REPORT UAG-86

WORLD DATA CENTER A
for
Solar-Terrestrial Physics
and
WORLD DATA CENTER B2

INTERNATIONAL CATALOG OF GEOMAGNETIC DATA

November 1982

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National Academy of Sciences
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Washington, D.C. 20418 USA

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World Data Centers conduct international exchange of geophysical observations in accordance with the principles set forth by the International Council of Scientific Unions. WDC-A is established in the United States under the auspices of the National Academy of Sciences. Communications regarding data interchange matters in general and World Data Center A as a whole should be addressed to World Data Center A, Coordination Office (see address above). Inquiries and communications concerning data in specific disciplines should be addressed to the appropriate subcenter listed above.

WORLD DATA CENTER A
for
Solar-Terrestrial Physics
and
WORLD DATA CENTER B2

REPORT UAG-86

INTERNATIONAL CATALOG OF GEOMAGNETIC DATA

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November 1982

U.S. DEPARTMENT OF COMMERCE
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PREFACE

World Data Centers conduct international exchange of geophysical observations in accordance with the principles set forth by the International Council of Scientific Unions (ICSU). They were established in 1957 by the International Geophysical Year Committee (CSAGI) as part of the fundamental international planning for the IGY program to collect data from the numerous and widespread IGY observational programs and to make such data readily accessible to interested scientists and scholars for an indefinite period of time. WDC-A was established in the U.S.A.; WDC-B, in the U.S.S.R.; and WDC-C, in Western Europe, Australia, and Japan. This new system for exchanging geophysical data was found to be very effective, and the operations of the World Data Centers were extended by ICSU on a continuing basis to other international programs; the WDC's were under the supervision of the Comite International de Geophysique (CIG) for the period 1960 to 1967 and are now supervised by the ICSU Panel on World Data Centres.

The current plans for continued international exchange of geophysical data through the World Data Centers are set forth in the "Fourth Consolidated Guide to International Data Exchange through the World Data Centres", issued by the ICSU Panel on World Data Centres, June 1979. These plans are broadly similar to those adopted under ICSU auspices for the IGY and IQSY. ICSU-sponsored exchange visits have taken place between the WDC-A (Boulder) and WDC-B (Moscow) working staff for the overall purpose of improving data exchange between these centers. One goal was the creation of common formats for computer inventories and catalog publications. By joint agreement the first discipline for this effort was the collection of geomagnetic data. While this joint effort was developing, WDC-C2 for Geomagnetism (Kyoto) published a computer based catalog of their geomagnetic holdings.. A digital tape of this catalog was shared with WDC-A. After reformatting, this information was added to the joint catalog of holdings at WDC-A and WDC-B2.

Functions and Responsibilities of WDC's

The World Data Centers collect data and publications for the following disciplines: Glaciology; Meteorology; Oceanography; Rockets and Satellites; Solar-Terrestrial Physics disciplines (Solar and Interplanetary Phenomena, Ionospheric Phenomena, Flare Associated Events and Geomagnetic Phenomena, Aurora, Cosmic Rays, Airglow); Solid-Earth Geophysics disciplines (Seismology, Tsunamis, Gravimetry, Earth Tides, Recent Movements of the Earth's Crust, Rotation of the Earth, Magnetic Measurements, Paleomagnetism and Archeomagnetism, Volcanology, Geothermics); and Marine Geology and Geophysics. In planning for the various scientific programs, decisions on data exchange were made by the scientific community through the international scientific unions and committees. In each discipline the specialists themselves determined the nature and form of data exchange, based on their needs as research workers. Thus the type and amount of data in the WDC's differ from discipline to discipline.

The objectives of establishing several World Data Centers for collecting observational data were: (1) to insure against loss of data by the catastrophic destruction of a single center, (2) to meet the geographical convenience of, and provide easy communication for, workers in different parts of the world. Each WDC is responsible for: (1) endeavoring to collect a complete set of data in the field or discipline for which it is responsible; (2) safekeeping of the incoming data; (3) correct copying and reproduction of data, maintaining adequate standards of clarity and durability; (4) supplying copies to other WDC's; (5) preparation of catalogs of all data in its charge; and (6) making data in the WDC's available to the scientific community. Operating expenses for the WDC's are met by the sponsoring national institution in each host country.

World Data Center A

The U.S. National Academy of Sciences has overall responsibility for World Data Center A through the Geophysics Research Board and its Committee on Geophysical Data. WDC-A consists of a Coordination Office at the NAS and discipline centers at scientific institutions in various parts of the United States. The GRB periodically reviews the activities of WDC-A and has conducted several studies on the effectiveness of the WDC system. As a result of these reviews and studies some of the centers have been relocated so that they could more effectively serve the scientific community. The addresses of the WDC-A centers and Coordination Office are given inside the front cover. For some data bases the responsibility is not simply based on discipline but may also reflect whether the data are collected on an experimental basis or synoptic monitoring purposes and the differing responsibilities of the sponsoring host institutions. For example, there are very close connections between WDC-A for Solar-Terrestrial Physics and WDC-A for Rockets and Satellites, which exchange solar-terrestrial geophysical data; if it is more convenient, data or requests may be sent to one WDC-A center through another.

I. Introduction

In this catalog we have attempted to consolidate, for the first time, all the geomagnetic data from standard, rapid-run, and digital measurements known to exist at World Data Center A for Solar Terrestrial Physics, WDC-B2 and WDC-C2 (Geomagnetism). These holdings include data recorded before the IGY when the WDC system was established. Section II of this catalog lists the variety of geomagnetic data and products available from WDC-A for STP.

These geomagnetic data are held in the form of microfilm, magnetic tapes, yearbooks, and bulletins. They are in a variety of formats including magnetograms (normal, storm, and rapid-run), hourly values, 2.5-minute, 1-minute, and 10-second values, and various derived indices for individual observatories and global networks. Data from about 400 observatory locations are referenced in this catalog. Section III, beginning on page 3, lists all observatories with their international 3-letter code, geographic, and geomagnetic coordinates. They are given first in alphabetical order and then sorted according to increasing geomagnetic co-latitude (dipole co-latitude). Often observatories are called by more than one name and where alternate names are known, these also are listed in Section III. Where one observatory has been replaced by another, often after a time of concurrent operation, these pairs of specially related sites are listed here.

Section IV is a map showing the location of all observatories listed in this catalog regardless of whether a station is either or open or closed. Examples of geomagnetic data are shown in Section V to illustrate the variety available.

The main body of the catalog is Section VI, beginning on page 41. This detailed listing for each observatory gives the years and months for which the WDCs retain digital data, magnetograms, or K indices for that site. This information is also available on a standard magnetic tape in a common format adopted jointly by WDC-A for STP and WDC-B2.

Section VII lists stations, codes, and dates for which there are holdings of high resolution geomagnetic digital data. These data are relatively new at the WDCs, most having come into existence as part of the program of data acquisition for the International Magnetospheric Study (IMS), 1976-1979. In general, where data exist with high time resolution there are also corresponding data averaged over less frequent sample times, e.g. 10-sec data also exist as 1-min and hourly averages. Often summary values are plotted by computer on microfilm to provide a convenient means for visual examination of the high resolution data.

Indices of geomagnetic activity may characterize the range and frequency of field variations at a single recording site or as measured by a physically significant array of observatories. Section VIII gives details about the availability of the principal derived magnetic activity indices other than the local K index for each observatory which is given in Section VI, Table 5.

These geomagnetic data are available to users without restriction. Some WDCs must either recover their cost of data preparation or of reproduction. Inquiries and requests for data should be addressed to the nearest appropriate World Data Center. Their addresses are the following:

World Data Center-A for
Solar-Terrestrial Physics
NOAA/NGDC D-63
325 Broadway
Boulder, Colorado 80303
USA

World Data Center B2
Soviet Geophysical Committee
Academy of Sciences of the USSR
Molodezhnaya 3
Moscow 117 296
USSR

World Data Center C2
for Geomagnetism
Facility of Science
Kyoto University
Kyoto 606
JAPAN

While data copies are available by mail, working visits to the Data Centers are strongly encouraged. Such visits enable the user to browse through the archives and to have access to all the facilities of the Centers, and it is usually possible to minimize copying costs. Copying machines, microfilm readers and reader-printers, and calculators are available. Special arrangements may be made for the use of computers and other equipment. Arrangements for visits should be made in advance with the proposed World Data Center.

Data received by WDC-A centers are made available to the scientific community in a variety of ways: (1) in published reports containing data and results of experiments; (2) in digital form on magnetic tapes or disks; and (3) in tables, maps and analaog records on either film or paper. WDC-A publications are exchanged with other Centers and data suppliers and are available on a subscription basis to anyone. Observations in other formats are available upon request either in exchange for data of a comparable kind and quantity or for the cost of accessing and reproducing the measurements.

World Data Center B2

The Academy of Sciences of the U.S.S.R. has overall responsibility for World Data Center B through the Soviet Geophysical Committee. WDC-B consists of two discipline centers: WDC-B1 (Glaciology, Meteorology and Oceanography) and WDC-B2 (Solar-Terrestrial Physics and Solid-Earth Geophysics). The addresses of the WDC-B centers coincide and are given on page 1. The Soviet Geophysical Committee periodically reviews the activities of WDC-B and has conducted several studies on the effectiveness of the WDC system.

Data received by WDC-B are made available to the scientific community in the same ways as do the WDC-A centers--for the cost of accessing and reproducing the observations.

Catalog of Data

This catalog covers the data of standard, rapid run and digital measurements, subdiscipline D.1 in the ICSU Fourth Consolidated Guide to International Data Exchange through the World Data Centres, June 1979.

All such data that have been received associated with the ground-based monitoring of geomagnetic phenomena by standard and rapid-run measurements by WDC-A, WDC-B2 and WDC-C2 in both analog and digital form are listed here. This publication supersedes all previous catalogs of these data published by WDC-A and WDC-B.

Acknowledgments

We are grateful to H. Maeda and the WDC-C2 staff for providing us with the WDC-C2 geomagnetic inventory. We thank, too, Betty Weddle, Gary Vanderlinden and Ron Buhmann at WDC-A and N.A. Ulyanova and G.F. Myaditscheva at WDC-B for their valuable assistance in revising this catalog.

II. Geomagnetic Data and Products Available from WDC-A for STP and WDC-B2

Please consult WDC-A and WDC-B for current prices. The most recent list for WDC-A was published in October 1981 in flier 1981(ST-C) "Solar-Terrestrial Physics Data Services".

35-mm film copies of magnetograms in microfilm archive --- by station-month or station-year.

Full-size (8 1/2" x 24") electrostatic copy of magnetogram --- by station-day or station-month(*).

Half-size electrostatic copy of magnetograms --- by station-month(*).

Electrostatic copies of data sheets:
- Individual station indices (K, Q, etc.) --- by station-month;
- Regional or global indices (Kp, AE, Dst, etc.) --- by month;
- Magnetic hourly values (per component) --- by station-month.

Digital hourly values, 2.5-minute or 1.0-minute intervals on magnetic tape
- --- by copy from archives
- --- by digitization of analog records by special arrangement (*)

Digital magnetograms from original recordings (*):
- Observatory data copied from archive tapes;
- IMS 1-min data --- about 5 network weeks on 1600 BPI coded magnetic tape;
- IMS 10-sec data--- about 10 network days on 1600 BPI binary magnetic tape.

Common-Scale Stacked Magnetograms (*):
- Archived digital data replotted from 1-min or 2.5-min values;
- IMS North American magnetometer network data available as 5-min average plots on microfilm with about 2 1/2 network-months (26 stations) per 100 ft. roll.

Note: (*) - data and products available from WDC-A only.

III. Lists of Observatories, Codes and Coordinates

Four separate lists of geomagnetic observatories are presented in this section as describved below. Tables 1 and 2 are the basic lists giving all observatories ordered alphabetically and by geomagnetic co-latitude, respectively. Lists 3 and 4 give information about alternate observatory names and replacement of one observatory by another.

The listed observatories are those for which data are held in at least one of the WDCs. Their names, international 3-letter codes, and geographic coordinates are consistent with those given in the IAGA News of December 1979. We have corrected or updated entries where appropriate. Corrections to the information published here should be communicated to any appropriate World Data Center. Proposed new entries or other changes to this list should be approved by the appropriate IAGA Working Group or their designated agent.

Three different models were used to calculate the magnetic coordinates from the geographic coordinates for each observatory: dipole, Gustafsson, and Tsyganenko. The geomagnetic dipole coordinates, co-latitude 0' and east longitude 0', were defined by Schmidt (1895) in "Mitteilungen uber eine neue Berechnung des Erdmagnetischen Potentials". For these dipole coordinate calculations, geographic coordinates used for the North Geomagnetic Pole were 11.32° co-latitude and 289.59° east longitude.

Gustafsson's corrected geomagnetic coordinates were computed according to the method described in "A Revised Corrected Geomagnetic Coordinate System," Ark. Geophysics, 5, 595-617, and also given in Kiruna Geophysical Observatory Report no. 694 (April 1969). These coordinates are given for all observatories with geographic latitudes greater than 2° to 16°, depending on longitude. They are not defined for sites within a latitude band of varying width near the geomagnetic equator, and observatories in this region have no entry in this column in Tables 1 and 2.

Tsyganenko's corrected geomagnetic coordinates were computed according to the method described in Tsyganenko, N.A., "Subroutines and Tables for the Geomagnetic Field Computations," Materials of the WDC-B2, Moscow, 1979, and in "Numerical Models of Quiet and Disturbed Geomagnetic Field in the Cislunar Part of the Magnetosphere," Annales de Geophysique, 37, 381-394, 1981.

These coordinates are not given for all observatories within +30° to -30° geographic latitudes and they have no entry in this column in Tables 1 and 2.

Table 1. Alphabetical listing of all observatories for which data are held at WDC-A for STP, WDC-B2 or WDC-C2 (Geomagnetism).

Table 2. Observatory listing sorted by increasing dipole geomagnetic co-latitude.

Table 3. Alphabetically Sorted Alternate Name List. Since some observatories are more commonly known by a label other than the one used in this catalog, we tabulate here their alternate name or names.

Table 4. Alphabetically Sorted List of Replacement Observatories. Here we tabulate stations that began near the site of a closed facility with perhaps a period of concurrent operation. We consider such sites as "replacement" observatories.

TABLE I
(SEQUENCED BY OBSERVATORY NAME)

GEOMAGNETIC OBSERVATORY COORDINATES

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
ABINGER	ABN	51.18	-0.38	38.82	359.62	1980.0	36.29	84.47	1980.0	40.25	79.52	1980.0	42.12	79.42
ABISKO	ABK	68.35	18.82	21.65	18.82	1980.0	24.17	115.70	1980.0	24.56	103.55	1980.0	25.07	103.63
ADAK	ADA	51.30	-176.65	38.70	183.35	1980.0	43.04	241.60	1980.0	43.53	244.04	1980.0	43.83	244.97
ADDIS ABABA	AAE	9.03	38.77	80.97	38.77	1980.0	84.82	110.51	1980.0			1980.0		
AGINCOURT	AGN	43.78	-79.27	46.22	280.73	1980.0	35.07	348.84	1980.0	33.11	350.48	1980.0	34.15	353.27
ALERT	ALE	82.50	-62.50	7.50	297.50	1980.0	4.02	165.17	1980.0	3.23	124.34	1980.0	3.25	119.85
ALIBAG	ABG	18.38	72.52	71.62	72.52	1980.0	80.76	144.58	1980.0	78.17	142.72	1980.0		
ALMA ATA	AAA	43.25	76.92	46.75	76.92	1980.0	56.53	151.88	1980.0	50.79	146.92	1980.0	52.19	148.67
ALMERIA	ALM	36.85	-2.47	53.15	357.53	1980.0	49.68	76.58	1980.0	56.44	73.82	1980.0	60.63	73.87
AMATSIA	AMT	31.55	34.92	58.45	34.92	1980.0	62.04	111.49	1980.0	64.82	105.28	1980.0	65.87	106.32
AMBERLEY	AML	-43.15	172.72	133.15	172.72	1980.0	137.34	253.80	1980.0	140.06	254.12	1980.0	139.91	255.83
AMDERMA	AMD	69.47	61.42	20.53	61.42	1980.0	29.27	147.69	1980.0	25.18	136.89	1980.0	25.70	138.09
ANCHORAGE	AMU	61.20	-149.90	28.80	210.10	1980.0	28.78	259.73	1980.0	29.18	260.70	1980.0	29.36	261.97
ANDREWS AFB	AWS	38.82	-76.87	51.18	283.13	1980.0	40.06	352.24	1980.0	38.04	353.62	1980.0	39.11	356.34
ANNAMALAINAGAR	ANN	11.22	79.42	78.78	79.42	1980.0	88.61	150.45	1980.0			1980.0		
ANTIPOLO	ANO	14.60	121.17	75.40	121.17	1980.0	86.50	191.22	1980.0			1980.0		
APIA	API	-13.80	-171.78	103.80	188.22	1980.0	105.75	261.58	1980.0	105.36	260.42	1980.0		
ARCTIC ICE FLO	AIF	83.53	-166.95	6.47	193.05	1980.0	13.64	208.33	1980.0	10.76	211.64	1980.0	10.76	212.14
ARCTIC VILLAGE	AVI	68.13	-145.57	21.87	214.43	1980.0	21.77	256.17	1980.0	21.58	258.32	1980.0	21.61	259.79
ARGENTINE ISLAND	AIA	-65.20	-64.30	155.20	295.70	1980.0	143.93	4.35	1980.0	139.60	8.52	1980.0	139.18	8.89
ARKHANGELSK	ARK	64.60	40.50	25.40	40.50	1980.0	31.16	129.25	1980.0	29.45	117.40	1980.0	29.94	118.21
ARTI	ARS	56.43	58.57	33.57	58.57	1980.0	41.52	139.57	1980.0	37.61	130.10	1980.0	38.42	131.67
ASHKHABAD	ASH	37.95	58.10	52.05	58.10	1980.0	59.56	134.30	1980.0	56.59	128.10	1980.0	57.49	129.81
ASO	ASO	32.88	131.02	57.12	131.02	1980.0	67.74	199.36	1980.0	62.80	201.02	1980.0	64.38	201.99
AVERROES	AVE	33.30	-7.42	56.70	352.58	1980.0	52.20	70.45	1980.0	59.76	69.12	1980.0	65.39	69.27
BACK	BKC	57.68	-94.23	32.32	265.77	1980.0	22.39	325.46	1980.0	20.81	326.17	1980.0	21.26	329.03
BAGUIO	BAG	16.42	120.60	73.58	120.60	1980.0	84.70	190.60	1980.0	79.53	189.89	1980.0		
BAKER LAKE	BLC	64.33	-96.03	25.67	263.97	1980.0	16.17	317.73	1980.0	14.85	319.99	1980.0	15.20	323.25
BALDWIN	BAL	38.78	-95.17	51.22	264.83	1980.0	41.14	330.25	1980.0	39.91	328.37	1980.0	40.40	330.69
BANGKOK	BKK	13.72	100.57	76.28	100.57	1980.0	87.46	171.23	1980.0			1980.0		
BANGUI	BNG	4.43	18.57	85.57	18.57	1980.0	85.46	89.87	1980.0	98.12	88.47	1980.0		
BARROW	BRW	71.30	-156.75	18.70	203.25	1980.0	21.12	242.60	1980.0	20.42	246.63	1980.0	20.49	247.89
BARTER ISLAND	BTI	70.13	-143.67	19.87	216.33	1980.0	19.71	254.77	1980.0	19.31	257.43	1980.0	19.31	258.93
BATAVIA	BTV	-6.18	106.83	96.18	106.83	1980.0	107.49	177.12	1980.0	105.88	176.72	1980.0		
BEAR ISLAND	BJN	74.52	19.02	15.48	19.02	1980.0	19.00	124.95	1980.0	18.65	110.52	1980.0	19.00	110.44
BEIJING	BJI	40.03	116.17	49.97	116.17	1980.0	61.23	185.75	1980.0	54.64	186.67	1980.0	56.41	187.74
BELIY ISLAND	BEY	73.30	70.00	16.70	70.00	1980.0	26.40	155.68	1980.0	21.83	145.92	1980.0	22.30	147.09
BELOIT	BLT	39.48	-98.13	50.52	261.87	1980.0	40.75	326.63	1980.0	39.77	324.53	1980.0	40.13	326.74
BELSK	BEL	51.83	20.80	38.17	20.80	1980.0	39.80	105.13	1980.0	41.73	96.51	1980.0	42.76	96.82
BIG DELTA	BDE	64.00	-145.73	26.00	214.27	1980.0	25.43	260.96	1980.0	25.63	262.03	1980.0	25.71	263.44

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
BINZA	BIN	-4.38	15.27	94.38	15.27	1980.0	93.45	84.91	1980.0			1980.0		
BOCHUM	BOC	51.48	7.23	38.52	7.23	1980.0	37.50	92.15	1980.0	40.89	85.60	1980.0	42.46	85.57
BODO	BOD	69.30	14.42	20.70	14.42	1980.0	22.56	113.41	1980.0	23.24	101.26	1980.0	23.76	101.22
BOROK	BOX	58.03	38.97	31.97	38.97	1980.0	37.12	124.15	1980.0	35.95	113.45	1980.0	36.56	114.33
BOSSEKOP	BOP	69.97	23.25	20.03	23.25	1980.0	23.52	121.06	1980.0	23.29	108.11	1980.0	23.75	108.31
BOULDER	BOU	40.13	-105.23	49.87	254.77	1980.0	40.96	318.24	1980.0	40.51	315.70	1980.0	40.74	317.71
BRISBANE	BRS	-27.53	152.92	117.53	152.92	1980.0	125.44	228.32	1980.0	126.56	226.68	1980.0		
BUDAKESZI	BUZ	47.52	18.90	42.48	18.90	1980.0	43.55	101.45	1980.0	46.35	93.78	1980.0	47.64	94.00
BUDKOV	BDV	49.07	14.02	40.93	14.02	1980.0	41.12	97.51	1980.0	44.23	90.24	1980.0	45.68	90.32
BURLINGTON	BRT	39.28	-102.18	50.72	257.82	1980.0	41.41	321.97	1980.0	40.79	319.58	1980.0	41.05	321.64
BYRD STATION	BYR	-80.00	-119.50	170.00	240.50	1980.0	160.62	336.71	1980.0	158.34	352.47	1980.0	157.88	353.70
CAMBRIDGE BAY	CBB	69.10	-105.00	20.90	255.00	1980.0	13.18	297.31	1980.0	12.16	299.70	1980.0	12.23	303.03
CAMPBELL ISLAND	CAI	-52.50	169.20	142.50	169.20	1980.0	146.97	254.44	1980.0	150.46	256.09	1980.0	150.29	258.05
CANARIAS	TEN	28.48	-16.28	61.52	343.72	1980.0	55.34	59.99	1980.0	63.26	60.95	1980.0		
CANBERRA	CAN	-35.30	149.00	125.30	149.00	1980.0	133.66	225.74	1980.0	135.65	223.95	1980.0	135.73	225.56
CAPE CHELYUSKIN	CCS	77.72	104.28	12.28	104.28	1980.0	23.57	177.18	1980.0	18.42	174.19	1980.0	18.87	174.99
CAPE GOOD HOPE	CGH	-33.93	18.48	123.93	18.48	1980.0	122.97	81.41	1980.0	131.04	79.12	1980.0	131.71	80.23
CAPE HALLETT	HLL	-72.32	170.22	162.32	170.22	1980.0	164.47	278.80	1980.0	167.70	296.83	1980.0	167.42	298.79
CAPE KAMENNIY	CKA	68.50	73.60	21.50	73.60	1980.0	31.34	155.54	1980.0	26.15	146.93	1980.0	26.82	148.26
CAPE PARRY	CPY	70.17	-124.72	19.83	235.28	1980.0	16.00	271.96	1980.0	15.39	273.58	1980.0	15.30	275.75
CAPE SCHMIDT	CPS	68.92	-179.48	21.08	180.52	1980.0	26.89	228.72	1980.0	25.68	234.05	1980.0	25.91	234.94
CAPE TOWN	CTO	-33.95	18.47	123.95	18.47	1980.0	122.99	81.39	1980.0	131.05	79.10	1980.0	131.73	80.21
CAPE WELLEN	CWE	66.17	-169.83	23.83	190.17	1980.0	27.87	238.48	1980.0	27.50	242.59	1980.0	27.67	243.62
CAPE ZHELANIA	CZA	77.00	68.60	13.00	68.60	1980.0	22.77	157.59	1980.0	18.52	147.39	1980.0	18.92	148.28
CAPRI	CPI	40.55	14.22	49.45	14.22	1980.0	49.35	94.38	1980.0	53.98	88.26	1980.0	56.12	88.42
CARROLLTON	CAX	39.37	-93.47	50.63	266.53	1980.0	40.39	332.14	1980.0	39.02	330.53	1980.0	39.54	332.90
CASPER	CSR	42.85	-106.30	47.15	253.70	1980.0	38.42	316.25	1980.0	37.89	313.74	1980.0	38.11	315.76
CASTELLACCIO	CAO	44.43	8.93	45.57	8.93	1980.0	44.57	90.64	1980.0	49.00	84.83	1980.0	51.11	84.84
CASTLE ROCK	CRC	37.23	-122.13	52.77	237.87	1980.0	46.36	300.28	1980.0	47.23	298.10	1980.0	47.23	299.57
CEBU	CCP	10.30	123.90	79.70	123.90	1980.0	90.68	194.08	1980.0			1980.0		
CHA PA	CPA	22.35	103.83	67.65	103.83	1980.0	78.92	174.57	1980.0	73.74	173.45	1980.0		
CHAMBON-LA-FORET	CLF	48.02	2.27	41.98	2.27	1980.0	39.83	85.58	1980.0	44.10	80.52	1980.0	46.21	80.46
CHARACATO	ARE	-16.47	-71.48	106.47	288.52	1980.0	95.15	358.97	1980.0	93.25	358.32	1980.0		
CHARCOT	CTX	-69.38	139.02	159.38	139.02	1980.0	167.94	235.93	1980.0	173.38	238.47	1980.0	173.41	242.31
CHATONNAYE	CTE	46.67	6.83	43.33	6.83	1980.0	42.01	89.50	1980.0	46.22	83.77	1980.0	48.22	83.72
CHELTENHAM	CLH	38.70	-76.80	51.30	283.20	1980.0	40.06	352.24	1980.0	38.04	353.62	1980.0	39.23	356.43
CHESTERFIELD INL	CFI	63.33	-90.72	26.67	269.28	1980.0	16.49	326.72	1980.0	15.12	330.07	1980.0	15.60	333.30
CHICHIJIMA	CBI	27.10	142.20	62.90	142.20	1980.0	72.57	210.19	1980.0	69.36	211.32	1980.0		
CHICLAYO	CCL	-6.80	-79.80	96.80	280.20	1980.0	85.63	350.65	1980.0			1980.0		
CHIMBOTE	CMB	-9.10	-78.60	99.10	281.40	1980.0	87.89	351.91	1980.0			1980.0		

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
CHRISTCHURCH	CHR	-43.53	172.62	133.53	172.62	1980.0	137.72	253.84	1980.0	140.48	254.20	1980.0	140.33	255.92
CLIMAX	CLI	39.37	-106.18	50.63	253.82	1980.0	41.83	317.35	1980.0	41.52	314.80	1980.0	41.72	316.74
COIMBRA	COI	40.22	-8.42	49.78	351.58	1980.0	45.29	71.55	1980.0	51.36	69.82	1980.0	55.11	69.90
COLLEGE	CMO	64.87	-147.83	25.13	212.17	1980.0	25.06	258.14	1980.0	25.16	259.65	1980.0	25.28	261.02
COLLMBERG	CLL	51.32	13.00	38.68	13.00	1980.0	38.78	97.61	1980.0	41.65	90.12	1980.0	43.02	90.18
COPENHAGEN	COP	55.68	12.58	34.32	12.58	1980.0	34.58	99.60	1980.0	36.91	91.38	1980.0	38.04	91.45
COSTA RICA	SNJ	9.92	-83.97	80.08	276.03	1980.0	69.09	345.69	1980.0	68.68	343.66	1980.0		
CUZCO	CUS	-13.53	-71.97	103.53	288.03	1980.0	92.21	358.48	1980.0			1980.0		
DALLAS	DAL	32.98	-96.75	57.02	263.25	1980.0	47.05	329.44	1980.0	46.42	327.12	1980.0	46.74	329.26
DAR ES SALAAM	DRS	-6.78	39.22	96.78	39.22	1980.0	100.44	108.00	1980.0	109.11	108.61	1980.0		
DAVAO	DAV	7.08	125.58	82.92	125.58	1980.0	93.81	195.90	1980.0			1980.0		
DE BILT	DBN	52.10	5.18	37.90	5.18	1980.0	36.51	90.48	1980.0	40.01	84.18	1980.0	41.57	84.15
DIXON ISLAND	DIK	73.55	80.57	16.45	80.57	1980.0	26.90	162.32	1980.0	21.69	154.69	1980.0	22.27	155.85
DOMBAS	DOB	62.07	9.12	27.93	9.12	1980.0	27.99	101.05	1980.0	29.92	91.89	1980.0	30.80	91.87
DOURBES	DOU	50.10	4.60	39.90	4.60	1980.0	38.30	88.88	1980.0	42.13	83.02	1980.0	43.89	82.99
DUMONT DURVILLE	DRV	-66.67	140.02	156.67	140.02	1980.0	165.33	232.38	1980.0	170.57	231.98	1980.0	170.62	235.04
EASTER ISLAND	EIC	-27.17	-109.42	117.17	250.58	1980.0	108.18	323.88	1980.0	110.85	324.71	1980.0		
EBRO	EBR	40.82	0.50	49.18	0.50	1980.0	46.41	80.91	1980.0	52.19	77.11	1980.0	55.33	77.10
EIELSON AFB	ENB	64.67	-147.08	25.33	212.92	1980.0	25.09	259.03	1980.0	25.22	260.41	1980.0	25.32	261.79
EIGHTS	EGS	-75.23	-77.17	165.23	282.83	1980.0	153.96	356.08	1980.0	150.00	4.98	1980.0	149.55	5.73
ELIZABETHVILLE	ELI	-11.63	27.42	101.63	27.42	1980.0	102.94	95.37	1980.0	114.66	95.62	1980.0		
ENKOPING	ENK	59.60	17.02	30.40	17.02	1980.0	31.77	106.22	1980.0	33.21	96.60	1980.0	34.05	96.73
ESKDALEMUIR	ESK	55.32	-3.20	34.68	356.80	1980.0	31.83	84.05	1980.0	35.38	79.00	1980.0	36.95	78.86
ESKIMO POINT	EKP	61.10	-94.07	28.90	265.93	1980.0	19.03	323.51	1980.0	17.55	325.15	1980.0	17.99	328.25
ESPANOLA	EPN	35.82	-106.07	54.18	253.93	1980.0	45.32	318.33	1980.0	45.30	315.74	1980.0	45.45	317.65
ETTAYAPURAM	ETT	9.00	78.00	81.00	78.00	1980.0	90.67	148.84	1980.0			1980.0		
EUSEBIO	EUS	-3.87	-38.42	93.87	321.58	1980.0	84.27	32.09	1980.0			1980.0		
EYREWELL	EYR	-43.42	172.35	133.42	172.35	1980.0	137.67	253.52	1980.0	140.42	253.84	1980.0	140.27	255.56
FANNING	FAN	3.90	-159.38	86.10	200.62	1980.0	85.97	270.24	1980.0			1980.0		
FORT CHURCHILL	FCC	58.80	-94.10	31.20	265.90	1980.0	21.28	325.00	1980.0	19.73	326.01	1980.0	20.17	328.92
FORT RAE	FRA	62.80	-116.10	27.20	243.90	1980.0	20.81	292.95	1980.0	20.10	291.98	1980.0	20.24	294.28
FORT SIMPSON	FSP	61.75	-121.23	28.25	238.77	1980.0	22.71	288.15	1980.0	22.31	286.97	1980.0	22.40	288.99
FORT SMITH	FSM	58.00	-114.00	32.00	246.00	1980.0	24.92	299.87	1980.0	24.18	298.06	1980.0	24.40	300.26
FORT YUKON	FYU	66.57	-145.30	23.43	214.70	1980.0	23.07	258.45	1980.0	23.02	260.10	1980.0	23.09	261.57
FREDERICKSBURG	FRD	38.20	-77.37	51.80	282.63	1980.0	40.58	351.58	1980.0	38.55	352.76	1980.0	39.71	355.56
FREETOWN	FTN	8.47	-13.22	81.53	346.78	1980.0	75.54	59.15	1980.0	87.22	59.71	1980.0		
FUQUENE	FUQ	5.47	-73.73	84.53	286.27	1980.0	73.23	356.55	1980.0	71.52	355.35	1980.0		
FURSTENFELDBRUCK	FUR	48.17	11.28	41.83	11.28	1980.0	41.45	94.48	1980.0	45.01	87.78	1980.0	46.63	87.79
GENOVA	GEN	44.55	8.95	45.45	8.95	1980.0	44.46	90.71	1980.0	48.86	84.88	1980.0	50.96	84.89
GILLAM	GIM	56.85	-94.42	33.15	265.58	1980.0	23.22	325.64	1980.0	21.62	326.13	1980.0	22.08	328.95

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GJOAHAVN	GJO	68.63	-95.92	21.37	264.08	1980.0	12.13	311.67	1980.0	11.01	316.22	1980.0	11.27	319.79
GLENLEA	GLL	49.63	-97.10	40.37	262.90	1980.0	30.61	325.16	1980.0	29.11	324.04	1980.0	29.56	326.50
GNANGARA	GNA	-31.78	115.95	121.78	115.95	1980.0	133.02	187.40	1980.0	134.19	184.84	1980.0	134.33	185.97
GODHAVN	GDH	69.23	-53.52	20.77	306.48	1980.0	10.45	34.63	1980.0	12.38	41.58	1980.0	13.18	42.15
GONZALES VIDELA	GVD	-64.82	-62.85	154.82	297.15	1980.0	143.57	5.41	1980.0	139.22	9.25	1980.0	138.82	9.59
GOTTINGEN	GTT	51.53	9.97	38.47	9.97	1980.0	37.99	94.82	1980.0	41.11	87.81	1980.0	42.60	87.79
GREAT WHALE R.	GWC	55.27	-77.78	34.73	282.22	1980.0	23.54	349.46	1980.0	22.04	353.76	1980.0	22.98	356.61
GREENWICH	GRW	51.48	0.00	38.52	0.00	1980.0	36.08	85.02	1980.0	39.97	79.92	1980.0	41.80	79.83
GROCKA	GCK	44.63	20.77	45.37	20.77	1980.0	46.69	102.08	1980.0	49.64	94.60	1980.0	51.05	94.93
GUAM	GUA	13.58	144.87	76.42	144.87	1980.0	85.73	214.26	1980.0			1980.0		
GUANGZHOU	GZH	23.08	113.33	66.92	113.33	1980.0	11.79	183.52	1980.0	17.50	182.80	1980.0		
HACHIJO	HJJ	33.13	139.80	56.87	139.80	1980.0	66.81	207.29	1980.0	63.16	209.37	1980.0	64.42	210.27
HALLEY BAY	HBA	-75.52	-26.60	165.52	333.40	1980.0	156.06	25.25	1980.0	151.19	27.70	1980.0	150.96	28.26
HARTLAND	HAD	50.98	-4.48	39.02	355.52	1980.0	35.69	80.20	1980.0	39.85	76.25	1980.0	41.87	76.13
HATIZYO	HTY	33.07	139.83	56.93	139.83	1980.0	66.86	207.32	1980.0	63.22	209.39	1980.0	64.48	210.30
HAVANA	HVN	22.97	-82.15	67.03	277.85	1980.0	55.97	346.94	1980.0	54.53	345.48	1980.0		
HEALY	HEA	63.85	-148.97	26.15	211.03	1980.0	26.19	258.17	1980.0	26.36	259.61	1980.0	26.52	260.89
HEARD ISLAND	HII	-53.03	73.37	143.03	73.37	1980.0	151.48	131.91	1980.0	151.77	121.26	1980.0	152.17	121.12
HEISS ISLAND	HIS	80.62	58.05	9.38	58.05	1980.0	18.64	156.47	1980.0	15.19	144.47	1980.0	15.46	145.32
HEL	HLP	54.60	18.82	35.40	18.82	1980.0	36.79	104.74	1980.0	38.59	95.90	1980.0	39.60	96.10
HELWAN	HLW	29.87	31.33	60.13	31.33	1980.0	63.02	107.69	1980.0	66.91	101.81	1980.0		
HERMANUS	HER	-34.42	19.23	124.42	19.23	1980.0	123.59	81.99	1980.0	131.46	79.71	1980.0	132.12	80.80
HOLLANDIA	HNA	-2.57	140.52	92.57	140.52	1980.0	102.25	211.70	1980.0	99.92	210.06	1980.0		
HONG KONG	HKC	22.20	114.20	67.80	114.20	1980.0	79.09	184.35	1980.0	73.50	183.70	1980.0		
HONOLULU	HON	21.32	-158.00	68.68	202.00	1980.0	68.64	267.97	1980.0	68.27	267.56	1980.0		
HUANCAYO	HUA	-12.05	-75.33	102.05	284.67	1980.0	90.77	355.19	1980.0			1980.0		
HURBANOVO	HRB	47.87	18.18	42.13	18.18	1980.0	43.08	100.92	1980.0	45.90	93.28	1980.0	47.22	93.47
HYDERABAD	HYB	17.42	78.55	72.58	78.55	1980.0	82.35	150.24	1980.0	79.51	148.75	1980.0		
IBADAN	IBD	7.43	3.90	82.57	3.90	1980.0	79.66	76.03	1980.0	93.03	74.90	1980.0		
INUVIK	INK	68.25	-133.30	21.75	226.70	1980.0	19.29	267.10	1980.0	18.90	268.30	1980.0	18.96	270.09
IRKUTSK	IRT	52.27	104.27	37.73	104.27	1980.0	49.01	175.69	1980.0	41.72	174.97	1980.0	43.33	176.18
ISLAND LAKE	ISL	53.88	-94.68	36.12	265.32	1980.0	26.16	326.66	1980.0	24.48	326.53	1980.0	25.01	329.25
ISTANBUL-KANDILL	ISK	41.07	29.07	48.93	29.07	1980.0	51.70	108.63	1980.0	53.91	101.04	1980.0	55.04	101.72
IVALO	IVA	68.60	27.48	21.40	27.48	1980.0	25.43	122.68	1980.0	24.95	110.02	1980.0	25.38	110.34
IVIGTUT	IVI	61.20	-48.15	28.80	311.85	1980.0	18.78	34.54	1980.0	20.55	40.64	1980.0	21.89	41.76
JAIPUR	JAI	26.92	75.78	63.08	75.78	1980.0	72.63	148.68	1980.0	68.56	145.98	1980.0		
JARVIS ISLAND	JRV	-0.38	-160.03	90.38	199.97	1980.0	90.30	270.45	1980.0			1980.0		
JOHNSON POINT	JOP	72,47	-118.30	17.53	241.70	1980.0	12.93	272.79	1980.0	12.05	275.74	1980.0	11.96	278.24
JULIANEHAAB	JUL	60.72	-46.03	29.28	313.97	1980.0	19.49	37.24	1980.0	21.44	42.91	1980.0	22.83	43.90
KAKIOKA	KAK	36.23	140.18	53.77	140.18	1980.0	63.69	207.25	1980.0	60.08	209.88	1980.0	61.26	210.71

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KALININGRAD	KNG	54.70	20.62	35.30	20.62	1980.0	37.04	106.43	1980.0	38.61	97.37	1980.0	39.57	97.62
KANDALAKSHA	KND	67.13	32.43	22.87	32.43	1980.0	27.56	125.02	1980.0	26.64	112.61	1980.0	27.10	113.12
KANOYA	KNY	31.42	130.88	58.58	130.88	1980.0	69.20	199.36	1980.0	64.27	200.79	1980.0	65.88	201.78
KANOZAN	KNZ	35.25	139.97	54.75	139.97	1980.0	64.68	207.19	1980.0	61.05	209.63	1980.0	62.26	210.49
KAP TOBIN	KTG	70.42	-121.97	19.58	238.03	1980.0	15.26	274.22	1980.0	14.57	275.92	1980.0	14.49	278.24
KARAGANDA	KGD	49.82	73.08	40.18	73.08	1980.0	49.66	149.76	1980.0	44.02	143.27	1980.0	45.27	145.02
KARAVIA	KVA	-11.63	27.42	101.63	27.42	1980.0	102.94	95.37	1980.0	114.66	95.62	1980.0		
KAZAN	KZN	55.83	48.85	34.17	48.85	1980.0	40.76	131.37	1980.0	38.27	121.28	1980.0	38.95	122.56
KHABAROVSK	KHB	48.48	135.07	41.52	135.07	1980.0	51.92	201.24	1980.0	47.30	205.44	1980.0	48.50	206.07
KHARASAVEY	KHS	71.13	66.83	18.87	66.83	1980.0	28.21	152.32	1980.0	23.72	142.22	1980.0	24.25	143.42
KIEV	KIV	50.72	30.30	39.28	30.30	1980.0	42.62	113.25	1980.0	43.35	104.07	1980.0	44.16	104.70
KIRUNA	KIR	67.83	20.42	22.17	20.42	1980.0	24.91	116.38	1980.0	25.20	104.27	1980.0	25.71	104.40
KODAIKANAL	KOD	10.23	77.47	79.77	77.47	1980.0	89.40	148.45	1980.0			1980.0		
KONTAGORA	KNT	10.40	5.45	79.60	5.45	1980.0	77.05	78.15	1980.0	89.90	76.67	1980.0		
KOROR	KOR	7.33	134.50	82.67	134.50	1980.0	92.95	204.73	1980.0			1980.0		
KOTZEBUE	KOT	66.88	-162.60	23.12	197.40	1980.0	25.99	243.55	1980.0	25.71	247.10	1980.0	25.89	248.20
KSARA	KSA	33.82	35.88	56.18	35.88	1980.0	60.00	112.96	1980.0	62.08	106.32	1980.0	63.07	107.40
KUMASI	KUM	6.70	-1.57	83.30	358.43	1980.0	79.35	70.46	1980.0	92.65	69.79	1980.0		
KUYPER	KUY	-6.03	106.73	96.03	106.73	1980.0	107.34	177.02	1980.0	105.73	176.63	1980.0		
KZIL-AGACH	KZA	45.37	78.73	44.63	78.73	1980.0	54.59	153.76	1980.0	48.56	148.78	1980.0	49.99	150.49
L AQUILA	AQU	42.38	13.32	47.62	13.32	1980.0	47.41	94.14	1980.0	51.73	87.92	1980.0	53.79	88.03
LA MADDALENA	LMD	41.23	9.40	48.77	9.40	1980.0	47.75	89.92	1980.0	52.76	84.42	1980.0	55.21	84.48
LA PAZ	LPB	-16.50	-68.10	106.50	291.90	1980.0	95.19	2.22	1980.0	93.01	1.45	1980.0		
LA QUIACA	LQA	-22.10	-65.60	112.10	294.40	1980.0	100.82	4.54	1980.0	98.32	3.78	1980.0		
LANZHOU	LZH	36.10	103.83	53.90	103.83	1980.0	65.17	174.87	1980.0	58.49	173.91	1980.0	60.33	175.19
LAS ACACIAS	LAS	-35.00	-57.68	125.00	302.32	1980.0	113.93	11.39	1980.0	111.01	9.99	1980.0	111.32	10.05
LAUDER	LAU	-45.03	169.68	135.03	169.68	1980.0	139.72	251.36	1980.0	142.65	251.70	1980.0	142.50	253.47
LAZAREV	LZV	-69.97	12.90	159.97	12.90	1980.0	155.98	56.69	1980.0	152.24	52.48	1980.0	152.06	52.91
LEADVILLE	LDV	39.28	-106.28	50.72	253.72	1980.0	41.93	317.26	1980.0	41.64	314.70	1980.0	41.84	316.64
LEIRVOGUR	LRV	64.18	-21.70	25.82	338.30	1980.0	20.10	72.19	1980.0	23.18	69.53	1980.0	24.36	69.43
LENINGRAD	LNN	59.95	30.70	30.05	30.70	1980.0	33.92	118.29	1980.0	33.78	107.44	1980.0	34.35	108.00
LENINGRADSKAYA	LEN	-69.50	159.40	159.50	159.40	1980.0	164.33	261.97	1980.0	168.66	274.47	1980.0	168.45	276.90
LERWICK	LER	60.13	-1.18	29.87	358.82	1980.0	27.75	89.64	1980.0	30.60	82.98	1980.0	31.81	82.83
LITTLE AMERICA	LAA	-78.18	-162.20	168.18	197.80	1980.0	163.95	312.23	1980.0	164.00	333.39	1980.0	163.71	334.86
LOGRONO	LGR	42.45	-2.50	47.55	357.50	1980.0	44.25	78.46	1980.0	49.78	75.12	1980.0	52.87	75.10
LORING AFB	LOB	46.92	-68.12	43.08	291.88	1980.0	31.77	2.97	1980.0	30.51	7.62	1980.0	31.95	10.27
LOVO	LOV	59.35	17.83	30.65	17.83	1980.0	32.15	106.77	1980.0	33.55	97.11	1980.0	34.37	97.25
LOVOZERO	LOZ	67.97	35.02	22.03	35.02	1980.0	27.21	127.74	1980.0	25.93	115.10	1980.0	26.38	115.71
LUANDA	LUA	-8.92	13.17	98.92	13.17	1980.0	97.49	81.96	1980.0	111.30	81.23	1980.0		
LUKIAPANG	LKP	31.32	121.03	58.68	121.03	1980.0	69.80	190.40	1980.0	63.86	191.00	1980.0	65.67	192.14

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
LUNPING	LNP	25.00	121.17	65.00	121.17	1980.0	76.11	190.80	1980.0	70.47	190.72	1980.0		
LVOV	LVV	49.90	23.75	40.10	23.75	1980.0	42.19	106.96	1980.0	43.96	98.42	1980.0	44.99	98.78
LWIRO	LWI	-2.25	28.80	92.25	28.80	1980.0	94.01	98.60	1980.0			1980.0		
LYNN LAKE	LYN	56.85	-101.07	33.15	258.93	1980.0	24.04	316.80	1980.0	22.69	316.02	1980.0	23.01	318.64
M BOUR	MBO	14.40	-16.97	75.60	343.03	1980.0	69.08	56.40	1980.0	79.29	57.69	1980.0		
MACQUARIE ISLAND	MCQ	-54.50	158.95	144.50	158.95	1980.0	150.75	244.41	1980.0	154.64	245.28	1980.0	154.55	247.31
MAGADAN	MGD	60.12	151.02	29.88	151.02	1980.0	39.02	211.57	1980.0	36.09	217.36	1980.0	36.78	217.98
MAGALLANES	MGS	-53.20	-70.90	143.20	289.10	1980.0	131.88	359.61	1980.0	127.99	2.50	1980.0	127.49	2.91
MAJURO	MJR	7.08	171.38	82.92	171.38	1980.0	88.35	241.03	1980.0			1980.0		
MALIYE KARMAKULY	MKL	72.30	52.50	17.70	52.50	1980.0	25.62	143.82	1980.0	22.38	131.55	1980.0	22.81	132.48
MANHAY	MAB	50.30	5.68	39.70	5.68	1980.0	38.32	90.04	1980.0	42.04	83.95	1980.0	43.74	83.92
MANILA	MAN	14.58	120.98	75.42	120.98	1980.0	86.53	191.04	1980.0			1980.0		
MAPUTO	LMM	-25.92	32.58	115.92	32.58	1980.0	117.92	97.31	1980.0	126.49	97.31	1980.0		
MARION ISLAND	MRN	-46.85	37.87	136.85	37.87	1980.0	139.24	95.90	1980.0	141.60	91.88	1980.0	141.96	91.98
MAURITIUS	MRI	-20.08	57.55	110.08	57.55	1980.0	116.75	123.98	1980.0	120.93	124.12	1980.0		
MAWSON	MAW	-67.60	62.88	157.60	62.88	1980.0	163.31	105.08	1980.0	160.34	90.21	1980.0	160.22	89.21
MCMURDO	MCM	-77.85	166.70	167.85	166.70	1980.0	168.82	294.31	1980.0	170.15	325.64	1980.0	169.94	327.15
MEANOOK	MEA	54.62	-113.33	35.38	246.67	1980.0	28.03	302.97	1980.0	27.39	300.81	1980.0	27.59	302.88
MELVILLE AFB	MEV	53.28	-60.53	36.72	299.47	1980.0	25.63	13.72	1980.0	25.51	20.37	1980.0	27.03	22.52
MEMAMBETSU	MMB	43.90	144.20	46.10	144.20	1980.0	55.70	209.70	1980.0	52.55	213.70	1980.0	53.53	214.34
MIDWAY	MDY	28.22	-177.37	61.78	182.63	1980.0	65.59	247.75	1980.0	65.13	247.59	1980.0		
MINSK	MNK	54.10	26.52	35.90	26.52	1980.0	38.70	111.42	1980.0	39.65	101.88	1980.0	40.42	102.37
MIRNY	MIR	-66.55	93.02	156.55	93.02	1980.0	167.02	149.66	1980.0	166.93	122.92	1980.0	167.20	121.69
MISALLAT	MLT	29.52	30.90	60.48	30.90	1980.0	63.28	107.20	1980.0	67.36	101.38	1980.0		
MIYAZU	MIU	35.32	135.12	54.68	135.12	1980.0	65.02	202.83	1980.0	60.62	205.08	1980.0	62.03	205.99
MIZUSAWA	MIZ	39.02	141.08	50.98	141.08	1980.0	60.84	207.69	1980.0	57.34	210.82	1980.0	58.44	211.58
MOCA	MFP	3.35	8.67	86.65	8.67	1980.0	84.58	79.94	1980.0			1980.0		
MODIIM	MOD	31.90	35.00	58.10	35.00	1980.0	61.71	111.65	1980.0	64.41	105.39	1980.0	65.44	106.42
MOGADISCIO	MOG	2.03	45.35	87.97	45.35	1980.0	92.90	115.68	1980.0			1980.0		
MOLODEZHNAYA	MOL	-67.57	45.87	157.57	45.87	1980.0	159.97	87.36	1980.0	156.69	77.60	1980.0	156.48	77.13
MONTE CAPELLINO	MCP	44.55	8.95	45.45	8.95	1980.0	44.46	90.71	1980.0	48.86	84.88	1980.0	50.96	84.89
MOSCOW	MOS	55.48	37.32	34.52	37.32	1980.0	39.28	121.51	1980.0	38.57	111.29	1980.0	39.18	112.13
MOULD BAY	MBC	76.20	-119.40	13.80	240.60	1980.0	10.59	258.34	1980.0	9.44	263.54	1980.0	9.27	265.93
MT WILSON	MWC	34.22	-118.07	55.78	241.93	1980.0	48.64	305.48	1980.0	49.54	303.24	1980.0	49.53	304.79
MUNTINLUPA	MUT	14.37	121.02	75.63	121.02	1980.0	86.73	191.09	1980.0			1980.0		
MURCHISON BAY	MUB	80.50	18.25	9.50	18.25	1980.0	14.57	139.00	1980.0	13.29	122.26	1980.0	13.47	122.53
MURMANSK	MMK	68.25	33.08	21.75	33.08	1980.0	26.65	126.55	1980.0	25.58	113.87	1980.0	26.02	114.39
NAGYCENK	NCK	47.63	16.72	42.37	16.72	1980.0	43.02	99.44	1980.0	46.06	92.02	1980.0	47.46	92.17
NAIROBI	NAI	-1.32	36.82	91.32	36.82	1980.0	94.63	106.67	1980.0			1980.0		
NANTES	NTS	47.25	-1.55	42.75	358.45	1980.0	39.82	81.39	1980.0	44.43	77.25	1980.0	46.79	77.19

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE CO-LAT	E LONG	YEAR	GUSTAFFSSON CO-LAT	E LONG	YEAR	TSYGANENKO CO-LAT	E LONG
NARSSARSSUAQ	NAQ	61.10	-45.20	28.90	314.80	1980.0	19.22	38.70	1980.0	21.27	44.17	1980.0	22.64	45.06
NEW AALESUND	NAL	78.92	11.93	11.08	11.93	1980.0	14.69	131.33	1980.0	14.11	114.72	1980.0	14.31	114.85
NEWPORT	NEW	48.27	-117.12	41.73	242.88	1980.0	34.78	301.85	1980.0	34.64	299.31	1980.0	34.82	301.09
NIEMEGK	NGK	52.07	12.67	37.93	12.67	1980.0	38.01	97.67	1980.0	40.79	90.11	1980.0	42.13	90.17
NITSANIM	NSM	31.73	34.60	58.27	34.60	1980.0	61.81	111.24	1980.0	64.63	105.00	1980.0	65.69	106.02
NORD	NRD	81.60	-16.76	8.40	343.24	1980.0	9.24	132.89	1980.0	9.20	111.60	1980.0	9.32	111.03
NORILSK	NOK	69.40	88.10	20.60	88.10	1980.0	31.40	165.68	1980.0	25.43	160.09	1980.0	26.20	161.38
NORMAN WELLS	NOW	64.90	-125.50	25.10	234.50	1980.0	20.67	279.83	1980.0	20.31	279.50	1980.0	20.38	281.51
NORTH POLE 6	NPF	84.00	94.00	6.00	94.00	1980.0	17.17	174.54	1980.0	13.08	168.10	1980.0	13.34	168.75
NORTH POLE 7	NPG	85.00	-91.88	5.00	268.12	1980.0	6.91	195.37	1980.0	4.36	187.04	1980.0	4.22	185.32
NORTH POLE 8	NPH	77.00	-171.00	13.00	189.00	1980.0	18.68	223.65	1980.0	16.69	229.20	1980.0	16.73	230.02
NORTH POLE 10	NPJ	77.00	166.38	13.00	166.38	1980.0	21.37	211.09	1980.0	18.42	216.46	1980.0	18.61	217.24
NORTH POLE 12	NPL	79.00	-173.00	11.00	187.00	1980.0	17.38	218.58	1980.0	15.00	223.93	1980.0	15.04	224.63
NORTH POLE 13	NPM	81.00	165.00	9.00	165.00	1980.0	18.00	204.63	1980.0	14.70	208.50	1980.0	14.82	208.96
NORTHWAY	NRW	62.97	-141.95	27.03	218.05	1980.0	25.62	265.52	1980.0	25.81	265.97	1980.0	25.93	267.45
NORWAY HOUSE	NHO	53.98	-97.83	36.02	262.17	1980.0	26.42	322.51	1980.0	24.87	321.87	1980.0	25.33	324.43
NORWAY STATION	NWS	-70.50	-2.53	160.50	357.47	1980.0	154.11	45.09	1980.0	150.15	42.66	1980.0	150.04	43.21
NOVOKAZALINSK	NKK	45.77	62.12	44.23	62.12	1980.0	52.41	139.55	1980.0	48.30	132.32	1980.0	49.32	134.05
NOVOLAZAREVSKAYA	NVL	-70.77	11.82	160.77	11.82	1980.0	156.51	54.94	1980.0	152.59	51.03	1980.0	152.38	51.51
NOVOSIBIRSK	NVS	55.03	82.90	34.97	82.90	1980.0	45.33	158.78	1980.0	38.77	153.35	1980.0	40.08	154.97
NUMTO	NMT	63.50	71.40	26.50	71.40	1980.0	36.03	152.03	1980.0	30.73	143.47	1980.0	31.57	144.98
NURMIJARVI	NUR	60.52	24.65	29.48	24.65	1980.0	32.32	113.53	1980.0	32.86	102.96	1980.0	33.50	103.29
NYDA	NDA	66.60	73.00	23.40	73.00	1980.0	33.14	154.34	1980.0	27.86	145.79	1980.0	28.61	147.18
O GYALLA	OGY	47.87	18.18	42.13	18.18	1980.0	43.08	100.92	1980.0	45.90	93.28	1980.0	47.22	93.47
OASIS	OAS	-66.30	100.72	156.30	100.72	1980.0	167.37	163.53	1980.0	168.57	134.98	1980.0	168.89	134.56
ODESSA	ODE	46.78	30.88	43.22	30.88	1980.0	46.51	112.23	1980.0	47.59	103.66	1980.0	48.50	104.35
ONAGAWA	ONW	38.43	141.47	51.57	141.47	1980.0	61.39	208.12	1980.0	57.96	211.14	1980.0	59.06	211.92
ORCADAS DEL SUR	ORC	-60.73	-44.78	150.73	315.22	1980.0	140.25	19.31	1980.0	136.18	19.13	1980.0	136.32	19.19
OTTAWA	OTT	45.40	-75.55	44.60	284.45	1980.0	33.34	353.43	1980.0	31.47	356.21	1980.0	32.69	359.01
P. TUNGUSKA	POD	61.60	90.00	28.40	90.00	1980.0	39.23	165.40	1980.0	32.48	160.96	1980.0	33.67	162.36
PALMYRA ISLAND	PAI	5.88	-162.08	84.12	197.92	1980.0	84.56	267.21	1980.0			1980.0		
PAMATAI	PPT	-17.57	-149.57	107.57	210.43	1980.0	105.12	284.09	1980.0	106.42	283.04	1980.0		
PANAGYURISHTE	PAG	42.52	24.18	47.48	24.18	1980.0	49.37	104.54	1980.0	52.17	97.02	1980.0	53.50	97.52
PARAMARIBO	PAB	5.82	-55.22	84.18	304.78	1980.0	73.27	15.79	1980.0	72.13	17.00	1980.0		
PELLY BAY	PEB	68.53	-89.52	21.47	270.48	1980.0	11.37	322.55	1980.0	10.39	329.23	1980.0	10.74	332.88
PENANG	PNN	5.50	100.40	84.50	100.40	1980.0	95.68	170.81	1980.0			1980.0		
PENDELI	PEG	38.05	23.87	51.95	23.87	1980.0	53.64	102.81	1980.0	57.32	96.01	1980.0	58.92	96.53
PETROPAVLOVSK	PET	53.10	158.63	36.90	158.63	1980.0	45.02	219.87	1980.0	43.44	224.80	1980.0	44.03	225.48
PETSAMO	PTS	69.53	31.25	20.47	31.25	1980.0	25.21	126.47	1980.0	24.24	113.47	1980.0	24.66	113.93
PILAR	PIL	-31.67	-63.88	121.67	296.12	1980.0	110.42	5.93	1980.0	107.43	5.34	1980.0	107.42	5.69

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
PIONERSKAYA	PIO	-69.73	95.50	159.73	95.50	1980.0	170.33	149.88	1980.0	169.67	114.78	1980.0	169.83	113.01
PLAISANCE	PLS	-20.43	57.67	110.43	57.67	1980.0	117.11	124.04	1980.0	121.27	124.13	1980.0		
PLATEAU	PTU	-79.25	40.50	169.25	40.50	1980.0	167.53	53.79	1980.0	161.94	50.97	1980.0	161.54	51.08
POLA	POL	44.87	13.85	45.13	13.85	1980.0	45.11	95.59	1980.0	48.94	88.97	1980.0	50.71	89.05
PORT ALFRED	CZT	-46.43	51.87	136.43	51.87	1980.0	141.51	110.57	1980.0	142.98	105.46	1980.0	143.31	105.34
PORT MORESBY	PMG	-9.40	147.15	99.40	147.15	1980.0	108.28	219.30	1980.0	107.11	217.61	1980.0		
PORT-AUX-FRANCAI	KGL	-49.35	70.20	139.35	70.20	1980.0	147.43	129.83	1980.0	148.11	121.17	1980.0	148.53	121.22
POTSDAM	POT	52.38	13.07	37.62	13.07	1980.0	37.79	98.21	1980.0	40.51	90.53	1980.0	41.80	90.60
PRICE	PCU	39.62	-110.78	50.38	249.22	1980.0	42.23	312.07	1980.0	42.27	309.44	1980.0	42.39	311.27
PRUHONICE	PRU	49.98	14.55	40.02	14.55	1980.0	40.36	98.43	1980.0	43.28	90.93	1980.0	44.64	91.03
QUETTA	QUE	30.18	66.95	59.82	66.95	1980.0	68.40	140.97	1980.0	64.80	136.99	1980.0	65.92	138.72
RANKIN INLET	RIT	62.80	-92.33	27.20	267.67	1980.0	17.19	324.72	1980.0	15.79	327.42	1980.0	16.23	330.61
RESOLUTE BAY	RES	74.70	-94.90	15.30	265.10	1980.0	6.82	292.87	1980.0	5.86	304.33	1980.0	5.92	309.73
RIO DE JANEIRO	RDJ	-22.92	-43.18	112.92	316.82	1980.0	102.77	25.60	1980.0	103.27	22.80	1980.0		
ROBURENT	ROB	44.30	7.88	45.70	7.88	1980.0	44.49	89.56	1980.0	49.04	83.94	1980.0	51.23	83.94
ROI BAUDOUIN	RBD	-70.43	24.30	160.43	24.30	1980.0	158.33	64.67	1980.0	154.44	59.12	1980.0	154.19	59.35
RUDE SKOV	RSV	55.85	12.45	34.15	12.45	1980.0	34.39	99.58	1980.0	36.71	91.35	1980.0	37.85	91.41
SABHAWALA	SAB	30.33	77.80	59.67	77.80	1980.0	69.44	150.95	1980.0	64.78	147.98	1980.0	66.19	149.51
SACHS HARBOUR	SAH	72.00	-125.00	18.00	235.00	1980.0	14.60	267.47	1980.0	13.80	270.00	1980.0	13.75	272.13
SAN FERNANDO	SFS	36.47	-6.20	53.53	353.80	1980.0	49.34	72.64	1980.0	56.20	70.73	1980.0	60.76	70.83
SAN JOSE	SJB	-23.22	-45.85	113.22	314.15	1980.0	102.86	23.07	1980.0	102.64	20.44	1980.0		
SAN JUAN	SJG	18.12	-66.15	71.88	293.85	1980.0	60.59	4.65	1980.0	58.53	5.54	1980.0		
SANAE	SNA	-70.30	-2.35	160.30	357.65	1980.0	153.95	45.40	1980.0	150.03	42.89	1980.0	149.93	43.44
SANTA CRUZ	SZT	28.48	-16.28	61.52	343.72	1980.0	55.34	59.99	1980.0	63.26	60.95	1980.0		
SAO MIGUEL	SMG	37.77	-25.65	52.23	334.35	1980.0	44.70	52.30	1980.0	49.86	54.96	1980.0	54.19	55.65
SCORESBYSUND	SCO	70.48	-21.97	19.52	338.03	1980.0	14.60	82.63	1980.0	17.21	76.25	1980.0	17.98	75.82
SCOTT BASE	SBA	-77.85	166.78	167.85	166.78	1980.0	168.80	294.35	1980.0	170.13	325.63	1980.0	169.92	327.15
SEDDIN	SED	52.28	13.02	37.72	13.02	1980.0	37.87	98.11	1980.0	40.61	90.45	1980.0	41.91	90.52
SEYKHA	SEY	70.10	72.50	19.90	72.50	1980.0	29.69	155.52	1980.0	24.71	146.49	1980.0	25.31	147.82
SHESHAN	SSH	31.10	121.18	58.90	121.18	1980.0	70.01	190.55	1980.0	64.09	191.14	1980.0	65.90	192.27
SIMFEROPOL	SIM	44.83	34.07	45.17	34.07	1980.0	48.97	114.45	1980.0	49.78	106.05	1980.0	50.61	106.92
SIMOSATO	SSO	33.57	135.93	56.43	135.93	1980.0	66.69	203.74	1980.0	62.49	205.75	1980.0	63.85	206.68
SITKA	SIT	57.07	-135.33	32.93	224.67	1980.0	29.75	277.08	1980.0	30.11	275.95	1980.0	30.26	277.45
SLUTZK	SLU	59.67	30.48	30.33	30.48	1980.0	34.15	117.94	1980.0	34.05	107.15	1980.0	34.64	107.70
SODANKYLA	SOD	67.37	26.63	22.63	26.63	1980.0	26.39	120.77	1980.0	26.10	108.47	1980.0	26.56	108.78
SOUTH GEORGIA	SGE	-54.28	-36.48	144.28	323.52	1980.0	134.51	27.19	1980.0	131.74	24.31	1980.0	132.41	24.26
SOUTH POLE	SPA	-90.00	0.00	180.00	0.00	1980.0	168.68	0.00	1980.0	164.60	12.20	1980.0	163.76	18.22
SPITZBERGEN	SPB	78.50	15.10	11.50	15.10	1980.0	15.44	131.69	1980.0	14.78	115.38	1980.0	14.95	115.61
SREDNIKAN	SRE	62.43	152.32	27.57	152.32	1980.0	36.63	211.76	1980.0	33.71	217.70	1980.0	34.34	218.29
ST JOHNS	STJ	47.60	-52.68	42.40	307.32	1980.0	31.77	22.95	1980.0	32.39	29.12	1980.0	34.45	31.05

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
STONYHURST	STO	53.85	-2.47	36.15	357.53	1980.0	33.36	83.87	1980.0	37.07	78.91	1980.0	38.73	78.81
SUKKERTOPPEN	SKT	65.42	-52.90	24.58	307.10	1980.0	14.17	30.74	1980.0	15.80	37.88	1980.0	16.84	38.81
SURLARI	SUA	44.68	26.25	45.32	26.25	1980.0	47.68	107.22	1980.0	49.79	99.24	1980.0	50.94	99.78
SVERDLOVSK	SVD	56.73	61.07	33.27	61.07	1980.0	41.54	141.70	1980.0	37.30	132.44	1980.0	38.14	134.06
SWIDER	SWI	52.12	21.25	37.88	21.25	1980.0	39.61	105.69	1980.0	41.44	96.97	1980.0	42.45	97.29
SYOWA STATION	SYO	-69.00	39.58	159.00	39.58	1980.0	159.96	79.38	1980.0	156.32	71.01	1980.0	156.09	70.78
TAHITI	TAH	-17.55	-149.62	107.55	210.38	1980.0	105.11	284.04	1980.0	106.40	282.98	1980.0		
TALARA	TAL	-4.63	-81.30	94.63	278.70	1980.0	83.51	349.08	1980.0			1980.0		
TALKEETNA	TLK	62.30	-150.10	27.70	209.90	1980.0	27.81	258.60	1980.0	28.12	259.81	1980.0	28.30	261.08
TAMANRASSET	TAM	22.80	5.53	67.20	5.53	1980.0	64.92	80.88	1980.0	74.86	78.14	1980.0		
TAMBEY	TMB	71.50	71.80	18.50	71.80	1980.0	28.28	155.77	1980.0	23.45	146.50	1980.0	23.99	147.76
TANANARIVE	TAN	-18.92	47.55	108.92	47.55	1980.0	113.89	113.96	1980.0	120.15	114.80	1980.0		
TANGERANG	TNG	-6.17	106.63	96.17	106.63	1980.0	107.47	176.91	1980.0	105.89	176.52	1980.0		
TASHKENT	TKT	41.33	69.62	48.67	69.62	1980.0	57.68	145.19	1980.0	52.81	139.62	1980.0	54.07	141.40
TATUOCA	TTB	-1.20	-48.52	91.20	311.48	1980.0	80.70	22.19	1980.0			1980.0		
TBILISI	TFS	42.08	44.70	47.92	44.70	1980.0	53.47	123.24	1980.0	52.62	115.33	1980.0	53.33	116.68
TEHRAN	TEH	35.73	51.38	54.27	51.38	1980.0	60.75	127.73	1980.0	59.24	121.34	1980.0	59.95	122.95
TEOLOYUCAN	TEO	19.75	-99.18	70.25	260.82	1980.0	60.44	328.62	1980.0	61.29	326.20	1980.0		
TEVRIZ	TEV	57.50	72.40	32.50	72.40	1980.0	42.02	150.97	1980.0	36.44	143.33	1980.0	37.48	144.95
THOMPSON	TMP	55.72	-97.88	34.28	262.12	1980.0	24.73	321.60	1980.0	23.23	321.22	1980.0	23.62	323.86
THULE	THL	77.48	-69.17	12.52	290.83	1980.0	1.23	12.66	1980.0	3.23	39.09	1980.0	3.66	39.73
THULE AFB	THU	76.55	-68.83	13.45	291.17	1980.0	2.16	9.81	1980.0	3.98	33.27	1980.0	4.41	34.47
TIHANY	THY	46.90	17.90	43.10	17.90	1980.0	43.95	100.25	1980.0	46.97	92.80	1980.0	48.35	92.99
TIKHAYA BAY	TKH	80.30	52.80	9.70	52.80	1980.0	18.48	153.60	1980.0	15.30	140.77	1980.0	15.55	141.63
TIXIE BAY	TIK	71.58	129.00	18.42	129.00	1980.0	29.33	192.38	1980.0	24.18	195.48	1980.0	24.86	196.21
TOKYO	TOK	35.75	139.72	54.25	139.72	1980.0	64.21	206.90	1980.0	60.53	209.42	1980.0	61.74	210.27
TOLEDO	TOL	39.88	-4.05	50.12	355.95	1980.0	46.44	75.95	1980.0	52.59	73.23	1980.0	56.18	73.26
TOMSK	TMK	56.47	84.93	33.53	84.93	1980.0	44.04	160.64	1980.0	37.35	155.48	1980.0	38.66	157.06
TOOLANGI	TOO	-37.53	145.47	127.53	145.47	1980.0	136.34	222.32	1980.0	138.53	220.27	1980.0	138.61	221.91
TRELEW	TRW	-43.25	-65.32	133.25	294.68	1980.0	121.97	4.37	1980.0	118.39	4.94	1980.0	118.10	5.19
TRIVANDRUM	TRD	8.48	76.95	81.52	76.95	1980.0	91.08	147.75	1980.0			1980.0		
TROMSO	TRO	69.67	18.95	20.33	18.95	1980.0	23.04	117.42	1980.0	23.25	104.78	1980.0	23.75	104.87
TSUMEB	TSU	-19.22	17.70	109.22	17.70	1980.0	108.46	84.24	1980.0	120.60	83.43	1980.0		
TUCSON	TUC	32.25	-110.83	57.75	249.17	1980.0	49.49	313.84	1980.0	50.12	311.36	1980.0	50.18	313.09
TULSA	TUL	35.90	-95.78	54.10	264.22	1980.0	44.06	330.06	1980.0	43.07	327.96	1980.0	43.50	330.18
UGUT	UGT	61.00	74.00	29.00	74.00	1980.0	38.72	153.19	1980.0	33.05	145.36	1980.0	34.03	146.96
UJJAIN	UJJ	23.02	75.78	66.98	75.78	1980.0	76.51	148.22	1980.0	72.96	145.98	1980.0		
UKHTA	UKH	60.50	74.00	29.50	74.00	1980.0	39.21	153.04	1980.0	33.52	145.26	1980.0	34.52	146.88
ULAN BATOR	UBA	47.85	106.75	42.15	106.75	1980.0	53.46	177.63	1980.0	46.22	177.38	1980.0	47.96	178.57
VAL JOYEUX	VLJ	48.82	2.02	41.18	2.02	1980.0	39.01	85.70	1980.0	43.18	80.59	1980.0	45.21	80.51

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
VALENTIA	VAL	51.93	-10.25	38.07	349.75	1980.0	33.68	74.70	1980.0	37.83	71.98	1980.0	39.90	71.95
VASSOURAS	VSS	-22.40	-43.65	112.40	316.35	1980.0	102.22	25.21	1980.0	102.64	22.50	1980.0		
VICTORIA	VIC	48.52	-123.42	41.48	236.58	1980.0	35.63	294.73	1980.0	35.88	292.34	1980.0	36.00	293.97
VIEQUES	VQS	18.15	-65.45	71.85	294.55	1980.0	60.58	5.41	1980.0	58.53	6.45	1980.0		
VLADIVOSTOK	VLA	43.68	132.17	46.32	132.17	1980.0	56.90	199.36	1980.0	51.96	202.67	1980.0	53.31	203.44
VOSTOK	VOS	-78.45	106.87	168.45	106.87	1980.0	179.41	111.76	1980.0	173.69	55.73	1980.0	173.33	53.84
WAKE ISLAND	WKE	19.20	166.70	70.80	166.70	1980.0	77.18	234.42	1980.0	75.91	234.08	1980.0		
WATHEROO	WAT	-30.30	115.90	120.30	115.90	1980.0	131.54	187.28	1980.0	132.49	184.92	1980.0	132.67	186.05
WESTON	WES	42.38	-71.32	47.62	288.68	1980.0	36.30	358.86	1980.0	34.58	2.10	1980.0	36.00	4.87
WHITESHELL	WHS	49.75	-95.25	40.25	264.75	1980.0	30.29	327.44	1980.0	28.69	326.60	1980.0	29.18	329.17
WIEN-KOBENZL	WIK	48.27	16.32	41.73	16.32	1980.0	42.33	99.34	1980.0	44.69	91.86	1980.0	46.70	92.01
WILHELMSHAVEN	WLH	53.52	8.15	36.48	8.15	1980.0	35.75	94.14	1980.0	38.79	87.08	1980.0	40.17	87.05
WILKES	WIL	-66.25	110.58	156.25	110.58	1980.0	167.57	181.85	1980.0	170.40	154.52	1980.0	170.81	155.11
WINGST	WNG	53.75	9.07	36.25	9.07	1980.0	35.71	95.15	1980.0	38.65	87.88	1980.0	39.97	87.87
WINNIPEG	WNP	49.63	-97.13	40.37	262.87	1980.0	30.61	325.12	1980.0	29.11	324.00	1980.0	29.56	326.46
WITTEVEEN	WIT	52.82	6.67	37.18	6.67	1980.0	36.12	92.32	1980.0	39.38	85.65	1980.0	40.86	85.60
YAKUTSK	YAK	62.02	129.72	27.98	129.72	1980.0	38.79	194.94	1980.0	33.37	199.14	1980.0	34.40	199.79
YAUCA	YAU	-15.53	-74.67	105.53	285.33	1980.0	94.24	355.88	1980.0			1980.0		
YELLOWKNIFE	YKC	62.43	-114.40	27.57	245.60	1980.0	20.84	295.38	1980.0	20.06	294.38	1980.0	20.22	296.73
YUZHNO SAKHALINS	YSS	46.95	142.72	43.05	142.72	1980.0	52.82	207.92	1980.0	49.37	212.27	1980.0	50.36	212.95
ZARIA	ZAR	11.15	7.65	78.85	7.65	1980.0	76.73	80.47	1980.0	89.32	78.78	1980.0		
ZIKAWEI	ZKW	31.22	121.43	58.78	121.43	1980.0	69.88	190.77	1980.0	63.98	191.39	1980.0	65.78	192.53

TABLE II
(SEQUENCED BY DIPOLE CO-LAT)

GEOMAGNETIC OBSERVATORY COORDINATES

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
THULE	THL	77.48	-69.17	12.52	290.83	1980.0	1.23	12.66	1980.0	3.23	39.09	1980.0	3.66	39.73
THULE AFB	THU	76.55	-68.83	13.45	291.17	1980.0	2.16	9.81	1980.0	3.98	33.27	1980.0	4.41	34.47
ALERT	ALE	82.50	-62.50	7.50	297.50	1980.0	4.02	165.17	1980.0	3.23	124.34	1980.0	3.25	119.85
RESOLUTE BAY	RES	74.70	-94.90	15.30	265.10	1980.0	6.82	292.87	1980.0	5.86	304.33	1980.0	5.92	309.73
NORTH POLE 7	NPG	85.00	-91.88	5.00	268.12	1980.0	6.91	195.37	1980.0	4.36	187.04	1980.0	4.22	185.32
NORD	NRD	81.60	-16.76	8.40	343.24	1980.0	9.24	132.89	1980.0	9.20	111.60	1980.0	9.32	111.03
GODHAVN	GDH	69.23	-53.52	20.77	306.48	1980.0	10.45	34.63	1980.0	12.38	41.58	1980.0	13.18	42.15
MOULD BAY	MBC	76.20	-119.40	13.80	240.60	1980.0	10.59	258.34	1980.0	9.44	263.54	1980.0	9.27	265.93
PELLY BAY	PEB	68.53	-89.52	21.47	270.48	1980.0	11.37	322.55	1980.0	10.39	329.23	1980.0	10.74	332.88
GUANGZHOU	GZH	23.08	113.33	66.92	113.33	1980.0	11.92	183.85	1980.0	72.92	202.72	1980.0		
GJOAHAVN	GJO	68.63	-95.92	21.37	264.08	1980.0	12.13	311.67	1980.0	11.01	316.22	1980.0	11.27	319.79
JOHNSON POINT	JOP	72.47	-118.30	17.53	241.70	1980.0	12.93	272.79	1980.0	12.05	275.74	1980.0	11.96	278.24
CAMBRIDGE BAY	CBB	69.10	-105.00	20.90	255.00	1980.0	13.18	297.31	1980.0	12.16	299.70	1980.0	12.23	303.03
ARCTIC ICE FLO	AIF	83.53	-166.95	6.47	193.05	1980.0	13.64	208.33	1980.0	10.76	211.64	1980.0	10.76	212.14
SUKKERTOPPEN	SKT	65.42	-52.90	24.58	307.10	1980.0	14.17	30.74	1980.0	15.80	37.88	1980.0	16.84	38.81
MURCHISON BAY	MUB	80.50	18.25	9.50	18.25	1980.0	14.57	139.00	1980.0	13.29	122.26	1980.0	13.47	122.53
SCORESBYSUND	SCO	70.48	-21.97	19.52	338.03	1980.0	14.60	82.63	1980.0	17.21	76.25	1980.0	17.98	75.82
SACHS HARBOUR	SAH	72.00	-125.00	18.00	235.00	1980.0	14.60	267.47	1980.0	13.80	270.00	1980.0	13.75	272.13
KAP TOBIN	KTG	70.42	-21.97	19.58	338.03	1980.0	14.65	82.49	1980.0	17.30	76.10	1980.0	18.04	75.73
NEW AALESUND	NAL	78.92	11.93	11.08	11.93	1980.0	14.69	131.33	1980.0	14.11	114.72	1980.0	14.31	114.85
SPITZBERGEN	SPB	78.50	15.10	11.50	15.10	1980.0	15.44	131.69	1980.0	14.78	115.38	1980.0	14.95	115.61
CAPE PARRY	CPY	70.17	-124.72	19.83	235.28	1980.0	16.00	271.96	1980.0	15.39	273.58	1980.0	15.30	275.75
BAKER LAKE	BLC	64.33	-96.03	25.67	263.97	1980.0	16.17	317.73	1980.0	14.85	319.99	1980.0	15.20	323.25
CHESTERFIELD INL	CFI	63.33	-90.72	26.67	269.28	1980.0	16.49	326.72	1980.0	15.12	330.07	1980.0	15.60	333.30
NORTH POLE 6	NPF	84.00	94.00	6.00	94.00	1980.0	17.17	174.54	1980.0	13.08	168.10	1980.0	13.34	168.75
RANKIN INLET	RIT	62.80	-92.33	27.20	267.67	1980.0	17.19	324.72	1980.0	15.79	327.42	1980.0	16.23	330.61
NORTH POLE 12	NPL	79.00	-173.00	11.00	187.00	1980.0	17.38	218.58	1980.0	15.00	223.93	1980.0	15.04	224.63
NORTH POLE 13	NPM	81.00	165.00	9.00	165.00	1980.0	18.00	204.63	1980.0	14.70	208.50	1980.0	14.82	208.96
TIKHAYA BAY	TKH	80.30	52.80	9.70	52.80	1980.0	18.48	153.60	1980.0	15.30	140.77	1980.0	15.55	141.63
HEISS ISLAND	HIS	80.62	58.05	9.38	58.05	1980.0	18.64	156.47	1980.0	15.19	144.47	1980.0	15.46	145.32
NORTH POLE 8	NPH	77.00	-171.00	13.00	189.00	1980.0	18.68	223.65	1980.0	16.69	229.20	1980.0	16.73	230.02
IVIGTUT	IVI	61.20	-48.15	28.80	311.85	1980.0	18.78	34.54	1980.0	20.55	40.64	1980.0	21.89	41.76
BEAR ISLAND	BJN	74.52	19.02	15.48	19.02	1980.0	19.00	124.95	1980.0	18.65	110.52	1980.0	19.00	110.44
ESKIMO POINT	EKP	61.10	-94.07	28.90	265.93	1980.0	19.03	323.51	1980.0	17.55	325.15	1980.0	17.99	328.25
NARSSARSSUAQ	NAQ	61.10	-45.20	28.90	314.80	1980.0	19.22	38.70	1980.0	21.27	44.17	1980.0	22.64	45.06
INUVIK	INK	68.25	-133.30	21.75	226.70	1980.0	19.29	267.10	1980.0	18.90	268.30	1980.0	18.96	270.09
JULIANEHAAB	JUL	60.72	-46.03	29.28	313.97	1980.0	19.49	37.24	1980.0	21.44	42.91	1980.0	22.83	43.90
BARTER ISLAND	BTI	70.13	-143.67	19.87	216.33	1980.0	19.71	254.77	1980.0	19.31	257.43	1980.0	19.31	258.93
LEIRVOGUR	LRV	64.18	-21.70	25.82	338.30	1980.0	20.10	72.19	1980.0	23.18	69.53	1980.0	24.36	69.43
NORMAN WELLS	NOW	64.90	-125.50	25.10	234.50	1980.0	20.67	279.83	1980.0	20.31	279.50	1980.0	20.38	281.51

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
FORT RAE	FRA	62.80	-116.10	27.20	243.90	1980.0	20.81	292.95	1980.0	20.10	291.98	1980.0	20.24	294.28
YELLOWKNIFE	YKC	62.43	-114.40	27.57	245.60	1980.0	20.84	295.38	1980.0	20.06	294.38	1980.0	20.22	296.73
BARROW	BRW	71.30	-156.75	18.70	203.25	1980.0	21.12	242.60	1980.0	20.42	246.63	1980.0	20.49	247.89
FORT CHURCHILL	FCC	58.80	-94.10	31.20	265.90	1980.0	21.28	325.00	1980.0	19.73	326.01	1980.0	20.17	328.92
NORTH POLE 10	NPJ	77.00	166.38	13.00	166.38	1980.0	21.37	211.09	1980.0	18.42	216.46	1980.0	18.61	217.24
ARCTIC VILLAGE	AVI	68.13	-145.57	21.87	214.43	1980.0	21.77	256.17	1980.0	21.58	258.32	1980.0	21.61	259.79
BACK	BKC	57.68	-94.23	32.32	265.77	1980.0	22.39	325.46	1980.0	20.81	326.17	1980.0	21.26	329.03
BODO	BOD	69.30	14.42	20.70	14.42	1980.0	22.56	113.41	1980.0	23.24	101.26	1980.0	23.76	101.22
FORT SIMPSON	FSP	61.75	-121.23	28.25	238.77	1980.0	22.71	288.15	1980.0	22.31	286.97	1980.0	22.40	288.99
CAPE ZHELANIA	CZA	77.00	68.60	13.00	68.60	1980.0	22.77	157.59	1980.0	18.52	147.39	1980.0	18.92	148.28
TROMSO	TRO	69.67	18.95	20.33	18.95	1980.0	23.04	117.42	1980.0	23.25	104.78	1980.0	23.75	104.87
FORT YUKON	FYU	66.57	-145.30	23.43	214.70	1980.0	23.07	258.45	1980.0	23.02	260.10	1980.0	23.09	261.57
GILLAM	GIM	56.85	-94.42	33.15	265.58	1980.0	23.22	325.64	1980.0	21.62	326.13	1980.0	22.08	328.95
BOSSEKOP	BOP	69.97	23.25	20.03	23.25	1980.0	23.52	121.06	1980.0	23.29	108.11	1980.0	23.75	108.31
GREAT WHALE R.	GWC	55.27	-77.78	34.73	282.22	1980.0	23.54	349.46	1980.0	22.04	353.76	1980.0	22.98	356.61
CAPE CHELYUSKIN	CCS	77.72	104.28	12.28	104.28	1980.0	23.57	177.18	1980.0	18.42	174.19	1980.0	18.87	174.99
LYNN LAKE	LYN	56.85	-101.07	33.15	258.93	1980.0	24.04	316.80	1980.0	22.69	316.02	1980.0	23.01	318.64
ABISKO	ABK	68.35	18.82	21.65	18.82	1980.0	24.17	115.70	1980.0	24.56	103.55	1980.0	25.07	103.63
THOMPSON	TMP	55.72	-97.88	34.28	262.12	1980.0	24.73	321.60	1980.0	23.23	321.22	1980.0	23.62	323.86
KIRUNA	KIR	67.83	20.42	22.17	20.42	1980.0	24.91	116.38	1980.0	25.20	104.27	1980.0	25.71	104.40
FORT SMITH	FSM	58.00	-114.00	32.00	246.00	1980.0	24.92	299.87	1980.0	24.18	298.06	1980.0	24.40	300.26
COLLEGE	CMO	64.87	-147.83	25.13	212.17	1980.0	25.06	258.14	1980.0	25.16	259.65	1980.0	25.28	261.02
EIELSON AFB	ENB	64.67	-147.08	25.33	212.92	1980.0	25.09	259.03	1980.0	25.22	260.41	1980.0	25.32	261.79
PETSAMO	PTS	69.53	31.25	20.47	31.25	1980.0	25.21	126.47	1980.0	24.24	113.47	1980.0	24.66	113.93
IVALO	IVA	68.60	27.48	21.40	27.48	1980.0	25.43	122.68	1980.0	24.95	110.02	1980.0	25.38	110.34
BIG DELTA	BDE	64.00	-145.73	26.00	214.27	1980.0	25.43	260.96	1980.0	25.63	262.03	1980.0	25.71	263.44
NORTHWAY	NRW	62.97	-141.95	27.03	218.05	1980.0	25.62	265.52	1980.0	25.81	265.97	1980.0	25.93	267.45
MALIYE KARMAKULY	MKL	72.30	52.50	17.70	52.50	1980.0	25.62	143.82	1980.0	22.38	131.55	1980.0	22.81	132.48
MELVILLE AFB	MEV	53.28	-60.53	36.72	299.47	1980.0	25.63	13.72	1980.0	25.51	20.37	1980.0	27.03	22.52
KOTZEBUE	KOT	66.88	-162.60	23.12	197.40	1980.0	25.99	243.55	1980.0	25.71	247.10	1980.0	25.89	248.20
ISLAND LAKE	ISL	53.88	-94.68	36.12	265.32	1980.0	26.16	326.66	1980.0	24.48	326.53	1980.0	25.01	329.25
HEALY	HEA	63.85	-148.97	26.15	211.03	1980.0	26.19	258.17	1980.0	26.36	259.61	1980.0	26.52	260.89
SODANKYLA	SOD	67.37	26.63	22.63	26.63	1980.0	26.39	120.77	1980.0	26.10	108.47	1980.0	26.56	108.78
BELIY ISLAND	BEY	73.30	70.00	16.70	70.00	1980.0	26.40	155.68	1980.0	21.83	145.92	1980.0	22.30	147.09
NORWAY HOUSE	NHO	53.98	-97.83	36.02	262.17	1980.0	26.42	322.51	1980.0	24.87	321.87	1980.0	25.33	324.43
MURMANSK	MMK	68.25	33.08	21.75	33.08	1980.0	26.65	126.55	1980.0	25.58	113.87	1980.0	26.02	114.39
CAPE SCHMIDT	CPS	68.92	-179.48	21.08	180.52	1980.0	26.89	228.72	1980.0	25.68	234.05	1980.0	25.91	234.94
DIXON ISLAND	DIK	73.55	80.57	16.45	80.57	1980.0	26.90	162.32	1980.0	21.69	154.69	1980.0	22.27	155.85
LOVOZERO	LOZ	67.97	35.02	22.03	35.02	1980.0	27.21	127.74	1980.0	25.93	115.10	1980.0	26.38	115.71
KANDALAKSHA	KND	67.13	32.43	22.87	32.43	1980.0	27.56	125.02	1980.0	26.64	112.61	1980.0	27.10	113.12

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
LERWICK	LER	60.13	-1.18	29.87	358.82	1980.0	27.75	89.64	1980.0	30.60	82.98	1980.0	31.81	82.83
TALKEETNA	TLK	62.30	-150.10	27.70	209.90	1980.0	27.81	258.60	1980.0	28.12	259.81	1980.0	28.30	261.08
CAPE WELLEN	CWE	66.17	-169.83	23.83	190.17	1980.0	27.87	238.48	1980.0	27.50	242.59	1980.0	27.67	243.62
DOMBAS	DOB	62.07	9.12	27.93	9.12	1980.0	27.99	101.05	1980.0	29.92	91.89	1980.0	30.80	91.87
MEANOOK	MEA	54.62	-113.33	35.38	246.67	1980.0	28.03	302.97	1980.0	27.39	300.81	1980.0	27.59	302.88
KHARASAVEY	KHS	71.13	66.83	18.87	66.83	1980.0	28.21	152.32	1980.0	23.72	142.22	1980.0	24.25	143.42
TAMBEY	TMB	71.50	71.80	18.50	71.80	1980.0	28.28	155.77	1980.0	23.45	146.50	1980.0	23.99	147.76
ANCHORAGE	AMU	61.20	-149.90	28.80	210.10	1980.0	28.78	259.73	1980.0	29.18	260.70	1980.0	29.36	261.97
AMDERMA	AMD	69.47	61.42	20.53	61.42	1980.0	29.27	147.69	1980.0	25.18	136.89	1980.0	25.70	138.09
TIXIE BAY	TIK	71.58	129.00	18.42	129.00	1980.0	29.33	192.38	1980.0	24.18	195.48	1980.0	24.86	196.21
SEYKHA	SEY	70.10	72.50	19.90	72.50	1980.0	29.69	155.52	1980.0	24.71	146.49	1980.0	25.31	147.82
SITKA	SIT	57.07	-135.33	32.93	224.67	1980.0	29.75	277.08	1980.0	30.11	275.95	1980.0	30.26	277.45
WHITESHELL	WHS	49.75	-95.25	40.25	264.75	1980.0	30.29	327.44	1980.0	28.69	326.60	1980.0	29.18	329.17
WINNIPEG	WNP	49.63	-97.13	40.37	262.87	1980.0	30.61	325.12	1980.0	29.11	324.00	1980.0	29.56	326.46
GLENLEA	GLL	49.63	-97.10	40.37	262.90	1980.0	30.61	325.16	1980.0	29.11	324.04	1980.0	29.56	326.50
ARKHANGELSK	ARK	64.60	40.50	25.40	40.50	1980.0	31.16	129.25	1980.0	29.45	117.40	1980.0	29.94	118.21
CAPE KAMENNIY	CKA	68.50	73.60	21.50	73.60	1980.0	31.34	155.54	1980.0	26.15	146.93	1980.0	26.82	148.26
NORILSK	NOK	69.40	88.10	20.60	88.10	1980.0	31.40	165.68	1980.0	25.43	160.09	1980.0	26.20	161.38
LORING AFB	LOB	46.92	-68.12	43.08	291.88	1980.0	31.77	2.97	1980.0	30.51	7.62	1980.0	31.95	10.27
ST JOHNS	STJ	47.60	-52.68	42.40	307.32	1980.0	31.77	22.95	1980.0	32.39	29.12	1980.0	34.45	31.05
ENKOPING	ENK	59.60	17.02	30.40	17.02	1980.0	31.77	106.22	1980.0	33.21	96.60	1980.0	34.05	96.73
ESKDALEMUIR	ESK	55.32	-3.20	34.68	356.80	1980.0	31.83	84.05	1980.0	35.38	79.00	1980.0	36.95	78.86
LOVO	LOV	59.35	17.83	30.65	17.83	1980.0	32.15	106.77	1980.0	33.55	97.11	1980.0	34.37	97.25
NURMIJARVI	NUR	60.52	24.65	29.48	24.65	1980.0	32.32	113.53	1980.0	32.86	102.96	1980.0	33.50	103.29
NYDA	NDA	66.60	73.00	23.40	73.00	1980.0	33.14	154.34	1980.0	27.86	145.79	1980.0	28.61	147.18
OTTAWA	OTT	45.40	-75.55	44.60	284.45	1980.0	33.34	353.43	1980.0	31.47	356.21	1980.0	32.69	359.01
STONYHURST	STO	53.85	-2.47	36.15	357.53	1980.0	33.36	83.87	1980.0	37.07	78.91	1980.0	38.73	78.81
VALENTIA	VAL	51.93	-10.25	38.07	349.75	1980.0	33.68	74.70	1980.0	37.83	71.98	1980.0	39.90	71.95
LENINGRAD	LNN	59.95	30.70	30.05	30.70	1980.0	33.92	118.29	1980.0	33.78	107.44	1980.0	34.35	108.00
SLUTZK	SLU	59.67	30.48	30.33	30.48	1980.0	34.15	117.94	1980.0	34.05	107.15	1980.0	34.64	107.70
RUDE SKOV	RSV	55.85	12.45	34.15	12.45	1980.0	34.39	99.58	1980.0	36.71	91.35	1980.0	37.85	91.41
COPENHAGEN	COP	55.68	12.58	34.32	12.58	1980.0	34.58	99.60	1980.0	36.91	91.38	1980.0	38.04	91.45
NEWPORT	NEW	48.27	-117.12	41.73	242.88	1980.0	34.78	301.85	1980.0	34.64	299.31	1980.0	34.82	301.09
AGINCOURT	AGN	43.78	-79.27	46.22	280.73	1980.0	35.07	348.84	1980.0	33.11	350.48	1980.0	34.15	353.27
VICTORIA	VIC	48.52	-123.42	41.48	236.58	1980.0	35.63	294.73	1980.0	35.88	292.34	1980.0	36.00	293.97
HARTLAND	HAD	50.98	-4.48	39.02	355.52	1980.0	35.69	80.20	1980.0	39.85	76.25	1980.0	41.87	76.13
WINGST	WNG	53.75	9.07	36.25	9.07	1980.0	35.71	95.15	1980.0	38.65	87.88	1980.0	39.97	87.87
WILHELMSHAVEN	WLH	53.52	8.15	36.48	8.15	1980.0	35.75	94.14	1980.0	38.79	87.08	1980.0	40.17	87.05
NUMTO	NMT	63.50	71.40	26.50	71.40	1980.0	36.03	152.03	1980.0	30.73	143.47	1980.0	31.57	144.98
GREENWICH	GRW	51.48	0.00	38.52	0.00	1980.0	36.08	85.02	1980.0	39.97	79.92	1980.0	41.80	79.83

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WITTEVEEN	WIT	52.82	6.67	37.18	6.67	1980.0	36.12	92.32	1980.0	39.38	85.65	1980.0	40.86	85.60
ABINGER	ABN	51.18	-0.38	38.82	359.62	1980.0	36.29	84.47	1980.0	40.25	79.52	1980.0	42.12	79.42
WESTON	WES	42.38	-71.32	47.62	288.68	1980.0	36.30	358.86	1980.0	34.58	2.10	1980.0	36.00	4.87
DE BILT	DBN	52.10	5.18	37.90	5.18	1980.0	36.51	90.48	1980.0	40.01	84.18	1980.0	41.57	84.15
SREDNIKAN	SRE	62.43	152.32	27.57	152.32	1980.0	36.63	211.76	1980.0	33.71	217.70	1980.0	34.34	218.29
HEL	HLP	54.60	18.82	35.40	18.82	1980.0	36.79	104.74	1980.0	38.59	95.90	1980.0	39.60	96.10
KALININGRAD	KNG	54.70	20.62	35.30	20.62	1980.0	37.04	106.43	1980.0	38.61	97.37	1980.0	39.57	97.62
BOROK	BOX	58.03	38.97	31.97	38.97	1980.0	37.12	124.15	1980.0	35.95	113.45	1980.0	36.56	114.33
BOCHUM	BOC	51.48	7.23	38.52	7.23	1980.0	37.50	92.15	1980.0	40.89	85.60	1980.0	42.46	85.57
POTSDAM	POT	52.38	13.07	37.62	13.07	1980.0	37.79	98.21	1980.0	40.51	90.53	1980.0	41.80	90.60
SEDDIN	SED	52.28	13.02	37.72	13.02	1980.0	37.87	98.11	1980.0	40.61	90.45	1980.0	41.91	90.52
GOTTINGEN	GTT	51.53	9.97	38.47	9.97	1980.0	37.99	94.82	1980.0	41.11	87.81	1980.0	42.60	87.79
NIEMEGK	NGK	52.07	12.67	37.93	12.67	1980.0	38.01	97.67	1980.0	40.79	90.11	1980.0	42.13	90.17
DOURBES	DOU	50.10	4.60	39.90	4.60	1980.0	38.30	88.88	1980.0	42.13	83.02	1980.0	43.89	82.99
MANHAY	MAB	50.30	5.68	39.70	5.68	1980.0	38.32	90.04	1980.0	42.04	83.95	1980.0	43.74	83.92
CASPER	CSR	42.85	-106.30	47.15	253.70	1980.0	38.42	316.25	1980.0	37.89	313.74	1980.0	38.11	315.76
MINSK	MNK	54.10	26.52	35.90	26.52	1980.0	38.70	111.42	1980.0	39.65	101.88	1980.0	40.42	102.37
UGUT	UGT	61.00	74.00	29.00	74.00	1980.0	38.72	153.19	1980.0	33.05	145.36	1980.0	34.03	146.96
COLLMBERG	CLL	51.32	13.00	38.68	13.00	1980.0	38.78	97.61	1980.0	41.65	90.12	1980.0	43.02	90.18
YAKUTSK	YAK	62.02	129.72	27.98	129.72	1980.0	38.79	194.94	1980.0	33.37	199.14	1980.0	34.40	199.79
VAL JOYEUX	VLJ	48.82	2.02	41.18	2.02	1980.0	39.01	85.70	1980.0	43.18	80.59	1980.0	45.21	80.51
MAGADAN	MGD	60.12	151.02	29.88	151.02	1980.0	39.02	211.57	1980.0	36.09	217.36	1980.0	36.78	217.98
UKHTA	UKH	60.50	74.00	29.50	74.00	1980.0	39.21	153.04	1980.0	33.52	145.26	1980.0	34.52	146.88
P. TUNGUSKA	POD	61.60	90.00	28.40	90.00	1980.0	39.23	165.40	1980.0	32.48	160.96	1980.0	33.67	162.36
MOSCOW	MOS	55.48	37.32	34.52	37.32	1980.0	39.28	121.51	1980.0	38.57	111.29	1980.0	39.18	112.13
SWIDER	SWI	52.12	21.25	37.88	21.25	1980.0	39.61	105.69	1980.0	41.44	96.97	1980.0	42.45	97.29
BELSK	BEL	51.83	20.80	38.17	20.80	1980.0	39.80	105.13	1980.0	41.73	96.51	1980.0	42.76	96.82
NANTES	NTS	47.25	-1.55	42.75	358.45	1980.0	39.82	81.39	1980.0	44.43	77.25	1980.0	46.79	77.19
CHAMBON-LA-FORET	CLF	48.02	2.27	41.98	2.27	1980.0	39.83	85.58	1980.0	44.10	80.52	1980.0	46.21	80.46
ANDREWS AFB	AWS	38.82	-76.87	51.18	283.13	1980.0	39.95	352.15	1980.0	37.92	353.54	1980.0	39.11	356.34
CHELTENHAM	CLH	38.70	-76.80	51.30	283.20	1980.0	40.06	352.24	1980.0	38.04	353.62	1980.0	39.23	356.43
PRUHONICE	PRU	49.98	14.55	40.02	14.55	1980.0	40.36	98.43	1980.0	43.28	90.93	1980.0	44.64	91.03
CARROLLTON	CAX	39.37	-93.47	50.63	266.53	1980.0	40.39	332.14	1980.0	39.02	330.53	1980.0	39.54	332.90
FREDERICKSBURG	FRD	38.20	-77.37	51.80	282.63	1980.0	40.58	351.58	1980.0	38.55	352.76	1980.0	39.71	355.56
BELOIT	BLT	39.48	-98.13	50.52	261.87	1980.0	40.75	326.63	1980.0	39.77	324.53	1980.0	40.13	326.74
KAZAN	KZN	55.83	48.85	34.17	48.85	1980.0	40.76	131.37	1980.0	38.27	121.28	1980.0	38.95	122.56
BOULDER	BOU	40.13	-105.23	49.87	254.77	1980.0	40.96	318.24	1980.0	40.51	315.70	1980.0	40.74	317.71
BUDKOV	BDV	49.07	14.02	40.93	14.02	1980.0	41.12	97.51	1980.0	44.23	90.24	1980.0	45.68	90.32
BALDWIN	BAL	38.78	-95.17	51.22	264.83	1980.0	41.14	330.25	1980.0	39.91	328.37	1980.0	40.40	330.69
BURLINGTON	BRT	39.28	-102.18	50.72	257.82	1980.0	41.41	321.97	1980.0	40.79	319.58	1980.0	41.05	321.64

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FURSTENFELDBRUCK	FUR	48.17	11.28	41.83	11.28	1980.0	41.45	94.48	1980.0	45.01	87.78	1980.0	46.63	87.79
ARTI	ARS	56.43	58.57	33.57	58.57	1980.0	41.52	139.57	1980.0	37.61	130.10	1980.0	38.42	131.67
SVERDLOVSK	SVD	56.73	61.07	33.27	61.07	1980.0	41.54	141.70	1980.0	37.30	132.44	1980.0	38.14	134.06
CLIMAX	CLI	39.37	-106.18	50.63	253.82	1980.0	41.83	317.35	1980.0	41.52	314.80	1980.0	41.72	316.74
LEADVILLE	LDV	39.28	-106.28	50.72	253.72	1980.0	41.93	317.26	1980.0	41.64	314.70	1980.0	41.84	316.64
CHATONNAYE	CTE	46.67	6.83	43.33	6.83	1980.0	42.01	89.50	1980.0	46.22	83.77	1980.0	48.22	83.72
TEVRIZ	TEV	57.50	72.40	32.50	72.40	1980.0	42.02	150.97	1980.0	36.44	143.33	1980.0	37.48	144.95
LVOV	LVV	49.90	23.75	40.10	23.75	1980.0	42.19	106.96	1980.0	43.96	98.42	1980.0	44.99	98.78
PRICE	PCU	39.62	-110.78	50.38	249.22	1980.0	42.23	312.07	1980.0	42.27	309.44	1980.0	42.39	311.27
WIEN-KOBENZL	WIK	48.27	16.32	41.73	16.32	1980.0	42.33	99.34	1980.0	44.69	91.86	1980.0	46.70	92.01
KIEV	KIV	50.72	30.30	39.28	30.30	1980.0	42.62	113.25	1980.0	43.35	104.07	1980.0	44.16	104.70
NAGYCENK	NCK	47.63	16.72	42.37	16.72	1980.0	43.02	99.44	1980.0	46.06	92.02	1980.0	47.46	92.17
ADAK	ADA	51.30	-176.65	38.70	183.35	1980.0	43.04	241.60	1980.0	43.53	244.04	1980.0	43.83	244.97
HURBANOVO	HRB	47.87	18.18	42.13	18.18	1980.0	43.08	100.92	1980.0	45.90	93.28	1980.0	47.22	93.47
O GYALLA	OGY	47.87	18.18	42.13	18.18	1980.0	43.08	100.92	1980.0	45.90	93.28	1980.0	47.22	93.47
BUDAKESZI	BUZ	47.52	18.90	42.48	18.90	1980.0	43.55	101.45	1980.0	46.35	93.78	1980.0	47.64	94.00
TIHANY	THY	46.90	17.90	43.10	17.90	1980.0	43.95	100.25	1980.0	46.97	92.80	1980.0	48.35	92.99
TOMSK	TMK	56.47	84.93	33.53	84.93	1980.0	44.04	160.64	1980.0	37.35	155.48	1980.0	38.66	157.06
TULSA	TUL	35.90	-95.78	54.10	264.22	1980.0	44.06	330.06	1980.0	43.07	327.96	1980.0	43.50	330.18
LOGRONO	LGR	42.45	-2.50	47.55	357.50	1980.0	44.25	78.46	1980.0	49.78	75.12	1980.0	52.87	75.10
MONTE CAPELLINO	MCP	44.55	8.95	45.45	8.95	1980.0	44.46	90.71	1980.0	48.86	84.88	1980.0	50.96	84.89
GENOVA	GEN	44.55	8.95	45.45	8.95	1980.0	44.46	90.71	1980.0	48.86	84.88	1980.0	50.96	84.89
ROBURENT	ROB	44.30	7.88	45.70	7.88	1980.0	44.49	89.56	1980.0	49.04	83.94	1980.0	51.23	83.94
CASTELLACCIO	CAO	44.43	8.93	45.57	8.93	1980.0	44.57	90.64	1980.0	49.00	84.83	1980.0	51.11	84.84
SAO MIGUEL	SMG	37.77	-25.65	52.23	334.35	1980.0	44.70	52.30	1980.0	49.86	54.96	1980.0	54.19	55.65
PETROPAVLOVSK	PET	53.10	158.63	36.90	158.63	1980.0	45.02	219.87	1980.0	43.44	224.80	1980.0	44.03	225.48
POLA	POL	44.87	13.85	45.13	13.85	1980.0	45.11	95.59	1980.0	48.94	88.97	1980.0	50.71	89.05
COIMBRA	COI	40.22	-8.42	49.78	351.58	1980.0	45.29	71.55	1980.0	51.36	69.82	1980.0	55.11	69.90
ESPANOLA	EPN	35.82	-106.07	54.18	253.93	1980.0	45.32	318.33	1980.0	45.30	315.74	1980.0	45.45	317.65
NOVOSIBIRSK	NVS	55.03	82.90	34.97	82.90	1980.0	45.33	158.78	1980.0	38.77	153.35	1980.0	40.08	154.97
CASTLE ROCK	CRC	37.23	-122.13	52.77	237.87	1980.0	46.36	300.28	1980.0	47.23	298.10	1980.0	47.23	299.57
EBRO	EBR	40.82	0.50	49.18	0.50	1980.0	46.41	80.91	1980.0	52.19	77.11	1980.0	55.33	77.10
TOLEDO	TOL	39.88	-4.05	50.12	355.95	1980.0	46.44	75.95	1980.0	52.59	73.23	1980.0	56.18	73.26
ODESSA	ODE	46.78	30.88	43.22	30.88	1980.0	46.51	112.23	1980.0	47.59	103.66	1980.0	48.50	104.35
GROCKA	GCK	44.63	20.77	45.37	20.77	1980.0	46.69	102.08	1980.0	49.64	94.60	1980.0	51.05	94.93
DALLAS	DAL	32.98	-96.75	57.02	263.25	1980.0	47.05	329.44	1980.0	46.42	327.12	1980.0	46.74	329.26
L AQUILA	AQU	42.38	13.32	47.62	13.32	1980.0	47.41	94.14	1980.0	51.73	87.92	1980.0	53.79	88.03
SURLARI	SUA	44.68	26.25	45.32	26.25	1980.0	47.68	107.22	1980.0	49.79	99.24	1980.0	50.94	99.78
LA MADDALENA	LMD	41.23	9.40	48.77	9.40	1980.0	47.75	89.92	1980.0	52.76	84.42	1980.0	55.21	84.48
MT WILSON	MWC	34.22	-118.07	55.78	241.93	1980.0	48.64	305.48	1980.0	49.54	303.24	1980.0	49.53	304.79

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
SIMFEROPOL	SIM	44.83	34.07	45.17	34.07	1980.0	48.97	114.45	1980.0	49.78	106.05	1980.0	50.61	106.92
IRKUTSK	IRT	52.27	104.27	37.73	104.27	1980.0	49.01	175.69	1980.0	41.72	174.97	1980.0	43.33	176.18
SAN FERNANDO	SFS	36.47	-6.20	53.53	353.80	1980.0	49.34	72.64	1980.0	56.20	70.73	1980.0	60.76	70.83
CAPRI	CPI	40.55	14.22	49.45	14.22	1980.0	49.35	94.38	1980.0	53.98	88.26	1980.0	56.12	88.42
PANAGYURISHTE	PAG	42.52	24.18	47.48	24.18	1980.0	49.37	104.54	1980.0	52.17	97.02	1980.0	53.50	97.52
TUCSON	TUC	32.25	-110.83	57.75	249.17	1980.0	49.49	313.84	1980.0	50.12	311.36	1980.0	50.18	313.09
KARAGANDA	KGD	49.82	73.08	40.18	73.08	1980.0	49.66	149.76	1980.0	44.02	143.27	1980.0	45.27	145.02
ALMERIA	ALM	36.85	-2.47	53.15	357.53	1980.0	49.68	76.58	1980.0	56.44	73.82	1980.0	60.63	73.87
ISTANBUL-KANDILL	ISK	41.07	29.07	48.93	29.07	1980.0	51.70	108.63	1980.0	53.91	101.04	1980.0	55.04	101.72
KHABAROVSK	KHB	48.48	135.07	41.52	135.07	1980.0	51.92	201.24	1980.0	47.30	205.44	1980.0	48.50	206.07
AVERROES	AVE	33.30	-7.42	56.70	352.58	1980.0	52.20	70.45	1980.0	59.76	69.12	1980.0	65.39	69.27
NOVOKAZALINSK	NKK	45.77	62.12	44.23	62.12	1980.0	52.41	139.55	1980.0	48.30	132.32	1980.0	49.32	134.05
YUZHNO SAKHALINS	YSS	46.95	142.72	43.05	142.72	1980.0	52.82	207.92	1980.0	49.37	212.27	1980.0	50.36	212.95
ULAN BATOR	UBA	47.85	106.75	42.15	106.75	1980.0	53.46	177.63	1980.0	46.22	177.38	1980.0	47.96	178.57
TBILISI	TFS	42.08	44.70	47.92	44.70	1980.0	53.47	123.24	1980.0	52.62	115.33	1980.0	53.33	116.68
PENDELI	PEG	38.05	23.87	51.95	23.87	1980.0	53.64	102.81	1980.0	57.32	96.01	1980.0	58.92	96.53
KZIL-AGACH	KZA	45.37	78.73	44.63	78.73	1980.0	54.59	153.76	1980.0	48.56	148.78	1980.0	49.99	150.49
CANARIAS	TEN	28.48	-16.28	61.52	343.72	1980.0	55.34	59.99	1980.0	63.26	60.95	1980.0		
SANTA CRUZ	SZT	28.48	-16.28	61.52	343.72	1980.0	55.34	59.99	1980.0	63.26	60.95	1980.0		
MEMAMBETSU	MMB	43.90	144.20	46.10	144.20	1980.0	55.70	209.70	1980.0	52.55	213.70	1980.0	53.53	214.34
HAVANA	HVN	22.97	-82.15	67.03	277.85	1980.0	55.97	346.94	1980.0	54.53	345.48	1980.0		
ALMA ATA	AAA	43.25	76.92	46.75	76.92	1980.0	56.53	151.88	1980.0	50.79	146.92	1980.0	52.19	148.67
VLADIVOSTOK	VLA	43.68	132.17	46.32	132.17	1980.0	56.90	199.36	1980.0	51.96	202.67	1980.0	53.31	203.44
TASHKENT	TKT	41.33	69.62	48.67	69.62	1980.0	57.68	145.19	1980.0	52.81	139.62	1980.0	54.07	141.40
ASHKHABAD	ASH	37.95	58.10	52.05	58.10	1980.0	59.56	134.30	1980.0	56.59	128.10	1980.0	57.49	129.81
KSARA	KSA	33.82	35.88	56.18	35.88	1980.0	60.00	112.96	1980.0	62.08	106.32	1980.0	63.07	107.40
TEOLOYUCAN	TEO	19.75	-99.18	70.25	260.82	1980.0	60.44	328.62	1980.0	61.29	326.20	1980.0		
VIEQUES	VQS	18.15	-65.45	71.85	294.55	1980.0	60.58	5.41	1980.0	58.53	6.45	1980.0		
SAN JUAN	SJG	18.12	-66.15	71.88	293.85	1980.0	60.59	4.65	1980.0	58.53	5.54	1980.0		
TEHRAN	TEH	35.73	51.38	54.27	51.38	1980.0	60.75	127.73	1980.0	59.24	121.34	1980.0	59.95	122.95
MIZUSAWA	MIZ	39.02	141.08	50.98	141.08	1980.0	60.84	207.69	1980.0	57.34	210.82	1980.0	58.44	211.58
BEIJING	BJI	40.03	116.17	49.97	116.17	1980.0	61.23	185.75	1980.0	54.64	186.67	1980.0	56.41	187.74
ONAGAWA	ONW	38.43	141.47	51.57	141.47	1980.0	61.39	208.12	1980.0	57.96	211.14	1980.0	59.06	211.92
MODIIM	MOD	31.90	35.00	58.10	35.00	1980.0	61.71	111.65	1980.0	64.41	105.39	1980.0	65.44	106.42
NITSANIM	NSM	31.73	34.60	58.27	34.60	1980.0	61.81	111.24	1980.0	64.63	105.00	1980.0	65.69	106.02
AMATSIA	AMT	31.55	34.92	58.45	34.92	1980.0	62.04	111.49	1980.0	64.82	105.28	1980.0	65.87	106.32
HELWAN	HLW	29.87	31.33	60.13	31.33	1980.0	63.02	107.69	1980.0	66.91	101.81	1980.0		
MISALLAT	MLT	29.52	30.90	60.48	30.90	1980.0	63.28	107.20	1980.0	67.36	101.38	1980.0		
KAKIOKA	KAK	36.23	140.18	53.77	140.18	1980.0	63.69	207.25	1980.0	60.08	209.88	1980.0	61.26	210.71
TOKYO	TOK	35.75	139.72	54.25	139.72	1980.0	64.21	206.90	1980.0	60.53	209.42	1980.0	61.74	210.27

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
KANOZAN	KNZ	35.25	139.97	54.75	139.97	1980.0	64.68	207.19	1980.0	61.05	209.63	1980.0	62.26	210.49
TAMANRASSET	TAM	22.80	5.53	67.20	5.53	1980.0	64.92	80.88	1980.0	74.86	78.14	1980.0		
MIYAZU	MIU	35.32	135.12	54.68	135.12	1980.0	65.02	202.83	1980.0	60.62	205.08	1980.0	62.03	205.99
LANZHOU	LZH	36.10	103.83	53.90	103.83	1980.0	65.17	174.87	1980.0	58.49	173.91	1980.0	60.33	175.19
MIDWAY	MDY	28.22	-177.37	61.78	182.63	1980.0	65.59	247.75	1980.0	65.13	247.59	1980.0		
SIMOSATO	SSO	33.57	135.93	56.43	135.93	1980.0	66.69	203.74	1980.0	62.49	205.75	1980.0	63.85	206.68
HACHIJO	HJJ	33.13	139.80	56.87	139.80	1980.0	66.81	207.29	1980.0	63.16	209.37	1980.0	64.42	210.27
HATIZYO	HTY	33.07	139.83	56.93	139.83	1980.0	66.86	207.32	1980.0	63.22	209.39	1980.0	64.48	210.30
ASO	ASO	32.88	131.02	57.12	131.02	1980.0	67.74	199.36	1980.0	62.80	201.02	1980.0	64.38	201.99
QUETTA	QUE	30.18	66.95	59.82	66.95	1980.0	68.40	140.97	1980.0	64.80	136.99	1980.0	65.92	138.72
HONOLULU	HON	21.32	-158.00	68.68	202.00	1980.0	68.64	267.97	1980.0	68.27	267.56	1980.0		
M BOUR	MBO	14.40	-16.97	75.60	343.03	1980.0	69.08	56.40	1980.0	79.29	57.69	1980.0		
COSTA RICA	SNJ	9.92	-83.97	80.08	276.03	1980.0	69.09	345.69	1980.0	68.68	343.66	1980.0		
KANOYA	KNY	31.42	130.88	58.58	130.88	1980.0	69.20	199.36	1980.0	64.27	200.79	1980.0	65.88	201.78
SABHAWALA	SAB	30.33	77.80	59.67	77.80	1980.0	69.44	150.95	1980.0	64.78	147.98	1980.0	66.19	149.51
LUKIAPANG	LKP	31.32	121.03	58.68	121.03	1980.0	69.80	190.40	1980.0	63.86	191.00	1980.0	65.67	192.14
ZIKAWEI	ZKW	31.22	121.43	58.78	121.43	1980.0	69.88	190.77	1980.0	63.98	191.39	1980.0	65.78	192.53
SHESHAN	SSH	31.10	121.18	58.90	121.18	1980.0	70.01	190.55	1980.0	64.09	191.14	1980.0	65.90	192.27
CHICHIJIMA	CBI	27.10	142.20	62.90	142.20	1980.0	72.57	210.19	1980.0	69.36	211.32	1980.0		
JAIPUR	JAI	26.92	75.78	63.08	75.78	1980.0	72.63	148.68	1980.0	68.56	145.98	1980.0		
FUQUENE	FUQ	5.47	-73.73	84.53	286.27	1980.0	73.23	356.55	1980.0	71.52	355.35	1980.0		
PARAMARIBO	PAB	5.82	-55.22	84.18	304.78	1980.0	73.27	15.79	1980.0	72.13	17.00	1980.0		
FREETOWN	FTN	8.47	-13.22	81.53	346.78	1980.0	75.54	59.15	1980.0	87.22	59.71	1980.0		
LUNPING	LNP	25.00	121.17	65.00	121.17	1980.0	76.11	190.80	1980.0	70.47	190.72	1980.0		
UJJAIN	UJJ	23.02	75.78	66.98	75.78	1980.0	76.51	148.22	1980.0	72.96	145.98	1980.0		
ZARIA	ZAR	11.15	7.65	78.85	7.65	1980.0	76.73	80.47	1980.0	89.32	78.78	1980.0		
KONTAGORA	KNT	10.40	5.45	79.60	5.45	1980.0	77.05	78.15	1980.0	89.90	76.67	1980.0		
WAKE ISLAND	WKE	19.20	166.70	70.80	166.70	1980.0	77.18	234.42	1980.0	75.91	234.08	1980.0		
CHA PA	CPA	22.35	103.83	67.65	103.83	1980.0	78.92	174.57	1980.0	73.74	173.45	1980.0		
HONG KONG	HKC	22.20	114.20	67.80	114.20	1980.0	79.09	184.35	1980.0	73.50	183.70	1980.0		
KUMASI	KUM	6.70	-1.57	83.30	358.43	1980.0	79.35	70.46	1980.0	92.65	69.79	1980.0		
IBADAN	IBD	7.43	3.90	82.57	3.90	1980.0	79.66	76.03	1980.0	93.03	74.90	1980.0		
TATUOCA	TTB	-1.20	-48.52	91.20	311.48	1980.0	80.70	22.19	1980.0			1980.0		
ALIBAG	ABG	18.38	72.52	71.62	72.52	1980.0	80.76	144.58	1980.0	78.17	142.72	1980.0		
HYDERABAD	HYB	17.42	78.55	72.58	78.55	1980.0	82.35	150.24	1980.0	79.51	148.75	1980.0		
TALARA	TAL	-4.63	-81.30	94.63	278.70	1980.0	83.51	349.08	1980.0			1980.0		
EUSEBIO	EUS	-3.87	-38.42	93.87	321.58	1980.0	84.27	32.09	1980.0			1980.0		
PALMYRA ISLAND	PAI	5.88	-162.08	84.12	197.92	1980.0	84.56	267.21	1980.0			1980.0		
MOCA	MFP	3.35	8.67	86.65	8.67	1980.0	84.58	79.94	1980.0			1980.0		
BAGUIO	BAG	16.42	120.60	73.58	120.60	1980.0	84.70	190.60	1980.0	79.53	189.89	1980.0		

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ADDIS ABABA	AAE	9.03	38.77	80.97	38.77	1980.0	84.82	110.51	1980.0			1980.0		
BANGUI	BNG	4.43	18.57	85.57	18.57	1980.0	85.46	89.87	1980.0	98.12	88.47	1980.0		
CHICLAYO	CCL	-6.80	-79.80	96.80	280.20	1980.0	85.63	350.65	1980.0			1980.0		
GUAM	GUA	13.58	144.87	76.42	144.87	1980.0	85.73	214.26	1980.0			1980.0		
FANNING	FAN	3.90	-159.38	86.10	200.62	1980.0	85.97	270.24	1980.0			1980.0		
ANTIPOLO	ANO	14.60	121.17	75.40	121.17	1980.0	86.50	191.22	1980.0			1980.0		
MANILA	MAN	14.58	120.98	75.42	120.98	1980.0	86.53	191.04	1980.0			1980.0		
MUNTINLUPA	MUT	14.37	121.02	75.63	121.02	1980.0	86.73	191.09	1980.0			1980.0		
BANGKOK	BKK	13.72	100.57	76.28	100.57	1980.0	87.46	171.23	1980.0			1980.0		
CHIMBOTE	CMB	-9.10	-78.60	99.10	281.40	1980.0	87.89	351.91	1980.0			1980.0		
MAJURO	MJR	7.08	171.38	82.92	171.38	1980.0	88.35	241.03	1980.0			1980.0		
ANNAMALAINAGAR	ANN	11.22	79.42	78.78	79.42	1980.0	88.61	150.45	1980.0			1980.0		
KODAIKANAL	KOD	10.23	77.47	79.77	77.47	1980.0	89.40	148.45	1980.0			1980.0		
JARVIS ISLAND	JRV	-0.38	-160.03	90.38	199.97	1980.0	90.30	270.45	1980.0			1980.0		
ETTAYAPURAM	ETT	9.00	78.00	81.00	78.00	1980.0	90.67	148.84	1980.0			1980.0		
CEBU	CCP	10.30	123.90	79.70	123.90	1980.0	90.68	194.08	1980.0			1980.0		
HUANCAYO	HUA	-12.05	-75.33	102.05	284.67	1980.0	90.77	355.19	1980.0			1980.0		
TRIVANDRUM	TRD	8.48	76.95	81.52	76.95	1980.0	91.08	147.75	1980.0			1980.0		
CUZCO	CUS	-13.53	-71.97	103.53	288.03	1980.0	92.21	358.48	1980.0			1980.0		
MOGADISCIO	MOG	2.03	45.35	87.97	45.35	1980.0	92.90	115.68	1980.0			1980.0		
KOROR	KOR	7.33	134.50	82.67	134.50	1980.0	92.95	204.73	1980.0			1980.0		
BINZA	BIN	-4.38	15.27	94.38	15.27	1980.0	93.45	84.91	1980.0			1980.0		
DAVAO	DAV	7.08	125.58	82.92	125.58	1980.0	93.81	195.90	1980.0			1980.0		
LWIRO	LWI	-2.25	28.80	92.25	28.80	1980.0	94.01	98.60	1980.0			1980.0		
YAUCA	YAU	-15.53	-74.67	105.53	285.33	1980.0	94.24	355.88	1980.0			1980.0		
NAIROBI	NAI	-1.32	36.82	91.32	36.82	1980.0	94.63	106.67	1980.0			1980.0		
CHARACATO	ARE	-16.47	-71.48	106.47	288.52	1980.0	95.15	358.97	1980.0	93.25	358.32	1980.0		
LA PAZ	LPB	-16.50	-68.10	106.50	291.90	1980.0	95.19	2.22	1980.0	93.01	1.45	1980.0		
PENANG	PNN	5.50	100.40	84.50	100.40	1980.0	95.68	170.81	1980.0			1980.0		
LUANDA	LUA	-8.92	13.17	98.92	13.17	1980.0	97.49	81.96	1980.0	111.30	81.23	1980.0		
DAR ES SALAAM	DRS	-6.78	39.22	96.78	39.22	1980.0	100.44	108.00	1980.0	109.11	108.61	1980.0		
LA QUIACA	LQA	-22.10	-65.60	112.10	294.40	1980.0	100.82	4.54	1980.0	98.32	3.78	1980.0		
VASSOURAS	VSS	-22.40	-43.65	112.40	316.35	1980.0	102.22	25.21	1980.0	102.64	22.50	1980.0		
HOLLANDIA	HNA	-2.57	140.52	92.57	140.52	1980.0	102.25	211.70	1980.0	99.92	210.06	1980.0		
RIO DE JANEIRO	RDJ	-22.92	-43.18	112.92	316.82	1980.0	102.77	25.60	1980.0	103.27	22.80	1980.0		
SAN JOSE	SJB	-23.22	-45.85	113.22	314.15	1980.0	102.86	23.07	1980.0	102.64	20.44	1980.0		
ELIZABETHVILLE	ELI	-11.63	27.42	101.63	27.42	1980.0	102.94	95.37	1980.0	114.66	95.62	1980.0		
KARAVIA	KVA	-11.63	27.42	101.63	27.42	1980.0	102.94	95.37	1980.0	114.66	95.62	1980.0		
TAHITI	TAH	-17.55	-149.62	107.55	210.38	1980.0	105.11	284.04	1980.0	106.40	282.98	1980.0		
PAMATAI	PPT	-17.57	-149.57	107.57	210.43	1980.0	105.12	284.09	1980.0	106.42	283.04	1980.0		

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
APIA	API	-13.80	-171.78	103.80	188.22	1980.0	105.75	261.58	1980.0	105.36	260.42	1980.0		
KUYPER	KUY	-6.03	106.73	96.03	106.73	1980.0	107.34	177.02	1980.0	105.73	176.63	1980.0		
TANGERANG	TNG	-6.17	106.63	96.17	106.63	1980.0	107.47	176.91	1980.0	105.89	176.52	1980.0		
BATAVIA	BTV	-6.18	106.83	96.18	106.83	1980.0	107.49	177.12	1980.0	105.88	176.72	1980.0		
EASTER ISLAND	EIC	-27.17	-109.42	117.17	250.58	1980.0	108.18	323.88	1980.0	110.85	324.71	1980.0		
PORT MORESBY	PMG	-9.40	147.15	99.40	147.15	1980.0	108.28	219.30	1980.0	107.11	217.61	1980.0		
TSUMEB	TSU	-19.22	17.70	109.22	17.70	1980.0	108.46	84.24	1980.0	120.60	83.43	1980.0		
PILAR	PIL	-31.67	-63.88	121.67	296.12	1980.0	110.42	5.93	1980.0	107.43	5.34	1980.0	107.42	5.69
TANANARIVE	TAN	-18.92	47.55	108.92	47.55	1980.0	113.89	113.96	1980.0	120.15	114.80	1980.0		
LAS ACACIAS	LAS	-35.00	-57.68	125.00	302.32	1980.0	113.93	11.39	1980.0	111.01	9.99	1980.0	111.32	10.05
MAURITIUS	MRI	-20.08	57.55	110.08	57.55	1980.0	116.75	123.98	1980.0	120.93	124.12	1980.0		
PLAISANCE	PLS	-20.43	57.67	110.43	57.67	1980.0	117.11	124.04	1980.0	121.27	124.13	1980.0		
MAPUTO	LMM	-25.92	32.58	115.92	32.58	1980.0	117.92	97.31	1980.0	126.49	97.31	1980.0		
TRELEW	TRW	-43.25	-65.32	133.25	294.68	1980.0	121.97	4.37	1980.0	118.39	4.94	1980.0	118.10	5.19
CAPE GOOD HOPE	CGH	-33.93	18.48	123.93	18.48	1980.0	122.97	81.41	1980.0	131.04	79.12	1980.0	131.71	80.23
CAPE TOWN	CTO	-33.95	18.47	123.95	18.47	1980.0	122.99	81.39	1980.0	131.05	79.10	1980.0	131.73	80.21
HERMANUS	HER	-34.42	19.23	124.42	19.23	1980.0	123.59	81.99	1980.0	131.46	79.71	1980.0	132.12	80.80
BRISBANE	BRS	-27.53	152.92	117.53	152.92	1980.0	125.44	228.32	1980.0	126.56	226.68	1980.0		
WATHEROO	WAT	-30.30	115.90	120.30	115.90	1980.0	131.54	187.28	1980.0	132.49	184.92	1980.0	132.67	186.05
MAGALLANES	MGS	-53.20	-70.90	143.20	289.10	1980.0	131.88	359.61	1980.0	127.99	2.50	1980.0	127.49	2.91
GNANGARA	GNA	-31.78	115.95	121.78	115.95	1980.0	133.02	187.40	1980.0	134.19	184.84	1980.0	134.33	185.97
CANBERRA	CAN	-35.30	149.00	125.30	149.00	1980.0	133.66	225.74	1980.0	135.65	223.95	1980.0	135.73	225.56
SOUTH GEORGIA	SGE	-54.28	-36.48	144.28	323.52	1980.0	134.51	27.19	1980.0	131.74	24.31	1980.0	132.41	24.26
TOOLANGI	TOO	-37.53	145.47	127.53	145.47	1980.0	136.34	222.32	1980.0	138.53	220.27	1980.0	138.61	221.91
AMBERLEY	AML	-43.15	172.72	133.15	172.72	1980.0	137.34	253.80	1980.0	140.06	254.12	1980.0	139.91	255.83
EYREWELL	EYR	-43.42	172.35	133.42	172.35	1980.0	137.67	253.52	1980.0	140.42	253.84	1980.0	140.27	255.56
CHRISTCHURCH	CHR	-43.53	172.62	133.53	172.62	1980.0	137.72	253.84	1980.0	140.48	254.20	1980.0	140.33	255.92
MARION ISLAND	MRN	-46.85	37.87	136.85	37.87	1980.0	139.24	95.90	1980.0	141.60	91.88	1980.0	141.96	91.98
LAUDER	LAU	-45.03	169.68	135.03	169.68	1980.0	139.72	251.36	1980.0	142.65	251.70	1980.0	142.50	253.47
ORCADAS DEL SUR	ORC	-60.73	-44.78	150.73	315.22	1980.0	140.25	19.31	1980.0	136.18	19.13	1980.0	136.32	19.19
PORT ALFRED	CZT	-46.43	51.87	136.43	51.87	1980.0	141.51	110.57	1980.0	142.98	105.46	1980.0	143.31	105.34
GONZALES VIDELA	GVD	-64.82	-62.85	154.82	297.15	1980.0	143.57	5.41	1980.0	139.22	9.25	1980.0	138.82	9.59
ARGENTINE ISLAND	AIA	-65.20	-64.30	155.20	295.70	1980.0	143.93	4.35	1980.0	139.60	8.52	1980.0	139.18	8.89
CAMPBELL ISLAND	CAI	-52.50	169.20	142.50	169.20	1980.0	146.97	254.44	1980.0	150.46	256.09	1980.0	150.29	258.05
PORT-AUX-FRANCAI	KGL	-49.35	70.20	139.35	70.20	1980.0	147.43	129.83	1980.0	148.11	121.17	1980.0	148.53	121.22
MACQUARIE ISLAND	MCQ	-54.50	158.95	144.50	158.95	1980.0	150.75	244.41	1980.0	154.64	245.28	1980.0	154.55	247.31
HEARD ISLAND	HII	-53.03	73.37	143.03	73.37	1980.0	151.48	131.91	1980.0	151.77	121.26	1980.0	152.17	121.12
SANAE	SNA	-70.30	-2.35	160.30	357.65	1980.0	153.95	45.40	1980.0	150.03	42.89	1980.0	149.93	43.44
EIGHTS	EGS	-75.23	-77.17	165.23	282.83	1980.0	153.96	356.08	1980.0	150.00	4.98	1980.0	149.55	5.73
NORWAY STATION	NWS	-70.50	-2.53	160.50	357.47	1980.0	154.11	45.09	1980.0	150.15	42.66	1980.0	150.04	43.21

OBSERVATORY	CODE	GEOGRAPHIC COORDINATES LAT	LONG	CO-LAT	E LONG	GEOMAGNETIC MODEL COORDINATES DIPOLE YEAR	CO-LAT	E LONG	GUSTAFFSSON YEAR	CO-LAT	E LONG	TSYGANENKO YEAR	CO-LAT	E LONG
LAZAREV	LZV	-69.97	12.90	159.97	12.90	1980.0	155.98	56.69	1980.0	152.24	52.48	1980.0	152.06	52.91
HALLEY BAY	HBA	-75.52	-26.60	165.52	333.40	1980.0	156.06	25.25	1980.0	151.19	27.70	1980.0	150.96	28.26
NOVOLAZAREVSKAYA	NVL	-70.77	11.82	160.77	11.82	1980.0	156.51	54.94	1980.0	152.59	51.03	1980.0	152.38	51.51
ROI BAUDOUIN	RBD	-70.43	24.30	160.43	24.30	1980.0	158.33	64.67	1980.0	154.44	59.12	1980.0	154.19	59.35
SYOWA STATION	SYO	-69.00	39.58	159.00	39.58	1980.0	159.96	79.38	1980.0	156.32	71.01	1980.0	156.09	70.78
MOLODEZHNAYA	MOL	-67.57	45.87	157.57	45.87	1980.0	159.97	87.36	1980.0	156.69	77.60	1980.0	156.48	77.13
BYRD STATION	BYR	-80.00	-119.50	170.00	240.50	1980.0	160.62	336.71	1980.0	158.34	352.47	1980.0	157.88	353.70
MAWSON	MAW	-67.60	62.88	157.60	62.88	1980.0	163.31	105.08	1980.0	160.34	90.21	1980.0	160.22	89.21
LITTLE AMERICA	LAA	-78.18	-162.20	168.18	197.80	1980.0	163.95	312.23	1980.0	164.00	333.39	1980.0	163.71	334.86
LENINGRADSKAYA	LEN	-69.50	159.40	159.50	159.40	1980.0	164.33	261.97	1980.0	168.66	274.47	1980.0	168.45	276.90
CAPE HALLETT	HLL	-72.32	170.22	162.32	170.22	1980.0	164.47	278.80	1980.0	167.70	296.83	1980.0	167.42	298.79
DUMONT DURVILLE	DRV	-66.67	140.02	156.67	140.02	1980.0	165.33	232.38	1980.0	170.57	231.98	1980.0	170.62	235.04
MIRNY	MIR	-66.55	93.02	156.55	93.02	1980.0	167.02	149.66	1980.0	166.93	122.92	1980.0	167.20	121.69
OASIS	OAS	-66.30	100.72	156.30	100.72	1980.0	167.37	163.53	1980.0	168.57	134.98	1980.0	168.89	134.56
PLATEAU	PTU	-79.25	40.50	169.25	40.50	1980.0	167.53	53.79	1980.0	161.94	50.97	1980.0	161.54	51.08
WILKES	WIL	-66.25	110.58	156.25	110.58	1980.0	167.57	181.85	1980.0	170.40	154.52	1980.0	170.81	155.11
CHARCOT	CTX	-69.38	139.02	159.38	139.02	1980.0	167.94	235.93	1980.0	173.38	238.47	1980.0	173.41	242.31
SOUTH POLE	SPA	-90.00	0.00	180.00	0.00	1980.0	168.68	0.00	1980.0	164.60	12.20	1980.0	163.76	18.22
SCOTT BASE	SBA	-77.85	166.78	167.85	166.78	1980.0	168.80	294.35	1980.0	170.13	325.63	1980.0	169.92	327.15
MCMURDO	MCM	-77.85	166.70	167.85	166.70	1980.0	168.82	294.31	1980.0	170.15	325.64	1980.0	169.94	327.15
PIONERSKAYA	PIO	-69.73	95.50	159.73	95.50	1980.0	170.33	149.88	1980.0	169.67	114.78	1980.0	169.83	113.01
VOSTOK	VOS	-78.45	106.87	168.45	106.87	1980.0	179.41	111.76	1980.0	173.69	55.73	1980.0	173.33	53.84

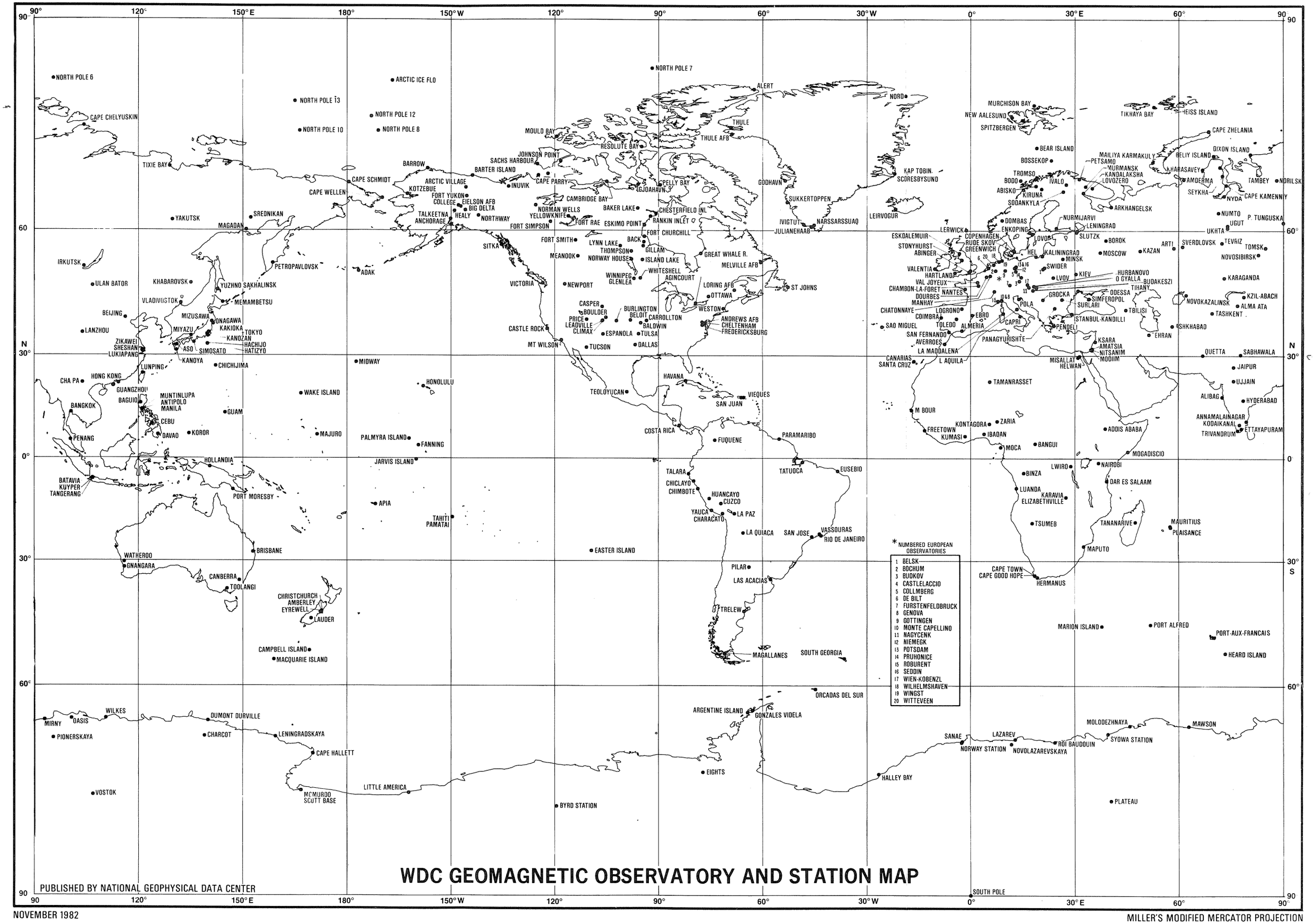
TABLE 3. ALTERNATE OBSERVATORY NAME LIST

OTHER NAMES BY WHICH OBSERVATORY IS KNOWN	OBSERVATORY NAMES USED IN THIS CATALOG
Amundsen Scott	South Pole
Arctica I (NP-6)	North Pole 6
Arctica II (NP-7)	North Pole 7
Arctica (NP-8)	North Pole 8
Arctica (NP-10)	North Pole 10
Arequipa	Characato
Athens	Pendeli
Azores	San Miguel
Baudouin	Roi Baudouin
Centro Geoficiso	Havana
Churchill	Fort Churchill
Cuba	Havana
Dehra Dun	Sabhawala
Dikson	Dixon Island
Druzhnaya	Heiss Island
Dusheti	Tbilisi
Easter Island	Isla De Pascua
Fanning	Fanning Island
Genova	Monte Capellino
Goose Bay	Melville AFB
Gornotayezhnaya	Vladivostok
Hawaii	Honolulu
Kamchatka	Petropavlovsk
Karavia	Elizabethville
Kerguelen	Port-aux-Francais
Kinshasa-Binza	Binza
Krasnaya Pakhra	Moscow
Leopoldville	Binza
Launda Belas	Launda
Ny-Alesund	New Aalesund
Patrony	Irkutsk
Pleshnitzi	Minsk
Point Barrow	Barrow
P. Stekolny	Magadan
Puerto Rico	San Juan
Puerto Rico	Vieques
Red Lake	Leningrad
Reyjavik	Leirvogur
Sanae	Sanae Station
Stepanovka	Odessa
Tortosa	Ebro
Uelen	Cape Wellen
Ussurisk	Vladivostok
Vannovskaya	Ashkhabad
V. Dubrovo	Sverdlovsk
Voyeykovo	Leningrad
Vysokaya	Sverdlovsk
Yangi-Bazar	Tashkent
Zaymishche	Kazan

TABLE 4. REPLACEMENT OBSERVATORIES

MOST RECENT OBSERVATORY	EARLIER OBSERVATORIES
Alibag	*Colaba
Amberley	Christchurch
Castellaccio	Pole
Chambon-la-Foret	Val Joyeux
Dourbes	*Uccle
Dumont d'Urville	Terre Adelie
Elizabethville	*Karavia
Eskdalemuir	*Kew
Fredericksburg	Cheltenham
Gnangara	Watheroo
Hartland	Abinger, previously Greenwich
Hermanus	Cape Town
Heiss Island	Tikhaya Bay
Kakioka	Tokyo
Misallat	Helwan
Muntinlupa	Antipulo, previously Manila
Niemegk	Seddin, previously Potsdam
Ottawa	Agincourt, previously Toronto
Plaisance	Mauritius
Roburent	Monte Capellino
Rude Skov	Copenhagen
Sabhawala	*Dehra Dun
Sanae	Norway Station
San Juan	Vieques
Tangerang	Kuyper, previously Batavia
Tihany	Budakeszi
Witteveen	De Bilt

*WDC-A for Solar-Terrestrial Physics can provide only annual means for these earlier stations


WDC GEOMAGNETIC OBSERVATORY AND STATION MAP
PUBLISHED BY NATIONAL GEOPHYSICAL DATA CENTER
NOVEMBER 1982
MILLER'S MODIFIED MERCATOR PROJECTION
* NUMBERED EUROPEAN OBSERVATORIES
1 BELSK
2 BOCHUM
3 BUDKOV
4 CASTELLACCIO
5 COLLMBERG
6 DE BILT
7 FURSTENFELDBRUCK
8 GENOVA
9 GOTTINGEN
10 MONTE CAPELLINO
11 NAGYCENK
12 NIEMEGK
13 POTSDAM
14 PRUHONICE
15 ROBURENT
16 SEDDIN
17 WIEN-KOBENZL
18 WILHELMSHAVEN
19 WINGST
20 WITTEVEEN
NORTH POLE 6
NORTH POLE 7
NORTH POLE 8
NORTH POLE 10
NORTH POLE 12
NORTH POLE 13
ARCTIC ICE FLO
CAPE CHELYUSKIN
TIXIE BAY
YAKUTSK
MAGADAN
SREDNIKAN
IRKUTSK
ULAN BATOR
KHABAROVSK
YUZHNO SAKHALINSK
VLADIVOSTOK
MEMAMBETSU
BEIJING
LANZHOU
MIZUSAWA
ONAGAWA
KAKIOKA
TOKYO
MIYAZU
KANOZAN
HACHIJO
ZIKAWEI
SHESHAN
LUKIAPANG
ASO
SIMOSATO
HATIZYO
KANOYA
CHICHIJIMA
LUNPING
CHA PA
HONG KONG
GUANGZHOU
BAGUIO
MUNTINLUPA
ANTIPOLO
MANILA
BANGKOK
CEBU
GUAM
PENANG
DAVAO
KOROR
HOLLANDIA
BATAVIA
KUYPER
TANGERANG
PORT MORESBY
BRISBANE
WATHEROO
GNANGARA
CANBERRA
TOOLANGI
CHRISTCHURCH
AMBERLEY
EYREWELL
LAUDER
CAMPBELL ISLAND
MACQUARIE ISLAND
WAKE ISLAND
MAJURO
MIDWAY
HONOLULU
PALMYRA ISLAND
FANNING
JARVIS ISLAND
APIA
TAHITI
PAMATAI
EASTER ISLAND
CAPE SCHMIDT
CAPE WELLEN
BARROW
KOTZEBUE
ARCTIC VILLAGE
FORT YUKON
COLLEGE
EIELSON AFB
BIG DELTA
TALKEETNA
ANCHORAGE
HEALY
NORTHWAY
ADAK
PETROPAVLOVSK
SITKA
MOULD BAY
JOHNSON POINT
SACHS HARBOUR
BARTER ISLAND
INUVIK
CAPE PARRY
RESOLUTE BAY
NORMAN WELLS
YELLOWKNIFE
FORT SIMPSON
FORT RAE
CAMBRIDGE BAY
BAKER LAKE
ESKIMO POINT
FORT SMITH
MEANOOK
LYNN LAKE
THOMPSON
NORWAY HOUSE
BACK
GILLAM
ISLAND LAKE
WHITESHELL
WINNIPEG
GLENLEA
AGINCOURT
VICTORIA
NEWPORT
CASTLE ROCK
MT WILSON
CASPER
BOULDER
PRICE
LEADVILLE
CLIMAX
ESPANOLA
TUCSON
BURLINGTON
BELOIT
CARROLLTON
BALDWIN
TULSA
DALLAS
TEOLOYUCAN
HAVANA
COSTA RICA
TALARA
CHICLAYO
CHIMBOTE
HUANCAYO
CUZCO
YAUCA
CHARACATO
LA PAZ
LA QUIACA
PILAR
LAS ACACIAS
TRELEW
MAGALLANES
SOUTH GEORGIA
ORCADAS DEL SUR
ARGENTINE ISLAND
GONZALES VIDELA
EIGHTS
HALLEY BAY
BYRD STATION
LITTLE AMERICA
MCMURDO
SCOTT BASE
CAPE HALLETT
LENINGRADSKAYA
CHARCOT
DUMONT DURVILLE
WILKES
OASIS
MIRNY
PIONERSKAYA
VOSTOK
SOUTH POLE
ALERT
THULE
THULE AFB
GODHAVN
GJODAHAVN
PELLY BAY
CHESTERFIELD INL
RANKIN INLET
FORT CHURCHILL
GREAT WHALE R.
MELVILLE AFB
LORING AFB
OTTAWA
WESTON
ANDREWS AFB
CHELTENHAM
FREDERICKSBURG
ST JOHNS
VIEQUES
SAN JUAN
PARAMARIBO
FUQUENE
TATUOCA
EUSEBIO
SAN JOSE
VASSOURAS
RIO DE JANEIRO
NORD
KAP TOBIN.
SCORESBYSUND
SUKKERTOPPEN
IVIGTUT
NARSSARSSUAQ
JULIANEHAAB
LEIRVOGUR
MURCHISON BAY
NEW AALESUND
SPITZBERGEN
TIKHAYA BAY
HEISS ISLAND
CAPE ZHELANIA
BEAR ISLAND
BOSSEKOP
MAILIYA KARMAKULY
PETSAMO
MURMANSK
KANDALAKSHA
LOVOZERO
BELIY ISLAND
DIXON ISLAND
KHARASAVEY
AMDERMA
TAMBEY
NORILSK
SEYKHA
NYDA
CAPE KAMENNY
TROMSO
BODO
IVALO
ABISKO
KIRUNA
SODANKYLA
ARKHANGELSK
NUMTO
P. TUNGUSKA
UGUT
UKHTA
NURMIJARVI
LENINGRAD
DOMBAS
ENKOPING
LERWICK
COPENHAGEN
RUDE SKOV
GREENWICH
LOVO
SLUTZK
BOROK
ESKDALEMUIR
STONYHURST
ABINGER
HEL
KALININGRAD
MINSK
MOSCOW
KAZAN
ARTI
SVERDLOVSK
TEVRIZ
TOMSK
NOVOSIBIRSK
VALENTIA
HARTLAND
SWIDER
LVOV
KIEV
HURBANOVO
O GYALLA
BUDAKESZI
TIHANY
KARAGANDA
VAL JOYEUX
CHAMBON-LA-FORET
DOURBES
MANHAY
NANTES
GROCKA
ODESSA
SIMFEROPOL
SURLARI
TBILISI
NOVOKAZALINSK
KZIL-ABACH
ALMA ATA
TASHKENT
CHATONNAYE
LOGRONO
COIMBRA
EBRO
POLA
CAPRI
ISTANBUL-KANDILLI
PENDELI
SHKHABAD
EHRAN
SAO MIGUEL
TOLEDO
ALMERIA
SAN FERNANDO
AVERROES
PANAGYURISHTE
KSARA
AMATSIA
NITSANIM
MODIM
LA MADDALENA
L AQUILA
CANARIAS
SANTA CRUZ
MISALLAT
HELWAN
QUETTA
SABHAWALA
JAIPUR
UJJAIN
TAMANRASSET
ALIBAG
HYDERABAD
M BOUR
KONTAGORA
ZARIA
FREETOWN
KUMASI
IBADAN
ADDIS ABABA
ANNAMALAINAGAR
KODAIKANAL
ETTAYAPURAM
TRIVANDRUM
MOCA
BANGUI
MOGADISCIO
LWIRO
NAIROBI
BINZA
DAR ES SALAAM
LUANDA
KARAVIA
ELIZABETHVILLE
TSUMEB
TANANARIVE
MAURITIUS
PLAISANCE
MAPUTO
CAPE TOWN
CAPE GOOD HOPE
HERMANUS
MARION ISLAND
PORT ALFRED
PORT-AUX-FRANCAIS
HEARD ISLAND
MOLODEZHNAYA
MAWSON
SANAE
LAZAREV
NORWAY STATION
NOVOLAZAREVSKAYA
ROI BAUDOUIN
SYOWA STATION
PLATEAU

V. Representative Examples of Geomagnetic Data

1. Normal Magnetogram

   Analog records of D, H and Z (or X, Y and Z) at a chart speed of 20 millimeters per hour in most cases.

2. Storm Magnetogram

   Analog records of D, H and Z (or X, Y and Z) similar to normal magnetograms but much less sensitive.

3. Rapid-Run Magnetogram

   Analog records of D, H or Z (or X, Y or Z) at chart speeds ranging from 180 to 260 millimeters per hour.

4. Table of Magnetic Hourly Values

   Mean hourly values of D, H and Z (or X, Y and Z) centered on the half-hour in most cases.

5. Table of Magnetic K-Indices

   Three-hourly, quasi-logarithmic measure of changes in intensity of the Earth's magnetic field ranging from 0 for the least active to 9 for the most active periods.

6. Table of Magnetic Q-Indices

   Quarter-hourly range indices from auroral zone observatories on 0 to 9 scale similar to K.

7. Computer Listing of Indices on Magnetic Tape

   A sample of a computer listing showing the geomagnetic indices Kp, Ap, Cp and C9, along with solar rotation number and day, sunspot number and 10-cm solar radio noise flux, from a tape compiled by the European Space Research Organization.

8. Common Scale Magnetograms of Geomagnetic Storms

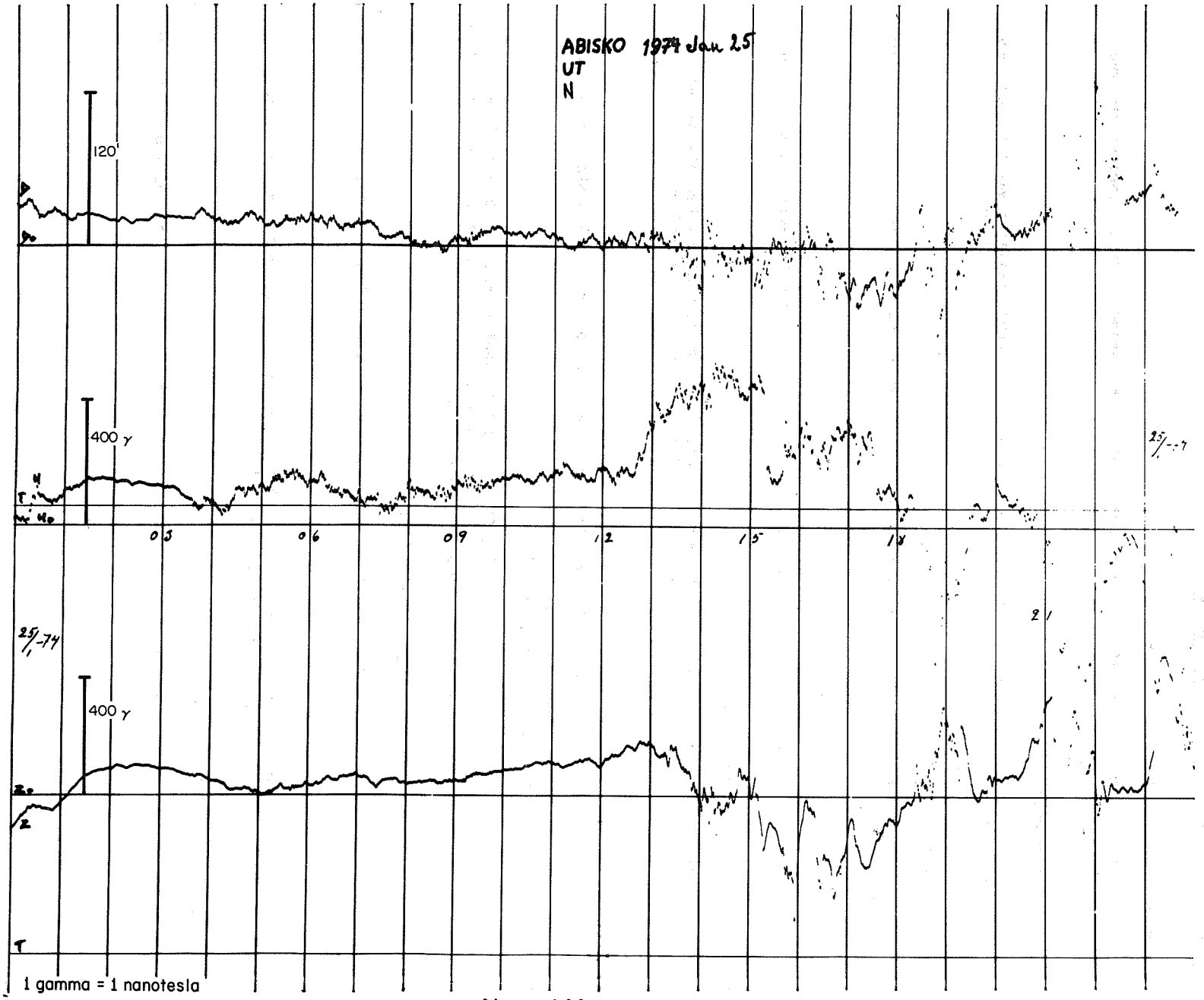
   Magnetograms from selected observatories reduced to a uniform time and sensitivity scale.

9. Principal Magnetic Storms

   A table reproduced from Solar-Geophysical Data, chronologically showing the principal magnetic storms reported by the stations indicated.

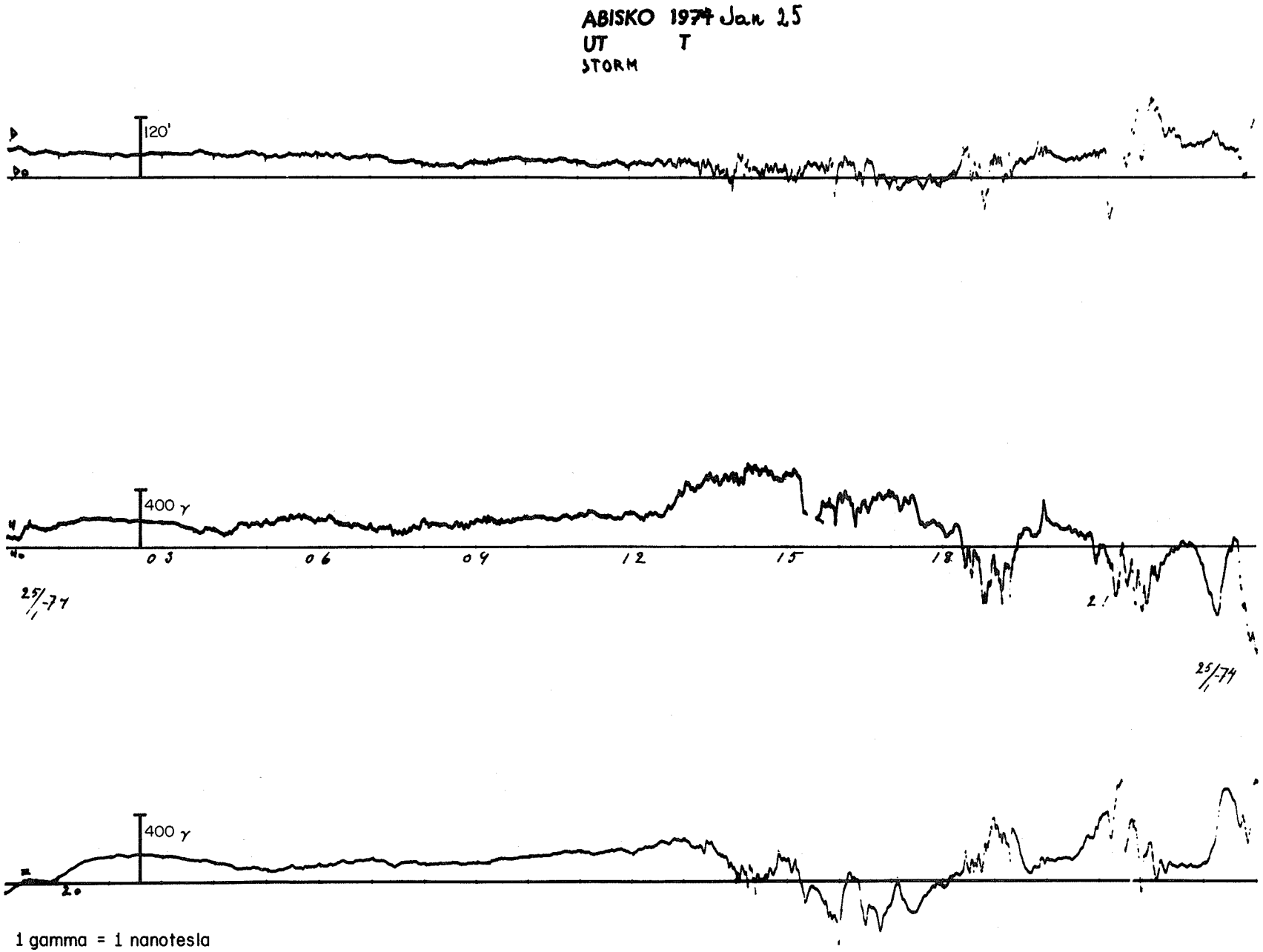
10. AE-Indices (also AU, AL and AO)

    Table and plots showing hourly values of AE, AU, AL and AO indices and graphs derived from 2.5-minute values.



Normal Magnetogram

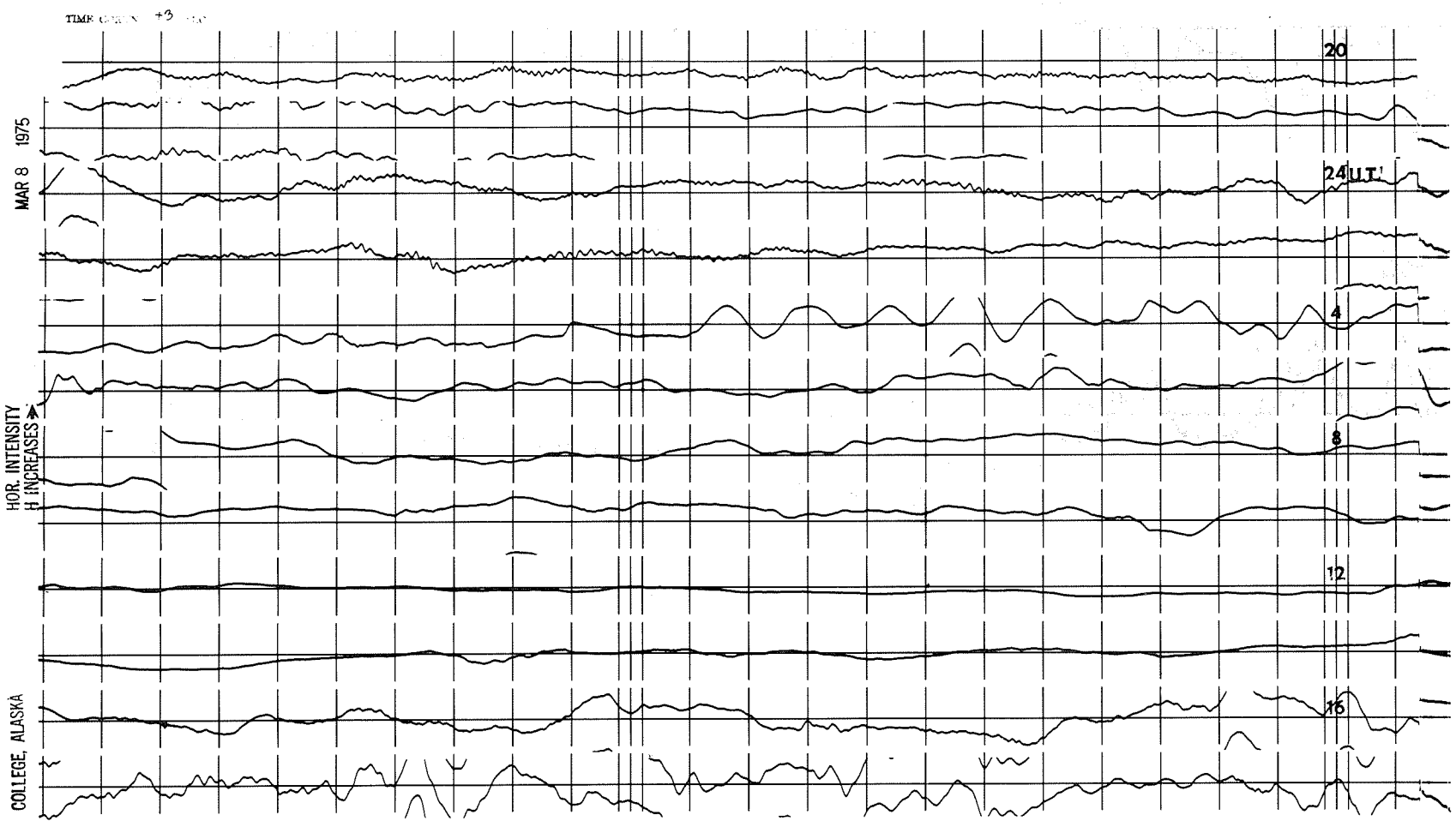
Approximate size of original magnetogram: 30 cm x 40 cm.



1 gamma = 1 nanotesla

Storm Magnetogram

Approximate size of original magnetogram: 30 cm x 40 cm.



Rapid—Run Magnetogram

Approximate size of original magnetogram: 30 cm x 50 cm.

LUNPING

JAN 1981

TABLE 5- 1 HOURLY VALUES OF Z

(25000 + TABULAR VALUES IN NT)

DAY	UT	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1		749	744	731	723	728	732	737	740	743	743	740	741	746	749	749	749	749	749	750	749	749	749	747	746		743
2		743	740	728	716	716	723	734	742	744	744	746	746	747	749	750	749	750	749	749	750	749	749	749	751		742
3		751	748	739	733	733	733	736	739	746	748	748	746	748	749	749	748	750	751	749	748	751	751	750	751		746
4	D	692	692	689	688	742	733	735	742	747	746	747	746	746	748	750	750	751	751	751	749	751	750	749	751		737
5		750	741	732	726	723	726	726	735	744	744	747	745	744	747	747	747	747	747	747	747	747	747	747	747		742
6		745	738	727	721	726	732	735	741	745	745	746	747	745	747	747	747	747	747	746	746	747	747	747	747		742
7		746	740	734	729	728	731	734	736	740	743	743	743	745	747	748	747	746	746	746	747	746	747	746	746		742
8		752	743	733	721	719	727	733	743	750	751	752	751	752	754	754	754	755	757	754	754	755	755	756	757		747
9		756	749	738	729	726	732	735	738	744	747	747	747	750	750	753	753	753	753	753	753	753	753	753	753		747
10		735	729	720	712	714	720	729	732	733	735	736	736	736	738	741	741	741	742	742	741	743	743	743	743		734
11	D	741	733	722	707	708	716	726	731	735	735	736	738	741	743	741	741	743	743	744	743	744	744	743	744		735
12	Q	743	735	728	721	714	717	722	731	737	735	738	740	741	743	744	744	746	745	744	743	744	745	744	744		737
13		745	742	736	724	719	721	727	733	737	739	739	742	741	741	743	744	744	744	744	744	744	744	744	745		739
14		744	737	722	714	719	730	736	737	737	737	737	737	737	739	740	742	743	743	743	743	743	743	742	745		737
15		747	744	738	731	717	708	711	719	726	728	732	734	736	737	740	740	740	740	740	740	740	741	741	744		734
16		748	743	736	727	724	718	713	718	727	733	736	734	736	737	739	740	740	741	741	741	742	742	741	742		735
17		741	737	724	717	714	711	715	725	732	735	736	735	735	735	738	738	738	738	738	738	741	741	741	744		733
18	Q	741	737	732	727	729	727	729	732	736	738	738	737	738	738	738	738	738	738	737	738	738	738	738	738		736
19	Q	734	725	714	711	713	716	720	729	733	735	737	734	736	737	737	737	737	737	737	737	738	738	738	740		731
20	Q	740	734	720	711	718	719	722	728	731	728	732	732	734	734	735	735	736	735	735	734	734	735	734	737		731
21	Q	736	732	724	718	716	716	718	727	730	731	733	733	733	735	734	734	734	735	735	736	736	736	736	736		731
22		737	736	729	722	715	714	721	729	732	732	733	732	732	735	733	733	735	736	735	736	737	738	738	739		732
23		737	733	720	706	702	706	713	722	729	729	730	728	731	730	731	731	734	734	734	734	734	734	734	734		727
24		732	726	720	717	711	711	717	726	731	730	729	729	729	732	733	733	734	733	734	734	734	734	733	735		728
25		732	723	711	708	706	706	714	723	729	729	732	732	735	735	735	735	735	735	735	737	735	735	735	738		728
26		736	721	709	706	704	710	715	721	727	727	730	732	733	736	736	737	739	739	739	737	737	736	737	739		728
27		735	725	720	713	705	705	711	723	731	732	733	734	734	735	735	735	737	737	737	736	736	736	737	739		729
28	D	741	735	723	714	713	714	712	726	733	734	735	735	735	738	738	738	738	738	738	738	738	739	738	740		732
29	D	739	730	722	719	713	709	713	719	725	731	731	731	734	734	735	734	734	734	734	737	735	734	734	734		729
30		739	733	721	715	714	715	720	724	724	724	724	724	727	729	730	730	732	733	732	732	733	733	733	734		727
31	D	733	725	715	709	706	697	700	714	723	724	724	725	729	732	735	733	733	734	735	735	735	735	735	738		725
MEAN		740	734	724	717	717	719	723	730	735	736	737	737	738	740	741	741	741	741	741	741	742	742	741	743		735
MEAN	Q	739	733	724	718	718	719	722	729	733	733	736	735	736	737	738	738	738	738	738	738	738	738	738	739		733
MEAN	D	729	723	714	707	716	714	717	726	733	734	735	735	737	739	740	739	740	740	740	740	741	740	740	741		732

INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS

INTERNATIONAL ASSOCIATION OF GEOMAGNETISM AND AERONOMY

INDICES OF GEOMAGNETIC ACTIVITY

OBSERVATORY SCOTT BASE (Antarctica)

MONTH November 1981

RANGE FOR K=9 2000 γ

SCALE-VALUES OF VARIOMETERS IN γ/MM

D..... H..... Z.....

GR DAY	K- INDICES FOR THREE-HOUR INTERVAL									SUM
	00h-03h	03h-06h	06h-09h	09h-12h		12h-15h	15h-18h	18h-21h	21h-24h	
1	3	3	2	4		3	3	3	3	24
2	3	2	2	2		1	3	5	5	23
3	4	4	3	3		2	3	3	3	25
4	3	3	2	2		2	3	4	3	22
5	3	3	3	3		4	4	3	3	26
6	3	4	3	3		3	3	4	3	26
7	4	5	3	3		4	4	3	3	29
8	4	4	4	5		4	6	6	4	37
9	2	3	2	2		2	3	4	3	21
10	2	4	3	4		3	3	4	4	27
11	4	3	3	3		5	5	5	6	34
12	4	6	4	5		3	4	5	5	36
13	5	3	2	3		2	3	5	5	28
14	4	4	3	4		4	4	3	6	32
15 *	-	-	-	-		-	-	-	-	--
16	3	5	3	3		3	4	6	6	33
17	5	4	3	4		4	5	4	5	34
18	4	3	4	4		4	3	4	3	29
19	4	3	3	2		3	4	4	4	27
20	3	3	4	4		3	4	5	4	30
21	4	3	3	3		3	4	4	3	27
22	4	3	3	3		3	3	4	4	27
23	3	3	3	3		4	3	4	4	27
24	3	3	2	3		3	2	3	3	22
25	4	4	5	5		5	4	5	5	37
26	4	3	3	3		3	4	4	3	27
27	4	3	3	3		2	3	3	5	26
28 **	-	-	2	2		3	4	5	4	--
29	3	3	2	2		3	3	4	3	23
30	2	2	2	2		2	3	3	4	20
31										

Form No. 1082. * Inadequate light on subject.

** Malfunction to drive of drum.

SODANKYLÄ
GEOPHYSICAL OBSERVATORY

GEOMAGNETIC INDICES Q

NOVEMBER 1981

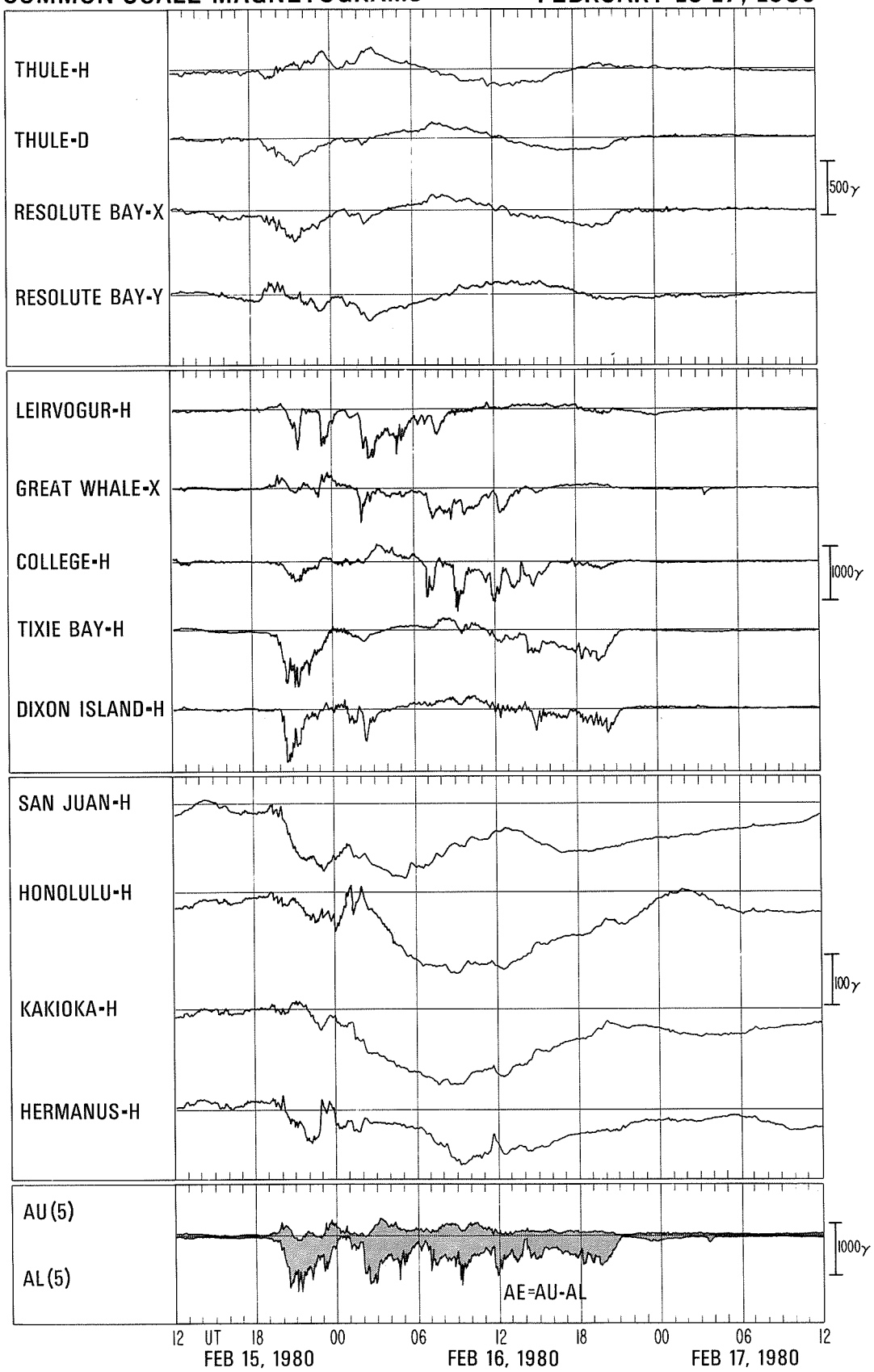
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0h	0000	0000	3320	0000	1312	0122	6665	4321	0000	0000	3000	6677	0000	1111	5445
	0000	0000	0001	0000	1111	1244	4444	1113	0000	0000	1122	7778	0000	1112	4343
	0000	0111	1101	0000	1101	4433	4555	3323	0000	0000	2100	8888	0000	2100	3235
	0111	0001	0000	0000	2211	2122	4444	3345	0000	0000	1111	8876	0000	0000	4333
	0001	0000	0001	0000	0111	1111	4433	5443	0000	0011	1233	5455	0000	1011	3333
	0000	1000	0000	0000	1101	0200	2222	3212	0000	0000	2122	4455	0000	1132	3433
6h	0000	0000	0010	0000	1111	0000	2122	1112	0000	0012	2222	5444	0000	2211	3332
	0000	0000	0000	0000	1111	0000	2221	1111	0000	1001	1111	4433	0000	2112	2234
	0000	0000	0000	0000	0011	0000	2111	2322	0000	1112	1010	4343	0000	1100	2211
	0100	0000	1121	0000	0111	0000	1212	2223	0000	2211	0000	3333	0001	0122	2111
	0222	0000	0000	0000	1112	0000	3333	3343	0100	0122	0000	3223	1000	2221	1011
	0000	0000	0000	0000	2221	0000	3445	1111	0000	1211	0223	4343	0020	1233	1111
12h	0000	0000	0000	0000	2223	0000	5555	1102	1000	1110	2144	3433	0000	3333	1101
	0001	0000	0000	0000	3332	0000	5544	2112	0000	0100	5565	3322	0000	4555	1112
	1100	0000	0000	0010	1221	0000	3344	2213	0000	0111	5444	1001	0000	6666	2121
	0111	0000	0000	0000	1011	0000	4355	2112	0000	0011	3345	0110	0000	6665	2233
	1133	0000	0011	0011	2223	0000	4544	1433	0000	1110	5666	1113	0000	5557	4445
	3222	0000	0000	2222	2221	0001	3334	4433	0000	0100	6676	1111	0000	7564	5333
18h	2333	0111	0010	3333	2122	2222	3433	2211	0000	0011	5554	0000	0000	4333	3122
	2222	0222	2334	3332	2333	1222	2132	1111	0000	0113	5554	0011	0100	3323	2111
	2111	2211	4443	2134	4445	3344	2334	1112	0000	3332	4554	0111	0102	3556	2444
	1111	1110	2200	4444	5444	5555	5444	2012	0011	3222	4455	1021	2232	6677	4443
	1221	0011	0000	4443	3321	5666	5444	3222	2221	4554	5344	0000	2555	5566	2333
	1011	2333	0000	3222	0000	6655	4555	1100	0000	4454	3345	0000	5543	6566	2222

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0h	1344	7655	6444	6665	5554	5543	4434	4443	6443	3211	5432	0000	0023	0000	0000
	5444	4213	4445	5543	2011	2011	3334	3222	3333	1111	0322	0000	4443	0001	0000
	4555	2221	5334	3333	1110	1111	4344	2101	3444	1353	1111	0000	2110	3333	0000
	5532	2222	5443	3333	0111	2122	4433	1111	3333	3222	1100	0000	0000	1000	0000
	3233	2332	4333	2233	2110	2212	3222	2111	2211	2333	1100	0000	0000	0000	0000
	2321	4433	4333	2112	1112	0000	1110	1000	1111	3333	1110	0000	0000	0000	0000
6h	1232	2222	3233	1122	1111	1212	1011	0100	1011	3222	0011	0000	0000	0000	0000
	2222	3212	4333	2121	2211	1100	1111	0000	1100	3221	1111	0000	0000	0000	0000
	2221	2201	3332	1110	1012	0000	2211	0133	0002	1121	1011	0000	0000	0000	0000
	3333	3213	2433	1112	2112	1011	1233	3333	1011	1122	1111	0010	0000	0000	0100
	2011	2112	3444	2333	2333	1010	3332	3333	1111	1222	1210	0000	0000	0000	0000
	1000	1234	4445	3332	3344	0011	2111	4665	1112	2554	0011	0000	0000	0000	0000
12h	1112	3434	4444	2223	3444	1233	1211	5554	2223	4332	1112	0000	0000	0000	0000
	1110	4466	5553	3311	4433	2211	1111	4555	3444	2231	2001	0000	0000	0000	0000
	2100	6566	3123	2323	2333	2211	1100	6667	4321	1122	1000	0000	0000	0000	0000
	0111	5445	3344	3444	3221	1233	1101	7766	1122	1112	1223	0000	0001	0000	0000
	0112	5446	6434	4432	1223	4333	1101	6555	2233	2111	3333	0000	1011	0000	0000
	2211	6654	5434	2332	3222	4333	2210	5545	3333	1000	3333	0000	1111	0000	0000
18h	1110	4275	3466	3334	2222	3324	0000	6765	3224	0000	3442	0000	0000	0100	0000
	0001	5666	4656	4443	1212	4466	0001	4444	4222	0000	1000	0000	1111	0000	0000
	1145	5554	6654	2122	2445	7666	1122	3445	2333	0133	0000	0000	0000	0110	0000
	6656	5556	5577	2322	5567	6667	2111	5444	3444	2234	0001	0000	1233	0000	0000
	7776	6677	5655	2212	6666	8877	1122	4444	4444	4555	1100	0000	2232	1000	0000
	5436	7776	5555	3445	6555	6444	3345	5676	3433	5555	0000	0000	2110	0000	0000

Sodankylä 1981-12-02 Airi Kataja

YEAR	MO	DAY	SUNROT	CYCLE	Kp								SUM(Kp)	3-H ap							SUM(ap)	Ap	CP	C9	SUNSPOT	FLUX	CODE
81	4	1	2018	16	4+	4-	3o	4o	3+	4+	4-	3o	29+	32	22	15	27	18	32	22	15	183	23	1.1	5	132	210.8	1
81	4	2	2018	17	1+	2o	2o	2+	3o	3-	3o	2+	19-	5	7	7	9	15	12	15	9	79	10	.6	3	170	211.2	1
81	4	3	2018	18	2+	3+	1+	2+	4-	3+	3+	3-	22+	9	18	5	9	22	18	18	12	111	14	.8	4	148	221.2	0
81	4	4	2018	19	3-	2+	2-	2-	2+	2o	4-	3o	19+	12	9	6	6	9	7	22	15	86	11	.6	3	151	219.7	0
81	4	5	2018	20	1-	0+	1-	1o	1+	1o	2-	2-	8+	3	2	3	4	5	4	6	6	33	4	.1	0	157	226.2	0
81	4	6	2018	21	2-	3o	4-	3-	2+	1+	1+	2o	18o	6	15	22	12	9	5	5	7	81	10	.6	3	132	235.7	0
81	4	7	2018	22	2o	2-	2o	2o	3-	2o	3+	2-	17+	7	6	7	7	12	7	18	6	70	9	.5	2	152	242.3	0
81	4	8	2018	23	3-	1o	2+	2+	1o	4-	3o	3-	19-	12	4	9	9	4	22	15	12	87	11	.6	3	195	268.8	1
81	4	9	2018	24	4-	3+	1-	0+	2-	1o	1o	2-	13+	22	18	3	2	6	4	4	6	65	8	.4	2	199	287.7	0
81	4	10	2018	25	1o	1+	2-	3o	2-	2+	2+	2-	15o	4	5	6	15	6	9	9	6	60	8	.4	2	199	268.8	1
81	4	11	2018	26	1-	2-	3-	3o	6+	6o	4-	6o	30o	3	6	12	15	94	80	22	80	312	39	1.4	6	200	272.1	0
81	4	12	2018	27	7o	7o	6-	5o	7o	6+	6-	6+	50o	132	132	67	48	132	94	67	94	766	96	1.9	8	193	251.9	0
81	4	13	2019	1	8o	8+	8-	6-	6+	6-	6-	5o	52+	207	236	179	67	94	67	67	48	965	121	1.9	8	197	254.9	1
81	4	14	2019	2	5o	4o	5o	3+	4-	5-	2o	1+	29o	48	27	48	18	22	39	7	5	214	27	1.2	6	180	256.5	1
81	4	15	2019	3	1-	2-	2-	2o	3-	3o	2+	2o	16o	3	6	6	7	12	15	9	7	65	8	.4	2	212	254.9	1
81	4	16	2019	4	3o	2-	2-	4o	4o	2+	2+	2o	21o	15	6	6	27	27	9	9	7	106	13	.8	4	197	247.5	1
81	4	17	2019	5	2o	3+	5-	3o	3+	3o	4-	3+	26+	7	18	39	15	18	15	22	18	152	19	1.0	5	213	242.7	0
81	4	18	2019	6	3o	2+	1o	2o	1+	4+	3+	3+	21-	15	9	4	7	5	32	18	18	108	14	.8	4	214	229.2	0
81	4	19	2019	7	6o	6o	3+	5-	6-	5-	4o	2+	37-	80	80	18	39	67	39	27	9	359	45	1.5	7	203	214.9	0
81	4	20	2019	8	4o	6+	5+	4o	5+	5o	5o	6-	41-	27	94	56	27	56	48	48	67	423	53	1.6	7	199	200.9	1
81	4	21	2019	9	4+	4+	5+	5-	5o	4+	5o	5-	38-	32	32	56	39	48	32	48	39	326	41	1.5	7	170	196.1	0
81	4	22	2019	10	5o	5-	5o	3+	4+	4-	5-	3+	34o	48	39	48	18	32	22	39	18	264	33	1.3	6	122	191.5	0
81	4	23	2019	11	4o	5-	5-	4+	4+	4-	4o	4o	34-	27	39	39	32	32	22	27	27	245	31	1.3	6	108	204.9	0
81	4	24	2019	12	2-	4-	3+	4-	5-	4o	4o	3-	28-	6	22	18	22	39	27	27	12	173	22	1.1	5	92	203.0	1
81	4	25	2019	13	4+	4-	3o	3-	3o	4-	3o	4-	27o	32	22	15	12	15	22	15	22	155	19	1.0	5	119	203.8	1
81	4	26	2019	14	3+	3+	6-	6-	7+	5o	5+	6-	41+	18	18	67	67	154	48	56	67	495	62	1.7	7	90	198.8	0
81	4	27	2019	15	6o	5+	5-	5+	5-	5-	3-	4-	37o	80	56	39	56	39	39	12	22	343	43	1.5	7	73	194.7	1
81	4	28	2019	16	2o	1+	2-	3-	3-	4o	2+	4o	21-	7	5	6	12	12	27	9	27	105	13	.8	4	72	178.2	1
81	4	29	2019	17	5-	3+	3-	4o	3+	3o	3-	2+	26o	39	18	12	27	18	15	12	9	150	19	1.0	5	106	176.9	0
81	4	30	2019	18	2o	1+	2+	2-	3o	1o	2o	1+	15-	7	5	9	6	15	4	7	5	58	7	.4	2	92	175.3	0
81	5	1	2019	19	2-	1+	4o	3+	3o	4-	4-	3-	23+	6	5	27	18	15	22	22	12	127	16	.9	4	112	188.0	0
81	5	2	2019	20	3+	2o	2o	2-	1+	2-	1o	1+	14+	18	7	7	6	5	6	4	5	58	7	.4	2	133	193.4	0
81	5	3	2019	21	1+	1+	2+	2o	2-	1o	1-	1-	11o	5	5	9	7	6	4	3	3	42	5	.2	1	156	206.5	1
81	5	4	2019	22	1-	1o	2-	1+	1o	1+	1o	0+	8+	3	4	6	5	4	5	4	2	33	4	.1	0	152	221.2	0
81	5	5	2019	23	1o	1-	1-	1-	2-	1o	1+	1-	8-	4	3	3	3	6	4	5	3	31	4	.1	0	162	237.5	0
81	5	6	2019	24	1o	1+	1o	1o	2-	2-	2-	1o	10+	4	5	4	4	6	6	6	4	39	5	.2	1	178	231.2	0
81	5	7	2019	25	1o	2-	1o	2-	2-	1o	1+	1-	10o	4	6	4	6	6	4	5	3	38	5	.2	1	171	234.2	0
81	5	8	2019	26	1+	2-	1o	2+	2o	4-	4-	3o	19-	5	6	4	9	7	22	22	15	90	11	.6	3	177	222.4	1
81	5	9	2019	27	4+	6+	6+	4+	3+	3+	3-	3o	34-	32	94	94	32	18	18	12	15	315	39	1.4	6	158	218.6	0
81	5	10	2020	1	4-	3+	3-	2-	2o	4o	4+	7o	29-	22	18	12	6	7	27	32	132	256	32	1.3	6	148	217.7	1
81	5	11	2020	2	7-	7-	6o	6o	5+	3+	3-	3+	40o	111	111	80	80	56	18	12	18	486	61	1.7	7	169	228.1	1
81	5	12	2020	3	2-	2+	2+	1+	3o	4-	4-	3+	21+	6	9	9	5	15	22	22	18	106	13	.8	4	183	223.4	0
81	5	13	2020	4	3+	4o	3o	1+	2-	1-	1-	1o	16-	18	27	15	5	6	3	3	4	81	10	.6	3	149	221.3	0
81	5	14	2020	5	2-	3-	3o	4+	4-	3-	4o	3o	25o	6	12	15	32	22	12	27	15	141	18	1.0	5	140	232.5	0
81	5	15	2020	6	4o	7o	6+	4+	4+	5-	5-	5-	40o	27	132	94	32	32	39	39	39	434	54	1.6	7	141	223.9	0

COMMON-SCALE MAGNETOGRAMS FEBRUARY 15-17, 1980



P R I N C I P A L M A G N E T I C S T O R M S

AUGUST 1982

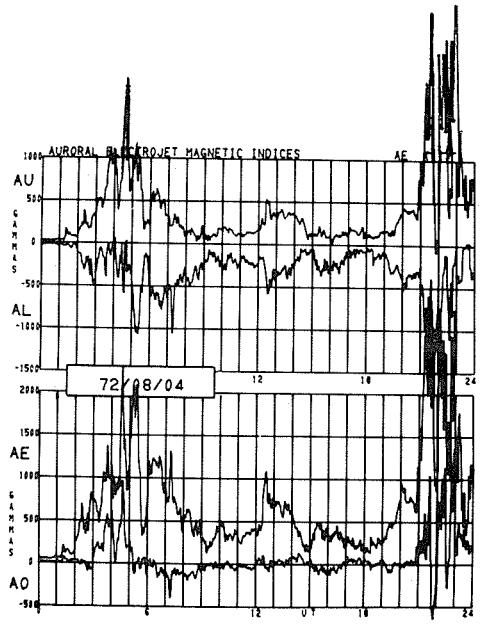
Sta	Geomag Lat	Commencement Day	Commencement Time (UT)	Type	SC Amplitudes D (Min)	SC Amplitudes H (Gamma)	SC Amplitudes Z (Gamma)	Maximum 3-Hour K Index Day(3-Hour Periods)	K	Ranges D (Min)	Ranges H (Gamma)	Ranges Z (Gamma)	End Day	End Hour (UT)
HYB	07.6N	01	1800	..	..	..	..	02(4)	6	9	138	38	04	20
COL	64.6N	02	09--	..	..	..	..	02(4) 03(3,4) 04(4,5)	6	176	1100	730	04	23
WIT	54.2N	02	09--	..	..	..	..	02(6,7,8)	6	28	205	90	03	02
FRD	49.6N	02	----	..	..	..	..	02(5,7,8) 03(2)	5	23	147	114	05	--
GUA	04.0N	02	0837	..	..	..	..	02(4)	5	10	110	40	03	16
HUA	00.6S	02	0359	..	..	..	..	02(6)	7	9	302	58	03	20
HER	33.7S	02	08--	..	..	..	..	02(7)	5	19	115	71	03	15
COL	64.6N	06	09--	..	..	..	..	07(2,3,4,5,6)	7	468	1960	1310	07	21
SIT	60.0N	06	18--	..	..	..	..	07(2)	8	--	--	--	07	20
WIT	54.2N	06	18--	..	..	..	..	07(2,5,6)	7	25	380	250	07	18
FRD	49.6N	06	18--	..	..	..	..	07(3,6)	7	51	310	222	13	--
JAI	17.3N	06	1836	SC	- 1.3	41	- 8		-	9	191	52	07	21
SHL	14.6N	06	1836	SC	- 0.4	45	8		-	8	239	61	07	21
UJJ	13.5N	06	1836	SC	- 0.8	46	- 10		-	7	186	42	07	21
ABG	09.5N	06	1836	SC	- 0.9	34	- 9	07(2,3,4)	6	6	178	57	07	21
HYB	07.6N	06	1836	..	- 0.6	36	- 2	07(3)	7	6	198	40	07	21
GUA	04.0N	06	1836	..	..	..	..	07(3)	7	10	270	60	07	17
ANN	01.5N	06	1836	SC	- 1.7	41	24		-	6	246	117	07	21
TRD	01.1S	06	1836	SC	- 0.3	28	38		-	5	346	186	07	21
HER	33.7S	06	08--	..	..	..	..	07(3,4)	6	43	165	115	07	17
GNA	43.2S	06	18--	..	..	..	..	07(2,4,5)	6	30	200	170	07	21
KGL	56.5S	06	18--	..	..	..	..	07(1,2,3,5)	7	71	585	339	07	23
HUA	00.6S	07	0057	..	..	..	..	07(6)	7	20	393	42	07	21
PMG	18.6S	07	03--	..	..	..	..	07(2,3)	7	9	250	100	07	21
COL	64.6N	09	06--	..	..	..	..	11(6)	7	234	1420	930	12	20
GUA	04.0N	09	1447	..	..	..	..	10(1)	5	10	130	40	10	13
HYB	07.6N	11	0600	..	..	..	..	11(6)	5	6	144	41	12	23
HER	33.7S	11	08--	..	..	..	..	11(6)	5	17	109	82	11	21
FRD	49.6N	20	16--	..	..	..	..	22(7)	5	24	119	44	26	--
HYB	07.6N	21	2300	..	..	..	..	22(5,6,7)	4	7	80	30	23	10
HUA	00.6S	22	0058	..	..	..	..	22(6)	6	5	249	38	22	21
HER	33.7S	22	08--	..	..	..	..	22(7)	5	24	81	77	23	03
HYB	07.6N	25	0100	..	..	..	..	25(8) 26(5,6)	4	7	110	42	26	23
COL	64.6N	28	1002	SC*	- 5	65	31	29(3)	8	369	2070	1250	01	21
SIT	60.0N	28	18--	..	..	..	..	29(3)	8	80	--	770	30	22
GUA	04.0N	28	2108	..	..	..	..	29(4)	5	10	140	40	29	18
HYB	07.6N	29	0500	..	..	..	..	29(4,5)	5	8	155	38	31	09
HUA	00.6S	29	0416	..	..	..	..	29(5,6)	6	7	212	49	29	23

REPORTS WERE RECEIVED FROM THE FOLLOWING OBSERVATORIES:

ALIBAG	COLLEGE	GNANGARA	HERMANUS	HYDERABAD	PORT MORESBY	TRIVANDRUM
ANNAMALAINAGAR	FREDERICKSBURG	GUAM	HONOLULU	JAIPUR	SHILLONG	UJJAIN
			HUANCAYO	KERGUELEN	SITKA	WITTEVEEN

AUGUST 1972 AE INDICES VALUES ARE EXPRESSED IN GAMMAS

UT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
01	463	524	623	554	719	574	556	463	365	343	155	080	132	194	177	129	174	078	062	046	039	122	145	351	295
02	449	329	258	126	108	180	222	198	205	255	179	250	208	045	032	029	059	106	101	087	131	096	077	072	158
C 03	046	044	046	070	064	077	060	051	154	281	093	040	066	115	214	156	182	143	091	068	060	067	075	083	098
D 04	050	108	481	838	1189	1202	1093	748	478	272	372	337	667	664	326	376	323	241	219	465	792	1954	2065	948	675
D 05	974	719	643	568	966	745	450	388	400	556	756	783	696	630	1165	803	515	332	696	1022	680	570	350	351	661
D 06	843	1141	941	1052	1186	1042	546	558	681	651	703	481	570	576	457	810	766	975	672	428	680	687	482	388	726
07	492	763	743	786	692	720	413	197	182	159	369	197	169	200	324	319	239	164	146	220	159	142	141	101	335
08	068	065	067	061	043	038	045	047	059	076	070	070	104	116	244	257	182	314	342	348	151	170	208	304	144
C 09	595	510	250	588	748	975	1100	907	351	569	1242	675	394	398	286	331	314	328	398	258	201	400	226	150	508
10	130	124	067	072	094	209	245	409	224	205	231	627	548	546	501	331	199	260	291	122	238	537	486	367	294
11	427	481	521	595	313	136	089	082	250	377	370	132	354	218	105	179	465	295	437	268	405	550	285	297	318
12	166	135	180	229	344	200	124	065	085	137	095	090	074	105	053	069	135	341	268	121	074	080	143	179	146
Q 13	085	098	104	121	182	333	108	056	074	070	054	063	063	035	025	077	238	379	114	059	060	079	058	061	108
14	100	249	151	104	082	079	058	058	070	085	169	300	235	076	090	082	135	158	163	163	135	133	166	112	131
15	104	133	157	296	435	660	664	550	626	200	137	074	066	035	032	095	038	035	078	147	148	116	145	252	218
16	113	171	391	254	082	078	144	234	256	083	073	095	080	134	296	216	173	145	144	137	175	097	110	123	161
17	118	152	181	090	049	064	072	094	120	271	179	069	068	074	203	102	087	081	104	154	142	089	074	180	117
18	251	140	112	113	260	288	169	171	306	368	519	324	251	381	294	285	371	424	693	570	491	424	405	459	336
19	308	197	252	441	266	414	266	236	096	073	060	054	063	183	606	778	545	481	366	115	182	139	147	090	265
20	167	125	089	100	145	102	104	073	081	143	328	285	160	159	273	400	445	276	390	484	503	351	429	629	260
21	454	306	167	228	584	582	386	210	187	226	326	193	132	180	218	388	292	238	337	345	137	314	347	286	294
22	266	132	074	068	073	403	312	186	420	183	154	342	299	253	264	270	152	079	139	135	091	069	063	062	187
Q 23	055	051	058	064	142	142	092	106	081	062	074	071	063	054	046	042	081	113	069	050	065	074	056	051	073
Q 24	050	055	072	073	067	065	061	065	092	241	089	071	077	103	114	147	130	185	128	084	073	070	089	101	096
Q 25	084	132	053	061	064	059	102	234	385	320	310	274	247	280	143	122	156	207	097	080	056	057	060	093	153
26	107	259	573	531	498	502	587	239	147	196	151	104	066	068	161	278	296	389	140	057	115	169	260	170	253
D 27	108	208	371	414	435	512	447	581	662	783	739	699	441	574	352	319	385	036	082	112	157	132	103	127	371
28	112	080	080	088	073	070	066	060	086	129	191	138	212	359	212	107	153	344	471	306	260	179	163	138	170
29	103	159	268	250	153	185	219	269	212	160	093	142	096	117	169	220	105	046	311	535	355	243	148	249	200
30	458	180	088	066	072	070	062	072	084	157	207	191	132	126	098	086	057	066	083	151	221	147	092	093	127
31	202	298	244	222	222	305	324	395	232	097	074	071	060	052	051	043	060	032	180	197	089	059	056	098	154
MEAN	255	260	268	298	336	355	300	258	247	249	276	235	219	227	243	253	240	239	252	238	228	268	247	224	259
5Q MEAN	064	076	067	078	104	135	085	102	157	195	124	104	103	117	108	109	157	205	100	068	063	069	068	078	105
5D MEAN	514	537	537	712	917	895	747	636	514	566	762	595	554	568	517	528	461	394	413	457	502	749	645	393	588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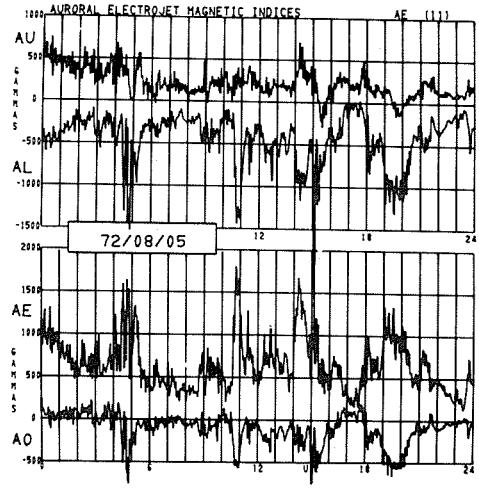
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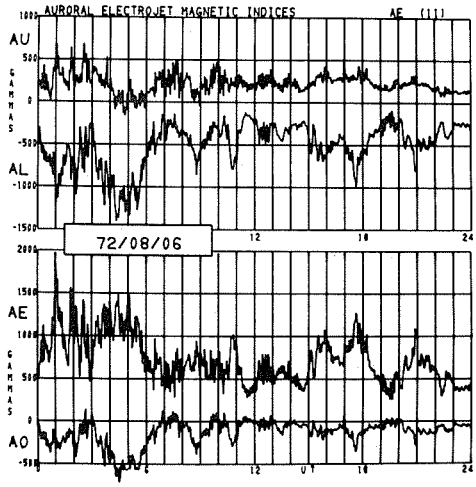
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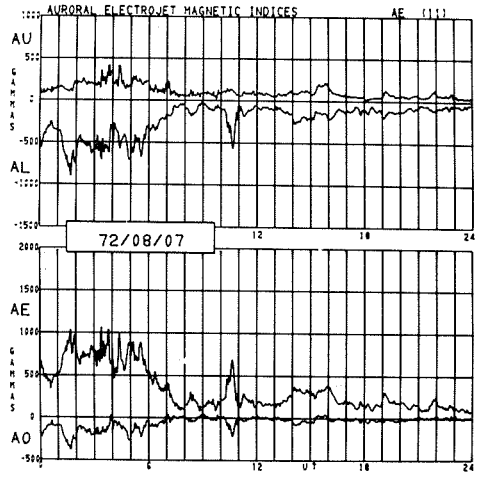
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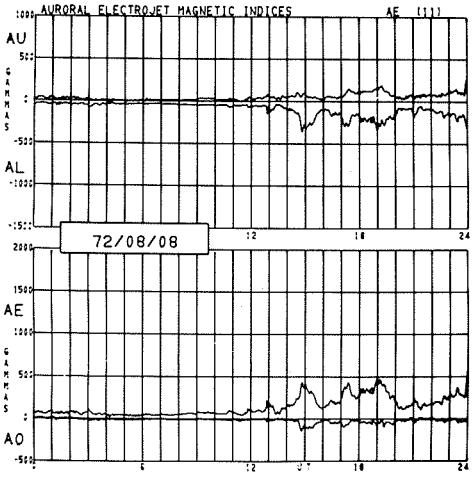
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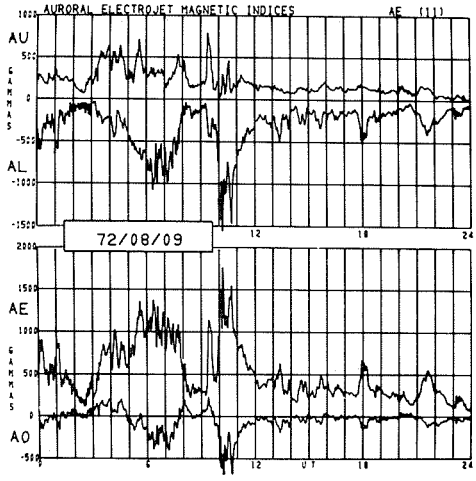
AURORAL ELECTROJET MAGNETIC INDICES
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VI. CATALOG OF GEOMAGNETIC DATA HELD AT WDC-A, B2 OR C2 (TABLE 5)

Observatory names, international 3-letter codes, and geographic coordinates are consistent with those published in "IAGA News", December 1979. The coordinates are co-latitude and east longitude. Components measured at each observatory are either Declination (D), Horizontal (H), and Vertical (Z) or Geographic North (X), Geographic East (Y), and Vertical (Z). If local K indices were available for some months of the year, this is indicated by the letter "K". For each type of geomagnetic data, there is shown a symbol indicating which World Data Center holds the data: A = WDC-A for STP, B = WDC-B2, and C = WDC-C2 (Geomagnetism). The catalog does not contain sufficient detail to indicate when data are held for some months of a year by one WDC and for other months of the same year by another WDC.

Normal and rapid run magnetograms are usually archived on 35-mm microfilm but original magnetograms may also be retained in the archive. Hourly values "any medium" may include any or all of the formats in which hourly values are available, e.g. tables on microfilm, tables on paper, published in yearbooks, and on magnetic tape. Hourly values "on tape" means specifically that the values exist in computer format on digital magnetic tape. High-resolution digital values (2.5-min or 1.0-min) are digital data either produced by digitizing analog magnetograms or originally recorded using digital magnetometer systems. The 1-min data are indicated by an asterisk (*).

High-resolution geomagnetic data with 10-sec resolution are tabulated in Table 6.

TABLE V

CATALOG LISTING OF ANALOG, TABULAR AND DIGITAL GEOMAGNETIC DATA

OBSERVATORY	COMP	YEAR K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
ABINGER	DHZ	1926					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
ABN	DHZ	1927					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(038.82 359.62)	DHZ	1928					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1929					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1930					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1931					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1932					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1933					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1934					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1935					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1936					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1937					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1938					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1939					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1940 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1941 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1942 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1943 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1944 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1945 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1946 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1947 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1948 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1949 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1950 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1951 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1952 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1953 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1954 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1955 K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1956 K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1957	BC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
ABISKO	DHZ	1967	BC	AM								
ABK	DHZ	1968	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
(021.65 018.82)	DHZ	1969	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1971	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1972	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1975	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1976	ABC	JFMAMJ JASOND			A	JFMA	A	JFMA	A	JFMA *
	DHZ	1977	ABC	JFMAMJ JASOND								
	DHZ	1978	ABC	JFMAMJ JASOND								
	DHZ	1979	ABC	JFMAMJ JASOND								
	DHZ	1980	ABC	JFMAMJ JASOND								
	DHZ	1981	A C	JFMAMJ JASOND								
	DHZ	1982	A	JFM								
ADAK	DHZ	1964	ABC	JASOND								
ADA												
(038.70 183.35)												

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
ADAK	DHZ	1965		ABC	JFMAMJ JASOND								
ADA	DHZ	1966		AB	J								
(038.70 183.35)													
ADDIS ABABA	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
AAE	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(080.97 038.77)	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1962		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1963		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	DHZ	1965		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1967		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1968		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1969		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1970		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1971		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1972		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1973		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1974		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1975		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1976		A	JFMAMJ JASOND								
	DHZ	1977		A	JFMAMJ JASOND								
	DHZ	1978		A	JF OND								
	DHZ	1979		A	JFMA OND								
	DHZ	1980		A	JFMAMJ J SOND								
AGINCOURT	DHZ	1908		A	JFMAMJ JASOND								
AGN	DHZ	1909		A	JFMAMJ JASOND								
(046.22 280.73)	DHZ	1910		A	JFMAMJ JASOND								
	DHZ	1911		A	JFMAMJ JASOND								
	DHZ	1912		A	JFMAMJ JASOND								
	DHZ	1913		A	JFMAMJ JASOND								
	DHZ	1914		A	JFMAMJ JASOND								
	DHZ	1915		A	JFMAMJ JASOND								
	DHZ	1916		A	JFMAMJ JASOND								
	DHZ	1917		A	JFMAMJ JASOND								
	DHZ	1918		A	JFMAMJ JASOND								
	DHZ	1919		A	JFMAMJ JASOND								
	DHZ	1920		A	JFMAMJ JASOND								
	DHZ	1921		A	JFMAMJ JASOND								
	DHZ	1922		A	JFMAMJ JASOND								
	DHZ	1923		A	JFMAMJ JASOND								
	DHZ	1924		A	JFMAMJ JASOND								
	DHZ	1925		A	JFMAMJ JASOND								
	DHZ	1926		A	JFMAMJ JASOND								
	DHZ	1927		A	JFMAMJ JASOND								
	DHZ	1928		A	JFMAMJ JASOND								
	DHZ	1929		A	JFMAMJ JASOND								
	DHZ	1930		A	JFMAMJ JASOND								

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
AGINCOURT	DHZ	1931		A	JFMAMJ JASOND								
AGN	DHZ	1932		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
(046.22 280.73)	DHZ	1933		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1934		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1935		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1936		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1937		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1938		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1939	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1940	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1941	K					ABC	JFMAMJ JASOND				
	DHZ	1942	K					ABC	JFMAMJ JASOND				
	DHZ	1943	K					ABC	JFMAMJ JASOND				
	DHZ	1944	K					ABC	JFMAMJ JASOND				
	DHZ	1945	K					ABC	JFMAMJ JASOND				
	DHZ	1946	K					ABC	JFMAMJ JASOND				
	DHZ	1947	K					ABC	JFMAMJ JASOND				
	DHZ	1948	K					ABC	JFMAMJ JASOND				
	DHZ	1949	K					ABC	JFMAMJ JASOND				
	DHZ	1950	K					ABC	JFMAMJ JASOND				
	DHZ	1951	K					ABC	JFMAMJ JASOND				
	DHZ	1952	K					ABC	JFMAMJ JASOND				
	DHZ	1953	K					ABC	JFMAMJ JASOND				
	DHZ	1954	K					ABC	JFMAMJ JASOND				
	DHZ	1955	K					ABC	JFMAMJ JASOND				
	DHZ	1956	K					ABC	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1969	K	ABC	JFM			ABC	JFMAMJ JASOND	A	JFM		
ALERT	XYZ	1961		ABC	ND			ABC	JFMAMJ JASOND				
ALE	XYZ	1962		AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(007.50 297.50)	XYZ	1963		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	XYZ	1964		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	XYZ	1965		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1966		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1967		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	AM ASOND
	XYZ	1968		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ J
	XYZ	1969		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JAS	A	JAS
	XYZ	1970		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	M	A	M

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
ALERT	XYZ	1971		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
ALE	XYZ	1972		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
(007.50 297.50)	XYZ	1973		ABC	JFMAMJ JASOND								
	XYZ	1974		ABC	JFMAMJ JASOND								
	XYZ	1975		ABC	J MAMJ JASOND								
	XYZ	1976		ABC	JFMAMJ JASOND								
	XYZ	1977		ABC	JFMAMJ JASOND								
	XYZ	1978		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	XYZ	1979		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1980		A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1981		A	JFMAMJ JAS								
ALIBAG	DHZ	1921						A	JFMAMJ JASOND				
ABG	DHZ	1922						A	JFMAMJ JASOND				
(071.62 072.52)	DHZ	1923						A	JFMAMJ JASOND				
	DHZ	1924						A	JFMAMJ JASOND				
	DHZ	1925						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1926						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1927						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1928						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1929						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1930						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1931						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1932						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1933						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1934						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1935						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1936						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1937						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1938						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1939						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1940	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1941	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1942	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1943	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1944	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1945	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1946	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1947	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1948	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1949	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1950	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1951	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1952	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1953	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1954	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1955	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1956	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1957	K	ABC	JASOND	B	JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
ALIBAG	DHZ	1959	K	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
ABG	DHZ	1960	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(071.62 072.52)	DHZ	1961	K					ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1962	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND	A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	M
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1979	K	A	JFMAMJ JASOND								
	DHZ	1980	K										
	DHZ	1981	K										
ALMA ATA	DHZ	1963		B	AMJ JASOND			B	MJ JASOND				
AAA	DHZ	1964	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
(046.75 076.92)	DHZ	1965	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1966	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1967	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1968	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1969	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1970	K	B	JFM			B	JFM				
	DHZ	1971	K	B	JFMAMJ JA			B	JFMAMJ JA				
	DHZ	1972	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1973	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1974	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1981		AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1982		A	JF			A	JF				
ALMERIA	DHZ	1955						A C	JFMAMJ JASOND				
ALM	DHZ	1956						A C	JFMAMJ JASOND				
(053.15 357.53)	DHZ	1957		ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
ALMERIA	DHZ	1960						AB	JFMAMJ JASOND				
ALM	DHZ	1961						ABC	JFMAMJ JASOND				
(053.15 357.53)	DHZ	1962	K					ABC	JFMAMJ JASOND				
	DHZ	1963	K					A C	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	M	A	M
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND								
	DHZ	1981	K	A C	JFMAMJ JASOND								
AMATSIA	DHZ	1976		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
AMT	DHZ	1977						A	JFMAMJ JASOND				
(058.45 034.92)	DHZ	1978		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1979		A	FMA J J ND			A	JFMAMJ J ND				
AMBERLEY	DHZ	1939	K										
AML	DHZ	1940	K										
(133.15 172.72)	DHZ	1941	K										
	DHZ	1942	K										
	DHZ	1943	K										
	DHZ	1944	K										
	DHZ	1945	K										
	DHZ	1946	K										
	DHZ	1947	K										
	DHZ	1948	K										
	DHZ	1949	K					A C	JFMAMJ JASOND				
	DHZ	1950	K					A C	JFMAMJ JASOND				
	DHZ	1951	K					A C	JFMAMJ JASOND				
	DHZ	1952	K					A C	JFMAMJ JASOND				
	DHZ	1953	K					A	JFMAMJ JASOND				
	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K					A	JFMAMJ JASOND				
	DHZ	1956	K					A	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	SOND		
	DHZ	1960	K					ABC	JFMAMJ JASOND				

OBSERVATORY	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
	COMP											
AMBERLEY	DHZ 1961	K					ABC	JFMAMJ JASOND				
AML	DHZ 1962	K					ABC	JFMAMJ JASOND				
(133.15 172.72)	DHZ 1963	K					ABC	JFMAMJ JASOND				
	DHZ 1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JA
	DHZ 1965	K	ABC	JFMAMJ JASOND			A	M JASON	A	M JASON	A	M JASON
	DHZ 1966	K										
	DHZ 1967	K										
	DHZ 1968	K	ABC	JFMAMJ JASOND								
	DHZ 1969	K	AB	JFMAMJ JASOND								
	DHZ 1970	K	ABC	JFMAMJ JASOND								
	DHZ 1971	K	ABC	JFMAMJ JASOND								
	DHZ 1972	K	ABC	JFMAMJ JASOND								
	DHZ 1973	K	ABC	JFMAMJ JASOND								
	DHZ 1974	K	ABC	JFMAMJ JASOND								
	DHZ 1975	K	AB	JFMAMJ JASOND								
	DHZ 1976	K										
	DHZ 1977	K										
AMDERMA	DHZ 1973		ABC	ND								
AMD	DHZ 1974		ABC	JFMAMJ JASOND								
(020.53 061.42)	DHZ 1975		ABC	JFMAMJ JASOND								
	DHZ 1976		ABC	JFMAMJ JASOND								
	DHZ 1977		AB	JFMAMJ JASOND								
ANCHORAGE	DHZ 1957		ABC	AMJ JASOND			ABC	JASOND	A	JASOND		
AMU	DHZ 1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(028.80 210.10)	DHZ 1959		BC	J								
ANDREWS AFB	DHZ 1972				AB	ASOND						
AWS												
(051.18 283.13)												
ANNAMALAINAGAR	DHZ 1957	K	ABC	OND			ABC	JFMAMJ JASOND				
ANN	DHZ 1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(078.78 079.42)	DHZ 1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1960	K					A	JFMAMJ JASOND				
	DHZ 1961	K.					ABC	JFMAMJ JASOND				
	DHZ 1962	K					A C	JFMAMJ JASOND				
	DHZ 1963	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ 1964	K	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1965	K	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1967	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	SO	A	SO
	DHZ 1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1975		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1976		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	YEAR K COMP	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
ANNAMALAINAGAR	DHZ 1977	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
ANN	DHZ 1978	A C	JFMAMJ JASOND			A	JFMAMJ JASOND				
(078.78 079.42)	DHZ 1979	A	JFMAMJ JASOND								
ANTIPOLO	DHZ 1911					A	JFMAMJ JASOND				
ANO	DHZ 1912					A	JFMAMJ JASOND				
(075.40 121.17)	DHZ 1913					A	JFMAMJ JASOND				
	DHZ 1914					A	JFMAMJ JASOND				
	DHZ 1915					A	JFMAMJ JASOND				
	DHZ 1916					A	JFMAMJ JASOND				
	DHZ 1917					A	JFMAMJ JASOND				
	DHZ 1918					A	JFMAMJ JASOND				
	DHZ 1919					A	JFMAMJ JASOND				
	DHZ 1920					A	JFMAMJ JASOND				
	DHZ 1921					A	JFMAMJ JASOND				
	DHZ 1922					A	JFMAMJ JASOND				
	DHZ 1923					A	JFMAMJ JASOND				
	DHZ 1924					A	JFMAMJ JASOND				
	DHZ 1925					A	JFMAMJ JASOND				
	DHZ 1926					A	JFMAMJ JASOND				
	DHZ 1927					A	JFMAMJ JASOND				
	DHZ 1928					A	JFMAMJ JASOND				
	DHZ 1929					A	JFMAMJ JASOND				
	DHZ 1930					A	JFMAMJ JASOND				
	DHZ 1931					A	JFMAMJ JASOND				
	DHZ 1932					A C	JFMAMJ JASOND				
	DHZ 1933					A C	JFMAMJ JASOND				
	DHZ 1934					A	JFMAMJ JASOND				
	DHZ 1935					A	JFMAMJ JASOND				
	DHZ 1936					A	JFMAMJ JASOND				
	DHZ 1938					A	JFMAMJ JASOND				
APIA	DHZ 1905					A	FMAMJ JASOND				
API	DHZ 1906					A	JFMAMJ JASOND				
(103.80 188.22)	DHZ 1907					A	JFMAMJ JASOND				
	DHZ 1908					A	JFMAMJ JASOND				
	DHZ 1909					A	JFMAMJ JASOND				
	DHZ 1910					A	JFMAMJ JASOND				
	DHZ 1911					A	JFMAMJ JASOND				
	DHZ 1921					A	JFMAMJ JASOND				
	DHZ 1922					A	JFMAMJ JASOND				
	DHZ 1923					A	JFMAMJ JASOND				
	DHZ 1924					A	JFMAMJ JASOND				
	DHZ 1925					A	JFMAMJ JASOND				
	DHZ 1926					A	JFMAMJ JASOND				
	DHZ 1927					A	JFMAMJ JASOND				
	DHZ 1928					A	JFMAMJ JASOND				
	DHZ 1929					A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
APIA	DHZ	1930						A	JFMAMJ JASOND				
API	DHZ	1931						A	JFMAMJ JASOND				
(103.80 188.22)	DHZ	1932						A C	JFMAMJ JASOND				
	DHZ	1933						A C	JFMAMJ JASOND				
	DHZ	1934						A	JFMAMJ JASOND				
	DHZ	1935						A C	JFMAMJ JASOND				
	DHZ	1936						A C	JFMAMJ JASOND				
	DHZ	1937						A	JFMAMJ JASOND				
	DHZ	1938						A	JFMAMJ JASOND				
	DHZ	1939	K					A	JFMAMJ JASOND				
	DHZ	1940	K					A	JFMAMJ JASOND				
	DHZ	1941	K					A C	JFMAMJ JASOND				
	DHZ	1942	K					A	JFMAMJ JASOND				
	DHZ	1943	K					A C	JFMAMJ JASOND				
	DHZ	1944	K					A C	JFMAMJ JASOND				
	DHZ	1945	K					A C	JFMAMJ JASOND				
	DHZ	1946	K					A	JFMAMJ JASOND				
	DHZ	1947	K					A	JFMAMJ JASOND				
	DHZ	1948	K					A C	JFMAMJ JASOND				
	DHZ	1949	K					A C	JFMAMJ JASOND				
	DHZ	1950	K					A C	JFMAMJ JASOND				
	DHZ	1951	K					A C	JFMAMJ JASOND				
	DHZ	1952	K					A	JFMAMJ JASOND				
	DHZ	1953	K					A	JFMAMJ JASOND				
	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K					A	JFMAMJ JASOND				
	DHZ	1956	K					A	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND	ABC	JASOND	ABC	JFMAMJ JASOND	A	JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959						AB	JFMAMJ JASOND				
	DHZ	1960						ABC	JFMAMJ JASOND				
	DHZ	1961						AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1962						ABC	JFMAMJ JASOND				
	DHZ	1963		AB	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966						A	JFMAMJ JASOND				
	DHZ	1967						A	JFMAMJ JASOND				
	DHZ	1968		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1969						A	JFMAMJ JASOND				
	DHZ	1970		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1971		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1972		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1973		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1974		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1975		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1976						A	JFMAMJ JASOND				
	DHZ	1978		A C	JFMAMJ JASOND								

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
ARCTIC ICE FLO	DHZ	1957		ABC	JASOND								
AIF	DHZ	1958		ABC	JFMAMJ JASO								
(006.47 193.05)													
ARCTIC VILLAGE	DHZ	1978										A	MAMJ JASOND*
AVI	DHZ	1979										A	JFMAMJ JASOND*
(021.87 214.43)	DHZ	1980										A	JFMAM A OND*
	DHZ	1981										A	JFMAMJ J *
ARGENTINE ISLAND	DHZ	1957	K	ABC	J JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
AIA	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(155.20 295.70)	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1967	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND								
	DHZ	1969		A	JFMAMJ JASOND								
	DHZ	1970	K	A	JFMAMJ JASOND								
	DHZ	1971		A	JFMAMJ JASOND								
	DHZ	1972		A	JFMAMJ JASOND								
	DHZ	1973		AB	JFMAMJ JASOND								
	DHZ	1974		ABC	JFMAMJ JASOND								
	DHZ	1975		ABC	JFMAMJ JASOND								
	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977		ABC	JFMAMJ JASOND								
	DHZ	1978		A C	JFMAMJ JASOND								
	DHZ	1979		A	JFMAMJ JASOND								
	DHZ	1980		A	JFMAMJ JASOND								
ARKHANGELSK	DHZ	1976		ABC	JFMA			ABC	JFMA				
ARK	DHZ	1977		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(025.40 040.50)	DHZ	1978		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979		ABC	MAMJ JASOND			ABC	FMAMJ JASOND				
	DHZ	1980		B	FMAMJ JASOND								
ARTI	DHZ	1957	K										
ARS	DHZ	1958	K										
(033.57 058.57)	DHZ	1959	K										
	DHZ	1960	K										
	DHZ	1961	K										
	DHZ	1962	K										
	DHZ	1963	K										
	DHZ	1964	K										
	DHZ	1965	K										
	DHZ	1966	K										

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
ARTI	DHZ	1967	K										
ARS	DHZ	1968	K										
(033.57 058.57)	DHZ	1969	K										
	DHZ	1970	K										
	DHZ	1971	K	B	JFMAMJ JASOND								
	DHZ	1972	K	AB	JFMAMJ JASOND								
	DHZ	1973	K	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1974	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1975	K	AB	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1976	K	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1977	K	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	BC	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	DHZ	1980	K	BC	JFMAMJ JASOND			BC	JFMAMJ JASOND				
ASHKHABAD	DHZ	1958	K	ABC	SOND	BC	J JASOND			B	JFMAMJ JASOND		
ASH	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
(052.05 058.10)	DHZ	1960	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1963	K	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ	ABC	JFMAMJ	ABC	JFMAMJ				
	DHZ	1971	K										
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1981	K	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
ASO	DHZ	1932						C	ASOND				
ASO	DHZ	1933						C	JFMAMJ JA				
(057.12 131.02)													
	DHZ	1957	K	ABC	JASOND			ABC	JASOND				
	DHZ	1958		ABC	AMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964		ABC	JFMAMJ JASOND								
	DHZ	1965		ABC	JFMAMJ JASOND								

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
AVERROES	DHZ	1966		A	J J OND								
AVE	DHZ	1967		A	JFMAMJ JASOND								
(056.70 352.58)	DHZ	1968		A	JFMAMJ JASOND								
	DHZ	1969		A	JFMAMJ JASOND								
	DHZ	1970	K	A	JFMAMJ JASOND								
	DHZ	1971	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1972	K	A	JFMAMJ JASOND			B	A				
	DHZ	1973		A	JFMAMJ JASOND								
	DHZ	1974		A	JFMAMJ JASOND								
	DHZ	1975		A	JFMAMJ JASOND								
	DHZ	1976	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1977		A	JFMAMJ JASOND			A	JFM				
	DHZ	1978		A	JFMAMJ JASOND								
	DHZ	1979		A	JFMAMJ JASOND								
	DHZ	1980		A	FM								
BACK	DHZ	1977										A	N *
BKC	DHZ	1978										A	AMJ JASO *
(032.32 265.77)	DHZ	1979										A	FMAMJ JASOND*
	DHZ	1980										A	FMAMJ J *
BAGUIO	DHZ	1961		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
BAG	DHZ	1962						A	JFMAMJ JASOND				
(073.58 120.60)	DHZ	1963						A	JFMAMJ JASOND				
	DHZ	1964		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	O	A	O
	DHZ	1965		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	M	A	M
	DHZ	1966		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	ASO D	A	ASO D
	DHZ	1967		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JF AMJ	A	JF AMJ
	DHZ	1968		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JASO	A	JASO
	DHZ	1969		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1970		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972		ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1973		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974		ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1975		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976		ABC	JFMAMJ JASOND	B	SOND	ABC	JFMAMJ JASOND				
	DHZ	1977		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1978		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1979		A C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1980		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1981		A	JFMAMJ JASOND								
	DHZ	1982		A	JFM								
BAKER LAKE	XYZ	1951	K	A	JFMAMJ JASOND								
BLC	XYZ	1952	K	A	JFMAMJ JASOND								
(025.67 263.97)	XYZ	1953	K	A	JFMAMJ JASOND								
	XYZ	1954	K	A	JFMAMJ JASOND								
	XYZ	1955	K	A	JFMAMJ JASOND								
	XYZ	1956		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1957		ABC	JASOND								

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
BAKER LAKE	XYZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
BLC	XYZ	1959		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(025.67 263.97)	XYZ	1960		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	XYZ	1961		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	XYZ	1962		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	XYZ	1963		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	XYZ	1964		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	XYZ	1965		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1966		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JAS ND
	XYZ	1967		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	AM ASOND
	XYZ	1968		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	MAMJ JASO
	XYZ	1969		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J JAS
	XYZ	1970		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	M	A	M
	XYZ	1971		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	ND	A	ND*
	XYZ	1972		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1973		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1974		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1975		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1976		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1977		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1978		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1979		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1980		A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1981		A C	JFMAMJ JASOND								
BALDWIN	DHZ	1901						A	JFMAMJ JASOND				
BAL	DHZ	1902						A	JFMAMJ JASOND				
(051.22 264.83)	DHZ	1903						A	JFMAMJ JASOND				
	DHZ	1904						A	JFMAMJ JASOND				
	DHZ	1905						A	JFMAMJ JASOND				
	DHZ	1906						A	JFMAMJ JASOND				
	DHZ	1907						A	JFMAMJ JASOND				
	DHZ	1908						A	JFMAMJ JASOND				
	DHZ	1909						A	JFMAMJ JAS				
BANGKOK	DHZ	1966						A	JFMAMJ JASOND				
BKK													
(076.28 100.57)													
BANGUI	DHZ	1955						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
BNG	DHZ	1956						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(085.57 018.57)	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ J			ABC	JFMAMJ J	A	JFMAMJ J		
	DHZ	1961		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	ASOND	A	ASOND
	DHZ	1962		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1963		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	ON
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	M ND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	AM ASO D

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
BANGUI	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JF AMJ
BNG	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JASO
(085.57 018.57)	DHZ	1970	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFM
	DHZ	1971	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1975	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1976	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1977	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1979	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1981	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1982		A	JF A			A	J A				
BARROW	DHZ	1949		A	OND								
BRW	DHZ	1950		A	JFMAMJ JASOND								
(018.70 203.25)	DHZ	1951		A	JFMAMJ JASOND								
	DHZ	1952		A	JFMAMJ JASOND								
	DHZ	1953		A	JFMAMJ JASOND								
	DHZ	1954		A	JFMAMJ JASOND								
	DHZ	1955		A	JFMAMJ JASOND								
	DHZ	1956		A	JFMAMJ JASOND								
	DHZ	1957	K	ABC	JFMAMJ JASOND	ABC	JASOND	BC	JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	SOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JAS	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1975		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFM MJ JASOND	A	MJ JASOND*
	DHZ	1976		AB	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1977		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1978		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1979		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1980						A	JFMAMJ	A	JFMAMJ	A	JFMAMJ *
BARTER ISLAND	DHZ	1957		ABC	MJ J SOND			ABC	MJ J SOND				
BTI													
(019.87 216.33)													

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
BARTER ISLAND	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
BTI	DHZ	1959		BC	J								
(019.87 216.33)													
BATAVIA	DHZ	1867						A	JASOND				
BTV	DHZ	1868						A	JFMAMJ JASOND				
(096.18 106.83)	DHZ	1869						A	JFMAMJ JASOND				
	DHZ	1870						A	JFMAMJ				
	DHZ	1882						A	JASOND				
	DHZ	1883						A	JFMAMJ JASOND				
	DHZ	1884						A	JFMAMJ JASOND				
	DHZ	1885						A	JFMAMJ JASOND				
	DHZ	1886						A	JFMAMJ JASOND				
	DHZ	1887						A	JFMAMJ JASOND				
	DHZ	1888						A	JFMAMJ JASOND				
	DHZ	1889						A	JFMAMJ JASOND				
	DHZ	1890						A	JFMAMJ JASOND				
	DHZ	1891						A	JFMAMJ JASOND				
	DHZ	1892						A	JFMAMJ JASOND				
	DHZ	1893						A	JFMAMJ JASOND				
	DHZ	1894						A	JFMAMJ JASOND				
	DHZ	1895						A	JFMAMJ JASOND				
	DHZ	1896						A	JFMAMJ JASOND				
	DHZ	1897						A	JFMAMJ JASOND				
	DHZ	1898						A	JFMAMJ JASOND				
	DHZ	1899						A	JFMAMJ JASOND				
	DHZ	1900						A	JFMAMJ JASOND				
	DHZ	1901						A	JFMAMJ JASOND				
	DHZ	1902						A	JFMAMJ JASOND				
	DHZ	1903						A	JFMAMJ JASOND				
	DHZ	1904						A	JFMAMJ JASOND				
	DHZ	1905						A	JFMAMJ JASOND				
	DHZ	1906						A	JFMAMJ JASOND				
	DHZ	1907						A	JFMAMJ JASOND				
	DHZ	1908						A	JFMAMJ JASOND				
	DHZ	1909						A	JFMAMJ JASOND				
	DHZ	1910						A	JFMAMJ JASOND				
	DHZ	1911						A	JFMAMJ JASOND				
	DHZ	1912						A	JFMAMJ JASOND				
	DHZ	1913						A	JFMAMJ JASOND				
	DHZ	1914						A	JFMAMJ JASOND				
	DHZ	1915						A	JFMAMJ JASOND				
	DHZ	1916						A	JFMAMJ JASOND				
	DHZ	1917						A	JFMAMJ JASOND				
	DHZ	1918						A	JFMAMJ JASOND				
	DHZ	1919						A	JFMAMJ JASOND				
	DHZ	1920						A C	JFMAMJ JASOND				
	DHZ	1921						A	JFMAMJ JASOND				
	DHZ	1922						A C	JFMAMJ JASOND				
	DHZ	1923						A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
BATAVIA	DHZ	1924						A	JFMAMJ JASOND				
BTV	DHZ	1925						A	JFMAMJ JASOND				
(096.18 106.83)	DHZ	1926						A	JFMAMJ JASOND				
	DHZ	1927						A	JFMAMJ JASOND				
	DHZ	1928						A	JFMAMJ JASOND				
	DHZ	1929						A	JFMAMJ JASOND				
	DHZ	1930						A	JFMAMJ JASOND				
	DHZ	1931						A	JFMAMJ JASOND				
	DHZ	1932						A C	JFMAMJ JASOND				
	DHZ	1933						A C	JFMAMJ JASOND				
	DHZ	1934						A	JFMAMJ JASOND				
	DHZ	1935						A	JFMAMJ JASOND				
	DHZ	1936						A	JFMAMJ JASOND				
	DHZ	1937						A	JFMAMJ JASOND				
	DHZ	1938						A	JFMAMJ JASOND				
	DHZ	1939						A	JFMAMJ JASOND				
	DHZ	1940						A	JFMAMJ JASOND				
BEAR ISLAND	DHZ	1956						C	JFMAMJ JASOND				
BJN	DHZ	1957	K										
(015.48 019.02)	DHZ	1958	K										
	DHZ	1959	K										
	DHZ	1960	K										
	DHZ	1961	K										
	DHZ	1962	K										
	DHZ	1963	K										
	DHZ	1964	K										
	DHZ	1965	K										
	DHZ	1974		ABC	JFMAMJ JASOND								
	DHZ	1975		ABC	JFMAMJ JASOND								
	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977		ABC	JFMAMJ JASOND								
	DHZ	1978		ABC	JFMAMJ JASOND								
	DHZ	1979		ABC	JFMAMJ JASOND								
	DHZ	1980		A C	JFMAMJ JASOND								
	DHZ	1981		A C	JFMAMJ JASO								
BEIJING	DHZ	1957						ABC	JFMAMJ JASOND				
BJI	DHZ	1958						ABC	JFMAMJ JASOND				
(049.97 116.17)	DHZ	1959						ABC	JFMAMJ JASOND				
	DHZ	1960						ABC	JFMAMJ JASOND				
	DHZ	1961						ABC	JFMAMJ JASOND				
	DHZ	1962						ABC	JFMAMJ JASOND				
	DHZ	1963						ABC	JFMAMJ JASOND				
	DHZ	1964						ABC	JFMAMJ JASOND				
	DHZ	1979						A	JFMAMJ JASOND				
BELIY ISLAND	DHZ	1972		B	MJ JASOND								
BEY													
(016.70 070.00)													

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
BELIY ISLAND	DHZ	1973		ABC	ND								
BEY	DHZ	1974		ABC	JFMAMJ JASOND								
(016.70 070.00)	DHZ	1975		ABC	JFMA J JASOND								
	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977		AB	JFMAMJ JASOND								
BELOIT	DHZ	1957		ABC	JASOND			ABC	JFMAMJ JASOND	A	JASOND		
BLT	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(050.52 261.87)	DHZ	1959		ABC	J			A	J				
BELSK	DHZ	1960	K										
BEL	DHZ	1961	K										
(038.17 020.80)	DHZ	1962	K										
	DHZ	1963	K										
	DHZ	1964	K										
	DHZ	1965	K										
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1968	K	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	B	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1971	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	B	JFMAMJ			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978	K					ABC	JFMAMJ JASOND				
	DHZ	1979	K					AB	JFMAMJ JASOND				
	DHZ	1980	K					A	JFMAMJ JASOND				
	DHZ	1981	K										
BIG DELTA	DHZ	1957		ABC	JASOND	ABC	JASOND	ABC	JASOND	A	JASOND		
BDE	DHZ	1958		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(026.00 214.27)	DHZ	1959		ABC	J	ABC	J	BC	J				
BINZA	DHZ	1954						A	JFMAMJ JASOND				
BIN	DHZ	1955						A	JFMAMJ JASOND				
(094.38 015.27)	DHZ	1956						A	JFMAMJ JASOND				
	DHZ	1957	K										
	DHZ	1958	K					BC	JFMAMJ JASOND				
	DHZ	1959	K										
	DHZ	1960	K										
	DHZ	1961	K	A	JFMAMJ JASOND								
	DHZ	1962	K	A	JFMAMJ JASOND								
	DHZ	1963	K	A	JFMAMJ JASOND								
	DHZ	1964	K	A	JFMAMJ JASOND								
	DHZ	1965	K	A	JFMAMJ JASOND								
	DHZ	1966	K	A	JFMAMJ JASOND								

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
BINZA	DHZ	1967	K	A	JFMAMJ JASOND								
BIN	DHZ	1968	K	ABC	JFMAMJ JASOND								
(094.38 015.27)	DHZ	1969	K	AB	JFMAMJ JASOND								
	DHZ	1970		A	JFMAMJ JASOND								
	DHZ	1971		A	JFMAMJ JASOND								
	DHZ	1972		A	JFMAMJ JASOND								
	DHZ	1973		A	JFMAMJ JASOND								
	DHZ	1974		A	JFMAMJ JASOND								
	DHZ	1975		A	JFMAMJ JASOND								
	DHZ	1976		A	JFMAMJ JASOND								
	DHZ	1977		A	JFMAMJ JASOND								
BOCHUM	DHZ	1902						A	JFMAMJ JASOND				
BOC	DHZ	1903						A	JFMAMJ JASOND				
(038.52 007.23)	DHZ	1904						A	JFMAMJ JASOND				
	DHZ	1905						A	JFMAMJ JASOND				
	DHZ	1906						A	JFMAMJ JASOND				
	DHZ	1907						A	JFMAMJ JASOND				
	DHZ	1908						A	JFMAMJ JASOND				
	DHZ	1909						A	JFMAMJ JASOND				
	DHZ	1910						A	JFMAMJ JASOND				
BODO	DHZ	1932						C	SOND				
BOD	DHZ	1933						C	JFMAMJ JA				
(020.70 014.42)													
BOROK	DHZ	1957	K			AB	JFMA ASOND						
BOX	DHZ	1958	K			ABC	JFMAMJ JASOND						
(031.97 038.97)	DHZ	1959	K			ABC	JFMAMJ JASOND						
	DHZ	1960	K			ABC	JFMAMJ JASOND						
	DHZ	1961	K			ABC	JFMAMJ JASOND						
	DHZ	1962	K			AB	JFMAMJ JASOND						
	DHZ	1963	K			ABC	JFMAMJ JASOND						
	DHZ	1964	K			ABC	JFMAMJ JASOND						
	DHZ	1965	K			ABC	JFMAMJ JASOND						
	DHZ	1966	K			ABC	JFMAMJ JASOND						
	DHZ	1970				B	JASOND						
	DHZ	1971				B	JFMAMJ JASOND						
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1981		AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
BOSSEKOP	DHZ	1932						C	OND				
BOP	DHZ	1933						C	JFMAMJ JA				
(020.03 023.25)													
BOULDER	DHZ	1961		A	JFMAMJ JASOND								
BOU													
(049.87 254.77)													

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
BOULDER	DHZ	1962		A	JFMAMJ JASOND								
BOU	DHZ	1963	K	ABC	JFMAMJ JASOND			A C	AMJ JASOND				
(049.87 254.77)	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	MJ JASOND	ABC	JFMAMJ JASOND	A	J SOND	A	J SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	AMJ JASOND*
	DHZ	1979						A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1980						A	JFMAMJ	A	JFMAMJ	A	JFMAMJ JASOND*
	DHZ	1981										A	JFMAMJ JASOND*
	DHZ	1982										A	JFMAM *
BRISBANE	DHZ	1957	K										
BRS	DHZ	1958	K										
(117.53 152.92)	DHZ	1959	K										
	DHZ	1960	K										
	DHZ	1961	K										
	DHZ	1962	K										
	DHZ	1963	K										
	DHZ	1964	K										
BUDAKESZI	DHZ	1949						A	JFMAMJ JASOND				
BUZ	DHZ	1950						A	JFMAMJ JASOND				
(042.48 018.90)	DHZ	1951						A	JFMAMJ JASOND				
	DHZ	1952						A	JFMAMJ JASOND				
	DHZ	1953						A	JFMAMJ JASOND				
	DHZ	1954						A	JFMAMJ JASOND				
BUDKOV	DHZ	1957	K					B	JFMAMJ JASOND				
BDV	DHZ	1958	K	C	JF			BC	JFMAMJ JASOND				
(040.93 014.02)	DHZ	1959	K					BC	JFMAMJ JASOND				
	DHZ	1960	K					A	JFMAMJ JASOND				
	DHZ	1961	K					AB	JFMAMJ JASOND				
	DHZ	1962	K					AB	JFMAMJ JASOND				
	DHZ	1963	K					AB	JFMAMJ JASOND				
	DHZ	1964	K					AB	JFMAMJ JASOND				
	DHZ	1965	K					AB	JFMAMJ JASOND				
	DHZ	1966	K					A	JFMAMJ JASOND				
	DHZ	1967	K					AB	JFMAMJ JASOND				
	DHZ	1968	K					AB	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
BUDKOV	DHZ	1969	K					A C	JFMAMJ JASOND				
BDV	DHZ	1970	K					AB	JFMAMJ JASOND				
(040.93 014.02)	DHZ	1971	K					AB	JFMAMJ JASOND				
	DHZ	1972	K					B	JFMAMJ JASOND				
	DHZ	1973	K					B	JFMAMJ JASOND				
	DHZ	1974	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1975	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1976	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1977	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1978	K	A	JFMAMJ			A	JFMAMJ				
	DHZ	1979	K										
	DHZ	1980	K										
	DHZ	1981	K										
BURLINGTON	DHZ	1957		ABC	J JASOND			ABC	J JASOND				
BRT	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(050.72 257.82)	DHZ	1959		ABC	J			ABC	J				
BYRD STATION	DHZ	1957	K	ABC	JASOND	BC	D	ABC	ASOND	A	ASOND		
BYR	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(170.00 240.50)	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1963	K	AB	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1964	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966		AB	JFMAMJ JASOND	A	JFMAMJ JASOND						
	DHZ	1967	K	AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ	A	JFMAMJ	A	JFMAMJ
	DHZ	1969	K	AB	JFMAMJ JASOND	A	JFMAMJ JASOND						
	DHZ	1970	K	AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	MJ ND	A	MJ ND	A	MJ ND
	DHZ	1971	K	AB	JFMAMJ JASO	A	JFMAMJ JASO						
CAMBRIDGE BAY	XYZ	1972		ABC	JASOND			AB	JFMAMJ JASOND	A	AMJ JASOND	A	AMJ JASOND*
CBB	XYZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
(020.90 255.00)	XYZ	1974		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1975		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1976	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1977	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1979		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1980		A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1981		A	JFMAMJ JASOND								
CAMPBELL ISLAND	DHZ	1979	K										
CAI	DHZ	1980	K										
(142.50 169.20)	DHZ	1981	K										
CANARIAS	DHZ	1961	K					ABC	JFMAMJ JASOND				
TEN													
(061.52 343.72)													

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
CANARIAS	DHZ	1962	K					ABC	JFMAMJ JASOND				
TEN	DHZ	1963	K					ABC	JFMAMJ JASOND				
(061.52 343.72)	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ J O
	DHZ	1966	K	ABC	JFMAM			ABC	JFMAMJ JASOND	A	M	A	M
	DHZ	1967	K	C	M			ABC	JFMAMJ JASOND				
	DHZ	1968	K					ABC	JFMAMJ JASOND				
	DHZ	1969	K					ABC	JFMAMJ JASOND				
	DHZ	1970	K					ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1979	K	A C	JFMAMJ JASOND			A	OND				
	DHZ	1980	K	A	JFMAMJ								
	DHZ	1981	K										
CANBERRA	DHZ	1979	K					A	SOND	A	SOND		
CAN	DHZ	1980	K					A	JFMAM	A	JFMAM		
(125.30 149.00)	DHZ	1981	K										
CAPE CHELYUSKIN	DHZ	1955	K										
CCS	DHZ	1956	K										
(012.28 104.28)	DHZ	1957	K	BC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
CAPE CHELYUSKIN	DHZ	1978	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
CCS	DHZ	1979	K	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
(012.28 104.28)	DHZ	1980	K	AB	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1981		A	JFMAMJ JASOND								
CAPE GOOD HOPE	DHZ	1841						A	AMJ JASOND				
CGH	DHZ	1842						A	JFMAMJ JASOND				
(123.93 018.48)	DHZ	1843						A	JFMAMJ JASOND				
	DHZ	1844						A	JFMAMJ JASOND				
	DHZ	1845						A	JFMAMJ JASOND				
	DHZ	1846						A	JFMAMJ				
CAPE HALLETT	DHZ	1957	K	ABC	JASOND			A	JASOND				
HLL	DHZ	1958	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
(162.32 170.22)	DHZ	1959	K	ABC	JFMAMJ JASOND								
	DHZ	1960	K	ABC	JFMAMJ JASOND								
	DHZ	1961	K	ABC	JFMAMJ JASOND								
	DHZ	1962	K	ABC	JFMAMJ JASOND								
CAPE KAMENNIY	DHZ	1973		ABC	ND								
CKA	DHZ	1974		ABC	JFMAMJ JASOND								
(021.50 073.60)	DHZ	1975		ABC	JFMAMJ JASOND								
	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977		B	JFMAMJ JASOND								
CAPE PARRY	DHZ	1977										A	ND*
CPY	DHZ	1978										A	JFMAMJ JASOND*
(019.83 235.28)	DHZ	1979										A	JFMAMJ JASOND*
	DHZ	1980										A	JFMAMJ JASOND*
	DHZ	1981										A	JFMAMJ JA OND*
	DHZ	1982										A	J MAM *
CAPE SCHMIDT	DHZ	1967		B	JASOND								
CPS	DHZ	1968		B	JASOND								
(021.08 180.52)	DHZ	1973		B	JFMAMJ								
CAPE TOWN	DHZ	1932						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
CTO	DHZ	1933						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(123.95 018.47)	DHZ	1934						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1935						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1936						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1937						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1938						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1939						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1940	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
CAPE WELLEN	DHZ	1952	K										
CWE	DHZ	1953	K										
(023.83 190.17)	DHZ	1954	K										

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
CAPE WELLEN	DHZ	1955	K										
CWE	DHZ	1956	K										
(023.83 190.17)	DHZ	1957	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1975	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1976	K	ABC	JFMAMJ JASOND								
	DHZ	1977	K	ABC	JFMAMJ JASOND								
	DHZ	1978	K	ABC	JFMAMJ JASOND								
	DHZ	1979	K	ABC	JFMAMJ JASOND								
	DHZ	1980	K	AB	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1981		A	JFMAMJ JASOND								
CAPE ZHELANIA	DHZ	1973		ABC	ND								
CZA	DHZ	1974		ABC	JF OND								
(013.00 068.60)	DHZ	1975		B	JFMAMJ JASO								
	DHZ	1976		B	JFMAMJ JASO								
CAPRI	DHZ	1957	K	ABC	JASOND			ABC	JASOND				
CPI	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(049.45 014.22)	DHZ	1959		ABC	JFMAMJ JA			ABC	JFMAMJ JA				
	DHZ	1961		ABC	FMAMJ JASOND			ABC	FMAMJ JASOND				
	DHZ	1962		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1965		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1966		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1967		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1968		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970		AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971		AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	YEAR K COMP		WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
CAPRI	DHZ	1974	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
CPI	DHZ	1975	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(049.45 014.22)	DHZ	1976	A	JFMAMJ								
CARROLLTON	DHZ	1957	ABC	JASOND								
CAX	DHZ	1958	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(050.63 266.53)	DHZ	1959	ABC	JF			AB	J				
CASPER	DHZ	1957	ABC	JASOND			ABC	ASOND				
CSR	DHZ	1958	ABC	JFMAMJ JASOND			ABC	JF AMJ JASON				
(047.15 253.70)	DHZ	1959	AB	JF								
CASTELLACCIO	DHZ	1933					A	JFMAMJ JASOND				
CAO	DHZ	1934					A	JFMAMJ JASOND				
(045.57 008.93)	DHZ	1935					A	JFMAMJ JASOND				
	DHZ	1936					A	JFMAMJ JASOND				
	DHZ	1937					A	JFMAMJ JASOND				
	DHZ	1938					A	JFMAMJ JASOND				
	DHZ	1939					A	JFMAMJ JASOND				
	DHZ	1940					A	JFMAMJ JASOND				
	DHZ	1941					A	JFMAMJ JASOND				
	DHZ	1942					A	JFMAMJ JASOND				
	DHZ	1943					A	JFMAMJ JASOND				
	DHZ	1944					A	JFMAMJ JASOND				
	DHZ	1945					A	JFMAMJ JASOND				
	DHZ	1946					A	JFMAMJ JASOND				
	DHZ	1947					A	JFMAMJ JASOND				
	DHZ	1957	AB	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1961	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1962	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
CASTLE ROCK	DHZ	1970					A	AMJ JASOND	A	AMJ JASOND	A	AMJ JASOND
CRC	DHZ	1971					A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
(052.77 237.87)	DHZ	1972					A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973					A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974					A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
CEBU	DHZ	1961	ABC	JASOND								
CCP												
(079.70 123.90)												
CHA PA	DHZ	1957	ABC	ASOND			ABC	SOND				
CPA	DHZ	1958	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(067.65 103.83)	DHZ	1959	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961					B	JFMAMJ JASOND				
	DHZ	1962					B	JFMAMJ JASOND				
	DHZ	1963					B	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
CHA PA													
CPA	DHZ	1967						B	JFMAMJ JASOND				
(067.65 103.83)													
CHAMBON-LA-FORET	DHZ	1936						A	JFMAMJ JASOND				
CLF	DHZ	1937						A	JFMAMJ JASOND				
(041.98 002.27)	DHZ	1938						A	JFMAMJ JASOND				
	DHZ	1939						A	JFMAMJ JASOND				
	DHZ	1940	K					A	JFMAMJ JASOND				
	DHZ	1941	K					A	JFMAMJ JASOND				
	DHZ	1942	K					A	JFMAMJ JASOND				
	DHZ	1943	K					A	JFMAMJ JASOND				
	DHZ	1944	K					A	JFMAMJ JASOND				
	DHZ	1945	K					A	JFMAMJ JASOND				
	DHZ	1946	K					A	JFMAMJ JASOND				
	DHZ	1947	K					A	JFMAMJ JASOND				
	DHZ	1948	K					A	JFMAMJ JASOND				
	DHZ	1949	K					A	JFMAMJ JASOND				
	DHZ	1950	K					A	JFMAMJ JASOND				
	DHZ	1951	K					A	JFMAMJ JASOND				
	DHZ	1952	K					A	JFMAMJ JASOND				
	DHZ	1953	K					A	JFMAMJ JASOND				
	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K					A	JFMAMJ JASOND				
	DHZ	1956	K					A	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JFMAMJ JASOND	AB	JASOND	AB	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND								
	DHZ	1966	K	ABC	JFMAMJ JASOND								
	DHZ	1967	K	ABC	JFMAMJ JASOND								
	DHZ	1968	K	ABC	JFMAMJ JASOND								
	DHZ	1969	K	ABC	JFMAMJ JASOND								
	DHZ	1970	K	ABC	JFMAMJ JASOND								
	DHZ	1971	K	ABC	JFMAMJ JASOND								
	DHZ	1972	K	ABC	JFMAMJ JASOND								
	DHZ	1973	K	ABC	JFMAMJ JASOND								
	DHZ	1974	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1975	K					A C	JFMAMJ JASOND				
	DHZ	1976	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1977	K					ABC	JFMAMJ JASOND				
	DHZ	1978	K					A C	JFMAMJ JASOND				
	DHZ	1979	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1980	K	A	JFMA			A	JFMAMJ JASOND				
	DHZ	1981	K										

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
CHARACATO	DHZ	1959		A	AMJ JASOND								
ARE	DHZ	1960		A	F AMJ JASOND								
(106.47 288.52)	DHZ	1961		A	JFMAMJ JASOND								
	DHZ	1962		A	JFMAMJ JASOND								
	DHZ	1963		A	JFM MJ JASOND								
	DHZ	1964		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1965		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1966		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1967		A	JFMAMJ JASOND								
	DHZ	1968		ABC	JFMAMJ JASOND								
	DHZ	1969		ABC	JFMAMJ JASOND								
	DHZ	1970		ABC	JFMAMJ JASOND								
	DHZ	1971		A	JFMAMJ ASOND								
	DHZ	1972		A	JFMAMJ JASOND								
	DHZ	1973		A	JFMAMJ JASOND								
	DHZ	1974		A	JFMAM ND								
	DHZ	1975		A	JFMAMJ JASOND								
CHARCOT	XYZ	1957	K					AB	MJ JASOND				
CTX	XYZ	1958	K					AB	JF JASOND				
(159.38 139.02)													
CHATONNAYE	DHZ	1967						B	JFMAM ASOND				
CTE	DHZ	1968						B	J J SO D				
(043.33 006.83)	DHZ	1969						B	J ASOND				
	DHZ	1970						B	A				
CHELTENHAM	DHZ	1901		A	AMJ JASOND			A	AMJ JASOND	A	AMJ JASOND		
CLH	DHZ	1902		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(051.30 283.20)	DHZ	1903		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1904		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1905		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1906		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1907		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1908		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1909		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1910		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1911		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1912		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1913		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1914		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1915		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1916		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1917		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1918		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1919		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1920		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1921		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1922		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1923		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1924		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1925		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
CHELTENHAM	DHZ	1926		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
CLH	DHZ	1927		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(051.30 283.20)	DHZ	1928		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1929		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1930		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1931		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1932		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1933		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1934		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1935		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1936		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1937	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1938	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1939	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1940	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1941	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1942	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1943	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1944	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1945	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1946	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1947	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1948	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1949	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1950	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1951	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1952	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1953	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1954	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1955	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1956	K	A	JFMAMJ JAS			A	JFMAMJ JAS	A	JFMAMJ JAS		
CHESTERFIELD INL	DHZ	1932						A	SOND				
CFI	DHZ	1933						A	JFMAMJ JA				
(026.67 269.28)													
CHICHIJIMA	DHZ	1973						A	JFMAMJ JASOND				
CBI	DHZ	1974						A	JFMAMJ JASOND				
(062.90 142.20)	DHZ	1975						A	JFMAMJ JASOND				
	DHZ	1976						A	JFMAMJ JASOND				
CHICLAYO	DHZ	1957		ABC	ASOND			ABC	ASOND				
CCL	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(096.80 280.20)	DHZ	1959		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960		ABC	JF			ABC	JF				
CHIMBOTE	DHZ	1957		ABC	OND			ABC	OND				
CMB	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(099.10 281.40)	DHZ	1959		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960		ABC	J			ABC	J				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
CHIMBOTE	DHZ	1974						B	JFMAMJ JASOND				
CMB	DHZ	1975						B	JFMAMJ JASOND				
(099.10 281.40)													
CHRISTCHURCH	DHZ	1928						A	JFMAMJ JASOND				
CHR	DHZ	1929						A	JFMAMJ JASOND				
(133.53 172.62)	DHZ	1930						A	JFMAMJ JASOND				
	DHZ	1931						A C	JFMAMJ JASOND				
	DHZ	1932						A C	JFMAMJ JASOND				
	DHZ	1933						A C	JFMAMJ JASOND				
	DHZ	1934						A	JFMAMJ JASOND				
	DHZ	1935						A	JFMAMJ JASOND				
	DHZ	1936						A	JFMAMJ JASOND				
	DHZ	1937						A	JFMAMJ JASOND				
	DHZ	1938						A	JFMAMJ JASOND				
	DHZ	1939						A	JFMAMJ JASOND				
	DHZ	1940						C	JFMAMJ JASOND				
	DHZ	1941						C	JFMAMJ JASOND				
	DHZ	1942						C	JFMAMJ JASOND				
	DHZ	1943						C	JFMAMJ JASOND				
	DHZ	1944						C	JFMAMJ JASOND				
	DHZ	1945						C	JFMAMJ JASOND				
CLIMAX	DHZ	1957		BC	J JASOND			BC	J JASOND				
CLI	DHZ	1958		BC	JFMAMJ JASOND			BC	MJ JASOND				
(050.63 253.82)	DHZ	1959		BC	J			B	J				
COIMBRA	DHZ	1921						A	JFMAMJ JASOND				
COI	DHZ	1922						A	JFMAMJ JASOND				
(049.78 351.58)	DHZ	1923						A	JFMAMJ JASOND				
	DHZ	1924						A	JFMAMJ JASOND				
	DHZ	1925						A	JFMAMJ JASOND				
	DHZ	1926						A	JFMAMJ JASOND				
	DHZ	1927						A	JFMAMJ JASOND				
	DHZ	1928						A	JFMAMJ JASOND				
	DHZ	1929						A	JFMAMJ JASOND				
	DHZ	1938						A	JFMAMJ JASOND				
	DHZ	1939						A	JFMAMJ J				
	DHZ	1940						A	JFMAMJ JASOND				
	DHZ	1941						A	JFMAMJ JASOND				
	DHZ	1951						A	OND				
	DHZ	1952	K					A	JFMAMJ JASOND				
	DHZ	1953	K					A	JFMAMJ JASOND				
	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K					A	JFMAMJ JASOND				
	DHZ	1956	K					A	JFMAMJ JASOND				
	DHZ	1957	K	A	JASOND			A	JFMAMJ JASOND				
	DHZ	1958	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1959	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
COIMBRA	DHZ	1960	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
COI	DHZ	1961	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
(049.78 351.58)	DHZ	1962	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1963	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1964	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1967	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1968	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1969	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1970	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1971	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1972	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1973	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1974	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1975	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1976	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1977	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1978	K					A	JFMAMJ JASOND				
	DHZ	1979	K										
	DHZ	1980	K										
	DHZ	1981	K										
COLLEGE	DHZ	1932						A	OND				
CMO	DHZ	1933						A	JFMAMJ JASOND				
(025.13 212.17)	DHZ	1934						A	JFM				
	DHZ	1941	K	A	JASOND								
	DHZ	1942	K	A	JFMAMJ JASOND								
	DHZ	1943	K	A	JFMAMJ JASOND								
	DHZ	1944	K	A	JFMAMJ JASOND								
	DHZ	1945	K	A	JFMAMJ JASOND								
	DHZ	1946	K	A	JFMAMJ JASOND								
	DHZ	1947	K	A	JFMAMJ JASOND								
	DHZ	1948	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1949	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1950	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1951	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1952	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1953	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1954	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1955	K	A C	JFMAMJ JASOND	A	JASOND	A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1956	K	A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1957	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	OND
	DHZ	1963	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JA

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
COLLEGE	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAM SOND
CMO	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
(025.13 212.17)	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1975	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1976	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1977	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1978	K	ABC	JFMAMJ JASOND	AB	JFM	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	MAMJ JASOND*
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1981	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1982	K					A	JFMAMJ J			A	JFMAM *
COLLMBERG	DHZ	1954	K										
CLL	DHZ	1955	K										
(038.68 013.00)	DHZ	1956	K										
	DHZ	1957	K										
	DHZ	1958	K										
	DHZ	1959	K										
	DHZ	1960	K										
	DHZ	1961	K										
	DHZ	1962	K										
	DHZ	1963	K										
	DHZ	1964	K										
	DHZ	1965	K										
	DHZ	1966	K										
	DHZ	1967	K										
COPENHAGEN	DHZ	1892						A	AMJ JASOND				
COP	DHZ	1893						A	JFMAMJ JASOND				
(034.32 012.58)	DHZ	1894						A	JFMAMJ JASOND				
	DHZ	1895						A	JFMAMJ JASOND				
	DHZ	1896						A	JFMAMJ JASOND				
	DHZ	1897						A	JFMAMJ JASOND				
	DHZ	1898						A	JFMAMJ JASOND				
	DHZ	1899						A	JFMAMJ JASOND				
	DHZ	1900						A	JFMAMJ JASOND				
COSTA RICA	DHZ	1979		A	D			A	OND				
SNJ													
(080.08 276.03)													
CUZCO	DHZ	1965		A	OND								
CUS	DHZ	1966		A	JFMAM								
(103.53 288.03)													

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
DALLAS	DHZ	1964		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J
DAL	DHZ	1965		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
(057.02 263.25)	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFM	A	JFM
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	MAMJ JASOND
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ
	DHZ	1975		ABC	JFMAM			B	JFMAM				
DAR ES SALAAM	DHZ	1968		A	ASOND								
DRS	DHZ	1969		AB	JFMAMJ JASOND								
(096.78 039.22)	DHZ	1970		B	JFMAMJ JASOND								
	DHZ	1971		B	JFMAMJ JASOND								
	DHZ	1972		ABC	JFMAMJ JASOND								
	DHZ	1973		AB	JFMAMJ JASOND								
	DHZ	1974		AB	JFMAM								
	DHZ	1976		A	JFMAMJ JAS								
DAVAO	DHZ	1965		ABC	AMJ JASOND								
DAV	DHZ	1966		ABC	JFMAMJ JASOND								
(082.92 125.58)	DHZ	1967		ABC	JFMAMJ JASOND								
	DHZ	1968		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1969		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1970		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1971		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973		ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1974		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975		ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1976		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1979		A C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1980		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1981		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1982	K	A	JFM								
DE BILT	DHZ	1903						A	JFMAMJ JASOND				
DBN	DHZ	1904						A	JFMAMJ JASOND				
(037.90 005.18)	DHZ	1905						A	JFMAMJ JASOND				
	DHZ	1906						A	JFMAMJ JASOND				
	DHZ	1907						A	JFMAMJ JASOND				
	DHZ	1908						A	JFMAMJ JASOND				
	DHZ	1909						A	JFMAMJ JASOND				
	DHZ	1910						A	JFMAMJ JASOND				
	DHZ	1911						A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
DE BILT	DHZ	1912						A	JFMAMJ JASOND				
DBN	DHZ	1913						A	JFMAMJ JASOND				
(037.90 005.18)	DHZ	1914						A	JFMAMJ JASOND				
	DHZ	1915						A	JFMAMJ JASOND				
	DHZ	1916						A	JFMAMJ JASOND				
	DHZ	1917						A	JFMAMJ JASOND				
	DHZ	1918						A	JFMAMJ JASOND				
	DHZ	1919						A	JFMAMJ JASOND				
	DHZ	1920						A	JFMAMJ JASOND				
	DHZ	1921						A	JFMAMJ JASOND				
	DHZ	1922						A	JFMAMJ JASOND				
	DHZ	1923						A	JFMAMJ JASOND				
	DHZ	1924						A	JFMAMJ JASOND				
	DHZ	1925						A	JFMAMJ JASOND				
	DHZ	1926						A	JFMAMJ JASOND				
	DHZ	1927						A	JFMAMJ JASOND				
	DHZ	1928						A	JFMAMJ JASOND				
	DHZ	1929						A	JFMAMJ JASOND				
	DHZ	1930						A	JFMAMJ JASOND				
	DHZ	1931						A	JFMAMJ JASOND				
	DHZ	1932						A C	JFMAMJ JASOND				
	DHZ	1933						A C	JFMAMJ JASOND				
	DHZ	1934						A C	JFMAMJ JASOND				
	DHZ	1935						A C	JFMAMJ JASOND				
	DHZ	1936						A C	JFMAMJ JASOND				
	DHZ	1937						A C	JFMAMJ JASOND				
	DHZ	1938						A	JFMAMJ JASOND				
DIXON ISLAND	DHZ	1955	K										
DIK	DHZ	1956	K										
(016.45 080.57)	DHZ	1957	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
DIXON ISLAND	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
DIK	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(016.45 080.57)	DHZ	1979	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND								
DOMBAS	DHZ	1916						C	AMJ JASOND				
DOB	DHZ	1917						C	JFMAMJ JASOND				
(027.93 009.12)	DHZ	1918						C	JFMAMJ JASOND				
	DHZ	1919						C	JFMAMJ JASOND				
	DHZ	1920						C	JFMAMJ JASOND				
	DHZ	1921						C	JFMAMJ JASOND				
	DHZ	1922						C	JFMAMJ JASOND				
	DHZ	1923						C	JFMAMJ JASOND				
	DHZ	1924						C	JFMAMJ JASOND				
	DHZ	1925						C	JFMAMJ JASOND				
	DHZ	1926						C	JFMAMJ JASOND				
	DHZ	1927						C	JFMAMJ JASOND				
	DHZ	1928						C	JFMAMJ JASOND				
	DHZ	1929						C	JFMAMJ JASOND				
	DHZ	1930						C	JFMAMJ JASOND				
	DHZ	1931						C	JFMAMJ JASOND				
	DHZ	1932						C	JFMAMJ JASOND				
	DHZ	1940	K										
	DHZ	1941	K										
	DHZ	1942	K										
	DHZ	1943	K										
	DHZ	1944	K										
	DHZ	1945	K										
	DHZ	1946	K										
	DHZ	1947	K										
	DHZ	1948	K										
	DHZ	1949	K										
	DHZ	1950	K										
	DHZ	1951	K										
	DHZ	1952	K					A	JFMAMJ JASOND				
	DHZ	1953	K					A C	JFMAMJ JASOND				
	DHZ	1954	K					A C	JFMAMJ JASOND				
	DHZ	1955	K					A C	JFMAMJ JASOND				
	DHZ	1956	K					A C	JFMAMJ JASOND				
	DHZ	1957	K					A C	JFMAMJ JASOND				
	DHZ	1958	K					ABC	JFMAMJ JASOND				
	DHZ	1959	K					ABC	JFMAMJ JASOND				
	DHZ	1960	K					ABC	JFMAMJ JASOND				
	DHZ	1961	K					ABC	JFMAMJ JASOND				
	DHZ	1962	K					ABC	JFMAMJ JASOND				
	DHZ	1963	K					ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
DOMBAS	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
DOB	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(027.93 009.12)	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	J JAS	A	J JAS
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1977	K	A C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1980	K	A C	JFMAMJ JASOND								
	DHZ	1981	K	A	JFMAMJ								
DOURBES	DHZ	1955	K										
DOU	DHZ	1956	K										
(039.90 004.60)	DHZ	1957	K	ABC	JASOND	AB	JASOND	ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1981	K										
DUMONT DURVILLE	DHZ	1951						A	AMJ JASOND				
DRV	DHZ	1952						A	J				
(156.67 140.02)	DHZ	1957	K	ABC	AMJ JASOND			ABC	AMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
DUMONT DURVILLE	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
DRV	DHZ	1961	K					A	JFMAMJ JASOND	B	JFMAMJ JASOND		
(156.67 140.02)	DHZ	1962	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1974	K	BC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1976	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1979	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1980	K	A	JFMAMJ JASOND								
EASTER ISLAND	DHZ	1958		ABC	M MJ JA ON								
EIC													
(117.17 250.58)	DHZ	1960		ABC	JFMAMJ JASOND								
	DHZ	1961		ABC	JFMAMJ J								
	DHZ	1963		ABC	JFMAMJ JASOND			A C	FMAMJ JASOND				
	DHZ	1964		A	JFMAMJ JASOND			A	J	A	J	A	J
EBRO	DHZ	1910						A	JFMAMJ JASOND				
EBR	DHZ	1911						A	JFMAMJ JASOND				
(049.18 000.50)	DHZ	1912						A	JFMAMJ JASOND				
	DHZ	1913						A	JFMAMJ JASOND				
	DHZ	1914						A	JFMAMJ JASOND				
	DHZ	1915						A	JFMAMJ JASOND				
	DHZ	1916						A	JFMAMJ JASOND				
	DHZ	1917						A	JFMAMJ JASOND				
	DHZ	1918						A	JFMAMJ JASOND				
	DHZ	1919						A	JFMAMJ JASOND				
	DHZ	1920						A	JFMAMJ JASOND				
	DHZ	1921						A	JFMAMJ JASOND				
	DHZ	1922						A	JFMAMJ JASOND				
	DHZ	1923						A	JFMAMJ JASOND				
	DHZ	1924						A	JFMAMJ JASOND				
	DHZ	1925						A	JFMAMJ JASOND				
	DHZ	1926						A	JFMAMJ JASOND				
	DHZ	1927						A	JFMAMJ JASOND				
	DHZ	1928						A	JFMAMJ JASOND				
	DHZ	1929						A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS		WDC	RAPID RUN MAGNETOGRAMS		WDC	HOURLY VALUES ANY MEDIUM		WDC	HOURLY VALUES ON TAPE		WDC	2.5-MINUTE 1.0-MINUTE (*)	
EBRO	DHZ	1930								A	JFMAM	JASOND						
EBR	DHZ	1931								A	JFMAMJ	OND						
(049.18 000.50)	DHZ	1932								A C	JFMAMJ	JASOND						
	DHZ	1933								A C	F AMJ	JASOND						
	DHZ	1934								A C	JFM	JASOND						
	DHZ	1935								A	JFMAMJ	JASOND						
	DHZ	1936								A	JFMAMJ	JASOND						
	DHZ	1937								A	JFMAMJ	JASOND						
	DHZ	1942	K															
	DHZ	1943	K															
	DHZ	1944	K															
	DHZ	1945	K															
	DHZ	1946	K															
	DHZ	1947	K															
	DHZ	1948	K															
	DHZ	1949	K															
	DHZ	1950	K															
	DHZ	1951	K															
	DHZ	1952	K															
	DHZ	1953	K															
	DHZ	1954	K															
	DHZ	1955	K															
	DHZ	1956	K															
	DHZ	1957	K	ABC		JASOND				ABC		JASOND						
	DHZ	1958	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1959	K							ABC	JFMAMJ	JASOND						
	DHZ	1960	K															
	DHZ	1961	K															
	DHZ	1962	K															
	DHZ	1963	K															
	DHZ	1964	K	ABC	JFMAMJ	JASOND												
	DHZ	1965	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1966	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	A	JFMAMJ	JASO	A	JFMAMJ	JASO
	DHZ	1967	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	A		S	A		S
	DHZ	1968	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1969	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1970	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1971	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1972	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1973	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1974		ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND	A C	JFMAMJ	JASOND						
	DHZ	1975		ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1976		ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1977		A	JFMAMJ	JASOND				A	JFMAMJ	JASOND						
	DHZ	1978		A	JFMAMJ	JASOND				A	JFMAMJ	JASOND						
	DHZ	1979		A	JFMAMJ	JASOND				A	JFMAMJ	JASOND						
EIELSON AFB	XYZ	1966		ABC		SOND												
ENB	XYZ	1967		ABC	JFMAMJ	JASOND												
(025.33 212.92)																		

OBSERVATORY	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
	COMP											
EIELSON AFB	XYZ 1968		ABC	JFMAMJ JASOND								
ENB	XYZ 1969		ABC	JFMAMJ JASOND								
(025.33 212.92)	XYZ 1970		ABC	JFMAMJ JASOND								
	XYZ 1971		ABC	JFMAMJ JASOND								
	XYZ 1972		ABC	JFMAMJ JASOND								
	XYZ 1973		A	JFMAMJ JASOND								
	XYZ 1974		A	JFMAMJ JASOND								
	XYZ 1976		B	JFMAMJ JASOND								
EIGHTS	DHZ 1963	K	A	J JASOND			A	J JASOND				
EGS	DHZ 1964	K	A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND	A	SOND
(165.23 282.83)	DHZ 1965	K	A	JFMAMJ JASO	A	JFMAMJ JASO	A	JFMAMJ JASO	A	JFMAMJ JAS	A	JFMAMJ JAS
ENKOPING	DHZ 1965				B	JFMAMJ JASOND						
ENK	DHZ 1966				B	JFMAMJ JASOND						
(030.40 017.02)	DHZ 1967				B	JFMAMJ JASOND						
	DHZ 1968				B	JFMAMJ JASOND						
	DHZ 1969				B	JFMAMJ JASOND						
	DHZ 1970				B	JFMAMJ JASOND						
	DHZ 1971				B	JFMAMJ						
	DHZ 1972				A C	JFMAMJ JASOND						
	DHZ 1973				C	JFMAMJ JASOND						
	DHZ 1974				A C	JFMAMJ JASOND						
	DHZ 1975				A	JFMAMJ JASOND						
	DHZ 1977				A C	JFMAMJ JASOND						
	DHZ 1978				A C	JFMAMJ JASOND						
	DHZ 1979				A	JFMAMJ JASOND						
	DHZ 1980				A	JFMAMJ JASOND						
ESKDALEMUIR	DHZ 1911						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
ESK	DHZ 1912						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(034.68 356.80)	DHZ 1913						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1914						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1915						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1916						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1917						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1918						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1919						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1920						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1921						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1922						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1923						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1924						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1925						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1926						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1927						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1928						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1929						A	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
ESKDALEMUIR	DHZ	1930						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
ESK	DHZ	1931						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(034.68 356.80)	DHZ	1932						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1933						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1934						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1935						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1936						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1937						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1938						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1939						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1940	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1941	K					A	JFMAMH JASOND	A	JFMAMJ JASOND		
	DHZ	1942	K					A	JFMAMH JASOND	A	JFMAMJ JASOND		
	DHZ	1943	K					A	JFMAMH JASOND	A	JFMAMJ JASOND		
	DHZ	1944	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1945	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1946	K					A	JFMAMJ JASOND				
	DHZ	1947	K					A	JFMAMJ JASOND				
	DHZ	1948	K					A	JFMAMJ JASOND				
	DHZ	1949	K					A	JFMAMJ JASOND				
	DHZ	1950	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1951	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1952	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1953	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1954	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1955	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1956	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
ESKDALEMUIR	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
ESK	DHZ	1981	K					A	JFMAMJ JASOND				
(034.68 356.80)	DHZ	1982						A	JFMAMJ J				
ESKIMO POINT	DHZ	1974		ABC	ASOND								
EKP	DHZ	1975		ABC	JFMAMJ JASOND								
(028.90 265.93)	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977										A	SOND*
	DHZ	1978										A	MAMJ JASOND*
	DHZ	1979										A	J MAMJ JAS D*
	DHZ	1980										A	JFMA *
	DHZ	1981										A	J J *
ESPANOLA	DHZ	1957		ABC	J JASOND			ABC	J JASOND				
EPN	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(054.18 253.93)	DHZ	1959		ABC	J			AB	J				
ETTAYAPURAM	DHZ	1976		A	FM								
ETT													
(081.00 078.00)													
EUSEBIO	DHZ	1977										A	JASOND*
EUS	DHZ	1978										A	MAMJ JASOND*
(093.87 321.58)	DHZ	1979										A	JFMAMJ JASOND*
	DHZ	1980										A	JFMAMJ JASOND*
	DHZ	1981										A	JFMAMJ JASOND*
	DHZ	1982										A	JFMA *
EYREWELL	DHZ	1978	K										
EYR	DHZ	1979	K										
(133.42 172.35)	DHZ	1980	K										
	DHZ	1981	K										
FANNING	DHZ	1957		ABC	JASOND			ABC	JASOND	A	JASOND		
FAN	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(086.10 200.62)													
FORT CHURCHILL	XYZ	1957		ABC	J JASOND			ABC	JFMAMJ JASOND				
FCC	XYZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(031.20 265.90)	XYZ	1959		ABC	JFMAMJ JASOND								
	XYZ	1960		ABC	JFMAMJ JASOND								
	XYZ	1961		ABC	JFMAMJ JASOND								
	XYZ	1962		ABC	JFMAMJ JASOND								
	XYZ	1963		ABC	JFMAMJ JASOND								
	XYZ	1964		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	XYZ	1965		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1966		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1967		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1968		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1969		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1970		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
FORT CHURCHILL	XYZ	1971		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
FCC	XYZ	1972		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
(031.20 265.90)	XYZ	1973		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1974		ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1975		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1976	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1977	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1979	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1980		A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1981		A C	JFMAMJ JASOND								
FORT RAE	DHZ	1932						A	ASOND				
FRA	DHZ	1933						A	JFMAMJ JA				
(027.20 243.90)													
FORT SIMPSON	DHZ	1977										A	JASOND*
FSP	DHZ	1978										A	J MAMJ JASOND*
(028.25 238.77)	DHZ	1979										A	JFM JA OND*
	DHZ	1980										A	JFMAMJ JASOND*
	DHZ	1981										A	JFMAMJ JASOND*
	DHZ	1982										A	JFMAM *
FORT SMITH	DHZ	1977										A	D*
FSM	DHZ	1978										A	A J JASOND*
(032.00 246.00)	DHZ	1979										A	JFMAMJ JASOND*
	DHZ	1980										A	J SOND*
	DHZ	1981										A	FMAMJ JASOND*
	DHZ	1982										A	JFMAM *
FORT YUKON	DHZ	1957		ABC	J JASOND			ABC	J JA OND				
FYU	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(023.43 214.70)	DHZ	1959		B	J								
	DHZ	1968		A	FM								
	DHZ	1973		A	JFMAMJ JASOND								
	DHZ	1974		A	JFMAMJ JASOND								
	DHZ	1975		A	JFMAMJ JASOND								
	DHZ	1976		A	JFMAMJ JASOND							A	S ND*
	DHZ	1977										A	MA ASOND*
	DHZ	1978										A	JFMAMJ JASOND*
	DHZ	1979										A	JFMAMJ JASOND*
	DHZ	1980										A	JFMAMJ JASOND*
	DHZ	1981										A	JFM M *
	DHZ	1982											
FREDERICKSBURG	DHZ	1956	K	A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
FRD	DHZ	1957	K	ABC	JFMAMJ JASOND	AB	J JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(051.80 282.63)	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
FREDERICKSBURG	DHZ	1960	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
FRD	DHZ	1961	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	ASOND
(051.80 282.63)	DHZ	1962	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	ND
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFM D
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JF
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	MJ JA
	DHZ	1974	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1979	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1980	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1981	K	A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
FREETOWN	DHZ	1961		ABC	JASOND			ABC	JASOND				
FTN	DHZ	1962		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(081.53 346.78)	DHZ	1963		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1965		ABC	JFMAMJ JASOND			ABC	JFMAMJ				
	DHZ	1966		ABC	JFMAMJ JASOND								
	DHZ	1967		ABC	JF J								
FUQUENE	DHZ	1956						C	JFMAMJ JASOND				
FUQ	DHZ	1957	K	ABC	JASOND			ABC	JASOND				
(084.53 286.27)	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	ASOND	A	ASOND
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ	A	JFMAMJ
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	ASO D	A	ASO D
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JF AMJ	A	JF AMJ
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JASO	A	JASO
	DHZ	1970	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1973	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1974	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
FUQUENE	DHZ	1975	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
FUQ	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(084.53 286.27)	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	A C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1979	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1980	K	A	JFMAM			A	JFMAM				
	DHZ	1981	K	A	JAS			A	JAS				
FURSTENFELDBRUCK	DHZ	1940						BC	JFMAMJ JASOND				
FUR	DHZ	1941						BC	JFMAMJ JASOND				
(041.83 011.28)	DHZ	1942						BC	JFMAMJ JASOND				
	DHZ	1943						BC	JFMAMJ JASOND				
	DHZ	1944	K					ABC	JFMAMJ JASOND				
	DHZ	1945	K					ABC	JFMAMJ JASOND				
	DHZ	1946	K					ABC	JFMAMJ JASOND				
	DHZ	1947	K					ABC	JFMAMJ JASOND				
	DHZ	1948	K					A C	JFMAMJ JASOND				
	DHZ	1949	K					A C	JFMAMJ JASOND				
	DHZ	1950	K					A C	JFMAMJ JASOND				
	DHZ	1951	K					A C	JFMAMJ JASOND				
	DHZ	1952	K					A C	JFMAMJ JASOND				
	DHZ	1953	K					A C	JFMAMJ JASOND				
	DHZ	1954	K					A C	JFMAMJ JASOND				
	DHZ	1955	K					A C	JFMAMJ JASOND				
	DHZ	1956	K					A C	JFMAMJ JASOND				
	DHZ	1957	K					ABC	JFMAMJ JASOND				
	DHZ	1958	K					ABC	JFMAMJ JASOND				
	DHZ	1959	K					ABC	JFMAMJ JASOND				
	DHZ	1960	K					ABC	JFMAMJ JASOND				
	DHZ	1961	K					ABC	JFMAMJ JASOND				
	DHZ	1962	K					ABC	JFMAMJ JASOND				
	DHZ	1963	K					ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ SO	A	JFMAMJ SO
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMA O	A	JFMA O
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	J JAS	A	J JAS
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	A C	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1981		A	JFMAMJ JASOND			A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
FURSTENFELDBRUCK	DHZ	1982		A	JFMAM			A	JFMAM				
FUR													
(041.83 011.28)													
GENOVA	DHZ	1958						B	JASOND				
GEN	DHZ	1959						B	JFMAMJ JASOND				
(045.45 008.95)	DHZ	1960						BC	JFMAMJ JASOND				
	DHZ	1961						BC	JFMAMJ JASOND				
	DHZ	1962						BC	JFMAMJ JASOND				
GILLAM	DHZ	1973		A	MJ JA ON								
GIM	DHZ	1974		ABC	JFMAM								
(033.15 265.58)	DHZ	1975		ABC	ASOND								
	DHZ	1976		ABC	JFMAM								
	DHZ	1977										A	OND*
	DHZ	1978										A	MA J JASOND*
	DHZ	1979										A	JFMAMJ JASOND*
	DHZ	1980										A	JFMAMJ J *
GJOAHAVN	DHZ	1903						A	ND				
GJO	DHZ	1904						A	JFMAMJ JASOND				
(021.37 264.08)	DHZ	1905						A	JFMAM				
GLENLEA	DHZ	1973		A	MJ JASOND								
GLL	DHZ	1974		A	JFMAMJ JASOND								
(040.37 262.90)	DHZ	1975		A	JFMAMJ AS								
	DHZ	1980		A	ON								
	DHZ	1981		A	JFMAM								
GNANGARA	DHZ	1957	K	ABC	JASOND			A C	JASOND				
GNA	DHZ	1958	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
(121.78 115.95)	DHZ	1959	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	SOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	ASOND	A	ASOND
	DHZ	1962	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFM JASO	A	JFM JASO
	DHZ	1970	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFM	A	JFM
	DHZ	1971	K	ABC	JFMAMJ JASOND								
	DHZ	1972	K	ABC	JFMAMJ JASOND								
	DHZ	1973	K	ABC	JFMAMJ JASOND								
	DHZ	1974	K	A	JFMAMJ JASOND								
	DHZ	1975	K	ABC	JFMAMJ JASOND								
	DHZ	1976	K	AB	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
GNANGARA	DHZ	1979	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
GNA	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(121.78 115.95)	DHZ	1981	K	A	JFMAMJ JASOND			A	JFMAMJ	A	JFMAMJ		
GODHAVN	DHZ	1926						A	FMAMJ JASOND				
GDH	DHZ	1927						A	JFMAMJ JASOND				
(020.77 306.48)	DHZ	1928						A	JFMAMJ JASOND				
	DHZ	1929						A	JFMAMJ JASOND				
	DHZ	1930						A	JFMAMJ JASOND				
	DHZ	1931						A	JFMAMJ JASOND				
	DHZ	1932						A	JFMAMJ JASOND				
	DHZ	1933						A	JFMAMJ JASOND				
	DHZ	1934						A	JFMAMJ JASOND				
	DHZ	1935						A	JFMAMJ JASOND				
	DHZ	1936						A	JFMAMJ JASOND				
	DHZ	1937						A	JFMAMJ JASOND				
	DHZ	1938						A	JFMAMJ JASOND				
	DHZ	1939						A	JFMAMJ JASOND				
	DHZ	1940						A	JFMAMJ JASOND				
	DHZ	1941						A	JFMAMJ JASOND				
	DHZ	1942						A	JFMAMJ JASOND				
	DHZ	1943	K					A	JFMAMJ JASOND				
	DHZ	1944	K					A	JFMAMJ JASOND				
	DHZ	1945	K					A	JFMAMJ JASOND				
	DHZ	1946	K					A C	JFMAMJ JASOND				
	DHZ	1947	K					A C	JFMAMJ JASOND				
	DHZ	1948						A C	JFMAMJ JASOND				
	DHZ	1949						A C	JFMAMJ JASOND				
	DHZ	1950						A C	JFMAMJ JASOND				
	DHZ	1951	K					A C	JFMAMJ JASOND				
	DHZ	1952	K					A C	JFMAMJ JASOND				
	DHZ	1953	K					A C	JFMAMJ JASOND				
	DHZ	1954	K					A C	JFMAMJ JASOND				
	DHZ	1955	K					A	JFMAMJ JASOND				
	DHZ	1956	K					A	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	M
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	SO D
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JF AMJ
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JASO
	DHZ	1970	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	M
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
GODHAVN	DHZ	1972	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
GDH	DHZ	1973	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
(020.77 306.48)	DHZ	1974	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1975		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977		ABC	JFMAMJ JASOND								
	DHZ	1978		ABC	JFMAMJ JASOND								
	DHZ	1979		ABC	JFMAMJ JASOND								
	DHZ	1980		ABC	JFMAMJ JASOND								
	DHZ	1981		A C	JFMAMJ ND								
	DHZ	1982		A	JF								
GONZALES VIDELA	DHZ	1961		A	MAMJ JASOND			A	MAMJ JASOND				
GVD													
(154.82 297.15)													
GOTTINGEN	DHZ	1957		AB	JASOND								
GTT	DHZ	1958		AB	JFMAMJ JASOND								
(038.47 009.97)													
GREAT WHALE R.	XYZ	1965		ABC	JFM ASOND	AB	JFM ASOND	A	SOND	A	SOND	A	SOND
GWC	XYZ	1966		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
(034.73 282.22)	XYZ	1967		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1968		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1969		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1970		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1971		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1972		ABC	JFMAMJ JASOND	ABC	JFMAMJ	AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	OND*
	XYZ	1973		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1974		ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1975		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1976	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1977	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1979		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1980		A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1981		A	JFMAMJ JASOND								
GREENWICH	DHZ	1916						A	JFMAMJ JASOND				
GRW	DHZ	1917						A	JFMAMJ JASOND				
(038.52 000.00)	DHZ	1918						A	JFMAMJ JASOND				
	DHZ	1919						A	JFMAMJ JASOND				
	DHZ	1920						A	JFMAMJ JASOND				
	DHZ	1921						A	JFMAMJ JASOND				
	DHZ	1922						A	JFMAMJ JASOND				
	DHZ	1923						A	JFMAMJ JASOND				
	DHZ	1924						A	JFMAMJ JASOND				
	DHZ	1925						A	JFMAMJ JASOND				
	DHZ	1926						A	JFMAM				
GROCKA	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
GCK	DHZ	1959	K										
(045.37 020.77)	DHZ	1960	K										

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
GROCKA	DHZ	1961	K										
GCK	DHZ	1962	K										
(045.37 020.77)	DHZ	1963	K										
	DHZ	1964	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1965	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1966	K										
	DHZ	1967	K										
	DHZ	1968	K										
	DHZ	1969	K										
	DHZ	1970	K										
	DHZ	1971	K										
	DHZ	1972	K										
GUAM	DHZ	1957	K	ABC	JFMAMJ JASOND	ABC	JASOND	ABC	JFMAMJ JASOND	A	JASOND		
GUA	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(076.42 144.87)	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	ASOND
	DHZ	1962	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	OND
	DHZ	1963	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JA
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFM
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1979	K	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1980	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1981	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
GUANGZHOU	DHZ	1958						A	JFMAMJ JASOND				
GZH	DHZ	1959						A	JFMAMJ JASOND				
(066.92 113.33)													
HACHIJO	DHZ	1967						A	J JASOND				
HJJ	DHZ	1968						A	JFMAMJ JASOND				
(056.87 139.80)	DHZ	1969		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1970		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1971		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1972						AB	JFMAMJ JASOND				
	DHZ	1973						AB	JFMAMJ JASOND				

OBSERVATORY	YEAR K COMP	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
HALLEY BAY	DHZ 1957 K	ABC	MJ JASOND			ABC	MJ JASOND	A	MJ JASOND		
HBA	DHZ 1958 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(165.52 333.40)	DHZ 1959 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1960 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1961 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1962 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1963 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1964 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1965 K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ 1966 K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ 1967 K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ 1968	A	JFMAMJ JASOND								
	DHZ 1969	A	JFMAMJ JASOND								
	DHZ 1970	A	JFMAMJ JASOND								
	DHZ 1971	A	JFMAMJ JASOND								
	DHZ 1972	A	JFMAMJ JASOND								
	DHZ 1973	A	JFMAMJ JASOND								
	DHZ 1974 K	ABC	JFMAMJ JASOND								
	DHZ 1975	ABC	JFMAMJ JASOND								
	DHZ 1976	ABC	JFMAMJ JASOND								
	DHZ 1977	ABC	JFMAMJ JASOND								
	DHZ 1978	A C	JFMAMJ JASOND								
	DHZ 1979	A	JFMAMJ JASOND								
	DHZ 1980	A	JFMAMJ JASOND								
HARTLAND	DHZ 1957 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
HAD	DHZ 1958 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
(039.02 355.52)	DHZ 1959 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1960 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1961 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1962 K	A C	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1963 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1964 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	FMAMJ JASOND
	DHZ 1965 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ 1966 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ 1967 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAM A O
	DHZ 1968 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1969 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1970 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1971 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1972 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1973 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1974 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1975 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1976 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1977 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1978 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1979 K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ 1980 K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ 1981 K					A	JFMAMJ JASOND				
	DHZ 1982					A	JFMAMJ J				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
HATIZYO	DHZ	1979	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
HTY	DHZ	1980		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
(056.93 139.83)	DHZ	1981		A	JFMAMJ JASOND								
HAVANA	DHZ	1964	K	ABC	ASOND			ABC	ASOND				
HVN	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(067.03 277.85)	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	SO D	A	SO D
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JF AMJ	A	JF AMJ
	DHZ	1969	K										
	DHZ	1970	K										
	DHZ	1971	K										
	DHZ	1972	K					B	JFMAMJ JASON				
	DHZ	1974		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
HEALY	DHZ	1957		ABC	JASOND	ABC	JASOND	ABC	JASOND				
HEA	DHZ	1958		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
(026.15 211.03)	DHZ	1959		A	J	A	J						
HEARD ISLAND	DHZ	1952	K					A	MAMJ JASOND				
HII	DHZ	1953	K					A	JFMAMJ JASOND				
(143.03 073.37)	DHZ	1954						A	JFMAMJ JASO				
HEISS ISLAND	DHZ	1957		BC	JFMAMJ JASOND			BC	JFMAMJ JASOND				
HIS	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(009.38 058.05)	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	OND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFM J J ND	A	JFM J J ND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	ASO	A	ASO
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND								
	DHZ	1971	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND								
	DHZ	1973	K	ABC	JFMAMJ JASOND								
	DHZ	1974	K	ABC	JFMAMJ JASOND								
	DHZ	1975	K	ABC	JFMAMJ JASOND								
	DHZ	1976	K	ABC	JFMAMJ JASOND								
	DHZ	1977	K	ABC	JFMAMJ JASOND								
	DHZ	1978	K	ABC	JFMAMJ JASOND								
	DHZ	1979	K	ABC	JFMAMJ JASOND								
	DHZ	1980	K	AB	JFMAMJ JASOND								
HEL	DHZ	1957	K	AB	JASOND								
HLP													
(035.40 018.82)													

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
HEL	DHZ	1958	K	AB	JFMAMJ JASOND								
HLP	DHZ	1959	K	AB	JFMAMJ JASOND								
(035.40 018.82)	DHZ	1960	K										
	DHZ	1961	K	ABC	JFMAMJ JASOND								
	DHZ	1962	K										
	DHZ	1963	K										
	DHZ	1964	K	ABC	JFMAMJ JASOND								
	DHZ	1965	K										
	DHZ	1966	K					C	JFMAMJ JASOND				
	DHZ	1967	K					C	JFMAMJ JASOND				
	DHZ	1968	K					C	JFMAMJ JASOND				
	DHZ	1969	K					C	JFMAMJ JASOND				
	DHZ	1970	K					C	JFMAMJ JASOND				
	DHZ	1971	K					C	JFMAMJ JASOND				
	DHZ	1972	K					C	JFMAMJ JASOND				
	DHZ	1973	K					C	JFMAMJ JASOND				
	DHZ	1974	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978	K					A	JFMAMJ JASOND				
	DHZ	1979	K					A	JFMAMJ JASOND				
	DHZ	1980	K										
	DHZ	1981	K										
HELWAN	DHZ	1947						A	JFMAMJ JASOND				
HLW	DHZ	1948						A	JFMAMJ JASOND				
(060.13 031.33)	DHZ	1949						A	JFMAMJ JASOND				
	DHZ	1956	K					A	JFMAMJ JASOND				
	DHZ	1957	K					ABC	JFMAMJ JASOND				
	DHZ	1958	K					ABC	JFMAMJ JASOND				
	DHZ	1959	K					ABC	JFMAMJ JASOND				
	DHZ	1960	K										
HERMANUS	DHZ	1941	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
HER	DHZ	1942	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(124.42 019.23)	DHZ	1943	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1944	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1945	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1946	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1947	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1948	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1949	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1950	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1951	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1952	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1953	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1954	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1955	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
HERMANUS	DHZ	1956	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
HER	DHZ	1957	K	ABC	JASOND	ABC	JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(124.42 019.23)	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	FMA J JAS	A	FMA J JAS
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFM
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1981	K	A	JFMAMJ JASOND								
	DHZ	1982	K	A	JFMAMJ								
HOLLANDIA	DHZ	1957	K	ABC	JASOND	AB	JAS	ABC	JASOND				
HNA	DHZ	1958	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
(092.57 140.52)	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JA			ABC	JFMAMJ JASOND				
HONG KONG	DHZ	1971		A	ND			A	ND				
HKC	DHZ	1972		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
(067.80 114.20)	DHZ	1973		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1975		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1976		A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1977		A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1978		A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
HONOLULU	DHZ	1902		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
HON	DHZ	1903		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(068.68 202.00)	DHZ	1904		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1905		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1906		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1907		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
HONOLULU	DHZ	1908		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
HON	DHZ	1909		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
(068.68 202.00)	DHZ	1910		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1911		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1912		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1913		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1914		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1915		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1916		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1917		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1918		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1919		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1920		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1921		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1922		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1923		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1924		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1925		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1926		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1927		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1928		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1929		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1930		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1931		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1932		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1933		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1934		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1935		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1936		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1937		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1938	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1939	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1940	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1941	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1942	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1943	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1944	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1945	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1946	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1947	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1948	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1949	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1950	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1951	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1952	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1953	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1954	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1955	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1956	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1957	K	ABC	JFMAMJ JASOND	ABC	JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
HONOLULU	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
HON	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(068.68 202.00)	DHZ	1960	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	ASOND
	DHZ	1962	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFM
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND	AB	JFMAM SO	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	MAMJ JASOND*
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1980	K	ABC	JFMAMJ JASOND	B	MAM	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1981	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1982										A	JFMA *
HUANCAYO	DHZ	1922						A	MAMJ JASOND				
HUA	DHZ	1923						A	JFMAMJ JASOND				
(102.05 284.67)	DHZ	1924						A	JFMAMJ JASOND				
	DHZ	1925						A	JFMAMJ JASOND				
	DHZ	1926						A	JFMAMJ JASOND				
	DHZ	1927						A	JFMAMJ JASOND				
	DHZ	1928						A	JFMAMJ JASOND				
	DHZ	1929						A	JFMAMJ JASOND				
	DHZ	1930						A	JFMAMJ JASOND				
	DHZ	1931						A	JFMAMJ JASOND				
	DHZ	1932						A	JFMAMJ JASOND				
	DHZ	1933						A	JFMAMJ JASOND				
	DHZ	1934						A	JFMAMJ JASOND				
	DHZ	1935						A	JFMAMJ JASOND				
	DHZ	1936						A	JFMAMJ JASOND				
	DHZ	1937	K					A	JFMAMJ JASOND				
	DHZ	1938	K					A	JFMAMJ JASOND				
	DHZ	1939	K					A	JFMAMJ JASOND				
	DHZ	1940	K					A	JFMAMJ JASOND				
	DHZ	1941	K					A	JFMAMJ JASOND				
	DHZ	1942	K					A	JFMAMJ JASOND				
	DHZ	1943	K					A	JFMAMJ JASOND				
	DHZ	1944	K					A	JFMAMJ JASOND				
	DHZ	1945	K					A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
HUANCAYO	DHZ	1946	K					A	JFMAMJ JASOND				
HUA	DHZ	1947	K					A	JFMAMJ JASOND				
(102.05 284.67)	DHZ	1948	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1949	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1950	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1951	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1952	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1953	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1954	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1955	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1956	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	D		
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	ASO D	A	ASO D
	DHZ	1968	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JF AMJ	A	JF AMJ
	DHZ	1969	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JASO	A	JASO
	DHZ	1970	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1977	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1979	K	A C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1981	K	A	JFMAMJ J								
HURBANOVO	DHZ	1949						A	JFMAMJ JASOND				
HRB	DHZ	1950						A	JFMAMJ JASOND				
(042.13 018.18)	DHZ	1951	K					A	JFMAMJ JASOND				
	DHZ	1952	K					A	JFMAMJ JASOND				
	DHZ	1953	K					A	JFMAMJ JASOND				
	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K					A	JFMAMJ JASOND				
	DHZ	1956	K					A	JFMAMJ JASOND				
	DHZ	1957	K					AB	JFMAMJ JASOND				
	DHZ	1958	K					AB	JFMAMJ JASOND				
	DHZ	1959	K					AB	JFMAMJ JASOND				
	DHZ	1960	K					A C	JFMAMJ JASOND				
	DHZ	1961	K					ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
HURBANOVO	DHZ	1962	K					ABC	JFMAMJ JASOND				
HRB	DHZ	1963	K					ABC	JFMAMJ JASOND				
(042.13 018.18)	DHZ	1964	K					ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K					ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K					ABC	JFMAMJ JASOND				
	DHZ	1967	K					ABC	JFMAMJ JASOND				
	DHZ	1968	K					ABC	JFMAMJ JASOND				
	DHZ	1969	K					ABC	JFMAMJ JASOND				
	DHZ	1970	K					ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K					A C	JFMAMJ JASOND				
	DHZ	1976	K					A C	JFMAMJ JASOND				
	DHZ	1977	K					A	JFMAMJ JASOND				
	DHZ	1978	K					A	JFMAMJ JASOND				
	DHZ	1979	K	A	JFMAMJ JASOND								
	DHZ	1980	K										
	DHZ	1981	K										
HYDERABAD	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	FM J JASOND	A	FM J JASOND
HYB	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	J M D	A	J M D
(072.58 078.55)	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ	A	JFMAMJ
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	A C	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMAMJ				
	DHZ	1981	K										
IBADAN	DHZ	1957		ABC	JASOND			ABC	JASOND				
IBD	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(082.57 003.90)	DHZ	1959		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1961		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1962		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1963		A	JFMAMJ JASOND			A	MJ JASOND				
	DHZ	1964		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1965		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	O	A	O
	DHZ	1966		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1967		A	JFMAMJ JASOND			A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
IBADAN	DHZ	1968		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
IBD	DHZ	1969		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
(082.57 003.90)	DHZ	1970		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1971		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1972		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1973		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1974		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1975		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1976		A	JFMAMJ JASOND								
	DHZ	1977		A	JFMAMJ JASOND								
INUVIK	DHZ	1977										A	OND*
INK	DHZ	1978										A	JFMAMJ JASOND*
(021.75 226.70)	DHZ	1979										A	JFMAMJ JASOND*
	DHZ	1980										A	JFMAMJ JASOND*
	DHZ	1981										A	JFMAMJ JASOND*
IRKUTSK	DHZ	1941	K										
IRT	DHZ	1942	K										
(037.73 104.27)	DHZ	1943	K										
	DHZ	1944	K										
	DHZ	1945	K										
	DHZ	1946	K										
	DHZ	1952	K										
	DHZ	1953	K										
	DHZ	1954	K										
	DHZ	1955	K										
	DHZ	1956	K										
	DHZ	1957	K	ABC	JASOND			ABC	JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	J SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JAS
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	AMJ ASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JASO
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
IRKUTSK	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
IRT	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJJASOND		
(037.73 104.27)	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJJASOND		
	DHZ	1981	K	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
ISLAND LAKE	DHZ	1976		C	OND							A	JFMAMJ OND*
ISL	DHZ	1977										A	FMAMJ JAS *
(036.12 265.32)	DHZ	1978										A	JFMAMJ JAS D*
	DHZ	1979										A	JFMAMJ J *
	DHZ	1980										A	J JASOND*
	DHZ	1981										A	JFMAM *
	DHZ	1982											
ISTANBUL-KANDILL	DHZ	1947						A	SOND				
ISK	DHZ	1948						A	JFMAMJ JASOND				
(048.93 029.07)	DHZ	1949						A	JFMAMJ JASOND				
	DHZ	1950						A	JFMAMJ JASOND				
	DHZ	1951						A	JFMAMJ JASOND				
	DHZ	1952	K					A C	JFMAMJ JASOND				
	DHZ	1953	K					A C	JFMAMJ JASOND				
	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K					A C	JFMAMJ JASOND				
	DHZ	1956	K					A C	JFMAMJ JASOND				
	DHZ	1957	K					ABC	JFMAMJ JASOND				
	DHZ	1958	K					ABC	JFMAMJ JASOND				
	DHZ	1959	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1961	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1962	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1963	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1965	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1966	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1967	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1968	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1969	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1970	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	AB	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1978	K	AB	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1979						A	JFMAMJ JASOND				
IVALO	DHZ	1957		AB	ASOND								
IVA	DHZ	1958		AB	JFMAMJ JASOND								
(021.40 027.48)	DHZ	1959		AB	J								

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
IVIGTUT	DHZ	1943	K										
IVI	DHZ	1944	K										
(028.80 311.85)	DHZ	1945	K										
JAIPUR	DHZ	1975		B	JASOND			B	JASOND				
JAI	DHZ	1976		B	JFMAMJ JASOND			B	JFM				
(063.08 075.78)	DHZ	1977		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1978		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
JARVIS ISLAND	DHZ	1957		ABC	ASOND			ABC	JASOND	A	ASOND		
JRV	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(090.38 199.97)													
JOHNSON POINT	DHZ	1977										A	J ND*
JOP	DHZ	1978										A	MAMJ JASOND*
(017.53 241.70)	DHZ	1979										A	JFMAMJ JASOND*
	DHZ	1980										A	M *
	DHZ	1981										A	JASOND*
	DHZ	1982										A	JFMA *
JULIANEHAAB	DHZ	1932						A	SOND				
JUL	DHZ	1933						A	JFMAMJ JA				
(029.28 313.97)													
	DHZ	1957		ABC	SOND								
	DHZ	1958		ABC	JF								
	DHZ	1964		ABC	MJ JASOND	ABC	MJ JASOND						
	DHZ	1965		ABC	JFMAM	ABC	JFMAMJ JASOND						
KAKIOKA	DHZ	1913						A C	JFMAMJ JASOND				
KAK	DHZ	1914						A	JFMAMJ JASOND				
(053.77 140.18)	DHZ	1915						A	JFMAMJ JASOND				
	DHZ	1916						A	JFMAMJ JASOND				
	DHZ	1924		C	FMAMJ JASOND			A	FMAMJ JASOND				
	DHZ	1925		C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1926		C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1927		C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1928		C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1929		C	JFMAMJ JASOND								
	DHZ	1930		C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1931		C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1932		C	JFMAMJ JASOND								
	DHZ	1933		C	JFMAMJ JASOND								
	DHZ	1934		C	JFMAMJ JASOND								
	DHZ	1935		C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1936		C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1937		C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1938		C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1939		C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1940		C	JFMAMJ JASOND			A C	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
KAKIOKA	DHZ	1941		C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
KAK	DHZ	1942	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
(053.77 140.18)	DHZ	1943	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1944	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1945	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1946	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1947	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1948	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1949	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1950	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1951	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1952	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1953	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1954	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1955	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1956	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND	ABC	JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1961	K	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	ASOND
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1972	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1980	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1981	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1982		A	JFMAMJ J			A	JFMAMJ J				
KALININGRAD	DHZ	1971		B	JFMAMJ JASOND								
KNG	DHZ	1972		B	JFMAMJ JASOND								
(035.30 020.62)	DHZ	1973		B	JFMAMJ JASOND								
	DHZ	1974		B	JFMAMJ JASOND								
	DHZ	1975		B	JFMAMJ JASOND								
	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977	K	ABC	JFMAMJ JASOND								

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
KALININGRAD	DHZ	1978	K	ABC	JFMAMJ JASOND								
KNG	DHZ	1979	K	ABC	JFMAMJ JASOND			C	JFMA				
(035.30 020.62)	DHZ	1980	K	A	JFMAMJ JASOND								
KANDALAKSHA	DHZ	1933						C	SOND				
KND													
(022.87 032.43)													
KANOYA	DHZ	1957		A	JASOND	A	JASOND	A	JASOND				
KNY	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
(058.58 130.88)	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1964	K	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	AB	JFMAMJ JASOND	A C	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	M	A	M
	DHZ	1967	K	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1968	K	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1979	K	ABC	JFMAMJ JASOND	C	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1980	K	A C	JFMAMJ JASOND	C	JFMAMJ JASOND	A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1981	K	A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1982		A	JFM			A	JFMAMJ				
KANOZAN	DHZ	1966						B	JASOND				
KNZ	DHZ	1967						BC	JFMAMJ JASOND				
(054.75 139.97)	DHZ	1968						ABC	JFMAMJ JASOND				
	DHZ	1969						A C	JFMAMJ JASOND				
	DHZ	1970						ABC	JFMAMJ JASOND				
	DHZ	1971						A C	JFMAMJ JASOND				
	DHZ	1972						A C	JFMAMJ JASOND				
	DHZ	1973						A C	JFMAMJ JASOND				
	DHZ	1974						A C	JFMAMJ JASOND				
	DHZ	1975						A C	JFMAMJ JASOND				
	DHZ	1976						A C	JFMAMJ JASOND				
	DHZ	1977						A C	JFMAMJ JASOND				
	DHZ	1978						A C	JFMAMJ JASOND				
	DHZ	1979						C	JFMAMJ JA D				
	DHZ	1980						C	JFMAMJ JASOND				
	DHZ	1981						C	JFMAM				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
KAP TOBIN	DHZ	1957		ABC	OND								
KTG	DHZ	1958		ABC	JFMAMJ JASOND								
(019.58 238.03)	DHZ	1959		ABC	JFMAMJ JA								
KARAGANDA	DHZ	1965		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
KGD	DHZ	1966	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
(040.18 073.08)	DHZ	1967	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1968	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1969	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1970	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1971	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1972	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1973	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1974	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1981		AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1982		A	F			A	F				
KARAVIA	DHZ	1932						A C	ND				
KVA	DHZ	1933						A C	JFMAMJ JASOND				
(101.63 027.42)	DHZ	1934						A	JFMAMJ JAS				
	DHZ	1938						A	JFMAMJ JASOND				
	DHZ	1939						A	JFMAMJ JASOND				
	DHZ	1940						A	JFMAMJ JASOND				
	DHZ	1941						A	JFMAMJ JASOND				
	DHZ	1942						A	JFMAMJ JASOND				
	DHZ	1943						A	JFMAMJ JASOND				
	DHZ	1944						A	JFMAMJ JASOND				
	DHZ	1945						A	JFMAMJ JASOND				
	DHZ	1953						A	JFMAMJ JASOND				
	DHZ	1954						A	JFMAMJ JASOND				
	DHZ	1955						A	JFMAMJ JASOND				
	DHZ	1956						A	JFMAMJ JASOND				
	DHZ	1957	K	A	JASOND								
	DHZ	1958	K	A	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	DHZ	1959	K	A	JFMAMJ JASOND								
	DHZ	1960		A	OND								
	DHZ	1961		A	JFMAMJ JASOND								
	DHZ	1962		A	JFMA								
	DHZ	1967		A	JFMA								
	DHZ	1968		A	JFMAMJ JASOND								
	DHZ	1969		A	JFMAMJ JASOND								
	DHZ	1970		A	JFMAMJ JASOND								

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
KARAVIA	DHZ	1971		A	JFMAMJ JASOND								
KVA	DHZ	1972		A	JFMAMJ JASOND								
(101.63 027.42)	DHZ	1973		A	JFMAMJ JASOND								
	DHZ	1974		A	JFMAMJ JASOND								
	DHZ	1975		A	JFMAMJ JASOND								
	DHZ	1976		A	JFMAMJ JASOND								
	DHZ	1977		A	JFMAMJ JA								
KAZAN	DHZ	1932						C	SOND				
KZN	DHZ	1933						C	JFMAMJ JASOND				
(034.17 048.85)													
	DHZ	1941	K										
	DHZ	1942	K										
	DHZ	1943	K										
	DHZ	1944	K										
	DHZ	1945	K										
	DHZ	1946	K										
	DHZ	1956	K										
	DHZ	1957	K	ABC	JASOND			ABC	JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND								
	DHZ	1976	K										
	DHZ	1977	K										
	DHZ	1978	K										
	DHZ	1979	K										
	DHZ	1980	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1982		A	M			A	M				
KHABAROVSK	DHZ	1973		B	J			B	J				
KHB	DHZ	1974		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
(041.52 135.07)	DHZ	1975		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976		ABC	JFMA			ABC	JF				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
KHARASAVEY	DHZ	1974		ABC	ND								
KHS	DHZ	1975		ABC	JFMAMJ JASOND								
(018.87 066.83)	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977		B	JFMAMJ JASO								
KIEV	DHZ	1957	K										
KIV	DHZ	1958	K	ABC	JASOND	A	J JASOND	ABC	JASOND				
(039.28 030.30)	DHZ	1959	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JA		
	DHZ	1963	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1981		A	JFMAMJ OND			A	JFMAMJ OND				
KIRUNA	XYZ	1957	K	ABC	JASOND	A	JAS						
KIR	XYZ	1958	K	ABC	JFMAMJ JASOND								
(022.17 020.42)	XYZ	1959	K	ABC	J								
	XYZ	1960	K										
	XYZ	1961	K	ABC	ASOND								
	XYZ	1962	K	ABC	JFMAMJ JASOND			A	OND	A	OND	A	OND
	XYZ	1963	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JA	A	JFMAMJ JA	A	JFMAMJ JA
	XYZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	SOND	A	SOND	A	SOND
	XYZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ	A	JFMAMJ	A	JFMAMJ
	XYZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	SO	A	SO	A	SO
	XYZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND						
	XYZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND						
	XYZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	J M	A	J M	A	J M
	XYZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND						
	XYZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND						
	XYZ	1973		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JAS				
	XYZ	1974		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND						
	XYZ	1975		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS		WDC	RAPID RUN MAGNETOGRAMS		WDC	HOURLY VALUES ANY MEDIUM		WDC	HOURLY VALUES ON TAPE		WDC	2.5-MINUTE 1.0-MINUTE (*)	
KIRUNA	XYZ	1976	K	ABC	JFMAMJ	JASOND	ABC	JFMAMJ	JASOND									
KIR	XYZ	1977	K	ABC	JFMAMJ	JASOND	ABC	JFMAMJ	JASOND									
(022.17 020.42)	XYZ	1978	K	ABC	JFMAMJ	JASOND	ABC	JFMAMJ	JASOND									
	XYZ	1979	K	ABC	JFMAMJ	JASOND	ABC	JFMAMJ	JASOND									
	XYZ	1980	K	A C	JFMAMJ	JASOND	B	AMJ										
	XYZ	1981	K	A C	JFMAMJ													
KODAIKANAL	DHZ	1950								A	JFMAMJ	JASOND						
KOD	DHZ	1951								A	JFMAMJ	JASOND						
(079.77 077.47)	DHZ	1952								A	JFMAMJ	JASOND						
	DHZ	1953								A C	JFMAMJ	JASOND						
	DHZ	1954								A	JFMAMJ	JASOND						
	DHZ	1955								A	JFMAMJ	JASOND						
	DHZ	1956								A	JFMAMJ	JASOND						
	DHZ	1957	K	ABC		JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1958	K	ABC	JFMAMJ	JASOND				AB	JFMAMJ	JASOND						
	DHZ	1959	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1960	K							A C	JFMAMJ	JASOND						
	DHZ	1961	K							A C	JFMAMJ	JASOND						
	DHZ	1962	K							A C	JFMAMJ	JASOND						
	DHZ	1963	K	ABC	JFMAMJ	JASOND				A C	JFMAMJ	JASOND						
	DHZ	1964	K	ABC	JFMAMJ	JASOND				A C	JFMAMJ	JASOND						
	DHZ	1965	K	ABC	JFMAMJ	JASOND				A C	JFMAMJ	JASOND						
	DHZ	1966	K	ABC	JFMAMJ	JASOND				A	JFMAMJ	JASOND						
	DHZ	1967	K	ABC	JFMAMJ	JASOND				A C	JFMAMJ	JASOND						
	DHZ	1968	K	ABC	JFMAMJ	JASOND				A	JFMAMJ	JASOND						
	DHZ	1969	K	ABC	JFMAMJ	JASOND				A	JFMAMJ	JASOND						
	DHZ	1970	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1971	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1972	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1973	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1974	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1975		A	JFMAMJ	JASOND				AB	JFMAMJ	JASOND						
	DHZ	1976		ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1977		ABC	JFMAMJ	JASOND				A C	JFMAMJ	JASOND						
	DHZ	1978		A C	JFMAMJ	JASOND				A	JFMAMJ	JASOND						
	DHZ	1979		A	JFMAMJ	JASOND												
KONTAGORA	DHZ	1964		A C		D												
KNT	DHZ	1965		A C	JFMAMJ	JASOND												
(079.60 005.45)																		
KOROR	DHZ	1957	K	ABC		JASOND	ABC		JASOND	ABC		JASOND	A		JASOND			
KOR	DHZ	1958	K	ABC	JFMAMJ	JASOND	ABC	JFMAMJ	JASOND	ABC	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
(082.67 134.50)																		
	DHZ	1964		ABC	MJ	JASOND	B		ON	A	MJ	JASOND	A	MJ	JASOND	A	MJ	JASOND
	DHZ	1965		ABC	JFMAMJ	JASOND				A	JFMAMJ	JASOND	A	JFMAMJ	JASOND	A	JFMAMJ	JASOND
	DHZ	1966		ABC	JFM					A	JFM		A	JFM		A	JFM	
KOTZEBUE	DHZ	1957		ABC	MJ	ASOND				ABC	M	OND						
KOT	DHZ	1958		ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
(023.12 197.40)																		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
KOTZEBUE	DHZ	1959		B	J			BC	J				
KOT													
(023.12 197.40)													
KSARA	DHZ	1931						C	JFMAMJ JASOND				
KSA	DHZ	1932						C	JFMAMJ JASOND				
(056.18 035.88)	DHZ	1933						C	JFMAMJ JASOND				
	DHZ	1949	K										
	DHZ	1950	K										
	DHZ	1951	K										
	DHZ	1952	K										
	DHZ	1953	K										
	DHZ	1954	K										
	DHZ	1955	K										
	DHZ	1956	K										
	DHZ	1957	K										
	DHZ	1958	K										
	DHZ	1959	K										
	DHZ	1960	K										
	DHZ	1961	K										
	DHZ	1962	K										
	DHZ	1963	K										
	DHZ	1964	K	ABC	JFMAMJ JASOND								
	DHZ	1965	K	ABC	JFMAMJ JASOND								
	DHZ	1966	K										
	DHZ	1967	K										
	DHZ	1968	K										
	DHZ	1969	K										
	DHZ	1970	K										
	DHZ	1971	K										
	DHZ	1972	K										
	DHZ	1973	K										
	DHZ	1974	K										
	DHZ	1975	K										
	DHZ	1976	K										
	DHZ	1977	K										
	DHZ	1978	K										
	DHZ	1979	K										
KUMASI	DHZ	1972						C	JFMAMJ JASOND				
KUM													
(083.30 358.43)													
KUYPER	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
KUY	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(096.03 106.73)	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JA			ABC	JFMAMJ JASOND				
	DHZ	1962	K					ABC	J				
KZIL-AGACH	DHZ	1974		ABC	M JASOND								
KZA	DHZ	1975		ABC	JFMAMJ JASOND								
(044.63 078.73)													

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
L AQUILA	DHZ	1958	K	AB	MJ JASOND			A	OND				
AQU	DHZ	1959	K	AB	JFMAMJ JASOND			AB	JFM				
(047.62 013.32)	DHZ	1960	K	AB	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1961	K	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1962	K	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1963	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1967	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1968	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1969	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1970	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1971	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1972	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1973	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1974	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1975	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1976	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1977	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1978	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1979	K					A	JFMAMJ JASOND				
	DHZ	1980	K					A	JFMAMJ JASOND				
	DHZ	1981	K										
LA MADDALENA	DHZ	1958	K										
LMD	DHZ	1959	K										
(048.77 009.40)	DHZ	1960	K										
	DHZ	1961	K										
	DHZ	1962	K										
	DHZ	1963	K										
LA PAZ	DHZ	1972		A	JFMAMJ JASON								
LPB	DHZ	1973		A	JFMAMJ JASOND								
(106.50 291.90)	DHZ	1974		A	FMAMJ JASOND								
	DHZ	1975		A	JFMAMJ JASON								
LA QUIACA	DHZ	1957						AB	JASOND				
LQA	DHZ	1958						AB	JFMAMJ JASOND				
(112.10 294.40)	DHZ	1959						A	JFMAMJ JASOND				
	DHZ	1960						A	JFMAMJ JASOND				
	DHZ	1961						A	JFMAMJ JASOND				
	DHZ	1962						A	JFMAMJ JASOND				
	DHZ	1963		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1966	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	M	A	M
	DHZ	1967	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1968	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1969		A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1970		A	JFMAMJ JASOND			AB	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
LA QUIACA	DHZ	1971		A	JFMAMJ JASOND								
LQA	DHZ	1972		A	JFMAMJ JASOND								
(112.10 294.40)	DHZ	1973		A	JFMAMJ JASOND								
	DHZ	1974		A	JFMAMJ JASOND								
	DHZ	1975		A	JFMAMJ JASOND								
	DHZ	1977		BC	J			B	J				
LANZHOU	DHZ	1959						A	JFMAMJ JASOND				
LZH	DHZ	1960						A	JFMAMJ JASOND				
(053.90 103.83)	DHZ	1961						A	JFMAMJ JASOND				
LAS ACACIAS	DHZ	1964	K	ABC	JFMAMJ JASOND								
LAS	DHZ	1965	K	ABC	JFMAMJ JASON								
(125.00 302.32)	DHZ	1966	K	ABC	MAMJ JASOND								
	DHZ	1967	K	ABC	JFMAMJ JASOND								
	DHZ	1968	K	ABC	JFMAMJ JASOND								
	DHZ	1969	K	ABC	JFMAMJ JASOND								
	DHZ	1970	K	ABC	JFMAMJ JASOND								
	DHZ	1971	K	ABC	JFMAMJ JASOND								
	DHZ	1972	K	A	JFMAMJ								
	DHZ	1973	K	A	JASOND								
	DHZ	1974		A	JFMAMJ JASOND								
	DHZ	1975	K	A	JFMAMJ JASOND								
	DHZ	1976	K	A	JFMAMJ JASOND								
	DHZ	1977	K	A	JFMAMJ JASOND								
	DHZ	1978	K	A C	JFMAMJ JASOND								
	DHZ	1979	K										
	DHZ	1980	K										
	DHZ	1981	K										
LAUDER	DHZ	1979	K										
LAU													
(135.03 169.68)													
LAZAREV	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
LZV	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(159.97 012.90)	DHZ	1962	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1963	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
LEADVILLE	DHZ	1957		A	JASOND			A	JASOND				
LDV	DHZ	1958		A	JFMAMJ JASOND			A	MJ JASOND				
(050.72 253.72)	DHZ	1959		A	J			A	J				
LEIRVOGUR	DHZ	1957		ABC	ASOND	ABC	ASOND	ABC	ASOND				
LRV	DHZ	1958		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
(025.82 338.30)	DHZ	1959		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1960		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1961		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1962		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	OND	A	OND
	DHZ	1963		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JA	A	JFMAMJ JA
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
LEIRVOGUR	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
LRV	DHZ	1966	K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
(025.82 338.30)	DHZ	1967	K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1971	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1975	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1976	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ	ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND	C	JFMAMJ JAS	ABC	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1981	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1982		A	JFMAMJ			A	JFMAMJ				
LENINGRAD	DHZ	1948						C	JFMAMJ JASOND				
LNN	DHZ	1949						C	JFMAMJ JASOND				
(030.05 030.70)	DHZ	1950						C	JFMAMJ JASOND				
	DHZ	1951						A C	JFMAMJ JASOND				
	DHZ	1952						A C	JFMAMJ JASOND				
	DHZ	1953						A C	JFMAMJ JASOND				
	DHZ	1954						C	JFMAMJ JASOND				
	DHZ	1955	K					C	JFMAMJ JASOND				
	DHZ	1956	K					C	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	M
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
LENINGRAD	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
LNN	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(030.05 030.70)	DHZ	1981	K	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1982		A	JFM			A	JFM				
LENINGRADSKAYA	DHZ	1971		B	AMJ JASOND			B	AMJ JASOND				
LEN	DHZ	1972		B	J AMJ JASOND			B	J AMJ JASOND				
(159.50 159.40)	DHZ	1973		B	JFM			B	JFM				
LERWICK	DHZ	1926						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
LER	DHZ	1927						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(029.87 358.82)	DHZ	1928						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1929						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1930						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1931						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1932						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1933						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1934						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1935						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1936						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1937						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1938						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1939						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1940	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1941	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1942	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1943	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1944	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1945	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1946	K					A	JFMAMJ JASOND				
	DHZ	1947	K					A	JFMAMJ JASOND				
	DHZ	1948	K					A	JFMAMJ JASOND				
	DHZ	1949	K					A	JFMAMJ JASOND				
	DHZ	1950	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1951	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1952	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1953	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1954	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1955	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1956	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	M

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
LERWICK	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
LER	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(029.87 358.82)	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFM
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1981	K					A	JFMAMJ JASOND				
	DHZ	1982						A	JFMAMJ J				
LITTLE AMERICA	DHZ	1957	K	ABC	JFMAMJ JASOND	ABC	JASOND	ABC	JASOND	A	JASOND		
LAA	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(168.18 197.80)													
LOGRONO	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
LGR	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(047.55 357.50)	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1962	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1963	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	M	A	M
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1977	K										
LORING AFB	XYZ	1966		A C	OND								
LOB	XYZ	1967		A C	JFMAMJ JASOND	B	D						
(043.08 291.88)	XYZ	1968		A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	XYZ	1969		A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	XYZ	1970		A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	XYZ	1971		A C	JFMAMJ JASOND	B	JFM JASOND						
	XYZ	1972		A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	XYZ	1973		A	JFMAMJ JASOND								

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
LORING AFB	XYZ	1974		A	JFMAMJ JASOND								
LOB													
(043.08 291.88)													
LOVO	DHZ	1928						A	FMAMJ JASOND				
LOV	DHZ	1929						A	JFMAMJ JASOND				
(030.65 017.83)	DHZ	1930						A	JFMAMJ JASOND				
	DHZ	1931						A	JFMAMJ JASOND				
	DHZ	1932						A	JFMAMJ JASOND				
	DHZ	1933						A	JFMAMJ JASOND				
	DHZ	1934						C	JFMAMJ JASOND				
	DHZ	1935						A C	JFMAMJ JASOND				
	DHZ	1936						A C	JFMAMJ JASOND				
	DHZ	1937						A C	JFMAMJ JASOND				
	DHZ	1938						A	JFMAMJ JASOND				
	DHZ	1939						A	JFMAMJ JASOND				
	DHZ	1940	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1941	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1942	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1943	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1944	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1945	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1946	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1947	K					A	JFMAMJ JASOND				
	DHZ	1948	K					A	JFMAMJ JASOND				
	DHZ	1949	K					A	JFMAMJ JASOND				
	DHZ	1950	K					A	JFMAMJ JASOND				
	DHZ	1951	K					A	JFMAMJ JASOND				
	DHZ	1952	K					A	JFMAMJ JASOND				
	DHZ	1953	K					A C	JFMAMJ JASOND				
	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K					A	JFMAMJ JASOND				
	DHZ	1956	K					A C	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND	ABC	JASOND	ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND	C	JFMAMJ	ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	AMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	M
	DHZ	1967	K	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1969	K	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
LOVO	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
LOV	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(030.65 017.83)	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1981	K	A	JFMAMJ			A	JFMAMJ				
LOVOZERO	DHZ	1957	K			ABC	ASOND						
LOZ	DHZ	1958	K			ABC	JFMAMJ JASOND						
(022.03 035.02)	DHZ	1959	K			ABC	JFMAMJ JASOND						
	DHZ	1960	K			ABC	JFMAMJ JASOND						
	DHZ	1964				ABC	JFMAMJ JASOND						
	DHZ	1965				ABC	JFMAMJ JASOND						
	DHZ	1966				ABC	JFMAMJ JASOND						
	DHZ	1967				ABC	JFMAMJ JASOND						
	DHZ	1968				ABC	JFMAMJ JASOND						
	DHZ	1969				ABC	JFMAMJ JASOND						
	DHZ	1970				ABC	JFMAMJ JASOND						
	DHZ	1971				C	JFMAMJ						
	DHZ	1972				AB	JASOND						
	DHZ	1973				ABC	AMJ JASOND	B	AMJ JASOND				
	DHZ	1974				BC	JFMAMJ	B	JFMAMJ				
LUANDA	DHZ	1957	K					ABC	JASOND				
LUA	DHZ	1958	K					ABC	JFMAMJ JASOND				
(098.92 013.17)	DHZ	1959	K										
	DHZ	1960	K										
	DHZ	1961	K										
	DHZ	1962	K					ABC	JFMAMJ JASOND				
	DHZ	1963	K					ABC	JFMAMJ JASOND				
	DHZ	1964	K					ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K					ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K					ABC	JFMAMJ JASOND				
	DHZ	1967	K	A	SO			ABC	JFMAMJ JASOND	A	SO	A	SO
	DHZ	1968	K					ABC	JFMAMJ JASOND				
	DHZ	1969	K					ABC	JFMAMJ JASOND				
	DHZ	1970	K					ABC	JFMAMJ JASOND				
	DHZ	1971	K					ABC	JFMAMJ JASOND				
	DHZ	1972	K										
	DHZ	1973	K										
	DHZ	1974	K										
	DHZ	1975	K										
	DHZ	1976	K										
	DHZ	1977	K										
	DHZ	1978	K										
	DHZ	1979	K										
	DHZ	1980	K										
	DHZ	1981	K										

OBSERVATORY	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
	COMP											
LUKIAPANG	DHZ 1932						C	JFMAMJ JASOND				
LKP	DHZ 1933						C	JFMAMJ JASOND				
(058.68 121.03)												
LUNPING	DHZ 1965	K	AB	JASOND			A	JASOND				
LNP	DHZ 1966	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
(065.00 121.17)	DHZ 1967	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ 1968	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ 1969	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ 1970	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ 1971	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ 1972	K	AB	JFMAMJ JASOND	B	JFMAMJ JASOND	A C	JFMAMJ JASOND				
	DHZ 1973		AB	JFMAMJ JASOND	B	JFMAMJ JASOND	A C	JFMAMJ JASOND				
	DHZ 1974	K	AB	JFMAMJ JASOND	B	JFMAMJ JASOND	A	JFMAMJ JASOND				
	DHZ 1975		A C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ 1976	K	AB	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ 1977	K	AB	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ 1978	K	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND	A C	JFMAMJ JASOND				
	DHZ 1979	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ 1980	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ 1981	K	A	JFMAMJ JAS			A C	JFMAMJ JASOND				
	DHZ 1982	K	A	JFMAMJ			A	JFMAMJ				
LVOV	DHZ 1955	K										
LVV	DHZ 1956	K										
(040.10 023.75)	DHZ 1957	K	ABC	JASOND			ABC	JASOND	B	JFMAMJ JASOND		
	DHZ 1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ 1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ 1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ 1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ 1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ 1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ 1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ 1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ 1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ 1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ 1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ 1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ 1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1981		A	JFMAMJ OND			A	JFMAMJ OND				
LWIRO	DHZ 1958	K	A	J JASOND			ABC	JASOND				
LWI												
(092.25 028.80)												

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
LWIRO	DHZ	1959	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
LWI	DHZ	1960	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(092.25 028.80)	DHZ	1961		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962						C	JFMAMJ JASOND				
	DHZ	1963		A	MJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964		ABC	JFMAMJ JASO			ABC	JFMAMJ JASOND	A	JFMAMJ JASO		
	DHZ	1965		ABC	MAMJ JASOND			ABC	JFMAMJ JASOND	A	MAMJ JASOND		
	DHZ	1966		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1967		A	JFMAMJ JAS			ABC	JFMAMJ JASOND				
	DHZ	1968		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971		A	JFMAMJ JASOND								
	DHZ	1972		A	JFMAMJ JASOND								
	DHZ	1973		A	JFMAMJ JASOND								
	DHZ	1974		A	JFMAMJ JASOND								
	DHZ	1975		A	JFMA								
LYNN LAKE	DHZ	1977										A	ASOND*
LYN	DHZ	1978											
(033.15 258.93)													
	DHZ	1978										A	MAMJ JASOND*
	DHZ	1979										A	JFMAMJ JASOND*
	DHZ	1980										A	JFMAMJ JASOND*
	DHZ	1981										A	JFMAMJ JASOND*
	DHZ	1982										A	JFMAM *
M BOUR	DHZ	1952	K					A	MAMJ JASOND				
MBO	DHZ	1953	K					A	JFMAMJ JASOND				
(075.60 343.03)	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K					A	JFMAMJ JASOND				
	DHZ	1956	K					A	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND	A	JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	OND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JAS	A	JFMAMJ JAS
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	M	A	M
	DHZ	1971	K	ABC	JFMAMJ JASOND			C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973		ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974		A C	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
M BOUR	DHZ	1975	K	ABC	JFMAMJ JASOND								
MBO	DHZ	1976	K	ABC	JFMAMJ JASOND								
(075.60 343.03)	DHZ	1977		ABC	JFMAMJ JASOND								
	DHZ	1978		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1979		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1980		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1981		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1982		A	JF A			A	JF A				
MACQUARIE ISLAND	DHZ	1950						A	ASOND				
MCQ	DHZ	1951						A	JFMA				
(144.50 158.95)	DHZ	1952	K					A	AMJ JASOND				
	DHZ	1953	K					A	JFMAMJ JASOND				
	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K										
	DHZ	1956	K										
	DHZ	1957	K	ABC	JASOND			C	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND								
	DHZ	1960	K	ABC	JFMAMJ JASOND								
	DHZ	1961	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	OND	A	OND
	DHZ	1963	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND	A	JFMAMJ JA	A	JFMAMJ JA
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFM	A	JFM
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	SO	A	SO
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMA	A	JFMA	A	JFMA
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND						
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND						
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND						
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND						
	DHZ	1973	K	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND						
	DHZ	1974	K	A	JFMAMJ JASOND	A	JFMAMJ JASOND						
	DHZ	1975	K	A	JFMAMJ JASOND	A	JFMAMJ JASOND						
	DHZ	1976	K	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND						
	DHZ	1977	K	A	JFMAMJ JASOND	A	JFMAMJ JASOND						
	DHZ	1978	K	A	JFMAMJ JASOND								
	DHZ	1979	K	A	JFMAMJ JASOND								
	DHZ	1980	K	A	JFMAMJ JASOND								
	DHZ	1981	K										
MAGADAN	DHZ	1966		B	OND			B	OND				
MGD	DHZ	1967	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
(029.88 151.02)	DHZ	1968	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1969	K	B	JFMAMJ OND			B	JFMAMJ JASOND				
	DHZ	1970	K	B	JFMAMJ OND			B	JFMAMJ JASOND				
	DHZ	1971	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1972	K	B	JFMAMJ JAS			B	JFMAMJ JASOND				
	DHZ	1973		B	JFMAMJ JASOND			B	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
MAGADAN	DHZ	1974		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
MGD	DHZ	1975	K	B	JFMAMJ JASOND			BC	JFMAMJ JASOND				
(029.88 151.02)	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1981	K	A	JFMAMJ JASOND								
MAGALLANES	DHZ	1933						A	JFMAMJ JA				
MGS													
(143.20 289.10)													
MAJURO	DHZ	1964		ABC	SOND								
MJR	DHZ	1965		ABC	JFMAMJ JASOND								
(082.92 171.38)	DHZ	1966		ABC	JF								
MALIYE KARMAKULY	DHZ	1882						C	OND				
MKL	DHZ	1883						C	JFMAMJ JA				
(017.70 052.50)													
MANHAY	DHZ	1932						A	SOND				
MAB	DHZ	1933						A	JFMAMJ JA				
(039.70 005.68)													
	DHZ	1940	K										
	DHZ	1941	K										
	DHZ	1942	K										
	DHZ	1943	K										
	DHZ	1947	K										
	DHZ	1948	K										
	DHZ	1949	K										
	DHZ	1950	K										
	DHZ	1951	K										
	DHZ	1952	K										
	DHZ	1953	K										
	DHZ	1954	K										
	DHZ	1955	K										
	DHZ	1956	K										
	DHZ	1957	K	ABC	JASOND								
	DHZ	1958	K	ABC	JFMAMJ JASOND								
	DHZ	1959	K										
	DHZ	1960	K										
	DHZ	1961	K										
	DHZ	1962	K										
	DHZ	1963	K										
	DHZ	1964	K										
	DHZ	1965	K										
	DHZ	1966	K										
	DHZ	1967	K										
	DHZ	1968	K										
	DHZ	1969	K										
	DHZ	1970	K										

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
MANHAY	DHZ	1971	K										
MAB	DHZ	1972	K										
(039.70 005.68)													
MANILA	DHZ	1900						A	JASOND				
MAN	DHZ	1901						A	JFMAMJ JASOND				
(075.42 120.98)	DHZ	1902						A	JFMAMJ JASOND				
	DHZ	1903						A	JFMAMJ JASOND				
	DHZ	1904						A	JFMAMJ JASOND				
MAPUTO	DHZ	1964	K										
LMM	DHZ	1965	K	A	JFMAMJ JASOND								
(115.92 032.58)	DHZ	1966	K	A	JFMAMJ JASOND								
	DHZ	1967	K	A	JFMAMJ JASOND								
	DHZ	1968	K	A	JFMAMJ JASOND								
	DHZ	1969	K	A	JFMAMJ JASOND								
	DHZ	1970	K	A	JFMAMJ JASOND								
	DHZ	1971	K	A	JFMAMJ JASOND								
	DHZ	1972		A	JFMAMJ JASOND								
	DHZ	1973		A	JFMAMJ JASOND								
	DHZ	1974		A	JFMAMJ JASOND								
	DHZ	1975		A	JFMAMJ JASOND								
	DHZ	1976		A	JFMAMJ JASOND								
	DHZ	1981						A	JFMAMJ JASOND				
MARION ISLAND	DHZ	1972						B	J JASOND				
MRN	DHZ	1973						ABC	JFMAMJ JASOND				
(136.85 037.87)	DHZ	1974						ABC	JFMAMJ JASOND				
	DHZ	1975						ABC	JFMAMJ JASOND				
	DHZ	1976						A C	JFMAMJ JASOND				
	DHZ	1977						ABC	JFMAMJ JASOND				
MAURITIUS	DHZ	1916						A	JFMAMJ JASOND				
MRI	DHZ	1917						A	JFMAMJ JASOND				
(110.08 057.55)	DHZ	1918						A	JFMAMJ JASO				
	DHZ	1919						A	JFMAMJ JASOND				
	DHZ	1920						A	JFMAMJ JASOND				
	DHZ	1921						A	JFMAMJ JASOND				
	DHZ	1922						A	JFMAMJ JASOND				
	DHZ	1923						A	JFMAMJ JASOND				
	DHZ	1924						A	JFMAMJ JASOND				
	DHZ	1925						A	JFMAMJ JASOND				
	DHZ	1926						A	JFMAMJ JASOND				
	DHZ	1927						A	JFMAMJ JASOND				
	DHZ	1928						A	JFMAMJ JASOND				
	DHZ	1929						A	JFMAMJ JASOND				
	DHZ	1930						A	JFMAMJ JASOND				
	DHZ	1931						A	JFMAMJ JASOND				
	DHZ	1932						A C	JFMAMJ JASOND				
	DHZ	1933						A C	JFMAMJ JAS				

OBSERVATORY	COMP	YEAR K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
MAURITIUS	DHZ	1934					A	J JASOND				
MRI	DHZ	1935					A	JFMAMJ JASOND				
(110.08 057.55)	DHZ	1936					A	JFMAMJ JASOND				
	DHZ	1937					A	JFMAMJ JASOND				
	DHZ	1938					A	JFMAMJ JASOND				
	DHZ	1943					A	JFMAMJ JASOND				
	DHZ	1944					A	JFMAMJ JASOND				
	DHZ	1945					A	JFMAMJ JASOND				
	DHZ	1946					A	JFMAMJ JASOND				
	DHZ	1947					A	JFMAMJ JASOND				
	DHZ	1948					A	JFMAMJ JASOND				
	DHZ	1949					A	JFMAMJ JASOND				
	DHZ	1950					A	JFMAMJ JASOND				
	DHZ	1956 K										
	DHZ	1957 K										
	DHZ	1958 K										
	DHZ	1959 K										
	DHZ	1960 K										
MAWSON	DHZ	1952					A	AMJ JASOND				
MAW	DHZ	1953					A	JFMAMJ JASOND				
(157.60 062.88)	DHZ	1954					A	JFMAMJ JASOND				
	DHZ	1955					A C	ASOND				
	DHZ	1956 K					A	JFMAMJ JASOND				
	DHZ	1957 K	ABC	JASOND			A C	JFMAMJ JASOND				
	DHZ	1958 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959 K	ABC	JFMAMJ JASOND								
	DHZ	1960 K	ABC	JFMAMJ JASOND								
	DHZ	1961 K	ABC	JFMAMJ JASOND								
	DHZ	1962 K	ABC	JFMAMJ JASOND								
	DHZ	1963 K	ABC	JFMAMJ JASOND								
	DHZ	1964 K	ABC	JFMAMJ JASOND			A	SOND	A	SOND	A	SOND
	DHZ	1965 K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFM SOND
	DHZ	1966 K	ABC	JFMAMJ JASOND			A	J	A	J	A	J
	DHZ	1967 K	ABC	JFMAMJ JASOND								
	DHZ	1968 K	ABC	JFMAMJ JASOND								
	DHZ	1969 K	ABC	JFMAMJ JASOND								
	DHZ	1970 K	ABC	JFMAMJ JASOND								
	DHZ	1971 K	ABC	JFMAMJ JASOND								
	DHZ	1972 K	ABC	JFMAMJ JASOND								
	DHZ	1973 K	ABC	JFMAMJ JASOND								
	DHZ	1974 K	ABC	JFMAMJ JASOND								
	DHZ	1975 K	ABC	JFMAMJ JASOND								
	DHZ	1976 K	ABC	JFMAMJ JASOND								
	DHZ	1977 K	ABC	JFMAMJ JASOND								
	DHZ	1978 K	AB	JFMAMJ JASOND								
	DHZ	1979 K	A	JFMAMJ JASOND								
	DHZ	1980 K	A	JFMAMJ JASON								

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
MAWSON	DHZ	1981	K										
MAW													
(157.60 062.88)													
MCMURDO	DHZ	1981		C	FM								
MCM													
(167.85 166.70)													
MEANOOK	XYZ	1925		A	JFMAMJ JASOND								
MEA	XYZ	1926		A	JFMAMJ JASOND								
(035.38 246.67)	XYZ	1927		A	JFMAMJ JASOND								
	XYZ	1928		A	JFMAMJ JASOND								
	XYZ	1929		A	JFMAMJ JASOND								
	XYZ	1930		A	JFMAMJ JASOND								
	XYZ	1931		A	JFMAMJ JASOND								
	XYZ	1932		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	XYZ	1933						A	JFMAMJ JASOND				
	XYZ	1934						ABC	JFMAMJ JASOND				
	XYZ	1935						ABC	JFMAMJ JASOND				
	XYZ	1936						ABC	JFMAMJ JASOND				
	XYZ	1937						ABC	JFMAMJ JASOND				
	XYZ	1938						ABC	JFMAMJ JASOND				
	XYZ	1939	K					ABC	JFMAMJ JASOND				
	XYZ	1940	K					BC	JFMAMJ JASOND				
	XYZ	1941	K	A	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	XYZ	1942	K	A	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	XYZ	1943	K	A	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	XYZ	1944	K	A	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	XYZ	1945	K	A	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	XYZ	1946	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1947	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1948	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1949	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1950	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1951	K					ABC	JFMAMJ JASOND				
	XYZ	1952	K					ABC	JFMAMJ JASOND				
	XYZ	1953	K					ABC	JFMAMJ JASOND				
	XYZ	1954	K					ABC	JFMAMJ JASOND				
	XYZ	1955	K					ABC	JFMAMJ JASOND				
	XYZ	1956	K					ABC	JFMAMJ JASOND				
	XYZ	1957	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1959	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1960	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1961	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1962	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J SOND
	XYZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ
	XYZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J JAS
	XYZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFM ND	A	ND*

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MEANOOK	XYZ 1971 K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
MEA	XYZ 1972 K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
(035.38 246.67)	XYZ 1973 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1974 K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1975 K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1976 K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1977 K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1978 K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1979 K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1980 K	A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1981 K	A	JFMAMJ JAS ND								
MELVILLE AFB	DHZ 1966	A C	ND	B	ND						
MEV	DHZ 1967	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
(036.72 299.47)	DHZ 1968	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	DHZ 1969	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	DHZ 1970	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	DHZ 1971	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	DHZ 1972	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	DHZ 1973	A	JFMAMJ JASOND								
	DHZ 1974	A	JFMAMJ JASOND								
MEMAMBETSU	DHZ 1952 K										
MMB	DHZ 1953 K										
(046.10 144.20)	DHZ 1954 K										
	DHZ 1955 K										
	DHZ 1956 K										
	DHZ 1957 K	ABC	JASOND	ABC	JASOND	ABC	JFMAMJ JASOND				
	DHZ 1958 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ 1959 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ 1960 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ 1961 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ 1962 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ 1963 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ 1964 K	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J SOND
	DHZ 1965 K	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ 1966 K	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ	A	JFMAMJ
	DHZ 1967 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ 1968 K	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ 1969 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ 1970 K	AB	JFMAMJ JASOND	A C	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ 1971 K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ 1972 K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1973 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1974 K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1975 K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1976 K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JAS *
	DHZ 1977 K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1978 K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1979 K	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
MEMAMBETSU	DHZ	1980	K	A C	JFMAMJ JASOND	A C	JFMAMJ JASOND	A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
MMB	DHZ	1981	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
(046.10 144.20)	DHZ	1982	K	A	JFM			A	JFMAMJ				
MIDWAY	DHZ	1964		ABC	MJ JASOND								
MDY	DHZ	1965		ABC	JFMAMJ JASOND								
(061.78 182.63)	DHZ	1966		A	J								
												A	MAMJ JASOND*
	DHZ	1978										A	JFMAM JASOND*
	DHZ	1979										A	JFMAM J *
	DHZ	1980										A	FMA *
	DHZ	1981											
MINSK	DHZ	1958				C	MJ						
MNK	DHZ	1959		B	OND								
(035.90 026.52)	DHZ	1960		B	JFMAMJ JASOND								
	DHZ	1961		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND	B	JFMAM	ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1981	K	AB	JFMAMJ JASOND	A	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1982		A	J MA			A	J MA				
MIRNY	DHZ	1956	K					A	JASOND				
MIR	DHZ	1957	K	ABC	JFMAMJ JASOND	AB	JASOND	ABC	JFMAMJ JASOND				
(156.55 093.02)	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	M	A	M
	DHZ	1966	K	ABC	JFMAMJ JASOND								

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
MIRNY	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	SO	A	SO
MIR	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(156.55 093.02)	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND	B	MAMJ JASOND	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND			B	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	DHZ	1980	K	A	JFMAMJ JASOND								
MISALLAT	DHZ	1960	K	A	AMJ JASOND			ABC	AMJ JASOND				
MLT	DHZ	1961	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(060.48 030.90)	DHZ	1962	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1968	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1969	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1970	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1971	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	AB	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1975	K	AB	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1976	K	AB	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1977		AB	JFMAMJ JASOND								
	DHZ	1978		AB	JFMAMJ JASOND								
	DHZ	1979		AB	JFMA								
MIZUSAWA	DHZ	1969						A	AMJ JASOND				
MIZ	DHZ	1970						A	JFMAMJ JASOND				
(050.98 141.08)	DHZ	1971						A	JFMAMJ JASOND				
	DHZ	1972						A	JFMAMJ JASOND				
MOCA	DHZ	1958	K	ABC	OND			ABC	JFMAMJ JASOND				
MFP	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(086.65 008.67)	DHZ	1960	K					ABC	JFMAMJ JASOND				
	DHZ	1961	K					ABC	JFMAMJ JASOND				
	DHZ	1962	K					ABC	JFMAMJ JASOND				
	DHZ	1963	K					A C	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND	A	JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JAS	A	JFMAMJ JAS

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
MOCA	DHZ	1967	K	ABC	JFMAMJ JASOND	A	JAS	ABC	JFMAMJ JASOND	A	SO D	A	SO D
MFP	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JF AMJ	A	JF AMJ
(086.65 008.67)	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JASO	A	JASO
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASON			ABC	JFMAMJ JASOND				
MODIIM	DHZ	1975		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
MOD													
(058.10 035.00)													
MOGADISCIO	DHZ	1932						A	ASOND				
MOG	DHZ	1933						A	JFMAMJ J				
(087.97 045.35)													
MOLODEZHNAYA	DHZ	1976	K										
MOL	DHZ	1977	K										
(157.57 045.87)	DHZ	1978	K										
	DHZ	1979	K										
MONTE CAPELLINO	DHZ	1958	K	A	JFMAMJ JASOND			A	JASOND				
MCP	DHZ	1959	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
(045.45 008.95)	DHZ	1960	K	AB	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1961	K	AB	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1962	K	AB	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1963		AB	JFMAMJ JASOND								
	DHZ	1964		AB	JFMAMJ JASOND								
MOSCOW	DHZ	1945	K										
MOS	DHZ	1946	K										
(034.52 037.32)													
	DHZ	1956	K					ABC	JASOND	B	JFMAMJ JASOND		
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	YEAR K COMP	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
MOSCOW	DHZ 1979 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
MOS	DHZ 1980 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(034.52 037.32)	DHZ 1981 K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1982	A	JF			A	JF				
MOULD BAY	XYZ 1961	AB	D								
MBC	XYZ 1962	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	ASOND		
(013.80 240.60)	XYZ 1963	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	XYZ 1964	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	XYZ 1965	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ 1966	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ 1967	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JF SO	A	JF SO
	XYZ 1968	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASO	A	JFMAMJ JASO
	XYZ 1969	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J JASO
	XYZ 1970	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ 1971	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ 1972	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	XYZ 1973	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ 1974	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	XYZ 1975	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	XYZ 1976	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	XYZ 1977	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	XYZ 1978	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	MAMJ JA	A	MAMJ JA *
	XYZ 1979	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	XYZ 1980	A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1981	A	JFMAMJ JASOND								
	XYZ 1982	A	JF								
MT WILSON	DHZ 1926	A	JFMAMJ JASOND								
MWC	DHZ 1927	A	JFMAMJ JASOND								
(055.78 241.93)	DHZ 1928	A	JFMAMJ JASOND								
	DHZ 1929	A	JFMAMJ JASOND								
	DHZ 1930	A	JFMAMJ JASOND								
	DHZ 1931	A	JFMAMJ JASOND								
	DHZ 1932	A	JFMAMJ JASOND								
	DHZ 1933	A	JFMAMJ JASOND								
	DHZ 1934	A	JFMAMJ JASOND								
	DHZ 1935	A	JFMAMJ JASOND								
	DHZ 1936	A	JFMAMJ JASOND								
	DHZ 1937	A	JFMAMJ JASOND								
	DHZ 1938	A	JFMAMJ JASOND								
	DHZ 1939	A	JFMAMJ JASOND								
	DHZ 1940	A	JFMAMJ JASOND								
	DHZ 1941	A	JFMAMJ JASOND								
	DHZ 1942	A	JFMAMJ JASOND								
	DHZ 1943	A	JFMAMJ JASOND								
	DHZ 1944	A	JFMAMJ JASOND								
	DHZ 1945	A	JFMAMJ JASOND								
	DHZ 1946	A	JFMAMJ JASOND								
	DHZ 1947	A	JFMAMJ JASOND								

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MT WILSON	DHZ	1948		A	JFMAMJ JASOND								
MWC	DHZ	1949		A	JFMAMJ JASOND								
(055.78 241.93)	DHZ	1950		A	JFMAMJ JASOND								
	DHZ	1951		A	JFMAMJ JASOND								
	DHZ	1952		A	JFMAMJ JASOND								
	DHZ	1953		A	JFMAMJ JASOND								
	DHZ	1954		A	JFMAMJ JASOND								
	DHZ	1955		A	JFMAMJ JASOND								
	DHZ	1956		A	JFMAMJ JASOND								
	DHZ	1957		A	JFMAMJ JASOND								
	DHZ	1958		A	JFMAMJ JASOND								
MUNTINLUPA	DHZ	1953						A	JFMAM				
MUT	DHZ	1954						A	JFMAMJ JASOND				
(075.63 121.02)	DHZ	1955						A	JFMAMJ JASOND				
	DHZ	1956						A	JFMAMJ JASOND				
	DHZ	1957		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959		B	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960		BC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961						A	JFMAMJ JASOND				
	DHZ	1962		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1963		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1967	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1969	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K					A	JFMAMJ JASOND				
	DHZ	1973						ABC	JFMAMJ JASOND				
	DHZ	1974	K					ABC	JFMAMJ JASOND				
	DHZ	1975	K					ABC	JFMAMJ JASOND				
	DHZ	1976	K					AB	JFMAMJ JASOND				
	DHZ	1977	K					A C	JFMAMJ JASOND				
	DHZ	1978	K					A	JFMAMJ JASOND				
	DHZ	1979	K					A	JFMAMJ JASOND				
	DHZ	1980	K					A	JFMAMJ JASOND				
	DHZ	1981	K					A	JFMAMJ				
MURCHISON BAY	XYZ	1957		ABC	ASOND	ABC	SOND	ABC	ASOND				
MUB	XYZ	1958		ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
(009.50 018.25)	XYZ	1959		ABC	JFMAMJ J			ABC	JFMAMJ J				
MURMANSK	DHZ	1957	K	ABC	JASOND			A	JASOND				
MMK	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(021.75 033.08)	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

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MURMANSK	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
MMK	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(021.75 033.08)	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMA	A	JFMA
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
NAGYCENK	DHZ	1958	K										
NCK	DHZ	1959	K										
(042.37 016.72)	DHZ	1960											
	DHZ	1961	K										
	DHZ	1962	K										
	DHZ	1963	K										
	DHZ	1964	K	A C	JFMAMJ JASOND								
	DHZ	1965	K	A C	JFMAMJ JASOND								
	DHZ	1966	K										
	DHZ	1967	K										
	DHZ	1968	K										
	DHZ	1969	K										
	DHZ	1970	K										
	DHZ	1971	K										
	DHZ	1972	K										
	DHZ	1973	K										
	DHZ	1974	K										
	DHZ	1975	K										
	DHZ	1976	K										
	DHZ	1977	K										
	DHZ	1978	K										
NAIROBI	DHZ	1964		ABC	FMAMJ JASOND			ABC	FMAMJ JASOND	A	SOND	A	SOND
NAI	DHZ	1965		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
(091.32 036.82)	DHZ	1966		ABC	JFM			ABC	JFM	A	JFM	A	JFM
	DHZ	1967		AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	AM	A	AM
	DHZ	1968		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
NAIROBI	DHZ	1971		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
NAI	DHZ	1972		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(091.32 036.82)	DHZ	1973		A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974		A	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1975		A	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1979		A	D					A	JFMAMJ JASOND		
	DHZ	1980		A	J AM								
NANTES	DHZ	1932						C	JFMAMJ JASOND				
NTS	DHZ	1933						C	JFMAMJ JASOND				
(042.75 358.45)													
	DHZ	1951	K										
	DHZ	1952	K										
	DHZ	1953	K										
	DHZ	1954	K										
	DHZ	1955	K										
	DHZ	1956	K										
	DHZ	1957	K										
	DHZ	1958	K										
	DHZ	1959	K										
NARSSARSSUAQ	DHZ	1968		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
NAQ	DHZ	1969		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
(028.90 314.80)	DHZ	1970		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1971		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1972		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1975		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977		ABC	JFMAMJ JASOND								
	DHZ	1978		ABC	JFMAMJ JASOND								
	DHZ	1979		ABC	JFMAMJ JASOND								
	DHZ	1980		ABC	JFMAMJ JASOND								
	DHZ	1981		A C	JFMAMJ JASOND								
	DHZ	1982		A	JF								
NEW AALESUND	DHZ	1974		ABC	JFMAMJ JASOND								
NAL	DHZ	1975		ABC	JFMAMJ JASOND								
(011.08 011.93)	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977		ABC	JFMAMJ JASOND								
	DHZ	1978		ABC	JFMAMJ JASOND								
	DHZ	1979		ABC	JFMAMJ JASOND								
	DHZ	1980		A C	JFMAMJ JASOND								
	DHZ	1981		A C	JFMA								
NEWPORT	DHZ	1966	K	ABC	AMJ JASOND			ABC	AMJ JASOND	A	AMJ JASOND	A	AMJ JASOND
NEW													
(041.73 242.88)													

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
NEWPORT	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
NEW	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
(041.73 242.88)	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1981	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
NIEMEGK	XYZ	1917						A C	JFMAMJ JASOND				
NGK	XYZ	1918						A C	JFMAMJ JASOND				
(037.93 012.67)	XYZ	1919						A C	JFMAMJ JASOND				
	XYZ	1920						A C	JFMAMJ JASOND				
	XYZ	1921						A C	JFMAMJ JASOND				
	XYZ	1922						A C	JFMAMJ JASOND				
	XYZ	1923						A C	JFMAMJ JASOND				
	XYZ	1924						A C	JFMAMJ JASOND				
	XYZ	1925						A C	JFMAMJ JASOND				
	XYZ	1926						A C	JFMAMJ JASOND				
	XYZ	1927						A C	JFMAMJ JASOND				
	XYZ	1928						A C	JFMAMJ JASOND				
	XYZ	1929						A C	JFMAMJ JASOND				
	XYZ	1930						A C	JFMAMJ JASOND				
	XYZ	1931						A C	JFMAMJ JASOND				
	XYZ	1934						A C	JFMAMJ JASOND				
	XYZ	1935						A	JFMAMJ JASOND				
	XYZ	1936						A	JFMAMJ JASOND				
	XYZ	1937	K					A	JFMAMJ JASOND				
	XYZ	1938	K					A	JFMAMJ JASOND				
	XYZ	1939	K					A	JFMAMJ JASOND				
	XYZ	1940	K					A	JFMAMJ JASOND				
	XYZ	1941	K					A	JFMAMJ JASOND				
	XYZ	1942	K					A	JFMAMJ JASOND				
	XYZ	1943	K					A	JFMAMJ JASOND				
	XYZ	1944	K					A	JFMAMJ JASOND				
	XYZ	1945	K										
	XYZ	1946	K					A	MAMJ JASOND				
	XYZ	1947	K					A	JFMAMJ JASOND				
	XYZ	1948	K					A	JFMAMJ JASOND				
	XYZ	1949	K					A	JFMAMJ JASOND				
	XYZ	1950	K					A	JFMAMJ JASOND				
	XYZ	1951	K					A	JFMAMJ JASOND				
	XYZ	1952	K					A C	JFMAMJ JASOND				
	XYZ	1953	K					A	JFMAMJ JASOND				
	XYZ	1954	K					A C	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS		WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY	MEDIUM	WDC	HOURLY VALUES ON	TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)	
NIEMEGK	XYZ	1955	K						A C	JFMAMJ	JASOND						
NGK	XYZ	1956	K						A C	JFMAMJ	JASOND						
(037.93 012.67)	XYZ	1957	K	ABC		JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1958	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1959	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1960	K	B	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1961	K	B	JFMAMJ	JASOND			AB	JFMAMJ	JASOND						
	XYZ	1962	K	B	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1963	K	B	JFMAMJ	JASOND			AB	JFMAMJ	JASOND						
	XYZ	1964	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	XYZ	1965	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	XYZ	1966	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1967	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1968	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1969	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1970	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1971	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1972	K	ABC	JFMAMJ	JASOND			AB	JFMAMJ	JASOND						
	XYZ	1973	K	ABC	JFMAMJ	JASOND			AB	JFMAMJ	JASOND						
	XYZ	1974	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1975	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1976	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1977	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1978	K	ABC	JFMAMJ	JASOND			AB	JFMAMJ	JASOND						
	XYZ	1979	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1980	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	XYZ	1981	K	A	JFMAMJ	JASOND			A C	JFMAMJ	JASOND						
	XYZ	1982		A	JFM				A	JFMAM							
NITSANIM	DHZ	1963							ABC	JFMAMJ	JASOND						
NSM																	
(058.27 034.60)	DHZ	1967	K						A	JFMAMJ	JASOND						
	DHZ	1968							A	JFMAMJ	JASOND						
NORD	DHZ	1969							A	JFMAMJ	JASOND						
NRD	DHZ	1970							A	JFMAMJ	JASOND						
(008.40 343.24)	DHZ	1971							A	JFMAMJ	JASOND						
	DHZ	1972							A	JFMAMJ	JASOND						
NORILSK	DHZ	1973		B		ND											
NOK	DHZ	1974		ABC	JFMAMJ	JASOND											
(020.60 088.10)	DHZ	1975		ABC	JFMAMJ	J											
NORMAN WELLS	DHZ	1977													A		JASOND*
NOW	DHZ	1978													A	JFMAMJ	JASOND*
(025.10 234.50)	DHZ	1979													A	JFMAMJ	JASOND*
	DHZ	1980													A	JFMAMJ	JASON *
	DHZ	1981													A	JFMAMJ	JASOND*
	DHZ	1982													A	JFMAM	*
NORTH POLE 6	DHZ	1957		ABC		JASOND			ABC		JASOND						
NPF	DHZ	1958	K	ABC	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
(006.00 094.00)	DHZ	1959	K	ABC	JFMAMJ	JAS			ABC	JFMAMJ	JAS						

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NORTH POLE 7	DHZ	1957		ABC	JASOND			ABC	JASOND				
NPG	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(005.00 268.12)	DHZ	1959		ABC	JFM			ABC	JFM				
NORTH POLE 8	DHZ	1959	K	ABC	MJ JASOND			ABC	MJ JASOND				
NPH	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(013.00 189.00)	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962		ABC	JF			ABC	JF				
NORTH POLE 10	DHZ	1961		A C	ND			A C	ND				
NPJ	DHZ	1962		A C	JFMAM			A C	JFMAM				
(013.00 166.38)													
NORTH POLE 12	DHZ	1963	K	A C	MJ JASOND			A C	MJ JASOND				
NPL	DHZ	1964	K	A C	JFMA			A C	JFMA				
(011.00 187.00)													
NORTH POLE 13	DHZ	1964		C	MJ JASOND			C	MJ JASOND				
NPM	DHZ	1965		C	JFMAMJ JASOND			C	JFMAMJ JASOND				
(009.00 165.00)													
NORTHWAY	DHZ	1957		ABC	AMJ JASOND			ABC	AMJ JASOND				
NRW	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(027.03 218.05)	DHZ	1959		B	J								
NORWAY HOUSE	DHZ	1973		A	MJ JASOND								
NHO	DHZ	1974		BC	JFMAMJ JASOND								
(036.02 262.17)													
	DHZ	1976		BC	F N								
NORWAY STATION	DHZ	1960						BC	JFMAMJ JASOND				
NWS	DHZ	1961						ABC	JFMAMJ JASOND				
(160.50 357.47)	DHZ	1962						A	JF				
NOVOKAZALINSK	DHZ	1965											
NKK	DHZ	1966	K										
(044.23 062.12)	DHZ	1967	K										
	DHZ	1968	K										
	DHZ	1969	K										
	DHZ	1970	K										
	DHZ	1971	K										
	DHZ	1972	K										
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	ASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1981	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1982		A	J MA			A	J MA				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
NOVOLAZAREVSKAYA	DHZ	1960	K										
NVL	DHZ	1961	K	A	FMAMJ JASOND			A	FMAMJ JASOND				
(160.77 011.82)	DHZ	1962	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1963	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	SO	A	SO
	DHZ	1968	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			B	JF				
	DHZ	1978	K	ABC	JFMAMJ JASOND								
	DHZ	1979	K	ABC	JFMAMJ JASOND								
	DHZ	1980	K	AB	JFMAMJ JASOND								
NOVOSIBIRSK	DHZ	1967		B	JFMAMJ JAS			B	JFMAMJ JAS				
NVS	DHZ	1968		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
(034.97 082.90)	DHZ	1969		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1970		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1971		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1972	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1973	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1974	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1981		A	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1982		A	A			A	A				
NUMTO	DHZ	1974		BC	FMAMJ JASOND								
NMT	DHZ	1975		B	JFMAMJ JASOND								
(026.50 071.40)	DHZ	1976		BC	JFMAMJ JASOND								
	DHZ	1977		B	JFMAMJ JASOND								
	DHZ	1978		BC	JFMAMJ JASOND								
NURMIJARVI	DHZ	1953	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
NUR	DHZ	1954	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
(029.48 024.65)	DHZ	1955	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1956	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1957	K	ABC	JASOND	ABC	JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		

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NURMIJARVI	DHZ	1960	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
NUR	DHZ	1961	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(029.48 024.65)	DHZ	1962	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ SO
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	M
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1977	K	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1981	K	A C	JFMAMJ JASOND	C	JF	A C	JFMAMJ JASOND				
	DHZ	1982		A	JFMAMJ J			A	JFMAMJ J				
NYDA	DHZ	1974		BC	JFMAMJ JASOND								
NDA	DHZ	1975		B	JFMAMJ JASOND								
(023.40 073.00)	DHZ	1976		BC	JFMAMJ JASOND								
	DHZ	1977		B	JFMAMJ JASOND								
	DHZ	1978		BC	JFMAMJ JASOND								
	DHZ	1979		BC	JFMAMJ JASOND								
O GYALLA	DHZ	1908						A	JFMAMJ JASOND				
OGY	DHZ	1909						A	JFMAMJ JASOND				
(042.13 018.18)	DHZ	1910						A	JFMAMJ JASOND				
	DHZ	1911						A	JFMAMJ JASOND				
	DHZ	1912						A	JFMAMJ JASOND				
	DHZ	1916						A	JFMAMJ JASOND				
	DHZ	1917						A	JFMAMJ JASOND				
	DHZ	1932						C	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
O GYALLA	DHZ	1933						C	JFMAMJ JASOND				
OGY													
(042.13 018.18)													
OASIS	DHZ	1957	K	ABC	J JASOND			ABC	J JASOND				
OAS	DHZ	1958	K	ABC	JFMAMJ JASON			ABC	JFMAMJ JASON				
(156.30 100.72)													
ODESSA	DHZ	1955	K										
ODE	DHZ	1956	K										
(043.22 030.88)	DHZ	1957	K	ABC	JASOND			AB	JASOND	B	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	AMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASO D
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	SO D
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JF AMJ
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JASO
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1981		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1982		A	J			A	J				
ONAGAWA	DHZ	1957	K			ABC	JASOND						
ONW	DHZ	1958	K			ABC	JFMAMJ JASOND						
(051.57 141.47)	DHZ	1959	K										
ORCADAS DEL SUR	DHZ	1969	K										
ORC	DHZ	1970	K										
(150.73 315.22)	DHZ	1971		ABC	JFMAMJ JASOND								
	DHZ	1972		AB	JFMAMJ JASOND								
	DHZ	1973		ABC	JFMAMJ JASOND								
	DHZ	1974		A	JFMAMJ JASOND								
OTTAWA	XYZ	1968		ABC	J JASOND			ABC	JFMAMJ JASOND	A	JASOND		
OTT	XYZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(044.60 284.45)	XYZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFM SOND	A	SOND*
	XYZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1972	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
OTTAWA	XYZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
OTT	XYZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
(044.60 284.45)	XYZ	1975	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1976	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1977	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1979	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1980	K	A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1981	K	A C	JFMAMJ JASOND								
P. TUNGUSKA	DHZ	1969		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
POD	DHZ	1970		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
(028.40 090.00)	DHZ	1971		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1972		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1973		B	JFMA JASOND			B	JFMAMJ JASOND				
	DHZ	1974		B	JFMAMJ JAS			B	JFMAMJ JAS				
	DHZ	1975	K	ABC	AMJ JASOND			ABC	AMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1981	K	AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1982	K	A	JF			A	JF				
PALMYRA ISLAND	DHZ	1957		ABC	OND			ABC	OND				
PAI	DHZ	1958		BC	JFMAMJ JA			ABC	JFMAMJ JA			A	JFMAMJ JA
(084.12 197.92)													
PAMATAI	DHZ	1966		ABC	JFMAMJ JASOND			A	M	A	M	A	M
PPT													
(107.57 210.43)	DHZ	1968	K	ABC	JFMAMJ JASOND			A	JFMA	A	JFMA	A	JFMA
	DHZ	1969	K	ABC	JFMAMJ JASOND			A	J JAS	A	J JAS	A	J JAS
	DHZ	1970	K	ABC	JFMAMJ JASOND			A	JFM	A	JFM	A	JFM
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1975	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1976	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1977	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND			A	MAMJ JASOND*
	DHZ	1978	K	ABC	JFMAMJ JASOND								
	DHZ	1979	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1981	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1982		A	JF A			A	JF A			A	JFMA *
PANAGYURISHTE	DHZ	1956		C	JFMAMJ JASOND			BC	JFMAMJ JASOND				
PAG	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
(047.48 024.18)	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
PANAGYURISHTE	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
PAG	DHZ	1961	K					AB	JFMAMJ JASOND				
(047.48 024.18)	DHZ	1962	K					ABC	JFMAMJ JASOND				
	DHZ	1963	K					ABC	JFMAMJ JASOND				
	DHZ	1964	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K					ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1967	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1968	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K					ABC	JFMAMJ JASOND				
	DHZ	1972	K					ABC	JFMAMJ JASOND				
	DHZ	1973		B	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	DHZ	1974	K	B	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	DHZ	1975	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978		B	JFMAMJ JASOND			BC	JFMAMJ JASOND				
PARAMARIBO	DHZ	1957	K	ABC	JASOND	ABC	JASOND						
PAB	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
(084.18 304.78)	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963		ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1964		ABC	JFMAMJ JASOND	BC	JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J SOND
	DHZ	1965		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ J ND	A	JFMAMJ J ND
	DHZ	1967		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	ASO D	A	ASO D
	DHZ	1968		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JF AMJ	A	JF AMJ
	DHZ	1969		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JASO	A	JASO
	DHZ	1970		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973		AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975		ABC	JFMAMJ			ABC	JFMAMJ				
PELLY BAY	DHZ	1977										A	JASOND*
PEB	DHZ	1978										A	JF AMJ JASOND*
(021.47 270.48)	DHZ	1979										A	JFM *
PENANG	DHZ	1976						BC	MJ JASOND				
PNN	DHZ	1977						C	JFMAMJ JASOND				
(084.50 100.40)													
	DHZ	1979						C	SOND				
	DHZ	1980						C	JF				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
PENDELI	DHZ	1959	K					A	JFMAMJ JASOND				
PEG	DHZ	1960	K					A	JFMAMJ JASOND				
(051.95 023.87)	DHZ	1961	K	A	SOND			A	JFMAMJ JASOND				
	DHZ	1962	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1963	K	A	JFMAMJ JASOND								
	DHZ	1964	K	A	JFMAMJ JASOND								
	DHZ	1965	K	A	JFMAMJ JASOND								
	DHZ	1966	K	A	JFMAMJ JASOND								
	DHZ	1967	K	A	JFMAMJ JASOND								
	DHZ	1968	K	A	JFMAMJ JASOND								
	DHZ	1969	K	A	JFMAMJ JASOND								
	DHZ	1970	K	A	JFMAMJ JASOND								
	DHZ	1971	K	A C	JFMAMJ JASOND								
	DHZ	1972	K	A C	JFMAMJ JASOND								
	DHZ	1973	K	A	JFMAMJ JASOND								
	DHZ	1974	K	A	JFMAMJ JASOND								
	DHZ	1975	K	A	JFMAMJ JASOND								
	DHZ	1976	K	A	JFMAMJ JASOND								
	DHZ	1977	K	A	JFMAMJ JASOND								
	DHZ	1978	K	A	JFMAMJ JASOND								
	DHZ	1979	K	A	JFMAMJ JASOND								
	DHZ	1980	K	A	JFMAMJ JASOND								
	DHZ	1981	K	A	JFMAMJ JASOND								
PETROPAVLOVSK	DHZ	1957	K			ABC	ASOND						
PET	DHZ	1958	K			ABC	JFMAMJ JASOND						
(036.90 158.63)	DHZ	1959	K			ABC	JFMAMJ JASOND						
	DHZ	1960	K			ABC	JFMAMJ JASOND						
	DHZ	1961	K			ABC	JFMAMJ JASOND						
	DHZ	1962	K			A C	JFMAMJ JASOND						
	DHZ	1963	K			A C	JFMAMJ JASOND						
	DHZ	1964	K			AB	JFMAMJ JASOND						
	DHZ	1965	K			ABC	JFMA						
	DHZ	1966	K										
	DHZ	1967	K										
	DHZ	1968	K	B	JASOND			B	JASOND				
	DHZ	1969	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1970	K	B	JFMAMJ JASOND			B	JFMAMJ				
	DHZ	1971	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1972	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1973	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1974	K	B	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JAS			AB	JFMAMJ JA				
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1981		A	JFMAMJ			A	JFMAMJ				
PETSAMO	DHZ	1932						A	ASOND				
PTS													
(020.47 031.25)													

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
PETSAMO	DHZ	1933						A	JFMAMJ JA				
PTS													
(020.47 031.25)													
PILAR	DHZ	1940	K										
PIL	DHZ	1941	K					A	JFMAMJ JASOND				
(121.67 296.12)	DHZ	1942	K					A	JFMAMJ JASOND				
	DHZ	1943	K					A	JFMAMJ JASOND				
	DHZ	1944	K					A	JFMAMJ JASOND				
	DHZ	1945	K					A	JFMAMJ JASOND				
	DHZ	1946	K					A	JFMAMJ JASOND				
	DHZ	1947	K					A	JFMAMJ JASOND				
	DHZ	1948	K					A	JFMAMJ JASOND				
	DHZ	1949	K					A	JFMAMJ JASOND				
	DHZ	1950	K					A	JFMAMJ JASOND				
	DHZ	1951	K										
	DHZ	1956	K										
	DHZ	1957	K	A	JASOND			AB	JASOND	A	JASOND		
	DHZ	1958	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K	A	JFMAMJ JASOND								
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	OND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	FMAMJ JASOND	A	MJ JASOND	A	J JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ	A	JFMAMJ
	DHZ	1969	K	A	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1970	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1971	K	A	JFMAMJ JASOND								
	DHZ	1972	K	A	JFMAMJ JASOND								
	DHZ	1973	K	A	JFMAMJ JASOND								
	DHZ	1974	K	A	JFMAMJ JASOND								
	DHZ	1975	K	A	JFMAMJ JASOND								
	DHZ	1976	K										
	DHZ	1977	K	ABC	J			BC	J				
PIONERSKAYA	DHZ	1957	K	ABC	JASOND			ABC	JASOND				
PIO	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(159.73 095.50)													
	DHZ	1971		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972		ABC	JF			ABC	JF				
PLAISANCE	DHZ	1966		AB	JFMAMJ JASOND								
PLS													
(110.43 057.67)													
PLATEAU	DHZ	1966		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	FMAMJ JASOND		
PTU	DHZ	1967		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(169.25 040.50)	DHZ	1968		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASON		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
POLA	DHZ	1892						A	JFMAMJ JASOND				
POL													
(045.13 013.85)	DHZ	1896						A	JFMAMJ JASOND				
	DHZ	1897						A	JFMAMJ JASOND				
	DHZ	1898						A	JFMAMJ JASOND				
	DHZ	1899						A	JFMAMJ JASOND				
	DHZ	1900						A	JFMAMJ JASOND				
	DHZ	1901						A	JFMAMJ JASOND				
	DHZ	1902						A	JFMAMJ JASOND				
	DHZ	1903						A	JFMAMJ JASOND				
	DHZ	1904						A	JFMAMJ JASOND				
	DHZ	1905						A	JFMAMJ JASOND				
	DHZ	1906						A	JFMAMJ JASOND				
	DHZ	1907						A	JFMAMJ JASOND				
	DHZ	1908						A	JFMAMJ JASOND				
	DHZ	1909						A	JFMAMJ JASOND				
	DHZ	1910						A	JFMAMJ JASOND				
	DHZ	1911						A	JFMAMJ JASOND				
	DHZ	1912						A	JFMAMJ JASOND				
	DHZ	1913						A	JFMAMJ JASOND				
	DHZ	1914						A	JFMAMJ JASOND				
	DHZ	1915						A	JFMAMJ JASOND				
	DHZ	1916						A	JFMAMJ JASOND				
	DHZ	1917						A	JFMAMJ JASOND				
	DHZ	1918						A	JFMAMJ JASOND				
	DHZ	1919						A	JFMAMJ JASOND				
	DHZ	1920						A	JFMAMJ JASOND				
	DHZ	1921						A	JFMAMJ JASOND				
	DHZ	1922						A	JFMAMJ JASOND				
PORT ALFRED	DHZ	1972	K										
CZT	DHZ	1973	K										
(136.43 051.87)	DHZ	1974	K					ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1975	K					AB	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1976	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1977	K					AB	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1978	K					ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1979	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
PORT-AUX-FRANCAI	DHZ	1957		ABC	OND			ABC	OND	B	JFMAMJ JASOND		
KGL	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
(139.35 070.20)	DHZ	1959	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	ON
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFM J J ND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
PORT-AUX-FRANCAI	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
KGL	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
(139.35 070.20)	DHZ	1971	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1972		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1973		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1976	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1977	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1979	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1980		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
PORT MORESBY	DHZ	1958	K	ABC	FMAMJ JASOND			ABC	AMJ JASOND				
PMG	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	OND	A C	JFMAMJ JASOND				
(099.40 147.15)	DHZ	1960	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	ASOND	A	ASOND
	DHZ	1962	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFM SO D	A	JFM SO D
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JF AMJ	A	JF AMJ
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JASO	A	JASO
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFM	A	JFM
	DHZ	1971	K	ABC	JFMAMJ JASOND	A	JFMAMJ JASO						
	DHZ	1972	K	ABC	JFMAMJ JASOND								
	DHZ	1973	K	ABC	JFMAMJ JASOND								
	DHZ	1974	K	ABC	JFMAMJ JASOND								
	DHZ	1975	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K	A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1979	K	A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMA	A	JFMA		
	DHZ	1981	K	A	JFMAMJ			A	JFMAMJ	A	JFMAMJ		
POTSDAM	DHZ	1890						A	JFMAMJ JASOND				
POT	DHZ	1891						A	JFMAMJ JASOND				
(037.62 013.07)	DHZ	1892						A	JFMAMJ JASOND				
	DHZ	1893						A	JFMAMJ JASOND				
	DHZ	1894						A	JFMAMJ JASOND				
	DHZ	1895						A	JFMAMJ JASOND				
	DHZ	1896						A	JFMAMJ JASOND				
	DHZ	1897						A	JFMAMJ JASOND				
	DHZ	1898						A	JFMAMJ JASOND				
	DHZ	1899						A	JFMAMJ JASOND				
	DHZ	1900						A	JFMAMJ JASOND				
	DHZ	1901						A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
POTSDAM	DHZ	1902						A	JFMAMJ JASOND				
POT	DHZ	1903						A	JFMAMJ JASOND				
(037.62 013.07)	DHZ	1904						A	JFMAMJ JASOND				
	DHZ	1905						A	JFMAMJ JASOND				
	DHZ	1906						A	JFMAMJ JASOND				
	DHZ	1907						A	JFMAMJ JASOND				
PRICE	DHZ	1957		ABC	J JASOND			ABC	J JASOND				
PCU	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(050.38 249.22)	DHZ	1959		AB	J			AB	J				
PRUHONICE	DHZ	1952	K					A	JFMAMJ JASOND				
PRU	DHZ	1953	K					A	JFMAMJ JASOND				
(040.02 014.55)	DHZ	1954	K					A C	JFMAMJ JASOND				
	DHZ	1955	K					A	JFMAMJ JASOND				
	DHZ	1956	K					A	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1960	K	B	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1961	K					AB	JFMAMJ JASOND				
	DHZ	1962	K					AB	JFMAMJ JASOND				
	DHZ	1963	K					AB	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K					AB	JFMAMJ JASOND				
	DHZ	1966	K					AB	JFMAMJ JASOND				
	DHZ	1967	K					AB	JFMAMJ JASOND				
	DHZ	1968	K					AB	JFMAMJ JASOND				
	DHZ	1969	K					ABC	JFMAMJ JASOND				
	DHZ	1970	K					AB	JFMAMJ JASOND				
	DHZ	1971	K					AB	JFMAMJ JASOND				
	DHZ	1972	K					AB	JFMAMJ JASOND				
QUETTA	DHZ	1953						A	OND				
QUE	DHZ	1954						A	JFMAMJ JASOND				
(059.82 066.95)	DHZ	1955	K					A	JFMAMJ JASOND				
	DHZ	1956	K					A	JFMAMJ JASOND				
	DHZ	1957	K										
	DHZ	1958	K										
	DHZ	1959	K					BC	JFMAMJ JASOND				
	DHZ	1960	K					BC	JFMAMJ JASOND				
	DHZ	1961	K					BC	JFMAMJ JASOND				
	DHZ	1962	K					BC	JFMAMJ JASOND				
	DHZ	1963	K					A C	JFMAMJ JASOND				
	DHZ	1964	K					A C	JFMAMJ JASOND				
	DHZ	1965	K					C	JFMAMJ JASOND				
	DHZ	1966	K					C	JFMAMJ JASOND				
	DHZ	1967	K										
	DHZ	1968	K										
	DHZ	1969	K										

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
QUETTA	DHZ	1970	K										
QUE	DHZ	1971	K										
(059.82 066.95)	DHZ	1972	K										
	DHZ	1973	K										
	DHZ	1974	K										
	DHZ	1975	K										
	DHZ	1976	K										
	DHZ	1977	K										
	DHZ	1978	K										
	DHZ	1979	K										
	DHZ	1980	K										
RANKIN INLET	DHZ	1973		A	MJ J								
RIT	DHZ	1974		ABC	J JASOND								
(027.20 267.67)	DHZ	1975		ABC	JFMAMJ JASOND								
	DHZ	1976		ABC	JFMAMJ JASOND							A	AS ND*
	DHZ	1977										A	MAMJ JASOND*
	DHZ	1978										A	JFMAMJ JASOND*
	DHZ	1979										A	JFMA *
	DHZ	1980										A	OND*
	DHZ	1981										A	JF AM *
	DHZ	1982											
RESOLUTE BAY	XYZ	1952	K										
RES	XYZ	1953	K										
(015.30 265.10)	XYZ	1954	K	B	JFMAMJ JASOND								
	XYZ	1955	K	B	JFMAMJ JASOND								
	XYZ	1956		B	JFMAMJ JASOND								
	XYZ	1957		ABC	JASOND			ABC	JFMAMJ JASOND				
	XYZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1959		AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1960		AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	XYZ	1961		AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	XYZ	1962		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	XYZ	1963		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	XYZ	1964		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	XYZ	1965		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1966		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ ND
	XYZ	1967		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	ASOND
	XYZ	1968		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ
	XYZ	1969		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J JASO
	XYZ	1970		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFM	A	JFM
	XYZ	1971		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1972		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	XYZ	1973		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JASOND*
	XYZ	1974		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1975		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1976		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1977		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1978		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
RESOLUTE BAY	XYZ	1979		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
RES	XYZ	1980		A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
(015.30 265.10)	XYZ	1981		A	JFMAMJ JASOND								
RIO DE JANEIRO	DHZ	1924						C	JFMAMJ JASOND				
RDJ	DHZ	1925						C	JFMAMJ JASOND				
(112.92 316.82)													
ROBURENT	DHZ	1964	K	A	JASOND			AB	SONDD	A	SOND		
ROB	DHZ	1965	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
(045.70 007.88)	DHZ	1966	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1967	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1968	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1970	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1971	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1972	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1973	K	A	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1974		A	JFMAMJ JASOND								
	DHZ	1975		A	JFMAMJ JASOND								
	DHZ	1976		A	JFMAMJ JASOND								
	DHZ	1977		A	JFMAMJ JASOND								
	DHZ	1978		A	JFMAMJ JASOND								
	DHZ	1979		A	JFM								
ROI BAUDOUIN	DHZ	1958						A	MJ JASOND				
RBD	DHZ	1959						A	JF				
(160.43 024.30)													
	DHZ	1964	K	ABC	J JASOND			AB	J JASOND				
	DHZ	1965	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	M	A	M
RUDE SKOV	DHZ	1927						A	JFMAMJ JASOND				
RSV	DHZ	1928						A	JFMAMJ JASOND				
(034.15 012.45)	DHZ	1929						A	JFMAMJ JASOND				
	DHZ	1930						A	JFMAMJ JASOND				
	DHZ	1931						A	JFMAMJ JASOND				
	DHZ	1932						A C	JFMAMJ JASOND				
	DHZ	1933						A C	JFMAMJ JASOND				
	DHZ	1934						A	JFMAMJ JASOND				
	DHZ	1935						A	JFMAMJ JASOND				
	DHZ	1936						A	JFMAMJ JASOND				
	DHZ	1937						A	JFMAMJ JASOND				
	DHZ	1938						A	JFMAMJ JASOND				
	DHZ	1939						A	JFMAMJ JASOND				
	DHZ	1940	K					A	JFMAMJ JASOND				
	DHZ	1941	K					A	JFMAMJ JASOND				
	DHZ	1942	K					A	JFMAMJ JASOND				
	DHZ	1943	K					A	JFMAMJ JASOND				
	DHZ	1944	K					A	JFMAMJ JASOND				
	DHZ	1945	K					A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
RUDE SKOV	DHZ	1946	K					A	JFMAMJ JASOND				
RSV	DHZ	1947	K					A	JFMAMJ JASOND				
(034.15 012.45)	DHZ	1948	K					A	JFMAMJ JASOND				
	DHZ	1949	K					A	JFMAMJ JASOND				
	DHZ	1950	K					A	JFMAMJ JASOND				
	DHZ	1951	K					A	JFMAMJ JASOND				
	DHZ	1952	K					A C	JFMAMJ JASOND				
	DHZ	1953	K					A C	JFMAMJ JASOND				
	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K					A C	JFMAMJ JASOND				
	DHZ	1956	K					A C	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	J
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	M
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMA
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	M
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1979	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND								
	DHZ	1981	K	A C	JFMAMJ								
SABHAWALA	DHZ	1964						A	JFMAMJ JASOND				
SAB	DHZ	1965	K					AB	JFMAMJ JASOND				
(059.67 077.80)	DHZ	1966						AB	JFMAMJ JASOND				
	DHZ	1967						A	JFMAMJ JASOND				
	DHZ	1968						A	JFMAMJ JASOND				
	DHZ	1969						A	JFMAMJ JASOND				
	DHZ	1970						A	JFMAMJ JASOND				
	DHZ	1971	K					A C	JFMAMJ JASOND				
	DHZ	1972	K					ABC	JFMAMJ JASOND				
	DHZ	1973	K					ABC	JFMAMJ JASOND				
	DHZ	1974	K					ABC	JFMAMJ JASOND				
	DHZ	1975						ABC	JFMAMJ JASOND				
	DHZ	1976						ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
SABHAWALA	DHZ	1977	K					A C	JFMAMJ JASOND				
SAB	DHZ	1978						A	JFMAMJ JASOND				
(059.67 077.80)													
SACHS HARBOUR	DHZ	1977										A	SOND*
SAH	DHZ	1978										A	MAMJ JASOND*
(018.00 235.00)	DHZ	1979										A	JFMAMJ JASOND*
	DHZ	1980										A	JFMAMJ JASOND*
	DHZ	1981										A	JFMAMJ JASOND*
	DHZ	1982										A	JFMAM *
SAN FERNANDO	DHZ	1904						A	JFMAMJ JASOND				
SFS	DHZ	1905						A	JFMAMJ JASOND				
(053.53 353.80)	DHZ	1906						A	JFMAMJ JASOND				
	DHZ	1907						A	JFMAMJ JASOND				
	DHZ	1908						A	JFMAMJ JASOND				
	DHZ	1909						A	JFMAMJ JASOND				
	DHZ	1910						A	JFMAMJ JASOND				
	DHZ	1911						A	JFMAMJ JASOND				
	DHZ	1912						A	JFMAMJ JASOND				
	DHZ	1920						A	JFMAMJ JASOND				
	DHZ	1921						A	JFMAMJ JASOND				
	DHZ	1922						A	JFMAMJ JASOND				
	DHZ	1923						A	JFMAMJ JASOND				
	DHZ	1924						A	JFMAMJ JASOND				
	DHZ	1925						A	JFMAMJ JASOND				
	DHZ	1926						A	JFMAMJ JASOND				
	DHZ	1927						A	JFMAMJ JASOND				
	DHZ	1928						A	JFMAMJ JASOND				
	DHZ	1929						A	JFMAMJ JASOND				
	DHZ	1930						A	JFMAMJ JASOND				
	DHZ	1931						A	JFMAMJ JASOND				
	DHZ	1932						A	JFMAMJ JASOND				
	DHZ	1933						A	JFMAMJ JASOND				
	DHZ	1934						A	JFMAMJ JA ND				
	DHZ	1935						A	JFMAMJ JASOND				
	DHZ	1936						A	JFMAMJ JASOND				
	DHZ	1937						A	JFMAMJ JASOND				
	DHZ	1938						A	JFMAMJ JASOND				
	DHZ	1939						A	JFMAMJ JASOND				
	DHZ	1940	K					A	JFMAMJ JASOND				
	DHZ	1941	K					A	JFMAMJ JASOND				
	DHZ	1942	K					A	JFMAMJ JASOND				
	DHZ	1943	K					A	JFMAMJ JASOND				
	DHZ	1944	K					A	JFMAMJ JASOND				
	DHZ	1945	K					A	JFMAMJ JASOND				
	DHZ	1946	K					A	JFMAMJ JASOND				
	DHZ	1947	K					A	JFMAMJ JASOND				
	DHZ	1948	K	C	JASOND			A	JFMAMJ JASOND				
	DHZ	1949	K	C	JFMAMJ JASOND			A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
SAN FERNANDO	DHZ	1950	K	C	JFMAMJ JASOND			A	JFMAMJ JASOND				
SFS	DHZ	1951	K	C	JFMAMJ JASOND			A	JFMAMJ JASOND				
(053.53 353.80)	DHZ	1952	K	C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1953	K	C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1954	K	C	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1955	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1956	K	C	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	M	A	M
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ OND			ABC	JFMAMJ JASOND				
	DHZ	1978	K										
	DHZ	1979	K										
	DHZ	1980	K										
	DHZ	1981	K										
SAN JOSE	DHZ	1969		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
SJB													
(113.22 314.15)													
SAN JUAN	DHZ	1926		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
SJG	DHZ	1927		A	JFMAMJ J			A C	JFMAMJ JASOND	A	JFMAMJ J		
(071.88 293.85)	DHZ	1928		A	FMAMJ JASOND			A C	JFMAMJ JASOND	A	FMAMJ JASOND		
	DHZ	1929		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1930		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1931		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1932		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1933		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1934		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1935		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1936		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1937		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1938	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1939	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1940	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
SAN JUAN	DHZ	1941	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
SJG	DHZ	1942	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(071.88 293.85)	DHZ	1943	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1944	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1945	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1946	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1947	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1948	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1949	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1950	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1951	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1952	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1953	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1954	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1955	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1956	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1957	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	ASOND
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	OND
	DHZ	1963	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	ASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMA
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	M ND*
	DHZ	1979	K	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1980	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	F AMJ SO D*
	DHZ	1981	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND			A	JFMAMJ JASOND*
	DHZ	1982	K									A	JFMA *
SANAE	DHZ	1961						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
SNA	DHZ	1962						ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(160.30 357.65)	DHZ	1963						ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964	K					ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965						ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966						ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1967						ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY	MEDIUM	WDC	HOURLY VALUES ON	TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
SANAE	DHZ	1968						ABC	JFMAMJ	JASOND	A	JFMAMJ	JASOND		
SNA	DHZ	1969						BC	JFMAMJ	JASOND					
(160.30 357.65)	DHZ	1970	K					ABC	JFMAMJ	JASOND	A	JFMAMJ	JASOND		
	DHZ	1971						ABC	JF J	JASOND	A	JFMAMJ	JASOND		
	DHZ	1972						ABC	JFMAMJ	JASOND	A	JFMAMJ	JASOND		
	DHZ	1973						ABC	JFMAMJ	JASOND	A	JFMAMJ	JASOND		
	DHZ	1974						ABC	JFMAMJ	JASOND	A	JFMAMJ	JASOND		
	DHZ	1975						ABC	JFMAMJ	JASOND	A	JFMAMJ	JASOND		
	DHZ	1976						ABC	JFMAMJ	JASOND					
	DHZ	1977						BC	JFMAMJ	JASOND					
	DHZ	1978						C	JFMAMJ	JASOND					
	DHZ	1979						A	JFMAMJ	JASOND					
	DHZ	1980						A	JFMAMJ	JASOND					
	DHZ	1981						A	JFMAMJ	JASOND					
SAO MIGUEL	DHZ	1932						A C		ASOND					
SMG	DHZ	1933						A C	JFMAMJ	JA					
(052.23 334.35)															
	DHZ	1951	K												
	DHZ	1952	K												
	DHZ	1953	K												
	DHZ	1954	K												
	DHZ	1955	K												
	DHZ	1956	K												
	DHZ	1957	K	A	JASOND										
	DHZ	1958	K	A	JFMAMJ JASOND			B	JFMAMJ	JASOND					
	DHZ	1959	K	A	JFMAMJ J										
	DHZ	1960	K	A	JFMAMJ JASOND			A	JFMAMJ	JA D					
	DHZ	1961	K	A	JFMAMJ JASOND			A	JF						
	DHZ	1962	K	A	JFMAMJ JASOND										
	DHZ	1963	K												
	DHZ	1964	K	ABC	JFMAMJ JASOND			B	JFMAMJ	JASOND					
	DHZ	1965	K	ABC	JFMAMJ JASOND						A		ON	A	ON
	DHZ	1966	K	A	JFMAMJ			B	JFMAMJ	JASOND					
	DHZ	1967	K	A	JFMAMJ JASOND			B	JFMAMJ	JASOND					
	DHZ	1968	K	A	JFMAMJ JASOND			B	JFMAMJ	JASOND					
	DHZ	1969	K												
	DHZ	1970	K					B	JFMAMJ	JASOND					
	DHZ	1971	K	A	JFMAMJ JASOND										
	DHZ	1972	K	A	JFMAMJ JASOND										
	DHZ	1973	K	A	JFMAMJ JASOND										
	DHZ	1974	K	A	JFMAMJ JASOND										
	DHZ	1975	K	A	JFMAMJ JASOND			A	JFMAMJ	JASOND					
	DHZ	1976	K	A	JFMAMJ JASOND										
	DHZ	1977	K	A	JFMAMJ JASOND										
	DHZ	1978	K												
	DHZ	1979	K												
	DHZ	1980	K												
SCORESBYSUND	DHZ	1932						A		D					
SCO															
(019.52 338.03)															

OBSERVATORY	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
	COMP											
SCORESBYSUND	DHZ	1933					A	JFMAMJ JA				
SCO												
(019.52 338.03)												
SCOTT BASE	XYZ	1957 K	ABC	JASOND	ABC	JASOND	ABC	JASOND				
SBA	XYZ	1958 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
(167.85 166.78)	XYZ	1959 K										
	XYZ	1960 K										
	XYZ	1961 K										
	XYZ	1962 K										
	XYZ	1963 K										
	XYZ	1964 K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	XYZ	1965 K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	XYZ	1966 K	ABC	JFMAMJ JASOND								
	XYZ	1967 K										
	XYZ	1968 K	ABC	JFMAMJ JASOND								
	XYZ	1969 K										
	XYZ	1970 K										
	XYZ	1971 K										
	XYZ	1972 K										
	XYZ	1973 K										
	XYZ	1974 K										
	XYZ	1975 K										
	XYZ	1976 K	ABC	JFMAMJ JASOND								
	XYZ	1977 K										
	XYZ	1978 K										
	XYZ	1979 K										
	XYZ	1980 K										
	XYZ	1981 K										
SEDDIN	DHZ	1908					A	JFMAMJ JASOND				
SED	DHZ	1909					A	JFMAMJ JASOND				
(037.72 013.02)	DHZ	1910					A	JFMAMJ JASOND				
	DHZ	1911					A	JFMAMJ JASOND				
	DHZ	1912					A	JFMAMJ JASOND				
	DHZ	1913					A	JFMAMJ JASOND				
	DHZ	1914					A	JFMAMJ JASOND				
	DHZ	1915					A	JFMAMJ JASOND				
	DHZ	1916					A	JFMAMJ JASOND				
SEYKHA	DHZ	1973	ABC	ND								
SEY	DHZ	1974	ABC	JFMAMJ JASOND								
(019.90 072.50)	DHZ	1975	ABC	JFMAMJ JASOND								
	DHZ	1976	ABC	JFMAMJ JASOND								
	DHZ	1977	B	JF								
SHESHAN	DHZ	1933					C	JFMAMJ JASOND				
SSH												
(058.90 121.18)	DHZ	1936					C	JFMAMJ JASOND				
	DHZ	1937					C	JFMAMJ JASOND				
	DHZ	1947					A C	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
SHESHAN	DHZ	1948						C	JFMAMJ JASOND				
SSH	DHZ	1949						C	JFMAMJ JASOND				
(058.90 121.18)	DHZ	1950						ABC	JFMAMJ JASOND				
	DHZ	1951						ABC	JFMAMJ JASOND				
	DHZ	1952						ABC	JFMAMJ JASOND				
	DHZ	1953						ABC	JFMAMJ JASOND				
	DHZ	1954						ABC	JFMAMJ JASOND				
	DHZ	1955						ABC	JFMAMJ JASOND				
	DHZ	1956						ABC	JFMAMJ JASOND				
	DHZ	1957						ABC	JFMAMJ JASOND				
	DHZ	1958						ABC	JFMAMJ JASOND				
	DHZ	1959						ABC	JFMAMJ JASOND				
	DHZ	1960						ABC	JFMAMJ JASOND				
	DHZ	1961						ABC	JFMAMJ JASOND				
	DHZ	1962						ABC	JFMAMJ JASOND				
	DHZ	1963						ABC	JFMAMJ JASOND				
	DHZ	1964						ABC	JFMAMJ JASOND				
	DHZ	1965						ABC	JFMAMJ JASOND				
	DHZ	1966						ABC	JFMAMJ JASOND				
	DHZ	1967						ABC	JFMAMJ JASOND				
	DHZ	1968						ABC	JFMAMJ JASOND				
	DHZ	1969						ABC	JFMAMJ JASOND				
	DHZ	1970						ABC	JFMAMJ JASOND				
	DHZ	1971						ABC	JFMAMJ JASOND				
	DHZ	1972						ABC	JFMAMJ JASOND				
	DHZ	1973						ABC	JFMAMJ JASOND				
	DHZ	1974						ABC	JFMAMJ JASOND				
	DHZ	1975						A	JFMAMJ JASOND				
	DHZ	1976						A	JFMAMJ JASOND				
	DHZ	1977						A	JFMAMJ JASOND				
	DHZ	1979						A	JFMAMJ JASOND				
SIMFEROPOL	DHZ	1957				ABC	JASOND						
SIM	DHZ	1958				ABC	JFMAMJ JASOND						
(045.17 034.07)	DHZ	1959				AB	JFMAMJ JASOND						
SIMOSATO	DHZ	1954	K					A C	SOND				
SSO	DHZ	1955	K					A C	JFMAMJ JASOND				
(056.43 135.93)	DHZ	1956	K					A C	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND	ABC	JASOND	ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1959	K	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1960	K			ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1961	K			ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1962	K			ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
SIMOSATO	DHZ	1965	K	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
SSO	DHZ	1966	K	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
(056.43 135.93)	DHZ	1967	K	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1968	K	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1969	K	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1970	K	BC	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K					ABC	JFMAMJ JASOND				
	DHZ	1978						ABC	JF				
	DHZ	1979		B	JFMAMJ JASOND								
SITKA	DHZ	1902		A	MAMJ JASOND			A C	JFMAMJ JASOND	A	MAMJ JASOND		
SIT	DHZ	1903		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
(032.93 224.67)	DHZ	1904		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1905		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1906		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1907		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1908		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1909		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1910		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1911		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1912		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1913		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1914		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1915		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1916		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1917		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1918		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1919		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1920		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1921		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1922		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1923		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1924		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1925		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1926		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1927		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1928		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1929		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1930		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1931		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1932		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1933		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1934		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1935		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
SITKA	DHZ	1936		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
SIT	DHZ	1937	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(032.93 224.67)	DHZ	1938	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1939	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1940	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1941	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1942	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1943	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1944	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1945	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1946	K	A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1947	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1948	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1949	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1950	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1951	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1952	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1953	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1954	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1955	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1956	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1957	K	ABC	JFMAMJ JASOND	ABC	JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAM SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JF
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	A
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1979	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1980	K	BC	JFMAMJ JASOND			C	JFMAMJ JASOND				
	DHZ	1981	K	A C	JFMAMJ JASOND			C	JFM				
SLUTZK	DHZ	1882						C	ASOND				
SLU	DHZ	1883						C	JFMAMJ JA				
(030.33 030.48)													

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
SLUTZK	DHZ	1932						C	JFMAMJ JASOND				
SLU	DHZ	1933						C	JFMAMJ JASOND				
(030.33 030.48)													
SODANKYLA	DHZ	1914						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
SOD	DHZ	1915						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(022.63 026.63)	DHZ	1916						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1917						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1918						A	JF J JASOND	A	JF J JASOND		
	DHZ	1919						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1920						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1921						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1922						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1923						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1924						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1925						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1926						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1927						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1928						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1929						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1930						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1931						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1932						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1933						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1934						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1935						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1936						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1937						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1938						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1939						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1940	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1941	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1942	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1943						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1944						A C	JFMAMJ JASOND	A	JFMAMJ JAS		
	DHZ	1945						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1946						A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1947	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1948	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1949	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1950	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1951	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1952	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1953	K					A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1954	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1955	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1956	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1957	K	ABC	JASOND	ABC	JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K	B	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1960	K					AB	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
SODANKYLA	DHZ	1961	K					AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
SOD	DHZ	1962	K					ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(022.63 026.63)	DHZ	1963	K					AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAM	A	JFMAM
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	J JAS	A	J JAS
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	F	A	F
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1976	K	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1981	K	A C	JFMAMJ JASOND	C	JFMAM	A C	JFMAMJ JASOND				
	DHZ	1982		A	JFMAMJ			A	JFMAMJ				
SOUTH GEORGIA	DHZ	1975		ABC	JFMAMJ JASOND								
SGE	DHZ	1976		A C	JFMAMJ JASOND								
(144.28 323.52)	DHZ	1977		A C	JFMAMJ JASOND								
	DHZ	1978		A C	JFMAMJ JASOND								
	DHZ	1979		A	JFMAMJ JASOND								
	DHZ	1980		A	JFMAMJ JASOND								
SOUTH POLE	DHZ	1957		BC	J JASOND								
SPA	DHZ	1958		BC	JFMAMJ JASOND								
(180.00 000.00)	DHZ	1959	K	ABC	JFMAMJ JASON			ABC	JFMAMJ JASOND	A	JFMAMJ JASON		
	DHZ	1960	K	ABC	FMAMJ JASOND			ABC	FMAMJ JASOND	A	FMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFM MJ JA
	DHZ	1963	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	MAMJ JASOND	A	MAMJ JASOND	A	MAMJ
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	AB	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1971	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1972	K	A	JFMAMJ JASOND								
	DHZ	1973	K	A	JFMAMJ JASOND								
	DHZ	1974	K	A	JFMAMJ JASO								
SPITZBERGEN	DHZ	1932						A	SOND				
SPB													
(011.50 015.10)													

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
SPITZBERGEN	DHZ	1933						A	JFMAMJ JA				
SPB													
(011.50 015.10)													
SREDNIKAN	DHZ	1940	K										
SRE	DHZ	1941	K										
(027.57 152.32)													
	DHZ	1943	K										
	DHZ	1944	K										
	DHZ	1945	K										
	DHZ	1946	K										
	DHZ	1955	K										
	DHZ	1956	K										
	DHZ	1957	K	ABC	JASOND			ABC	JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1966	K	ABC	JFMAMJ JASO			ABC	JFMAMJ JASO				
	DHZ	1967											
	DHZ	1968	K										
ST JOHNS	XYZ	1968	K	ABC	JASOND			ABC	ASOND	A	ASOND		
STJ	XYZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	D*
(042.40 307.32)	XYZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1971	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1972	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1974	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1975	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1976	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1977	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1979		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1980		A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1981		A	JFMAMJ JAS								
STONYHURST	DHZ	1958		ABC	MAMJ JASOND								
STO													
(036.15 357.53)	DHZ	1960	K										
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1967						AB	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS		WDC	RAPID RUN MAGNETOGRAMS		WDC	HOURLY VALUES ANY	MEDIUM	WDC	HOURLY VALUES ON	TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)	
SUKKERTOPPEN	DHZ	1964		ABC	JFMAMJ	JASOND	A C	JFMAMJ	JASOND									
SKT	DHZ	1965		A C	JFMAMJ	JASOND	A C	JFMAMJ	JASOND	A		ON	A		ON	A		ON
(024.58 307.10)	DHZ	1966		A	M					A	M		A	M		A	M	
SURLARI	DHZ	1957	K	AB		JASOND				ABC	J	JASOND						
SUA	DHZ	1958	K	AB	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
(045.32 026.25)	DHZ	1959	K	AB	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1960	K	AB	JFMAMJ	JASOND				AB	JFMAMJ	JASOND						
	DHZ	1961	K	AB	JFMAMJ	JASOND				AB	JFMAMJ	JASOND	A		ASOND	A		ASOND
	DHZ	1962	K	AB	JFMAMJ	JASOND				AB	JFMAMJ	JASOND						
	DHZ	1963	K	AB	JFMAMJ	JASOND				AB	JFMAMJ	JASOND						
	DHZ	1964	K	AB	JFMAMJ	JASOND				AB	JFMAMJ	JASOND	A	JFMAMJ	JASOND	A	J	SOND
	DHZ	1965	K	AB	JFMAMJ	JASOND				AB	JFMAMJ	JASOND	A	JFMAMJ	JASOND	A	JFM	
	DHZ	1966	K	AB	JFMAMJ	JASOND				AB	JFMAMJ	JASOND						
	DHZ	1967	K	AB	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1968	K	AB	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1969	K	AB	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND						
	DHZ	1970	K	AB	JFMAMJ	JASOND				AB	JFMAMJ	JASOND						
	DHZ	1971	K	AB	JFMAMJ	JASOND				AB	JFMAMJ	JASOND						
	DHZ	1972	K	AB	JFMAMJ	JASOND				AB	JFMAMJ	JASOND						
	DHZ	1973	K	AB	JFMAMJ	JASOND				AB	JFMAMJ	JASOND						
	DHZ	1974	K	A	JFMAMJ					AB	JFMAMJ	JASOND						
	DHZ	1975	K							AB	JFMAMJ	JASOND						
	DHZ	1976	K							AB	JFMAMJ	JASOND						
	DHZ	1977	K							AB	JFMAMJ	JASOND						
	DHZ	1978	K							AB	JFMAMJ	JASOND						
	DHZ	1979	K							ABC	JFMAMJ	JASOND						
	DHZ	1980	K							ABC	JFMAMJ	JASOND						
	DHZ	1981	K															
SVERDLOVSK	DHZ	1932								C	JFMAMJ	JASOND						
SVD																		
(033.27 061.07)	DHZ	1939	K															
	DHZ	1940	K															
	DHZ	1941	K															
	DHZ	1942	K															
	DHZ	1943	K															
	DHZ	1944	K															
	DHZ	1945	K															
	DHZ	1946	K															
	DHZ	1947	K															
	DHZ	1955	K															
	DHZ	1956	K															
	DHZ	1957	K	ABC		JASOND				ABC		JASOND						
	DHZ	1958	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND			
	DHZ	1959	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND			
	DHZ	1960	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND			
	DHZ	1961	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND			
	DHZ	1962	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND			

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
SVERDLOVSK	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
SVD	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	J SOND
(033.27 061.07)	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	SO D
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JF AMJ J
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMA
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978		C	JFMAMJ JASOND			C	JFMAMJ JASOND				
	DHZ	1979		C	JFMAMJ JASOND			C	JFMAMJ JASOND				
	DHZ	1980		C	JFMAMJ JASOND			C	JFMAMJ JASOND				
	DHZ	1981		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1982		A	JF			A	JF				
SWIDER	DHZ	1921						A	JFMAMJ JASOND				
SWI	DHZ	1922						A	JFMAMJ JASOND				
(037.88 021.25)	DHZ	1923						A	JFMAMJ JASOND				
	DHZ	1924						A	JFMAMJ JASOND				
	DHZ	1925						A	JFMAMJ JASOND				
	DHZ	1926						A	JFMAMJ JASOND				
	DHZ	1927						A	JFMAMJ JASOND				
	DHZ	1928						A	JFMAMJ JASOND				
	DHZ	1929						A	JFMAMJ JASOND				
	DHZ	1930						A C	JFMAMJ JASOND				
	DHZ	1931						A C	JFMAMJ JASOND				
	DHZ	1932						A C	JFMAMJ JASOND				
	DHZ	1933						A C	JFMAMJ JASOND				
	DHZ	1934						A C	JFMAMJ JASOND				
	DHZ	1935						A C	JFMAMJ JASOND				
	DHZ	1936						A	JFMAMJ JASOND				
	DHZ	1937	K					A C	JFMAMJ JASOND				
	DHZ	1938	K					A C	JFMAMJ JASOND				
	DHZ	1939	K					A C	JFMAMJ JASOND				
	DHZ	1940	K					A C	JFMAMJ JASOND				
	DHZ	1941	K					A C	JFMAMJ JASOND				
	DHZ	1942	K					A	JFMAMJ JASOND				
	DHZ	1943	K					A C	JFMAMJ JASOND				
	DHZ	1944	K					A C	JFMAMJ JASOND				
	DHZ	1945	K					A C	JFMAMJ JASOND				
	DHZ	1946	K					A C	JFMAMJ JASOND				
	DHZ	1947	K					A C	JFMAMJ JASOND				
	DHZ	1948	K					A C	JFMAMJ JASOND				
	DHZ	1949	K					A C	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
SWIDER	DHZ	1950	K					A C	JFMAMJ JASOND				
SWI	DHZ	1951	K					ABC	JFMAMJ JASOND				
(037.88 021.25)	DHZ	1952	K					ABC	JFMAMJ JASOND				
	DHZ	1953	K					A C	JFMAMJ JASOND				
	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K					A C	JFMAMJ JASOND				
	DHZ	1956	K					A C	JFMAMJ JASOND				
	DHZ	1957	K	AB	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K					ABC	JFMAMJ JASOND				
	DHZ	1962	K					ABC	JFMAMJ JASOND				
	DHZ	1963	K					ABC	JFMAMJ JASOND				
	DHZ	1964	K					ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K					ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K					ABC	JFMAMJ JASOND				
	DHZ	1967	K										
	DHZ	1968	K										
	DHZ	1969	K										
	DHZ	1970	K										
	DHZ	1971	K										
	DHZ	1972	K										
	DHZ	1973	K										
	DHZ	1974	K										
	DHZ	1975	K										
SYOWA STATION	DHZ	1959		ABC	FMAMJ JASOND								
SYO	DHZ	1960		AB	J								
(159.00 039.58)													
	DHZ	1966		ABC	MAMJ JASOND								
	DHZ	1967	K	ABC	J								
	DHZ	1968	K	ABC	FMAMJ JASOND	B	FMAMJ JASOND						
	DHZ	1969	K	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	DHZ	1970	K	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	DHZ	1971	K	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	DHZ	1972	K	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	DHZ	1973		A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	DHZ	1974		ABC	JFMAMJ JASOND	B	J						
	DHZ	1975	K	ABC	JFMAMJ JASOND								
	DHZ	1976	K	ABC	JFMAMJ JASOND								
	DHZ	1977	K	ABC	JFMAMJ JASOND								
	DHZ	1978	K	ABC	JFMAMJ JASOND								
	DHZ	1979	K	ABC	JFMAMJ JASOND								
	DHZ	1980		A	JFMAMJ JASOND								
	DHZ	1981		A	J								
TAHITI	DHZ	1958		ABC	AMJ JASOND			ABC	JFMAMJ JASOND				
TAH	DHZ	1959		ABC	JF			ABC	JFMAMJ JASOND				
(107.55 210.38)	DHZ	1960						B	JF				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
TALARA	DHZ	1957		ABC	J JASOND			ABC	J JASOND				
TAL	DHZ	1958		ABC	FMAMJ JASOND			ABC	F MJ JASOND				
(094.63 278.70)	DHZ	1959		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960		ABC	JF			ABC	JF				
TALKEETNA	DHZ	1977										A	A N *
TLK	DHZ	1978										A	AM JASOND*
(027.70 209.90)	DHZ	1979										A	JFMAMJ JASOND*
	DHZ	1980										A	JFMAMJ JASOND*
	DHZ	1981										A	JFMAMJ JASOND*
	DHZ	1982										A	JFMA *
TAMANRASSET	DHZ	1952	K										
TAM	DHZ	1953	K					A	JFMAMJ JASOND				
(067.20 005.53)	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K										
	DHZ	1956	K										
	DHZ	1957	K	ABC	JASOND								
	DHZ	1958	K	ABC	JFMAMJ JASOND								
	DHZ	1959	K	ABC	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1960	K	A	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1961	K	A	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1962	K	A	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1963	K	A	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1964	K	A	JFMAMJ JASOND			B	JFMAMJ JASOND				
	DHZ	1965	K	A	JFMAMJ JASOND								
	DHZ	1966	K	A	JFMAMJ JASOND								
	DHZ	1967	K	A	JFMAMJ JASOND								
	DHZ	1968	K	A	JFMAMJ JASOND								
	DHZ	1969	K	A	JFMAMJ JASOND								
	DHZ	1970	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1971	K	A	JFMAMJ JASOND								
	DHZ	1972	K	A	JFMAMJ JASOND								
	DHZ	1973	K	A	JFMAMJ JASOND								
	DHZ	1974	K	A	JFMAMJ JASOND								
	DHZ	1975	K	A	JFMAMJ JASOND								
	DHZ	1976	K	A	JFMAMJ JASOND								
	DHZ	1977	K	A	JFMAMJ JASOND								
	DHZ	1979	K										
TAMBEY	DHZ	1973		ABC	ND								
TMB	DHZ	1974		ABC	JFMAMJ JASOND								
(018.50 071.80)	DHZ	1975		ABC	JFMAMJ JASOND								
	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977		AB	JFMAMJ JASON								
TANANARIVE	DHZ	1950	K										
TAN													
(108.92 047.55)													

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
TANANARIVE	DHZ	1951	K										
TAN	DHZ	1952	K										
(108.92 047.55)	DHZ	1953	K					A C	JFMAMJ JASOND				
	DHZ	1954	K					A C	JFMAMJ JASOND				
	DHZ	1955	K					A C	JFMAMJ JASOND				
	DHZ	1956	K					A C	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J SOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	ASO D	A	ASO D
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JF AMJ	A	JF AMJ
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JASO	A	JASO
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFM	A	JFM
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1976	K	AB	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1981						A	FMAMJ JAS D				
TANGERANG	DHZ	1964	K	ABC	AMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
TNG	DHZ	1965	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(096.17 106.63)	DHZ	1966	K	ABC	OND			A	JFMAMJ JASOND	A	OND	A	OND
	DHZ	1967	K	ABC	JFMAMJ JASOND			A	FMAMJ JASOND	A	AM SOND	A	AM SOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	J JAS	A	J JAS
	DHZ	1970	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND								
	DHZ	1973	K	ABC	JFMAMJ JASOND								
	DHZ	1974	K	ABC	JFMAMJ JASOND								
	DHZ	1975	K	A	JFMAMJ JA								
	DHZ	1976	K	ABC	MJ JASOND								
	DHZ	1977	K	A	JFMAMJ JASON								
	DHZ	1978	K	A	MJ JASOND								
	DHZ	1979	K	A C	JFMAMJ JASOND								
	DHZ	1980	K	A	JFM J JAS								
	DHZ	1981		A	JFMAMJ JASOND								
	DHZ	1982		A	JFMAM								
TASHKENT	DHZ	1941	K										
TKT													
(048.67 069.62)													

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
TASHKENT	DHZ	1942	K										
TKT	DHZ	1943	K										
(048.67 069.62)	DHZ	1944	K										
	DHZ	1945	K										
	DHZ	1946	K										
	DHZ	1955	K										
	DHZ	1956	K										
	DHZ	1957	K	ABC	JASOND			ABC	JASOND	B	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	J JASO
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1981		AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1982		A	J			A	J				
TATUOCA	DHZ	1933						A C	SOND				
TTB	DHZ	1934						A C	J				
(091.20 311.48)													
	DHZ	1957	K	AB	ASOND			ABC	ASOND				
	DHZ	1958	K	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	A	JFMAMJ JASOND								
	DHZ	1964		ABC	JFMAMJ JASOND			A	SOND	A	SOND	A	SOND
	DHZ	1965		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966		A	JFMAMJ JASOND								
	DHZ	1967		A	JFMAMJ JASOND								
	DHZ	1968		ABC	JFMAMJ JASOND								

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS		WDC	RAPID RUN MAGNETOGRAMS		WDC	HOURLY VALUES ANY MEDIUM		WDC	HOURLY VALUES ON TAPE		WDC	2.5-MINUTE 1.0-MINUTE (*)		
TATUOCA	DHZ	1969		ABC	JFMAMJ	JASOND													
TTB	DHZ	1970		ABC	JFMAMJ	JASOND													
(091.20 311.48)	DHZ	1971		A	JFMAMJ	JASOND													
	DHZ	1972		A	JFMAMJ	JASOND													
	DHZ	1973		AB	JFMAMJ	JASOND													
	DHZ	1974		ABC	JFMAMJ	JASOND													
	DHZ	1975		A	JFMAMJ	JASOND													
	DHZ	1976		A	JFMAMJ	JASOND													
TBILISI	DHZ	1940	K																
TFS	DHZ	1941	K																
(047.92 044.70)	DHZ	1942	K																
	DHZ	1943	K																
	DHZ	1944	K																
	DHZ	1945	K																
	DHZ	1946	K																
	DHZ	1955	K																
	DHZ	1956	K																
	DHZ	1957	K	ABC		JASOND	AB		JASOND	ABC		JASOND							
	DHZ	1958	K	ABC	JFMAMJ	JASOND	ABC	MAMJ	JASOND	ABC	JFMAMJ	JASOND							
	DHZ	1959	K	ABC	JFMAMJ	JASOND	ABC	JFMAMJ	JASOND	ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND				
	DHZ	1960	K	ABC	JFMAMJ	JASOND	ABC	JFMAM		ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND				
	DHZ	1961	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND				
	DHZ	1962	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND				
	DHZ	1963	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND				
	DHZ	1964	K	ABC	JFMAMJ	JASOND	ABC	JFMAMJ	JASOND	ABC	JFMAMJ	JASOND	AB	JFMAMJ	JASOND				
	DHZ	1965	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	AB	JFMAMJ	JASOND				
	DHZ	1966	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND				
	DHZ	1967	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	AB	JFMAMJ	JASOND	A		SO D	
	DHZ	1968	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	AB	JFMAMJ	JASOND	A	JF AMJ		
	DHZ	1969	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND				
	DHZ	1970	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	B	JFMAMJ	JASOND				
	DHZ	1971	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND							
	DHZ	1972	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND							
	DHZ	1973	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND							
	DHZ	1974	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND							
	DHZ	1975	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND							
	DHZ	1976	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND							
	DHZ	1977	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND							
	DHZ	1978	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND							
	DHZ	1979	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND							
	DHZ	1980	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND							
	DHZ	1981		A	JFMAMJ	JASON				A	JFMAMJ	JASON							
	DHZ	1982		A	J M					A	J M								
TEHRAN	DHZ	1957	K	A C		SO													
TEH	DHZ	1958	K	ABC	FMAMJ	JASON													
(054.27 051.38)	DHZ	1959	K	ABC	MAM	ASON													
	DHZ	1960	K	B	FM														

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS		WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM		WDC	HOURLY VALUES ON TAPE		WDC	2.5-MINUTE 1.0-MINUTE (*)	
TEHRAN	DHZ	1961	K														
TEH	DHZ	1962	K														
(054.27 051.38)	DHZ	1963	K						C	JFMAMJ	JASOND						
	DHZ	1964	K						C	JFMAMJ	JASOND						
	DHZ	1965	K	ABC	JFMAMJ	JASOND			AB	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1966	K	A	JFMAM				AB	JFMAMJ	JASOND	A	M		A	M	
	DHZ	1967	K	A		A			ABC	JFMAMJ	JASOND	A		A	A		A
	DHZ	1968	K						ABC	JFMAMJ	JASOND						
	DHZ	1969	K						ABC	JFMAMJ	JASOND						
	DHZ	1970							ABC	JFMAMJ	JASOND						
	DHZ	1971							ABC	JFMAMJ	JASOND						
	DHZ	1972							ABC	JFMAMJ	JASOND						
	DHZ	1973							ABC	JFMAMJ	JASOND						
TEOLOYUCAN	DHZ	1951	K														
TEO	DHZ	1952	K														
(070.25 260.82)	DHZ	1953	K														
	DHZ	1954	K														
	DHZ	1955	K														
	DHZ	1956	K														
	DHZ	1957	K	ABC	JFMAMJ	JASOND			BC		JASOND						
	DHZ	1958	K	ABC	JFMAMJ	JASOND			B	JFMAMJ	JASOND						
	DHZ	1959	K	A	JFMAMJ	JASOND											
	DHZ	1960	K	A	JFMAMJ	JASOND											
	DHZ	1961	K	A	JFMAMJ	JASOND			C	JFMAMJ	JASOND						
	DHZ	1962	K	A	JFMAMJ	JASOND			C	JFMAMJ	JASOND						
	DHZ	1963	K	A	JFMAMJ	JASOND			C	JFMAMJ	JASOND						
	DHZ	1964	K	ABC	JFMAMJ	JASOND			C	JFMAMJ	JASOND						
	DHZ	1965	K	ABC	JFMAMJ	JASOND			A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1966	K	A	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	DHZ	1967	K	A	JFMAMJ	JASOND			A	JFMAMJ	JASOND						
	DHZ	1968	K	A	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	DHZ	1969	K	A	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	DHZ	1970	K	A	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	DHZ	1971	K	A	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	DHZ	1972	K	A	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	DHZ	1973	K	A	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	DHZ	1974	K	A	JFMAMJ	JASOND			ABC	JFMAMJ	JASOND						
	DHZ	1975	K	A	JFMAMJ	JASO			A	JFMAMJ	JASOND						
TEVRIZ	DHZ	1974		BC	JFMA J	JA OND											
TEV	DHZ	1975		BC	JFMAMJ	JASOND											
(032.50 072.40)	DHZ	1976		BC	JFMAMJ	JASOND											
	DHZ	1977		B	JFMAMJ	JASOND											
	DHZ	1978		BC	JFMAMJ	JASOND											
	DHZ	1979		BC	JFMAMJ	JASOND											
THOMPSON	DHZ	1973		A		JAS ND											
TMP	DHZ	1974		ABC	JFMAMJ	JASOND											
(034.28 262.12)	DHZ	1975		ABC	JFMAMJ	JASOND											

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
THOMPSON	DHZ	1976		ABC	JFMAMJ JASOND								
TMP													
(034.28 262.12)	DHZ	1978										A	JFMAMJ *
THULE	DHZ	1932						A	ASOND				
THL	DHZ	1933						A	JFMAMJ J				
(012.52 290.83)													
	DHZ	1955	K										
	DHZ	1956	K										
	DHZ	1957	K	ABC	JASOND	ABC	JASOND	ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	M
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMA D
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1971		ABC	JFMAMJ JASOND	B	ND	A C	JFMAMJ JASOND				
	DHZ	1972		ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1973		ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1974		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1975		ABC	JFMAMJ JASOND								
	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977		ABC	JFMAMJ JASOND								
	DHZ	1978		ABC	JFMAMJ JASOND								
	DHZ	1979		ABC	JFMAMJ JASOND								
	DHZ	1980		ABC	JFMAMJ JASOND								
	DHZ	1981		A C	JFMAMJ JASOND								
	DHZ	1982		A	JF								
THULE AFB	XYZ	1957	K										
THU	XYZ	1958	K										
(013.45 291.17)	XYZ	1959	K										
	XYZ	1960	K										
	XYZ	1961	K										
	XYZ	1962	K										
	XYZ	1963	K										
	XYZ	1964	K										
	XYZ	1965	K										
	XYZ	1966	K	A C	JFMAMJ JASOND	B	ASOND						
	XYZ	1967	K	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	XYZ	1968	K	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	XYZ	1969	K	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
	XYZ	1970	K	A C	JFMAMJ JASOND	B	JFMAMJ JASOND						

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
THULE AFB	XYZ	1971		A C	JFMAMJ JASOND	B	J J JASOND						
THU	XYZ	1972		A C	JFMAMJ JASOND	B	JFMAMJ JASOND						
(013.45 291.17)	XYZ	1973		A	JFM								
TIHANY	DHZ	1955	K					A	JFMAMJ JASOND				
THY	DHZ	1956	K					A	JFMAMJ JASOND				
(043.10 017.90)	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K					ABC	JFMAMJ JASOND				
	DHZ	1962	K					ABC	JFMAMJ JASOND				
	DHZ	1963	K					ABC	JFMAMJ JASOND				
	DHZ	1964	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	B	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1966	K					ABC	JFMAMJ JASOND				
	DHZ	1967	K					ABC	JFMAMJ JASOND				
	DHZ	1968	K					ABC	JFMAMJ JASOND				
	DHZ	1969	K					ABC	JFMAMJ JASOND				
	DHZ	1970	K					ABC	JFMAMJ JASOND				
	DHZ	1971	K					ABC	JFMAMJ JASOND				
	DHZ	1972	K					ABC	JFMAMJ JASOND				
	DHZ	1973	K					ABC	JFMAMJ JASOND				
	DHZ	1974	K					ABC	JFMAMJ JASOND				
	DHZ	1975	K					ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND								
	DHZ	1980	K	ABC	JFMAMJ JASOND								
	DHZ	1981	K	A C	JFMAMJ JASOND								
	DHZ	1982		A	JFMAMJ J								
TIKHAYA BAY	DHZ	1955	K										
TKH	DHZ	1956	K										
(009.70 052.80)	DHZ	1957	K	A	JASOND			A	JASOND				
	DHZ	1958	K	A	JFMAMJ JA			A	JFMAMJ JA				
TIXIE BAY	DHZ	1955	K										
TIK	DHZ	1956	K										
(018.42 129.00)	DHZ	1957	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
TIXIE BAY	DHZ	1967	K	ABC	JFMAMJ JASO			ABC	JFMAMJ JASO	A	JFMAMJ JASO	A	JFMAMJ JASO
TIK	DHZ	1968	K	ABC	FMAMJ JASOND			A	M MJ JASOND	A	M MJ JASOND	A	M MJ JASOND
(018.42 129.00)	DHZ	1969	K	ABC	JFMAMJ JA D			A	JFMAMJ JA D	A	JFMAMJ JA D	A	JFMAMJ JA D
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1980	K	ABC	JFMAMJ JASOND								
	DHZ	1981	K										
TOKYO	DHZ	1911						A	JFMAMJ JASOND				
TOK	DHZ	1912						A	JFMAMJ JASOND				
(054.25 139.72)													
TOLEDO	DHZ	1948	K										
TOL	DHZ	1949	K										
(050.12 355.95)	DHZ	1950	K					A	JFMAMJ JASOND				
	DHZ	1951	K					A	JFMAMJ JASOND				
	DHZ	1952	K					A	JFMAMJ JASOND				
	DHZ	1953	K					A	JFMAMJ JASOND				
	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K					A	JFMAMJ JASOND				
	DHZ	1956	K					A	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K					ABC	JFMAMJ JASOND				
	DHZ	1961	K					ABC	JFMAMJ JASOND				
	DHZ	1962	K					ABC	JFMAMJ JASOND				
	DHZ	1963	K					ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND	A	JASOND	ABC	JFMAMJ JASOND	A	ND	A	ND
	DHZ	1967	K	ABC	JFMAMJ JASOND	A	JAS	ABC	JFMAMJ JASOND	A	AM SO D	A	AM SO D
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JF AMJ	A	JF AMJ
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JASO	A	JASO
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS		WDC	RAPID RUN MAGNETOGRAMS		WDC	HOURLY VALUES ANY MEDIUM		WDC	HOURLY VALUES ON TAPE		WDC	2.5-MINUTE 1.0-MINUTE (*)	
TOLEDO	DHZ	1979	K	ABC	JFMAMJ	JASOND				A		SOND						
TOL	DHZ	1980	K	A C	JFMAMJ	JASOND				A	JFMAM							
(050.12 355.95)	DHZ	1981	K	A C	JFMA													
TOMSK	DHZ	1958	K	B		JASOND												
TMK	DHZ	1959	K	B	JFMAMJ	JASOND												
(033.53 084.93)	DHZ	1960	K	B	JFMAMJ	JASOND												
	DHZ	1961	K	B	JFMAMJ	JASOND												
	DHZ	1962	K	B	JFMAMJ	JASOND												
	DHZ	1963	K	B	JFMAMJ	JASOND				B		JASOND						
	DHZ	1964	K	B	JFMAMJ	JASOND				B	JFMAMJ	JASOND						
	DHZ	1965	K	B	JFMAMJ	JASOND				B	JFMAMJ	JASOND						
	DHZ	1966	K	B	JFMAMJ	JASOND				B	JFMAMJ	JASOND						
	DHZ	1967	K	B	JFMAMJ	JASOND				B	JFMAMJ	JASOND						
	DHZ	1968	K	B	JFMAMJ	JASOND				B	JFMAMJ	JASOND						
	DHZ	1969	K	B	JFMAMJ	JASOND				B	JFMAMJ	JASOND						
	DHZ	1970	K															
TOOLANGI	DHZ	1924								A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
TOO	DHZ	1925								A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
(127.53 145.47)	DHZ	1926								A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1927								A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1928								A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1929								A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1930								A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1931								A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1932								A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1933								A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1941	K															
	DHZ	1942	K															
	DHZ	1943	K															
	DHZ	1944	K															
	DHZ	1945	K															
	DHZ	1946	K															
	DHZ	1947	K															
	DHZ	1948	K															
	DHZ	1949	K							A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1950	K							A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1951	K							A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1952	K							A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1953	K							A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1954	K							A	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1955	K							A C	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1956	K							A C	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1957	K	ABC		JASOND				ABC	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1958	K	ABC	JFMAMJ	JASOND				ABC	JFMAMJ	JASOND	A	JFMAMJ	JASOND			
	DHZ	1959	K	ABC	JFMAMJ	JASOND				A	JFMAMJ	JASOND						
	DHZ	1960	K	ABC	JFMAMJ	JASOND				A	JFMAMJ	JASOND						
	DHZ	1961	K	ABC	JFMAMJ	JASOND				A C	JFMAMJ	JASOND	A		ASOND	A		ASOND

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
TOOLANGI	DHZ	1962	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
TOO	DHZ	1963	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
(127.53 145.47)	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAM ASO D	A	JFMAM ASO D
	DHZ	1968	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ	A	JFMAMJ
	DHZ	1969	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JASO	A	JASO
	DHZ	1970	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFM	A	JFM
	DHZ	1971	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND								
	DHZ	1974	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND								
	DHZ	1976	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1978	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1979	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1980	K	A	JFMAMJ JASOND								
	DHZ	1981	K	A	JFMA								
TRELEW	DHZ	1957	K	ABC	SOND			ABC	JASOND				
TRW	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(133.25 294.68)	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND								
	DHZ	1963	K	ABC	JFMAMJ JASOND								
	DHZ	1964	K	ABC	JFMAMJ JASOND			A	J SOND	A	J SOND	A	J SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1966	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1967	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFM	A	JFM
	DHZ	1969	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND								
	DHZ	1971	K	A	JFMAMJ JASOND								
	DHZ	1972	K	A	JFMAMJ JASOND								
	DHZ	1973	K	A	JFMAMJ JASOND								
	DHZ	1974		A	JFMAMJ JASOND								
	DHZ	1975		A	JFMAMJ JASO								
	DHZ	1976	K	ABC	JFMAMJ JASOND			C	JFMAMJ JASOND				
	DHZ	1977	K	A	JFMAMJ JASOND								
	DHZ	1978	K	A C	JFMAMJ JASOND								
	DHZ	1979	K	A C	JFMAMJ JASOND								
	DHZ	1980	K	A	JFMAMJ JASOND								
	DHZ	1981	K	A	J								
TRIVANDRUM	DHZ	1957	K	ABC	JASOND			ABC	OND				
TRD	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(081.52 076.95)	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
TRIVANDRUM	DHZ	1960	K					A	JFMAMJ JASOND				
TRD	DHZ	1961	K					ABC	JFMAMJ JASOND				
(081.52 076.95)	DHZ	1962	K					A C	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1967	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	A C	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975		AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1979		A	JFMAMJ JASOND								
TROMSO	DHZ	1930						A	JFMAMJ JASOND				
TRO	DHZ	1931						A	JFMAMJ JASOND				
(020.33 018.95)	DHZ	1932						A	JFMAMJ JASOND				
	DHZ	1933						A	JFMAMJ JASOND				
	DHZ	1934						A	JFMAMJ JASOND				
	DHZ	1935						A	JFMAMJ JASOND				
	DHZ	1936						A	JFMAMJ JASOND				
	DHZ	1937						A	JFMAMJ JASOND				
	DHZ	1938						A	JFMAMJ JASOND				
	DHZ	1939						A	JFMAMJ JASOND				
	DHZ	1940						A	JFMAMJ JASOND				
	DHZ	1941						A	JFMAMJ JASOND				
	DHZ	1942						A	JFMAMJ JASOND				
	DHZ	1943						A	JFMAMJ JASOND				
	DHZ	1944						A	JFMAMJ JASOND				
	DHZ	1945						A	JFMAMJ JASOND				
	DHZ	1946						A	JFMAMJ JASOND				
	DHZ	1947	K					A	JFMAMJ JASOND				
	DHZ	1948	K					A	JFMAMJ JASOND				
	DHZ	1949	K					A	JFMAMJ JASOND				
	DHZ	1950	K					A	JFMAMJ JASOND				
	DHZ	1951	K					A	JFMAMJ JASOND				
	DHZ	1952	K					A	JFMAMJ JASOND				
	DHZ	1953	K					A	JFMAMJ JASOND				
	DHZ	1954	K					A	JFMAMJ JASOND				
	DHZ	1955	K					A	JFMAMJ JASOND				
	DHZ	1956	K					A C	JFMAMJ JASOND				
	DHZ	1957	K					ABC	JFMAMJ JASOND				
	DHZ	1958	K					ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
TROMSO	DHZ	1959	K					A C	JFMAMJ JASOND				
TRO	DHZ	1960	K					A C	JFMAMJ JASOND				
(020.33 018.95)	DHZ	1961	K					A C	JFMAMJ JASOND				
	DHZ	1962	K					A C	JFMAMJ JASOND				
	DHZ	1963	K					A C	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND								
	DHZ	1967	K	ABC	JFMAMJ JASOND								
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMA	A	JFMA
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1979		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1980		ABC	JFMAMJ JASOND								
	DHZ	1981		A C	JFMAMJ JASOND								
TSUMEB	DHZ	1964		BC	ASOND			ABC	ASOND	A	ASOND		
TSU	DHZ	1965		BC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(109.22 017.70)	DHZ	1966						ABC	JFMAMJ JASOND				
	DHZ	1967						ABC	JFMAMJ JASOND				
	DHZ	1968						ABC	JFMAMJ JASOND				
	DHZ	1969						ABC	JFMAMJ JASOND				
	DHZ	1970						ABC	JFMAMJ JASOND				
	DHZ	1971						ABC	JFMAMJ JASOND				
	DHZ	1972						ABC	JFMAMJ JASOND				
	DHZ	1973						ABC	JFMAMJ JASOND				
	DHZ	1974		BC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975		BC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976						ABC	JFMAMJ JASOND				
	DHZ	1977						ABC	JFMAMJ JASOND				
	DHZ	1978						ABC	JFMAMJ JASOND				
	DHZ	1979						A C	JFMAMJ JASOND				
	DHZ	1980						A	JFMAMJ JASOND				
	DHZ	1981						A	JFMAMJ JASOND				
TUCSON	DHZ	1909		A	ND			A	ND	A	ND		
TUC	DHZ	1910		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(057.75 249.17)	DHZ	1911		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1912		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1913		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1914		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1915		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
TUCSON	DHZ	1916		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
TUC	DHZ	1917		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
(057.75 249.17)	DHZ	1918		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1919		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1920		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1921		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1922		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1923		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1924		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1925		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1926		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1927		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1928		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1929		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1930		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1931		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1932		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1933		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1934		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1935		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1936		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1937		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1938	K	A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1939	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1940	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1941	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1942	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1943	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1944	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1945	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1946	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1947	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1948	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1949	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1950	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1951	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1952	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1953	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1954	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1955	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1956	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1957	K	ABC	JFMAMJ JASOND	ABC	JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	ASOND
	DHZ	1962	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
TUCSON	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
TUC	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
(057.75 249.17)	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JF
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1974	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1975	K	ABC	JFMAMJ JASOND	BC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND	B	JF J J	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND	B	J J	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J S ND*
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	MAMJ JASOND*
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	DHZ	1981	K	A C	JFMAMJ JASOND			A C	JFMAMJ JASOND			A	JFMAMJ JASOND*
	DHZ	1982										A	JFMAM *
TULSA	DHZ	1961		ABC	JASOND								
TUL	DHZ	1962		ABC	JFMAMJ JASOND								
(054.10 264.22)	DHZ	1963		ABC	JFMAMJ JASOND								
	DHZ	1964		ABC	JFMAMJ JASOND								
	DHZ	1965		ABC	JFMAMJ JASOND								
	DHZ	1966		ABC	JFMAMJ JASOND								
	DHZ	1967		ABC	JFMAMJ JASOND								
	DHZ	1968		ABC	JFMAMJ JASOND								
	DHZ	1969		ABC	JFMAMJ JASOND								
	DHZ	1970		ABC	JFMAMJ JASOND								
	DHZ	1971		ABC	JFMAMJ JASOND								
	DHZ	1972		ABC	JFMAMJ JASOND								
	DHZ	1973		ABC	JFMAMJ JASOND								
	DHZ	1974		ABC	JFMAMJ JASOND								
	DHZ	1975		ABC	JFMAMJ JASOND								
	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977		ABC	JFMAMJ JASOND								
	DHZ	1978		ABC	JFMAMJ JASOND								
	DHZ	1979		ABC	JFMAMJ JASOND								
	DHZ	1980		A C	JFMAMJ JASOND								
	DHZ	1981		A	JFMAMJ JASOND								
UGUT	DHZ	1974		B	MAMJ JASOND								
UGT	DHZ	1975		B	JFMAMJ JASOND								
(029.00 074.00)	DHZ	1976		BC	JFMAMJ JASOND								
	DHZ	1977		B	JFMAMJ JASOND								
	DHZ	1978		BC	JFMAMJ JASOND								
	DHZ	1979		BC	JFMAMJ JASOND								
UJJAIN	DHZ	1975		B	JASOND			B	JASOND				
UJJ	DHZ	1976		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
(066.98 075.78)	DHZ	1977		B	JFM			B	JFM				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
UJJAIN	DHZ	1978		B	JFMAMJ JASOND			B	JFMAMJ JASOND				
UJJ													
(066.98 075.78)													
UKHTA	DHZ	1974		C	MA OND								
UKH													
(029.50 074.00)													
ULAN BATOR	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
UBA	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(042.15 106.75)	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K										
	DHZ	1972	K										
	DHZ	1973	K										
	DHZ	1974	K										
	DHZ	1975						A	JFMAMJ JASOND				
	DHZ	1976						BC	JFMAMJ JASOND				
	DHZ	1977						ABC	JFMAMJ JASOND				
	DHZ	1978	K					B	JFMAMJ JASOND				
	DHZ	1979	K										
	DHZ	1980	K										
VAL JOYEUX	DHZ	1923						A	JFMAMJ JAOSND				
VLJ	DHZ	1924						A	JFMAMJ JASOND				
(041.18 002.02)	DHZ	1925						A	JFMAMJ JASOND				
	DHZ	1926						A	JFMAMJ JASOND				
	DHZ	1927						A	JFMAMJ JASOND				
	DHZ	1928						A	JFMAMJ JASOND				
	DHZ	1929						A	JFMAMJ JASOND				
	DHZ	1930						A	JFMAMJ JASOND				
	DHZ	1931						A	JFMAMJ JASOND				
	DHZ	1932						A C	JFMAMJ JASOND				
	DHZ	1933						A C	JFMAMJ JASOND				
	DHZ	1934						A	JFMAMJ JASOND				
	DHZ	1935						A	JFMAMJ JASOND				
	DHZ	1936						A	JFMAMJ JASOND				
VALENTIA	DHZ	1954	K					A	JFMAMJ JASOND				
VAL	DHZ	1955	K					A	JFMAMJ JASOND				
(038.07 349.75)	DHZ	1956	K					A	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
VALENTIA	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
VAL	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(038.07 349.75)	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	A C	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND								
	DHZ	1980	K	A	JFMAMJ JASOND								
	DHZ	1981		A	JFMAMJ								
VASSOURAS	DHZ	1915						C	JFMAMJ JASOND				
VSS	DHZ	1916						C	JFMAMJ JASOND				
(112.40 316.35)	DHZ	1917						C	JFMAMJ JASOND				
	DHZ	1918						C	JFMAMJ JASOND				
	DHZ	1919						C	JFMAMJ JASOND				
	DHZ	1920						C	JFMAMJ JASOND				
	DHZ	1921						C	JFMAMJ JASOND				
	DHZ	1922						C	JFMAMJ JASOND				
	DHZ	1923						C	JFMAMJ JASOND				
	DHZ	1924						A	JFMAMJ JASOND				
	DHZ	1925						A	JFMAMJ JASOND				
	DHZ	1926						A	JFMAMJ JASOND				
	DHZ	1927						A	JFMAMJ JASOND				
	DHZ	1928						A	JFMAMJ JASOND				
	DHZ	1929						A	JFMAMJ JASOND				
	DHZ	1930						A	JFMAMJ JASOND				
	DHZ	1931						A	JFMAMJ JASOND				
	DHZ	1932						A	JFMAMJ JASOND				
	DHZ	1933						A	JFMAMJ JASOND				
	DHZ	1934						A	JFMAMJ JASOND				
	DHZ	1935						A	JFMAMJ JASOND				
	DHZ	1936						A	JFMAMJ JASOND				
	DHZ	1937						A	JFMAMJ JASOND				
	DHZ	1938						A	JFMAMJ JASOND				
	DHZ	1939						A	JFMAMJ JASOND				
	DHZ	1940						A	JFMAMJ JASOND				
	DHZ	1941						A	JFMAMJ JASOND				
	DHZ	1942						A	JFMAMJ JASOND				
	DHZ	1943						A	JFMAMJ JASOND				
	DHZ	1949						A C	JFMAMJ JASOND				
	DHZ	1950						A C	JFMAMJ JASOND				
	DHZ	1951						A C	JFMAMJ JASOND				
	DHZ	1952	K					A C	JFMAMJ JASOND				
	DHZ	1953	K					A C	JFMAMJ JASOND				
	DHZ	1954	K										

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
VASSOURAS	DHZ	1955	K										
VSS	DHZ	1956	K										
(112.40 316.35)	DHZ	1957	K	ABC	JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	SOND	A	SOND
	DHZ	1960	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	A	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	A	JFMAMJ JASOND								
	DHZ	1964	K	ABC	JFMAMJ JASOND								
	DHZ	1965		A	JFMAMJ JASOND								
	DHZ	1966		A	JFMAMJ JASOND								
	DHZ	1967		A	JFMAMJ JASOND								
	DHZ	1968		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1969		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1970		AB	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1971		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1972		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1973		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1974		A	JFMAMJ JASOND								
	DHZ	1975		A	JFMAMJ JASOND								
	DHZ	1976		ABC	JFMAMJ JASOND								
	DHZ	1977		ABC	JFMAMJ JASOND								
	DHZ	1978		A C	JFMAMJ JASOND								
	DHZ	1979		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	DHZ	1980		A	JFMAMJ JASOND			A	JASOND				
	DHZ	1981						A	JFMAMJ J				
VICTORIA	XYZ	1956	K										
VIC	XYZ	1957	K	ABC	JASOND			ABC	JASOND				
(041.48 236.58)	XYZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1959	K					ABC	JFMAMJ JASOND				
	XYZ	1960	K					AB	JFMAMJ JASOND				
	XYZ	1961	K					ABC	JFMAMJ JASOND				
	XYZ	1962	K					ABC	JFMAMJ JASOND				
	XYZ	1963	K	ABC	SOND			ABC	JFMAMJ JASOND				
	XYZ	1964	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1965	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND
	XYZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFM	A	JFM
	XYZ	1967	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	XYZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	XYZ	1969	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	XYZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	ND	A	ND*
	XYZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1972	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1974	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1975	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1976	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1977	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
VICTORIA	XYZ	1978	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
VIC	XYZ	1979	K	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
(041.48 236.58)	XYZ	1980	K	A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1981	K	A C	JFMAMJ JASOND								
VIEQUES	DHZ	1903		A	AMJ JASOND			A C	AMJ JASOND	A	AMJ JASOND		
VQS	DHZ	1904		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
(071.85 294.55)	DHZ	1905		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1906		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1907		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1908		A	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1909		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1910		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1911		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1912		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1913		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1914		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1915		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1916		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1917		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1918		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1919		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1920		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1921		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1922		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1923		A	JFMAMJ JASOND			A C	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1924		A	JFMAMJ JASO			A C	JFMAMJ JASOND	A	JFMAMJ JASO		
VLADIVOSTOK	DHZ	1952	K										
VLA	DHZ	1953	K										
(046.32 132.17)	DHZ	1954	K										
	DHZ	1955	K										
	DHZ	1956	K										
	DHZ	1957	K	ABC	JASOND			ABC	JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1965	K	ABC	J AMJ JASOND			ABC	J AMJ JASOND	AB	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
VLADIVOSTOK	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
VLA	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(046.32 132.17)	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1980	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1981		AB	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1982		A	JF								
VOSTOK	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
VOS	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
(168.45 106.87)	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1962	K										
	DHZ	1963	K	ABC	MJ JASOND			ABC	MJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	O
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	M
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			A C	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1976	K	ABC	JFMAMJ JASOND			B	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	B	JFMAMJ JASOND		
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND				
	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
WAKE ISLAND	DHZ	1978										A	MAMJ JASOND*
WKE	DHZ	1979										A	JFMAMJ JASOND*
(070.80 166.70)	DHZ	1980										A	JFMAMJ JASOND*
	DHZ	1981										A	JFMAMJ JASOND*
	DHZ	1982										A	JFMAM *
WATHEROO	DHZ	1919						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
WAT	DHZ	1920						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(120.30 115.90)	DHZ	1921						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1922						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1923						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1924						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1925						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1926						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1927						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1928						A	JFMAMJ JASOND	A	JFMAMJ JASOND		

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
WATHEROO	DHZ	1929						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
WAT	DHZ	1930						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
(120.30 115.90)	DHZ	1931						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1932						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1933						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1934						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1935						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1936						A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1937	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1938	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1939	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1940	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1941	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1942	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1943	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1944	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1945	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1946	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1947	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1948	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1949	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1950	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1951	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1952	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1953	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1954	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1955	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1956	K					A	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1957	K	ABC	JASOND	ABC	JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1959	K										
WESTON	XYZ	1960		A	FMAMJ JASOND			A	JAS				
WES	XYZ	1961		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
(047.62 288.68)	XYZ	1962		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	XYZ	1963		A	JFMAMJ JA D			A	JFMAMJ JASOND				
	XYZ	1964		A	MAMJ JASOND			A	JFMAMJ JASOND				
	XYZ	1965		A C	JFMAMJ JASOND	B	MAMJ JASOND	A	JFMAMJ JASOND				
	XYZ	1966		A C	JFMAMJ JASOND	B	JFMAMJ JASOND	A	JFMAMJ JASOND				
	XYZ	1967		A C	JFMAMJ JASOND	B	JFMAMJ JASOND	A	JFMAMJ JASOND				
	XYZ	1968		A C	JFMAMJ JASOND	B	JFMAMJ J	A	JFMAMJ JASOND				
	XYZ	1969		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	XYZ	1970		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	XYZ	1971		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	XYZ	1972		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	XYZ	1973		A	JFMAMJ JASOND			A	JFMAMJ JASOND				
	XYZ	1974		A	JFMAMJ JASOND			A	JFMAMJ				
	XYZ	1975		A	JFMAMJ JASOND								
	XYZ	1976		A	JFMAM								

OBSERVATORY	YEAR K COMP	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
WHITESHELL	XYZ 1972	A	JFMAMJ JASOND								
WHS	XYZ 1973	A	JFMAMJ JASOND								
(040.25 264.75)	XYZ 1974	A	JFMAMJ JASOND								
	XYZ 1975	A	JFMAMJ JASOND								
	XYZ 1976	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1977	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1978	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1979	ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1980	A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ 1981	A	JFMAMJ JAS			A	JFMA				
WIEN-KOBENZL	DHZ 1956					A	JFMAMJ JASOND				
WIK	DHZ 1957 K	AB	JASOND			ABC	JFMAMJ JASOND				
(041.73 016.32)	DHZ 1958 K	AB	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ 1959					ABC	JFMAMJ JASOND				
	DHZ 1960					ABC	JFMAMJ JASOND				
	DHZ 1961					ABC	JFMAMJ JASOND				
	DHZ 1962					ABC	JFMAMJ JASOND				
	DHZ 1963					ABC	JFMAMJ JASOND				
	DHZ 1964	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1965	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1966					ABC	JFMAMJ JASOND				
	DHZ 1967					ABC	JFMAMJ JASOND				
	DHZ 1968					ABC	JFMAMJ JASOND				
	DHZ 1969					ABC	JFMAMJ JASOND				
	DHZ 1970					ABC	JFMAMJ JASOND				
	DHZ 1971					ABC	JFMAMJ JASOND				
	DHZ 1972					ABC	JFMAMJ JASOND				
	DHZ 1973					ABC	JFMAMJ JASOND				
	DHZ 1974					ABC	JFMAMJ JASOND				
	DHZ 1975					ABC	JFMAMJ JASOND				
	DHZ 1976					ABC	JFMAMJ JASOND				
	DHZ 1977					ABC	JFMAMJ JASOND				
	DHZ 1978					A	JFMAMJ JASOND				
	DHZ 1979					A	JFMAMJ JASOND				
WILHELMSHAVEN	DHZ 1882					C	D				
WLH	DHZ 1883					C	JFMAMJ JASOND				
(036.48 008.15)											
WILKES	DHZ 1957 K	ABC	JFMAMJ JASOND	ABC	JASOND	ABC	JASOND	A	JASOND		
WIL	DHZ 1958 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
(156.25 110.58)	DHZ 1959 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND						
	DHZ 1960 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND						
	DHZ 1961 K	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND	A	ASOND	A	ASOND		
	DHZ 1962 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND						
	DHZ 1963 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND						
	DHZ 1964 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	SOND	A	SOND		
	DHZ 1965 K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ 1966 K	ABC	JFMAMJ JASOND	AB	JFMAMJ JASOND	A	J	A	J		
	DHZ 1967 K	ABC	J								

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
WINGST	DHZ	1940	K										
WNG	DHZ	1941	K										
(036.25 009.07)	DHZ	1942	K										
	DHZ	1943	K					C	JFMAMJ JASOND				
	DHZ	1944	K										
	DHZ	1945	K										
	DHZ	1946	K										
	DHZ	1947	K										
	DHZ	1948	K					C	JFMAMJ JASOND				
	DHZ	1949	K					A C	JFMAMJ JASOND				
	DHZ	1950	K					A C	JFMAMJ JASOND				
	DHZ	1951	K					C	JFMAMJ JASOND				
	DHZ	1952	K					C	JFMAMJ JASOND				
	DHZ	1953	K					C	JFMAMJ JASOND				
	DHZ	1954	K					C	JFMAMJ JASOND				
	DHZ	1955	K					A C	JFMAMJ JASOND				
	DHZ	1956	K					A C	JFMAMJ JASOND				
	DHZ	1957	K	BC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1958	K	BC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1959	K	BC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960	K	BC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	BC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	BC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	BC	JFMAMJ JASOND	B	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND	A C	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1976	K	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JAS	ABC	JFMAMJ JASOND				
	DHZ	1978	K	AB	JFMAMJ JASOND	AB	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	AB	JFMAMJ JASOND				
	DHZ	1980	K	C	JFMAMJ JAS	C	JFMAMJ JAS	B	JFM JAS				
	DHZ	1981	K	A	JFMAMJ JAS	A	JFMAMJ JAS						
WINNIPEG	DHZ	1974		BC	JFMAMJ JASOND								
WNP	DHZ	1975		BC	JFMAMJ JAS								
(040.37 262.87)													
WITTEVEEN	DHZ	1939						A	JFMAMJ JASOND				
WIT	DHZ	1940	K					A	JFMAMJ JASOND				
(037.18 006.67)	DHZ	1941	K					A	JFMAMJ JASOND				
	DHZ	1942	K					A	JFMAMJ JASOND				
	DHZ	1943	K					A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
WITTEVEEN	DHZ	1944	K					A	JFMAMJ JASOND				
WIT	DHZ	1945	K					A	JFMA J JASOND				
(037.18 006.67)	DHZ	1946	K					A	JFMAMJ JASOND				
	DHZ	1947	K					A	JFMAMJ JASOND				
	DHZ	1948	K					A	JFMAMJ JASOND				
	DHZ	1949	K					A C	JFMAMJ JASOND				
	DHZ	1950	K					A	JFMAMJ JASOND				
	DHZ	1951	K					A	JFMAMJ JASOND				
	DHZ	1952	K					A	JFMAMJ JASOND				
	DHZ	1953	K					A	JFMAMJ JASOND				
	DHZ	1954	K					A C	JFMAMJ JASOND				
	DHZ	1955	K					A C	JFMAMJ JASOND				
	DHZ	1956	K					A	JFMAMJ JASOND				
	DHZ	1957	K	ABC	JASOND	ABC	JASOND	ABC	JFMAMJ JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1967	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A C	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1979	K	A	JFMAMJ JASOND	A	JFMAMJ JASOND	ABC	JFMAMJ JASOND				
	DHZ	1980	K	A	JFMAMJ JASOND	A	JFMAMJ	A C	JFMAMJ JASOND				
	DHZ	1981	K					A	JFMAMJ J				
YAKUTSK	DHZ	1939	K										
YAK	DHZ	1940	K										
(027.98 129.72)	DHZ	1941	K										
	DHZ	1942	K										
	DHZ	1943	K										
	DHZ	1944	K										
	DHZ	1945	K										
	DHZ	1946	K										
	DHZ	1952											
	DHZ	1953											

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
YAKUTSK	DHZ	1954											
YAK	DHZ	1955	K										
(027.98 129.72)	DHZ	1956	K										
	DHZ	1957	K	ABC	JASOND			ABC	JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND	B	SOND	ABC	JFMAMJ JASOND				
	DHZ	1959	K	ABC	JFMAMJ JASOND	ABC	JFMAMJ	ABC	JFMAMJ JASOND				
	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND	A	J SOND
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JA ND	A	JFMAMJ JA ND
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	AMJ ASOND	A	MJ ASOND
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ	A	JFMAMJ
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JAS	A	JAS
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K										
	DHZ	1980	K										
YAUCA	DHZ	1957		ABC	SOND			ABC	SOND				
YAU	DHZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(105.53 285.33)	DHZ	1959		ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1960		ABC	J			BC	J				
YELLOWKNIFE	XYZ	1957		ABC	JASOND			ABC	JASOND				
YKC	XYZ	1958		ABC	JFMAMJ JASOND			ABC	JFMAMJ JA ND				
(027.57 245.60)													
	XYZ	1974		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	OND	A	OND*
	XYZ	1975		ABC	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1976		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1977		ABC	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1978		A C	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1979		A C	JFMAMJ JASOND			AB	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1980		A C	JFMAMJ JASOND			A	JFMAMJ JASOND	A	JFMAMJ JASOND	A	JFMAMJ JASOND*
	XYZ	1981		A C	JFMAMJ JASOND								
YUZHNO SAKHALINS	DHZ	1954	K										
YSS	DHZ	1955	K										
(043.05 142.72)	DHZ	1956	K										
	DHZ	1957	K	ABC	JASOND			ABC	JASOND				
	DHZ	1958	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
YUZHNO SAKHALINS	DHZ	1959	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
YSS	DHZ	1960	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
(043.05 142.72)	DHZ	1961	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1962	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1963	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1964	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1965	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND	A	JFMAMJ JASOND		
	DHZ	1966	K	ABC	JFMAMJ JAS			ABC	JFMAMJ JAS	A	M	A	M
	DHZ	1967	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1968	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1969	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1970	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1971	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1972	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1973	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1974	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1975	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1976	K	ABC	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	DHZ	1977	K	ABC	JFMAMJ JASOND			BC	JFMAMJ JASOND				
	DHZ	1978	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1979	K	ABC	JFMAMJ JASOND			ABC	JFMAMJ JASOND				
	DHZ	1980	K	A	JFMAMJ JASOND			A	JFMAMJ JASOND				
ZARIA	DHZ	1964		ABC	JFMAMJ JASOND								
ZAR	DHZ	1965		ABC	JFMAMJ JASOND								
(078.85 007.65)	DHZ	1966		A	JFMAMJ JASOND								
	DHZ	1967		A	JFMAMJ JASOND								
	DHZ	1968		A	JFMAMJ JASOND								
	DHZ	1969		A	JFMAMJ JASOND								
	DHZ	1970		A	JFMAMJ JASOND								
	DHZ	1971		A	JFMAMJ JASOND								
	DHZ	1972		A	JFMAMJ JASOND								
	DHZ	1973		A	JFMAMJ JASOND								
	DHZ	1974		A	JFMAMJ JASOND								
	DHZ	1975		A	JFMAMJ JASOND								
	DHZ	1976		A	JFMAMJ JASOND								
	DHZ	1977		A	JFMAMJ JASOND								
ZIKAWEI	DHZ	1889						A	JFMAMJ JASOND				
ZKW	DHZ	1890						A	JFMAMJ JASOND				
(058.78 121.43)	DHZ	1891						A	JFMAMJ JASOND				
	DHZ	1892						A	JFMAMJ JASOND				
	DHZ	1893						A	JFMAMJ JASOND				
	DHZ	1894						A	JFMAMJ JASOND				
	DHZ	1895						A	JFMAMJ JASOND				
	DHZ	1896						A	JFMAMJ JASOND				
	DHZ	1897						A	JFMAMJ JASOND				
	DHZ	1898						A	JFMAMJ JASOND				
	DHZ	1899						A	JFMAMJ JASOND				
	DHZ	1900						A	JFMAMJ JASOND				

OBSERVATORY	COMP	YEAR	K	WDC	NORMAL MAGNETOGRAMS	WDC	RAPID RUN MAGNETOGRAMS	WDC	HOURLY VALUES ANY MEDIUM	WDC	HOURLY VALUES ON TAPE	WDC	2.5-MINUTE 1.0-MINUTE (*)
ZIKAWEI	DHZ	1901						A	JFMAMJ JASOND				
ZKW	DHZ	1902						A	JFMAMJ JASOND				
(058.78 121.43)	DHZ	1903						A	JFMAMJ JASOND				
	DHZ	1904						A	JFMAMJ JASOND				
	DHZ	1905						A	JFMAMJ JASOND				
	DHZ	1906						A	JFMAMJ JASOND				
	DHZ	1907						A	JFMAMJ JASOND				
	DHZ	1908						A	JF ASOND				
	DHZ	1909						A	JFMAMJ JASOND				
	DHZ	1910						A	JFMAMJ JASOND				
	DHZ	1911						A	JFMAMJ JASOND				
	DHZ	1912						A	JFMAMJ JASOND				
	DHZ	1913						A	JFMAMJ JASOND				
	DHZ	1914						A	JFMAMJ JASOND				
	DHZ	1915						A	JFMAMJ JASOND				
	DHZ	1916						A	JFMAMJ JASOND				
	DHZ	1921						A	JFMAMJ JASOND				
	DHZ	1922						A	JFMAMJ JASOND				

VII. CATALOG OF HIGH-RESOLUTION GEOMAGNETIC DIGITAL DATA (TABLE 6)

High-resolution (10-second) geomagnetic digital data were acquired from a network of sites in North and South America, the Caribbean, and Pacific Islands during years of the International Magnetospheric Study (IMS, 1976-1979). After some smoothing and noise removal, 1-minute average values were prepared and are listed in the main catalog given in Section VI. The sometimes noisy 10-sec data from these temporary sites were transmitted via GOES satellite communication platforms to the NOAA/ERL Space Environment Laboratory where it was partially smoothed by removal of noise spikes and then used in their forecasting activity. Copies of the full resolution tapes were deposited with WDC-A for STP at the end of each month. After the end of the observational phase of the IMS, many of the network stations continued operating through the MAGSAT satellite interval and a reduced number have continued transmitting data through 1982.

Station names and their international 3-letter codes are given for each high-resolution station. Also given are the years and months of data acquisition at each site and the symbol of the WDC where the data are available. Coordinate listing for these sites may be found in Tables 1 and 2 of Section III.

Owing to the quantity of data involved and the complex encoding algorithm that combined into each record data from each site onto a single record, only copies of the original binary magnetic tapes can be provided by WDC-A for STP.

TABLE VI

HIGH-RESOLUTION GEOMAGNETIC DIGITAL DATA

OBSERVATORY	CODE	YEAR	WDC	10-SECOND DATA
ARCTIC VILLAGE	AVI	1978	A	MAMJ JASOND
		1979	A	JFMAMJ JASOND
		1980	A	JFMAM A OND
		1981	A	JFMAMJ J
BACK	BKC	1977	A	N
		1978	A	AMJ JASO
		1979	A	FMAMJ JASOND
		1980	A	FMAMJ J
BOULDER	BOU	1978	A	AMJ JASOND
		1979	A	JFMAMJ JASOND
		1980	A	JFMAMJ JASOND
		1981	A	JFMAMJ JASOND
		1982	A	JFMAM
CAPE PARRY	CPY	1977	A	ND
		1978	A	JFMAMJ JASOND
		1979	A	JFMAMJ JASOND
		1980	A	JFMAMJ JASOND
		1981	A	JFMAMJ JA OND
		1982	A	J MAM
COLLEGE	CMO	1977	A	JASON
		1978	A	MAMJ JASOND
		1979	A	JFMAMJ JASOND
		1980	A	JFMAMJ JASOND
		1981	A	JFMAMJ JASOND
		1982	A	JFMAM
ESKIMO POINT	EKP	1977	A	SOND
		1978	A	MAMJ JASOND
		1979	A	JFMAMJ JAS D
		1980	A	JFMA
		1981	A	J J
EUSEBIO	EUS	1977	A	JASOND
		1978	A	MAMJ JASOND
		1979	A	JFMAMJ JASOND
		1980	A	JFMAMJ JASOND
		1981	A	JFMAMJ JASOND
		1982	A	JFMA
FORT SIMPSON	FSP	1977	A	JASOND
		1978	A	J MAMJ JASOND
		1979	A	JFM JA OND
		1980	A	JFMAMJ JASOND
		1981	A	JFMAMJ JASOND
		1982	A	JFMAM
FORT SMITH	FSM	1977	A	D
		1978	A	A J JASOND
		1979	A	JFMAMJ JASOND
		1980	A	J SOND
		1981	A	FMAMJ JASOND
		1982	A	JFMAM
FORT YUKON	FYU	1977	A	S ND
		1978	A	MA ASOND
		1979	A	JFMAMJ JASOND
		1980	A	JFMAMJ JASOND
		1981	A	JFMAMJ JASOND
		1982	A	JFM M
GILLAM	GIM	1977	A	OND
		1978	A	MA J JASOND
		1979	A	JFMAMJ JASOND
		1980	A	JFMAMJ J
HONOLULU	HON	1978	A	MAMJ JASOND
		1979	A	JFMAMJ JASOND
		1980	A	JFMAMJ JASOND
		1981	A	JFMAMJ JASOND
		1982	A	JFMA
INUVIK	INK	1977	A	OND
		1978	A	JFMAMJ JASOND
		1979	A	JFMAMJ JASOND
		1980	A	JFMAMJ JASOND
		1981	A	JFMAMJ JASOND
ISLAND LAKE	ISL	1977	A	JFMAMJ OND
		1978	A	FMAMJ JAS
		1979	A	JFMAMJ JAS D

OBSERVATORY	CODE	YEAR	WDC	10-SECOND DATA	
ISLAND LAKE	ISL	1980	A	JFMAMJ	J
		1981	A	J	JASOND
		1982	A	JFMAM	
JOHNSON POINT	JOP	1977	A	J	ND
		1978	A	MAMJ	JASOND
		1979	A	JFMAMJ	JASOND
		1980	A	M	
		1981	A		JASOND
		1982	A	JFMA	
LYNN LAKE	LYN	1977	A		ASOND
		1978	A	MAMJ	JASOND
		1979	A	JFMAMJ	JASOND
		1980	A	JFMAMJ	JASOND
		1981	A	JFMAMJ	JASOND
		1982	A	JFMAM	
MIDWAY	MDY	1978	A	MAMJ	JASOND
		1979	A	JFMAM	JASOND
		1980	A	JFMAM	J
		1981	A	FMA	
NORMAN WELLS	NOW	1977	A		JASOND
		1978	A	JFMAMJ	JASOND
		1979	A	JFMAMJ	JASOND
		1980	A	JFMAMJ	JASON
		1981	A	JFMAMJ	JASOND
		1982	A	JFMAM	
PAMATAI	PPT	1978	A	MAMJ	JASOND
		1982	A	JFMA	
PELLY BAY	PEB	1977	A		JASOND
		1978	A	JF AMJ	JASOND
		1979	A	JFM	
RANKIN INLET	RIT	1977	A		AS ND
		1978	A	MAMJ	JASOND
		1979	A	JFMAMJ	JASOND
		1980	A		OND
		1981	A	JF AM	

OBSERVATORY	CODE	YEAR	WDC	10-SECOND DATA	
SACHS HARBOUR	SAH	1977	A		SOND
		1978	A	MAMJ	JASOND
		1979	A	JFMAMJ	JASOND
		1980	A	JFMAMJ	JASOND
		1981	A	JFMAMJ	JASOND
		1982	A	JFMAM	
SAN JUAN	SJG	1978	A	M	ND
		1979	A	JFMAMJ	JASOND
		1980	A	F AMJ	SO D
		1981	A	JFMAMJ	JASOND
		1982	A	JFMA	
TALKEETNA	TLK	1977	A		A N
		1978	A	AMJ	JASOND
		1979	A	JFMAMJ	JASOND
		1980	A	JFMAMJ	JASOND
		1981	A	JFMAMJ	JASOND
		1982	A	JFMA	
TUCSON	TUC	1977	A		J S ND
		1978	A	MAMJ	JASOND
		1979	A	JFMAMJ	JASOND
		1980	A	JFMAMJ	JASOND
		1981	A	JFMAMJ	JASOND
		1982	A	JFMAM	
WAKE ISLAND	WKE	1978	A	MAMJ	JASOND
		1979	A	JFMAMJ	JASOND
		1980	A	JFMAMJ	JASOND
		1981	A	JFMAMJ	JASOND
		1982	A	JFMAM	

VIII. Geomagnetic Indices

This sub-section lists the various kinds of geomagnetic indices and the forms in which they are held. These indices include AE, Dst, Q, K, Kn, Ks, Km, Kp, Ap, Cp, Ci, C9 and aa.

1. Auroral Electrojet (AE) Indices (Including Supplementary AU, AL and AO Indices)

Magnetic Tape

Hourly Values	
AE	July 1957 - December 1975
AU and AL	September 1964 - December 1975
AO	January 1966 - December 1975
2.5-Minute Values	
AE, AU and AL	September 1964 - December 1974
AO	January 1966 - December 1974
1.0-Minute Values*	
AE,AU and AL	January 1975 - December 1975
AO	January 1978 - December 1979

Microfilm

Hourly Values (Tabular)	
AE, AU, AL and AO	July 1957 - December 1964
AE, AU, AL and AO	January 1966 - December 1974
AE Plots	July 1957 - December 1964
2.5-Minute Values	
AE, AU and AL Plots	September 1964 - December 1974
AO Plots	January 1966 - December 1974
1.0-Minute Values	
AE, AU, AL and AO Plots	January 1975 - December 1975

*Beginning with January 1975, WDC-A for STP has computed AE indices with 1-minute resolution but stopped routine index derivation after completing 1975. WDC-C2 (Geomagnetism) in Kyoto, Japan, produced 1-minute AE indices for the IMS years 1978 and 1979.

Publications

Hourly Values of the Auroral Electrojet Activity Index AE, UAG-R Series, Geophysical Institute, University of Alaska, July 1957 - December 1964.

The hourly values of AE, AU, AL and AO and the plots derived from the 2.5-minute or 1.0-minute values of the same indices have been published by WDC-A for Solar-Terrestrial Physics in the following issues of its UAG Report series:

Data for	Published in	Data for	Published in
1966	UAG-37 AE(10)	1973	UAG-47 AE(11)
1967	UAG-33 AE(10)	1974	UAG-59 AE(11)
1968	UAG-29 AE(11)	1975(Jan-Jun)	UAG-73 AE(12)
1969	UAG-31 AE(11)	1975(Jul-Dec)	UAG-76 AE(12)
1970	UAG-22 AE(11)		
1971	UAG-39 AE(11)	1978-1979	See Below
1972	UAG-45 AE(11)		

Data for	Published in
1978(Jan-Jun)	WDC-C2 Data Book No. 3
1978(Jul-Dec)	WDC-C2 Data Book No. 4
1979(Jan-Jun)	WDC-C2 Data Book No. 5
1979(Jul-Dec)	WDC-C2 Data Book No. 6

Beginning with January 1966, the AE, AU, AL and AO data published in the UAG Report series have been systematically derived from the original data taken by the number of observatories enclosed in parentheses. For example, AE(10) indicates 10 observatories. The data listed here on magnetic tape were also produced by this systematic analysis program for the period beginning in January 1966.

Provisional AE indices from a reduced 7- or 8-station network were published by WDC-A for STP in Reports UAG-60, 62, 63 and 64 for the first months of the IMS, January - April 1976.

2. Equatorial Dst Indices

Hourly Values 1957-1982

Publications

Hourly values of equatorial Dst for the interval January 1957 - February 1973 (several publications) by M. Sugiura and D.J. Poros, Goddard Space Flight Center, NASA.

Monthly tables beginning with the data for April 1973 are compiled by M. Sugiura and D. J. Poros and distributed by World Data Center A for Rockets and Satellites, National Space Science Data Center.

Beginning with the data for May 1973, the Dst indices are published each month in Solar-Geophysical Data.

Beginning with the data for 1970, the Dst indices are published in the IAGA Bulletins, Series No. 32.

3. Q-indices

CAPE CHELYUSKIN

1964	JFMAMJJASOND
1965	JFMAMJJASOND

CAPE WELLEN

1964	JFMAMJJASOND
1965	JFMAMJJASOND

DIXON ISLAND

1964	JFMAMJJASOND
1965	JFMAMJJASOND

ESKDALEMUIR

1957	JASOND
1958	JFMAMJJASOND

GODHAVN

1957	JASOND
1958	JFMAMJJASOND

HALLEY BAY

1957	JASOND
1958	JFMAMJJASOND

HEISS ISLAND

1964	JFMAMJJASOND
1965	JFMAMJJASOND

LERWICK

1957	JASOND
1958	JFMAMJJASOND

MAWSON

1957	JASOND
1958	JFMAMJJASOND

MIRNY

1964	JFMAMJJASOND

MURCHISON BAY

1957	JASOND
1958	JFMAMJJASOND
1959	JFMAMJJ

NOVOLAZAREVSKAYA

1964	JFMAMJJASOND
1965	JFMAMJJASOND

SODANKYLA

1957	JASOND
1958	JFMAMJJASOND
1959	JFMAMJJASOND
1960	JFMAMJJASOND
1961	JFMAMJJASOND
1962	JFMAMJJASOND
1963	JFMAMJJASOND
1964	JFMAMJJASOND
1965	JFMAMJJASOND
1966	JFMAMJJASOND
1967	JFMAMJJASOND
1968	JFMAMJJASOND
1969	JFMAMJJASOND
1970	JFMAMJJASOND
1971	JFMAMJJASOND
1972	JFMAMJJASOND
1973	JFMAMJJASOND
1974	JFMAMJJASOND
1975	JFMAMJJASOND
1976	JFMAMJJASOND
1977	JFMAMJJASOND
1978	JFMAMJJASOND
1979	JFMAMJJASOND
1980	JFMAMJJASOND
1981	JFMAMJJASOND
1982	JFMAMJJAS

THULE

1957	JASOND
1958	JFMAMJJASOND

TIXIE BAY

1958	MAMJ
1964	JFMAMJJASOND
1965	JFMAMJJASOND

VOSTOK

1964	JFMAMJJASOND
1965	JFMAMJJASOND

4. K-Indices

The observatory-years for which magnetic K-indices are available are shown in the tables of the catalog together with other observatory data. Tables of K-indices are received on a current basis (within 6 months of the recording period) from the following observatories:

Alma Ata	Hermanus	Misallat	Swider
Almeria	Honolulu	Moca	Syowa Base
Amberly	Huancayo	Moscow	Tahiti
Ashkhabad	Hurbanovo	Murmansk	Tamanrasset
Averroes	Irkutsk	Newport	Tananarive
Bangui	Karaganda	Niemegk	Tangerang
Barrow	Kazan	Novo-Kazalinsk	Tashkent
Belsk	Kiev	Novolazarevskaya	Tbilisi
Binza	Ksara	Nurmijarvi	Tenerife
Cape Chelyuskin	Las Acacias	Odessa	Teoloyucan
Cape Wellen	L'Aquila	Pendeli	Toledo
Coimbra	Leirvogur	Port Moresby	Tomsk
College	Leningrad	San Fernando	Toolangi
Dixon Island	Logrono	San Juan	Trelew
Dumont d'Urville	Luanda	San Miguel	Tuscon
Fredericksburg	Lvov	Scott Base	Ulan Bator
Gnangara	Macquarie Island	Sitka	Vladivostok
Guam	Magadan	Sondankyla	Vostok
Hartland	Mawson	South Pole	Wingst
Heiss Island	Minsk	Surlari	Witteveen
Hel	Mirny	Sverdlovsk	Yakutsk
			Yuzno-Sakhalinsk

Publications

IAGA Bulletin No. 12 Series, International Union of Geodesy and Geophysics, lists K-indices from individual observatories for the intervals August 1932-1933 and 1940-1969. The publication of K-indices for individual observatories stopped with the data for 1969. These were published in IAGA Bulletin No. 12x1, the last issue of the Bulletin No. 12 series.

Magnetic Tape

K-indices from most of the world's observatories for the years 1969-1979 have been compiled by the International Union of Geodesy and Geophysics.

Punched Cards

K-indices from Fredericksburg, one card/day, 1966 to date.

5. KN, Ks and Km Indices

These data are available as follows:

Magnetic Tape 1959-1977

Publications 1964-1967 - Indices Kn, Ks and Km 1964-1967

1969-1979 - Published in IAGA Bulletin No. 32 Series as follows:

1969	32a	1973	32d	1977	32h
1970	32a	1974	32e	1978	32i
1971	32b	1975	32f	1979	32j
1972	32c	1976	32g		

6. Kp, Ap, Cp, Ci and C9 Indices

These data are available as follows:

Tabulations (Kp, Ap) January 1, 1932 to June 30, 1981

Punched Cards (Kp, Ap) one card/day 1932 to June 30, 1981
(Ci) one card/day 1960 to June 30, 1981

Magnetic Tape (ESRO) Kp for 1932 to June 30, 1981; Cp and C9 for 1951 to date. (This tape also includes solar rotation number and day of cycle, sunspot number and the 10.7-cm solar radio flux.)

Publications

1. Solar-Geophysical Data, NOAA: Monthly Kp, Ap, Cp, Ci indices and monthly lists of principal magnetic storms from 1940-1944 and 1949 onwards; magnetograms of storms reduced to the same sensitivity and time scale from 1967 onwards; C9 (annually) from 1957 onwards.

2. IAGA Bulletin No. 18, International Union of Geodesy and Geophysics: Kp, Ap and Cp indices for 1932-1961.

3. IAGA Bulletin No. 12 Series (No. 32 Series beginning with data for 1970), International Union of Geodesy and Geophysics: Kp, Ap and Cp indices from 1932 to 1973.

4. Journal of Geophysical Research: Kp; Ci indices from 1949 onwards; Ap index from 1954 onwards, except September 1970.

7. aa-Indices

These indices, based on the data from two approximately antipodal observatories in England and Australia, are available as follows:

Magnetic Tape	1868-1977
Publications	IAGA Bulletin No. 33, A Hundred Year Series of Geomagnetic Data, 1868-1967 by P.N. Mayaud.
	The aa-indices beginning with January 1974 are published in Solar-Geophysical Data, NOAA.

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