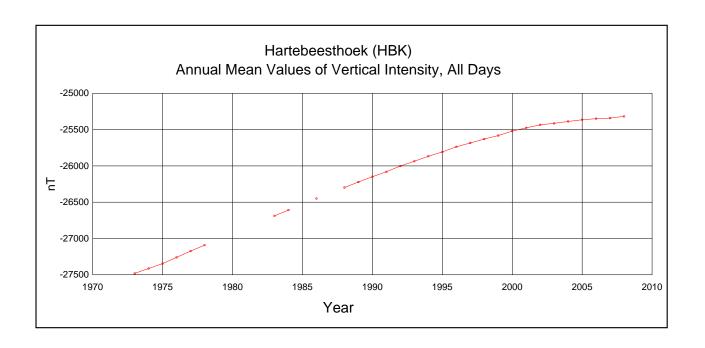
HARTEBEESTHOEK MEAN ANNUAL VALUES

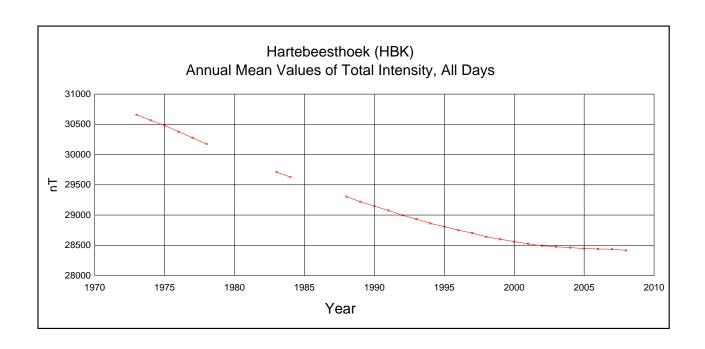
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1973.5	-16 46.6	-63 41.5	13588	13010	-3919	-27481	30657	I	DHZ
1974.5	-16 42.0	-63 45.0	13520	12950	-3885	-27414	30567	Α	DHZ
1975.5	-16 37.0	-63 46.8	13468	12905	-3852	-27346	30482	Α	DHZ
1976.5	-16 31.1	-63 49.0	13405	12852	-3811	-27260	30378	Α	DHZ
1977.5	-16 25.3	-63 49.8	13354	12810	-3775	-27174	30278	Α	DHZ
1978.5	-16 17.9	-63 52.6	13286	12752	-3729	-27092	30174	I	DHZ
1979.5	999 99.9	999 99.9	99999	99999	99999	99999	99999	I	DHZ
1980.5	-16 03.8	999 99.9	13194	12679	-3651	99999	99999	I	DHZ
1981.5	-15 57.3	999 99.9	13135	12629	-3610	99999	99999	I	DHZ
1982.5	-15 51.6	999 99.9	13079	12581	-3574	99999	99999	I	DHZ
1983.5	-15 47.0	-63 56.0	13055	12563	-3551	-26688	29711	I	DHZ
1984.5	-15 44.3	-63 54.5	13029	12541	-3534	-26608	29627	I	DHZ
1985.5	-15 43.3	999 99.9	13010	12524	-3525	99999	99999	I	DHZ
1986.5	-15 45.0	999 99.9	12986	99999	99999	-26449	99999	I	DHZ
1987.5	-15 47.6	999 99.9	99999	99999	99999	99999	99999	I	DHZ
1988.5	-15 50.6	-63 49.1	12930	12439	-3530	-26298	29305	I	DHZ
1989.5	-15 53.8	-63 49.1	12892	12396	-3531	-26222	29219	I	DHZ
1990.5	-15 58.1	-63 46.8	12879	12382	-3543	-26149	29149	I	DHZ
1991.5	-16 01.9	-63 46.5	12849	12349	-3548	-26081	29075	I	DHZ
1992.5	-16 05.3	-63 44.0	12833	12330	-3556	-26002	28997	I	DHZ
1993.5	-16 07.2	-63 41.3	12825	12321	-3560	-25936	28934	I	DHZ
1994.5	-16 08.6	-63 40.0	12804	12299	-3560	-25867	28862	I	DHZ
1995.5	-16 10.3	-63 37.3	12800	12294	-3565	-25808	28808	Α	DHZ
1996.5	-16 10.8	-63 32.1	12813	12306	-3570	-25737	28750	Α	DHZ
1997.5	-16 14.7	-63 29.3	12813	12302	-3584	-25684	28703	I	DHZ
1998.5	-16 20.8	-63 29.8	12781	12265	-3597	-25630	28640	I	DHZ
1999.5	-16 28.4	-63 26.4	12788	12263	-3626	-25582	28600	A	DHZ
2000.0	0 0.0	0 -4.8	-35	-34	11	-18	0	J	DHZ
2000.5	-16 33.8	-63 19.1	12825	12293	-3656	-25520	28561	Α	DHZ
2001.5	-16 42.3	-63 16.0	12831	12290	-3688	-25475	28524	I	DHZ
2002.5	-16 49.8	-63 12.7	12842	12292	-3718	-25434	28492	I	DHZ
2003.5	-16 58.0	-63 11.4	12844	12285	-3748	-25413	28475	Α	DHZ
2004.5	-17 03.6	-63 07.3	12868	12302	-3775	-25387	28462	I	DHZ
2005.5	-17 12.4	-63 05.2	12876	12300	-3809	-25364	28446	Α	DHZ
2006.5	-17 19.5	-63 02.7	12891	12306	-3839	-25349	28439	Α	DHZ
2007.5	-17 22.0	-63 01.4	12898	12310	-3850	-25341	28435	I	DHZ
2008.5	-17 24.5	-62 59.6	12903	12312	-3860	-25317	28416	I	DHZ

^{*}A: All days
*I: Incomplete
*J: Jump in data, jump value = old site value - new site value
ELE: Elements recorded

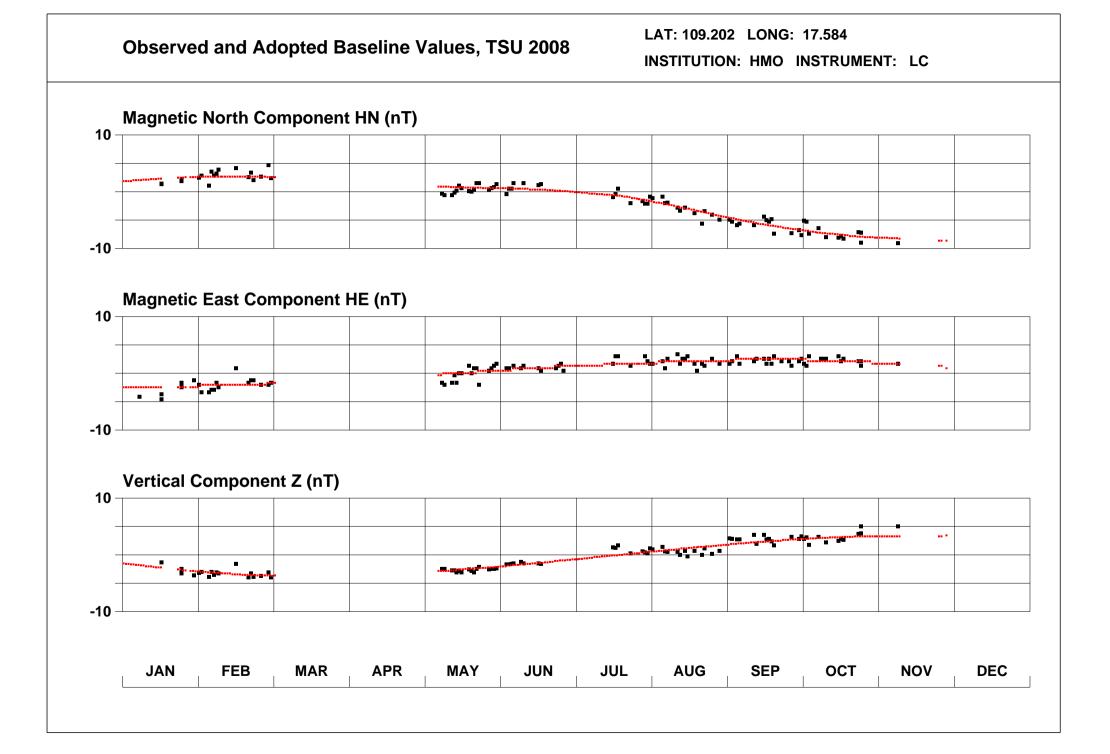


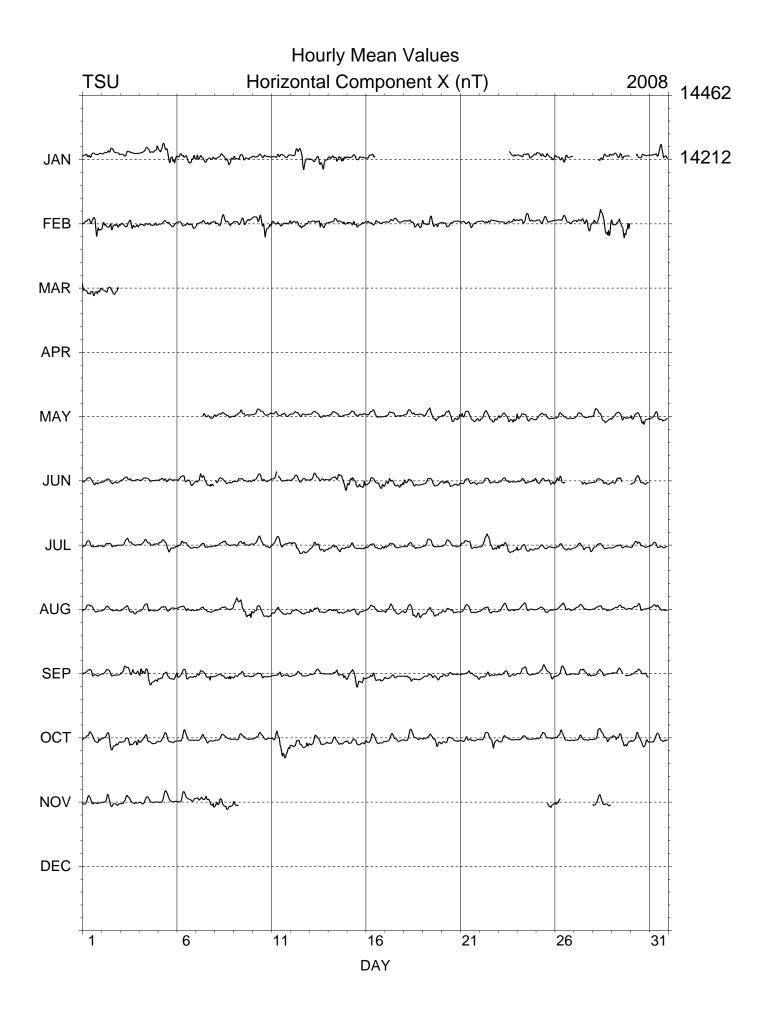


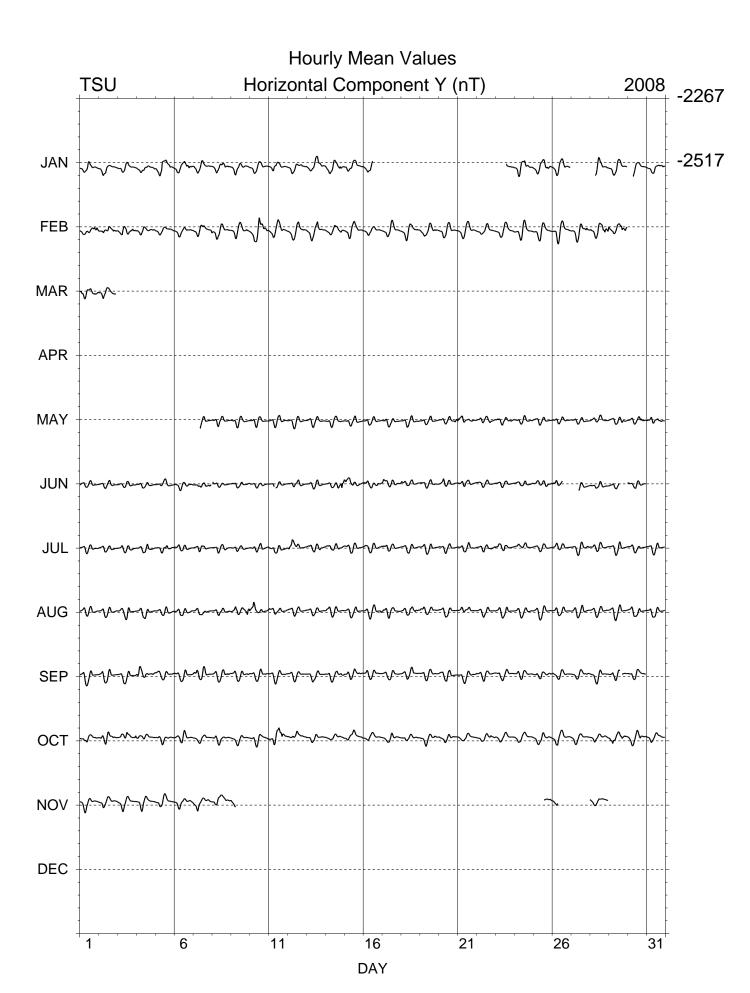


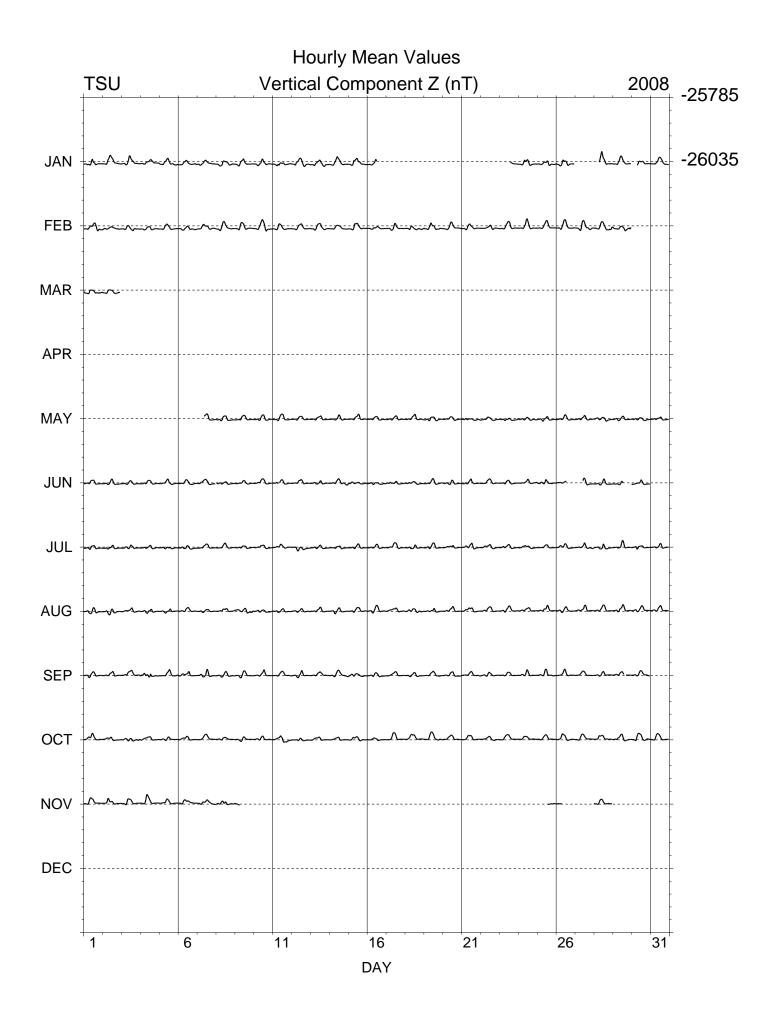


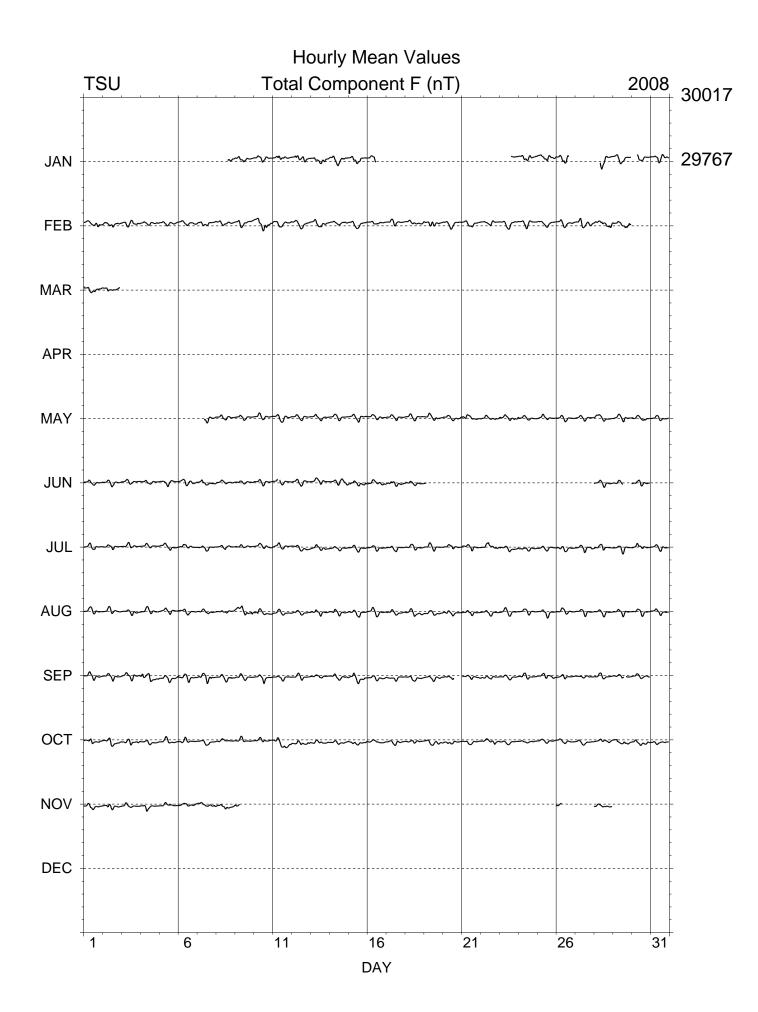
Magnetic Results 2008 Tsumeb











TSUMEB MEAN MONTHLY VALUES 2008

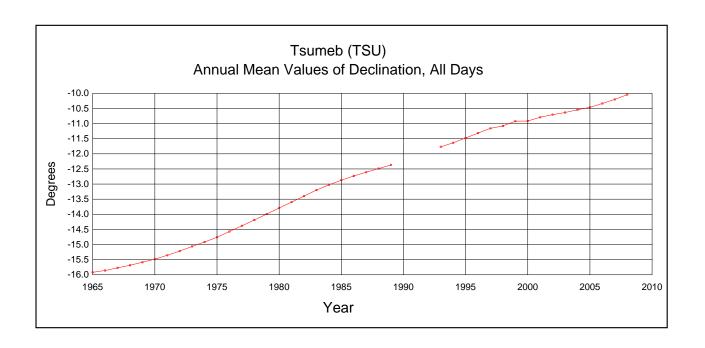
Date	0	D,	。I ,	H nT	X nT	Y nT	Z nT	F nT	*	ELE
JAN	-10	06.2	-60 58.4	14450	14226	-2535	-26041	29780	А	HDZF
FEB	-10	05.8	-60 59.5	14440	14217	-2532	-26042	29777	A	HDZF
MAR	-10	04.5	-61 01.3	14424	14201	-2523	-26043	29770	A	HDZF
APR	* * *	***	*** ***	****	****	****	*****	****	A	HDZF
MAY	-10	03.5	-60 59.4	14438	14216	-2521	-26036	29771	A	HDZF
JUN	-10	02.9	-60 59.9	14433	14211	-2518	-26035	29769	Α	HDZF
JUL	-10	02.4	-61 00.1	14431	14210	-2516	-26036	29766	Α	HDZF
AUG	-10	01.6	-60 59.9	14431	14211	-2513	-26032	29765	Α	HDZF
SEP	-10	01.0	-61 00.2	14428	14208	-2510	-26032	29761	A	HDZF
OCT	-9	59.9	-61 00.5	14424	14205	-2504	-26031	29759	A	HDZF
NOV	-9	59.5	-60 59.4	14434	14215	-2504	-26029	29760	A	HDZF
DEC	* * *	****	*** ***	****	****	****	*****	****	A	HDZF
YEAR	-10	02.6	-60 59.8	14433	14212	-2517	-26035	29767	A	HDZF
JAN	-10	06.6	-60 56.6	14466	14242	-2539	-26037	****	Q	HDZF
FEB	-10	05.6	-60 58.5	14449	14225	-2532	-26040	29779	Q	HDZF
MAR	* * *	****	*** ***	****	****	****	*****	****	Q	HDZF
APR	* * *	****	*** ***	****	****	****	*****	****	Q	HDZF
MAY	-10	03.8	-60 58.8	14444	14222	-2524	-26035	29773	Q	HDZF
JUN	-10	02.8	-60 59.2	14439	14218	-2519	-26034	29772	Q	HDZF
JUL	-10	02.7	-60 59.7	14435	14213	-2518	-26036	29768	Q	HDZF
AUG	-10	01.7	-60 59.3	14436	14215	-2514	-26031	29766	Q	\mathtt{HDZF}
SEP	-10	01.0	-60 59.7	14433	14213	-2511	-26032	29764	Q	\mathtt{HDZF}
OCT	-10	00.1	-60 59.7	14431	14212	-2506	-26029	29762	Q	HDZF
NOV	-10	00.1	-60 59.3	14435	14216	-2507	-26029	29761	Q	HDZF
DEC	* * *	****	*** ***	****	****	****	*****	****	Q	HDZF
YEAR	-10	02.8	-60 59.1	14440	14219	-2519	-26034	29769	Q	HDZF
JAN	-10	06.2	-60 59.0	14446	14222	-2534	-26042	29776	D	HDZF
FEB	-10	06.0	-60 60.0	14436	14212	-2532	-26042	29775	D	HDZF
MAR	-10	04.8	-61 01.5	14421	14199	-2524	-26043	29770	D	HDZF
APR	* * *	****	*** ***	****	****	****	*****	****	D	HDZF
MAY	-10	02.9	-61 00.1	14432	14211	-2518	-26038	29770	D	HDZF
JUN	-10	03.1	-61 00.2	14430	14208	-2519	-26036	29767	D	HDZF
JUL	-10	02.1	-61 00.8	14425	14204	-2513	-26037	29764	D	HDZF
AUG	-10	01.2	-61 00.5	14426	14206	-2510	-26033	29763	D	HDZF
SEP	-10	00.7	-61 01.2	14419	14199	-2507	-26034	29759	D	HDZF
OCT	-9	59.7	-61 01.4	14416	14198	-2502	-26032	29757	D	HDZF
NOV	-9	58.3	-61 01.1	14419	14202	-2497	-26033	29758	D	HDZF
DEC	* * *	****	*** ***	****	****	****	*****	****	D	HDZF
YEAR	-10	02.6	-61 00.5	14428	14207	-2516	-26037	29765	D	HDZF

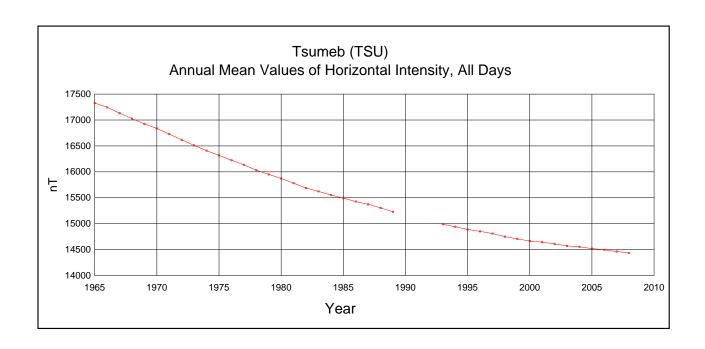
*A: All days
*Q: Quiet days
*D: Disturbed days
ELE: Elements recorded

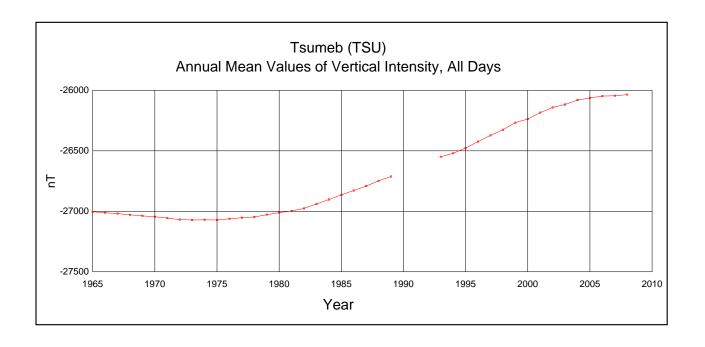
TSUMEB MEAN ANNUAL VALUES

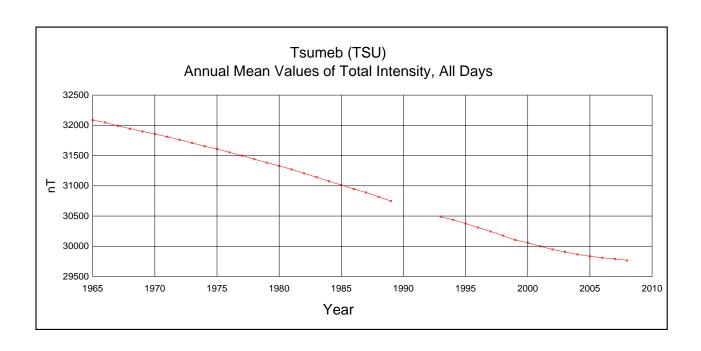
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1965.5	-15 57.4	-57 18.8	17328	16660	-4764	-27004	32086	I	DHZ
1966.5	-15 53.8	-57 26.7	17245	16585	-4724	-27012	32048	I	DHZ
1967.5	-15 48.6	-57 37.3	17133	16484	-4668	-27019	31993	А	DHZ
1968.5	-15 43.4	-57 47.5	17027	16389	-4614	-27029	31945	I	DHZ
1969.5	-15 37.4	-57 57.3	16925	16300	-4558	-27038	31899	I	DHZ
1970.5	-15 31.4	-58 05.7	16837	16222	-4509	-27045	31857	I	DHZ
1971.5	-15 23.6	-58 16.4	16728	16127	-4440	-27056	31810	A	DHZ
1972.5	-15 15.3	-58 27.3	16617	16031	-4372	-27068	31762	A	DHZ
1973.5	-15 06.0	-58 37.4	16510	15940	-4301	-27072	31709	А	DHZ
1974.5	-14 57.2	-58 46.7	16409	15853	-4234	-27070	31655	I	DHZ
1975.5	-14 47.9	-58 55.2	16318	15777	-4168	-27072	31610	Α	DHZ
1976.5	-14 36.4	-59 03.3	16225	15700	-4091	-27062	31553	Α	DHZ
1977.5	-14 25.2	-59 11.2	16135	15627	-4018	-27053	31499	Α	DHZ
1978.5	-14 13.6	-59 20.6	16032	15540	-3940	-27047	31441	Α	DHZ
1979.5	-14 01.8	-59 27.2	15951	15475	-3867	-27028	31383	Α	DHZ
1980.5	-13 49.8	-59 33.6	15873	15413	-3795	-27011	31330	Α	DHZ
1981.5	-13 38.1	-59 41.5	15781	15336	-3720	-26997	31271	Α	DHZ
1982.5	-13 26.2	-59 49.2	15688	15259	-3645	-26976	31206	Α	DHZ
1983.5	-13 14.2	-59 53.4	15623	15208	-3577	-26940	31143	Α	DHZ
1984.5	-13 03.8	-59 58.0	15553	15151	-3516	-26903	31075	Α	DHZ
1985.5	-12 54.7	-60 01.6	15493	15102	-3462	-26864	31012	Α	DHZ
1986.5	-12 46.3	-60 06.0	15427	15045	-3410	-26828	30948	Α	DHZ
1987.5	-12 38.8	-60 09.0	15374	15001	-3366	-26791	30889	Α	DHZ
1988.5	-12 31.6	-60 13.4	15304	14940	-3319	-26748	30817	Α	DHZ
1989.5	-12 24.2	-60 18.6	15230	14874	-3271	-26712	30748	Α	DHZ
1990.5	*** **.*	*** **.*	****	****	****	****	****		
1991.5	*** **.*	*** **.*	****	****	****	****	****		
1992.5	999 99.9	999 99.9	99999	99999	99999	99999	99999	I	DHZ
1993.5	-11 48.4	-60 33.0	14990	14673	-3067	-26549	30488	I	DHZ
1994.5	-11 40.4	-60 36.2	14941	14632	-3023	-26520	30439	I	DHZ
1995.5	-11 30.9	-60 39.0	14889	14589	-2972	-26477	30376	I	DHZ
1996.5	-11 21.1	-60 39.7	14852	14561	-2923	-26424	30311	Α	DHZ
1997.5	-11 11.7	-60 41.1	14809	14527	-2875	-26372	30246	I	DHZ
1998.5	-11 07.0	-60 44.4	14749	14472	-2844	-26326	30176	I	DHZ
1999.5	-10 57.5	-60 45.3	14707	14439	-2796	-26267	30104	I	DHZ
2000.0	0 -2.3	0 -0.2	1	-1	-10	1	-1	J	DHZ
2000.5	-10 54.9	-60 47.8	14665	14400	-2777	-26237	30058	I	DHZ
2001.5	-10 47.4	-60 46.9	14645	14386	-2742	-26184	30001	I	DHZ
2002.5	-10 42.3	-60 48.0	14610	14356	-2714	-26141	29947	I	DHZ
2003.5	-10 38.0	-60 50.5	14571	14321	-2688	-26117	29907	I	DHZ
2004.5	-10 32.6	-60 50.2	14553	14308	-2663	-26080	29866	I	DHZ
2005.5	-10 27.7	-60 52.6	14520	14280	-2637	-26063	29835	I	DHZ
2006.5	-10 20.1	-60 54.3	14495	14260	-2601	-26047	29809	I	DHZ
2007.5	-10 12.0	-60 57.4	14463	14234	-2561	-26045	29791	I	DHZ
2008.5	-10 02.6	-60 59.8	14433	14212	-2517	-26035	29767	I	DHZ

^{*}A: All days
*I: Incomplete
*J: Jump in data, jump value = old site value - new site value
ELE: Elements recorded

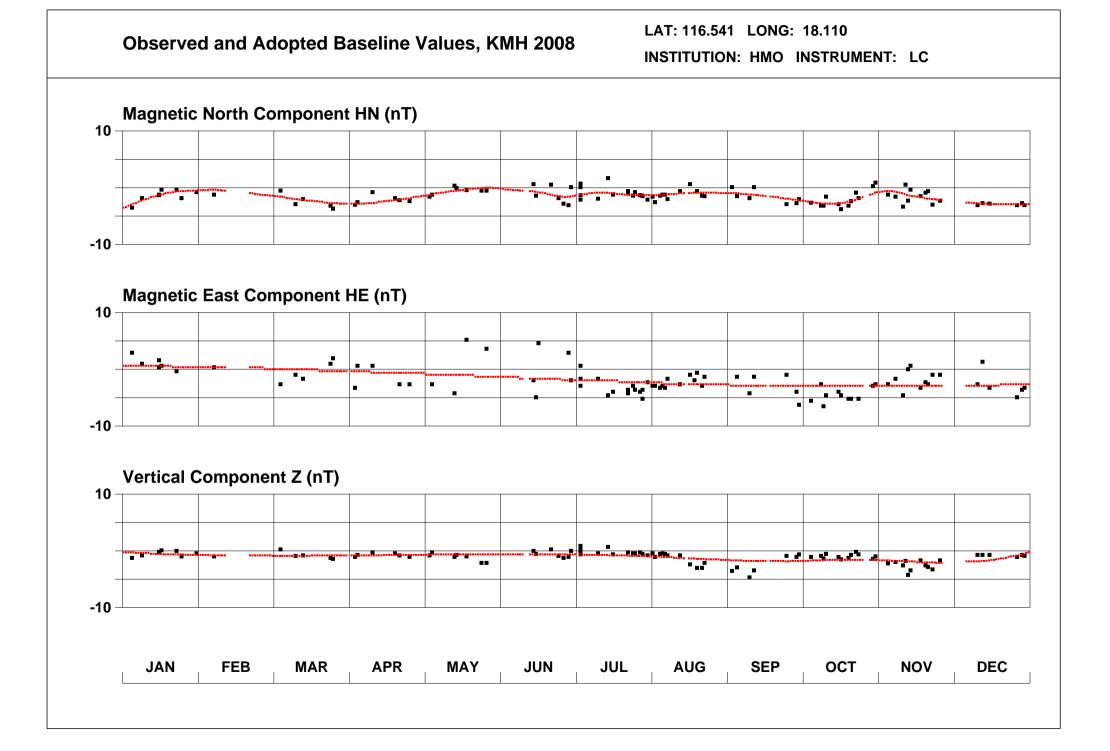


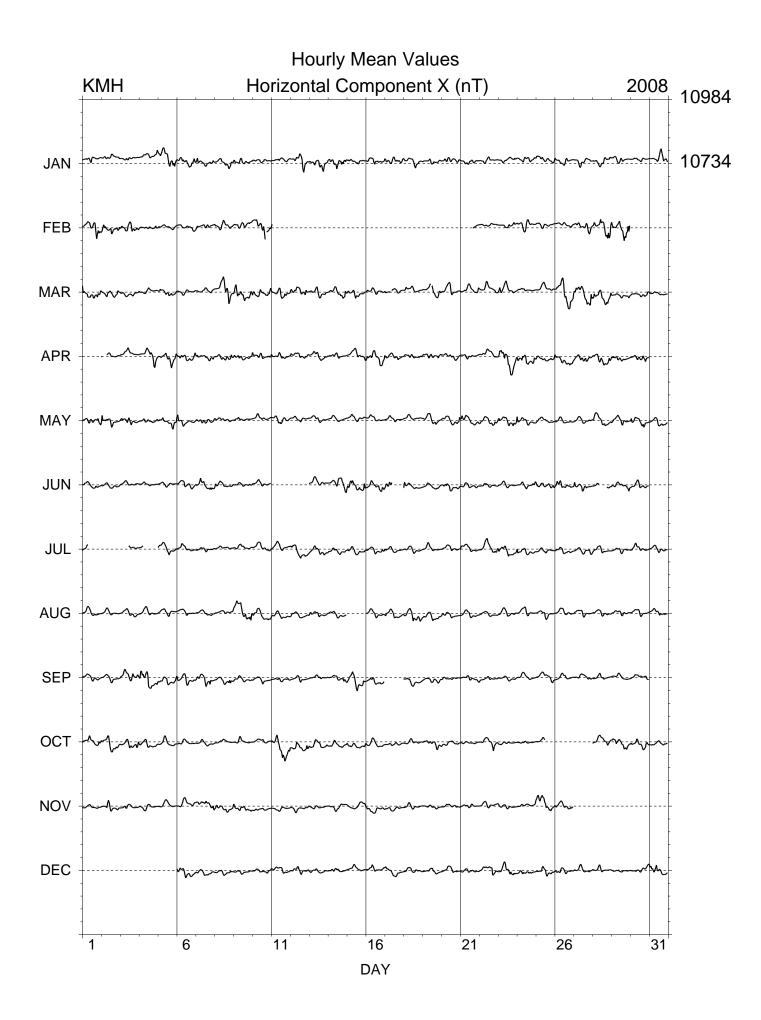


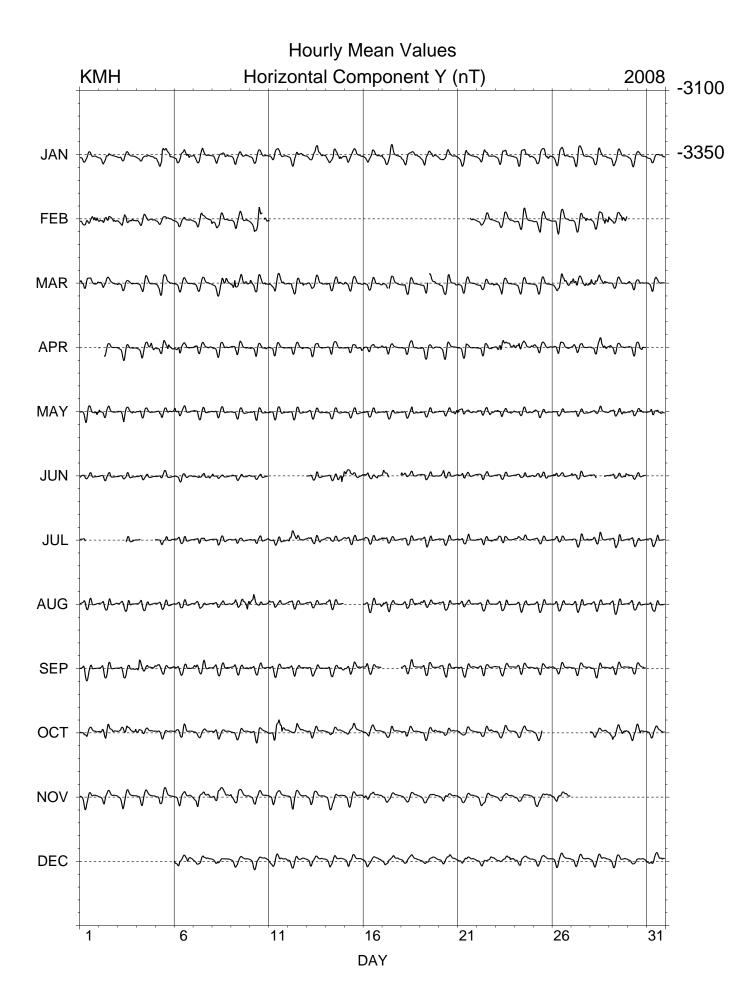


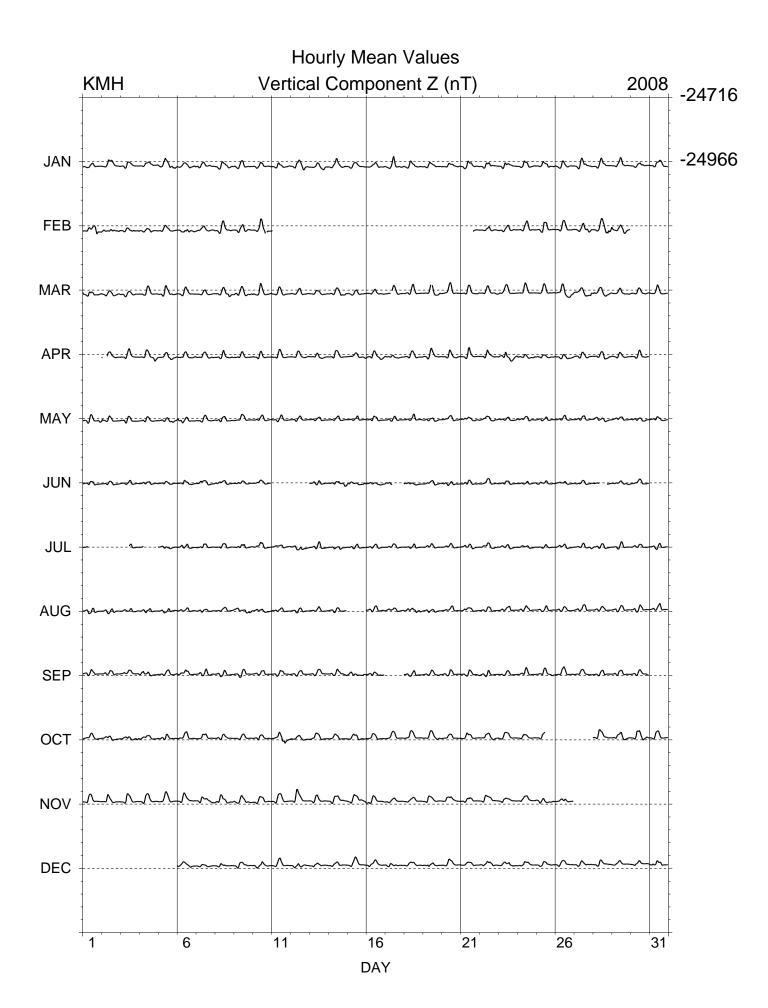


Magnetic Results 2008
Keetmanshoop









Hourly Mean Values 2008 27631 Total Component F (nT) KMH JUN 👆 DEC -

11

16

DAY

21

26

31

KEETMANSHOOP **MEAN MONTHLY VALUES 2008**

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APR -17 20.2 -65 46.8 11236 10725 -3348 -24976 27387 D HDZF MAY -17 20.4 -65 45.6 11244 10733 -3351 -24971 27386 D HDZF JUN -17 20.2 -65 45.5 11243 10732 -3350 -24968 27383 D HDZF JUL -17 19.4 -65 46.0 11238 10729 -3347 -24967 27379 D HDZF AUG -17 19.6 -65 45.7 11239 10729 -3347 -24963 27377 D HDZF SEP -17 20.1 -65 46.3 11233 10723 -3347 -24961 27373 D HDZF OCT -17 19.0 -65 46.3 11232 10723 -3343 -24958 27369 D HDZF NOV -17 19.0 -65 45.1 11240 10731 -3346 -24954 27369 D HDZF DEC -17 18.3 -65 45.1 11240 10731 -3343 -24952 27366 D HDZF	FEB	-17	21.8	-65 45.6	11248	10735	-3357	-24981	27396	D	HDZF
MAY -17 20.4 -65 45.6 11244 10733 -3351 -24971 27386 D HDZF JUN -17 20.2 -65 45.5 11243 10732 -3350 -24968 27383 D HDZF JUL -17 19.4 -65 46.0 11238 10729 -3347 -24967 27379 D HDZF AUG -17 19.6 -65 45.7 11239 10729 -3347 -24963 27377 D HDZF SEP -17 20.1 -65 46.3 11233 10723 -3347 -24961 27373 D HDZF OCT -17 19.0 -65 46.3 11232 10723 -3343 -24958 27369 D HDZF NOV -17 19.0 -65 45.1 11240 10731 -3346 -24954 27369 D HDZF DEC -17 18.3 -65 45.1 11240 10731 -3343 -24952 27366 D HDZF	MAR	-17	20.2	-65 47.0	11235	10724	-3348	-24978	27388	D	HDZF
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JUL -17 19.4 -65 46.0 11238 10729 -3347 -24967 27379 D HDZF AUG -17 19.6 -65 45.7 11239 10729 -3347 -24963 27377 D HDZF SEP -17 20.1 -65 46.3 11233 10723 -3347 -24961 27373 D HDZF OCT -17 19.0 -65 46.3 11232 10723 -3343 -24958 27369 D HDZF DEC -17 18.3 -65 45.1 11240 10731 -3343 -24952 27366 D HDZF	MAY	-17	20.4	-65 45.6	11244	10733	-3351	-24971	27386	D	HDZF
AUG -17 19.6 -65 45.7 11239 10729 -3347 -24963 27377 D HDZF SEP -17 20.1 -65 46.3 11233 10723 -3347 -24961 27373 D HDZF OCT -17 19.0 -65 46.3 11232 10723 -3343 -24958 27369 D HDZF NOV -17 19.0 -65 45.1 11240 10731 -3346 -24954 27369 D HDZF DEC -17 18.3 -65 45.1 11240 10731 -3343 -24952 27366 D HDZF	JUN	-17	20.2	-65 45.5	11243	10732	-3350	-24968	27383	D	HDZF
SEP -17 20.1 -65 46.3 11233 10723 -3347 -24961 27373 D HDZF OCT -17 19.0 -65 46.3 11232 10723 -3343 -24958 27369 D HDZF NOV -17 19.0 -65 45.1 11240 10731 -3346 -24954 27369 D HDZF DEC -17 18.3 -65 45.1 11240 10731 -3343 -24952 27366 D HDZF	JUL	-17		-65 46.0	11238	10729	-3347	-24967	27379	D	HDZF
OCT -17 19.0 -65 46.3 11232 10723 -3343 -24958 27369 D HDZF NOV -17 19.0 -65 45.1 11240 10731 -3346 -24954 27369 D HDZF DEC -17 18.3 -65 45.1 11240 10731 -3343 -24952 27366 D HDZF	AUG	-17						-24963		D	HDZF
NOV -17 19.0 -65 45.1 11240 10731 -3346 -24954 27369 D HDZF DEC -17 18.3 -65 45.1 11240 10731 -3343 -24952 27366 D HDZF		-17	20.1	-65 46.3			-3347	-24961	27373	D	HDZF
DEC -17 18.3 -65 45.1 11240 10731 -3343 -24952 27366 D HDZF	OCT	-17		-65 46.3	11232		-3343	-24958	27369	D	HDZF
		-17	19.0	-65 45.1	_	10731	-3346			D	HDZF
YEAR -17 20.0 -65 45.8 11240 10730 -3349 -24968 27381 D HDZF						10731				D	HDZF
	YEAR	-17	20.0	-65 45.8	11240	10730	-3349	-24968	27381	D	HDZF

*A: All days
*Q: Quiet days
*D: Disturbed days
ELE: Elements recorded

KEETMANSHOOP MEAN ANNUAL VALUES

Date	。D ,	。I ,	H nT	X nT	Y nT	Z nT	F nT	*	ELE
2007.5	-17 23.3	-65 43.4	11273	10758	-3369	-24993	27417	I	DHZ
2008.5	-17 20.1	-65 45.2	11245	10735	-3351	-24966	27381	Α	DHZ

*A: All days *I: Incomplete ELE: Elements recorded