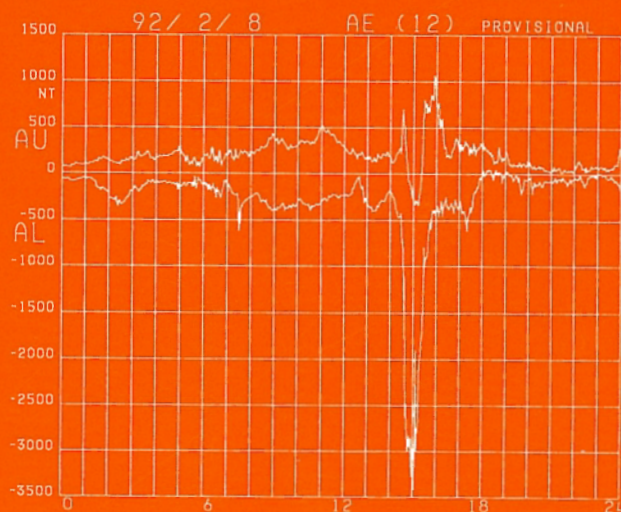


World Data Center C2 for Geomagnetism, Kyoto

DATA BOOK

No. 25

Provisional
Auroral electrojet (AE) indices
for January-December 1992



SEPTEMBER 1998

Data Analysis Center for
Geomagnetism and Space Magnetism
Graduate School of Science
KYOTO UNIVERSITY
KYOTO

Division of
Data Collection and Processing
**NATIONAL INSTITUTE OF
POLAR RESEARCH**
TOKYO

SPECIAL NOTICE

Provisional AE index is given in this Data Book. Although we received all necessary data for the AE derivation, we curtailed extensive check on the data, hence we used the title 'Provisional AE(12).' However, we believe that this version of the AE index is as accurate as the final AE index. Therefore we are publishing this version in the Data Book series.

The detailed situation concerning missing data for the peirod July to November is explained in the text under '2. Data Used.' In the nomenclature of AE(n) used by us, n designates the number of contributing observatories, and this specification of AE is made for each calendar month. Strictly speaking, for each of the months, July and November, n is 11 for part of the month. However, following the convention that we normally use, we have designated the AE indices for these months as 'provisional AE(12).' The AE data for August and October are named 'provisional AE(11)' and those for September, 'provisional AE(10).' With these remarks in mind we entitled this Data Book 'provisional AE(12).'

On the basis of anticipated schedules for the data collection and digitization, where needed, publication of Provisional AE indices in the following order is tentatively contemplated: January to December 1995, January to December 1996 and January to December 1997.

All requests and inquiries on the Data Books and the Prompt Reports of the WDC-C2 for Geomagnetism, Kyoto and notices of change of address should be sent to:

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World Data Center C2 for Geomagnetism, Kyoto

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September 1998

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and

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PREFACE

The Auroral Electrojet (AE) index was originally introduced by Davis and Sugiura in 1966 as a measure of global electrojet activity in the auroral zone. The AE index is now widely used for researches in geomagnetism, aeronomy, and solar-terrestrial physics. After the initial development at the NASA/Goddard Space Flight Center the calculation of the index was first performed at the Geophysical Institute of the University of Alaska, which published hourly values of the index for the years 1957 to 1964. The production of 2.5 min values was then made at the Goddard Space Flight Center for the period from September 1964 to June 1968.

After these early publications the index was regularly issued by the World Data Center A for Solar-Terrestrial Physics (WDC-A for STP) in Boulder, Colorado, which published 2.5 min values for the years 1966 to 1974 and 1.0 min values for 1975 and the first 4 months of 1976.

When it became difficult for the WDC-A for STP to continue the production of the AE index, a question was raised if the index could be produced at the WDC-C2 for Geomagnetism, which is operated by the Data Analysis Center for Geomagnetism and Space Magnetism, Faculty of Science, Kyoto University. Responding to this request we decided to produce the index for the two years, 1978-1979, of the International Magnetospheric Study (IMS), and published 1.0 min values of the AE index for these years in the "WDC-C2 for Geomagnetism Data Book" No.3-6.

Although the International Association of Geomagnetism and Aeronomy (IAGA) recommended the continuation of the production of the AE index at the WDC-C2, the AE production could not be extended beyond IMS because of the constraints in manpower and computing capability. Increasing demands for the AE index, however, motivated us to resume its production, and we then published the Data Book No.7 for the first half of 1980. After this publication, various possibilities of financial support for the production of the index were explored by the Subcommittee on Solar Terrestrial Physics of the Special Committee for International Cooperation, Science Council of Japan. Beginning with the Data Book No.8, the production of the AE index has been continued at the Kyoto University, but the printing and distribution of the Data Book have been done by National Institute of Polar Research in Tokyo.

In order to reduce the digitization burdon in Kyoto, WDC-B for STP in Moscow and WDC-C2 for Geomagnetism in Kyoto began a cooperative digitization project for Russian analog data. At the same time there have been several projects to rescue the Russian observatories after the collapse of USSR. One of these efforts was the STEP project which enabled IZMIRAN to digitize Tixie data for 1990. Another effort is a cooperative work to support Arctic and Antarctic Reserch Institute (AARI) which operates the Russian AE stations with the help from the WDC panel, WDC-A for STP and WDC-C2 Kyoto. This effort has

resulted in the installation of digital magnetometers in the Russian AE stations, and part of digital data has been provided since 1993. This effort has also resulted in the fast digitization of the data from the Russian AE stations by AARI.

As a result of the prompt derivation of the AE index, provisional AE index based on data from fewer stations are published in Prompt Reports of WDC-C2 for Geomagnetism, Kyoto for 1990, 1993, 1994. These provisional AE indices will be updated and will be published as the final AE index at later dates.

For 1991 and 1992, we obtained data from all 12 stations. However, the error check made is not as rigorous as it is usually made. Therefore we publish them as the provisional AE (12) in the Data Book series. Nevertheless the quality of this version seems quite high. Therefore a revised final version may not be published unless severe errors are detected.

Additional efforts are being made by INTERMAGNET. A transmitter was provided to the Tixie IKFIA station in 1990 by USGS and a way to send realtime data from Tixie through the Japanese Geostationally Meteorological Satellite (GMS) to the WDC-C2 Kyoto was sought with help of the Communications Research Laboratory in Japan and the Japan Meteorological Agency. After long negotiations, a temporary radio license was obtained and realtime data were successfully sent from Tixie to the WDC-C2 Kyoto for 6 months from March 1996 till September 1996; at the middle of September 1996 the license expired. After that, we have not been able to obtain the permanent radio license from the Russian authority.

We are trying to install the same transmitter system in Cape Chelyuskin and Cape Wellen as at Tixie; both stations are in the service area of the GMS satellite. However, Cape Wellen was closed in 1996 because of the local power failure. The situation in Cape Wellen looks so bad, and WDC-C2 Kyoto and AARI are seeking a way to set up a new station near Pyebek between Tixie and Cape Wellen, but the situation in the Russian Arctic area is now not favorable at all.

AARI and WDC-C2 Kyoto also made a cooperative effort to transmit Dixon data via a local meteorological telex line, and a radio telemetry system was set up at Dixon in 1996. However, the organizational situations of the Russian government are not preferable for providing the data through the system regularly to WDC-C2 Kyoto via AARI in Petersburg.

Development of INTERNET and cooperations of observatories directly or through INTERMAGNET enable us to collect near realtime data from many of the AE stations. Since January 1997, we have been deriving a Quick Look (QL) AE index with a delay of 2-3 days, and have been providing the plot of the QL AE index through WWW. Data are available from only 8 out of the 12 standard AE stations so far. Thus this QL index should be used with care. We are continuing effort to increase the number of stations for the QL AE index and to speed up the derivation of the provisional and final AE indices.

TABLE OF CONTENTS

	page
1. Derivation and Representation	1
2. Data Used	1
3. The Superposed Plot and the Plot of the Contributing Stations of the AE Indices	4
4. Results	4
5. Acknowledgements	6
 List of AE Stations (Table 1)	 2
Monthly Quiet-time H Reference Values (Table 2)	7
Hourly Average AE Indices (Table 3)	9
 Distribution of AE stations (Figure 1)	 2
Explanatory Figure (Figure 2)	3
GLT and MLT (Figure 3)	5
Daily Graphs of AE Indices (Figure 4)	59
Plots of the Contributing Stations (Figure 5)	59
Plots of AE Indices on Disturbed Days	194
 Stacked Common Scale Magnetograms (Figure 6)	 198
Summary plots of AU, AL and AE (Figure 7)	211

Auroral Electrojet (AE) Indices

for January - December 1992
(Provisional)

1. Derivation and Representation

The AE index is derived from geomagnetic variations in the horizontal component observed at selected (10-13) observatories along the auroral zone in the northern hemisphere. To normalize the data a base value for each station is first calculated for each month by averaging all the data from the station on the five international quietest days. This base value is subtracted from each value of one minute data obtained at the station during that month. Then among the data from all the stations at each given time (UT), the largest and smallest values are selected. The AU and AL indices are respectively defined by the largest and the smallest values so selected. The symbols, AU and AL, derive from the fact that these values form the upper and lower envelopes of the superposed plots of all the data from these stations as functions of UT. The difference, AU minus AL, defines the AE index, and the mean value of the AU and AL, i.e. $(AU+AL)/2$, defines the AO index. The term "AE indices" is usually used to represent these four indices (AU, AL, AE and AO). The AU and AL indices are intended to express the strongest current intensity of the eastward and westward auroral electrojets, respectively. The AE index represents the overall activity of the electrojets, and the AO index provides a measure of the equivalent zonal current.

In this report we present daily plots and hourly values of the AE indices and "contributing station" plots giving additional information on the indices. The stations that actually give the AU and AL values are named the "contributing stations" of the AU and AL indices. The pair of the AU and AL contributing stations is referred to as "the contributing stations of the AE indices". The plot identifies these AE contributing stations, and also gives information on the data availability for each station.

2. Data Used

To obtain reliable AE indices it is desirable to use as many observatories as possible. However, there are two major difficulties: one is that the distribution of the observatories in operation is not uniform along the auroral zone, and the other is that the digitization of magnetograms is a laborious task.

For the derivation of the AE indices reported in this Data Book, we used twelve observatories listed in Table 1. The distribution of these observatories is shown in Figure 1. Of the twelve observatories seven are taking digital data in year 1992; these stations are referred to as digital stations below. Three of the digital stations, Fort Churchill, Poste-de-la-Baleine, and Yellowknife, give data in the X, Y, Z coordinate system. To make these data compatible with the other stations, we convert the X and Y components to the H component by $H=\sqrt{X^2+Y^2}$. If either X or Y is missing, H is also treated as being missing. For the other three digital stations, Barrow, College, Narsarsuaq and Lerivogur, the original digital H component data are used. We used the Abisko data digitized from analog records at the station. For Dixon, Cape Chelyuskin, Tixie and Cape Wellen, we used the H values digitized at the Arctic and Antarctic Research

Table 1. List of AE(12) Stations.

Observatory	IAGA Code	Geographic Coord.		Geomagnetic Coord.	
		Lat. (°N)	Long. (°E)	Lat. (°N)	Long. (°E)
Abisko	ABK	68.36	18.82	66.04	115.08
Dixon Island	DIK	73.55	80.57	63.02	161.57
Cape Chelyuskin	CCS	77.72	104.28	66.26	176.46
Tixie Bay	TIK	71.58	129.00	60.44	191.41
Cape Wellen	CWE	66.17	190.17	61.79	237.10
Barrow	BRW	71.30	203.25	68.54	241.15
College	CMO	64.87	212.17	64.63	256.52
Yellowknife	YKC	62.40	245.60	69.00	292.80
Fort Churchill	FCC	58.80	265.90	68.70	322.77
Poste-de-la-Baleine	PBQ	55.27	282.22	66.58	347.36
Narsarsuaq (Narssarssuaq)	NAQ	61.20	314.16	71.21	36.79
Leirvogur	LRV	64.18	338.30	70.22	71.04

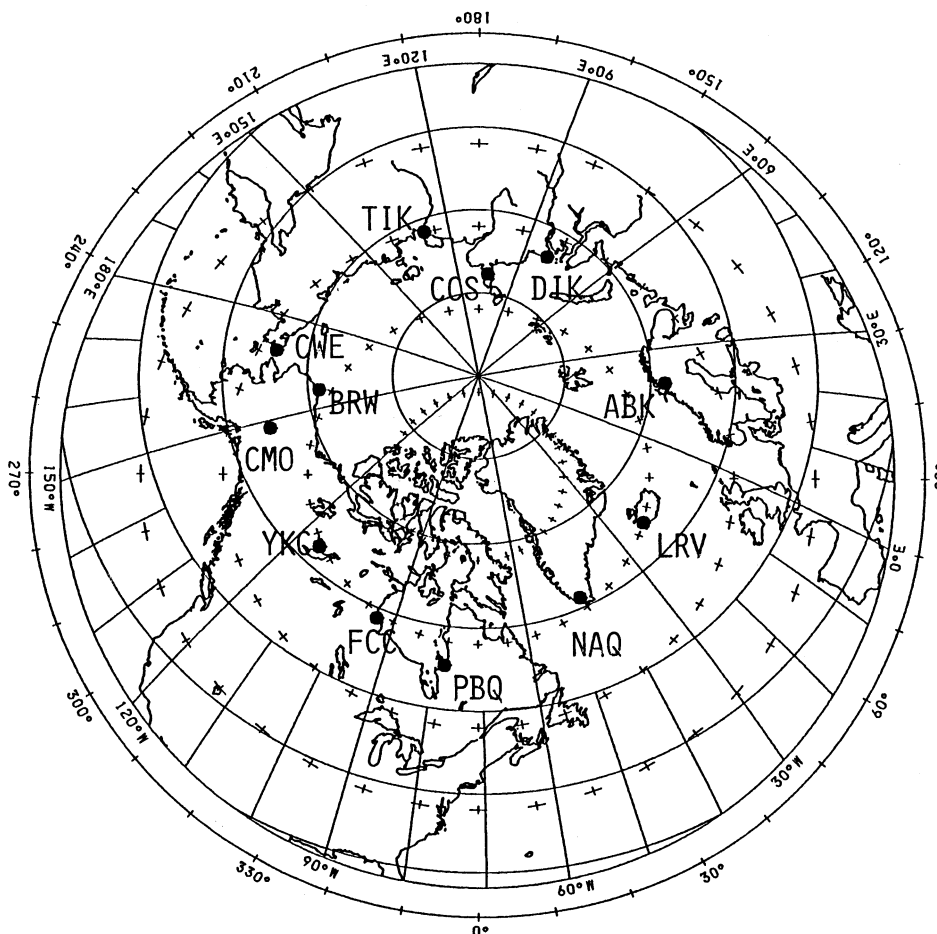


Figure 1. Distribution of AE(12) stations.

This figure is drawn by Lambert projection with the geomagnetic north pole at its center. Geographic coordinates are indicated by solid lines. Geomagnetic coordinates are shown by thin plus signs. Latitude circles are drawn at 10° intervals. Geomagnetic longitude is shown by the numbers along the outer circle and geographic longitude is given by the numbers along the inner circle with suffix E or W.

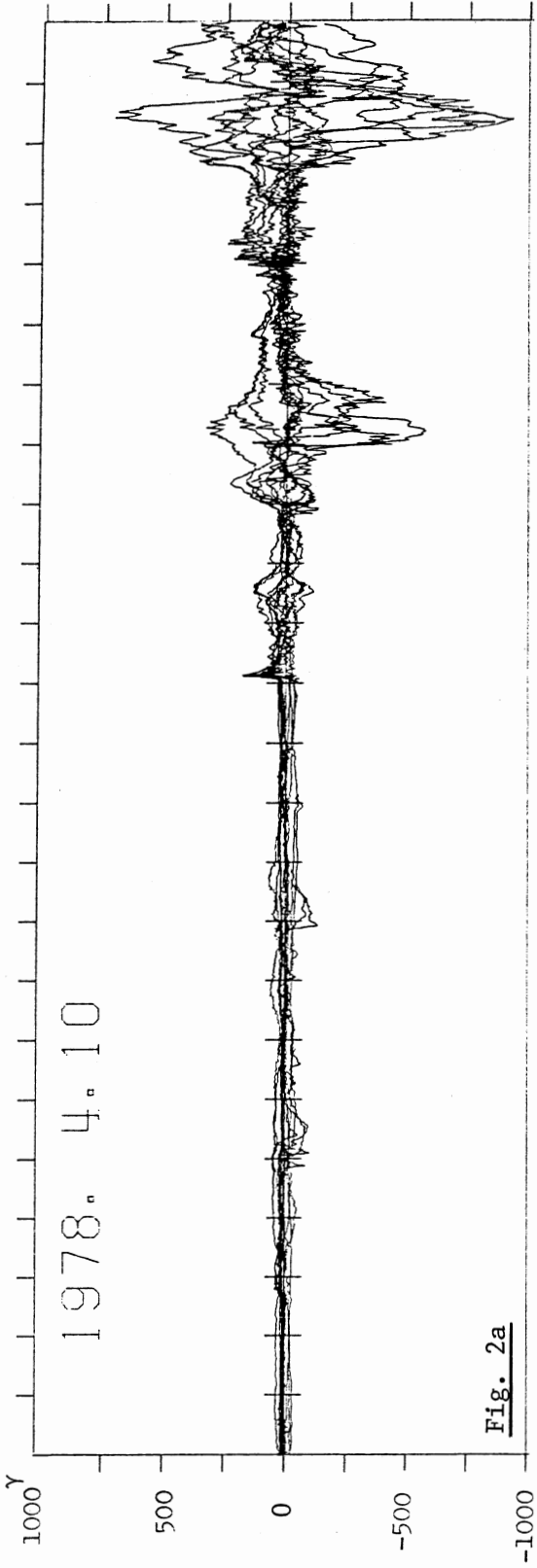


Fig. 2a

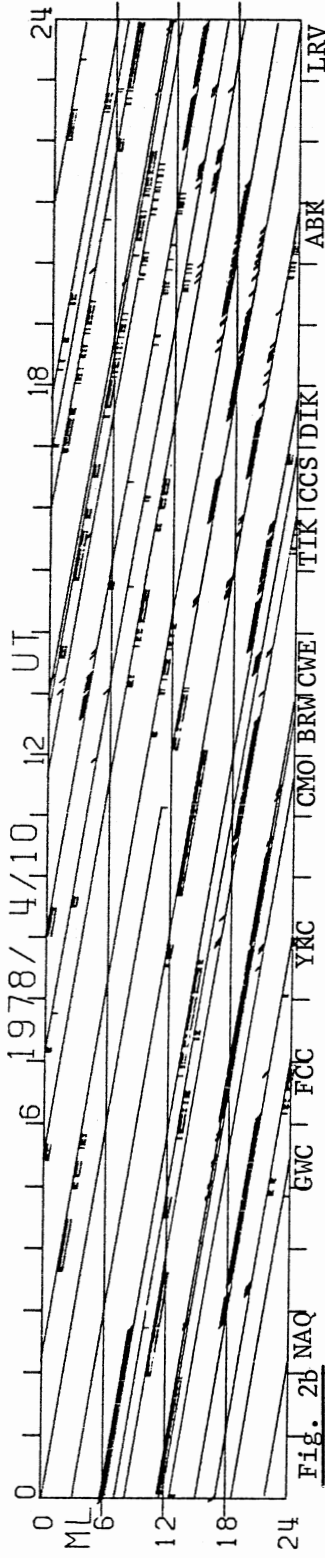


Fig. 2b

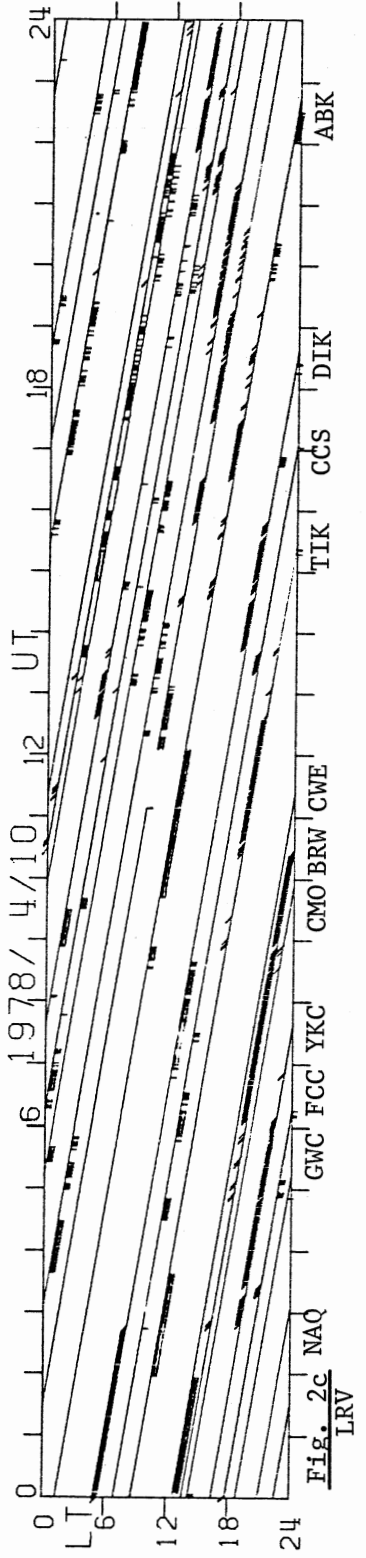


Fig. 2c

Institute in Petersburg.

In the confused state of affairs during the reorganization of Russia, the observatory personnel responsible for the magnetic observation at Cape Chelyuskin left the station from the middle of July till the middle of November. The observatory personnel at Tixie also was absent from the observatory during the month of September. The magnetic observation at these observatories for the periods indicated above is therefore truly lacking and will never be recovered, unfortunately.

We by-passed the correction process of re-digitization of analog magnetograms at Kyoto in this provisional version of the AE index unless the digital recording or digitized values appear clearly faulty; hence we call this version 'provisional'. However, the quality of the data for 1992 is quite high, and although this is a 'provisional' version, we believe that this provisional AE(12) for 1992 is reliable enough to be used for scientific analyses.

3. The Superposed Plot and the Plot of the Contributing Stations of the AE Indices

Figure 2a shows an example of the superposed plot of H traces from the AE stations for April 10, 1978. The upper envelope gives the AU index and the lower envelope, the AL index; Figures 2b and 2c show sample plots of the contributing stations in geomagnetic (2b) and geographic (2c) local time, for the same day as in Figure 2a. In these figures, the upper and lower plumes on a diagonal line for each station show the contribution of this station to the AU and AL indices, respectively. In Figure 2b, for example, the data from Dixon Island (DIK) give the AU index from 0000 to 0240 UT and again from 1330 to 1530 UT, and the AL index from 0640 to 0830 UT. It is seen that from 1100 to 1200 UT Leirvogur (LRV) offers no data. Since Leirvogur is a key station for the AL index for this time interval, the exact AL values may be lower than was calculated for this interval.

We use geomagnetic local time (MLT) for the ordinate of the plot of the contributing stations. MLT is defined by the difference between the geomagnetic longitude of the station and the geomagnetic longitude of the meridian opposite to the subsolar point; and MLT is a function of the geomagnetic longitude of the station, the Sun's declination, and universal time. Figures 3a, 3b, and 3c show the differences between geographic local time GLT and MLT of the stations used to derive the AE indices for winter, summer and equinox, respectively. In these figures GLT is represented for each station by a straight line which runs diagonally, and MLT is shown by the top of T shaped mark (or the bottom of inverted T). The length of the vertical line of T from the diagonal line is the difference between GLT and MLT. Note that for some stations the difference between GLT and MLT is as much as 2 hours.

4. Results

Monthly quiet-time H reference values for January–December 1992 are listed in Table 2. Table 3 gives hourly average values of the AE indices for each day from January to December 1992.

Daily graphs of 1.0-min AE indices (AU, AL, AE and AO) are shown in Figure 4, and corresponding plots of the contributing stations are given in Figure 5. Supplemental plots for disturbed days are given at the end of Figure 4. Figure 6 shows the H-traces of magnetograms from AE(12) stations for each month from January to December 1992. Finally, summary plots of hourly values of AU, AL and AE indices are given in Figure 7.

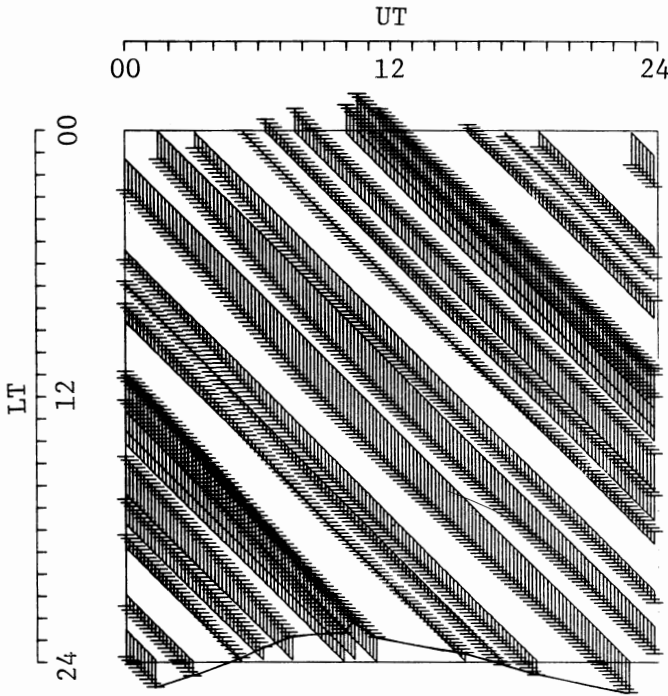


Fig. 3a Difference between GLT and MLT in winter.

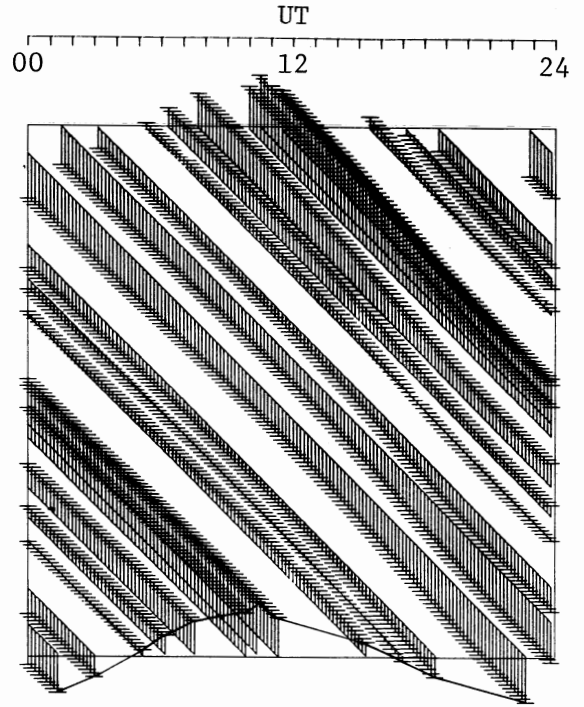


Fig. 3b Difference between GLT and MLT in summer.

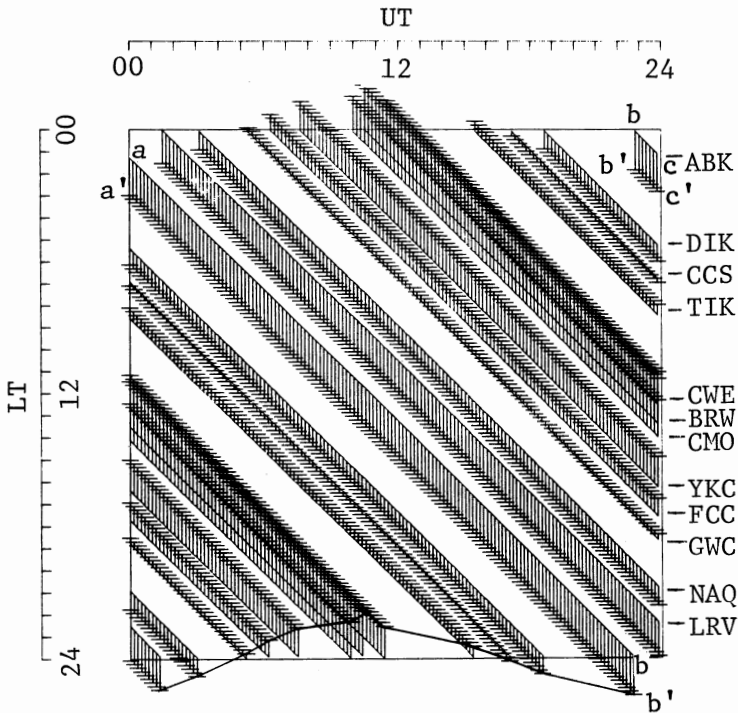


Fig. 3c Difference between GLT and MLT in equinox.

Fig. 3a, 3b and 3c show the difference between the geographic local time (GLT) and the geomagnetic local time (MLT) for winter, summer and equinox, where a-b-c (full line on the top or bottom of the vertical lines) shows the relation between UT and GLT, and a'-b'-c' (crossing of the vertical and horizontal lines) shows the relation between UT and MLT for each of the AE(12) stations.

Departing from the usual format in the Data Books for the final AE index, we give the hourly value tables, plots of the AE indices and plots of the contribution stations month by month.

5. Acknowledgements

The calculation of the provisional AE indices in this volume was made possible with the data provided directly to us by the AE stations or through the World Data Centers and the INTERMAGET GINs.

As we do not know the details of the operation of each observatory, it is not possible for us to acknowledge all the persons who have contributed to the preparation of data. Here we mention only those persons with whom we have directly corresponded.

We thank Dr. T. Saemundsson of the Leirvogur Observatory for the very quick transmission of data, Ms. B. Olafsdottir of the Geological Survey of Sweden for the digitization and quality control of Abisko data, Dr. E. Friis-Christensen, Mr. O. Rasmussen and Mr. B. Pederson of the Danish Meteorological Institute, Mr. G. Jansen van Beek and Dr. R. Coles of the Geological Survey of Canada, Mr. L. Wilson, Mr. D. Herzog of the United States Geological Survey for their cooperations, and Dr. O. Troshichev of the Arctic and Antarctic Research Institute for the digitization of Russian data. We also thank Dr. W. Green of USGS for the support of the Russian AE stations and the coordination of data supply through INTERMAGNET, Dr. H. Kroehl and Mr. L. Morris of WDC-A for STP, Mr. J. Allen of the SCOSTEP office, and Dr. V. Papitashvili for cooperation in the digitization project of Russian data, and Dr. Z. Kharin of WDC-B for STP for the preparation of microfilm copies of magnetograms from the Russian stations.

Locally we thank Ms. Y. Yamamoto for her assistance in the preparation of this Prompt Report. We also thank Drs. T. Iyemori, T. Takeda and Ms. N. Kondo of WDC-C2 for Geomagnetism for their assistance in the computation and production of plots. Thanks are also due to Dr. A. Kadokura of the National Institute of Polar Research who contributed to the printing and distribution of this data book.

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Table 2. Monthly quiet-time H reference values (unit in nT)
(Year 1992)

STATION	Jan.	Feb.	Mar.	Apr.	May	June
Abisko	11544	11538	11540	11545	11539	11546
Dixon Island	6036	6024	6031	6037	6031	6036
Cape Chelyuskin	3133	3122	3126	3130	3130	3138
Tixie Bay	7556	7540	7550	7554	7545	7550
Cape Wellen	13879	13863	13872	13878	13870	13875
Barrow	9470	9453	9473	9474	9475	9486
College	12741	12723	12740	12745	12731	12747
Yellowknife	8766	8748	8763	8775	8775	8775
Fort Churchill	7951	7938	7951	7965	7966	7972
Poste-de-la-Baleine	11030	11017	11029	11049	11068	11059
Narsarsuaq	12303	12295	12294	12311	12314	12319
Leirvogur	12420	12412	12412	12425	12422	12426

STATION	July	Aug.	Sep.	Oct.	Nov.	Dec.
Abisko	11543	11541	11530	11525	11536	11532
Dixon Island	6033	6026	6020	6001	6009	6005
Cape Chelyuskin	3132	*NA*	*NA*	*NA*	3094	3094
Tixie Bay	7545	7533	*NA*	7478	7441	7426
Cape Wellen	13871	13863	13856	13853	13850	13851
Barrow	9471	9457	9464	9446	9441	9442
College	12734	12728	12728	12721	12715	12720
Yellowknife	8778	8775	8778	8765	8773	8771
Fort Churchill	7985	7978	7977	7968	7982	7984
Poste-de-la-Baleine	11068	11060	11060	11056	11073	11055
Narsarsuaq	12323	12316	12312	12311	12326	12316
Leirvogur	12430	12425	12419	12417	12429	12420

TABLE 3

Hourly average AE indices (AU, AL, AE and AO)
for January-December 1992.

AU Index (Provisional Hourly mean values, unit nT)

January 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	90	62	44	48	67	35	31	41	56	53	54	95	151	159	53	78	81	41	27	22	27	32	65	25	60
2	48	8	112	116	67	102	155	64	69	72	200	173	50	15	10	14	61	48	37	4	5	9	12	24	61
3	25	84	172	205	104	53	67	95	144	147	111	172	192	150	113	48	74	50	39	80	163	118	112	141	111
4	130	107	55	69	61	133	199	139	106	55	52	48	32	75	101	86	51	49	92	160	92	188	140	150	99
5	148	162	112	87	44	54	56	70	75	59	75	54	42	46	40	63	77	171	179	102	50	56	58	63	81
6	66	58	49	57	75	106	109	72	35	28	24	22	31	66	87	64	32	28	32	41	159	125	93	33	62
7	29	34	54	51	63	82	101	73	62	83	83	49	45	58	78	52	70	70	121	150	180	177	121	62	81
8	62	59	101	110	94	80	157	181	189	135	113	56	73	153	175	206	215	181	138	215	141	95	101	71	129
Q 9	49	68	79	39	24	62	17	23	12	8	11	7	7	16	13	10	7	8	6	5	4	11	36	43	23
10	40	52	75	129	65	65	64	45	80	144	112	171	116	45	26	30	67	95	67	38	40	63	74	53	73
D 11	76	52	28	173	163	143	107	119	210	289	233	249	234	230	207	235	117	78	144	136	141	129	100	68	153
D 12	32	45	120	59	27	37	72	85	81	65	86	176	68	9	12	25	16	47	32	48	52	58	118	77	60
D 13	73	81	29	49	129	305	303	352	220	87	166	69	109	107	125	104	151	238	96	55	42	45	39	79	127
14	77	85	74	90	64	101	183	177	135	70	72	94	44	36	34	172	154	116	66	92	156	136	87	78	100
15	32	54	30	17	34	27	43	59	85	118	93	104	71	78	74	60	33	27	40	67	64	28	38	30	54
D 16	27	42	42	40	69	38	53	78	85	76	82	70	71	69	79	42	38	71	93	76	160	130	83	88	71
17	77	59	56	36	24	19	25	29	40	76	50	26	16	32	25	28	33	36	36	30	37	42	40	50	38
18	45	42	28	34	27	39	66	68	59	36	44	60	30	21	26	24	13	16	12	13	12	7	6	3	30
Q 19	5	10	19	22	36	34	27	55	84	33	31	49	36	19	12	22	5	19	17	17	15	11	8	8	25
20	27	28	35	59	55	79	124	85	52	110	170	226	181	78	60	90	144	118	65	53	85	33	37	59	85
21	27	17	22	19	14	14	13	20	17	6	7	6	17	54	13	51	38	25	53	55	24	67	75	114	32
22	83	40	40	40	39	42	33	36	54	65	115	116	110	96	69	50	44	23	15	11	14	18	18	17	49
Q 23	14	15	16	19	19	27	42	41	40	34	12	12	11	10	37	41	13	9	13	19	16	15	12	18	21
Q 24	16	19	16	13	13	17	21	22	17	39	27	23	16	13	13	16	16	20	19	18	17	14	19	31	19
Q 25	52	97	129	132	93	49	34	29	18	16	20	25	40	40	38	49	16	13	12	14	14	13	17	14	41
26	14	14	21	24	24	24	24	20	23	24	18	16	16	11	13	50	36	36	34	27	17	17	24	25	23
27	26	59	54	292	210	43	42	34	28	18	29	21	12	11	50	92	68	46	159	188	153	90	107	113	81
28	94	119	127	121	124	107	89	70	31	20	39	99	147	148	60	31	29	89	50	31	36	32	37	71	75
29	101	187	165	93	65	72	37	79	131	78	41	42	46	60	30	62	52	25	55	83	91	123	95	66	78
D 30	95	69	40	35	111	122	157	70	35	40	105	62	63	50	41	109	100	52	93	118	75	139	147	131	86
31	57	102	159	104	84	128	115	71	87	112	83	108	127	127	28	21	42	35	55	94	50	22	47	51	80
Mean	56	62	67	76	67	72	82	77	76	70	76	80	71	67	56	65	61	60	61	66	68	65	63	59	68
5Q Mean	27	41	51	45	37	37	28	34	34	26	20	23	22	19	22	27	11	13	13	14	13	12	18	22	25
5D Mean	60	57	51	71	99	129	138	140	126	111	134	125	109	93	92	103	84	97	91	86	94	100	97	88	99

January 1992

AL Index (Provisional Hourly mean values, unit nT)

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	-38	-6	-1	-5	-26	-16	-34	-57	-211	-68	-62	-162	-200	-113	-176	-96	-40	-41	-10	-15	-21	-21	-62	-15	-62
2	-34	-391	-378	-297	-138	-73	-152	-198	-112	-131	-391	-224	-23	-24	-22	-27	-66	-43	-37	-14	-16	-16	-26	-49	-120
3	-78	-171	-228	-101	-50	-60	-46	-92	-198	-57	-103	-123	-134	-351	-197	-72	-60	-26	-123	-175	-222	-326	-213	-99	-138
4	-118	-41	-32	-47	-175	-104	-133	-33	-16	-24	-117	-33	-25	-68	-56	-36	-90	-70	-105	-262	-127	-112	-122	-265	-92
5	-254	-38	-23	-58	-82	-37	-21	-1	-7	-44	-161	-29	-38	-30	-59	-30	-191	-467	-393	-128	-26	-21	-15	-27	-91
6	-40	-24	-28	-37	-67	-208	-74	-21	-2	0	-9	-31	-61	-281	-161	-136	-180	-75	-57	-35	-202	-363	-116	-43	-94
7	-43	-67	-93	-30	-13	-6	-1	0	-43	-60	-30	-39	-72	-157	-123	-89	-284	-332	-191	-300	-223	-110	-12	-8	-97
8	-38	-38	-59	-146	-59	-26	-15	-97	-285	-177	-125	-284	-397	-267	-250	-222	-180	-242	-578	-358	-209	-178	-91	-30	-181
9	-26	-78	-94	-18	-9	-32	-12	-6	-6	-10	-10	-11	-16	-21	-28	-35	-37	-27	-17	-11	-9	-7	-16	-36	-24
10	-170	-221	-229	-178	-50	-34	-41	-97	-158	-214	-164	-240	-223	-225	-189	-155	-234	-336	-346	-118	-35	-55	-330	-257	-179
11	-187	-256	-232	-198	-166	-208	-153	-207	-272	-319	-498	-379	-518	-630	-807	-758	-604	-651	-421	-416	-508	-269	-267	-246	-382
12	-253	-231	-378	-208	-170	-193	-492	-296	-134	-108	-197	-381	-300	-47	-36	-130	-105	-131	-192	-122	-79	-40	-131	-29	-183
13	-66	-20	-121	-114	-358	-433	-377	-303	-311	-428	-363	-607	-406	-259	-320	-291	-288	-478	-144	-61	-28	-67	-109	-370	-263
14	-278	-79	-51	-74	-11	-81	-165	-187	-198	-56	-16	-85	-33	-41	-138	-592	-267	-221	-118	-191	-212	-207	-160	-232	-154
15	-64	-168	-133	-88	-142	-149	-161	-252	-456	-367	-244	-310	-346	-512	-280	-22	-124	-208	-135	-155	-271	-34	-62	-44	-197
16	-20	-22	-69	-52	-176	-199	-148	-208	-220	-238	-170	-147	-292	-311	-256	-194	-194	-393	-397	-195	-681	-290	-94	-151	-213
17	-231	-42	-23	-5	-18	-21	-42	-106	-177	-238	-159	-83	-61	-125	-245	-365	-323	-237	-274	-152	-126	-121	-188	-66	-143
18	-49	-25	-81	-59	-27	-128	-196	-67	-159	-222	-199	-246	-182	-42	-20	-15	-16	-18	-13	-11	-22	-10	-9	-12	-76
19	-14	-15	-12	-36	-103	-11	-29	-118	-58	-54	-161	-229	-98	-27	-22	-52	-101	-87	-38	-68	-24	-57	-21	-16	-61
20	-64	-185	-133	-143	-153	-248	-149	-103	-222	-336	-322	-278	-213	-160	-237	-321	-495	-350	-103	-41	-125	-69	-64	-205	-197
21	-43	-11	-7	-7	-9	-6	-16	-51	-43	-32	-8	-25	-37	-232	-303	-295	-126	-134	-192	-132	-18	-64	-170	-374	-97
22	-165	-50	-105	-81	-109	-57	-18	-18	-53	-116	-157	-168	-272	-281	-153	-140	-134	-78	-31	-22	-12	-3	-1	-3	-93
23	-6	-9	-9	-20	-9	-74	-98	-27	-47	-27	-14	-15	-14	-17	-70	-81	-25	-19	-18	-75	-104	-15	-9	-17	-34
24	-27	-29	-5	-3	-1	3	3	-23	-77	-87	-22	-22	-23	-18	-22	-22	-51	-46	-12	-6	-2	-2	-6	-17	-21
25	-72	-86	-40	-7	3	-10	-7	-3	0	-2	-14	-61	-107	-72	-69	-51	-27	-25	-20	-10	-7	-6	-18	-12	-30
26	-15	-11	-10	-8	-4	0	0	0	0	-1	0	-2	-9	-15	-17	-50	-18	-16	-17	-13	-5	-2	-3	-14	-10
27	-4	-106	-456	-445	-311	-47	-29	-24	-29	-30	-25	-31	-24	-25	-61	-58	-73	-77	-106	-134	-103	-209	-104	-90	-108
28	-132	-266	-165	-79	-45	-10	-17	-29	-13	-16	-26	-90	-88	-142	-79	-67	-42	-175	-225	-23	-37	-17	-40	-121	-81
29	-295	-233	-153	-42	-17	-28	-30	-120	-129	-73	-29	-17	-36	-148	-317	-173	-22	-33	-175	-300	-371	-275	-167	-98	-137
30	-119	-93	-207	-193	-123	-206	-107	-14	-30	-38	-69	-62	-99	-91	-50	-258	-323	-166	-195	-121	-122	-215	-236	-179	-138
31	-287	-267	-106	-72	-57	-97	-86	-308	-240	-116	-116	-198	-219	-158	-53	-58	-160	-164	-147	-337	-147	-44	-58	-45	-147
Mean	-104	-105	-118	-91	-86	-90	-91	-98	-126	-119	-128	-148	-147	-157	-155	-157	-157	-173	-155	-129	-132	-104	-94	-102	-123
5Q Mean	-29	-43	-32	-16	-23	-24	-28	-35	-37	-36	-44	-67	-51	-31	-42	-48	-48	-40	-21	-34	-29	-17	-14	-19	-34
5D Mean	-129	-124	-201	-153	-198	-247	-255	-205	-193	-226	-259	-315	-323	-267	-293	-326	-302	-363	-269	-183	-283	-176	-167	-195	-235

AE Index (Provisional Hourly mean values, unit nT)

January

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	129	70	46	54	95	53	67	99	267	122	117	259	353	273	230	174	122	83	38	38	49	54	129	41	123
2	83	400	491	414	206	176	308	263	181	204	591	397	75	40	32	41	128	92	75	19	22	26	40	75	183
3	103	256	401	308	154	113	114	188	344	205	215	296	328	502	311	121	135	77	164	256	385	445	326	240	249
4	250	149	89	117	237	239	333	173	123	81	170	83	58	144	157	124	141	120	197	422	219	301	262	416	192
5	404	202	136	146	128	92	78	71	84	105	237	84	81	77	100	94	269	638	572	231	76	78	74	92	173
6	108	83	79	95	144	316	185	95	37	28	33	54	93	347	249	200	213	105	90	77	361	490	210	76	157
7	74	102	148	82	78	89	103	75	107	144	113	88	118	216	201	141	354	403	312	451	403	287	134	71	179
8	101	98	161	256	154	107	174	279	475	313	240	341	471	420	426	428	395	423	716	573	350	274	193	102	311
9	77	147	173	58	34	96	30	30	19	18	21	19	24	38	42	46	44	35	25	17	15	19	53	80	48
10	211	274	306	309	116	100	106	143	239	358	278	412	340	270	216	185	302	432	414	157	76	119	405	312	253
11	263	310	261	372	330	352	262	327	484	609	732	629	753	861	1015	993	722	730	565	553	649	399	367	315	536
12	287	278	500	268	199	231	566	382	216	173	284	557	369	58	49	156	122	179	224	171	132	98	251	107	244
13	140	102	151	164	489	740	681	655	531	517	531	677	516	367	446	395	440	717	240	117	71	113	149	450	392
14	355	166	126	165	76	183	349	365	334	127	90	181	78	78	173	764	421	338	185	284	368	345	248	311	255
15	97	223	164	106	177	177	205	312	542	485	337	414	418	590	355	83	157	235	176	223	337	63	102	75	252
16	48	65	112	93	247	239	202	287	307	315	253	218	364	381	335	237	233	464	490	271	841	421	178	240	285
17	308	101	80	42	43	41	68	137	217	315	210	109	77	157	271	393	356	274	311	183	164	164	229	117	182
18	95	68	111	94	55	169	263	135	219	259	244	307	212	63	47	41	30	35	27	25	36	18	16	16	108
19	20	25	31	59	140	46	58	174	144	88	192	279	135	47	35	75	107	107	57	86	41	69	30	25	86
20	92	214	168	203	209	328	274	189	275	448	493	505	394	239	298	412	640	468	169	94	211	103	103	265	283
21	71	29	31	28	24	20	30	72	61	38	16	32	54	287	316	346	165	160	246	188	43	132	246	489	130
22	248	92	146	121	150	101	53	55	108	182	273	285	382	378	223	191	179	102	47	34	28	22	19	20	143
23	21	25	26	39	29	102	142	70	89	62	27	27	26	28	108	123	39	30	32	95	122	31	22	36	56
24	44	48	21	17	15	13	17	46	95	128	50	46	39	32	36	39	67	66	32	25	19	17	26	49	41
25	125	183	170	140	90	60	43	33	18	19	34	87	147	112	108	101	44	39	33	26	22	20	36	27	71
26	29	26	31	33	29	25	25	20	23	25	19	19	26	27	32	101	55	53	52	41	23	20	28	40	33
27	32	166	511	738	522	92	72	59	58	49	55	53	36	36	112	150	142	124	266	322	256	299	213	204	190
28	227	386	293	201	169	118	107	101	45	36	66	190	236	291	140	98	72	265	275	55	74	50	78	193	157
29	397	420	319	135	83	102	69	201	261	152	71	60	83	208	348	235	75	59	231	384	462	398	263	165	216
30	216	164	248	230	235	329	266	85	66	79	176	126	162	141	92	368	424	219	289	240	198	354	384	311	225
31	346	370	266	177	141	226	203	379	328	229	200	306	347	285	82	79	203	200	203	432	198	66	106	98	228
Mean	161	169	186	169	154	163	175	177	203	190	205	230	219	225	212	223	219	234	217	196	201	170	158	163	192
5Q Mean	57	85	84	62	61	63	58	70	73	63	64	91	74	51	65	76	60	55	35	49	43	31	33	43	60
5D Mean	190	183	254	225	300	378	395	347	320	338	395	441	432	361	387	429	388	461	361	270	378	277	265	284	336

A0 Index (Provisional Hourly mean values, unit nT) January 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	25	27	20	21	20	9	-1	-7	-76	-7	-4	-33	-23	22	-60	-8	20	0	7	3	2	4	1	4	-1
2	6	-191	-132	-89	-35	14	1	-66	-21	-29	-95	-25	13	-4	-5	-6	-2	2	0	-4	-5	-3	-6	-12	-29
3	-26	-43	-28	51	26	-3	10	1	-26	44	3	24	29	-99	-41	-12	6	11	-42	-47	-29	-103	-49	20	-13
4	5	31	11	10	-56	14	32	52	44	15	-31	7	3	3	22	24	-19	-9	-5	-50	-16	37	8	-57	3
5	-52	61	43	13	-18	8	16	34	33	7	-42	12	1	7	-8	16	-56	-147	-105	-12	11	17	21	17	-4
6	12	16	9	9	3	-50	17	25	16	14	7	-4	-14	-107	-36	-35	-73	-23	-12	2	-21	-118	-11	-4	-15
7	-7	-15	-19	10	24	37	50	36	9	11	26	4	-12	-49	-21	-18	-106	-130	-33	-74	-21	33	54	26	-7
8	11	10	20	-18	17	26	70	41	-47	-20	-5	-113	-161	-56	-37	-7	17	-30	-219	-70	-33	-40	4	19	-25
9	10	-5	-7	10	7	14	2	8	2	0	0	-1	-4	-1	-6	-11	-14	-9	-5	-2	-2	1	9	2	0
10	-64	-84	-76	-24	7	15	10	-25	-38	-34	-25	-33	-52	-89	-80	-61	-82	-119	-138	-39	2	4	-127	-101	-52
D 11	-55	-101	-100	-12	-1	-31	-22	-43	-30	-14	-131	-64	-141	-199	-299	-260	-242	-285	-137	-138	-182	-69	-82	-88	-114
D 12	-110	-92	-128	-73	-70	-77	-209	-105	-26	-21	-55	-102	-115	-18	-11	-52	-43	-41	-79	-35	-13	8	-6	24	-60
D 13	3	30	-45	-32	-113	-63	-36	24	-44	-169	-98	-268	-148	-75	-96	-92	-67	-119	-23	-2	6	-10	-34	-145	-67
14	-100	3	11	7	26	9	9	-4	-31	6	27	4	5	-2	-51	-209	-55	-51	-25	-48	-27	-35	-86	-76	-26
15	-15	-56	-50	-34	-53	-60	-58	-96	-185	-124	-75	-102	-137	-216	-102	18	-45	-90	-46	-43	-103	-2	-11	-6	-70
D 16	3	9	-12	-5	-53	-79	-47	-64	-66	-79	-43	-38	-109	-120	-88	-75	-76	-160	-151	-58	-259	-79	-5	-31	-70
17	-76	8	15	15	2	-1	-8	-37	-67	-80	-53	-28	-22	-46	-109	-167	-144	-99	-118	-60	-44	-39	-73	-7	-51
18	-2	8	-25	-12	0	-43	-64	0	-49	-92	-77	-92	-75	-10	3	4	-1	-1	0	0	-5	-1	-1	-3	-22
Q 19	-3	-2	2	-7	-33	11	0	-30	12	-9	-64	-89	-30	-3	-4	-14	-47	-33	-10	-25	-4	-22	-6	-3	-17
20	-18	-78	-48	-41	-48	-84	-12	-8	-84	-112	-75	-26	-16	-40	-88	-114	-175	-115	-18	5	-19	-17	-12	-72	-55
21	-7	2	7	5	2	3	-1	-14	-12	-12	0	-8	-9	-88	-144	-121	-43	-54	-69	-37	2	1	-47	-129	-32
22	-40	-4	-31	-20	-34	-7	7	8	0	-24	-20	-26	-80	-91	-41	-44	-44	-27	-7	-4	0	6	7	6	-21
Q 23	3	2	3	0	4	-22	-27	6	-3	3	0	0	-1	-2	-16	-19	-6	-4	-2	-27	-43	0	1	0	-6
Q 24	-5	-4	5	4	5	10	12	0	-29	-23	2	0	-3	-2	-3	-2	-17	-12	2	5	6	5	6	5	-1
Q 25	-9	5	43	61	48	18	12	12	9	6	2	-17	-33	-15	-15	-1	-5	-5	-3	1	2	3	0	0	5
26	0	1	4	7	9	11	11	9	11	11	8	6	3	-1	-1	0	8	9	7	6	5	7	10	5	6
27	10	-23	-200	-75	-50	-1	6	4	0	-5	1	-4	-5	-6	-5	16	-2	-15	26	26	25	-59	1	11	-13
28	-19	-73	-19	20	39	48	35	20	9	1	6	4	28	3	-9	-17	-6	-42	-86	3	0	6	-1	-24	-3
29	-96	-23	5	24	24	21	3	-19	1	2	6	11	5	-43	-142	-54	14	-3	-59	-108	-139	-75	-35	-15	-29
D 30	-12	-12	-82	-78	-5	-41	25	27	2	0	17	0	-17	-20	-4	-73	-110	-56	-50	-1	-23	-37	-43	-24	-25
31	-114	-81	26	15	13	15	14	-117	-75	-1	-15	-44	-45	-15	-12	-18	-58	-63	-45	-121	-47	-10	-5	2	-33
Mean	-23	-21	-25	-7	-9	-9	-4	-10	-24	-23	-25	-33	-37	-44	-48	-45	-47	-55	-46	-30	-31	-18	-15	-21	-27
5Q Mean	0	0	9	13	6	6	0	0	-1	-4	-12	-21	-14	-4	-8	-9	-17	-12	-3	-9	-8	-2	2	0	-3
5D Mean	-34	-33	-73	-40	-48	-58	-57	-32	-32	-56	-62	-94	-106	-86	-99	-110	-107	-132	-88	-46	-94	-37	-34	-52	-67

AU Index (Provisional Hourly mean values, unit nT) February 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	65	56	67	79	100	142	184	159	167	174	183	245	154	119	214	371	393	383	282	228	208	132	61	15	174
2	135	102	130	133	79	165	219	93	79	51	41	40	113	105	166	208	185	165	255	153	151	14	-29	10	115
3	-28	82	141	70	30	13	48	124	85	42	108	132	112	94	120	84	92	52	92	100	22	102	192	49	82
4	16	34	57	54	84	55	54	39	39	36	30	36	36	13	35	44	36	58	160	144	87	139	114	91	62
5	48	23	17	20	18	19	27	30	16	28	42	18	24	25	40	15	11	12	14	11	11	10	17	13	21
6	18	16	18	18	25	26	30	31	53	62	32	40	65	51	29	46	40	42	41	36	37	26	34	30	35
7	33	51	81	88	87	85	104	110	106	188	191	248	180	230	299	185	168	107	65	42	37	59	62	64	120
8	83	132	127	184	206	144	182	210	301	321	365	406	221	183	175	365	373	286	211	121	68	46	79	94	203
9	239	254	361	213	139	244	324	229	8	-4	-79	-23	39	23	90	97	28	160	81	4	-6	80	20	120	110
10	109	83	59	129	115	129	61	56	58	35	72	76	53	61	150	222	97	93	61	66	51	25	24	27	80
11	25	33	39	33	42	27	31	23	18	27	22	17	15	28	20	32	42	45	34	38	58	58	40	31	32
12	51	39	73	77	78	51	62	58	37	43	56	66	92	65	128	72	35	20	30	22	20	30	45	41	54
13	64	43	43	58	74	114	135	158	112	101	82	58	26	31	26	30	41	33	32	25	23	17	23	21	57
14	27	28	33	42	48	38	29	37	44	92	96	82	43	51	46	33	40	43	28	25	42	29	28	31	43
15	24	25	29	46	47	45	31	47	36	52	40	25	28	35	31	45	41	28	27	20	19	18	19	20	32
16	21	20	28	42	34	33	36	37	64	56	40	27	31	31	31	30	34	30	31	24	22	25	43	52	34
17	55	40	42	49	43	51	71	87	109	149	141	59	108	151	84	77	40	57	30	30	39	46	57	54	70
18	57	65	78	135	175	97	100	108	145	133	78	62	57	85	55	108	84	65	51	43	49	51	69	46	83
19	83	91	112	73	68	45	86	58	53	53	68	74	62	67	80	47	74	116	106	187	189	167	172	235	99
20	293	199	250	179	190	102	114	155	212	342	186	79	243	397	311	278	233	57	45	65	133	121	59	-2	177
21	30	66	65	136	147	118	14	45	40	217	282	142	68	100	75	60	23	36	27	16	25	21	46	41	77
22	66	84	95	99	170	252	203	315	219	130	131	109	151	132	74	81	69	78	53	54	112	211	168	58	130
23	149	68	112	127	77	111	87	97	73	70	59	45	62	54	63	73	57	44	94	112	179	191	191	195	100
24	108	46	102	66	97	105	117	115	198	284	264	148	116	109	214	156	121	212	209	225	197	24	216	215	153
25	173	163	94	90	145	240	227	116	176	53	84	143	111	71	105	157	182	199	203	227	143	178	128	50	144
26	58	72	60	88	116	162	128	118	164	145	217	150	156	100	85	145	351	115	25	41	37	110	32	218	121
27	111	140	120	72	43	53	43	38	82	243	208	303	208	138	122	159	245	169	203	149	228	144	81	49	140
28	46	34	29	17	17	22	14	30	20	13	20	18	17	17	7	9	9	4	27	68	57	104	63	70	31
29	83	138	92	80	85	95	90	117	81	128	121	204	126	79	187	73	301	376	213	164	231	115	84	67	139
Mean	77	76	88	86	88	95	98	97	96	112	109	104	93	91	105	113	118	106	94	84	85	79	73	69	93
5Q Mean	27	23	26	31	33	30	31	33	37	45	35	25	32	34	30	33	33	31	29	25	29	27	30	29	31
5D Mean	129	148	187	134	109	106	108	118	85	168	141	126	134	150	143	135	124	94	89	66	80	93	79	51	116

AL Index (Provisional Hourly mean values, unit nT) February 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
D 1	-25	-18	-12	-18	-55	-143	-71	-52	-148	-112	-176	-150	-48	-132	-327	-721	-923	-791	-335	-420	-174	-522	-406	-675	-269
D 2	-659	-244	-254	-323	-495	-366	-151	-117	-41	-74	-48	-77	-254	-221	-307	-223	-189	-145	-343	-449	-452	-853	-927	-580	-325
D 3	-436	-87	-165	-406	-1066	-830	-530	-899	-501	-248	-146	-71	-127	-245	-434	-353	-176	-72	-20	-507	-591	-390	-242	-73	-359
D 4	-58	-100	-217	-543	-172	-50	-39	-24	-47	-68	-111	-129	-101	-102	-255	-205	-176	-233	-423	-369	-208	-111	-224	-90	-169
Q 5	-86	-41	-25	-20	-31	-18	-76	-139	-54	-86	-158	-42	-30	-49	-116	-40	-32	-94	-32	-25	-44	-18	-15	-17	-51
Q 6	-19	-18	-12	-5	-9	-89	-62	-47	-130	-74	-52	-63	-194	-203	-236	-159	-108	-72	-16	-13	-95	-39	-44	-21	-74
Q 7	-13	-84	-286	-195	-44	-42	-139	-197	-165	-218	-537	-605	-511	-242	-466	-321	-199	-120	-48	-47	-11	-22	-49	-57	-193
D 8	-67	-124	-277	-132	-106	-109	-157	-271	-292	-356	-326	-248	-177	-314	-1312	-1460	-850	-302	6	-52	-95	-64	-45	-40	-278
D 9	-83	-315	-656	-361	-247	-275	-494	-540	-366	-497	-745	-771	-848	-469	-542	-694	-517	-729	-443	-470	-610	-402	-181	-206	-478
Q 10	-107	-77	-127	-56	-80	-98	-44	-56	-40	-31	-126	-184	-447	-450	-783	-691	-196	-31	-20	-85	-275	-42	-20	-29	-171
Q 11	-60	-69	-67	-23	-17	-8	-11	-3	-6	-11	-43	-66	-28	-23	-137	-59	-63	-270	-213	-145	-88	-53	-22	-43	-64
Q 12	-116	-29	-195	-216	-202	-93	-11	-2	-9	-35	-65	-158	-128	-202	-352	-101	-16	-32	-18	-7	-3	-18	-95	-57	-90
Q 13	-163	-28	-18	-59	-210	-274	-166	-225	-157	-241	-31	-76	-23	-18	-17	-18	-26	-10	-7	-11	-20	-42	-20	-15	-78
Q 14	-21	-27	-70	-86	-84	-26	-24	-98	-91	-163	-181	-54	-17	-13	-97	-391	-173	-40	-13	-14	-64	-103	-14	-15	-78
Q 15	-9	-10	-32	-118	-19	-1	1	-19	-88	-26	-9	-11	-76	-37	-40	-79	-8	-4	-16	0	0	-1	-2	-4	-25
Q 16	-6	-3	-1	-29	1	-6	-8	-41	-68	-49	-14	-14	-13	-9	-13	-14	-17	-10	3	6	9	1	-58	-92	-18
Q 17	-37	-9	-1	-21	-13	-1	-28	-37	-165	-258	-180	-156	-293	-418	-17	-14	-16	-19	-5	2	0	0	0	-10	-71
Q 18	-32	-212	-310	-166	-51	-76	-91	-206	-238	-58	-11	-16	-14	-84	-204	-286	-40	-3	-14	-4	0	-3	-14	-87	-92
Q 19	-190	-239	-97	-20	-8	3	-42	-18	-8	0	-186	-139	-80	-23	-36	-89	-100	-90	-95	-248	-125	-63	-272	-218	-99
D 20	-179	-273	-18	-89	-226	-40	-62	-207	-458	-694	-607	-319	-267	-426	-545	-609	-430	-971	-888	-621	-746	-571	-395	-383	-418
D 21	-246	-297	-900	-593	-572	-588	-573	-347	-502	-964	-452	-165	-263	-428	-136	-37	-41	-43	-33	-42	-42	-33	-81	-42	-309
D 22	-51	-187	-527	-382	-256	-170	-271	-305	-191	-96	-184	-148	-219	-192	-134	-141	-109	-87	-117	-108	-228	-273	-95	-35	-188
D 23	-127	-173	-123	-112	-328	-182	-199	-103	-48	-12	-44	-73	-36	-37	-79	-174	-88	-132	-184	-133	-289	-321	-447	-196	-152
D 24	-73	-38	-134	-158	-78	-30	-92	-276	-252	-224	-95	-34	-26	-176	-261	-164	-57	-196	-149	-417	-571	-690	-398	-216	-200
D 25	-534	-871	-474	-328	-389	-181	-202	-206	-442	-529	-439	-491	-110	-125	-193	-490	-251	-390	-420	-267	-422	-199	-392	-255	-358
D 26	-143	-199	-116	-69	-145	-234	-199	-286	-260	-153	-140	-118	-287	-131	-227	-293	-489	-1117	-1005	-744	-805	-868	-745	-363	-381
D 27	-274	-103	-182	-245	-151	-165	-182	-179	-187	-688	-563	-490	-488	-445	-327	-244	-545	-409	-346	-662	-482	-138	-40	-27	-315
D 28	-32	-36	-31	-26	-21	-21	-22	-19	-29	-32	-38	-52	-47	-48	-35	-32	-33	-27	-94	-197	-174	-122	-77	-45	-54
D 29	-52	-143	-37	-38	-119	-26	-27	-27	-31	-144	-456	-711	-298	-346	-806	-753	-589	-814	-631	-471	-373	-147	-49	-84	-299
Mean	-134	-139	-184	-166	-179	-142	-136	-170	-172	-211	-212	-194	-187	-193	-290	-305	-205	-248	-204	-224	-240	-210	-185	-137	-194
5Q Mean	-36	-28	-27	-39	-15	-24	-31	-49	-69	-49	-55	-39	-68	-64	-108	-70	-45	-78	-54	-35	-43	-22	-28	-35	-46
5D Mean	-243	-215	-384	-338	-452	-379	-368	-434	-402	-618	-502	-363	-398	-402	-396	-387	-841	-444	-346	-460	-494	-306	-187	-146	-375

AE Index (Provisional Hourly mean values, unit nT) February 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	90	74	79	98	156	285	255	212	317	287	360	396	203	252	542	1094	1317	1175	617	648	384	656	468	690	444
2	795	347	385	457	575	531	371	211	121	126	89	118	368	328	474	433	376	311	599	602	604	869	896	591	441
D 3	407	169	306	477	1097	844	578	1024	587	291	255	204	240	340	555	437	269	124	112	608	614	492	435	123	441
4	74	135	275	598	257	106	94	64	87	104	143	166	138	115	291	250	212	292	584	514	297	251	339	182	232
Q 5	135	65	43	41	50	38	103	170	71	116	202	61	54	74	156	56	43	46	47	36	56	29	33	31	73
Q 6	37	35	31	23	35	116	92	78	183	136	85	104	260	255	266	207	150	115	58	50	133	66	78	51	110
7	46	137	369	285	132	128	243	308	272	407	729	855	692	473	766	507	368	228	114	90	48	82	112	121	313
8	150	258	405	317	312	254	340	482	594	679	692	655	399	498	1488	1826	724	589	204	174	164	111	125	135	482
D 9	323	570	1018	575	387	521	820	770	375	492	664	748	888	493	633	792	546	890	525	475	603	483	202	327	588
10	217	161	186	186	195	227	106	114	100	67	199	261	501	512	934	914	294	125	81	152	327	68	45	57	251
Q 11	86	103	107	58	61	36	43	26	26	39	66	84	44	53	159	93	107	317	248	184	147	112	62	74	97
12	168	68	269	294	280	144	73	61	46	78	123	225	222	268	481	174	52	53	48	30	24	49	140	98	145
13	227	71	61	119	284	388	302	384	271	344	115	135	50	50	43	50	69	45	40	36	43	60	44	36	136
14	48	56	104	130	133	65	54	136	136	256	278	136	61	64	144	426	215	84	42	40	107	133	43	47	122
Q 15	33	35	62	165	67	46	29	67	125	79	50	36	105	73	73	125	51	32	43	21	19	20	22	25	58
Q 16	28	23	28	72	32	40	45	79	132	105	55	43	45	41	46	46	52	40	26	17	12	24	101	144	53
17	92	49	43	71	57	52	99	124	275	409	323	216	402	571	102	92	58	76	36	26	38	46	57	64	141
18	90	279	389	302	227	173	192	315	384	191	90	79	73	170	260	396	124	68	66	47	48	54	83	134	176
19	274	332	210	94	76	42	129	76	61	52	256	215	143	92	117	136	175	208	202	437	314	230	445	453	199
D 20	473	473	269	269	417	143	177	363	670	1037	794	398	511	825	857	887	664	1029	934	687	880	694	455	381	595
D 21	276	363	967	730	721	707	588	394	542	1182	735	308	332	528	212	97	65	80	62	59	68	55	127	84	387
22	119	271	623	481	427	423	475	622	411	226	317	259	371	325	210	224	179	166	171	164	341	485	263	94	319
23	277	243	236	241	406	295	288	202	122	84	105	119	99	92	143	248	147	177	280	246	469	514	640	392	253
24	183	84	237	225	176	135	211	393	450	509	360	183	143	286	476	321	179	410	359	643	770	715	616	432	354
25	708	1035	569	419	535	422	431	323	619	583	525	635	222	197	298	649	434	589	624	496	566	377	521	306	503
26	202	271	178	158	262	397	328	405	425	299	358	269	444	232	312	440	842	1233	1030	785	843	980	777	582	502
D 27	386	244	302	318	196	218	225	217	270	932	772	794	697	584	450	403	790	579	550	813	712	282	122	77	456
28	78	70	61	44	39	44	36	50	50	46	59	71	65	65	43	41	43	32	122	266	232	227	140	116	85
29	136	281	130	119	205	123	118	145	113	273	578	916	425	427	994	828	891	1191	845	636	605	262	134	151	439
Mean	212	217	273	254	268	239	236	269	270	325	323	299	282	285	397	420	325	355	298	309	326	290	259	206	289
5Q Mean	63	52	54	71	49	55	62	84	107	95	91	65	101	99	140	105	80	110	84	61	73	50	59	65	78
5D Mean	373	363	572	473	563	486	477	553	488	786	644	490	533	554	541	523	466	540	436	528	575	401	268	198	493

A0 Index (Provisional Hourly mean values, unit nT)

February 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	19	18	26	30	21	-1	55	52	9	30	3	46	51	-6	-55	-174	-264	-203	-26	-95	16	-194	-172	-329	-47
2	-261	-70	-61	-94	-207	-100	33	-12	18	-11	-3	-17	-70	-57	-70	-7	-1	9	43	-147	-150	-419	-479	-285	-104
D	-232	-2	-12	-167	-517	-408	-240	-387	-207	-102	-18	30	-7	-74	-156	-133	-41	-10	35	-203	-284	-143	-24	-11	-138
4	-20	-32	-79	-243	-43	2	7	7	-3	-15	-39	-46	-32	-43	-109	-80	-69	-87	-131	-112	-60	13	-54	0	-53
Q	-18	-8	-3	0	-6	0	-23	-54	-18	-28	-57	-11	-3	-11	-37	-12	-10	-10	-8	-6	-16	-3	0	-1	-14
Q	0	0	2	6	7	-31	-15	-7	-38	-5	-9	-11	-64	-75	-103	-56	-33	-14	11	10	-29	-6	-5	4	-19
7	9	-16	-102	-52	20	21	-17	-42	-29	-15	-172	-178	-165	-5	-82	-67	-14	-6	7	-2	12	17	6	3	-36
8	7	3	-74	25	49	16	12	-29	4	-17	18	78	21	-65	-568	-547	11	-7	108	33	-13	-9	16	26	-37
D	77	-30	-147	-73	-53	-15	-84	-154	-178	-251	-412	-397	-404	-222	-225	-297	-244	-284	-180	-232	-308	-160	-79	-42	-183
10	0	2	-33	35	17	14	8	0	8	1	-27	-53	-196	-193	-315	-234	-49	30	19	-9	-111	-8	2	0	-45
Q	-17	-17	-13	5	12	9	9	9	5	7	-10	-23	-6	2	-57	-13	-10	-111	-88	-53	-14	2	8	-5	-15
12	-32	4	-60	-69	-61	-21	25	27	13	3	-4	-45	-18	-68	-111	-14	8	-5	5	7	7	5	-25	-7	-18
13	-49	6	11	0	-67	-79	-15	-33	-22	-70	24	-8	1	6	4	5	7	10	12	6	0	-11	1	3	-10
14	2	0	-18	-21	-17	5	2	-30	-22	-34	-42	13	12	18	-25	-178	-66	1	6	5	-10	-37	6	7	-17
Q	7	7	-1	-35	13	21	16	13	-25	12	14	6	-24	-1	-4	-16	15	11	4	9	9	8	8	7	3
Q	7	7	13	5	17	13	13	-2	-2	2	12	6	8	10	8	7	8	9	17	15	15	13	-7	-19	7
17	8	15	20	13	14	24	20	24	-27	-54	-19	-47	-92	-132	32	30	11	18	12	16	19	22	28	21	0
18	12	-72	-115	-15	61	10	3	-48	-45	36	33	22	20	0	-74	-88	21	30	17	18	24	23	26	-19	-4
19	-53	-73	7	26	29	24	20	19	21	26	-58	-32	-9	21	21	-20	-12	12	4	-30	31	51	-50	8	0
D	56	-37	116	44	-18	30	25	-26	-122	-175	-210	-119	-11	-14	-116	-164	-97	-456	-421	-277	-305	-225	-168	-192	-120
D	-107	-115	-416	-227	-212	-234	-279	-150	-230	-372	-84	-11	-97	-163	-30	11	-9	-3	-2	-12	-8	-6	-17	0	-115
22	7	-51	-215	-140	-43	40	-33	4	13	16	-26	-19	-33	-29	-29	-29	-19	-4	-31	-27	-57	-31	35	10	-28
23	10	-51	-4	7	-125	-35	-55	-3	11	28	6	-13	11	7	-7	-49	-15	-43	-44	-10	-55	-64	-127	0	-25
24	16	3	-15	-45	9	36	12	-80	-26	29	83	56	44	-33	-23	-4	31	7	29	-95	-186	-332	-90	0	-23
25	-180	-353	-189	-118	-121	29	12	-44	-132	-237	-176	-173	0	-26	-43	-165	-34	-95	-108	-20	-138	-10	-131	-102	-106
26	-41	-62	-27	9	-14	-36	-35	-83	-47	-3	38	15	-65	-15	-70	-73	-68	-500	-489	-350	-383	-378	-356	-72	-129
D	-80	18	-31	-86	-53	-55	-68	-70	-51	-221	-176	-92	-139	-152	-101	-42	-149	-120	-71	-256	-126	2	20	10	-87
28	6	0	0	-4	-1	0	-3	5	-4	-9	-8	-16	-14	-15	-13	-11	-11	-11	-33	-64	-58	-8	-7	11	-11
29	14	-2	26	20	-16	34	31	44	24	-8	-167	-252	-85	-133	-309	-339	-143	-218	-208	-153	-71	-16	17	-8	-80
Mean	-28	-31	-48	-40	-45	-23	-19	-36	-38	-49	-51	-44	-47	-50	-91	-95	-42	-70	-55	-70	-77	-65	-55	-33	-50
5Q Mean	-4	-2	0	-3	8	2	0	-8	-15	-2	-10	-6	-17	-15	-38	-18	-6	-23	-12	-5	-7	2	0	-2	-7
5D Mean	-57	-33	-98	-101	-170	-136	-129	-157	-157	-224	-180	-117	-131	-125	-125	-125	-108	-174	-127	-196	-206	-106	-53	-47	-128

AU Index (Provisional Hourly mean values, unit nT)

March

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	51	42	40	49	126	161	211	127	99	98	90	57	59	45	35	8	18	45	51	35	38	31	35	59	67
2	39	30	39	28	27	34	40	29	67	37	105	74	85	43	52	44	34	75	143	68	59	34	28	38	52
3	33	47	56	77	118	56	25	33	14	86	55	126	136	129	50	39	59	119	57	42	24	31	42	37	62
4	22	17	31	22	19	20	18	62	29	25	41	49	85	78	53	129	128	62	95	112	105	101	46	33	58
5	46	42	41	63	88	136	182	144	114	97	51	27	24	27	35	38	102	193	108	48	23	21	64	55	74
Q	85	84	95	34	24	32	67	92	71	23	18	19	19	15	18	16	10	22	34	21	21	33	30	34	38
7	29	24	31	49	31	20	20	20	35	67	29	25	28	23	32	61	173	139	180	131	106	116	186	115	70
8	74	71	87	68	55	88	100	75	49	64	40	28	70	70	43	50	34	41	40	33	29	30	35	40	55
D	74	57	48	56	46	44	32	29	31	92	193	180	94	72	44	207	92	57	195	149	54	49	41	42	82
10	38	39	67	81	89	99	62	61	99	152	92	84	50	35	38	44	61	107	90	94	169	130	92	75	81
11	85	76	58	59	121	180	149	96	117	54	100	196	197	96	89	129	72	159	234	90	49	60	45	63	107
12	44	29	42	88	98	119	164	140	107	86	92	166	72	73	32	59	58	36	21	33	23	36	31	22	70
13	24	20	28	43	29	56	53	51	54	71	81	51	60	37	30	32	22	24	22	24	27	26	26	26	38
Q	24	20	19	19	28	25	33	30	36	34	40	30	24	24	22	22	18	22	27	37	31	31	34	39	28
Q	28	27	25	30	24	27	29	48	87	135	66	55	37	55	55	50	46	61	54	68	45	40	42	43	49
16	38	35	28	27	28	34	35	36	118	216	175	86	121	108	173	223	309	360	371	245	228	166	115	56	139
17	70	70	57	53	53	96	54	31	23	42	98	145	179	114	100	104	184	202	349	312	132	74	71	85	112
18	119	71	37	31	95	82	34	61	35	34	20	20	22	15	3	9	17	10	17	16	24	17	18	20	34
Q	17	16	20	21	21	18	15	14	13	14	11	15	15	14	12	12	9	21	15	23	27	31	27	18	18
Q	21	20	23	23	25	20	22	22	25	21	16	16	15	15	16	18	17	18	19	24	43	22	27	27	21
D	26	25	26	38	28	32	30	28	43	101	171	166	166	285	291	197	266	332	223	218	119	195	197	302	146
22	176	65	157	138	159	151	125	91	39	74	80	101	157	90	113	86	65	82	126	162	187	209	231	247	130
D	220	87	113	152	303	224	226	205	140	113	143	161	250	208	209	67	46	96	178	217	272	166	93	199	170
D	241	148	118	144	134	197	166	129	118	77	187	240	242	173	200	247	257	252	293	201	225	283	163	111	189
25	151	140	141	144	136	154	297	277	147	116	110	109	181	241	133	87	103	74	36	91	116	55	30	23	129
26	18	52	72	57	61	71	47	47	47	77	173	251	126	89	110	108	78	94	162	201	247	170	128	175	111
27	148	110	149	36	76	98	99	64	28	23	19	20	21	50	53	41	45	47	167	209	190	258	205	174	97
28	141	86	64	68	62	152	146	128	127	128	147	171	140	52	68	123	100	111	92	113	201	185	164	90	119
29	115	130	184	116	134	138	260	126	129	209	310	106	89	94	134	269	212	194	241	242	327	268	270	188	187
30	265	214	171	144	139	197	141	111	102	82	75	52	58	40	27	18	15	89	137	209	172	195	174	134	123
31	47	90	119	108	83	50	37	22	20	84	53	76	68	80	94	128	35	43	92	91	101	138	93	62	76
Mean	80	64	70	66	79	90	94	78	69	81	92	93	93	80	76	85	86	102	124	114	110	103	89	85	88
5Q Mean	34	32	37	28	25	30	38	41	39	32	33	26	26	21	19	20	15	21	23	25	29	28	28	30	28
5D Mean	126	77	72	88	112	118	101	84	71	85	158	178	186	170	168	164	169	187	247	219	160	153	113	147	140

AL Index (Provisional Hourly mean values, unit nT)

March

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	-71	-69	-88	-93	-113	-375	-287	-211	-265	-246	-71	-111	-106	-65	-70	-218	-116	-108	-116	-109	-116	-78	-127	-226	-144
2	-154	-183	-173	-207	-31	-37	-134	-189	-160	-124	-176	-301	-209	-71	-122	-196	-65	-186	-419	-145	-73	-37	-59	-127	-149
3	-160	-77	-54	-42	-131	-239	-96	-50	-27	-51	-128	-246	-317	-180	-67	-75	-137	-424	-231	-44	-21	-26	-62	-32	-121
4	-18	-17	-82	-35	-14	-8	-7	-38	-64	-27	-20	-87	-149	-146	-85	-256	-481	-134	-120	-114	-243	-198	-39	-26	-100
5	-107	-84	-42	-74	-146	-161	-85	-95	-124	-244	-158	-88	-29	-33	-25	-43	-213	-452	-264	-39	-13	-17	-57	-183	-116
Q	-135	-281	-49	-18	-15	-14	-100	-296	-120	-7	-13	-10	-9	-13	-15	-12	-18	-42	-99	-77	-23	-15	-32	-51	-61
7	-49	-21	-18	-38	-12	-8	-9	-8	-5	-96	-66	-20	-18	-24	-27	-48	-372	-267	-297	-324	-144	-147	-308	-292	-109
8	-98	-47	-72	-220	-184	-133	-106	-30	-21	-27	-22	-23	-43	-202	-233	-114	-23	-19	-28	-11	-18	-27	-33	-38	-74
9	-55	-156	-144	-59	-114	-60	-37	-51	-39	-47	-390	-243	-89	-162	-189	-394	-291	-96	-328	-490	-68	-28	-34	-42	-150
10	-43	-39	-78	-136	-295	-119	-31	-45	-222	-235	-114	-233	-61	-44	-44	-117	-200	-197	-201	-180	-377	-325	-143	-98	-149
11	-237	-116	-114	-64	-136	-231	-147	-287	-199	-80	-72	-696	-251	-187	-215	-244	-162	-152	-360	-104	-15	-18	-21	-58	-174
12	-31	-33	-84	-207	-254	-262	-205	-331	-315	-150	-91	-193	-89	-103	-56	-195	-90	-18	-15	-19	-49	-28	-11	-15	-119
13	-16	-17	-41	-165	-104	-68	-114	-130	-133	-191	-102	-54	-55	-79	-58	-24	-12	-25	-44	-10	-9	-10	-20	-22	-63
Q	-20	-20	-14	-16	-8	-50	-34	-29	-29	-107	-64	-24	-21	-19	-18	-14	-22	-22	-37	-15	-7	-12	-18	-20	-27
15	-18	-22	-17	-8	-6	-7	-29	-31	-65	-293	-99	-44	-32	-20	-53	-81	-148	-175	-60	-61	2	-7	-13	-17	-54
16	-18	-13	-14	-9	-5	0	0	0	-97	-352	-189	-87	-176	-204	-410	-259	-284	-348	-355	-190	-191	-275	-150	-22	-152
17	-66	-144	-35	-91	-29	-108	-76	-32	-11	-21	-37	-59	-98	-112	-116	-97	-188	-117	-209	-339	-102	-41	-41	-42	-92
18	-92	-168	-50	-30	-84	-95	-21	-42	-17	-26	-23	-22	-30	-25	-31	-23	-35	-36	-26	-23	-28	-25	-33	-35	-42
Q	-32	-32	-29	-26	-22	-17	-16	-19	-26	-29	-33	-34	-37	-27	-24	-25	-32	-37	-37	-29	-20	-28	-29	-31	-28
Q	-36	-33	-23	-24	-24	-18	-15	-20	-17	-22	-29	-33	-37	-32	-22	-22	-25	-24	-19	-18	-36	-14	-22	-30	-25
D	-30	-28	-23	-27	-25	-17	-18	-16	-6	-12	-316	-335	-269	-496	-668	-312	-259	-492	-413	-299	-192	-181	-330	-210	-207
22	-128	-280	-261	-127	-150	-174	-61	-22	-16	-45	-133	-173	-164	-95	-141	-180	-140	-215	-331	-414	-392	-303	-240	-153	-181
D	-133	-350	-443	-217	-222	-161	-184	-142	-275	-101	-93	-187	-217	-337	-323	-89	-33	-103	-273	-636	-421	-75	-73	-328	-226
D	-256	-97	-77	-328	-203	-131	-149	-217	-138	-76	-249	-226	-284	-311	-311	-450	-408	-303	-340	-269	-355	-400	-121	-120	-242
25	-185	-237	-423	-301	-300	-207	-172	-212	-62	-71	-81	-151	-369	-415	-219	-129	-105	-86	-41	-65	-207	-63	-25	-32	-173
26	-39	-51	-129	-195	-117	-25	-18	-17	-41	-56	-156	-359	-148	-65	-190	-279	-202	-97	-173	-279	-482	-118	-80	-135	-144
27	-106	-63	-69	-25	-27	-42	-86	-58	-15	-21	-25	-26	-29	-48	-90	-165	-59	-48	-185	-438	-298	-469	-278	-152	-118
28	-236	-97	-36	-31	-51	-209	-180	-109	-79	-160	-225	-154	-144	-37	-171	-266	-137	-166	-180	-78	-143	-289	-120	-49	-139
29	-150	-307	-183	-251	-240	-274	-135	-76	-130	-296	-219	-41	-66	-187	-274	-471	-257	-229	-226	-465	-340	-251	-207	-199	-238
30	-234	-166	-107	-93	-187	-112	-74	-68	-42	-22	-38	-24	-38	-45	-28	-9	-16	-111	-178	-341	-230	-177	-173	-87	-108
31	-388	-203	-146	-130	-46	-28	-37	-39	-42	-19	-56	-88	-55	-77	-199	-254	-114	-50	-50	-36	-44	-180	-192	-82	-106
Mean	-107	-111	-100	-106	-106	-109	-85	-93	-90	-104	-112	-141	-117	-124	-144	-163	-149	-154	-182	-182	-150	-124	-99	-95	-123
5Q Mean	-47	-76	-31	-49	-34	-33	-55	-98	-65	-71	-48	-31	-31	-34	-27	-19	-21	-30	-47	-29	-19	-15	-24	-30	-40
5D Mean	-108	-155	-144	-144	-118	-95	-92	-91	-93	-51	-217	-210	-191	-283	-321	-268	-235	-222	-312	-406	-227	-145	-119	-148	-183

AE Index (Provisional Hourly mean values, unit nT)

March

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	123	111	130	143	240	538	498	339	365	345	163	168	166	112	106	228	136	154	169	146	155	111	163	287	212
2	195	215	213	236	59	72	175	219	228	161	281	376	295	115	175	241	100	262	563	214	132	73	88	166	202
3	194	125	111	120	250	296	122	84	42	138	183	373	455	311	119	115	198	543	290	87	45	59	106	70	185
4	42	35	115	59	35	29	26	102	94	54	62	137	234	225	139	386	610	197	216	228	348	300	86	60	159
5	155	128	85	138	235	298	268	240	240	341	210	116	54	62	61	82	317	647	373	88	37	39	122	240	191
Q	221	366	145	54	40	48	169	389	191	30	32	30	29	29	35	29	30	65	134	99	45	48	64	86	100
7	79	46	51	88	45	29	30	29	40	164	96	46	47	47	61	110	546	407	479	457	251	265	495	407	180
8	174	119	160	290	240	222	208	106	71	93	63	51	114	272	276	165	58	61	69	45	47	58	69	79	130
D	131	214	192	116	161	105	70	81	71	140	584	424	184	235	234	602	384	154	523	640	123	78	76	85	234
10	82	79	146	218	385	219	94	107	322	388	207	318	112	80	84	162	262	305	292	276	548	457	236	174	231
11	323	193	173	124	258	412	297	384	317	135	173	894	449	285	305	374	235	312	595	196	65	79	67	122	282
12	76	63	127	297	353	383	370	472	424	237	185	361	162	177	89	256	150	56	37	53	72	64	43	38	189
13	41	39	71	210	135	125	168	182	188	283	183	105	116	118	89	57	35	35	67	35	36	37	46	49	102
Q	45	40	34	36	37	77	69	60	66	142	104	55	47	44	42	38	42	45	64	53	38	44	52	59	56
14	47	50	43	40	31	36	59	80	154	429	167	100	70	76	109	132	195	237	115	129	42	47	55	60	104
15	57	48	43	38	33	34	34	35	217	569	365	174	298	313	584	483	594	709	728	436	421	442	266	80	292
16	137	214	93	146	84	205	132	64	35	65	136	205	279	227	217	202	374	321	560	652	235	116	112	128	206
17	212	240	89	62	180	179	56	104	53	61	43	42	53	40	35	33	53	47	43	40	53	42	51	56	78
18	50	48	51	49	44	36	32	34	40	44	45	51	53	42	37	39	42	58	52	53	48	59	57	59	47
Q	58	53	47	49	50	39	37	42	43	43	46	50	54	48	40	42	43	43	39	43	79	37	49	58	47
19	56	53	51	67	54	50	49	45	50	114	488	501	436	782	959	509	526	825	637	518	312	378	528	513	354
D	304	346	419	266	310	325	187	114	56	120	214	275	321	187	255	267	206	298	459	577	580	513	472	401	311
20	354	438	558	370	525	386	410	348	415	215	237	350	469	545	533	157	81	200	452	854	695	242	167	528	397
D	498	246	196	473	338	329	316	346	257	154	438	467	527	485	512	697	667	557	634	471	581	684	286	233	433
21	338	378	565	446	438	361	471	491	210	188	192	260	550	657	352	216	210	161	79	157	324	119	56	57	303
22	58	105	202	253	180	97	66	64	89	134	331	612	276	155	301	387	282	192	335	481	729	290	209	311	256
23	255	175	220	62	104	141	186	123	44	45	45	46	50	99	144	208	105	96	353	649	490	728	484	327	216
24	378	185	101	101	114	362	327	238	207	289	373	325	285	90	240	390	239	278	272	192	346	475	284	140	260
25	266	438	368	367	375	413	397	204	260	506	529	147	156	282	408	742	470	424	468	708	668	521	478	387	416
26	499	382	279	238	327	309	217	180	145	105	114	77	97	86	55	28	31	201	316	551	403	374	348	222	233
27	436	294	265	240	130	79	75	61	63	103	110	165	124	159	293	383	151	94	143	127	146	319	287	145	183
28	189	176	172	174	186	201	181	173	161	187	206	235	211	205	222	250	237	258	308	298	261	228	190	181	212
29	83	109	69	79	61	65	95	141	105	104	82	58	59	56	48	41	38	52	71	56	49	45	53	62	70
30	235	233	218	234	232	215	195	176	165	137	376	389	379	454	491	433	406	411	561	627	389	299	233	297	324
31																									
Mean																									
5Q Mean																									
5D Mean																									

AO Index (Provisional Hourly mean values, unit nT)

March

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	-9	-13	-23	-21	6	-106	-37	-41	-82	-74	9	-26	-23	-9	-16	-104	-48	-31	-32	-36	-38	-23	-46	-83	-38
2	-56	-75	-66	-88	-2	-1	-46	-79	-45	-42	-35	-113	-61	-13	-34	-75	-15	-55	-138	-37	-6	-1	-15	-44	-48
3	-63	-13	1	16	-6	-90	-35	-8	-5	17	-36	-59	-89	-24	-7	-16	-38	-152	-86	-1	1	2	-9	2	-29
4	1	0	-24	-6	1	5	4	11	-17	-1	9	-18	-31	-33	-15	-63	-176	-35	-12	-1	-68	-47	3	3	-21
5	-29	-20	0	-5	-28	-12	47	23	-5	-73	-52	-30	-2	-2	4	-2	-55	-129	-78	4	4	1	3	-63	-20
Q	-24	-97	22	7	3	8	-16	-101	-24	7	2	4	4	1	1	2	-3	-9	-32	-27	0	8	-1	-7	-11
7	-9	1	5	4	9	5	4	5	14	-14	-17	1	4	0	2	6	-99	-63	-57	-96	-18	-15	-60	-88	-19
8	-11	11	7	-75	-64	-22	-3	21	12	17	7	2	13	-65	-94	-31	5	10	5	10	5	1	0	0	-9
D	9	-49	-47	-1	-33	-8	-2	-10	-4	22	-97	-31	2	-44	-72	-93	-98	-19	-66	-170	-7	10	2	0	-33
10	-2	0	-4	-26	-102	-10	14	7	-61	-40	-11	-74	-5	-3	-2	-36	-69	-44	-55	-42	-103	-97	-25	-11	-33
11	-75	-19	-27	-2	-7	-25	0	-95	-41	-12	13	-249	-26	-44	-62	-56	-44	3	-62	-7	16	20	11	1	-33
12	5	-1	-20	-59	-77	-71	-20	-94	-103	-31	0	-13	-8	-15	-11	-67	-16	8	3	6	-12	3	9	3	-24
Q	13	3	0	-6	-60	-37	-6	-29	-39	-59	-10	-1	2	-20	-13	3	4	0	-10	6	8	7	2	1	-12
Q	14	1	0	1	0	9	-12	0	3	-35	-12	2	1	2	1	2	-1	0	-4	10	11	9	7	9	0
15	4	1	3	10	8	9	0	8	10	-78	-16	5	1	16	0	-15	-50	-56	-2	3	23	15	14	12	-2
16	9	9	6	8	10	16	17	18	10	-67	-6	0	-26	-47	-118	-17	11	5	8	26	17	-53	-17	16	-6
D	17	1	-36	10	-18	11	-6	-11	0	5	9	30	42	40	1	-8	3	-2	42	69	-13	14	15	14	21
18	13	-48	-6	0	5	-6	6	9	8	3	-1	-1	-3	-4	-13	-6	-8	-12	-4	-3	-2	-3	-7	-7	-3
Q	19	-7	-7	-4	-2	0	0	0	-2	-5	-7	-10	-8	-10	-5	-5	-10	-7	-10	-2	2	0	-1	-1	-4
Q	20	-6	-5	0	0	0	0	3	1	3	0	-6	-8	-10	-7	-2	-1	-3	-2	0	2	3	1	-1	-1
D	21	-1	-1	1	4	1	7	5	18	44	-72	-83	-50	-105	-188	-57	3	-79	-94	-40	-36	6	-66	45	-30
22	23	-106	-52	5	4	-11	31	33	10	14	-26	-36	-3	-2	-14	-46	-36	-65	-101	-125	-102	-46	-4	46	-25
D	23	43	-131	-164	-32	40	31	20	30	-67	5	24	-13	16	-63	-56	-10	6	-3	-47	-209	-74	44	9	-64
D	24	-7	24	19	-91	-34	32	8	-43	-10	0	-30	7	-20	-68	-55	-101	-75	-24	-23	-33	-64	-57	20	-4
25	-16	-48	-140	-78	-81	-26	61	31	42	22	14	-20	-93	-87	-42	-20	-1	-6	-2	12	-45	-4	2	-3	-22
26	-9	0	-27	-68	-28	21	13	14	2	10	7	-53	-10	11	-39	-85	-61	-2	-5	-39	-117	25	23	19	-16
27	20	23	39	5	23	27	5	3	6	1	-2	-2	-3	0	-18	-61	-6	0	-9	-114	-53	-105	-36	10	-10
28	-47	-5	13	17	5	-28	-17	8	23	-15	-38	8	-1	7	-51	-71	-18	-26	-43	17	28	-51	21	19	-10
29	-17	-88	0	-67	-51	-67	61	24	0	-43	44	31	11	-45	-69	-100	-22	-17	7	-110	-6	8	31	-5	-20
30	14	23	31	25	-23	42	32	20	29	29	17	13	9	-2	0	4	0	-11	-20	-65	-29	8	0	22	7
31	-169	-56	-13	-11	17	10	0	-7	-10	31	-1	-6	6	1	-52	-62	-38	-3	20	27	27	-20	-49	-9	-15
Mean	-13	-23	-15	-19	-13	-9	3	-8	-10	-11	-9	-23	-11	-21	-33	-38	-31	-25	-28	-33	-20	-10	-5	-5	-17
5Q Mean	-6	-21	2	-11	-5	-2	-8	-28	-12	-18	-7	-2	-2	-5	-3	0	-2	-3	-11	-2	4	5	1	0	-5
5D Mean	9	-38	-36	-27	-3	11	4	-3	-11	16	-29	-15	-2	-55	-75	-51	-33	-16	-32	-93	-33	3	-4	0	-21

AU Index (Provisional Hourly mean values, unit nT)

April 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
D	45	33	63	36	154	177	141	235	271	144	185	88	84	30	35	34	26	22	19	12	17	20	20	19	80
	31	43	25	14	14	15	26	38	45	30	22	17	13	13	13	30	76	181	221	247	164	84	44	46	60
D	32	23	22	26	25	58	123	215	207	202	277	186	252	371	338	355	355	309	133	74	75	59	23	22	157
	38	24	26	31	25	49	19	16	27	167	265	149	144	51	5	24	31	37	59	106	50	16	29	59	60
D	91	44	28	41	28	18	32	22	40	81	158	122	175	75	117	84	36	24	25	59	77	94	160	113	73
	107	69	36	104	230	208	275	270	149	108	43	50	35	32	36	62	143	89	44	59	47	37	29	25	95
D	45	45	30	160	78	92	143	196	277	199	118	115	53	86	107	99	112	142	92	58	77	36	35	31	101
D	85	49	47	114	129	70	106	60	99	126	174	299	123	50	56	35	55	77	245	194	65	54	42	26	99
	23	24	32	35	28	23	32	47	33	58	75	49	43	40	54	24	42	31	29	23	42	55	85	83	42
Q	48	39	43	23	52	62	41	50	34	30	38	57	52	58	25	17	19	18	23	23	17	15	19	20	34
	39	29	17	12	20	16	15	9	11	12	14	10	12	11	23	19	16	13	16	14	12	13	18	19	16
Q	18	17	14	19	20	23	21	17	20	26	29	31	35	38	51	36	18	25	24	23	24	20	19	20	24
	18	14	26	22	22	18	88	69	51	30	28	88	134	40	33	27	30	21	19	34	29	37	25	25	39
	28	14	22	27	23	26	29	29	44	38	57	30	34	25	25	23	25	58	38	18	50	34	32	46	33
Q	169	69	41	43	27	23	14	13	16	26	88	54	41	32	36	22	17	32	42	91	60	57	39	25	45
	19	15	13	12	13	11	13	12	13	19	20	22	56	84	59	28	31	31	22	20	20	23	23	19	25
Q	14	16	14	14	12	9	9	9	12	18	17	14	12	9	19	46	42	19	15	24	13	13	21	40	18
	24	26	24	25	31	31	47	77	131	218	268	319	247	264	341	142	91	45	69	140	225	197	205	158	139
	76	152	206	168	156	182	160	167	155	105	139	115	70	66	50	39	103	179	270	386	353	256	266	200	167
D	231	159	146	127	207	177	33	39	121	219	242	262	185	166	236	151	216	204	297	325	274	216	254	176	194
	77	72	133	195	178	117	50	92	62	111	38	28	54	104	77	112	140	73	50	32	25	20	13	19	78
	61	130	158	164	189	204	167	196	302	340	314	253	159	126	153	184	187	206	162	181	242	225	207	162	195
23	100	92	42	19	11	8	9	17	19	18	18	18	23	19	63	52	152	202	100	46	73	137	188	137	65
	66	114	177	241	273	199	64	33	76	152	153	106	68	43	40	150	218	169	179	194	132	93	64	43	127
25	66	117	137	284	149	46	22	106	107	82	83	116	151	92	57	77	47	21	14	33	112	159	144	154	99
	230	185	144	203	232	105	58	88	53	55	116	82	68	38	19	22	30	40	116	299	161	37	31	45	102
27	82	69	29	16	12	32	94	49	54	33	23	19	50	99	129	99	85	132	181	200	178	149	150	198	90
28	205	177	70	38	65	153	144	83	176	170	83	154	138	182	106	71	45	62	66	49	47	46	38	35	100
29	32	32	30	76	23	16	26	101	112	31	32	43	68	45	35	20	18	33	91	134	162	86	60	58	57
30	57	73	93	45	106	90	110	88	94	67	158	191	131	52	54	42	33	35	27	30	41	32	33	29	71
Mean	71	65	63	77	84	75	70	81	93	98	108	103	90	78	79	70	81	84	89	104	95	77	77	68	82
5Q Mean	27	23	20	16	23	24	19	19	18	21	23	26	33	40	35	29	25	21	20	20	17	16	20	23	23
5D Mean	100	69	56	106	133	121	136	156	170	170	170	182	129	141	154	140	176	164	162	142	107	80	76	56	129

AL Index (Provisional Hourly mean values, unit nT)

April

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	-45	-35	-44	-79	-209	-371	-347	-313	-128	-41	-246	-180	-31	-30	-41	-53	-22	-18	-17	-16	-15	-13	-17	-22	-97
2	-18	-22	-25	-26	-24	-26	-32	-30	-32	-48	-57	-49	-44	-45	-43	-58	-109	-265	-482	-215	-93	-34	-30	-31	-77
D 3	-33	-30	-24	-25	-21	-27	-120	-342	-373	-235	-450	-426	-460	-797	-595	-647	-632	-610	-138	-69	-90	-139	-72	-70	-268
4	-86	-41	-42	-27	-27	-56	-34	-37	-43	-140	-449	-481	-207	-132	-88	-79	-87	-43	-54	-95	-37	-23	-39	-57	-100
5	-242	-128	-42	-42	-25	-26	-20	-55	-37	-50	-229	-187	-265	-210	-261	-265	-126	-90	-45	-52	-63	-90	-556	-359	-144
D 6	-268	-247	-131	-174	-493	-479	-473	-469	-156	-113	-148	-80	-110	-86	-43	-69	-197	-204	-122	-30	-16	-23	-27	-36	-175
D 7	-52	-89	-63	-228	-331	-207	-185	-211	-432	-253	-160	-276	-95	-107	-238	-117	-171	-294	-109	-81	-154	-47	-24	-59	-166
D 8	-243	-147	-154	-184	-253	-132	-163	-67	-83	-337	-554	-467	-425	-155	-58	-109	-245	-180	-463	-319	-39	-21	-18	-7	-201
9	-20	-44	-70	-74	-79	-30	-34	-49	-34	-103	-141	-97	-41	-53	-55	-105	-184	-75	-24	-21	-36	-39	-122	-69	-67
Q 10	-29	-54	-55	-32	-116	-76	-34	-35	-40	-40	-45	-35	-26	-57	-63	-21	-24	-29	-8	-13	-12	-11	-15	-26	-37
Q 11	-41	-31	-39	-31	-30	-29	-33	-36	-34	-40	-39	-33	-31	-28	-29	-37	-24	-17	-15	-13	-17	-14	-21	-28	-29
Q 12	-35	-35	-32	-33	-30	-24	-29	-30	-31	-37	-37	-31	-28	-18	-18	-35	-43	-14	-8	-12	-12	-8	-20	-30	-26
13	-27	-25	-26	-24	-22	-61	-97	-145	-123	-26	-32	-39	-248	-101	-32	-32	-36	-24	-14	-30	-13	-15	-19	-27	-51
14	-32	-29	-45	-40	-27	-76	-27	-43	-79	-64	-42	-39	-30	-22	-19	-28	-39	-67	-112	-34	-17	-12	-15	-29	-40
15	-115	-178	-34	-31	-23	-26	-30	-33	-35	-42	-60	-39	-27	-16	-13	-13	-22	-30	-79	-123	-62	-14	-11	-20	-45
Q 16	-25	-25	-23	-20	-23	-28	-32	-42	-38	-44	-43	-39	-32	-115	-122	-66	-48	-20	-16	-14	-14	-16	-16	-24	-37
Q 17	-30	-31	-27	-34	-35	-30	-29	-38	-36	-41	-43	-40	-35	-38	-36	-51	-127	-45	-17	-20	-21	-29	-30	-29	-37
18	-28	-26	-27	-29	-26	-22	-26	-85	-364	-439	-324	-272	-319	-369	-451	-190	-129	-43	-52	-130	-255	-149	-114	-222	-170
19	-260	-120	-151	-91	-223	-160	-98	-183	-250	-45	-45	-91	-141	-97	-59	-54	-146	-262	-466	-481	-521	-448	-235	-254	-203
D 20	-291	-64	-186	-317	-321	-133	-63	-46	-103	-406	-323	-253	-163	-154	-207	-223	-279	-283	-482	-375	-344	-152	-123	-153	-227
21	-120	-61	-78	-238	-150	-71	-24	-26	-60	-58	-48	-39	-33	-64	-112	-120	-184	-103	-11	-8	-10	-20	-28	-26	-71
22	-46	-153	-322	-291	-270	-178	-135	-204	-245	-129	-242	-188	-200	-191	-292	-340	-159	-126	-122	-132	-290	-223	-152	-104	-197
23	-68	-106	-49	-42	-28	-26	-27	-28	-34	-39	-38	-33	-33	-34	-59	-81	-191	-306	-274	-92	-49	-104	-250	-121	-88
24	-50	-63	-383	-426	-331	-138	-40	-26	-33	-145	-176	-93	-65	-25	-39	-225	-400	-364	-272	-277	-133	-138	-164	-51	-169
25	-49	-109	-211	-185	-143	-33	-18	-51	-189	-100	-55	-57	-133	-168	-100	-127	-154	-101	-19	-17	-71	-198	-178	-94	-107
26	-161	-123	-110	-131	-112	-46	-11	-24	-105	-53	-56	-131	-78	-38	-50	-48	-74	-59	-88	-330	-220	-27	-32	-39	-89
27	-53	-64	-35	-29	-21	-18	-48	-62	-47	-40	-37	-32	-34	-145	-304	-341	-184	-261	-246	-184	-139	-181	-124	-143	-116
28	-158	-112	-37	-31	-48	-112	-131	-63	-133	-228	-55	-94	-391	-373	-232	-91	-61	-49	-70	-92	-12	-5	-18	-18	-109
29	-23	-18	-28	-29	-22	-31	-29	-46	-140	-42	-35	-25	-17	-19	-58	-22	-8	-6	-74	-81	-121	-102	-50	-38	-44
30	-31	-94	-164	-73	-82	-140	-115	-115	-58	-17	-48	-160	-149	-135	-44	-7	-6	-10	-3	0	-3	-9	-14	-21	-62
Mean	-89	-76	-88	-100	-118	-93	-82	-97	-116	-113	-141	-133	-129	-127	-125	-121	-137	-133	-130	-111	-95	-76	-84	-73	-108
5Q Mean	-32	-35	-35	-30	-46	-37	-31	-36	-35	-40	-41	-35	-30	-51	-53	-42	-53	-25	-12	-14	-15	-15	-20	-27	-33
5D Mean	-177	-115	-111	-185	-283	-195	-200	-227	-229	-268	-327	-300	-250	-259	-228	-233	-304	-314	-262	-174	-128	-76	-52	-65	-207

AE Index (Provisional Hourly mean values, unit nT)

April 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	91	69	109	116	364	549	488	549	400	187	433	268	116	61	77	88	49	41	37	29	33	34	38	43	178
2	50	66	51	41	39	41	48	57	70	93	87	72	62	59	58	89	186	447	703	463	259	119	75	78	138
D	65	54	47	52	47	86	243	558	580	439	729	614	713	1169	934	1003	987	920	271	143	166	199	96	93	425
4	126	66	69	59	54	107	54	54	71	308	715	631	351	183	94	104	119	81	114	202	87	40	69	117	162
5	334	173	71	84	55	45	53	79	78	133	388	310	441	287	378	350	164	116	71	111	141	184	717	473	218
D	377	317	168	279	724	687	748	740	306	223	192	131	146	119	80	132	341	294	167	90	64	60	57	63	271
D	98	135	94	389	411	301	329	408	710	453	280	392	149	195	346	216	284	437	202	140	233	83	60	91	268
D	329	196	203	300	384	203	271	128	183	463	729	767	549	205	115	146	301	257	709	514	105	76	62	35	301
9	44	68	103	110	108	54	68	98	68	162	216	147	86	94	109	130	227	107	54	45	80	96	208	153	110
Q	79	94	100	57	169	140	76	86	75	71	83	92	78	116	89	40	44	48	32	37	30	28	35	48	73
Q	82	61	57	45	51	46	49	47	46	52	54	44	44	40	53	56	40	30	32	29	30	28	40	49	46
Q	54	53	47	53	51	49	52	49	52	64	66	63	63	57	70	73	61	39	32	36	37	30	40	51	52
13	47	40	53	47	45	80	186	216	175	57	60	127	383	141	65	60	67	46	34	65	43	53	45	54	91
14	61	52	73	64	54	106	58	88	118	122	73	73	55	48	41	53	65	125	152	54	69	47	47	76	74
15	285	248	76	75	51	50	45	47	51	68	149	94	68	49	50	36	40	62	122	215	123	72	51	45	91
Q	46	41	36	34	37	40	47	55	52	64	64	62	89	200	181	95	79	52	39	35	35	40	41	44	63
Q	45	47	43	49	48	41	39	47	49	59	61	54	48	48	56	97	169	65	33	45	35	43	51	70	56
18	53	53	52	56	58	54	74	164	495	658	593	566	633	793	333	221	89	122	271	481	347	319	380	311	
19	337	273	358	261	380	343	258	351	406	150	186	208	212	163	109	94	250	442	736	867	874	705	501	454	372
D	522	224	333	445	528	310	97	85	225	626	565	516	349	321	444	375	496	487	780	701	619	369	377	330	422
21	199	135	212	434	329	189	75	120	123	170	86	67	88	169	191	233	326	177	62	41	36	41	41	47	150
22	108	283	482	456	459	383	303	400	547	470	558	442	360	318	446	526	346	332	286	314	532	449	359	268	393
23	169	198	91	61	39	35	38	46	54	57	57	52	57	54	122	133	343	509	376	140	123	242	439	259	154
24	118	178	561	667	604	339	105	60	110	298	330	200	133	69	80	376	619	533	452	472	267	232	239	94	297
25	116	226	349	471	294	80	41	158	297	183	139	174	285	262	158	204	202	122	34	51	184	358	323	250	207
26	392	309	256	335	346	152	69	113	158	108	173	214	147	77	70	70	104	100	204	630	382	65	64	85	193
27	137	134	64	45	34	51	143	112	102	73	60	52	85	244	434	442	271	394	428	386	319	331	275	343	207
28	364	290	108	70	114	267	276	147	310	399	139	248	531	556	338	163	108	112	137	143	59	52	57	53	210
29	56	50	59	107	46	48	56	147	253	74	68	68	85	65	94	43	27	39	167	216	285	189	111	98	102
30	89	168	258	118	189	232	227	205	153	84	207	352	280	187	99	51	40	46	30	29	45	43	48	51	135
Mean	162	143	152	179	203	170	153	180	210	212	251	237	220	206	205	193	219	218	220	217	192	155	162	143	192
5Q Mean	61	59	56	47	71	63	52	56	54	62	65	63	64	92	89	72	78	46	33	36	33	33	41	52	57
5D Mean	278	185	169	293	418	317	337	383	400	440	499	484	381	401	383	374	481	479	425	317	237	157	130	122	337

AO Index (Provisional Hourly mean values, unit nT) April 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
D	0	0	9	-21	-26	-96	-102	-38	71	51	-30	-45	26	0	-2	-9	1	1	0	-1	0	2	1	-1	-8
	5	9	0	-5	-4	-5	-8	-1	2	-1	-12	-13	-13	-15	-14	-13	-16	-41	-129	16	35	24	6	7	-7
	0	-2	0	0	2	15	1	-62	-82	-16	-86	-119	-103	-212	-128	-145	-137	-150	-2	2	-7	-39	-23	-23	-55
	-22	-8	-7	2	0	-3	-7	-9	-7	13	-91	-165	-31	-40	-40	-26	-27	-2	2	5	6	-3	-4	0	-19
	-75	-41	-6	0	1	-4	6	-16	1	15	-35	-32	-44	-66	-71	-90	-44	-32	-9	3	6	2	-197	-122	-35
D	-79	-88	-47	-34	-130	-135	-98	-98	-3	-2	-52	-14	-37	-26	-2	-3	-26	-57	-38	13	14	6	0	-5	-39
D	-3	-21	-15	-33	-125	-56	-21	-7	-77	-26	-20	-80	-20	-10	-64	-9	-29	-75	-8	-11	-37	-5	5	-13	-32
D	-78	-48	-53	-34	-61	-30	-28	-3	7	-105	-189	-83	-150	-51	0	-36	-94	-51	-108	-62	12	16	11	9	-50
	1	-9	-18	-19	-24	-3	0	-1	0	-21	-32	-23	0	-6	0	-39	-70	-20	2	0	3	7	-17	6	-11
Q	8	-8	-5	-4	-31	-6	3	7	-2	-4	-3	10	12	0	-18	-1	-1	-5	6	4	1	1	1	-2	-1
Q	-1	0	-10	-8	-4	-6	-8	-12	-11	-13	-11	-10	-9	-7	-2	-8	-3	-1	0	0	-2	0	-1	-4	-5
Q	-7	-8	-7	-6	-4	0	-3	-5	-4	-4	-3	0	3	9	16	0	-12	5	8	5	5	5	0	-4	0
	-4	-5	0	0	0	-21	-4	-37	-35	2	-1	24	-56	-29	0	-2	-2	-1	2	2	7	10	2	0	-6
	-1	-2	-8	-8	0	-23	1	0	-19	-2	-5	-2	-2	1	0	-2	-6	-4	-36	-7	16	10	8	8	-3
	27	-54	2	5	1	-1	-7	-9	-8	-7	13	7	6	7	11	3	-2	0	-18	-15	0	21	13	2	0
Q	-2	-4	-4	-3	-4	-8	-8	-14	-11	-12	-10	-7	11	-15	-31	-18	-8	5	2	2	2	3	3	-1	-5
Q	-7	-6	-5	-9	-10	-10	-9	-14	-11	-10	-11	-12	-11	-13	-8	-1	-41	-12	0	2	-3	-7	-4	5	-9
	-1	0	-1	-1	2	4	10	-4	-116	-109	-28	23	-35	-52	-54	-23	-18	1	8	5	-14	24	45	-31	-15
	-91	15	27	38	-32	10	30	-8	-46	29	46	11	-35	-14	-4	-6	-21	-40	-97	-47	-84	-95	15	-27	-17
D	-29	47	-20	-94	-56	21	-14	-3	8	-93	-39	4	11	6	14	-35	-30	-38	-91	-24	-34	31	64	11	-16
	-20	5	26	-21	14	22	12	32	0	26	-4	-5	10	19	-17	-3	-21	-14	19	11	7	0	-7	-2	3
	7	-11	-81	-63	-40	12	15	-3	28	105	35	32	-19	-31	-68	-77	13	39	19	24	-23	1	26	28	-1
	15	-6	-3	-11	-7	-8	-8	-5	-6	-9	-9	-7	-4	-7	2	-13	-19	-51	-86	-22	11	16	-30	8	-11
	7	25	-102	-92	-29	30	11	3	20	3	-11	6	1	9	0	-36	-89	-96	-45	-40	0	-21	-49	-3	-20
	8	4	-36	49	3	6	1	27	-40	-9	13	28	9	-37	-21	-24	-52	-39	-2	7	20	-19	-16	29	-3
	33	31	16	35	59	29	23	31	-25	0	29	-24	-4	0	-15	-12	-21	-9	13	-15	-29	4	0	2	6
	14	2	-3	-6	-4	7	22	-6	3	-2	-6	-6	7	-22	-86	-120	-48	-63	-31	8	19	-15	12	27	-12
	23	32	15	3	8	20	6	9	20	-28	13	29	-125	-94	-62	-9	-7	6	-2	-20	16	20	9	8	-4
	4	6	0	23	0	-7	-1	27	-13	-4	0	8	24	12	-10	0	4	13	8	26	20	-7	4	9	6
	12	-10	-34	-13	11	-24	-2	-13	17	24	53	15	-8	-40	4	16	13	12	11	15	18	10	8	3	4
Mean	-8	-5	-12	-11	-16	-9	-6	-7	-11	-6	-16	-15	-19	-24	-22	-24	-27	-23	-20	-3	0	0	-3	-2	-12
5Q Mean	-1	-5	-6	-6	-10	-6	-5	-7	-7	-8	-7	-3	1	-5	-8	-5	-13	-1	3	2	0	0	0	-1	-4
5D Mean	-37	-22	-27	-39	-74	-37	-32	-34	-29	-48	-77	-58	-59	-58	-36	-45	-63	-74	-49	-16	-10	1	11	-4	-38

AU Index (Provisional Hourly mean values, unit nT)

May

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	26	36	29	35	80	78	158	216	89	43	36	44	34	49	45	99	85	61	72	324	191	121	72	122	89
2	87	57	59	33	74	220	156	62	39	41	20	42	40	30	33	37	37	67	71	65	53	36	34	30	59
3	26	36	32	58	36	78	86	52	35	79	88	99	114	111	111	81	73	116	184	168	69	49	49	102	80
4	177	193	169	262	316	269	260	205	190	369	222	164	119	149	155	260	262	121	60	37	33	47	84	56	174
5	49	59	33	110	89	64	40	23	31	54	125	113	97	84	77	43	40	41	42	44	41	38	30	25	58
Q	23	21	17	14	14	17	16	29	54	103	55	31	49	37	36	28	31	31	36	39	45	43	36	51	36
7	46	40	39	40	34	24	36	38	51	47	50	72	145	123	65	115	103	210	260	294	222	219	280	304	119
D	308	316	266	296	331	445	368	500	364	182	264	289	367	517	568	428	281	362	287	363	320	186	228	158	333
D	113	122	168	221	220	186	184	73	62	141	150	201	160	128	127	330	331	179	365	326	701	535	272	484	241
D	436	363	358	743	347	369	493	222	-7	-6	-96	-46	102	109	48	104	371	191	97	172	2	116	84	124	196
D	116	238	304	345	260	239	214	209	160	205	174	204	212	255	287	253	252	177	187	243	304	249	161	246	229
12	190	177	164	144	106	86	124	99	148	133	110	123	144	180	118	107	50	81	144	205	157	145	129	133	133
13	141	168	167	90	258	335	333	282	252	184	226	219	413	347	333	239	183	179	176	123	93	129	231	225	222
Q	131	50	39	72	21	8	8	11	23	23	31	80	53	32	19	9	4	13	25	29	22	21	21	16	32
Q	9	7	9	10	5	7	2	50	69	172	132	36	23	31	26	39	62	96	56	49	39	17	23	21	41
Q	19	25	23	21	15	8	15	19	15	14	44	85	79	76	40	44	22	29	25	31	39	16	14	19	31
Q	19	13	11	7	10	10	13	25	34	24	22	22	19	20	17	17	24	21	30	44	45	38	77	155	30
18	138	136	145	148	207	165	98	109	110	143	168	238	183	110	69	35	43	94	95	71	124	346	233	161	140
19	165	190	201	280	312	245	43	38	37	88	121	173	177	152	193	280	339	366	356	281	172	119	72	78	187
20	175	182	145	78	65	70	47	32	23	62	38	77	192	116	68	35	46	61	96	98	144	77	151	136	92
21	102	30	53	36	21	25	65	110	110	123	131	139	66	31	26	23	34	106	73	75	166	143	191	159	85
D	181	220	208	207	259	353	481	547	384	487	357	371	352	420	534	488	467	434	315	243	123	116	84	48	320
23	43	41	31	35	27	34	25	19	31	21	36	30	20	32	27	31	54	186	278	295	185	56	57	35	68
24	88	156	128	181	87	133	104	55	43	22	41	51	31	26	22	25	54	74	48	31	23	25	24	103	66
25	80	51	63	81	84	62	85	142	42	67	102	147	108	151	137	100	100	114	111	97	114	71	52	41	92
26	39	35	25	16	14	21	37	37	63	164	175	133	100	101	33	17	26	37	48	136	154	127	97	53	70
27	93	169	136	93	58	43	51	62	164	138	131	119	84	130	231	127	94	61	65	64	48	64	59	94	99
28	79	90	81	66	56	74	138	207	131	173	243	161	156	156	112	125	95	68	76	83	78	59	102	120	114
29	96	119	97	96	230	275	192	204	132	99	62	126	193	170	116	60	182	128	70	151	165	110	114	101	137
30	71	57	91	95	133	74	157	100	122	111	202	207	182	119	62	151	133	93	98	108	142	114	76	124	118
31	152	91	45	101	197	95	92	29	35	38	52	73	77	57	71	49	66	74	68	63	50	45	56	32	71
Mean	110	112	107	129	127	132	132	122	97	114	113	123	131	130	122	121	127	124	126	140	131	112	103	114	121
5Q Mean	40	23	19	24	13	10	10	26	39	67	56	50	44	39	27	27	28	38	34	38	38	27	34	52	33
5D Mean	230	251	260	362	283	318	348	310	192	201	169	203	238	285	312	320	340	268	250	269	290	240	165	212	263

AL Index (Provisional Hourly mean values, unit nT)

May 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	-27	-24	-12	-19	-25	-26	-204	-256	-47	-18	-19	-21	-21	-9	-8	-73	-76	-54	-16	-179	-186	-46	-30	-92	-62
2	-257	-89	-81	-107	-108	-308	-344	-43	-12	-25	-17	-10	-17	-16	-20	-8	-15	-59	-42	-51	-31	-7	-14	-24	-71
3	-24	-25	-52	-36	-48	-81	-203	-49	-19	-16	-22	-57	-90	-201	-288	-141	-97	-125	-305	-206	-21	-4	-17	-126	-94
4	-234	-294	-404	-329	-347	-245	-240	-155	-118	-277	-172	-131	-146	-204	-270	-212	-155	-121	-23	-13	-15	-21	-50	-22	-175
5	-21	-19	-9	-32	-89	-63	-36	-21	-26	-24	-32	-68	-73	-56	-157	-19	-16	-9	-11	6	6	2	2	-3	-32
Q	-4	-10	-12	-13	-18	-20	-22	-19	-29	-97	-57	-23	-20	-18	-41	-21	-4	-9	0	0	-6	-4	-11	-27	-20
7	-14	-41	-21	-22	-21	-20	-13	-12	-10	-17	-18	-28	-78	-55	-21	-14	-206	-311	-220	-232	-417	-249	-330	-378	-114
D	-394	-371	-384	-371	-374	-457	-610	-571	-524	-448	-555	-754	-687	-737	-745	-293	-183	-265	-344	-340	-228	-143	-100	-160	-418
D	-253	-191	-198	-245	-202	-154	-144	-44	-20	-41	-103	-192	-241	-192	-193	-307	-416	-124	-329	-239	-429	-339	-52	-148	-200
D	-73	-102	-187	-306	-559	-270	-397	-650	-1181	-764	-1518	-1001	-603	-596	-719	-669	-967	-1076	-828	-849	-915	-725	-903	-629	-687
D	-1022	-966	-742	-714	-760	-623	-603	-822	-597	-418	-455	-395	-429	-618	-767	-618	-494	-651	-529	-496	-493	-378	-261	-230	-587
12	-224	-184	-322	-230	-121	-81	-90	-100	-195	-187	-124	-145	-210	-196	-178	-91	-140	-121	-236	-364	-160	-185	-125	-228	-176
13	-141	-132	-325	-146	-395	-527	-402	-319	-239	-125	-282	-579	-517	-498	-426	-295	-185	-103	-213	-207	-94	-126	-320	-266	-286
Q	-83	-44	-48	-50	-107	-29	-29	-32	-33	-33	-38	-57	-68	-36	-34	-25	-29	-21	-20	-19	-18	-19	-20	-23	-38
Q	-29	-33	-33	-35	-36	-34	-40	-32	-35	-111	-130	-33	-28	-33	-34	-42	-85	-292	-139	-43	-62	-34	-27	-27	-59
Q	-32	-34	-27	-25	-27	-36	-36	-29	-32	-30	-42	-65	-97	-112	-40	-59	-34	-18	-17	-21	-36	-30	-33	-29	-39
Q	-18	-30	-31	-37	-41	-46	-41	-35	-29	-33	-34	-30	-23	-15	-11	-13	-18	-21	-25	-28	-32	-32	-64	-133	-34
18	-158	-193	-109	-84	-102	-135	-56	-30	-29	-68	-133	-171	-161	-182	-105	-75	-72	-188	-102	-47	-67	-121	-426	-348	-132
19	-199	-151	-476	-289	-254	-139	-46	-35	-29	-31	-43	-94	-224	-300	-282	-237	-304	-215	-304	-361	-188	-68	-38	-41	-181
20	-97	-167	-156	-41	-31	-73	-40	-46	-32	-35	-24	-39	-212	-212	-89	-79	-104	-80	-74	-103	-99	-50	-112	-136	-89
21	-107	-41	-44	-36	-35	-38	-28	-82	-109	-123	-180	-118	-42	-28	-44	-45	-39	-136	-102	-62	-282	-256	-156	-193	-97
D	-151	-158	-213	-235	-329	-465	-492	-661	-518	-566	-274	-446	-565	-866	-613	-493	-489	-343	-225	-76	-152	-104	-40	-17	-354
23	-31	-34	-35	-36	-38	-35	-31	-38	-40	-37	-41	-45	-33	-43	-47	-56	-72	-237	-395	-572	-320	-45	-35	-36	-97
24	-70	-252	-171	-200	-121	-87	-51	-92	-36	-27	-35	-48	-38	-64	-49	-89	-104	-123	-51	-20	-27	-30	-35	-80	-79
25	-87	-88	-120	-111	-65	-31	-58	-181	-98	-51	-46	-87	-133	-266	-337	-285	-196	-148	-66	-74	-189	-56	-37	-26	-118
26	-30	-30	-26	-21	-28	-27	-21	-28	-24	-83	-140	-139	-90	-73	-85	-53	-30	-21	-14	-119	-104	-138	-119	-50	-62
27	-64	-157	-226	-135	-29	-26	-27	-46	-242	-342	-203	-152	-71	-101	-391	-258	-110	-49	-29	-16	-21	-24	-31	-94	-118
28	-67	-132	-137	-69	-28	-69	-37	-256	-267	-81	-261	-246	-218	-159	-132	-81	-47	-25	14	-10	-10	-9	-62	-125	-105
29	-60	-38	-53	-163	-166	-296	-388	-222	-170	-64	-23	-43	-181	-465	-263	-42	-104	-138	-61	-137	-243	-92	-80	-87	-149
30	-25	-46	-78	-187	-313	-212	-145	-69	-130	-41	-224	-183	-281	-281	-130	-244	-283	-145	-118	-137	-210	-129	-56	-99	-157
31	-304	-89	-62	-120	-358	-228	-58	-16	-20	-23	-31	-34	-34	-26	-36	-34	-56	-242	-83	-14	-5	-3	-16	-7	-79
Mean	-138	-134	-154	-143	-166	-157	-159	-161	-157	-136	-170	-175	-181	-214	-211	-160	-165	-176	-158	-162	-163	-111	-116	-125	-158
5Q Mean	-33	-30	-30	-32	-45	-33	-33	-29	-31	-60	-60	-41	-47	-42	-32	-32	-34	-72	-40	-22	-30	-23	-31	-47	-38
5D Mean	-378	-357	-344	-374	-444	-393	-449	-549	-568	-447	-581	-557	-505	-601	-607	-476	-509	-491	-451	-400	-443	-337	-271	-236	-449

AE Index (Provisional Hourly mean values, unit nT)

May 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	54	60	41	55	106	105	363	472	137	62	57	66	56	59	53	173	162	116	90	505	379	169	103	215	152
2	344	147	140	141	183	529	501	106	52	67	39	53	59	47	55	47	54	127	113	117	84	44	50	55	131
3	51	61	84	95	85	160	291	102	55	96	111	158	205	313	400	223	170	242	490	376	91	53	68	228	175
4	412	488	573	592	663	515	501	361	309	648	396	296	267	354	426	472	418	243	84	51	49	69	134	79	350
5	71	79	42	142	179	128	77	44	59	80	158	181	172	142	235	63	57	51	53	36	35	35	27	29	91
Q	29	32	29	28	32	38	38	49	84	201	113	55	70	55	79	50	36	41	35	39	52	48	49	80	57
7	62	82	61	63	56	45	49	50	63	65	68	100	224	179	87	130	310	523	481	528	640	468	611	682	235
D	703	688	651	668	705	902	978	1072	889	631	821	1044	1055	1256	1314	721	465	628	632	704	549	330	329	319	752
D	367	315	368	467	422	340	329	117	83	183	254	394	402	322	322	639	749	303	695	567	1132	875	325	633	442
D	508	466	547	1050	907	639	891	873	1173	757	1421	954	706	706	768	774	1340	1268	927	1023	917	841	987	754	883
D	1139	1204	1047	1060	1020	863	818	1032	758	624	631	601	642	874	1056	872	747	829	718	740	798	627	422	476	817
12	414	361	487	374	227	167	215	200	344	321	235	269	355	377	297	199	192	203	382	571	318	331	255	361	311
13	283	301	492	236	654	863	736	602	492	310	509	799	932	846	760	535	369	284	391	331	188	255	553	492	509
14	214	95	88	122	129	38	38	44	57	58	70	138	121	69	53	36	33	35	45	49	41	41	42	40	71
Q	39	41	42	45	42	42	43	84	105	284	263	71	51	65	61	83	148	388	196	93	102	52	51	49	102
Q	52	59	50	47	44	46	52	49	49	46	86	151	178	189	82	103	57	49	44	53	76	47	48	49	71
Q	39	43	42	45	52	57	55	61	65	59	57	53	42	35	30	32	44	44	56	74	79	72	141	289	65
18	297	330	254	233	310	302	154	139	139	211	303	411	345	293	176	110	117	283	199	119	193	467	660	511	273
19	366	342	677	570	566	385	90	74	67	120	165	268	402	453	475	518	644	583	662	643	362	189	111	120	369
20	273	350	302	120	97	144	87	78	56	98	63	117	405	329	158	115	152	143	172	201	243	128	263	272	182
21	209	72	98	74	58	65	94	193	221	248	313	258	109	60	71	70	74	243	177	138	449	400	347	352	183
D	332	380	422	443	589	819	973	1208	902	1054	633	819	919	1288	1149	983	958	779	542	320	276	221	125	66	675
23	74	75	67	72	65	71	57	58	73	59	78	77	54	77	75	88	128	425	675	868	507	102	93	72	166
24	159	409	299	381	209	221	156	149	81	50	78	101	71	91	72	115	159	199	100	52	52	56	61	184	146
25	167	139	184	192	149	95	145	324	141	120	149	235	243	418	475	386	297	264	178	173	304	128	90	69	211
26	70	65	52	37	42	49	59	65	88	248	316	273	191	176	120	71	57	60	64	257	260	266	217	103	134
27	158	327	363	228	88	70	79	109	407	481	335	273	156	233	622	386	205	111	96	81	70	89	90	188	219
28	147	222	219	136	85	145	176	464	399	255	505	408	375	316	245	206	143	94	61	94	88	70	164	245	219
29	157	158	150	260	397	572	582	427	304	164	87	170	375	637	380	104	288	267	132	289	409	202	195	189	287
30	96	104	170	284	448	286	302	170	253	153	427	391	464	402	192	397	418	239	217	245	352	243	133	223	275
31	458	181	107	221	556	325	150	45	56	62	84	108	112	84	108	84	123	316	152	78	56	49	73	40	151
Mean	249	247	262	273	295	291	292	284	256	252	284	299	314	346	335	283	294	302	285	303	295	224	219	240	280
5Q Mean	74	54	50	57	59	44	45	57	72	129	117	93	92	82	61	60	63	111	75	61	70	52	66	101	73
5D Mean	609	610	607	737	728	712	797	860	761	649	752	762	744	889	921	797	851	761	702	670	734	578	437	449	713

A0 Index (Provisional Hourly mean values, unit nT)

May

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean	
1	0	5	7	7	27	25	-23	-20	20	11	7	11	5	19	17	12	4	3	27	72	2	36	20	14	13	
2	-84	-16	-10	-36	-16	-43	-94	8	12	7	1	15	10	6	6	13	10	3	14	6	10	13	9	2	-6	
3	0	4	-9	10	-5	-1	-58	1	7	30	32	20	12	-44	-87	-29	-12	-4	-59	-18	23	22	15	-12	-6	
4	-28	-49	-116	-32	-14	11	9	24	35	45	24	15	-13	-27	-57	23	52	0	17	11	8	11	16	16	0	
5	13	19	11	38	0	0	2	0	2	14	45	21	11	13	-39	11	11	15	15	25	23	20	16	10	12	
Q	8	4	1	0	-2	-1	-2	4	12	3	-1	3	14	9	-2	3	12	10	18	19	19	18	12	11	7	
7	15	0	8	8	6	2	11	12	20	14	15	21	33	33	22	50	-51	-49	19	30	-96	-15	-25	-36	2	
D	-42	-27	-58	-37	-21	-6	-120	-35	-79	-132	-145	-231	-159	-109	-88	66	48	48	-28	11	45	21	63	-1	-42	
D	-69	-33	-14	-12	8	15	20	14	20	49	22	4	-40	-31	-32	11	-42	27	17	43	136	97	109	167	20	
D	181	130	84	217	-105	49	47	-213	-594	-385	-807	-524	-250	-243	-335	-282	-296	-442	-365	-337	-455	-304	-408	-252	-245	
D	-452	-363	-218	-184	-249	-191	-193	-306	-217	-106	-140	-95	-108	-180	-239	-182	-120	-235	-170	-126	-93	-64	-49	7	-178	
12	-16	-3	-78	-42	-7	2	16	0	-23	-27	-6	-11	-33	-8	-29	7	-44	-19	-45	-78	-1	-19	1	-47	-21	
13	0	17	-78	-27	-67	-95	-34	-18	6	28	-27	-180	-52	-75	-45	-27	-1	37	-18	-41	0	0	-44	-20	-31	
Q	23	3	-4	10	-42	-10	-10	-9	-4	-4	-3	11	-7	-1	-7	-7	-12	-3	2	4	1	0	0	-3	-3	
Q	-9	-12	-11	-12	-15	-12	-18	8	16	29	1	1	-2	-1	-4	-1	-11	-97	-41	2	-11	-8	-1	-2	-8	
Q	-5	-3	-1	-2	-6	-13	-10	-4	-8	-7	0	9	-9	-17	0	-7	-5	4	3	4	1	-6	-8	-4	-4	
Q	0	-7	-9	-14	-15	-17	-13	-4	2	-3	-5	-3	-1	2	2	1	2	0	2	7	6	2	6	10	-2	
18	-10	-28	17	31	52	14	20	39	40	37	17	33	10	-36	-17	-19	-14	-45	-3	11	28	112	-96	-93	4	
19	-16	18	-136	-4	29	52	0	0	4	27	38	38	-22	-73	-44	20	17	74	25	-39	-7	24	15	17	2	
20	37	7	-4	18	16	-1	3	-6	-3	13	6	18	-10	-47	-9	-21	-28	-9	11	-2	22	12	18	0	1	
21	-2	-4	4	0	-6	-6	18	13	0	0	-24	9	10	0	-9	-10	-2	-14	-13	6	-57	-55	17	-16	-6	
D	22	14	30	-2	-13	-34	-55	-56	-66	-39	40	-37	-106	-222	-39	-2	-11	45	44	83	-14	5	21	14	-16	
23	5	3	-1	0	-5	0	-2	-9	-4	-7	-2	-7	-6	-5	-10	-11	-8	-24	-57	-138	-67	4	10	0	-14	
24	8	-47	-21	-8	-15	22	26	-18	3	-2	2	0	-3	-18	-12	-31	-24	-24	-1	5	-1	-2	-5	11	-6	
25	-3	-18	-28	-14	9	15	13	-19	-27	7	27	29	-12	-56	-99	-91	-47	-16	22	11	-36	7	6	6	-13	
26	3	2	0	-2	-6	-2	7	4	18	39	17	-3	4	13	-25	-17	-1	7	16	8	24	-5	-11	1	3	
27	13	6	-44	-20	14	8	11	7	-38	-101	-35	-16	5	14	-79	-65	-7	5	17	23	13	19	13	0	-9	
28	5	-20	-27	-1	13	1	49	-24	-67	45	-9	-42	-30	-1	-9	21	23	21	45	36	33	24	19	-2	4	
29	17	39	21	-32	31	-10	-97	-9	-18	17	19	41	5	-147	-72	8	38	-4	4	7	-37	8	16	6	-6	
30	22	5	6	-45	-89	-68	6	14	-4	34	-11	11	-49	-80	-33	-45	-74	-25	-9	-13	-33	-7	9	12	-19	
31	-75	1	-8	-9	-80	-66	16	6	7	7	10	18	20	14	17	7	4	-83	-7	23	21	20	19	12	-4	
Mean	-14	-10	-23	-6	-19	-12	-13	-19	-29	-11	-28	-26	-24	-41	-43	-19	-19	-25	-16	-11	-15	0	-7	-5	-18	
5Q Mean	3	-3	-4	-3	-16	-10	-10	-1	3	3	-1	4	-1	-1	-2	-2	-2	-2	-17	-3	7	3	1	1	2	-2
5D Mean	-73	-52	-41	-5	-80	-37	-50	-119	-187	-122	-206	-176	-132	-157	-146	-77	-84	-111	-100	-65	-76	-49	-52	-13	-92	

AU Index (Provisional Hourly mean values, unit nT)

June

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
Q	26	25	135	108	138	96	110	121	110	77	101	97	108	81	47	32	26	31	44	51	32	31	35	40	71
Q	84	67	51	48	18	42	136	53	62	58	131	105	58	26	35	34	62	95	90	56	44	57	62	57	64
Q	56	36	31	28	44	36	26	28	38	38	34	37	27	36	83	58	97	87	59	40	43	20	31	32	44
Q	27	25	24	33	34	40	57	28	24	45	98	95	66	63	46	43	34	34	33	40	48	57	62	84	48
Q	52	32	26	22	20	24	34	48	95	60	57	85	139	91	57	28	37	71	44	35	28	33	33	26	49
Q	17	17	15	13	12	14	18	30	54	93	151	101	117	118	78	46	28	29	44	43	49	53	63	59	53
Q	45	64	94	111	69	42	74	113	126	184	148	119	69	51	48	40	54	115	197	318	323	405	346	333	145
D	225	242	336	302	357	417	392	167	292	338	487	350	387	557	569	469	383	531	444	431	519	456	340	165	381
D	155	214	288	287	283	243	215	205	272	271	281	191	163	129	146	82	60	50	52	77	146	117	113	100	173
D	125	130	60	63	175	118	331	265	434	348	297	306	171	112	93	63	42	63	60	52	48	43	36	35	145
D	41	70	101	200	124	79	38	70	85	146	233	182	216	232	298	330	304	306	291	393	484	483	291	340	222
D	271	248	176	67	109	68	88	124	212	87	63	106	224	456	490	554	348	158	110	76	63	63	99	82	181
D	62	77	53	42	106	210	158	107	58	134	140	148	138	145	128	176	201	248	311	242	227	219	253	178	157
D	96	66	49	55	51	84	86	99	71	131	141	130	138	111	96	52	43	28	51	70	124	135	81	62	85
D	94	125	159	156	172	190	179	101	46	35	51	71	81	128	168	238	180	117	137	143	117	100	101	117	125
Q	126	172	227	200	183	128	66	90	55	32	20	22	33	30	22	20	24	30	46	36	26	22	25	21	69
Q	22	21	21	22	34	43	98	99	96	34	25	58	68	120	96	123	141	80	83	54	30	20	53	60	63
Q	75	81	94	98	134	160	143	135	228	171	130	203	144	158	206	246	177	225	470	495	684	579	525	451	250
Q	252	112	68	39	27	36	58	31	150	73	57	33	17	31	50	26	62	152	276	179	50	43	41	39	79
Q	36	28	29	33	23	16	22	30	50	76	30	15	58	182	127	46	44	34	29	39	25	24	27	85	46
Q	252	132	89	47	45	50	26	39	23	19	20	66	42	54	59	77	78	29	43	59	74	80	114	145	69
Q	221	196	208	241	309	99	52	29	24	31	36	51	41	47	46	43	33	28	28	28	19	36	82	182	88
Q	197	143	211	292	291	164	98	72	100	154	127	77	75	119	56	80	53	68	125	191	209	152	60	71	133
Q	57	54	196	378	234	353	211	151	108	71	35	164	215	135	99	118	171	222	241	149	185	132	139	162	166
Q	211	171	233	141	132	130	107	175	206	162	188	137	124	109	124	138	97	93	61	69	188	151	112	85	139
Q	51	45	69	60	113	217	164	185	185	84	53	36	34	50	37	58	60	66	76	87	98	113	172	174	95
Q	206	112	106	117	63	54	99	104	127	247	246	191	72	52	51	33	63	51	75	103	123	169	235	142	118
Q	70	76	106	88	74	196	232	326	212	157	310	220	209	206	161	85	72	81	75	35	31	73	157	160	142
D	145	207	191	349	455	325	220	171	257	311	403	378	226	273	315	336	289	230	282	377	331	337	205	173	283
D	216	339	391	356	512	395	374	329	168	61	52	100	106	102	118	127	91	58	33	29	52	93	122	187	184
Mean	117	110	127	133	144	135	130	117	132	124	138	129	118	133	131	126	111	113	130	133	147	143	133	128	128
5Q Mean	55	60	67	63	56	53	75	60	58	52	85	76	68	71	55	53	57	53	59	45	39	41	53	56	59
5D Mean	179	221	239	254	311	256	222	172	202	188	247	223	231	324	358	363	283	256	232	261	289	286	211	189	250

AL Index (Provisional Hourly mean values, unit nT)

June

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
Q 1	-20	-35	-181	-256	-219	-135	-134	-311	-220	-86	-87	-130	-278	-177	-132	-133	-70	-40	-35	-50	-18	-20	-25	-36	-118
Q 2	-72	-68	-40	-33	-32	-24	-88	-157	-98	-67	-125	-149	-43	-35	-40	-55	-150	-71	-73	-96	-47	-40	-45	-103	-73
Q 3	-52	-23	-29	-29	-34	-34	-33	-28	-25	-32	-30	-26	-27	-26	-90	-198	-289	-176	-71	-34	-22	-22	-32	-32	-58
Q 4	-29	-27	-23	-30	-37	-40	-46	-49	-38	-33	-57	-119	-37	-42	-31	-39	-157	-87	-21	-7	-19	-23	-22	-125	-47
Q 5	-68	-27	-30	-28	-29	-29	-22	-27	-34	-34	-21	-38	-120	-105	-38	-41	-9	-66	-12	-7	-13	-14	-23	-30	-36
Q 6	-29	-37	-35	-34	-39	-41	-40	-30	-25	-70	-134	-66	-80	-92	-113	-43	-65	-20	-35	-17	-45	-34	-30	-34	-49
Q 7	-31	-40	-49	-168	-74	-35	-32	-90	-210	-142	-61	-36	-29	-13	-11	-22	-36	-60	-276	-517	-510	-493	-522	-353	-159
D 8	-346	-611	-568	-546	-529	-443	-392	-113	-120	-352	-485	-357	-286	-561	-514	-626	-709	-691	-470	-469	-423	-273	-168	-656	-446
Q 9	-354	-436	-371	-306	-256	-163	-209	-404	-264	-455	-383	-326	-236	-206	-196	-64	-19	-11	-50	-77	-181	-177	-116	-52	-221
Q 10	-58	-120	-39	-39	-66	-69	-196	-164	-173	-231	-184	-237	-245	-113	-68	-135	-103	-95	-35	-33	-42	-30	-33	-32	-106
D 11	-28	-55	-84	-218	-224	-96	-35	-73	-137	-221	-208	-198	-296	-321	-492	-496	-490	-459	-278	-310	-509	-480	-498	-307	-271
D 12	-115	-424	-197	-63	-74	-57	-70	-149	-258	-86	-13	-22	-115	-637	-582	-568	-479	-112	-55	-51	-17	-20	-63	-57	-178
Q 13	-54	-62	-31	-46	-54	-153	-270	-158	-48	-78	-198	-192	-237	-235	-152	-227	-186	-223	-262	-266	-206	-120	-161	-277	-162
Q 14	-228	-109	-58	-31	-40	-32	-49	-97	-60	-58	-176	-114	-154	-112	-145	-178	-115	-51	-29	-39	-91	-121	-96	-57	-93
Q 15	-58	-114	-384	-315	-229	-270	-176	-79	-48	-32	-39	-32	-33	-114	-420	-436	-309	-241	-298	-139	-67	-63	-101	-134	-172
Q 16	-117	-149	-216	-261	-223	-192	-85	-51	-40	-32	-37	-35	-32	-24	-14	-21	-29	-11	-36	-26	-27	-25	-25	-22	-72
Q 17	-25	-28	-34	-34	-27	-32	-25	-93	-98	-44	-41	-45	-44	-177	-173	-238	-269	-226	-140	-37	-38	-38	-38	-38	-83
Q 18	-36	-46	-110	-86	-102	-128	-70	-77	-129	-172	-103	-141	-218	-395	-326	-295	-136	-43	-148	-721	-762	-533	-413	-268	-227
Q 19	-96	-189	-145	-138	-120	-58	-76	-57	-48	-49	-20	-17	-32	-50	-18	-50	-70	-235	-356	-207	-42	-32	-33	-21	-90
Q 20	-19	-26	-30	-30	-52	-44	-37	-33	-37	-102	-108	-56	-65	-284	-233	-124	-155	-54	-59	-49	-43	-22	-24	-67	-73
Q 21	-166	-306	-92	-45	-39	-37	-48	-58	-33	-30	-24	-64	-50	-40	-73	-150	-248	-69	-42	-121	-115	-47	-80	-128	-88
Q 22	-312	-302	-175	-139	-207	-118	-34	-41	-38	-31	-30	-27	-20	-5	-8	-3	-22	-15	-5	-4	-15	-33	-74	-117	-74
Q 23	-243	-300	-260	-236	-283	-159	-57	-111	-123	-102	-66	-58	-46	-105	-43	-48	-59	-80	-125	-128	-146	-178	-34	-38	-126
Q 24	-45	-46	-156	-466	-423	-336	-208	-182	-57	-57	-38	-64	-391	-202	-151	-93	-170	-200	-262	-145	-145	-153	-225	-171	-184
Q 25	-216	-391	-413	-359	-169	-266	-179	-270	-245	-178	-101	-145	-321	-134	-207	-342	-162	-88	-69	-67	-140	-264	-80	-59	-203
Q 26	-86	-82	-110	-48	-137	-284	-230	-240	-404	-67	-66	-46	-27	-29	-32	-77	-172	-246	-133	-54	-92	-108	-369	-247	-141
Q 27	-273	-127	-111	-142	-54	-28	-52	-128	-163	-287	-436	-368	-139	-47	-83	-112	-132	-97	-130	-148	-132	-197	-189	-113	-154
Q 28	-58	-103	-114	-110	-91	-98	-123	-464	-339	-278	-392	-305	-376	-532	-227	-60	-97	-162	-55	-32	-33	-54	-214	-169	-187
D 29	-108	-445	-439	-443	-529	-370	-318	-263	-224	-337	-409	-513	-531	-503	-351	-407	-455	-559	-484	-487	-656	-643	-688	-626	-450
D 30	-655	-611	-791	-841	-398	-495	-420	-278	-293	-61	-15	-41	-90	-103	-247	-158	-47	-67	-20	-8	-49	-107	-128	-241	-257
Mean	-133	-177	-177	-184	-159	-142	-125	-142	-134	-126	-136	-132	-153	-180	-173	-181	-180	-151	-136	-144	-154	-145	-151	-153	-153
5Q Mean	-54	-61	-69	-78	-71	-65	-56	-76	-59	-49	-78	-82	-47	-74	-74	-79	-134	-83	-61	-36	-35	-32	-32	-64	-64
5D Mean	-250	-429	-415	-422	-350	-292	-247	-175	-206	-211	-226	-226	-263	-425	-437	-451	-436	-377	-261	-265	-330	-304	-309	-377	-320

AE Index (Provisional Hourly mean values, unit nT)

June 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
Q	48	61	317	365	359	233	244	433	330	164	188	228	387	259	180	167	97	72	81	102	51	51	61	77	190
Q	158	137	93	83	51	67	224	212	161	126	256	255	101	62	76	90	213	167	163	152	92	98	108	161	138
Q	110	60	61	59	79	72	60	57	64	71	66	64	56	64	174	257	387	265	131	75	66	43	64	65	103
Q	57	53	48	65	73	81	104	78	63	80	155	215	104	106	79	82	192	122	55	48	69	81	86	209	96
Q	121	60	57	50	51	54	57	76	131	95	79	124	261	197	95	70	47	138	56	43	41	48	57	56	86
Q	47	56	52	48	52	56	59	61	80	164	286	168	198	212	192	91	94	50	79	60	94	88	93	93	103
Q	77	105	144	281	144	77	107	203	336	327	210	157	100	66	60	63	90	176	473	835	834	899	869	687	305
D	572	854	905	848	886	862	786	281	413	691	973	708	674	1119	1084	1096	1092	1222	915	901	943	730	509	822	829
D	509	651	661	593	539	407	424	611	538	726	665	518	400	337	343	147	79	61	103	155	327	295	230	153	395
D	184	252	100	104	242	188	529	430	608	579	481	544	417	227	163	200	145	159	95	86	90	74	70	68	252
D	70	127	186	418	349	177	73	144	222	368	442	381	513	554	790	827	795	766	570	704	994	964	791	647	495
D	387	674	374	131	184	127	158	274	471	174	77	129	340	1093	1072	1123	828	271	166	127	80	84	163	140	360
D	117	141	86	89	160	363	428	266	106	212	339	341	376	382	281	403	388	472	574	509	434	339	416	456	320
D	325	176	108	88	92	117	136	196	131	190	318	245	293	224	243	231	160	80	81	110	216	257	177	120	180
D	153	240	545	473	402	461	356	181	95	68	91	103	115	244	590	674	489	359	436	283	185	163	203	252	298
Q	244	322	445	462	407	321	151	141	96	65	58	59	67	56	37	42	54	42	83	63	55	49	51	45	142
Q	47	50	55	57	63	76	124	193	195	80	67	103	114	298	270	362	410	307	223	92	69	60	93	99	146
Q	111	129	206	185	237	288	213	212	357	344	234	346	364	554	533	541	313	269	618	1218	1447	1113	939	721	479
Q	349	303	214	178	148	95	134	88	198	123	78	51	50	83	69	76	133	388	633	386	93	77	76	61	170
Q	57	55	60	64	77	61	61	64	88	179	139	71	124	467	361	171	200	89	88	88	69	47	53	153	120
Q	419	440	182	93	84	88	75	97	57	50	45	131	93	95	132	228	327	99	86	181	190	128	196	273	158
Q	534	499	384	381	517	218	88	71	63	62	66	79	62	52	54	47	56	44	34	32	34	69	157	299	163
Q	441	444	472	530	575	324	156	183	224	257	194	136	122	225	101	130	113	148	251	319	355	331	95	111	260
Q	103	101	353	845	658	690	419	333	165	128	75	229	607	339	252	211	342	423	523	294	331	286	365	334	350
Q	428	563	647	500	301	396	287	445	452	340	290	284	446	244	333	481	259	183	131	136	329	415	193	145	343
Q	139	129	181	110	251	503	395	426	590	153	119	83	62	80	70	136	232	313	210	142	191	221	541	422	237
Q	480	241	218	261	118	82	152	232	291	534	683	561	213	100	136	146	196	149	206	252	255	367	425	257	273
Q	129	179	222	200	166	295	356	791	552	436	703	527	586	740	389	145	170	244	131	68	65	128	372	329	330
Q	255	653	630	793	984	696	539	436	481	648	812	892	757	777	668	744	745	790	767	865	989	981	895	800	733
Q	871	951	1183	1199	911	891	795	607	462	123	68	142	197	206	366	286	139	126	54	37	102	200	250	429	441
Mean	251	290	306	318	305	278	256	260	267	251	275	262	273	315	306	308	292	266	267	278	303	289	286	282	283
5Q Mean	110	123	138	143	129	120	132	137	119	103	164	160	116	146	130	133	192	137	120	83	75	75	86	121	125
5D Mean	431	651	655	677	662	550	470	348	409	400	474	450	496	749	796	815	719	635	494	526	621	591	521	567	571

AO Index (Provisional Hourly mean values, unit nT)

June

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
Q 1	2	-5	-22	-73	-39	-19	-11	-94	-54	-4	6	-16	-84	-47	-41	-50	-21	-4	3	0	6	4	3	1	-23
Q 2	5	-1	4	7	-6	8	24	-51	-17	-4	2	-21	6	-4	-1	-9	-43	11	7	-19	-1	8	7	-22	-4
Q 3	1	5	0	0	4	0	-2	0	5	2	1	4	0	4	-3	-69	-95	-44	-5	2	9	-1	0	0	-7
Q 4	-1	0	0	1	-1	0	5	-9	-5	5	20	-11	13	10	7	1	-61	-25	5	15	13	16	19	-20	0
Q 5	-8	2	-1	-2	-4	-2	6	10	30	12	17	22	9	-6	8	-6	13	2	15	13	6	8	4	-2	6
Q 6	-4	-9	-9	-10	-13	-13	-10	0	13	11	8	16	18	12	-17	1	-17	4	4	12	2	9	15	11	1
Q 7	6	11	21	-28	-2	3	20	11	-41	21	42	40	19	18	17	8	8	26	-39	-99	-92	-43	-87	-9	-6
D 8	-60	-184	-115	-121	-85	-12	0	26	85	-6	0	-3	49	-1	26	-78	-162	-79	-13	-18	47	91	85	-245	-32
Q 9	-98	-110	-41	-9	12	39	3	-99	4	-91	-49	-66	-35	-37	-24	8	19	19	1	0	-17	-29	-1	23	-24
Q 10	32	4	9	11	54	24	67	49	130	58	55	34	-36	0	12	-35	-30	-16	11	8	2	5	0	1	19
D 11	6	7	7	-9	-50	-8	1	-1	-25	-36	12	-7	-39	-43	-97	-83	-92	-76	5	41	-12	1	-103	16	-24
D 12	77	-87	-10	1	17	5	9	-11	-22	0	24	41	53	-90	-45	-6	-65	22	26	12	22	21	17	11	1
Q 13	3	7	10	-1	25	28	-55	-24	4	27	-28	-21	-48	-44	-11	-25	6	11	24	-11	10	48	45	-48	-2
Q 14	-65	-21	-4	11	4	25	18	1	5	36	-17	7	-7	0	-24	-62	-35	-11	10	14	15	6	-7	2	-3
Q 15	17	5	-112	-79	-28	-39	1	10	0	1	5	18	23	6	-125	-99	-64	-61	-80	1	24	17	0	-7	-23
Q 16	4	11	5	-30	-19	-31	-9	19	7	0	-8	-6	0	2	3	0	-2	8	4	4	0	-1	0	0	-1
Q 17	-1	-3	-6	-5	2	4	36	3	0	-4	-7	5	11	-27	-37	-56	-63	-72	-28	8	-4	-8	7	10	-9
Q 18	18	16	-8	5	14	15	35	28	49	0	13	30	-36	-117	-59	-24	20	90	160	-112	-38	23	55	91	11
Q 19	77	-38	-37	-49	-45	-10	-8	-12	50	11	17	7	-7	-9	15	-11	-4	-41	-39	-13	3	5	3	8	-5
Q 20	8	1	0	1	-14	-14	-7	-1	6	-12	-38	-20	-2	-50	-52	-38	-55	-10	-15	-4	-8	1	1	8	-13
Q 21	43	-86	-1	0	2	6	-10	-9	-4	-5	-2	0	-4	6	-6	-36	-84	-19	0	-31	-20	15	16	7	-9
Q 22	-45	-52	16	50	50	-9	8	-5	-6	0	2	11	10	20	19	19	4	5	11	11	1	0	3	32	6
Q 23	-22	-77	-24	27	3	2	20	-18	-10	25	30	9	14	7	6	14	-3	-6	0	30	30	-12	12	15	3
Q 24	5	3	19	-43	-94	8	1	-15	25	6	-1	49	-87	-33	-25	12	0	10	-20	1	18	-10	-42	-4	-8
Q 25	-2	-109	-89	-108	-17	-67	-35	-47	-19	-7	42	-3	-97	-12	-40	-101	-32	2	-4	0	23	-55	15	12	-31
Q 26	-17	-18	-20	5	-11	-33	-32	-27	-109	8	-6	-4	3	10	2	-9	-55	-90	-28	16	2	1	-97	-36	-22
Q 27	-33	-7	-2	-12	4	12	22	-11	-17	-19	-94	-87	-33	2	-15	-39	-34	-23	-27	-22	-4	-13	22	14	-17
Q 28	6	-13	-3	-10	-8	48	53	-68	-63	-60	-41	-41	-83	-162	-33	12	-12	-40	9	1	-1	8	-28	-4	-22
D 29	17	-118	-123	-46	-36	-22	-48	-45	16	-12	-2	-67	-152	-114	-18	-35	-82	-164	-101	-54	-162	-152	-241	-226	-83
D 30	-219	-135	-199	-242	56	-49	-22	25	-61	0	18	28	7	0	-63	-15	21	-4	6	9	1	-6	-3	-27	-36
Mean	-8	-33	-24	-25	-7	-3	2	-12	0	-1	0	-1	-17	-23	-20	-27	-34	-19	-3	-6	-4	-1	-9	-12	-12
5Q Mean	0	0	-1	-7	-7	-6	9	-7	0	1	3	-3	9	-1	-9	-12	-37	-14	-1	4	2	4	9	-4	-2
5D Mean	-35	-103	-88	-83	-19	-17	-12	-1	-1	-10	10	-1	-16	-49	-89	-43	-76	-60	-15	-2	-20	-9	-49	-94	-34

AU Index (Provisional Hourly mean values, unit nT)

July

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
D	222	158	184	144	130	168	172	99	31	19	33	54	133	103	175	257	180	166	183	264	237	128	84	57	141
	50	25	34	312	301	77	72	175	289	169	55	23	34	64	58	34	73	62	46	26	25	54	102	59	92
	64	86	57	55	44	54	106	88	52	72	110	117	103	74	26	26	44	33	31	38	60	39	22	22	59
	21	18	24	32	97	99	112	49	46	53	44	27	29	40	28	34	40	49	44	46	29	29	15	29	43
	86	120	152	195	273	273	188	56	43	115	119	155	96	82	84	87	85	81	104	115	101	46	44	39	114
	28	79	60	126	68	45	98	86	85	110	123	154	116	61	53	43	42	71	77	63	47	33	29	28	72
Q	27	22	30	37	43	54	62	56	47	30	27	47	58	44	40	44	27	27	41	47	46	63	59	52	43
	46	33	24	37	40	34	23	39	71	85	116	98	58	59	80	64	33	44	65	53	59	45	38	36	53
Q	34	28	49	83	87	132	66	52	46	40	32	50	60	51	44	62	70	58	41	32	35	30	32	32	52
	22	25	49	62	116	106	142	118	62	63	53	44	33	25	19	33	57	82	182	140	50	37	29	24	65
Q	43	26	22	13	18	19	26	43	42	66	98	126	68	59	31	30	25	31	36	42	46	41	37	39	43
	33	28	31	32	137	279	201	210	179	334	321	241	254	145	136	172	169	136	103	141	124	163	144	163	161
D	89	122	183	202	139	215	257	230	251	352	190	262	160	109	180	142	169	272	155	102	119	293	282	90	190
	195	104	113	169	70	179	118	77	100	152	156	54	178	143	92	90	105	124	221	126	72	52	34	30	115
	43	86	151	145	97	56	38	30	24	19	51	16	29	27	59	71	34	29	58	41	40	26	31	30	51
	31	19	19	21	18	21	21	30	96	160	287	231	297	296	194	191	150	264	267	283	237	164	144	207	152
	132	61	69	37	40	14	4	2	5	15	42	19	126	148	107	123	89	42	53	28	21	18	22	21	51
	18	14	21	38	29	39	50	40	31	17	14	11	9	20	48	51	31	28	31	40	28	14	13	55	29
Q	54	36	60	27	22	28	34	30	37	40	35	21	20	22	21	25	36	44	43	36	61	87	88	84	41
	97	134	138	134	61	53	37	26	51	47	46	92	244	174	129	128	174	347	416	352	193	115	97	62	139
	36	22	19	22	66	79	82	65	39	42	58	104	160	156	505	455	433	379	220	107	77	118	113	134	145
D	96	116	119	258	275	172	236	348	452	520	375	256	272	115	92	96	118	216	302	234	129	127	121	159	217
D	88	126	139	140	107	127	81	97	99	50	97	105	41	100	96	110	98	119	171	168	143	191	147	108	115
	86	45	59	79	52	29	50	72	50	73	141	217	171	79	60	48	93	83	81	97	91	74	94	85	84
	80	78	38	55	84	87	109	92	79	62	58	82	126	153	66	77	52	129	99	72	64	54	32	21	77
	25	24	17	14	7	0	-3	0	9	35	51	69	91	45	12	11	24	28	22	32	34	20	23	26	26
Q	44	34	13	16	12	22	48	62	49	43	40	44	40	38	33	38	31	49	59	57	51	81	138	230	53
D	212	128	136	321	452	498	87	23	11	28	43	53	48	59	75	177	128	121	56	72	70	97	68	42	125
	27	25	22	77	41	57	79	37	28	16	13	15	13	18	20	41	43	33	26	24	26	30	46	112	36
	218	191	194	116	71	59	106	71	84	87	99	82	108	136	139	65	84	72	79	159	182	121	68	47	110
	92	77	33	44	99	123	53	90	73	62	52	57	50	79	74	68	53	119	110	64	53	66	164	174	80
Mean	75	67	72	98	99	103	88	80	82	96	96	94	104	87	89	93	90	107	110	100	82	79	76	74	89
5Q Mean	36	27	35	34	35	46	37	36	36	42	48	62	59	44	29	34	36	37	36	37	44	48	47	46	40
5D Mean	141	130	152	213	220	236	166	159	168	193	147	146	130	97	123	156	138	178	173	168	139	167	140	91	157

AL Index (Provisional Hourly mean values, unit nT) July 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
D 1	-436	-214	-197	-195	-295	-208	-185	-121	-43	-22	-14	-35	-123	-214	-424	-415	-243	-193	-237	-285	-252	-108	-32	-50	-189
2	-49	-37	-27	-136	-411	-250	-81	-125	-499	-427	-104	-33	-72	-198	-171	-120	-159	-96	-42	-19	-25	-51	-135	-162	-143
3	-83	-82	-104	-55	-32	-29	-63	-238	-109	-75	-61	-63	-139	-170	-52	-29	-65	-45	-26	-73	-55	-46	-57	-45	-75
4	-35	-33	-29	-29	-77	-125	-67	-39	-18	-72	-66	-37	-36	-36	-35	-50	-120	-140	-62	-57	-20	-27	-34	-33	-53
5	-67	-120	-177	-216	-260	-374	-156	-30	-23	-47	-188	-208	-103	-34	-36	-19	-29	-42	-106	-60	-13	-17	-34	-32	-100
6	-41	-45	-55	-173	-124	-87	-19	-45	-21	-57	-114	-133	-163	-44	-21	-41	-77	-90	-62	-51	-32	-31	-24	-22	-63
Q 7	-19	-20	-25	-22	-34	-65	-52	-48	-30	-32	-32	-34	-44	-41	-34	-40	-57	-31	-20	-18	-52	-94	-73	-79	-41
8	-38	-27	-21	-18	-30	-31	-28	-16	-22	-32	-46	-131	-77	-44	-53	-66	-122	-61	-63	-93	-51	-27	-30	-33	-48
Q 9	-30	-35	-46	-45	-145	-178	-89	-66	-35	-35	-39	-35	-33	-26	-24	-115	-174	-107	-33	-24	-18	-23	-24	-20	-58
10	-23	-30	-43	-38	-179	-154	-115	-215	-63	-58	-48	-59	-39	-41	-60	-80	-100	-114	-175	-83	-27	-17	-24	-26	-75
Q 11	-31	-29	-28	-29	-30	-32	-17	-18	-23	-39	-75	-129	-131	-51	-25	-16	-9	-5	-11	-19	-24	-23	-20	-20	-35
12	-19	-13	-10	-8	-26	-105	-221	-197	-190	-223	-231	-223	-346	-202	-79	-73	-232	-192	-67	-48	-48	-74	-123	-153	-129
D 13	-76	-58	-103	-301	-142	-128	-341	-377	-252	-368	-172	-130	-247	-114	-142	-60	-151	-323	-288	-85	-46	-319	-274	-91	-191
14	-178	-216	-161	-356	-228	-217	-254	-62	-91	-316	-301	-128	-257	-324	-209	-176	-116	-162	-422	-134	-26	-45	-41	-39	-186
15	-37	-68	-284	-309	-220	-130	-122	-72	-87	-36	-46	-55	-48	-31	-45	-68	-53	-89	-73	-40	-35	-33	-34	-37	-86
16	-32	-38	-28	-21	-19	-28	-33	-36	-47	-162	-391	-456	-324	-275	-260	-300	-279	-187	-235	-284	-345	-212	-137	-148	-178
17	-263	-62	-37	-52	-44	-32	-31	-37	-28	-41	-61	-107	-143	-161	-114	-138	-133	-102	-21	-20	-26	-25	-33	-35	-73
18	-37	-39	-37	-33	-20	-29	-52	-36	-32	-31	-36	-36	-32	-27	-47	-80	-87	-45	-20	-38	-58	-31	-34	-46	-40
Q 19	-54	-39	-34	-27	-16	-14	-27	-33	-38	-45	-51	-42	-33	-22	-21	-38	-58	-62	-48	-40	-40	-60	-77	-42	-40
20	-44	-44	-144	-173	-32	-4	-15	-14	-13	-29	-31	-52	-276	-231	-203	-196	-161	-122	-163	-186	-120	-125	-82	-4	-103
21	-8	-13	-12	-7	-17	-24	-66	-48	-31	-22	-46	-69	-129	-230	-453	-507	-478	-416	-194	-51	-35	-121	-94	-90	-132
D 22	-85	-98	-145	-240	-170	-75	-198	-511	-747	-550	-383	-484	-678	-172	-131	-31	-54	-74	-161	-277	-186	-68	-109	-175	-242
D 23	-228	-141	-270	-301	-178	-252	-215	-170	-256	-250	-175	-311	-133	-185	-209	-292	-199	-253	-226	-189	-108	-181	-207	-199	-214
24	-272	-61	-81	-172	-150	-34	-40	-104	-136	-200	-190	-237	-346	-208	-70	-64	-146	-207	-153	-133	-46	-38	-95	-83	-136
25	-133	-121	-124	-136	-100	-104	-163	-129	-130	-83	-39	-95	-166	-193	-280	-312	-155	-251	-166	-10	-12	-21	-16	-14	-123
Q 26	-14	-15	-21	-22	-21	-24	-30	-31	-30	-36	-48	-76	-99	-133	-45	-60	-27	-37	-89	-111	-78	-35	-28	-28	-47
27	-32	-31	-25	-24	-14	-30	-30	-74	-66	-192	-14	-81	-23	-27	-27	-24	-50	-137	-96	-43	-28	-31	-104	-350	-65
D 28	-191	-93	-78	-268	-604	-421	-100	-54	-40	-39	-48	-60	-126	-80	-87	-219	-295	-181	-50	-48	-67	-82	-182	-68	-145
29	-33	-30	-26	-28	-60	-53	-163	-109	-45	-22	-71	-31	-69	-25	-24	-46	-73	-71	-46	-29	-45	-50	-41	-114	-54
30	-330	-231	-177	-77	-56	-30	-27	-147	-99	-94	-100	-38	-50	-46	-40	-89	-205	-153	-64	-167	-208	-132	-63	-31	-111
31	-52	-125	-31	-22	-61	-123	-48	-41	-82	-140	-182	-31	-27	-49	-56	-34	-92	-205	-129	-52	-48	-47	-120	-333	-89
Mean	-95	-71	-83	-113	-122	-107	-98	-104	-107	-121	-109	-117	-145	-117	-112	-122	-135	-135	-114	-89	-70	-70	-76	-83	-105
5Q Mean	-29	-27	-30	-29	-49	-62	-43	-39	-31	-37	-49	-63	-68	-54	-29	-53	-65	-48	-40	-42	-42	-47	-44	-37	-44
5D Mean	-203	-120	-158	-261	-277	-216	-207	-246	-267	-245	-158	-204	-261	-153	-198	-203	-188	-204	-192	-176	-131	-151	-160	-116	-196

AE Index (Provisional Hourly mean values, unit nT)

July

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
D	658	373	381	339	426	377	358	221	74	42	48	91	257	319	601	674	424	361	422	550	490	236	118	109	331
	101	64	61	449	713	327	153	301	790	597	160	57	107	263	230	155	234	160	89	46	52	106	238	222	237
	148	169	162	111	77	84	169	327	163	149	172	181	243	246	79	56	111	79	58	112	117	86	80	67	135
	56	52	54	61	174	224	180	89	65	125	111	65	65	78	64	85	161	191	108	104	51	57	50	63	97
	154	241	330	411	533	647	344	87	67	163	309	364	200	117	121	107	114	124	211	176	116	64	80	73	215
Q	70	124	116	300	192	82	118	131	106	169	238	289	280	106	75	85	121	162	139	115	81	65	54	51	136
	47	43	56	59	78	119	115	104	77	62	60	82	103	86	75	85	86	60	62	66	99	158	134	131	85
	85	61	46	55	70	66	52	56	93	118	164	231	136	104	134	132	157	107	129	148	111	74	69	71	103
	66	65	95	128	232	311	155	118	81	76	72	86	94	78	69	179	246	166	75	57	54	55	58	54	111
	46	56	93	100	295	260	258	333	126	122	102	104	73	68	80	115	158	197	358	224	77	56	54	51	142
Q	75	55	51	42	49	52	43	62	66	107	174	256	200	111	57	48	36	38	49	62	70	65	58	61	79
	54	43	42	42	163	385	423	407	370	558	553	465	602	348	217	246	403	330	171	191	173	239	268	316	292
	165	180	287	503	281	344	598	607	503	722	363	394	408	225	323	203	322	597	444	188	167	613	557	181	382
	373	320	274	525	298	397	372	140	191	470	459	183	437	469	302	268	223	287	644	261	99	99	77	70	302
	82	154	435	454	317	187	161	102	112	56	98	72	78	58	106	141	88	119	132	82	76	60	66	68	138
Q	65	58	48	43	38	50	55	67	144	323	680	689	623	573	456	492	430	452	504	568	583	376	282	356	331
	396	123	107	90	84	46	35	39	33	57	104	127	270	310	223	263	224	145	74	49	48	44	56	58	125
	56	54	60	72	50	69	103	77	63	49	51	48	42	47	96	132	120	75	53	79	87	46	49	102	70
	109	76	95	55	38	42	61	63	76	86	87	64	55	44	42	65	96	107	92	78	103	148	166	127	82
	142	179	283	308	94	57	52	40	65	76	77	145	522	406	334	326	337	470	580	539	315	241	180	66	243
Q	45	37	32	30	84	103	149	113	70	64	104	174	291	388	960	963	912	796	415	159	113	240	208	225	278
	181	215	264	498	446	247	434	860	1200	1071	759	741	951	288	225	128	173	291	464	512	316	196	231	335	459
	316	268	410	442	285	380	297	268	357	301	274	418	175	286	306	404	299	373	399	359	252	373	354	308	329
	359	106	141	251	203	64	91	176	188	275	333	455	519	289	131	114	240	290	236	232	138	112	190	169	221
	214	200	162	191	185	192	273	222	209	147	99	179	294	348	348	390	208	381	266	83	77	76	49	36	201
Q	40	41	39	37	29	23	26	30	39	72	100	147	192	180	58	72	51	66	113	144	113	57	53	54	74
	77	65	39	41	27	52	79	137	115	237	55	126	64	67	61	63	82	187	157	102	81	113	243	581	119
	404	222	215	590	1057	921	188	78	52	67	92	114	175	140	163	397	425	304	106	122	138	181	251	111	271
	61	55	49	106	101	110	242	147	73	38	85	47	83	45	46	88	118	105	74	54	72	80	89	227	91
	549	422	372	193	127	89	133	219	184	182	200	121	159	184	181	156	290	226	144	328	392	253	132	79	221
	146	202	64	67	161	246	102	132	156	203	236	89	78	129	131	103	147	326	240	117	102	114	285	508	170
Mean	172	139	156	212	222	211	187	185	190	218	207	213	250	206	203	217	226	244	226	190	153	151	154	159	195
5Q Mean	67	56	67	64	85	109	80	75	67	80	98	127	128	99	60	89	103	87	78	81	87	96	93	85	86
5D Mean	344	251	311	474	499	453	375	406	437	440	307	351	393	251	323	361	328	385	367	346	272	319	302	208	354

AO Index (Provisional Hourly mean values, unit nT)

July

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
D 1	-106	-27	-6	-25	-81	-19	-6	-10	-6	-1	8	8	5	-54	-124	-78	-31	-13	-26	-9	-7	9	25	3	-23
2	0	-5	3	87	-55	-85	-4	24	-104	-128	-24	-5	-18	-66	-55	-42	-42	-16	1	3	0	1	-15	-50	-25
3	-9	1	-22	0	5	11	21	-74	-28	-1	23	26	-17	-47	-13	-1	-10	-5	1	-16	2	-3	-16	-11	-7
4	-6	-6	-2	1	10	-12	22	4	13	-9	-10	-4	-3	1	-2	-7	-39	-45	-8	-4	3	0	-8	-1	-4
5	8	0	-12	-10	6	-50	15	12	9	33	-34	-26	-3	23	23	33	27	18	-1	27	43	14	4	3	6
6	-6	16	2	-23	-27	3	38	19	31	25	4	9	-23	7	15	0	-17	-8	7	6	7	0	2	2	3
7	3	0	1	6	4	-5	4	3	7	0	-2	6	6	1	2	2	-14	-1	10	14	-3	-14	-6	-13	0
8	3	3	1	8	4	1	-2	10	23	26	33	-16	-9	6	12	-1	-44	-8	0	-19	4	8	3	1	2
9	1	-3	1	17	-28	-22	-10	-7	4	1	-3	7	13	12	9	-26	-51	-24	3	3	8	3	3	5	-3
10	0	-2	2	11	-30	-23	13	-48	0	2	2	-7	-2	-7	-20	-23	-21	-16	3	28	11	9	2	0	-4
11	5	-1	-2	-7	-5	-5	4	11	8	12	11	-1	-30	3	2	5	7	12	12	10	10	8	7	8	3
12	6	7	10	11	54	86	-9	6	-5	55	44	8	-45	-28	28	48	-30	-27	17	46	37	44	10	5	15
13	6	31	39	-49	-1	43	-41	-72	0	-8	8	65	-42	-1	18	41	8	-25	-66	8	36	-12	3	0	0
14	8	-55	-24	-92	-78	-18	-67	7	4	-81	-71	-36	-39	-89	-58	-42	-5	-18	-99	-4	22	3	-3	-4	-35
15	2	8	-66	-81	-60	-36	-41	-21	-31	-8	2	-19	-8	-2	6	1	-9	-29	-7	0	2	-2	-1	-3	-16
16	0	-9	-4	0	0	-3	-5	-3	23	0	-52	-112	-13	10	-32	-53	-63	38	16	0	-53	-23	3	30	-12
17	-64	0	15	-7	-1	-8	-13	-17	-10	-12	-8	-43	-7	-6	-3	-6	-22	-29	15	4	-2	-3	-5	-6	-10
18	-9	-12	-7	2	3	4	-1	1	0	-6	-10	-11	-10	-3	0	-14	-27	-8	5	0	-14	-8	-10	4	-5
19	0	-1	12	0	2	5	3	-1	0	-2	-7	-10	-6	0	0	-5	-10	-8	-2	-1	10	13	5	20	0
20	25	44	-3	-18	14	23	10	5	18	8	7	19	-15	-28	-36	-33	6	111	125	82	36	-4	7	28	18
21	13	4	3	7	24	26	7	8	3	9	5	17	14	-36	26	-25	-22	-18	13	27	20	-1	9	21	6
22	5	8	-13	8	52	48	18	-81	-146	-14	-4	-113	-202	-28	-19	32	31	70	70	-21	-28	29	6	-8	-12
23	-69	-7	-65	-80	-34	-62	-66	-36	-78	-99	-38	-102	-45	-42	-56	-90	-50	-66	-26	-10	17	4	-29	-45	-49
24	-92	-8	-10	-46	-48	-2	4	-16	-42	-63	-23	-9	-86	-63	-5	-8	-26	-61	-36	-17	22	17	0	0	-26
25	-26	-21	-42	-39	-7	-8	-26	-18	-25	-10	9	-6	-19	-19	-106	-117	-51	-60	-33	31	25	16	7	2	-22
26	5	3	-1	-3	-6	-12	-17	-15	-10	0	1	-3	-4	-43	-15	-24	-1	-4	-32	-39	-21	-6	-2	0	-10
27	5	1	-5	-3	0	-4	8	-6	-9	-74	12	-18	7	5	2	6	-9	-43	-18	6	11	24	16	-59	-5
28	10	17	28	26	-76	37	-6	-14	-13	-5	-2	-3	-38	-9	-5	-20	-82	-29	2	11	1	7	-56	-12	-9
29	-2	-2	-1	23	-8	1	-41	-35	-8	-3	-28	-7	-27	-3	-1	-2	-14	-18	-9	-2	-9	-9	2	0	-8
30	-55	-19	8	19	7	14	38	-38	-7	-4	0	21	28	44	49	-11	-60	-40	7	-3	-12	-5	2	7	0
31	19	-23	0	10	18	0	2	23	-4	-38	-64	12	10	14	8	16	-19	-42	-9	5	2	9	22	-78	-4
Mean	-10	-1	-5	-7	-11	-2	-4	-12	-12	-6	-11	-20	-14	-11	-14	-14	-22	-13	-2	5	5	4	0	-4	-7
5Q Mean	2	0	2	2	-6	-7	-3	-1	1	2	0	0	-4	-5	0	-9	-13	-5	-1	-2	0	0	1	4	-1
5D Mean	-30	4	-3	-24	-28	9	-20	-42	-48	-25	-5	-29	-64	-26	-37	-23	-24	-12	-9	-4	3	7	-10	-12	-19

AU Index (Provisional Hourly mean values, unit nF) August 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	183	83	66	106	155	76	45	40	61	60	73	83	104	119	93	86	82	48	38	58	59	60	105	104	83
Q	49	73	77	53	37	24	21	57	77	65	66	38	32	20	14	18	37	76	94	90	56	50	63	63	52
Q	51	41	27	17	22	53	27	46	26	27	30	32	35	64	47	77	46	51	38	57	38	36	39	44	41
4	39	39	35	35	29	33	35	36	37	64	51	34	54	90	124	126	156	209	169	106	219	218	87	65	87
D	89	228	316	442	384	234	329	248	337	397	369	278	217	144	79	113	122	149	102	85	78	194	120	78	214
6	37	22	16	18	49	48	43	54	133	251	409	374	156	219	285	251	244	99	109	101	163	127	130	158	146
7	202	216	253	254	153	73	237	294	179	284	236	222	281	101	153	203	272	356	248	168	142	124	97	68	201
8	112	127	92	157	273	307	252	340	330	296	352	226	202	139	116	104	168	217	224	303	299	231	171	148	216
9	240	122	49	33	36	56	58	78	72	117	224	131	105	100	67	75	52	102	121	155	150	82	54	50	97
10	154	159	88	34	25	21	34	18	17	53	70	232	238	193	101	105	66	39	56	94	94	97	51	55	87
11	145	142	102	100	183	237	120	102	150	64	82	111	101	86	49	60	113	215	204	143	187	165	225	224	138
12	208	73	61	136	154	171	85	82	88	69	35	138	196	92	51	47	29	28	22	24	20	19	28	20	78
13	21	20	10	9	31	84	60	118	153	86	46	46	105	293	185	103	57	67	66	85	132	123	141	229	95
14	155	63	118	56	50	110	84	41	50	49	86	190	238	186	268	316	440	198	51	34	24	34	33	42	122
15	54	41	30	30	51	147	179	104	94	52	22	38	38	32	34	14	31	34	89	174	158	135	145	93	76
16	39	30	47	71	79	191	71	124	143	137	105	87	98	109	41	18	20	42	30	24	24	47	52	63	71
Q	59	29	22	45	38	14	13	23	27	20	17	22	34	27	18	18	24	46	50	55	37	28	38	58	32
18	63	74	57	23	20	35	39	47	46	41	37	68	87	62	51	27	46	61	51	58	53	54	69	71	52
19	51	50	52	50	59	40	67	62	69	57	50	31	37	75	87	86	127	96	110	113	70	91	132	123	74
D	120	251	123	149	143	401	258	254	300	320	215	176	237	76	50	25	27	42	38	30	34	27	27	27	140
21	29	19	15	22	15	18	17	21	24	27	58	150	180	114	102	107	238	414	304	135	129	53	34	30	94
22	34	38	36	49	90	147	136	78	82	74	63	94	111	98	222	218	181	257	254	344	287	245	234	270	152
D	242	356	227	270	394	361	276	90	80	58	28	35	56	52	50	34	51	93	144	158	198	243	222	146	161
24	184	135	87	96	101	68	60	88	23	40	31	15	16	17	12	32	40	72	23	31	99	144	46	28	62
Q	13	13	48	53	52	30	22	30	20	25	19	11	58	113	113	69	18	26	31	39	54	54	58	83	44
26	116	123	94	101	139	129	203	206	123	85	53	51	130	158	113	90	60	75	94	58	86	51	75	30	102
27	88	42	93	102	67	104	82	59	66	60	122	137	137	151	128	88	116	213	291	220	171	87	75	65	115
28	66	59	64	52	43	33	19	23	22	18	13	16	15	17	16	21	22	37	41	66	99	107	115	125	46
29	174	188	167	188	125	178	171	142	85	152	288	194	141	89	33	25	19	37	44	56	77	71	57	56	115
30	36	35	20	21	21	25	37	63	41	76	85	131	116	65	40	49	31	44	55	50	29	39	36	43	50
Q	25	17	21	46	63	47	24	27	30	24	32	27	29	33	45	38	33	20	31	32	23	39	28	23	32
Mean	99	93	81	90	99	112	100	96	96	101	108	110	115	101	89	85	95	111	103	101	106	99	89	86	99
5Q Mean	39	34	39	42	42	33	21	36	36	32	32	26	37	51	47	44	31	43	48	54	41	41	45	54	39
5D Mean	137	217	191	232	232	243	247	192	195	226	182	161	180	94	110	118	130	179	157	157	147	166	140	117	173

AL Index (Provisional Hourly mean values, unit nT)

August 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	-259	-41	-38	-144	-276	-141	-10	-8	-12	-25	-40	-135	-178	-130	-92	-168	-142	-25	-16	-25	-55	-115	-78	-103	-94
Q	-39	-59	-117	-77	-14	-11	-11	-33	-75	-95	-44	-39	-43	-37	-35	-33	-53	-89	-211	-82	-29	-32	-50	-41	-56
Q	-29	-28	-22	-22	-9	2	-12	-13	-23	-27	-36	-39	-46	-57	-47	-43	-127	-107	-41	-24	-41	-19	-26	-27	-36
4	-22	-24	-15	-9	-1	3	4	-4	-13	-22	-41	-51	-30	-36	-177	-199	-100	-368	-445	-41	-140	-124	-68	-37	-82
D	-35	-126	-272	-735	-748	-406	-450	-343	-329	-523	-415	-496	-370	-261	-287	-196	-171	-175	-130	-50	-54	-117	-112	-131	-289
6	-36	-25	-21	-21	-20	-22	-18	-44	-48	-284	-461	-334	-151	-310	-388	-227	-306	-125	-101	-92	-226	-134	-111	-143	-152
7	-192	-477	-376	-347	-128	-34	-230	-427	-258	-240	-618	-573	-430	-118	-184	-263	-507	-413	-210	-222	-225	-109	-65	-40	-279
8	-69	-86	-94	-171	-254	-369	-481	-484	-321	-373	-371	-231	-271	-195	-210	-170	-179	-288	-331	-408	-450	-321	-199	-182	-271
9	-469	-108	-38	-25	-60	-68	-68	-261	-219	-119	-390	-274	-160	-110	-199	-212	-120	-148	-198	-295	-161	-66	-33	-22	-159
10	-89	-220	-109	-41	-10	-108	-61	-20	-42	-57	-79	-234	-383	-386	-169	-178	-148	-115	-53	-196	-121	-104	-68	-53	-127
11	-255	-258	-100	-155	-259	-222	-156	-386	-363	-114	-163	-163	-129	-151	-64	-42	-235	-442	-433	-149	-152	-281	-342	-290	-221
12	-187	-94	-29	-224	-244	-308	-154	-116	-231	-148	-57	-186	-285	-200	-165	-158	-105	-98	-65	-20	-20	-23	-33	-21	-132
13	-19	-16	-14	-18	-12	-22	-21	-69	-112	-75	-95	-61	-68	-377	-384	-242	-115	-97	-54	-48	-94	-214	-134	-357	-113
14	-243	-45	-155	-144	-63	-73	-108	-59	-91	-58	-55	-340	-484	-346	-596	-496	-628	-246	-89	-29	-24	-27	-25	-23	-185
15	-43	-80	-22	-17	-85	-128	-264	-187	-58	-39	-40	-52	-50	-31	-40	-32	-41	-57	-184	-244	-184	-117	-205	-101	-96
16	-37	-25	-79	-89	-175	-222	-353	-346	-319	-215	-34	-64	-102	-172	-43	-41	-32	-51	-45	-38	-43	-42	-59	-57	-112
Q	-71	-33	-22	-24	-31	-13	-21	-30	-25	-32	-33	-32	-39	-40	-49	-70	-39	-35	-61	-44	-20	-34	-34	-37	-36
18	-47	-62	-17	-10	-3	-9	-12	-18	-29	-35	-35	-68	-114	-63	-87	-53	-97	-59	-31	-28	-16	-19	-36	-70	-42
19	-16	-38	-45	-45	-46	-20	-63	-64	-99	-47	-25	-31	-40	-53	-85	-175	-146	-127	-202	-128	-24	-77	-149	-68	-76
D	-48	-181	-320	-288	-265	-499	-356	-276	-193	-154	-218	-371	-216	-29	-30	-28	-22	-20	-15	-6	-11	-12	-15	-27	-150
21	-23	-20	-18	-14	-21	-15	-18	-18	-18	-23	-44	-185	-384	-203	-210	-269	-311	-417	-335	-117	-43	-15	-20	-20	-115
22	-27	-23	-21	-41	-54	-37	-194	-281	-162	-39	-46	-63	-561	-898	-944	-664	-370	-528	-493	-342	-625	-730	-606	-278	-334
D	-361	-510	-980	-585	-647	-945	-423	-104	-52	-99	-190	-129	-144	-42	-28	-19	-61	-129	-211	-309	-300	-539	-399	-271	-312
24	-200	-202	-115	-101	-108	-35	-51	-113	-103	-25	-27	-24	-23	-25	-31	-61	-145	-158	-65	-47	-105	-312	-52	-18	-89
Q	-19	-32	-104	-132	-74	-47	-22	-46	-17	-20	-24	-25	-45	-178	-120	-57	-42	-55	-56	-79	-91	-60	-26	-72	-60
26	-197	-387	-195	-177	-202	-300	-293	-393	-106	-21	-45	-83	-181	-252	-183	-253	-166	-113	-117	-65	-71	-104	-114	-15	-168
27	-36	-28	-134	-148	-90	-147	-140	-31	-36	-238	-72	-265	-335	-404	-250	-231	-199	-309	-276	-228	-127	-42	-55	-98	-163
28	-90	-50	-38	-5	-1	-13	-10	-4	-10	-20	-27	-30	-34	-24	-24	-32	-43	-111	-98	-106	-76	-73	-115	-123	-48
29	-377	-374	-307	-372	-175	-135	-192	-114	-73	-144	-352	-186	-175	-86	-46	-17	-19	-40	-34	-107	-71	-21	-182	-81	-153
30	-40	-16	-14	-11	-12	-35	-18	-49	-109	-177	-157	-205	-267	-422	-165	-19	-28	-67	-177	-87	-10	-21	-19	-20	-89
Q	-10	-4	0	-6	-116	-139	-29	-16	-23	-26	-37	-61	-33	-33	-31	-98	-58	-77	-120	-31	-17	-20	-15	-20	-43
Mean	-115	-118	-123	-135	-135	-145	-136	-140	-115	-113	-137	-162	-186	-182	-173	-153	-153	-164	-157	-118	-116	-126	-111	-91	-138
5Q Mean	-33	-31	-53	-52	-48	-41	-19	-27	-32	-40	-34	-39	-41	-69	-56	-60	-63	-72	-97	-52	-39	-33	-30	-39	-46
5D Mean	-132	-263	-393	-399	-368	-384	-330	-286	-198	-211	-297	-326	-344	-269	-294	-234	-226	-253	-211	-185	-243	-301	-239	-149	-272

AE Index (Provisional Hourly mean values, unit nT)

August 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	442	125	106	252	433	218	56	50	75	86	114	219	283	251	186	254	225	74	55	83	115	175	183	207	178
Q	88	133	195	132	52	37	33	92	154	161	112	78	77	59	50	52	90	166	305	173	85	83	114	106	109
Q	82	71	50	40	32	51	40	60	50	56	68	73	83	122	95	120	174	159	80	81	80	56	66	71	77
4	61	63	51	45	30	29	30	42	52	88	94	86	85	126	303	326	257	577	614	147	360	343	156	102	169
D	125	354	589	1178	1133	641	781	592	668	921	784	775	587	406	367	310	293	324	233	137	134	312	233	211	504
6	73	48	38	39	70	71	63	99	181	535	871	709	308	530	673	479	551	225	211	193	389	262	242	303	298
7	395	693	630	602	282	108	469	722	438	525	855	795	711	220	338	467	779	769	458	391	368	234	164	108	480
8	183	214	187	329	529	677	734	825	652	670	724	458	473	334	327	276	347	506	555	711	749	553	372	331	488
9	710	231	88	59	97	124	126	340	292	236	615	407	266	210	266	288	172	250	319	450	312	150	89	73	257
10	244	379	198	77	36	129	96	40	61	111	150	467	622	579	272	284	215	155	110	290	215	203	121	109	215
11	401	400	203	257	443	460	277	490	514	179	246	275	231	238	115	103	338	658	637	292	340	447	568	515	360
12	397	168	91	361	399	481	240	198	321	218	93	325	482	294	217	207	136	127	88	45	41	43	62	42	211
13	41	36	25	27	44	107	82	187	265	162	142	108	173	670	570	346	173	165	120	134	227	339	277	588	209
14	399	110	275	201	114	184	193	101	142	107	141	530	723	532	864	813	1068	446	140	64	49	62	59	66	308
15	97	122	53	48	136	276	444	292	153	92	63	90	89	64	75	46	73	92	274	419	342	252	351	195	173
16	77	56	127	162	255	414	425	470	463	353	141	152	201	282	85	60	53	93	76	62	68	90	112	122	183
17	132	63	45	70	28	70	35	54	53	54	51	55	74	68	68	89	63	81	111	100	58	62	73	96	69
18	111	138	75	33	24	45	52	66	76	78	74	138	202	126	139	81	144	121	82	87	70	74	106	143	95
19	68	90	98	97	106	61	131	127	169	105	77	63	78	129	173	262	274	224	312	242	95	169	282	193	151
D	169	432	444	438	409	902	615	531	494	476	435	548	454	106	81	54	49	63	54	37	46	41	42	55	291
21	53	40	33	37	37	34	37	40	43	52	103	336	565	317	312	378	550	831	640	252	172	69	55	50	210
D	62	63	58	91	146	185	331	360	246	115	110	158	672	997	1166	883	552	785	747	687	913	975	840	548	487
D	604	867	1209	856	1043	1307	700	195	132	158	219	164	200	95	79	53	113	223	355	469	499	784	622	417	473
24	385	338	203	199	211	105	112	202	128	66	60	40	40	44	45	94	186	231	88	79	204	457	98	46	152
Q	33	46	153	187	127	77	45	77	38	46	45	38	104	291	234	127	61	82	88	119	146	115	85	157	105
26	314	511	290	279	343	430	498	601	229	108	99	135	312	410	296	344	227	188	211	124	158	155	190	46	271
27	125	71	229	251	159	252	222	90	103	298	194	402	472	555	380	320	317	523	568	448	300	130	131	164	279
28	158	110	103	57	45	47	31	28	34	39	42	47	50	42	41	53	66	149	139	173	175	180	231	249	95
29	552	563	475	561	301	313	364	257	159	297	641	380	317	177	79	43	39	78	78	164	148	93	240	139	269
30	77	51	35	32	33	61	57	113	152	253	243	337	383	488	206	70	59	111	233	137	40	62	55	63	140
Q	37	23	22	53	180	187	54	44	55	51	70	90	63	68	77	137	91	98	152	64	41	60	44	45	75
Mean	215	213	205	227	236	259	237	238	212	216	247	273	302	284	263	239	249	276	262	221	223	226	202	179	238
5Q Mean	74	67	93	96	92	76	41	65	70	73	69	66	80	121	104	105	95	117	147	107	82	75	76	95	87
5D Mean	271	481	586	633	602	628	579	480	395	439	480	488	524	364	406	353	357	432	369	344	392	469	380	267	446

AO Index (Provisional Hourly mean values, unit nT)

August 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean	
Q	1	-37	21	13	-18	-60	-32	16	15	24	17	16	-25	-36	-5	0	-40	-30	11	10	15	1	-26	13	0	-5
Q	2	4	-19	-11	11	6	4	11	0	-14	10	0	-4	-4	-7	-9	-7	-7	-6	-58	3	12	8	6	10	-2
Q	3	10	6	2	-1	6	27	7	15	1	0	-2	-2	-4	2	0	16	-39	-27	-1	15	-1	7	5	7	2
Q	4	8	7	9	12	14	18	19	15	11	20	4	-7	11	26	-26	-35	27	-79	-137	32	39	46	8	13	2
D	5	26	50	21	-146	-181	-86	-60	-47	3	-62	-23	-108	-76	-57	-103	-40	-23	-12	-13	17	11	38	4	-25	-37
D	6	0	-1	-2	-1	14	13	12	4	42	-16	-25	19	2	-45	-50	11	-30	-12	3	4	-31	-3	9	7	-3
D	7	4	-130	-60	-46	12	19	3	-65	-39	21	-190	-174	-74	-8	-15	-29	-117	-27	18	-27	-40	7	15	13	-38
D	8	21	20	-1	-7	9	-30	-114	-71	4	-38	-9	-2	-33	-27	-46	-32	-5	-35	-52	-75	-44	-13	-16	-27	
D	9	-114	7	5	3	-11	-5	-4	-91	-72	0	-82	-70	-26	-4	-65	-68	-33	-22	-37	-69	-5	8	10	13	-30
D	10	32	-30	-10	-3	7	-43	-13	0	-12	-1	-4	0	-72	-95	-34	-36	-40	-37	1	-50	-13	-3	-8	1	-19
D	11	-54	-57	0	-27	-37	7	-18	-141	-106	-24	-40	-25	-13	-32	-7	8	-55	-112	-114	-3	17	-57	-57	-32	-41
D	12	10	-10	15	-43	-44	-68	-33	-16	-70	-38	-11	-23	-44	-53	-56	-55	-37	-34	-20	1	0	-1	-2	0	-26
D	13	1	1	-1	-3	8	30	19	24	20	5	-23	-7	18	-41	-99	-69	-29	-14	6	17	18	-45	3	-62	-9
D	14	-42	8	-18	-43	-6	18	-11	-8	-19	-4	15	-74	-122	-79	-163	-89	-93	-23	-18	2	0	3	3	8	-31
D	15	4	-18	4	6	-16	9	-42	-41	17	6	-8	-6	-5	0	-2	-8	-4	-11	-47	-34	-12	8	-29	-4	-9
D	16	1	2	-15	-8	-47	-15	-140	-110	-87	-38	34	11	-1	-31	0	-10	-5	-4	-7	-6	-8	2	-3	2	-20
Q	17	-5	-2	0	9	3	0	-3	-3	0	-5	-7	-4	-2	-6	-14	-25	-6	4	-5	5	7	-2	2	9	-2
Q	18	8	5	20	6	7	12	12	13	8	2	0	0	-12	0	-17	-13	-25	0	9	14	17	16	15	1	4
Q	19	17	5	2	2	5	9	1	0	-15	4	12	0	-1	10	0	-44	-9	-14	-44	-7	22	6	-7	27	0
D	20	35	34	-98	-68	-60	-49	-48	-11	52	82	-1	-96	10	23	9	-1	2	10	11	11	10	7	5	0	-5
D	21	2	0	-1	4	-2	1	0	1	2	1	6	-17	-101	-43	-53	-80	-36	-1	-15	9	42	18	6	4	-10
D	22	3	7	7	3	17	54	-29	-101	-39	17	8	14	-224	-398	-360	-222	-94	-135	-118	1	-168	-241	-185	-3	-91
D	23	-59	-76	-376	-157	-126	-291	-73	-6	13	-20	-80	-46	-43	4	11	7	-4	-18	-33	-74	-50	-147	-88	-62	-75
Q	24	-8	-33	-13	-2	-3	16	4	-12	-39	7	2	-3	-3	-3	-8	-13	-52	-42	-20	-7	-3	-83	-2	4	-13
Q	25	-2	-9	-27	-39	-10	-8	0	-7	1	2	-1	-6	6	-32	-3	5	-11	-14	-12	-20	-18	-2	14	5	-8
Q	26	-39	-131	-50	-38	-31	-85	-44	-93	8	31	3	-15	-25	-46	-34	-81	-52	-18	-11	-3	7	-26	-18	7	-32
Q	27	25	6	-20	-22	-11	-21	-28	13	14	-88	24	-63	-98	-126	-60	-71	-41	-47	7	-3	21	22	10	-16	-23
Q	28	-11	4	12	23	20	9	3	9	5	0	-6	-6	-8	-3	-3	-4	-10	-36	-28	-20	11	16	0	1	0
Q	29	-101	-92	-69	-91	-24	21	-10	13	5	3	-31	4	-16	1	-6	4	0	-1	4	-25	3	24	-62	-11	-19
Q	30	-1	9	3	4	3	-4	8	7	-33	-50	-35	-36	-74	-177	-62	14	1	-11	-60	-18	9	8	7	10	-19
Q	31	6	6	9	19	-25	-45	-2	4	3	-1	-2	-16	-2	0	6	-29	-12	-27	-44	0	2	9	5	1	-5
Mean		-8	-12	-21	-22	-18	-16	-18	-21	-9	-5	-14	-25	-34	-40	-40	-33	-28	-25	-26	-8	-5	-13	-10	-2	-19
5Q Mean		2	1	-7	-4	-3	-4	1	4	1	-3	0	-5	-1	-8	-4	-8	-15	-14	-24	0	0	4	6	6	-3
5D Mean		1	-23	-101	-82	-67	-70	-41	-46	-2	7	-57	-82	-81	-87	-91	-57	-47	-36	-27	-14	-47	-67	-49	-15	-49

AU Index (Provisional Hourly mean values, unit nT) September 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
Q 1	38	38	26	26	29	31	31	47	46	35	17	15	22	28	19	26	25	23	22	20	19	20	20	22	27
2	22	25	33	63	48	36	59	47	41	54	58	84	135	162	183	252	231	407	385	284	165	239	179	177	140
D 3	114	67	80	82	163	254	455	244	168	162	240	281	215	154	297	247	396	295	269	223	150	135	201	185	212
4	145	151	170	181	109	213	179	117	153	173	232	196	234	128	147	148	71	71	79	137	183	282	191	105	158
5	220	164	114	119	119	102	105	159	154	123	178	232	110	110	87	78	70	82	74	123	164	140	71	81	124
6	77	115	171	83	136	104	72	75	95	78	43	85	118	129	108	127	178	206	265	240	92	195	184	208	133
7	169	133	106	167	75	69	85	85	56	123	277	223	177	154	95	54	166	166	134	131	118	138	221	173	137
8	170	140	136	170	164	168	156	156	257	250	275	263	120	214	191	252	228	115	140	86	49	71	82	189	169
D 9	66	158	273	269	203	509	240	186	239	283	73	316	449	442	327	114	126	121	242	181	233	295	204	203	240
D 10	285	309	261	338	343	265	293	273	146	95	134	324	264	288	251	220	391	235	137	61	99	82	173	114	224
11	212	272	163	214	189	231	176	190	212	184	194	172	203	137	88	100	238	253	309	287	213	112	76	60	187
Q 12	84	77	35	37	73	40	65	32	7	7	4	5	2	5	1	11	23	14	17	41	83	68	51	36	34
Q 13	31	11	20	18	40	20	22	18	30	29	17	18	14	15	15	13	21	25	24	30	60	75	58	64	29
14	47	46	76	114	91	134	128	95	92	60	82	81	48	26	35	31	41	32	49	91	118	138	74	42	74
15	44	107	136	168	185	68	35	42	71	54	54	52	86	129	87	101	116	159	91	82	112	65	32	37	88
16	45	39	54	65	65	113	123	62	75	50	26	18	62	103	78	72	67	173	200	233	182	140	103	57	92
D 17	59	144	253	354	308	388	393	214	142	121	134	260	345	299	219	152	293	193	199	109	133	262	195	179	223
18	117	83	105	67	68	207	75	52	48	104	85	68	106	87	28	42	34	75	71	140	187	109	93	140	91
19	101	72	73	35	39	19	14	25	26	68	54	89	47	47	39	36	66	60	89	149	48	29	33	31	54
20	19	25	19	19	10	48	81	67	60	50	33	48	34	37	28	20	22	30	28	40	108	87	89	64	45
21	31	19	18	12	11	11	19	22	23	15	5	5	4	3	4	8	13	11	26	48	89	133	156	256	39
22	127	147	144	183	108	85	55	43	18	19	33	23	42	44	42	23	27	42	41	81	105	65	97	77	70
23	58	69	79	132	112	73	76	22	20	19	35	97	85	33	21	16	15	13	24	27	44	29	25	17	48
Q 24	11	14	9	26	21	17	15	10	10	8	14	11	9	10	6	15	18	15	22	17	18	26	47	47	17
25	64	72	59	28	18	17	25	16	28	70	60	64	46	90	70	69	21	33	27	63	55	44	27	18	45
26	46	86	44	35	31	33	24	24	11	11	13	12	16	17	38	42	116	58	21	14	17	18	15	11	31
Q 27	14	24	22	24	26	23	40	28	28	30	18	23	32	31	29	19	14	13	19	26	20	23	23	19	24
28	18	20	18	35	35	37	26	30	27	36	51	45	98	80	72	131	159	202	188	120	145	278	311	216	99
D 29	93	69	108	304	248	226	116	298	79	85	143	164	229	174	241	204	158	122	143	197	110	109	158	89	161
30	107	163	143	170	131	66	120	116	93	41	64	126	101	83	194	225	282	313	200	149	144	100	127	114	140
Mean	87	95	98	117	106	120	110	93	81	81	88	113	115	108	101	94	120	118	117	114	108	116	110	101	105
5Q Mean	35	32	22	26	37	26	34	27	24	21	14	14	15	17	14	16	20	18	20	26	40	42	39	37	26
5D Mean	123	149	195	269	253	328	299	243	154	149	144	269	300	271	267	187	272	193	198	154	145	176	186	154	211

AL Index (Provisional Hourly mean values, unit nT) September 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
Q 1	-56	-83	-81	-52	-24	-31	-30	-27	-32	-22	-25	-29	-37	-33	-28	-30	-25	-27	-31	-27	-24	-17	-12	-2	-33
2	3	5	11	-15	-6	-10	0	0	-4	-5	-17	-31	-46	-138	-302	-391	-249	-257	-552	-254	-91	-356	-175	-128	-125
D 3	-269	-116	-158	-255	-236	-361	-799	-626	-490	-293	-496	-377	-496	-254	-493	-471	-567	-511	-449	-464	-238	-229	-629	-564	-410
4	-280	-516	-369	-298	-170	-209	-522	-268	-304	-604	-276	-617	-525	-265	-267	-286	-180	-88	-159	-182	-233	-424	-865	-1180	-379
5	-423	-302	-103	-301	-331	-427	-558	-386	-385	-179	-367	-426	-130	-259	-239	-135	-154	-217	-308	-184	-333	-246	-67	-58	-272
6	-73	-200	-364	-247	-270	-439	-226	-316	-203	-75	-39	-38	-94	-247	-198	-215	-178	-218	-304	-279	-36	-199	-345	-251	-211
7	-316	-227	-216	-351	-117	-48	-198	-330	-51	-127	-653	-376	-315	-613	-263	-151	-408	-303	-334	-183	-109	-232	-327	-277	-272
8	-380	-169	-177	-357	-329	-477	-284	-410	-656	-422	-334	-325	-390	-472	-433	-497	-402	-231	-323	-41	-48	-87	-175	-244	-319
D 9	-34	-60	-520	-503	-294	-503	-370	-347	-533	-451	-847	-949	-1167	-548	-346	-171	-156	-91	-128	-491	-388	-179	-213	-208	-396
D 10	-515	-829	-718	-609	-426	-330	-421	-687	-870	-522	-722	-762	-609	-525	-440	-792	-600	-719	-748	-619	-402	-465	-391	-441	-590
11	-440	-554	-320	-295	-389	-364	-256	-396	-247	-222	-273	-304	-396	-253	-133	-137	-574	-619	-608	-361	-298	-83	-19	-8	-315
Q 12	-26	-164	-56	-23	-95	-79	-33	-11	-13	-15	-21	-26	-29	-30	-31	-31	-50	-51	-48	-43	-174	-86	-35	-23	-50
Q 13	-17	-11	-14	-21	-59	-11	-15	-14	-13	-16	-19	-15	-12	-15	-19	-19	-19	-16	-16	-15	-36	-51	-90	-49	-24
14	-12	-11	-28	-137	-166	-165	-153	-142	-122	-84	-103	-57	-41	-15	-19	-23	-42	-25	-20	-207	-98	-193	-97	-28	-83
15	-53	-160	-249	-325	-176	-82	-58	-78	-248	-205	-90	-89	-87	-178	-152	-159	-75	-159	-80	-34	-30	-28	-45	-63	-121
16	-54	-71	-84	-85	-69	-106	-319	-172	-83	-79	-65	-28	-56	-242	-224	-109	-56	-226	-255	-336	-255	-145	-109	-149	-141
D 17	-94	-379	-757	-708	-568	-620	-658	-646	-676	-395	-682	-346	-234	-211	-414	-274	-469	-771	-589	-618	-581	-313	-104	-139	-469
18	-103	-65	-226	-232	-212	-443	-269	-97	-53	-254	-564	-205	-406	-177	-46	-53	-82	-130	-125	-100	-196	-195	-135	-360	-197
19	-420	-221	-75	-196	-89	-19	-11	-20	-22	-50	-47	-264	-123	-79	-58	-77	-176	-153	-196	-207	-97	-35	-41	-19	-112
20	-32	-10	-16	-13	-15	-50	-206	-225	-38	-39	-47	-137	-138	-89	-78	-61	-72	-44	-32	-86	-114	-162	-52	-50	-75
21	-20	-17	-18	-15	-8	-10	-38	-16	-122	-66	-26	-30	-32	-24	-24	-27	-60	-101	-71	-54	-127	-141	-278	-307	-68
22	-414	-398	-411	-314	-63	-42	-64	-34	-36	-23	-22	-42	-42	-40	-49	-76	-34	-63	-53	-66	-62	-38	-178	-136	-113
23	-34	-32	-116	-205	-315	-259	-175	-49	-29	-26	-32	-211	-101	-52	-24	-24	-35	-36	-26	-28	-54	-35	-5	-9	-80
Q 24	-13	-10	-9	-7	-5	-1	0	-5	-9	-15	-21	-21	-24	-23	-20	-16	-23	-15	-36	-29	-31	-31	-26	-50	-18
25	-132	-61	-15	-10	-2	-1	-7	-11	-8	-61	-150	-113	-24	-151	-225	-76	-24	-30	-42	-110	-19	-15	-18	-17	-55
26	-102	-268	-122	-24	-34	-126	-43	-25	-24	-23	-25	-38	-29	-24	-25	-82	-393	-250	-24	-44	-91	-15	-12	-12	-78
Q 27	-8	-23	-12	-8	-13	-85	-83	-111	-63	-60	-41	-35	-112	-39	-43	-33	-31	-33	-27	-38	-13	-12	-14	-16	-40
28	-9	0	-7	-18	-92	-68	-51	-42	-11	-72	-86	-70	-119	-452	-327	-405	-274	-235	-131	-37	-281	-620	-304	-186	-162
D 29	-71	-46	-260	-603	-706	-524	-928	-452	-441	-808	-724	-604	-846	-794	-440	-265	-575	-201	-171	-511	-163	-74	-473	-248	-455
30	-268	-359	-75	-167	-380	-315	-237	-254	-328	-106	-282	-346	-326	-200	-452	-575	-499	-814	-566	-173	-158	-355	-420	-501	-340
Mean	-155	-179	-185	-213	-188	-206	-233	-206	-203	-177	-236	-230	-232	-214	-193	-188	-216	-221	-215	-194	-159	-168	-188	-190	-200
5Q Mean	-24	-58	-34	-22	-39	-41	-32	-33	-26	-25	-25	-25	-42	-28	-28	-25	-29	-28	-31	-30	-55	-39	-35	-28	-32
5D Mean	-196	-286	-482	-535	-446	-467	-635	-551	-602	-493	-694	-607	-670	-466	-426	-394	-473	-458	-417	-540	-354	-252	-362	-320	-463

September 1992

AE Index (Provisional Hourly mean values, unit nT)

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
Q 1	94	121	108	78	53	63	63	76	80	58	43	45	59	62	48	57	51	51	55	49	45	38	34	25	61
2	19	19	21	79	54	47	58	48	46	59	76	116	183	301	486	645	482	664	939	539	257	597	355	306	266
D 3	385	184	239	337	400	615	1255	871	659	456	737	659	712	409	792	719	964	807	719	689	390	365	831	750	623
4	426	668	541	480	280	422	701	386	458	779	510	814	760	394	415	436	252	161	239	320	417	707	1057	1287	538
5	643	467	218	421	451	530	664	546	541	304	546	658	242	370	327	214	225	299	383	308	499	386	138	140	397
6	150	316	536	331	407	544	299	392	298	153	83	124	212	378	308	343	357	424	570	520	129	395	529	460	344
7	486	361	323	518	193	118	284	416	108	252	931	601	493	767	359	207	575	471	469	316	229	371	549	450	410
8	551	311	315	528	494	646	441	567	915	674	611	590	512	688	625	750	630	346	464	129	98	160	258	434	489
D 9	101	219	794	773	498	1014	611	533	773	734	920	1266	1617	932	675	286	284	213	372	672	622	476	419	411	636
D 10	801	1139	979	947	769	595	714	961	1017	618	857	1087	875	815	692	1013	992	955	885	681	502	547	565	555	815
11	653	828	485	510	579	595	433	587	459	407	468	478	601	392	223	288	813	873	919	649	512	196	97	69	503
Q 12	110	242	93	61	169	120	98	44	21	23	25	32	31	36	34	43	73	66	66	85	258	155	88	60	85
Q 13	50	24	35	40	99	31	38	33	44	45	37	33	27	32	35	34	41	42	41	47	97	128	149	115	54
14	61	58	105	252	258	300	282	238	214	145	186	139	91	41	56	55	84	58	71	299	218	333	172	71	158
15	97	268	386	494	361	151	94	121	319	261	145	143	174	308	240	261	192	319	171	116	144	95	78	100	210
16	100	111	139	150	135	220	443	235	159	130	92	47	119	346	302	182	123	399	456	570	438	286	213	206	233
D 17	154	524	1011	1063	877	1009	1052	862	819	518	816	607	580	511	635	427	764	965	789	728	715	576	300	320	693
18	221	149	332	301	281	650	345	150	102	359	650	274	514	266	75	97	117	206	197	241	384	306	229	501	289
19	522	295	149	231	128	39	26	46	48	118	101	355	171	127	98	115	242	214	286	357	146	65	75	51	167
20	52	37	36	33	25	99	289	292	98	90	81	186	173	127	107	82	94	75	61	128	223	250	143	116	121
21	52	38	37	28	20	21	59	40	146	81	32	36	37	28	29	36	73	113	98	103	217	275	435	564	108
22	543	546	555	497	173	128	120	78	54	43	57	67	85	86	92	100	61	106	95	148	168	104	276	213	183
23	93	103	196	338	427	333	252	71	50	46	69	309	188	86	46	41	50	50	52	57	98	66	32	27	128
Q 24	26	26	20	33	26	18	14	16	20	24	36	33	34	34	27	33	42	31	60	47	50	59	74	99	37
25	196	134	74	39	22	18	33	29	36	131	211	179	72	242	296	147	47	65	70	175	75	60	47	36	101
26	150	375	168	60	66	160	68	51	37	35	39	51	45	42	65	125	509	309	46	60	110	34	29	25	111
Q 27	23	48	35	32	39	109	125	140	91	91	59	59	145	72	73	54	46	47	47	65	34	36	39	36	64
28	28	20	26	53	128	106	78	73	39	109	137	116	219	533	400	537	434	437	319	157	428	899	616	403	262
D 29	165	117	369	908	956	751	1044	750	520	895	867	768	1076	969	683	470	733	324	315	709	275	185	633	338	617
30	375	524	219	338	512	381	358	370	423	148	347	474	429	284	647	800	782	1128	767	323	303	456	547	616	481
Mean	244	275	284	331	296	327	344	300	286	259	325	344	349	324	296	284	337	340	334	309	269	286	300	292	306
5Q Mean	60	92	58	48	77	68	67	61	51	48	40	40	59	47	43	44	50	47	53	58	96	83	76	67	60
5D Mean	321	436	678	805	700	796	935	795	757	644	839	877	972	739	695	583	747	652	616	695	500	429	549	474	676

September 1992

AO Index (Provisional Hourly mean values, unit nT)

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
Q 1	-8	-21	-26	-12	2	0	0	10	7	6	-3	-6	-6	-1	-3	-1	0	-1	-3	-2	-1	1	3	9	-2
2	13	16	22	23	21	12	29	23	18	24	20	26	44	12	-58	-69	-8	74	-82	14	37	-58	2	24	7
D 3	-76	-24	-38	-85	-35	-52	-171	-190	-159	-64	-127	-47	-139	-49	-97	-111	-84	-107	-89	-119	-43	-46	-213	-188	-98
4	-67	-182	-98	-57	-29	1	-170	-75	-214	-21	-209	-144	-68	-59	-68	-53	-8	-39	-22	-24	-70	-336	-536	-109	
5	-100	-68	5	-90	-105	-161	-226	-113	-114	-27	-93	-96	-9	-74	-75	-27	-41	-66	-115	-29	-83	-52	2	11	-73
6	2	-41	-95	-81	-65	-166	-76	-120	-53	1	1	23	11	-58	-44	-43	0	-5	-19	-18	27	-1	-80	-20	-38
7	-72	-46	-54	-91	-20	9	-56	-121	3	-1	-187	-75	-68	-228	-83	-47	-120	-67	-99	-25	4	-46	-51	-51	-66
8	-104	-14	-19	-93	-81	-153	-63	-126	-198	-85	-28	-30	-134	-128	-120	-121	-86	-57	-90	22	0	-7	-45	-26	-74
D 9	16	48	-123	-116	-44	3	-64	-79	-146	-83	-385	-316	-358	-52	-9	-27	-14	14	57	-154	-76	57	-4	-2	-77
D 10	-114	-259	-227	-135	-41	-32	-63	-206	-361	-212	-293	-218	-172	-117	-93	-285	-104	-241	-304	-278	-150	-190	-107	-162	-182
11	-113	-140	-77	-40	-99	-65	-39	-102	-17	-18	-38	-65	-95	-57	-21	-18	-167	-182	-148	-36	-41	14	28	25	-63
Q 12	28	-43	-10	6	-10	-19	15	10	-2	-3	-7	-9	-13	-12	-14	-9	-12	-17	-14	0	-45	-8	7	6	-7
Q 13	6	0	3	0	-8	4	3	1	8	6	0	1	0	-1	-1	-1	1	4	4	7	11	11	-15	7	2
14	16	17	23	-11	-36	-14	-12	-22	-14	-11	-9	12	3	5	7	3	0	3	14	-57	10	-26	-11	7	-4
15	-3	-26	-55	-78	4	-6	-10	-17	-87	-74	-17	-17	0	-23	-31	-28	20	0	5	23	40	18	-6	-12	-16
16	-4	-15	-14	-9	-1	3	-97	-54	-3	-13	-18	-4	3	-68	-72	-17	5	-25	-26	-50	-35	-2	-2	-45	-23
D 17	-16	-116	-251	-176	-129	-115	-131	-215	-266	-136	-273	-42	55	43	-96	-60	-87	-288	-194	-253	-223	-24	45	20	-122
18	6	8	-59	-81	-71	-117	-96	-22	-2	-74	-238	-67	-149	-44	-8	-4	-23	-26	-26	19	-3	-42	-20	-109	-52
19	-158	-73	0	-79	-24	0	1	2	2	8	3	-86	-37	-15	-9	-19	-54	-45	-53	-29	-23	-2	-3	5	-28
20	-5	7	1	3	-2	0	-61	-78	10	5	-6	-43	-51	-24	-24	-19	-24	-6	-1	-22	-2	-36	18	6	-14
21	5	1	0	-1	1	0	-9	2	-48	-25	-9	-11	-13	-9	-9	-8	-22	-44	-21	-2	-18	-3	-60	-24	-13
22	-142	-124	-132	-64	22	21	-4	4	-8	-1	5	-8	0	1	-2	-25	-3	-10	-5	7	21	13	-40	-28	-21
23	11	18	-17	-36	-100	-92	-48	-13	-4	-3	1	-56	-7	-9	-1	-3	-9	-10	0	0	-4	-2	9	3	-15
Q 24	0	1	0	9	7	7	7	2	0	-3	-2	-4	-6	-5	-6	0	-2	0	-6	-5	-5	-2	10	-1	0
25	-33	5	21	8	7	7	8	2	9	4	-44	-23	10	-29	-76	-3	-1	1	-7	-23	17	14	4	0	-4
26	-27	-100	-38	5	-1	-45	-9	0	-5	-4	-5	-12	-5	-2	6	-18	-137	-95	-1	-14	-36	1	1	0	-22
Q 27	2	0	4	7	6	-30	-20	-41	-17	-14	-11	-5	-39	-3	-6	-6	-7	-9	-3	-5	3	5	4	1	-7
28	4	10	6	8	-27	-14	-11	-5	7	-17	-16	-12	-10	-185	-126	-136	-56	-16	28	41	-68	-170	3	15	-31
D 29	10	11	-75	-148	-228	-148	-405	-76	-180	-360	-289	-219	-307	-309	-98	-29	-207	-38	-13	-156	-25	17	-156	-78	-146
30	-80	-97	33	1	-124	-123	-57	-68	-117	-31	-108	-109	-111	-58	-128	-174	-107	-250	-182	-11	-6	-126	-145	-192	-99
Mean	-33	-41	-43	-47	-40	-42	-61	-56	-60	-47	-73	-57	-58	-52	-45	-45	-46	-50	-47	-39	-24	-25	-38	-44	-46
5Q Mean	5	-12	-5	2	0	-7	1	-3	0	-1	-4	-4	-12	-4	-6	-3	-4	-4	-4	-1	-7	1	1	4	-3
5D Mean	-36	-68	-142	-132	-95	-68	-166	-153	-222	-171	-273	-168	-184	-96	-78	-102	-99	-132	-108	-192	-103	-37	-87	-82	-125

AU Index (Provisional Hourly mean values, unit nT)

October 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
D	131	113	137	147	156	171	124	92	80	66	118	152	136	140	131	65	141	139	212	141	78	53	45	55	118
Q	53	83	127	82	47	57	41	42	61	109	51	76	119	69	53	71	89	57	53	42	44	30	36	34	64
Q	30	31	30	35	51	77	80	38	53	59	90	131	159	106	42	34	13	30	51	76	66	59	74	98	63
Q	98	83	104	178	72	54	38	21	26	22	19	19	16	15	15	11	12	12	16	17	18	26	18	19	39
Q	18	21	27	32	35	19	20	20	21	23	20	17	20	23	18	22	43	42	78	35	32	30	54	38	29
Q	61	74	124	200	157	41	27	19	30	58	60	55	32	70	60	100	93	83	77	64	55	29	27	35	68
Q	26	35	53	73	93	127	111	105	106	163	247	146	55	64	44	36	33	39	37	74	42	35	37	36	76
Q	47	55	55	92	49	67	63	43	39	40	25	17	18	21	27	27	27	33	31	58	87	102	102	84	50
Q	72	57	46	46	41	41	39	53	51	76	98	102	230	297	282	285	326	252	229	193	162	63	61	49	131
Q	40	26	22	37	32	21	23	61	96	95	116	121	93	76	57	49	31	30	31	35	26	49	99	75	56
Q	89	63	46	59	70	39	29	41	37	43	119	100	217	204	231	292	287	292	217	133	151	154	77	52	127
Q	59	77	87	73	161	179	195	233	273	154	195	216	366	286	208	121	138	85	97	52	49	55	42	27	143
Q	85	96	74	117	44	41	71	70	89	42	36	37	54	73	39	104	156	261	221	228	312	200	110	164	113
Q	156	131	99	85	64	78	64	85	93	141	81	58	82	62	54	41	41	42	57	100	127	93	96	111	85
Q	183	96	106	155	113	120	143	108	151	165	143	109	140	132	104	130	86	68	124	140	114	176	170	195	132
Q	190	198	166	145	155	145	115	142	151	167	153	79	90	86	78	31	77	66	54	49	32	82	121	99	111
Q	101	108	60	68	61	64	64	98	99	76	121	164	131	95	130	108	77	80	124	120	106	77	81	66	95
Q	75	94	117	115	88	76	70	60	49	45	23	42	85	77	103	76	82	114	85	76	145	118	131	252	92
Q	266	147	199	98	48	63	28	42	51	43	56	88	106	73	195	205	138	123	103	81	75	58	103	132	105
Q	192	232	86	150	63	80	53	54	33	31	33	50	66	55	56	48	28	22	25	30	32	36	43	67	65
Q	54	48	43	31	37	46	57	63	65	58	44	41	40	52	57	32	34	47	32	32	38	66	104	134	52
Q	114	51	36	55	49	33	31	35	38	40	40	38	50	58	46	54	59	44	33	34	44	51	52	53	47
Q	65	56	45	44	44	54	47	43	43	37	34	36	31	28	23	28	21	20	25	27	24	27	27	28	36
Q	30	28	23	23	33	34	33	30	34	32	28	29	30	30	33	32	36	42	27	27	27	30	30	47	31
Q	102	54	37	28	22	40	57	44	33	33	34	41	97	65	35	33	33	27	25	41	26	32	58	58	44
Q	129	144	109	89	66	116	158	99	80	61	50	37	61	59	41	35	26	22	65	75	155	170	201	220	95
Q	212	141	119	173	79	76	93	164	121	181	104	130	115	148	195	224	241	252	98	61	45	42	52	74	131
Q	85	98	115	57	75	111	110	104	128	185	113	153	71	104	113	139	130	148	81	112	137	105	132	122	114
Q	133	161	122	83	104	102	96	101	195	200	200	120	132	72	118	174	195	131	167	102	113	110	82	51	128
Q	54	52	51	52	103	94	76	85	80	126	85	190	124	157	151	104	135	122	92	103	161	141	101	77	105
Q	76	76	94	114	94	72	89	143	234	161	66	53	114	144	180	72	92	116	79	92	83	74	52	61	101
Mean	97	88	82	88	74	75	72	75	85	88	83	85	99	94	94	89	94	91	85	79	84	76	78	84	85
5Q Mean	39	36	33	33	40	46	47	38	43	41	43	50	56	47	34	29	29	36	42	39	37	42	57	69	42
5D Mean	143	117	114	126	122	129	130	139	164	153	152	145	177	155	151	142	160	135	139	99	79	87	78	80	130

AL Index (Provisional Hourly mean values, unit nT)

October 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
D	-443	-120	-215	-466	-460	-412	-309	-370	-101	-160	-351	-509	-539	-436	-331	-181	-379	-374	452	-237	-204	134	-32	-56	-303
Q	-144	-428	-194	-84	-155	-204	-208	-183	-219	-237	-165	-214	-300	-257	-246	-238	-233	-154	-209	-158	-113	-76	-148	-19	-191
Q	-23	-31	-60	-129	-126	-152	-71	-171	-229	-163	-216	-353	-811	-225	-187	-225	-132	-44	-79	-325	-236	-160	-145	-155	-164
Q	-140	-113	-333	-373	-163	-34	-28	-9	-6	-18	-21	-21	-24	-23	-25	-23	-20	-14	-10	-8	-9	-9	-15	-15	-61
Q	-27	-31	-66	-77	-44	-35	-27	-16	-13	-16	-21	-25	-28	-27	-26	-23	-32	-150	-162	-65	-53	-56	-112	-60	-50
Q	-76	-231	-404	-186	-184	-36	-40	-32	-41	-132	-204	-147	-57	-70	-148	-357	-227	-201	-170	-116	-67	-51	-10	-29	-134
Q	-43	-26	-46	-158	-133	-139	-134	-146	-204	-339	-276	-133	-29	-31	-50	-70	-66	-66	-43	-57	-31	-10	-9	-18	-94
Q	-96	-261	-115	-165	-91	-29	-25	-9	-11	-6	-11	-15	-16	-16	-21	-24	-39	-15	-25	-146	-216	-49	-15	-6	-59
Q	1	1	-1	-2	-1	2	8	15	6	-29	-436	-636	-679	-571	-575	-577	-438	-702	-493	-418	-388	-108	-159	-70	-260
Q	-9	-11	-15	-14	-16	-6	-19	-98	-186	-170	-177	-222	-296	-121	-90	-104	-114	-42	-46	-137	-37	-68	-288	-159	-102
Q	-122	-98	-128	-179	-53	-13	-11	-10	-10	-29	-229	-706	-533	-346	-360	-694	-663	-409	-422	-403	-328	-326	-59	-49	-257
Q	-146	-368	-338	-223	-455	-325	-356	-431	-555	-716	-559	-516	-1301	-711	-216	-126	-293	-225	-77	-41	-61	-174	-29	-15	-344
Q	-140	-393	-279	-116	-36	-17	-80	-59	-20	-9	-14	-14	-41	-85	-102	-139	-443	-499	-387	-357	-636	-176	-32	-187	-177
Q	-268	-153	-57	-62	-7	-124	-108	-212	-139	-66	-16	-14	-108	-204	-80	-85	-73	-62	-76	-197	-313	-251	-184	-621	-143
Q	-479	-430	-411	-107	-65	-377	-177	-106	-316	-605	-442	-240	-193	-277	-73	-281	-271	-125	-323	-537	-260	-268	-294	-470	-297
Q	-497	-268	-272	-207	-343	-186	-175	-143	-114	-187	-84	-37	-116	-164	-29	-74	-253	-298	-130	-18	-13	-65	-241	-146	-169
Q	-33	-55	-21	-29	-35	-139	-280	-76	-7	-37	-192	-399	-120	-92	-180	-310	-206	-272	-463	-204	-136	-107	-82	-39	-146
Q	-116	-101	-32	-19	-18	-30	-5	-23	-60	-5	-11	-37	-113	-232	-493	-225	-253	-266	-194	-119	-192	-211	-220	-347	-138
Q	-281	-280	-162	-2	5	-18	-4	-6	-16	-1	-20	-70	-104	-382	-586	-409	-232	-246	-261	-162	-45	-7	-58	-91	-143
Q	-194	-143	-279	-92	10	-39	4	3	1	-7	-25	-50	-129	-90	-36	-27	-13	-37	-49	-33	-45	-38	-25	-54	-58
Q	-72	-14	-2	0	2	-1	-53	-89	-5	1	-4	-12	-16	-14	-13	-25	-107	-112	-25	-23	-16	-190	-285	-245	-55
Q	-45	-11	-7	-5	-6	3	4	4	1	-4	-5	-11	-16	-25	-18	-78	-147	-92	-9	-35	-14	-7	-1	-48	-24
Q	-147	-85	-40	-9	-25	-31	0	-50	-39	-46	-23	-16	-16	-14	-14	-18	-14	-9	-6	1	-36	-7	-11	-8	-28
Q	-9	-4	-5	1	5	7	6	2	-1	-4	-7	-10	-32	-24	-21	-11	-15	-27	1	4	1	0	-1	-59	-8
Q	-244	-22	5	10	11	11	4	-26	-21	-19	-6	-16	-127	-151	-33	-15	-12	-7	-5	-108	-44	-6	-63	-29	-38
Q	-89	-9	-35	-42	-22	-25	-54	-34	-163	-90	-28	-22	-41	-41	-29	-36	-23	-52	-226	-347	-447	-352	-479	-521	-134
Q	-285	-334	-786	-454	-155	-126	-172	-272	-129	-261	-386	-518	-449	-539	-531	-545	-487	-627	-186	-63	-7	-58	-95	-263	-322
Q	-398	-270	-226	-199	-188	-251	-184	-251	-281	-426	-688	-444	-332	-279	-208	-233	-317	-426	-177	-287	-249	-130	-403	-368	-301
Q	-292	-258	-391	-415	-283	-290	-324	-260	-464	-333	-315	-462	-325	-259	-341	-328	-675	-659	-487	-404	-220	-107	-315	-78	-345
Q	-15	-43	-194	-159	-265	-262	-146	-204	-152	-509	-382	-314	-307	-444	-380	-219	-373	-313	-169	-176	-258	-181	-298	-117	-245
Q	-115	-132	-180	-188	-107	-49	-161	-293	-403	-297	-282	-40	-198	-576	-543	-157	-132	-158	-186	-157	-60	-74	-5	-6	-188
Mean	-160	-152	-170	-133	-109	-107	-100	-114	-125	-158	-180	-200	-222	-216	-193	-187	-215	-215	-178	-172	-152	-111	-132	-140	-160
5Q Mean	-55	-33	-34	-42	-37	-42	-29	-64	-57	-45	-54	-83	-80	-60	-52	-60	-60	-68	-54	-81	-68	-82	-110	-105	-61
5D Mean	-329	-302	-428	-333	-283	-306	-267	-287	-313	-415	-410	-449	-561	-444	-298	-292	-421	-402	-305	-256	-150	-148	-153	-176	-322

AE Index (Provisional Hourly mean values, unit nT)

October 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
D 1	575	234	353	614	617	584	434	463	183	228	469	662	676	576	464	248	521	514	666	380	284	188	79	112	422
2	197	512	322	166	203	262	250	226	282	347	217	292	421	327	300	310	323	212	263	202	158	108	185	54	256
Q 3	55	64	90	164	177	230	151	210	283	222	306	484	471	332	230	259	146	75	131	403	304	220	219	253	228
4	240	197	437	553	235	89	67	30	32	42	42	40	41	39	41	36	33	27	27	26	29	36	34	35	100
Q 5	46	54	94	109	80	55	48	37	35	41	42	43	49	51	45	46	76	194	241	101	86	88	167	100	80
6	138	306	529	388	341	78	68	52	73	191	264	202	90	141	208	459	321	286	249	181	124	80	39	65	203
7	70	62	100	231	226	266	245	253	311	503	524	279	84	96	95	108	100	107	82	132	73	47	48	55	171
8	144	317	171	258	141	97	90	54	51	47	36	33	36	39	50	53	68	50	57	204	304	152	118	92	111
9	71	55	48	49	43	39	31	37	45	107	535	739	910	869	858	862	765	956	723	613	551	172	220	120	392
10	50	38	38	52	49	28	43	161	284	266	294	344	389	197	148	154	146	73	78	173	65	119	388	235	159
11	212	162	174	238	124	53	42	52	48	74	349	806	750	551	591	987	951	702	640	537	480	480	137	102	385
D 12	207	446	426	297	616	505	552	665	829	871	755	733	1668	997	425	248	432	311	176	95	111	230	72	43	488
13	226	489	354	234	81	58	152	130	109	52	51	53	97	159	141	243	600	762	609	586	949	378	143	352	292
14	425	285	158	148	72	202	167	298	233	208	98	73	191	267	135	77	115	106	134	298	441	345	281	733	229
D 15	663	526	518	263	178	498	322	215	468	771	586	350	334	410	178	412	358	194	448	679	375	446	465	666	430
16	687	467	438	353	499	333	291	287	266	356	238	117	207	250	108	107	332	365	185	69	47	148	363	246	282
17	136	163	82	97	97	204	345	174	107	114	313	563	251	188	311	420	285	354	589	325	244	185	165	106	242
18	192	196	150	135	107	107	76	84	110	51	35	80	199	309	597	303	336	381	281	197	339	330	351	599	231
19	548	427	362	101	42	81	32	48	67	44	77	158	210	456	782	615	371	370	366	244	121	67	162	225	249
20	387	375	366	243	52	119	48	49	32	40	59	100	196	146	93	76	42	60	75	64	78	75	69	122	124
Q 21	128	63	46	31	34	48	111	152	70	57	49	53	57	67	70	57	142	161	58	56	55	258	390	381	108
22	161	64	44	60	55	29	26	30	36	45	46	50	67	84	64	133	207	137	43	70	59	58	53	102	72
Q 23	213	142	86	54	70	85	48	94	82	84	57	53	47	42	38	47	36	30	31	25	61	34	38	37	64
Q 24	41	34	29	22	28	26	26	27	35	36	36	39	63	55	55	44	52	70	25	22	25	30	32	108	40
25	347	77	31	18	11	28	52	70	55	52	41	57	225	217	69	49	45	34	31	150	71	40	122	88	82
26	219	155	146	132	89	141	213	134	245	152	79	60	103	101	72	73	51	75	291	423	604	524	681	742	229
D 27	499	476	905	627	234	203	266	438	251	443	491	649	565	687	727	770	728	880	285	126	53	101	148	339	454
28	484	369	342	257	263	362	295	356	409	612	802	598	404	384	322	373	448	575	259	400	388	237	536	492	415
D 29	427	420	513	499	387	393	420	362	659	534	515	583	457	331	459	503	872	791	654	508	334	218	397	130	474
30	70	96	246	212	369	358	223	289	233	635	467	504	432	602	531	323	509	437	263	281	421	323	401	196	351
31	192	209	275	303	202	121	250	437	639	460	349	94	314	722	724	231	225	275	266	250	145	149	57	68	290
Mean	259	241	253	222	184	183	173	190	211	247	265	286	322	312	288	278	310	308	265	252	238	189	211	225	246
5Q Mean	96	71	69	76	77	88	76	104	101	88	98	134	137	109	87	90	90	106	97	121	106	126	169	175	104
5D Mean	474	420	543	460	406	436	398	428	478	569	563	595	740	600	450	436	582	538	445	357	231	236	232	258	453

A0 Index (Provisional Hourly mean values, unit nT) October 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
D 1	-155	-3	-38	-159	-150	-119	-91	-138	-10	-46	-115	-177	-201	-147	-99	-57	-118	-116	-119	-47	-61	-39	6	0	-92
2	-44	-171	-33	0	-53	-72	-82	-69	-78	-63	-55	-68	-89	-93	-96	-83	-71	-48	-77	-57	-34	-22	-55	7	-63
Q 3	3	0	-14	-46	-36	-36	4	-66	-87	-51	-62	-110	-75	-58	-71	-94	-59	-6	-13	-123	-84	-50	-34	-27	-50
4	-20	-14	-114	-96	-44	9	5	5	9	2	-1	-3	-3	-3	-4	-5	-3	0	2	4	4	8	1	1	-10
Q 5	-4	-4	-19	-22	-4	-7	-3	1	3	2	0	-4	-3	-1	-3	0	5	-53	-41	-14	-10	-12	-27	-10	-9
6	-7	-78	-139	6	-13	2	-6	-6	-4	-35	-71	-45	-11	0	-43	-128	-66	-58	-46	-24	-5	-10	8	3	-32
7	-7	4	3	-42	-19	-5	-11	-19	-48	-87	-14	6	13	16	-2	-16	-16	-12	-2	8	5	11	13	8	-8
8	-24	-102	-29	-35	-20	18	18	16	13	16	6	1	0	2	3	1	-5	9	3	-43	-63	26	43	38	-4
9	36	29	22	21	19	21	23	34	28	23	-168	-266	-223	-136	-145	-145	-55	-224	-130	-111	-112	-21	-48	-10	-64
10	14	7	3	11	7	7	1	-17	-44	-36	-30	-49	-100	-21	-15	-26	-41	-6	-7	-50	-5	-9	-93	-41	-22
11	-16	-16	-40	-58	8	12	8	14	13	6	-54	-302	-157	-70	-63	-200	-187	-58	-101	-134	-88	-85	8	1	-65
D 12	-43	-144	-125	-74	-146	-72	-79	-98	-140	-280	-181	-149	-466	-211	-3	-2	-77	-69	9	5	-5	-58	6	5	-100
13	-26	-148	-101	0	4	11	-4	5	34	16	10	11	6	-5	-31	-16	-142	-118	-82	-64	-161	12	38	-11	-31
14	-55	-10	21	11	28	-23	-18	-62	-22	37	32	21	-12	-70	-12	3	-15	-9	-9	-47	-92	-77	-43	-254	-28
D 15	-147	-166	-151	24	23	-127	-16	1	-82	-219	-149	-65	-26	-72	15	-74	-91	-28	-99	-197	-72	-45	-60	-136	-81
16	-152	-34	-52	-31	-93	-19	-29	0	18	-9	34	21	-12	-38	24	-21	-87	-115	-37	15	8	8	-59	-23	-28
17	33	26	18	18	12	-36	-107	10	45	19	-35	-116	5	1	-24	-100	-64	-95	-168	-41	-15	-14	0	13	-25
18	-19	-3	42	47	34	22	31	18	-5	19	6	2	-13	-77	-194	-74	-84	-76	-54	-21	-23	-45	-44	-46	-23
19	-7	-66	18	48	27	22	12	17	17	20	17	8	0	-153	-194	-101	-46	-61	-78	-40	14	24	22	20	-19
20	0	44	-96	29	37	20	28	29	17	11	4	0	-30	-17	9	10	6	-6	-11	-1	-5	0	8	6	3
Q 21	-8	16	20	15	20	22	1	-12	30	29	19	13	11	18	21	3	-35	-32	3	4	10	-61	-90	-54	-1
22	34	19	13	24	21	18	17	20	19	17	16	13	16	16	13	-11	-43	-23	11	0	14	22	25	2	11
Q 23	-40	-14	2	17	9	10	23	-3	2	-4	4	9	6	6	3	4	3	5	9	14	-5	9	7	9	3
Q 24	9	11	8	12	19	21	20	16	16	12	9	8	-1	2	5	10	10	7	14	15	14	14	14	-5	11
25	-70	15	21	19	17	26	31	8	5	6	13	12	-14	-41	0	8	9	9	9	-33	-8	12	-2	14	3
26	19	67	36	23	21	45	51	31	-41	-14	11	6	9	8	5	0	1	-15	-80	-135	-145	-90	-137	-149	-19
D 27	-35	-96	-332	-140	-37	-24	-39	-53	-4	-39	-140	-193	-166	-194	-167	-159	-122	-186	-43	0	18	-8	-20	-93	-95
28	-156	-85	-54	-70	-56	-69	-36	-72	-76	-119	-286	-144	-129	-86	-47	-46	-93	-138	-47	-86	-55	-12	-134	-122	-92
D 29	-78	-48	-133	-165	-88	-92	-113	-78	-134	-66	-56	-170	-95	-93	-110	-76	-239	-263	-159	-150	-53	1	-116	-13	-108
30	18	4	-71	-52	-80	-82	-34	-59	-35	-190	-148	-61	-90	-142	-113	-57	-118	-94	-37	-35	-47	-19	-97	-19	-69
31	-19	-27	-41	-36	-6	10	-35	-74	-83	-67	-106	6	-41	-215	-180	-41	-19	-20	-53	-31	11	0	22	27	-42
Mean	-31	-31	-43	-22	-17	-15	-13	-19	-20	-35	-48	-57	-61	-60	-48	-48	-60	-61	-46	-45	-33	-17	-27	-27	-37
5Q Mean	-8	1	0	-4	1	2	9	-12	-7	-2	-6	-16	-12	-6	-9	-15	-15	-15	-5	-20	-15	-20	-26	-17	-9
5D Mean	-91	-91	-155	-102	-79	-86	-67	-73	-74	-130	-128	-150	-190	-143	-72	-73	-129	-132	-82	-77	-34	-29	-36	-47	-95

AU Index (Provisional Hourly mean values, unit nT)

November 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	77	70	77	81	76	82	138	101	34	32	40	34	28	30	49	34	92	152	151	80	63	198	153	155	85
D	191	262	134	141	192	290	215	116	72	97	159	142	159	73	42	28	35	44	48	76	148	131	79	111	124
3	94	93	117	169	146	162	215	268	363	391	286	89	40	27	22	14	8	25	16	43	77	54	85	74	120
D	44	46	41	98	104	111	100	133	212	213	170	211	117	155	224	241	205	129	62	72	54	56	78	139	126
5	168	66	108	93	37	43	106	61	37	27	113	75	75	72	163	63	25	31	65	37	50	105	79	62	73
6	49	43	73	85	61	52	41	53	61	57	148	165	153	170	284	234	218	250	211	160	52	43	41	59	115
7	58	73	59	28	33	63	61	39	56	84	87	80	119	146	68	112	188	154	126	121	106	118	104	137	93
8	203	71	42	35	49	71	62	74	85	39	23	21	32	33	18	53	40	23	28	51	58	90	149	149	62
D	60	42	94	117	146	134	314	322	224	327	101	281	319	273	276	291	167	63	49	45	47	159	72	43	165
10	64	75	25	58	66	53	73	47	52	41	19	50	44	52	29	22	93	92	104	85	77	76	59	53	59
11	52	76	99	153	102	105	99	62	57	64	98	90	71	73	41	21	32	31	34	83	45	80	46	62	70
12	81	63	64	87	94	96	120	68	30	45	53	68	103	67	67	121	42	38	41	49	69	86	152	129	76
13	86	51	55	48	73	96	90	95	36	36	50	113	160	81	88	33	26	26	36	26	60	54	70	62	65
14	82	71	52	82	104	92	68	79	30	28	58	100	128	111	98	30	25	90	39	86	66	65	75	67	72
D	93	96	103	48	73	93	93	63	45	42	28	58	77	29	131	230	98	64	152	109	105	141	174	115	94
16	123	71	57	61	50	56	46	57	47	43	43	43	29	24	36	34	42	39	22	28	67	59	64	57	50
17	65	84	64	72	78	111	103	59	46	30	33	50	43	44	35	44	29	21	67	58	29	49	51	30	54
Q	40	34	39	43	37	27	33	44	35	28	35	49	36	29	32	25	63	121	146	138	78	60	38	24	51
19	22	22	44	63	78	53	34	57	67	54	61	81	111	140	101	61	44	22	16	23	21	24	20	17	51
Q	22	17	16	17	29	28	23	27	35	40	57	43	36	25	21	26	14	16	14	18	27	30	39	106	30
21	188	147	172	107	195	182	102	45	13	14	12	11	14	13	13	12	14	15	14	11	13	15	16	17	57
22	25	22	21	24	31	39	55	38	73	112	66	35	91	288	67	94	65	91	40	103	83	121	158	154	79
D	71	107	159	165	178	208	152	218	297	203	118	86	54	81	92	135	155	248	203	159	95	59	115	94	144
24	40	33	50	26	19	36	58	53	74	74	91	224	190	72	58	34	56	99	100	129	123	95	118	58	80
25	94	103	104	43	72	24	46	30	38	68	107	143	107	77	51	40	16	24	6	11	37	55	38	43	57
26	59	75	106	101	92	82	79	52	38	45	69	77	123	61	76	30	31	25	31	15	23	17	22	27	56
Q	28	34	36	55	35	29	41	46	24	25	28	28	25	35	21	22	23	17	13	11	9	7	16	17	26
Q	25	48	79	84	60	70	54	71	77	66	125	147	62	24	31	37	31	94	106	86	110	116	134	79	76
Q	50	57	56	55	51	50	33	30	30	26	21	39	25	61	39	47	49	47	41	18	23	25	23	19	38
30	19	19	23	20	20	21	33	25	44	42	60	113	56	64	90	203	189	230	210	180	197	79	70	107	88
Mean	75	69	72	75	79	85	89	81	77	79	78	91	87	81	78	79	70	77	73	70	67	75	77	75	77
5Q Mean	33	38	45	50	42	40	36	43	40	37	53	61	36	34	28	31	36	59	64	54	49	47	50	49	44
5D Mean	91	110	106	113	138	167	174	170	170	176	115	155	145	122	153	185	132	109	102	92	89	109	103	100	130

AL Index (Provisional Hourly mean values, unit nT) November 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	-65	-137	-161	-123	-110	-106	-136	-46	-5	-14	-20	-23	-43	-29	-39	-43	-160	-244	-322	-63	-46	-358	-904	-524	-155
D 2	-178	-218	-211	-288	-254	-491	-348	-121	-65	-90	-356	-318	-200	-224	-79	-48	-40	-22	-39	-91	-215	-233	-86	-147	-182
3	-262	-334	-117	-311	-351	-498	-413	-506	-562	-553	-359	-45	-40	-84	-41	-88	-93	-46	-100	-88	-216	-188	-346	-134	-241
D 4	-57	-77	-132	-287	-180	-135	-184	-290	-297	-488	-369	-327	-341	-561	-832	-1129	-285	-72	-51	-111	-138	-234	-266	-569	-309
5	-292	-145	-40	-5	-12	-24	-193	-78	-37	-30	-205	-523	-465	-192	-317	-128	-33	-47	-76	-82	-179	-226	-181	-192	-154
6	-196	-162	-211	-201	-168	-144	-158	-277	-179	-180	-293	-365	-360	-564	-539	-575	-424	-312	-307	-207	-39	-56	-71	-188	-257
7	-134	-190	-177	-42	-16	-63	-212	-197	-108	-211	-428	-137	-228	-190	-174	-477	-474	-254	-217	-204	-176	-135	-176	-360	-208
8	-180	-30	-17	-8	-11	-25	-76	-116	-17	-5	-13	-17	-29	-45	-141	-118	-92	-19	-41	-292	-90	-66	-297	-43	-74
D 9	-29	-7	-29	-78	-228	-359	-297	-390	-893	-484	-528	-431	-607	-476	-519	-396	-565	-198	-77	-114	-98	-288	-310	-169	-315
10	-146	-92	-39	-48	-59	-86	-102	-53	-31	-20	-17	-61	-90	-104	-33	-51	-304	-196	-172	-71	-44	-67	-101	-78	-86
11	-34	-111	-145	-347	-168	-72	-67	-105	-349	-343	-78	-420	-133	-63	-35	-112	-284	-262	-112	-84	-128	-64	-1	-76	-150
12	-146	-43	-24	-125	-250	-54	-20	-7	-49	-228	-211	-119	-209	-206	-182	-242	-154	-130	-195	-354	-174	-268	-316	-200	-163
13	-33	-17	-20	-39	-47	-41	-28	-27	-9	-32	-144	-495	-689	-328	-96	-60	-212	-202	-125	-275	-136	-17	-188	-142	-142
14	-32	-16	-47	-80	-178	-41	-20	-13	-25	-136	-212	-383	-256	-118	-83	-83	-177	-173	-132	-157	-83	-26	-88	-133	-112
D 15	-127	-18	-21	-18	-24	-74	-66	-6	0	-12	-28	-52	-531	-543	-715	-515	-99	-70	-238	-265	-117	-204	-373	-181	-179
16	-219	-124	-9	-10	-24	-42	-39	-38	-38	-38	-74	-20	-26	-27	-26	-108	-99	-54	-17	-46	-86	-276	-196	-170	-75
17	-58	-25	-21	-69	-28	-136	-19	-13	-6	-21	-55	-166	-98	-30	-31	-42	-171	-233	-178	-229	-93	-51	-114	-74	-82
Q 18	-199	-69	-26	-7	-3	-4	-21	-12	-8	-17	-28	-48	-36	-26	-21	-42	-117	-322	-301	-241	-178	-7	-13	-14	-73
19	-15	-15	-12	-26	-124	-46	1	-22	-105	-124	-74	-112	-324	-239	-89	-71	-32	-24	-47	-52	-32	-5	-8	-5	-67
Q 20	-10	-4	-5	-4	-11	-9	-3	-7	-11	-41	-50	-14	-16	-17	-17	-21	-13	-21	-18	-16	-151	-83	-61	-145	-31
21	-121	-144	-265	-289	-160	-36	-6	-6	-10	-13	-13	-15	-17	-23	-24	-26	-24	-18	-14	-11	-7	-11	-3	-2	-52
22	-7	-6	0	-3	-1	-8	-2	-10	-20	-30	-29	-258	-471	-528	-266	-258	-257	-340	-116	-300	-324	-341	-306	-290	-174
D 23	-501	-435	-428	-527	-626	-584	-475	-346	-278	-342	-262	-297	-234	-256	-135	-317	-665	-491	-283	-181	-260	-101	-220	-99	-348
24	-13	-16	-46	-47	-48	-51	-121	-178	-150	-245	-347	-401	-200	-244	-351	-113	-239	-364	-256	-360	-333	-81	-159	-143	-188
25	-130	-246	-103	-20	-47	-37	-156	-63	-48	-216	-474	-585	-486	-195	-20	-32	-34	-195	-206	-58	-36	-216	-197	-94	-162
26	-136	-222	-185	-158	-354	-198	-18	-17	-70	-103	-247	-170	-180	-275	-181	-44	-23	-21	-31	-17	-196	-94	-29	-53	-126
Q 27	-53	-46	-55	-34	-8	-4	-10	-5	-14	-28	-30	-26	-17	-44	-63	-43	-35	-41	-21	-61	-9	-6	-11	-67	-30
Q 28	-52	-43	-12	2	2	-6	-10	-88	-210	-139	-129	-167	-17	-13	-20	-27	-74	-162	-212	-80	-111	-215	-166	-57	-83
Q 29	-15	-2	3	1	-14	0	-1	-1	-5	-5	-7	-102	-152	-182	-121	-174	-103	-166	-157	-26	-5	-13	-15	-13	-53
30	-6	-6	-15	-8	-2	-4	-26	-93	-125	-92	-148	-306	-339	-467	-435	-583	-428	-305	-613	-520	-260	-70	-71	-194	-213
Mean	-114	-100	-85	-106	-116	-112	-107	-104	-124	-142	-174	-213	-227	-209	-187	-198	-190	-166	-155	-155	-132	-133	-175	-151	-149
5Q Mean	-65	-32	-19	-8	-6	-4	-9	-22	-49	-46	-48	-71	-47	-56	-48	-61	-68	-142	-141	-84	-90	-64	-53	-59	-54
5D Mean	-178	-151	-164	-239	-262	-328	-274	-230	-306	-283	-308	-285	-382	-412	-456	-481	-330	-170	-137	-152	-165	-212	-251	-233	-266

AE Index (Provisional Hourly mean values, unit nT) November 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	144	209	240	205	187	189	275	148	40	47	61	59	72	60	88	78	253	398	474	144	110	556	1058	681	241
D	369	481	346	431	447	782	564	239	138	188	515	461	360	298	123	77	77	68	89	168	364	365	165	258	307
	357	429	235	481	498	661	629	775	926	945	646	134	81	112	63	103	102	73	117	132	294	243	432	209	362
D	102	125	174	386	285	247	285	424	510	702	539	538	458	717	1058	1370	491	203	115	184	193	291	345	710	435
	461	211	149	98	50	68	300	141	75	58	318	598	541	265	481	192	59	79	141	120	231	333	261	255	229
	246	207	285	288	230	196	199	331	241	238	441	530	514	735	825	810	642	562	518	368	92	99	113	248	373
7	193	265	238	71	50	127	275	237	166	296	516	218	347	336	242	591	663	409	343	326	283	255	282	498	301
8	384	101	59	44	60	97	139	191	103	44	37	39	62	79	160	172	132	43	69	345	149	157	447	192	138
D	89	50	124	197	376	494	612	712	1117	812	630	713	927	751	796	687	733	262	127	159	145	447	383	213	482
	211	167	66	108	125	141	177	100	84	62	37	112	134	156	63	73	398	289	277	157	123	144	160	131	146
	86	189	244	500	271	178	166	168	406	407	178	510	204	137	77	134	317	295	148	169	174	145	48	139	220
12	227	107	89	213	345	150	140	75	80	274	265	188	312	273	251	363	197	169	238	404	244	355	468	330	240
13	119	70	76	89	122	138	118	123	45	69	195	609	850	409	184	94	239	229	162	302	197	72	260	205	207
14	115	89	100	162	282	134	89	93	56	165	270	483	385	230	181	113	203	263	172	244	150	93	164	201	185
D	221	115	124	67	97	168	160	69	45	55	56	110	609	574	847	745	199	135	391	375	223	346	548	297	274
	343	196	66	72	75	99	86	96	85	82	118	64	56	51	63	143	143	94	40	76	153	336	261	228	126
17	124	110	86	143	107	247	123	73	53	52	89	216	142	75	66	87	202	255	246	288	123	102	166	104	137
18	240	105	66	51	41	31	55	56	43	46	63	97	73	55	54	68	181	444	447	380	258	68	52	39	126
19	38	38	57	91	202	100	33	79	174	178	135	194	436	379	190	133	77	48	65	76	54	31	29	23	119
Q	34	22	22	22	41	38	27	35	46	82	108	57	53	42	38	48	28	38	33	35	179	114	101	252	62
	310	291	439	397	357	218	109	52	24	27	26	27	32	37	38	39	38	33	28	23	21	27	20	21	110
22	34	29	22	29	33	47	58	49	94	143	96	293	564	817	333	352	323	431	158	404	408	463	465	445	254
D	574	543	587	694	806	794	628	565	575	546	381	384	288	338	229	453	821	740	487	341	357	162	336	194	493
24	54	50	96	73	67	88	180	231	225	320	438	626	390	317	410	148	296	465	357	491	456	177	278	202	268
25	224	350	208	63	119	62	203	93	87	285	582	729	594	272	73	74	52	220	213	71	75	273	236	138	221
	196	299	292	261	447	281	98	70	109	148	316	247	303	337	257	75	56	47	63	34	220	112	52	81	183
Q	82	80	91	90	44	34	52	51	39	53	59	55	44	79	85	66	58	59	35	73	18	13	28	84	57
Q	78	92	92	82	57	77	65	160	288	205	255	315	80	38	52	65	107	257	320	167	222	332	301	137	160
Q	66	59	52	54	65	50	36	31	36	32	28	142	178	244	161	223	154	215	200	46	28	39	34	92	
30	26	27	38	29	23	26	59	119	170	134	209	420	395	533	527	787	619	536	824	701	459	149	142	301	302
Mean	191	170	158	183	196	198	198	186	202	223	253	305	316	291	267	278	262	245	229	226	200	209	254	228	228
5Q Mean	100	71	64	59	49	46	47	66	90	83	102	133	85	91	78	94	105	202	207	140	141	113	104	109	99
5D Mean	271	262	271	355	402	497	449	401	477	460	424	441	528	535	610	666	464	281	241	245	256	322	355	334	398

A0 Index (Provisional Hourly mean values, unit nT)

November 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean	
1	5	-33	-41	-20	-16	-12	0	26	13	8	9	5	-7	0	4	-4	-33	-45	-85	8	8	-78	-374	-183	-35	
D	6	21	-38	-73	-30	-100	-65	-2	3	3	-98	-87	-20	-74	-18	-9	-2	10	4	-7	-33	-50	-3	-17	-28	
3	-83	-120	0	-70	-101	-167	-98	-118	-99	-81	-36	21	0	-28	-9	-37	-41	-10	-41	-22	-69	-66	-130	-29	-60	
D	4	-5	-15	-45	-94	-37	-12	-41	-78	-42	-137	-99	-57	-111	-202	-303	-443	-39	27	5	-41	-88	-93	-214	-91	
5	-61	-38	33	44	12	8	-43	-8	0	-1	-46	-223	-194	-59	-76	-32	-3	-7	-5	-22	-64	-60	-50	-64	-40	
6	-73	-58	-68	-57	-53	-45	-58	-112	-58	-61	-71	-99	-103	-196	-126	-169	-102	-30	-47	-23	6	-5	-14	-64	-70	
7	-37	-58	-58	-7	7	0	-74	-78	-25	-63	-170	-28	-54	-21	-52	-182	-142	-49	-45	-41	-34	-8	-35	-111	-57	
8	11	19	11	12	18	22	-7	-20	33	16	4	1	1	-6	-60	-32	-25	1	-6	-120	-15	11	-73	52	-6	
D	9	14	17	32	18	-40	-111	8	-34	-334	-78	-212	-74	-143	-100	-120	-52	-199	-67	-13	-24	-63	-118	-62	-74	
10	-40	-8	-6	4	2	-16	-14	-2	10	10	0	-5	-23	-25	-1	-14	-105	-51	-33	6	15	4	-20	-12	-13	
11	8	-17	-23	-96	-32	15	15	-21	-145	-138	10	-164	-31	4	2	-45	-125	-115	-38	0	-41	7	22	-6	-39	
12	-31	9	19	-19	-77	21	49	29	-9	-91	-78	-25	-53	-69	-57	-60	-56	-45	-76	-152	-52	-90	-81	-35	-43	
13	26	16	17	4	12	27	30	33	12	1	-46	-190	-264	-122	-4	-13	-92	-87	-44	-124	-38	17	-59	-40	-38	
14	24	26	2	0	-36	24	22	32	2	-53	-76	-141	-63	-3	6	-25	-75	-41	-46	-35	-8	19	-6	-32	-20	
D	15	-16	38	40	14	23	9	12	28	22	14	0	2	-226	-256	-291	-142	0	-2	-42	-77	-6	-31	-99	-32	-42
16	-47	-26	23	24	12	6	2	9	4	2	-15	11	0	-1	4	-36	-28	-7	1	-9	-9	-108	-65	-55	-12	
17	3	29	20	1	24	-12	41	22	19	3	-10	-57	-27	6	1	0	-70	-105	-54	-85	-31	-1	-30	-21	-13	
18	-79	-17	6	17	16	11	5	15	12	4	2	0	0	0	4	-8	-26	-99	-77	-51	-49	25	11	4	-11	
19	3	2	15	18	-23	3	17	16	-18	-34	-6	-15	-106	-49	5	-5	5	-1	-15	-14	-5	8	5	5	-7	
Q	20	5	6	4	5	8	9	9	11	0	2	14	9	3	1	2	0	-2	-2	0	-61	-26	-11	-19	0	
21	33	1	-46	-90	17	72	47	18	1	0	0	-1	-1	-4	-5	-6	-4	-1	0	0	2	2	5	6	1	
22	8	7	10	9	14	14	25	12	26	40	18	-110	-189	-119	-99	-81	-95	-123	-37	-98	-120	-109	-73	-67	-47	
D	23	-214	-163	-133	-180	-223	-187	-161	-63	9	-69	-72	-105	-89	-86	-21	-90	-254	-121	-39	-10	-82	-20	-52	-1	-101
24	12	7	1	-10	-14	-7	-31	-62	-37	-84	-127	-88	-5	-85	-145	-39	-91	-132	-77	-115	-104	6	-20	-41	-53	
25	-17	-70	0	10	12	-6	-54	-16	-4	-73	-183	-221	-189	-58	15	4	-8	-84	-100	-23	0	-80	-78	-25	-52	
26	-37	-73	-38	-28	-130	-57	29	16	-15	-28	-88	-45	-28	-106	-52	-6	3	1	0	-1	-86	-37	-3	-12	-34	
Q	27	-12	-6	-9	9	12	11	14	20	4	-1	0	3	-4	-20	-10	-6	-11	-3	-24	0	0	2	-24	-2	
Q	28	-13	1	33	43	31	21	-8	-65	-36	-2	-9	21	4	5	4	-21	-33	-52	3	0	-49	-16	10	-4	
Q	29	16	26	30	28	17	24	15	13	11	9	6	-31	-62	-40	-63	-26	-59	-57	-3	7	5	3	2	-7	
30	5	5	3	5	8	7	3	-33	-39	-24	-43	-96	-140	-200	-171	-189	-119	-37	-201	-169	-31	4	0	-42	-62	
Mean	-19	-15	-6	-15	-18	-13	-9	-11	-23	-31	-47	-60	-69	-63	-54	-59	-59	-44	-40	-42	-32	-28	-48	-37	-35	
5Q Mean	-16	2	12	20	16	17	12	9	-5	-4	1	-5	-5	-11	-10	-15	-15	-40	-38	-15	-20	-9	-2	-5	-5	
5D Mean	-43	-20	-28	-63	-61	-80	-49	-29	-68	-53	-96	-64	-117	-143	-150	-147	-98	-30	-17	-29	-37	-50	-73	-65	-67	

December 1992

AU Index (Provisional Hourly mean values, unit nT)

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	117	170	158	135	115	102	91	81	94	105	149	191	139	72	143	203	175	106	65	39	45	48	55	67	111
2	96	78	43	105	94	109	75	46	41	39	34	26	29	71	34	52	36	39	62	74	83	37	28	36	57
3	41	56	47	118	133	157	73	29	30	101	189	195	174	82	70	79	123	208	148	182	134	114	107	73	111
4	55	59	102	82	77	90	152	83	84	73	80	145	111	43	64	51	43	77	83	76	102	97	78	98	84
5	74	81	122	88	31	54	50	49	67	85	61	40	31	20	8	9	16	17	19	32	30	31	32	32	45
Q	30	44	29	23	24	25	29	28	30	34	42	47	68	57	35	130	146	137	96	45	43	40	42	40	53
7	38	37	40	50	42	46	44	55	93	80	76	96	58	81	56	41	30	27	38	90	153	176	143	247	77
8	166	172	139	136	113	63	58	87	97	92	167	223	57	115	79	88	62	101	96	102	137	178	164	111	117
D	100	132	154	132	117	79	93	125	66	90	115	89	150	83	133	133	90	133	89	82	74	78	125	152	109
10	112	93	80	97	77	64	62	81	112	117	182	155	73	63	61	37	160	102	163	160	141	143	143	90	107
11	90	98	129	93	58	60	43	59	58	79	53	57	37	34	38	62	44	47	30	35	63	46	48	41	58
12	64	56	60	57	36	41	35	37	45	33	38	43	44	31	137	79	44	35	54	44	26	31	67	78	51
13	93	108	135	107	129	90	64	53	47	116	114	80	64	57	62	45	26	23	36	27	26	31	60	141	72
14	150	155	91	110	90	67	67	52	39	29	43	33	36	29	31	37	108	94	48	88	162	243	214	76	87
15	78	124	130	119	105	76	54	44	74	87	120	72	114	84	45	35	39	41	28	37	86	84	113	47	76
16	39	42	91	120	148	180	125	56	61	77	68	60	48	33	31	23	21	21	20	21	24	22	21	21	57
D	24	25	25	32	31	39	64	103	133	189	142	118	131	152	161	106	143	22	129	133	60	89	111	59	93
18	44	26	33	41	31	25	22	19	23	19	10	19	24	18	17	16	17	96	175	194	110	121	87	40	51
19	48	40	63	40	40	57	64	52	54	44	53	81	92	93	118	64	39	29	121	232	139	112	62	51	74
20	33	56	56	64	86	93	69	102	155	103	136	130	161	81	104	46	44	72	177	160	91	88	50	37	91
21	27	34	35	37	63	45	55	70	81	67	162	189	100	35	25	23	33	153	145	60	66	76	65	37	70
22	47	43	43	38	35	35	39	48	43	67	45	43	66	121	52	27	25	42	34	35	46	37	36	31	45
23	29	30	32	31	51	88	64	59	52	83	56	51	54	43	61	61	38	28	30	39	33	29	27	23	45
24	23	34	29	37	43	49	123	76	44	39	61	67	71	88	58	35	64	41	61	31	36	38	35	24	50
Q	22	24	27	29	24	30	46	38	28	23	32	26	31	26	21	20	13	18	53	37	32	54	62	36	31
26	40	58	37	39	43	40	47	47	40	75	52	40	42	38	61	62	41	25	32	20	28	27	30	33	42
27	37	31	30	31	32	30	31	36	35	33	32	28	29	27	30	29	29	24	24	34	65	85	91	69	38
D	86	61	56	44	37	53	73	86	79	75	55	75	34	203	341	288	273	84	268	117	115	11	28	-26	105
D	194	140	133	219	282	291	371	353	195	251	241	104	223	236	197	240	244	144	118	106	120	107	108	93	196
30	105	73	49	47	62	54	78	40	32	60	88	37	124	116	75	15	14	35	13	21	26	19	21	23	51
31	37	24	22	23	35	49	42	52	75	80	63	78	35	90	46	39	108	53	33	28	40	31	30	34	48
Mean	69	71	71	74	73	73	74	69	67	78	89	85	79	74	77	70	73	66	80	76	75	74	73	61	74
5Q Mean	41	49	61	59	54	65	59	43	45	58	51	42	44	34	31	48	47	43	44	31	31	34	37	32	45
5D Mean	114	106	101	112	116	105	131	150	114	139	144	121	119	157	182	171	162	96	140	108	101	92	107	77	123

AL Index (Provisional Hourly mean values, unit nT) December 1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	-511	-407	-212	-160	-165	-119	-72	-148	-465	-370	-235	-341	-172	-365	-473	-326	-376	-281	-55	-42	-154	-196	-190	-247	-253
2	-309	-55	-3	-47	-197	-204	-11	-17	-14	-121	-18	-11	-17	-75	-179	-73	-31	-164	-260	-217	-93	-89	-60	-128	-100
3	-98	-120	-164	-158	-252	-259	-25	-4	-10	-104	-393	-273	-363	-103	-99	-211	-283	-481	-285	-308	-216	-354	-193	-160	-205
4	-150	-122	-247	-248	-145	-161	-300	-136	-80	-147	-231	-248	-163	-483	-321	-89	-78	-268	-354	-148	-158	-120	-112	-326	-201
Q	-262	-246	-220	-129	-5	-9	-54	-158	-167	-148	-78	-80	-64	-47	-85	-117	-193	-104	-30	-10	-2	-6	-9	-25	-94
Q	-70	-71	-16	-1	0	0	-8	-38	-21	-11	-62	-92	-37	-42	-98	-469	-355	-274	-118	-42	-18	-11	-5	-4	-78
7	-4	-3	-21	-48	-16	-7	-21	-57	-153	-156	-69	-157	-415	-215	-50	-14	-1	-1	-27	-40	-7	-22	-191	-302	-83
D	-77	-48	-21	-84	-72	-54	-115	-162	-75	-55	-216	-205	-249	-93	-137	-118	-87	-361	-343	-126	-308	-675	-258	-84	-168
D	-142	-154	-163	-93	-143	-83	-209	-21	-15	-68	-110	-91	-435	-433	-349	-292	-296	-234	-132	-59	-63	-225	-139	-37	-166
10	-30	-16	-14	-9	-7	-16	-3	-27	-143	-350	-279	-127	-52	-13	-45	-72	-547	-373	-288	-189	-291	-172	-127	-143	-137
11	-101	-51	-145	4	-2	-4	-9	-27	-135	-115	-5	0	-11	-32	-162	-204	-95	-30	-13	-48	-169	-187	-58	-35	-68
12	-51	-57	-54	-1	1	2	2	0	-5	-8	-10	-40	-78	-288	-159	-15	-23	-47	-192	-124	-15	-14	-44	-194	-59
13	-151	-50	-18	-152	-72	-2	0	-46	-123	-69	-3	-37	-105	-67	-12	-26	-30	-52	-27	-14	-29	-51	-117	-153	-58
14	-161	-137	-26	-46	-23	0	-2	-2	-5	-10	-25	-24	-3	-10	-42	-194	-331	-243	-72	-100	-282	-195	-42	-8	-83
15	-24	-100	-166	-35	-9	-37	-20	-25	-27	-40	-317	-75	-53	-43	-83	-211	-127	-44	-20	-48	-202	-317	-102	-12	-89
Q	-13	-9	-35	-89	-120	-77	-7	-8	-13	-26	-89	-129	-10	-5	-12	-15	-18	-16	-36	-13	-9	-21	-12	-11	-33
D	-2	-1	0	0	1	2	-4	-48	-81	-204	-133	-38	-330	-360	-21	-95	-466	-1080	-493	-482	-218	-25	-34	-41	-173
18	-36	-29	-32	-25	-18	-11	-16	-18	-15	-21	-15	-25	-17	-12	-16	-21	-78	-252	-274	-212	-204	-217	-23	-13	-67
19	-32	-18	-14	-6	-5	-6	-10	-26	-58	-1	-16	-99	-166	-139	-80	-9	-27	-46	-167	-217	-57	-50	-96	-167	-63
20	-39	-71	-148	-166	-114	-220	-131	-174	-219	-119	-281	-450	-327	-334	-295	-201	-154	-366	-444	-217	-50	-8	-19	-9	-190
21	-3	-3	-2	-2	-7	-25	-21	-157	-262	-213	-334	-317	-225	-27	-64	-55	-142	-597	-454	-58	-11	-78	-154	-50	-136
22	-65	-39	-24	-15	-12	-4	-23	-55	-73	-273	-239	-225	-384	-175	-13	-20	-58	-164	-266	-90	-88	-15	-3	-5	-97
23	-3	-2	-3	-28	-71	-142	-103	-49	-63	-210	-172	-118	-36	-187	-249	-146	-34	-110	-177	-16	-11	-9	-8	-6	-81
24	-3	-8	-13	-97	-39	-90	-92	-56	-38	-28	-163	-256	-158	-273	-135	-184	-115	-66	-452	-177	-12	-12	-5	-4	-103
Q	-6	-7	-7	-9	-7	-12	-25	-16	-10	-7	-54	-129	-15	-8	-14	-51	-84	-212	-172	-160	-33	-49	-60	-74	-51
Q	-3	-32	-38	-22	-5	-9	-17	-26	-134	-88	-36	-27	-28	-29	-126	-133	-21	-27	-19	-6	-7	-78	-20	-7	-39
27	-2	0	-1	-1	0	2	5	8	7	8	7	7	6	2	-6	-15	-16	-12	-2	-83	-118	-81	-375	-110	-32
D	-50	-148	-34	-12	-17	-21	-68	-317	-250	-139	-97	-140	-769	-1103	-658	-535	-690	-778	-655	-188	-489	-617	-539	-674	-374
D	-247	-318	-213	-401	-524	-510	-486	-371	-616	-395	-376	-408	-453	-545	-582	-787	-813	-322	-246	-310	-225	-248	-242	-248	-412
30	-246	-210	-95	-91	-153	-140	-103	-45	-22	-108	-255	-370	-335	-106	-103	-61	-104	-287	-73	-8	-10	-15	-29	-49	-126
31	-160	-47	-42	-46	-55	-91	-22	-45	-140	-433	-173	-160	-273	-524	-257	-143	-252	-135	-23	-12	-16	-15	-9	-4	-128
Mean	-98	-83	-70	-71	-72	-74	-63	-73	-110	-129	-144	-151	-185	-197	-158	-158	-191	-239	-197	-121	-115	-134	-105	-107	-127
5Q Mean	-70	-73	-63	-50	-27	-21	-22	-49	-69	-56	-63	-91	-30	-26	-67	-157	-134	-126	-75	-46	-13	-33	-21	-24	-58
5D Mean	-103	-133	-86	-118	-151	-133	-176	-183	-207	-172	-186	-176	-447	-506	-349	-365	-470	-555	-373	-233	-260	-358	-242	-216	-258

AE Index (Provisional Hourly mean values, unit nT)

December

1992

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
1	628	578	371	296	281	222	165	230	559	475	384	532	312	438	617	531	552	388	122	82	200	244	245	315	365
2	406	133	46	153	293	315	87	64	55	160	53	37	47	147	214	126	68	204	323	292	177	127	89	164	157
3	140	177	211	278	386	418	99	33	41	206	582	469	538	187	171	292	407	691	434	491	351	469	300	233	317
4	206	182	349	331	224	252	452	220	164	221	312	395	275	528	387	141	123	347	438	225	261	217	190	425	286
Q 5	337	328	343	219	37	63	105	207	234	233	140	121	96	68	94	128	211	122	50	43	33	39	43	57	140
Q 6	101	116	46	26	23	24	37	67	51	45	104	140	105	100	134	601	503	413	216	88	61	51	48	45	131
7	43	41	63	99	60	55	66	113	247	236	145	253	474	297	107	56	32	29	66	132	161	199	335	550	161
D 8	244	221	161	221	185	118	174	249	173	148	383	428	307	209	218	207	151	463	440	229	445	854	422	196	285
D 9	243	287	319	226	261	163	303	147	82	159	226	180	586	517	483	426	387	368	222	142	138	304	265	190	276
10	143	110	95	107	86	80	65	109	255	467	461	283	125	77	108	111	709	476	402	350	433	316	272	234	245
11	191	150	275	88	60	65	52	87	194	195	58	57	49	68	201	267	140	78	44	84	232	233	107	78	127
12	116	115	116	58	34	38	32	37	51	42	49	83	122	320	298	96	68	83	248	169	42	46	112	272	110
13	245	159	154	260	202	92	63	100	170	185	117	117	169	125	75	73	57	76	64	42	55	83	178	294	132
14	312	294	117	157	115	67	69	54	45	40	68	58	40	40	74	232	441	338	121	190	445	439	257	86	171
15	103	225	297	155	115	114	75	70	102	127	438	148	168	128	129	248	167	86	48	85	289	402	216	59	166
Q 16	53	52	127	210	270	258	132	65	75	103	158	190	59	39	44	39	41	37	56	34	34	44	34	34	91
D 17	27	26	24	32	29	36	68	151	215	395	275	157	462	513	182	201	611	1103	623	616	278	115	145	100	266
18	81	56	66	67	49	36	39	37	38	41	26	46	41	31	34	39	97	349	450	407	314	339	111	54	119
19	82	59	78	48	46	64	75	79	112	45	70	181	259	233	200	75	67	76	289	450	197	163	159	218	138
20	74	128	205	232	201	313	201	278	374	222	418	580	488	416	401	249	199	439	622	378	141	96	70	47	282
21	32	37	37	40	70	71	76	227	344	282	496	507	325	63	90	79	176	751	599	120	77	154	219	88	207
22	113	82	68	54	49	39	63	104	116	341	284	268	451	298	66	48	85	207	301	127	136	53	40	36	143
23	32	32	36	60	123	231	168	108	116	293	229	169	90	231	311	208	72	139	208	55	45	38	36	29	128
24	27	42	43	135	84	140	216	133	83	68	224	324	230	362	194	220	181	109	513	210	49	51	41	28	154
Q 25	29	31	34	39	33	42	72	55	39	30	86	156	47	34	36	72	98	231	226	198	66	104	122	111	83
Q 26	44	91	76	62	48	50	65	74	174	164	88	68	70	69	189	196	64	53	51	26	35	105	52	41	81
27	39	31	32	33	31	27	25	26	27	23	23	20	22	25	37	45	46	37	26	118	184	167	467	181	71
D 28	136	210	90	56	54	74	141	404	330	214	153	216	804	1307	1000	823	964	863	924	306	605	629	568	647	480
D 29	441	458	346	621	808	802	858	725	812	646	618	514	677	781	779	1027	1059	467	365	417	346	356	350	341	609
30	352	283	144	139	216	195	182	86	54	169	343	408	460	223	179	77	119	324	87	31	36	35	51	72	178
31	198	72	66	71	91	141	64	97	215	514	236	239	309	615	304	184	361	189	57	41	57	46	40	39	177
Mean	168	155	143	147	147	148	138	143	178	209	233	236	264	273	237	229	266	307	278	199	191	210	180	169	202
5Q Mean	112	123	125	111	82	87	82	93	114	115	115	135	75	62	99	207	183	171	119	77	45	68	59	57	105
5D Mean	218	240	188	231	267	238	308	335	322	312	331	299	567	665	532	536	634	652	514	342	362	451	350	294	383

A0 Index (Provisional Hourly mean values, unit nT)

December 1992

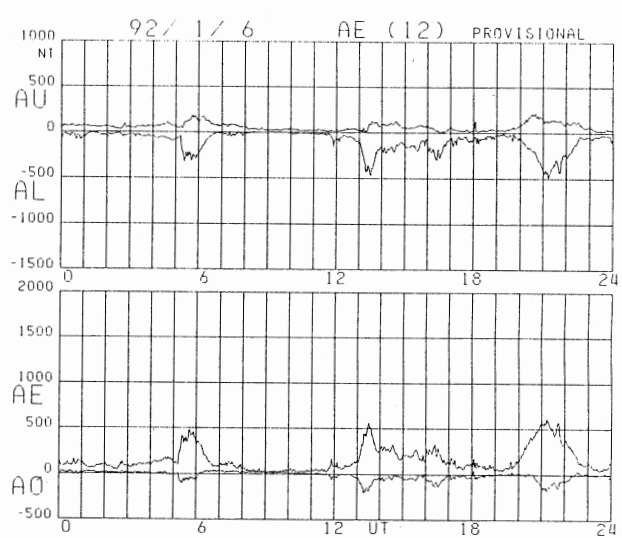
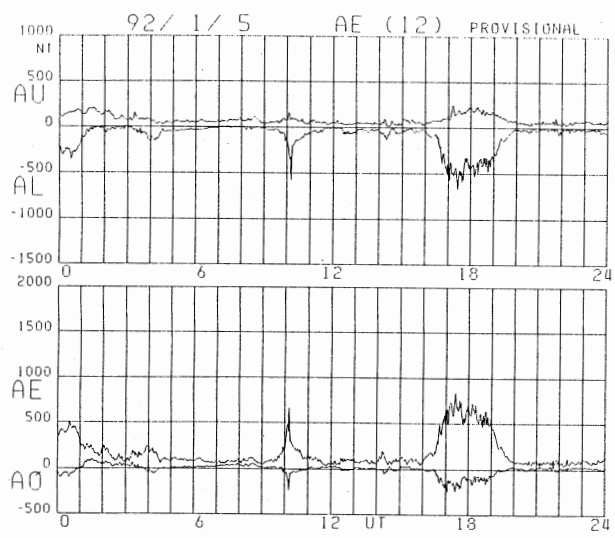
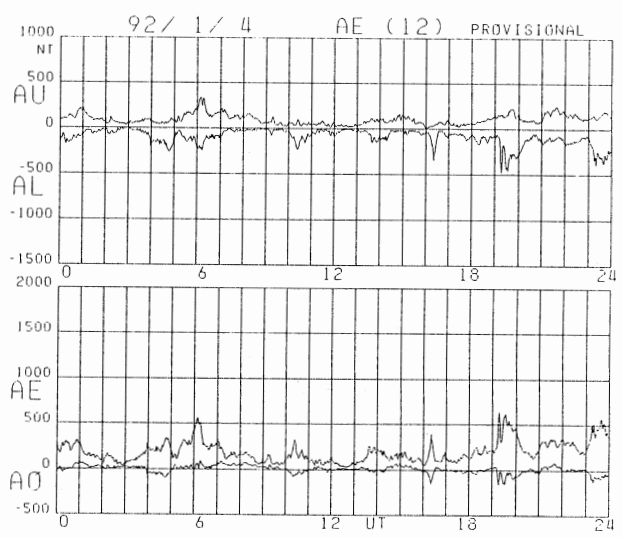
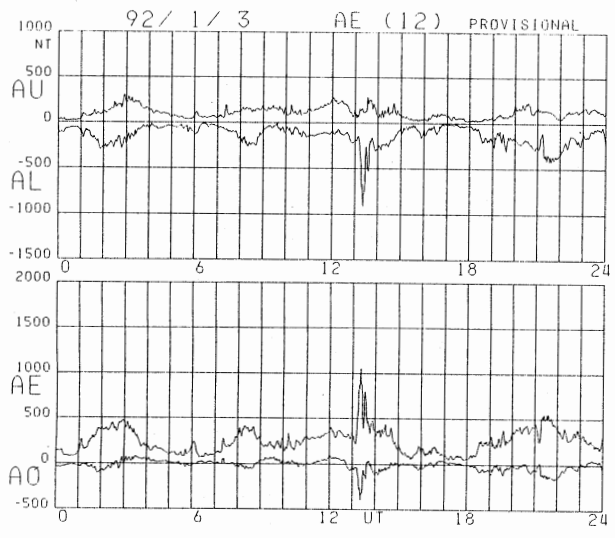
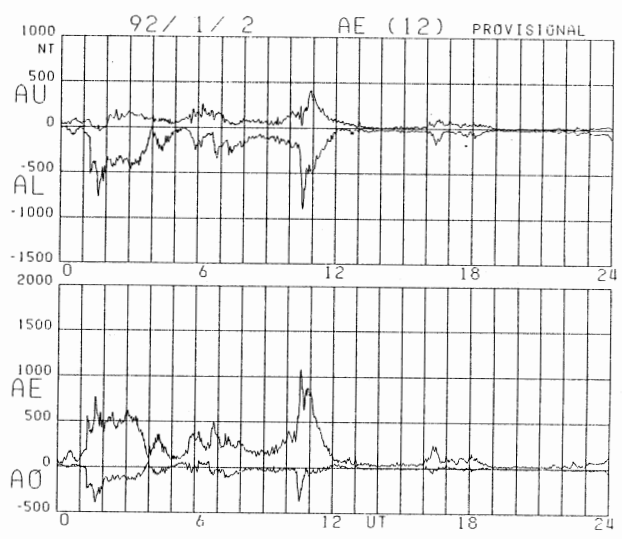
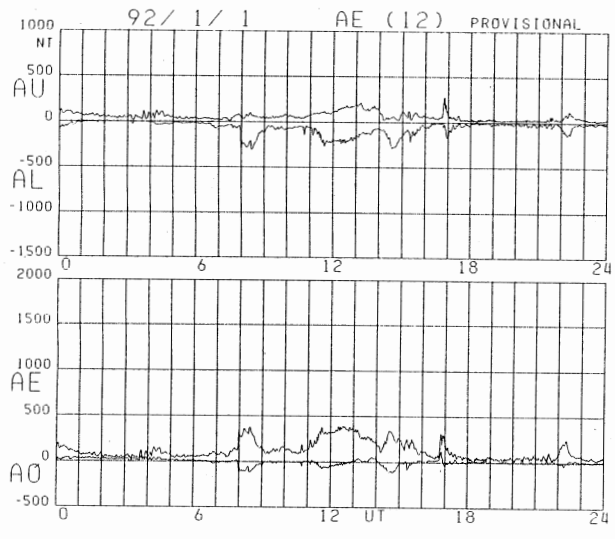
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2	-106	11	19	28	-51	-47	31	13	12	-41	7	5	-1	-72	-10	2	-61	-98	-71	-4	-4	-25	-15	-45	-21
3	-27	-31	-57	-19	-59	-50	23	12	9	-1	-102	-38	-94	-10	-14	-65	-79	-135	-67	-62	-40	-119	-42	-42	-46
4	-47	-31	-72	-82	-33	-35	-73	-26	1	-37	-75	-51	-25	-219	-127	-18	-16	-94	-134	-35	-27	-11	-16	-112	-58
5	-93	-82	-48	-20	12	21	-2	-54	-49	-31	-8	-19	-16	-13	-37	-53	-88	-43	-5	10	13	11	10	3	-24
6	-19	-13	5	10	12	13	9	-4	3	10	-10	-22	14	6	-31	-168	-104	-67	-10	1	11	14	18	17	-12
7	16	16	8	0	12	18	11	-1	-30	-37	3	-30	-178	-67	3	13	14	12	5	24	73	76	-23	-27	-3
8	43	61	58	25	20	4	-28	-37	10	17	-24	9	-95	10	-28	-15	-12	-129	-123	-12	-85	-247	-46	12	-25
9	-20	-10	-4	18	-13	-2	-58	51	25	10	2	0	-142	-174	-107	-79	-102	-49	-21	11	5	-73	-7	56	-28
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13	-29	28	58	-22	28	43	31	3	-37	23	55	20	-20	-5	24	9	-2	-14	3	6	-1	-9	-28	-6	6
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21	11	15	15	17	27	8	16	-43	-90	-72	-86	-63	-61	3	-19	-15	-54	-221	-154	0	27	-1	-44	-6	-32
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29	-26	-88	-39	-90	-120	-108	-56	-8	-210	-71	-66	-151	-114	-153	-191	-272	-283	-88	-63	-101	-52	-69	-66	-76	-107
30	-69	-68	-22	-22	-45	-42	-12	-2	4	-23	-83	-166	-105	4	-14	-22	-44	-125	-29	6	7	1	-3	-12	-37
31	-60	-11	-9	-11	-9	-20	9	2	-32	-176	-54	-40	-118	-216	-105	-51	-71	-40	4	7	11	7	10	14	-40
Mean	-14	-6	0	1	0	0	4	-2	-21	-25	-27	-32	-52	-61	-40	-43	-58	-85	-58	-22	-19	-29	-16	-22	-26
5Q Mean	-15	-12	-1	4	12	21	17	-3	-12	0	-6	-24	5	3	-17	-53	-43	-41	-15	-8	8	0	7	3	-7
5D Mean	4	-13	7	-3	-17	-14	-22	-16	-47	-16	-20	-27	-163	-174	-82	-96	-152	-228	-116	-62	-79	-132	-67	-70	-67

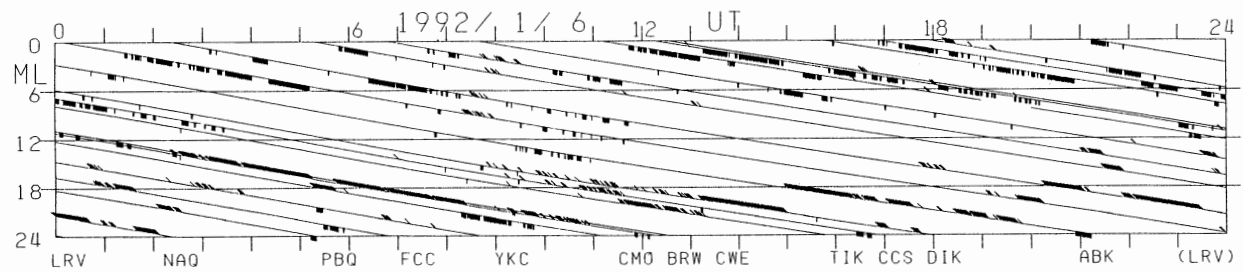
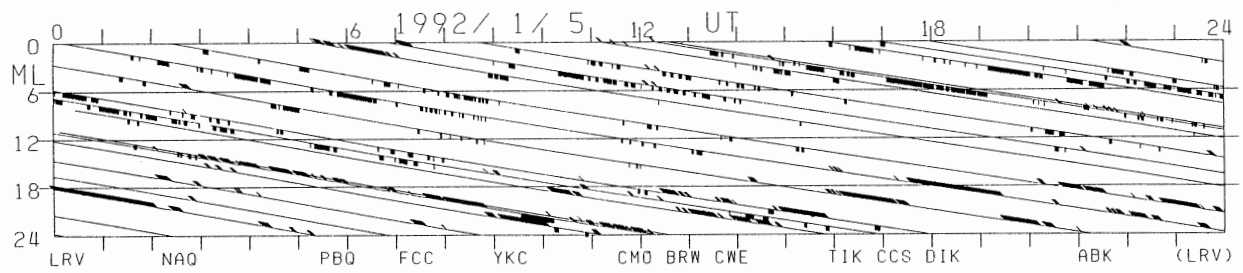
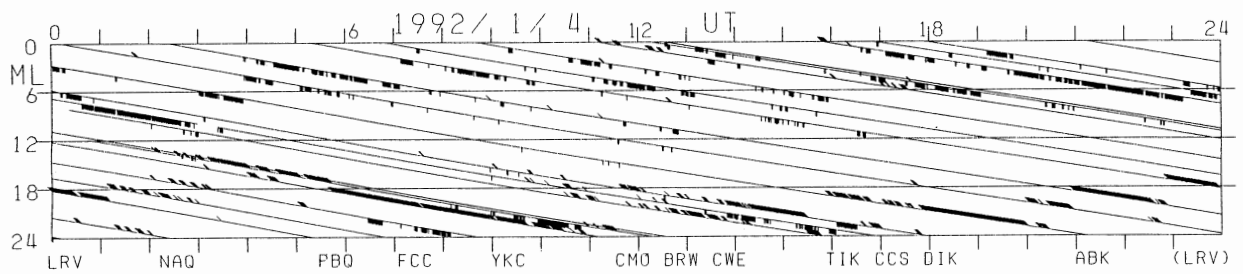
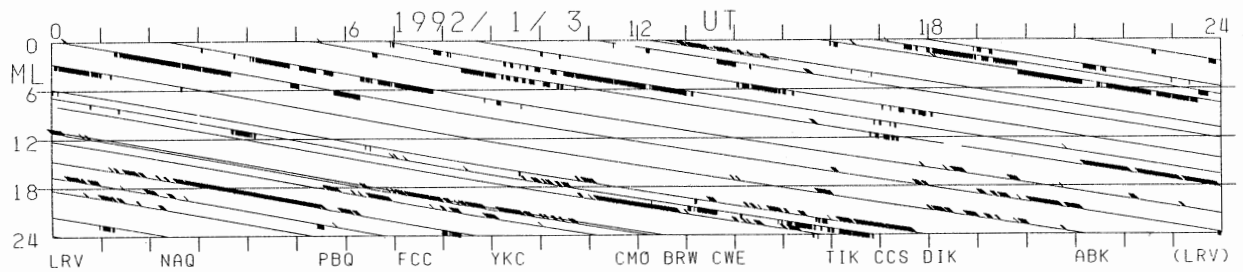
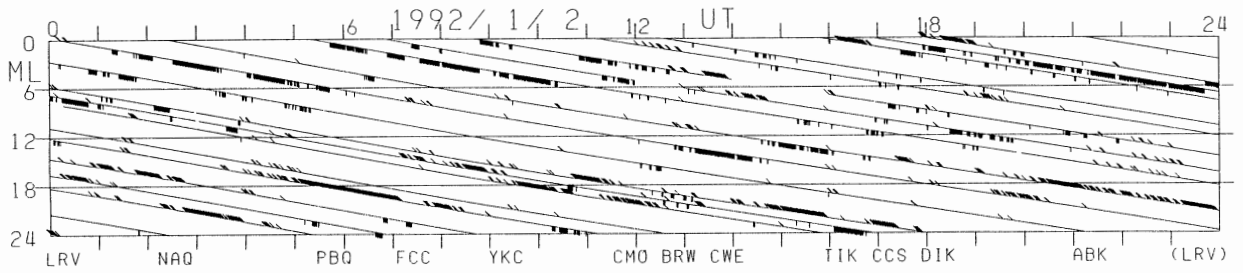
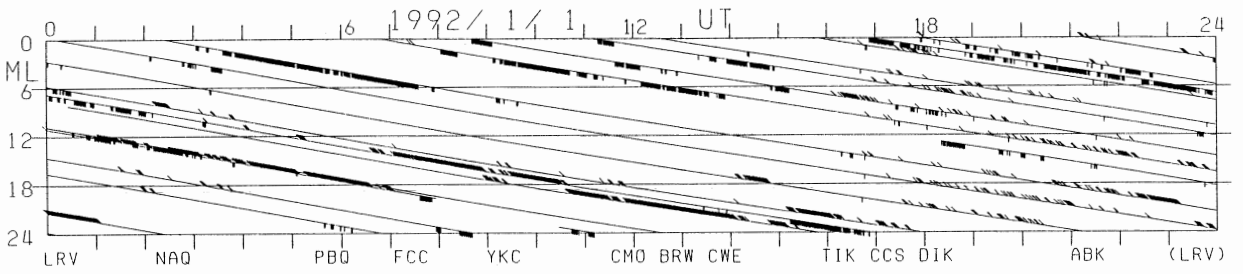
FIGURE 4 (on even pages)

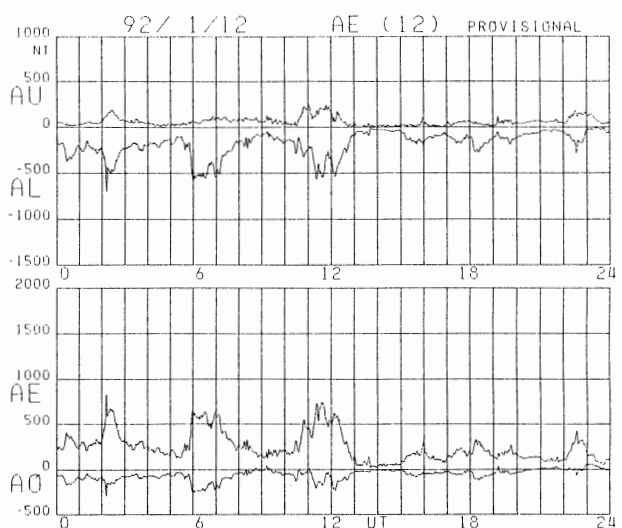
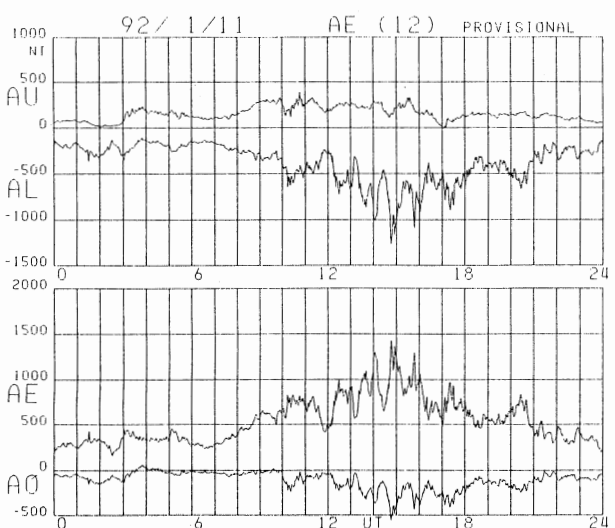
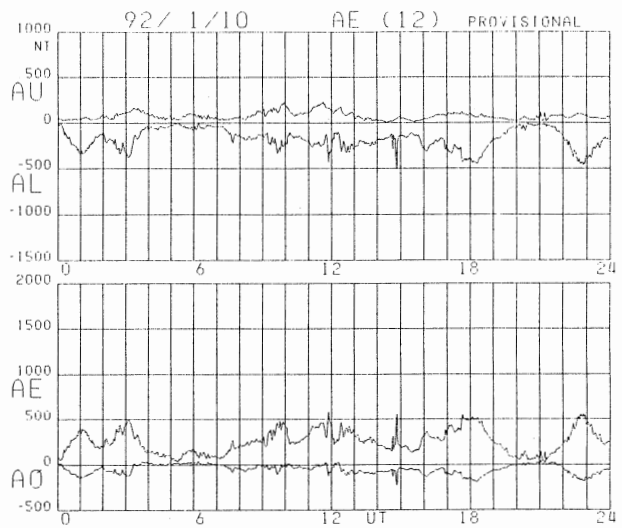
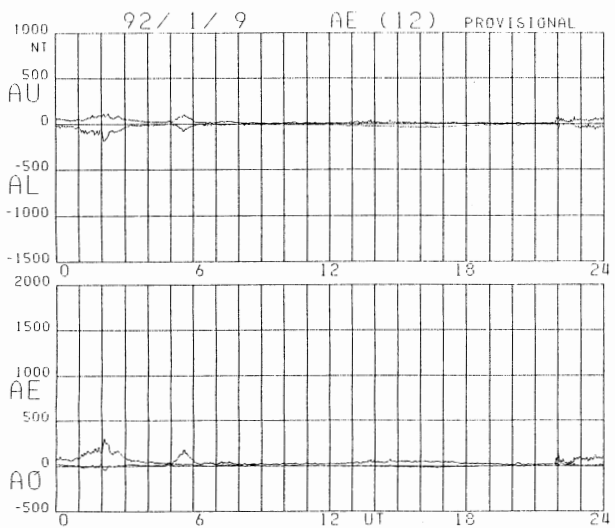
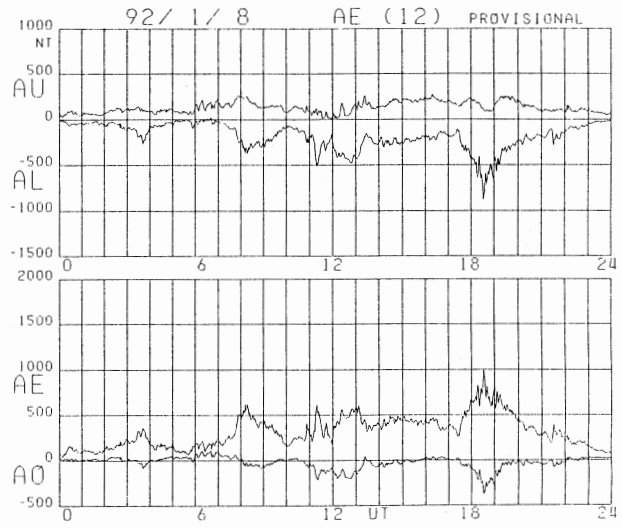
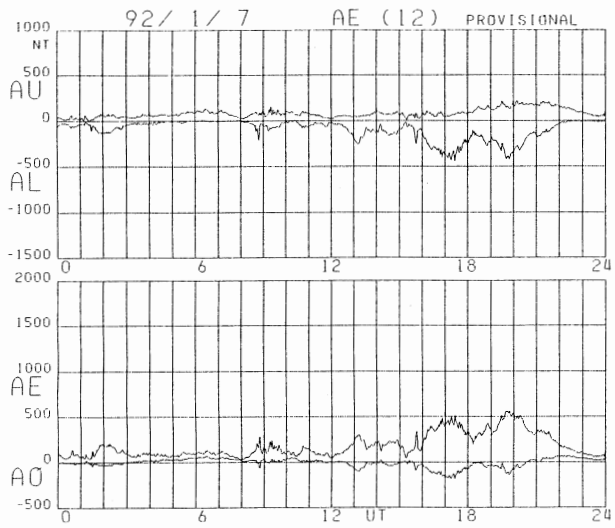
Daily graphs of 1.0 min AE indices (AU, AL, AE and AO) for January-December 1992. Graphs on disturbed days (Feb. 8, 9, 20, 26, May 10, 11, Sep. 4, 9, 29, Oct. 12, Nov. 4, Dec. 17, 28 and 29) are reproduced on pages 194 - 197.

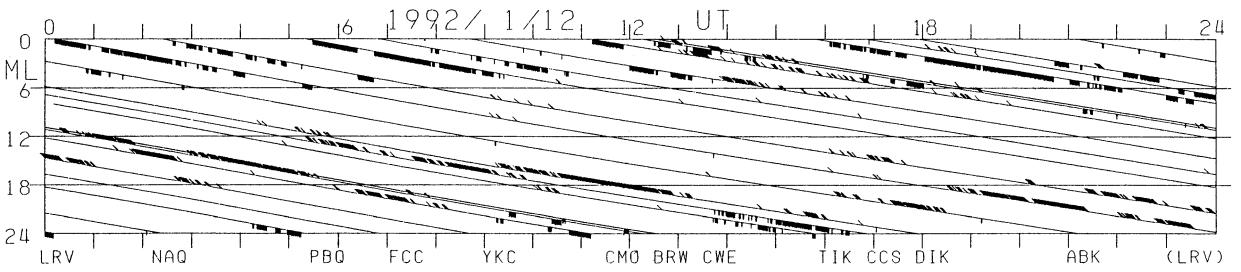
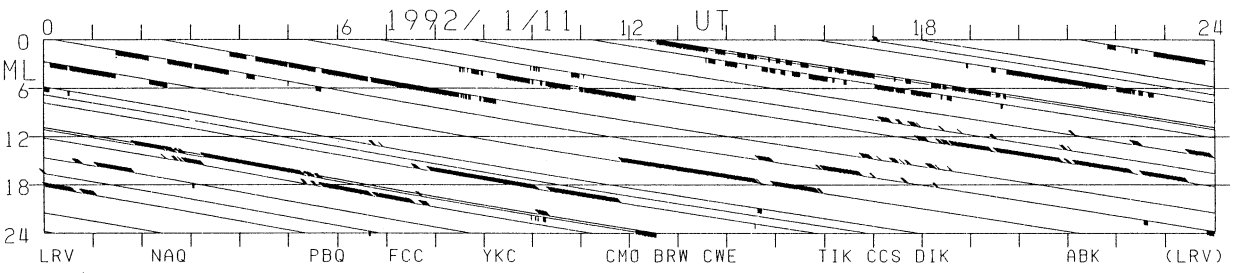
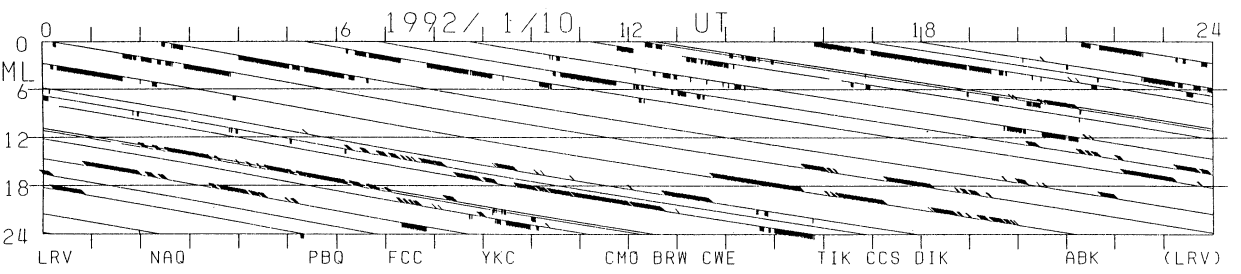
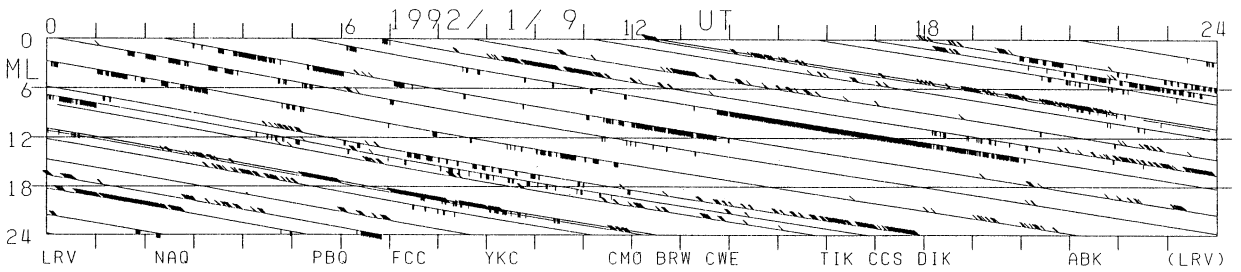
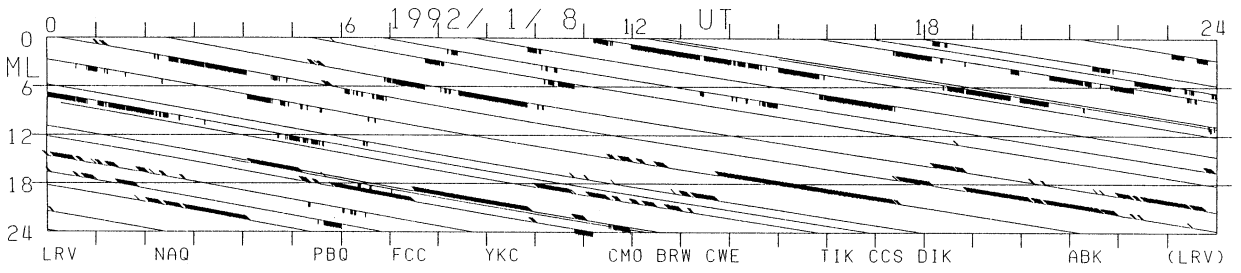
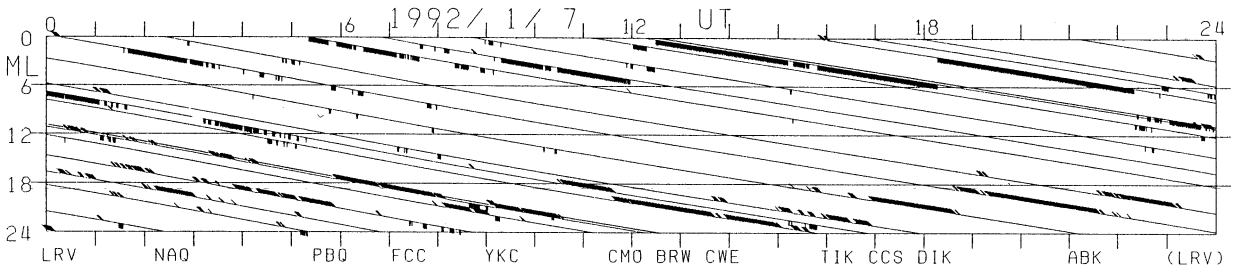
FIGURE 5 (on odd pages)

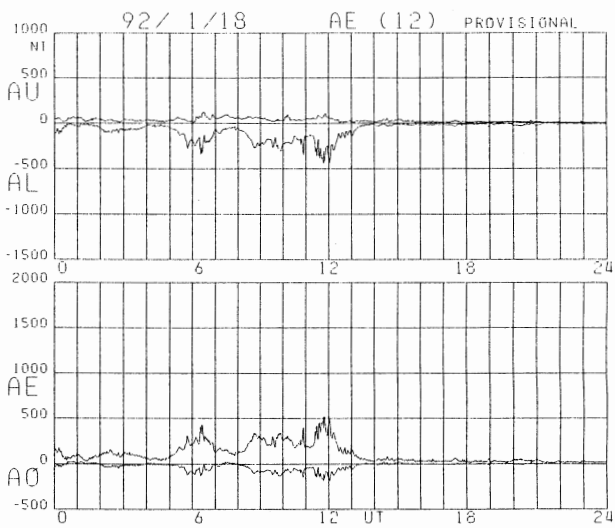
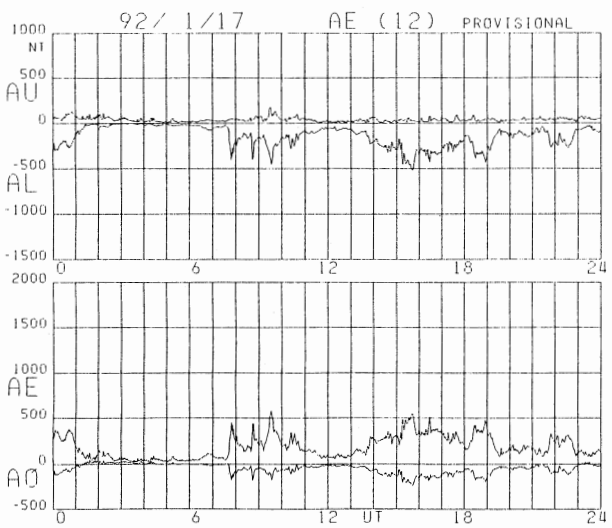
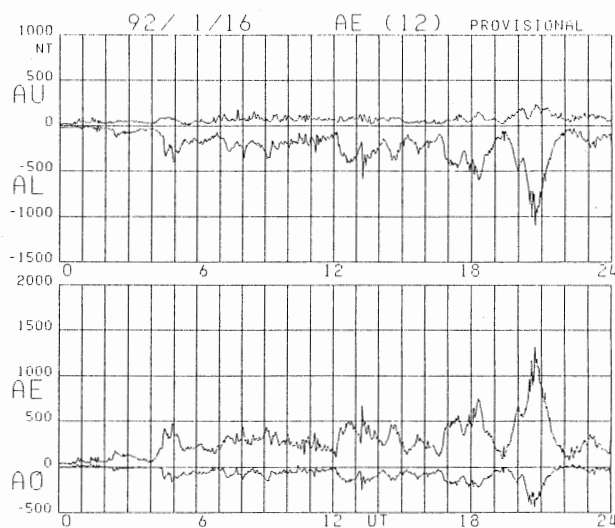
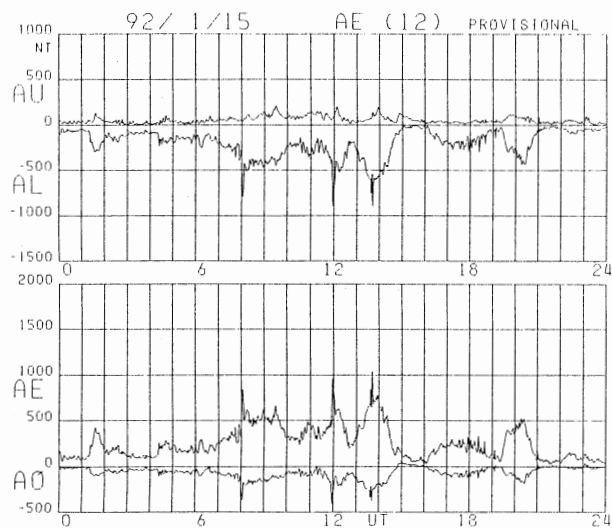
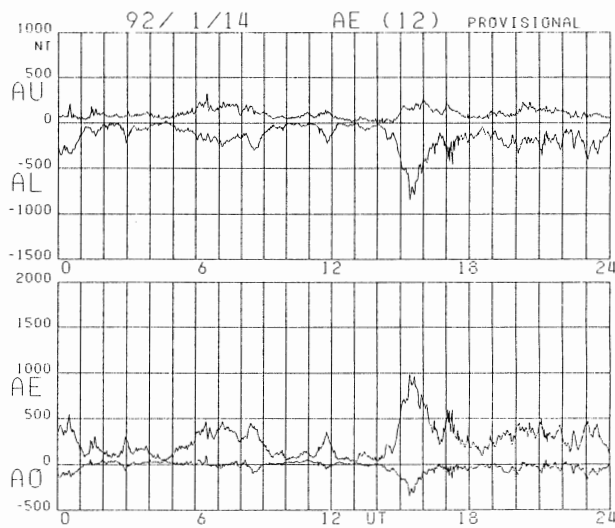
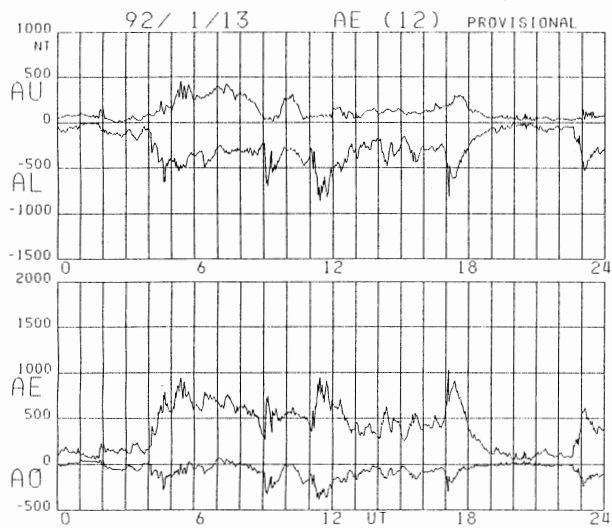
Plots of the contributing station to the AU (upper plumes) and AL (lower plumes) indices, showing which station contributes to these indices at each UT minute.

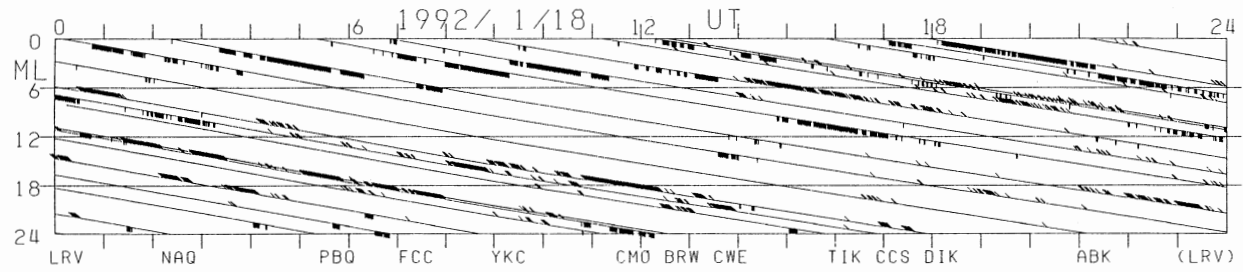
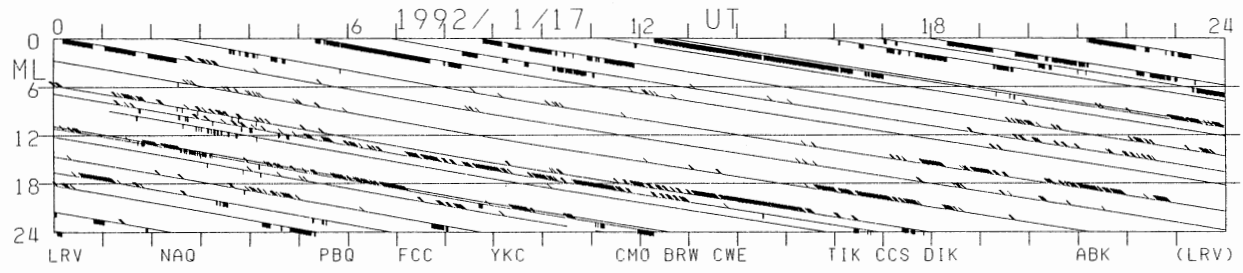
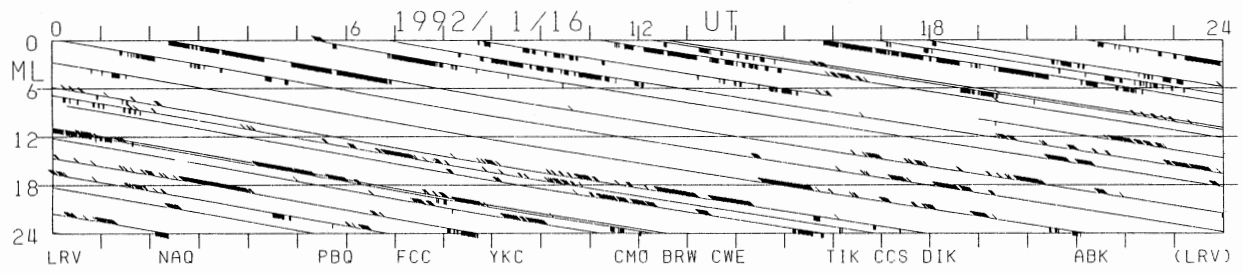
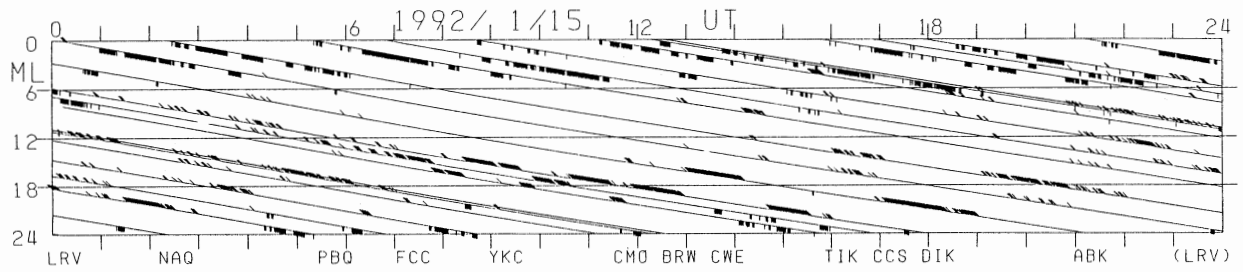
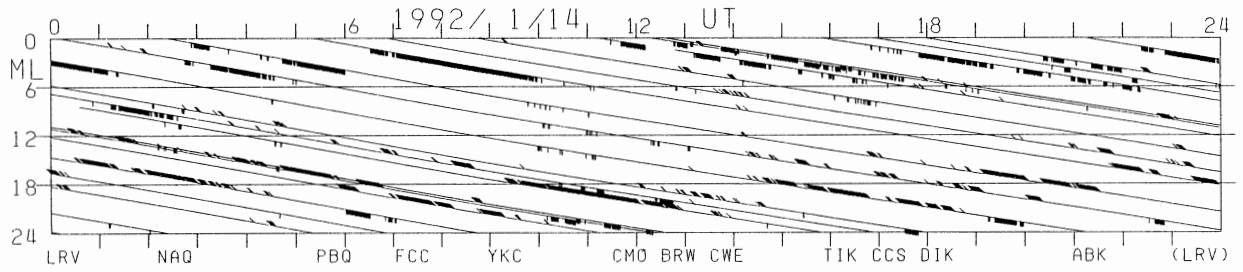
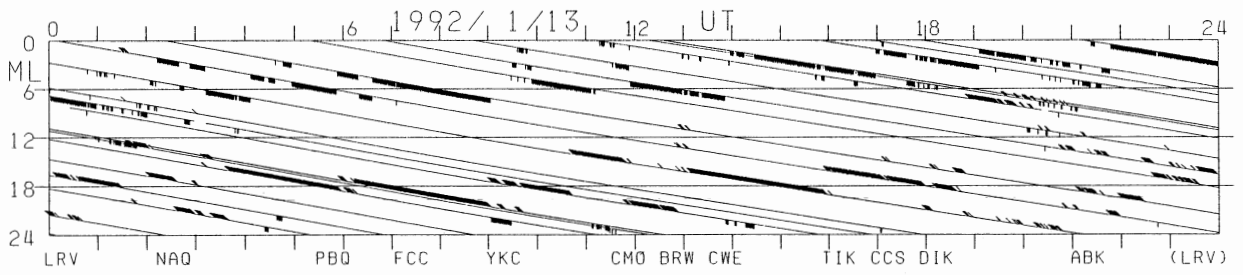


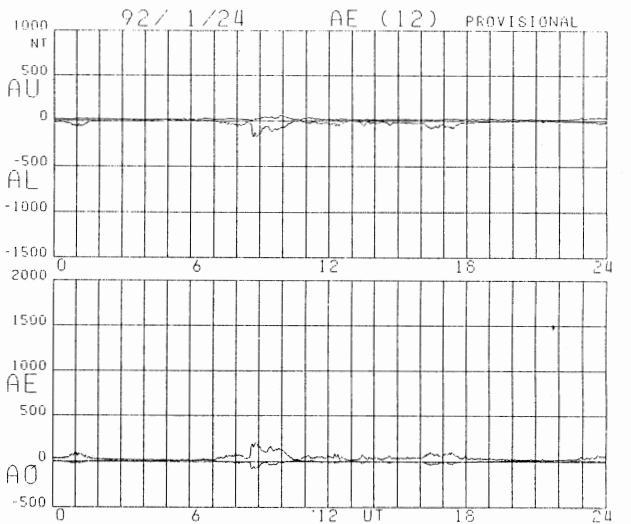
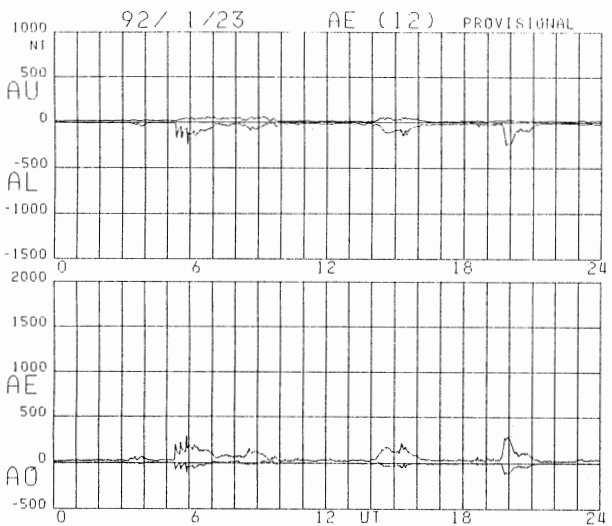
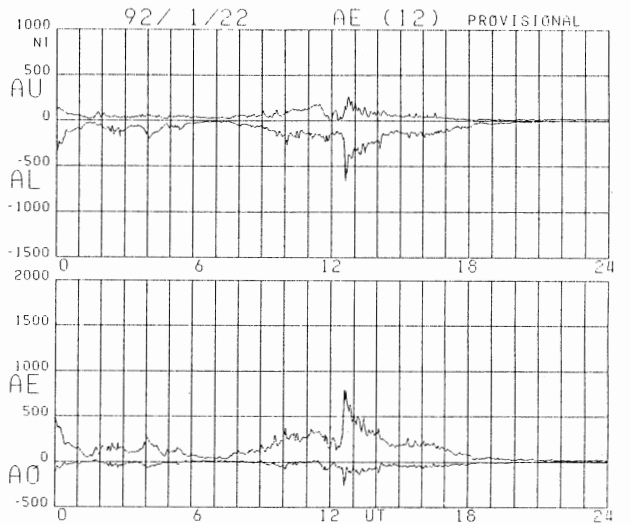
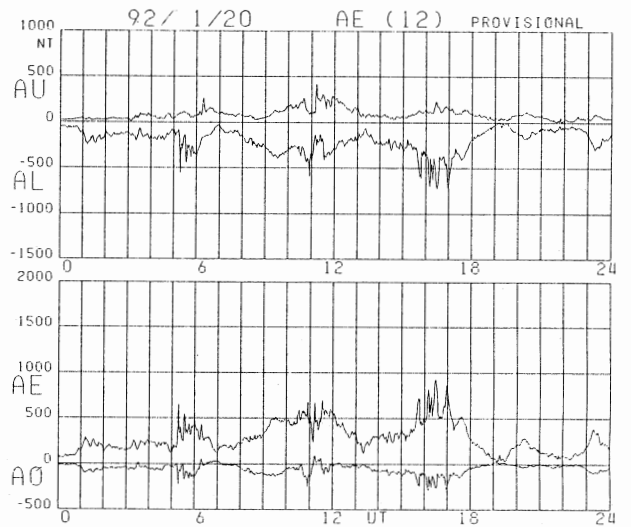
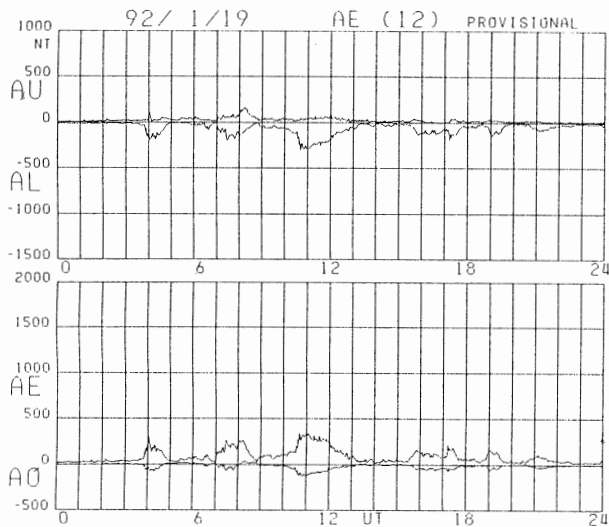


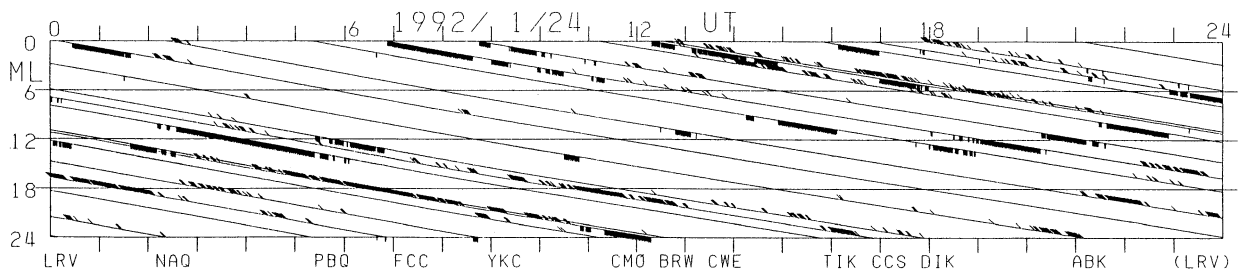
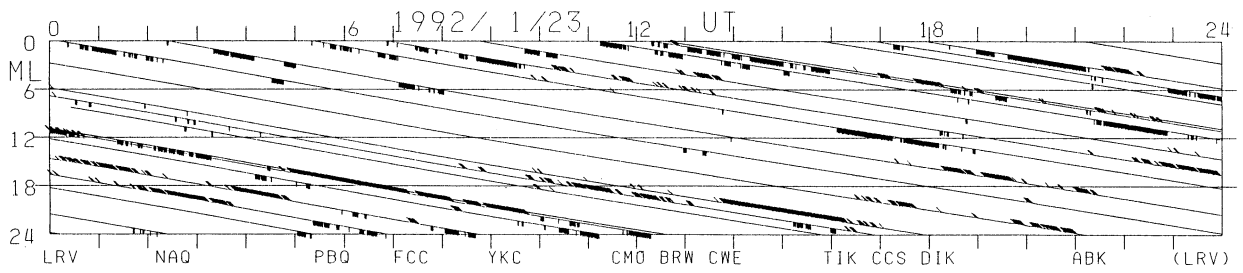
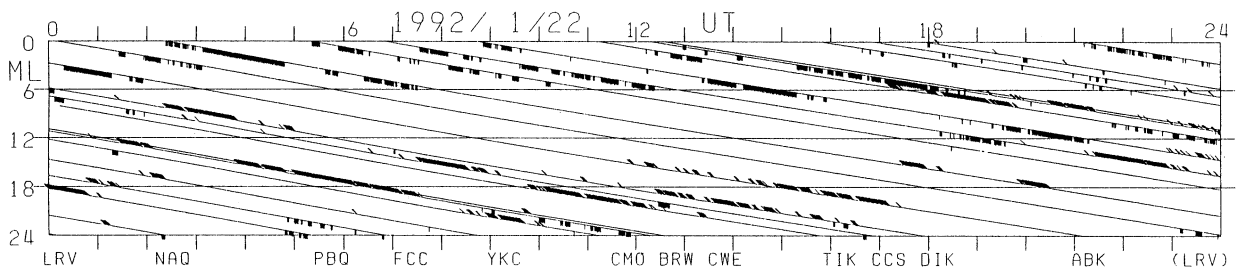
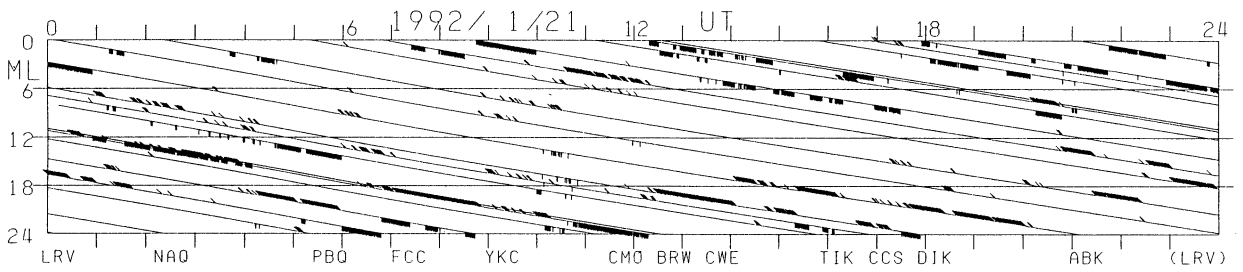
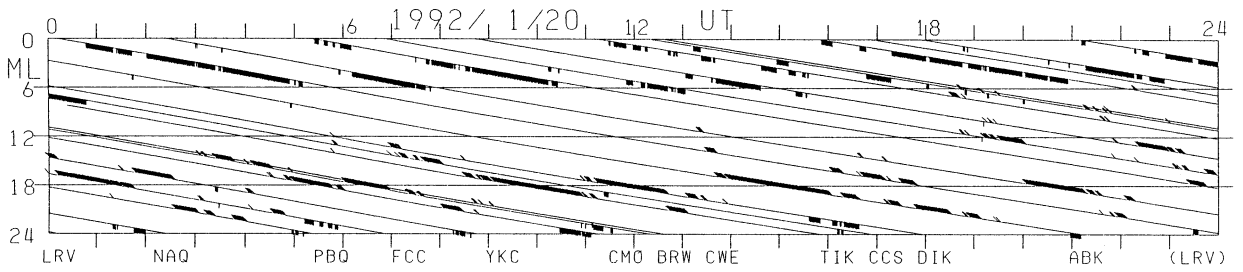
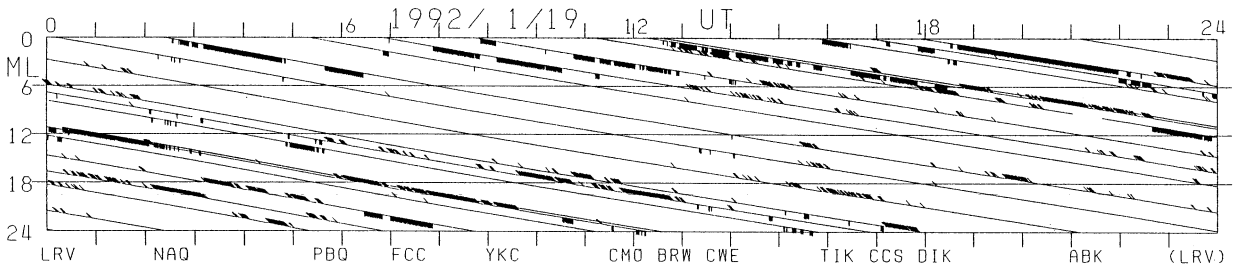


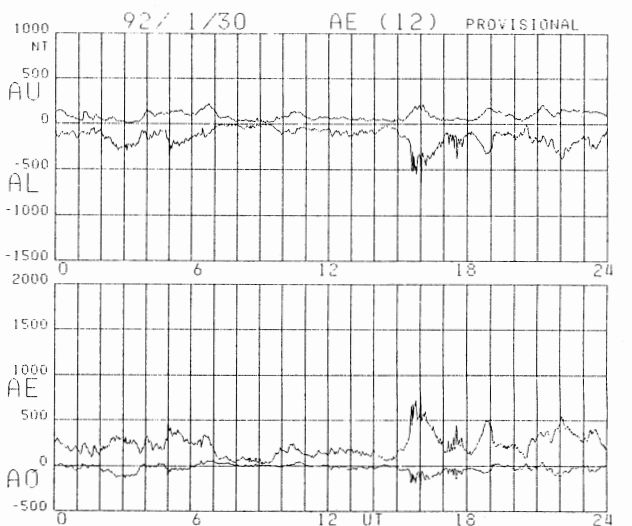
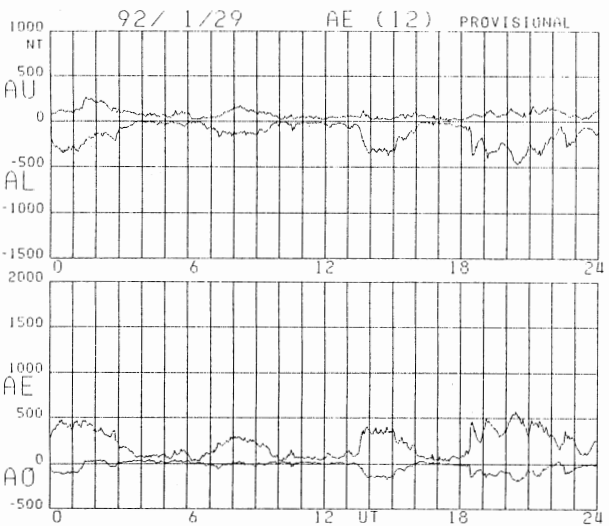
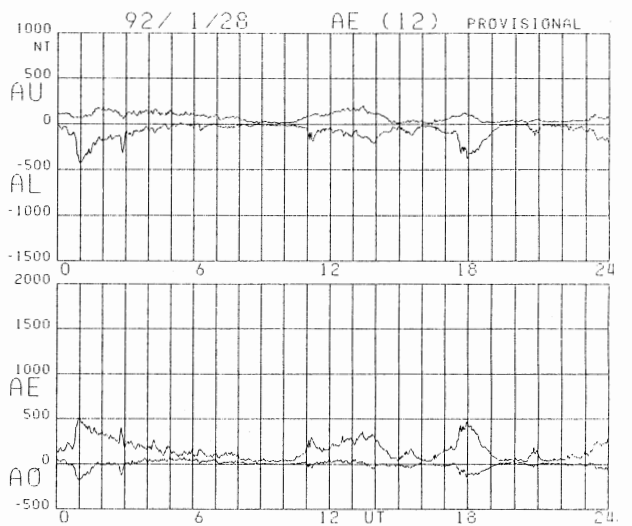
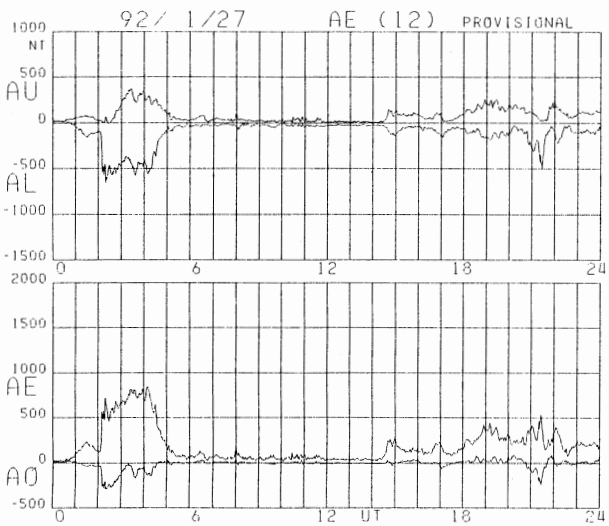
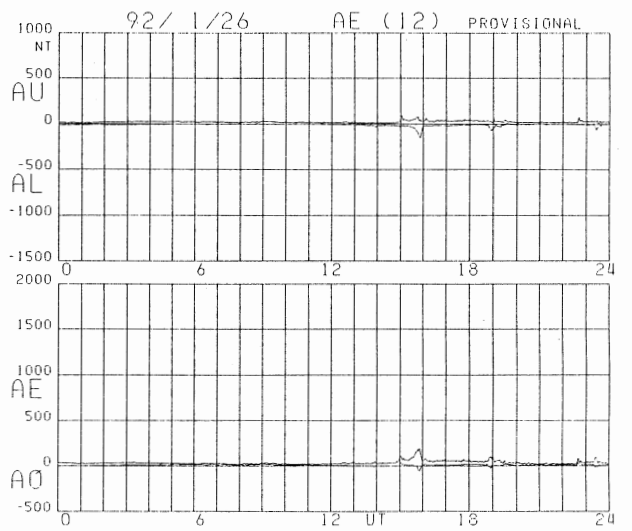
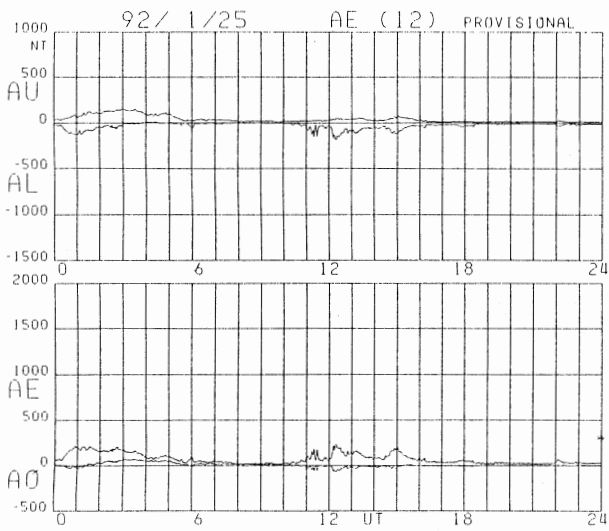


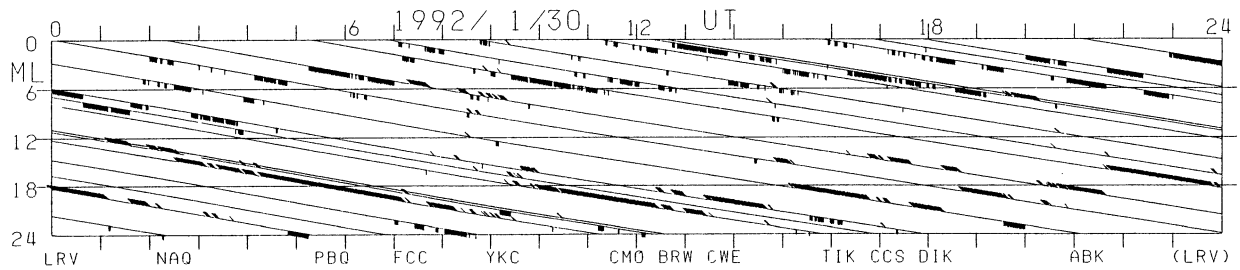
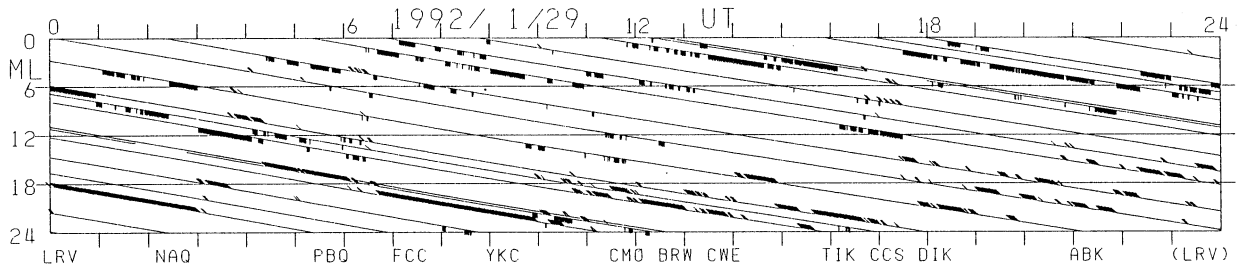
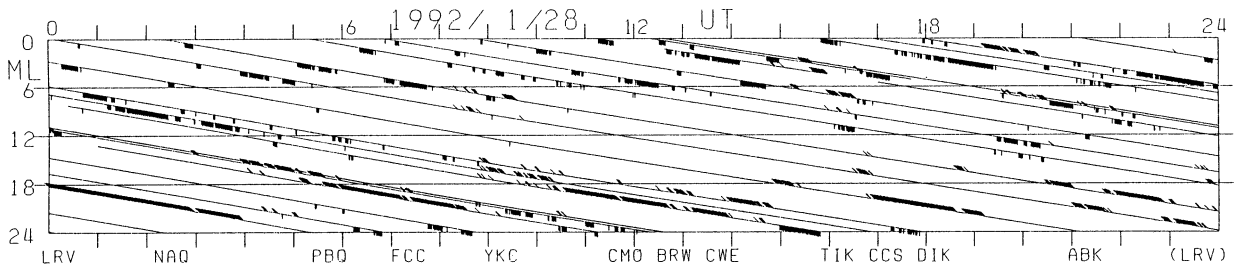
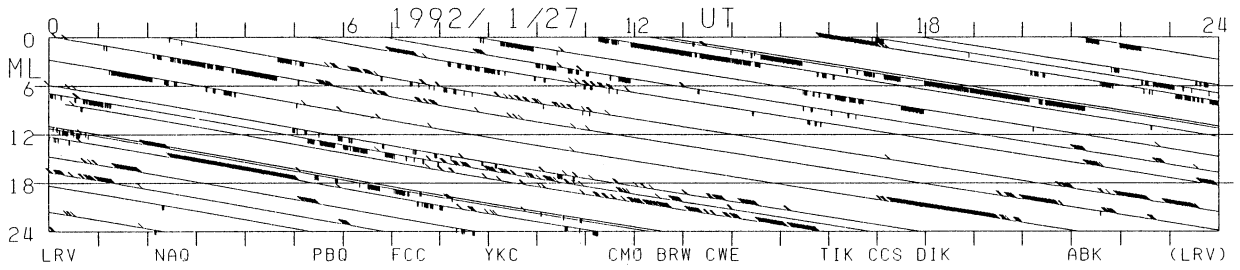
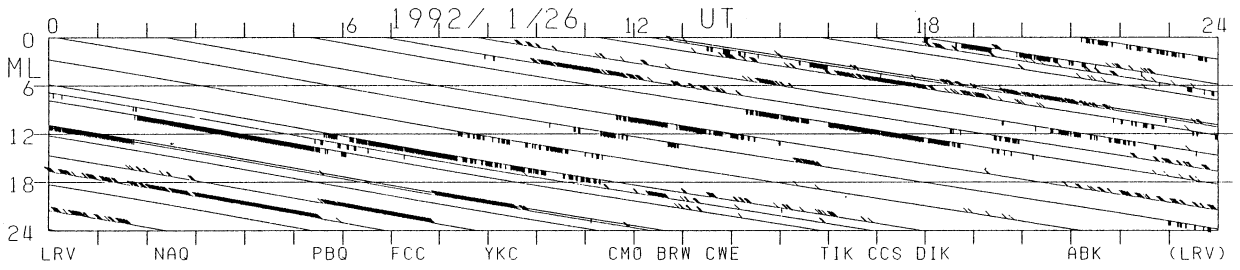
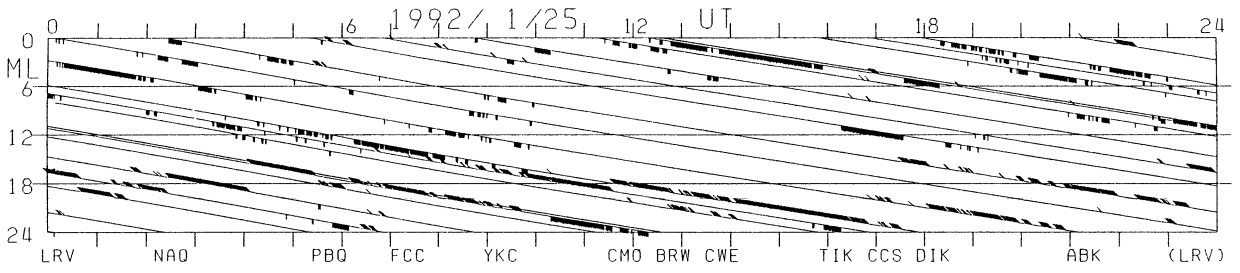


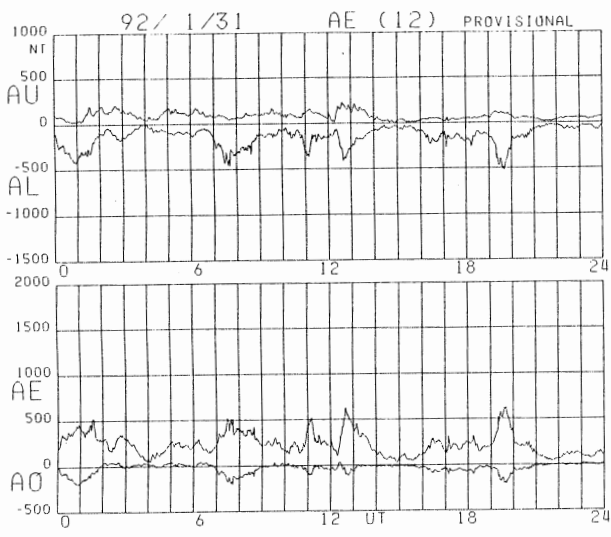


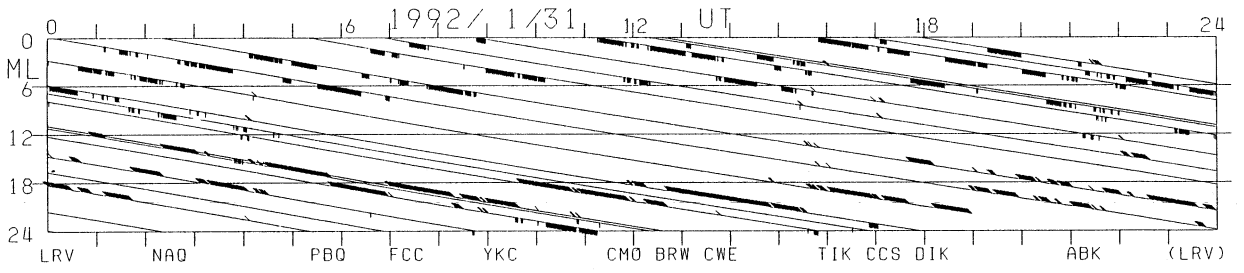


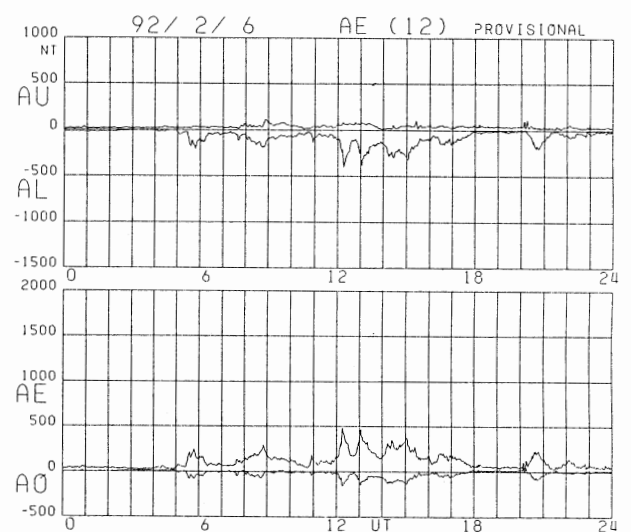
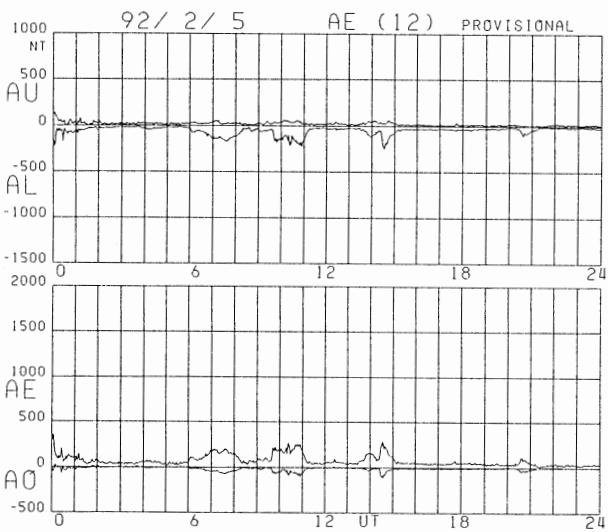
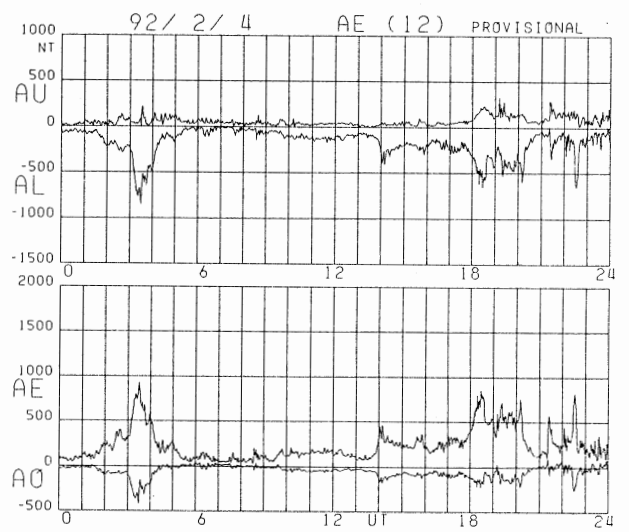
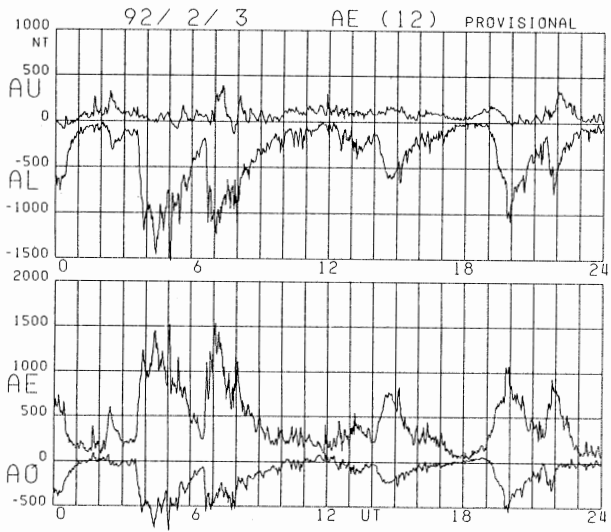
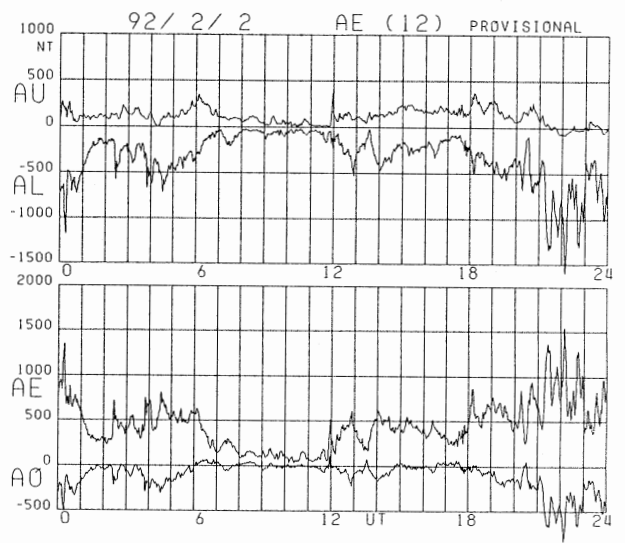
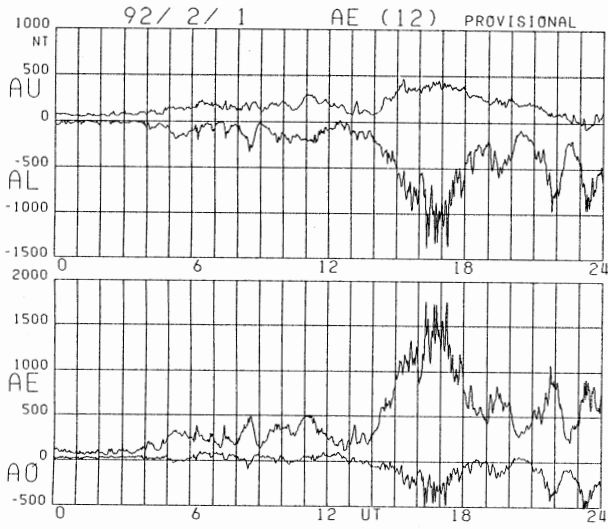


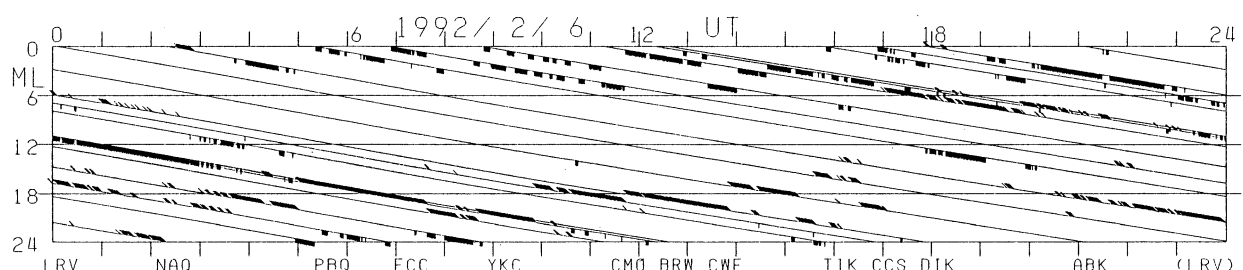
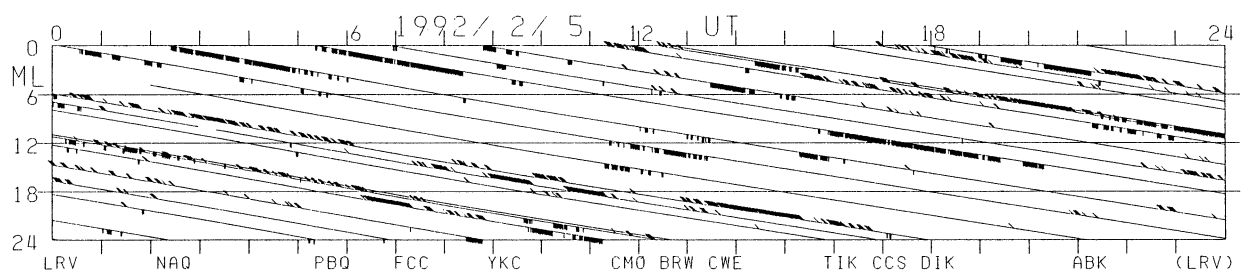
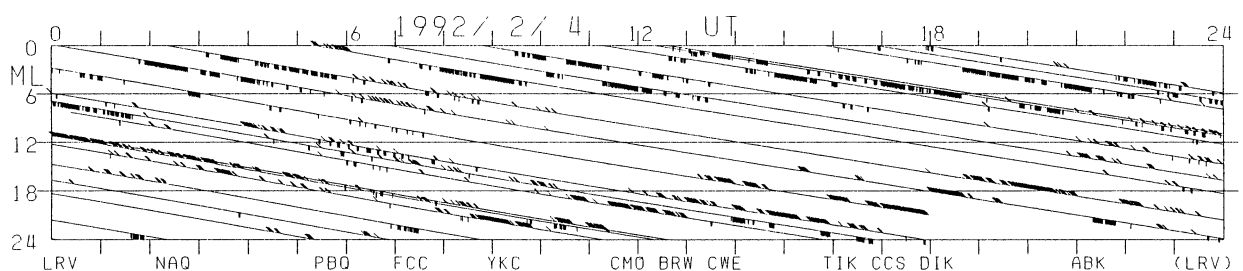
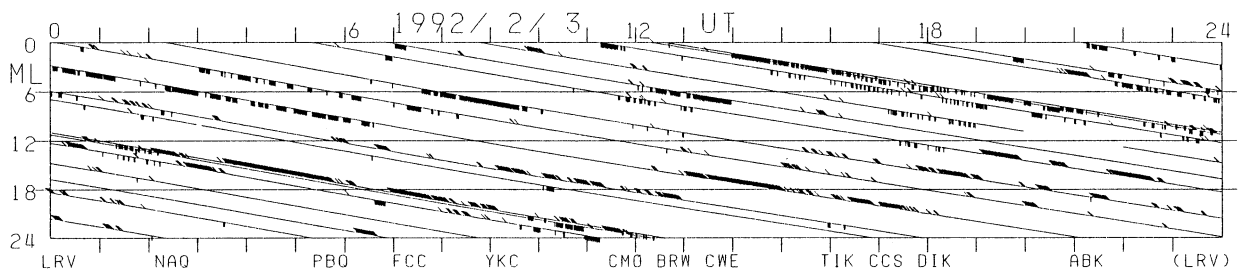
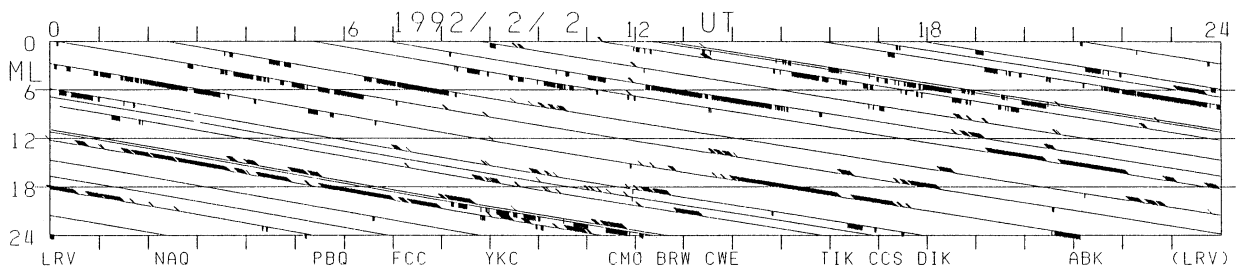
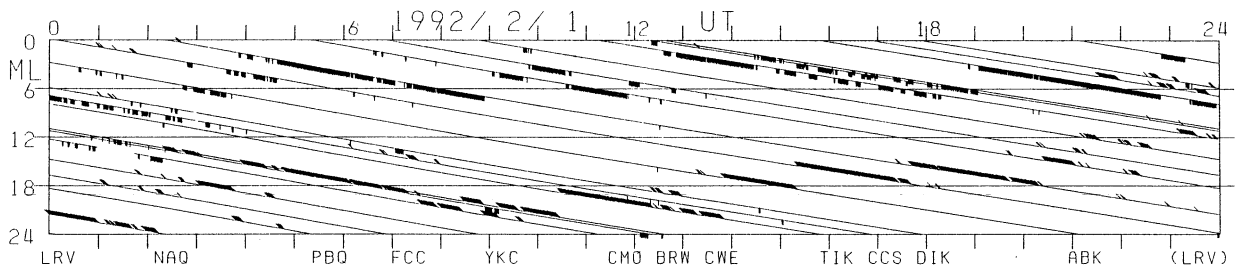


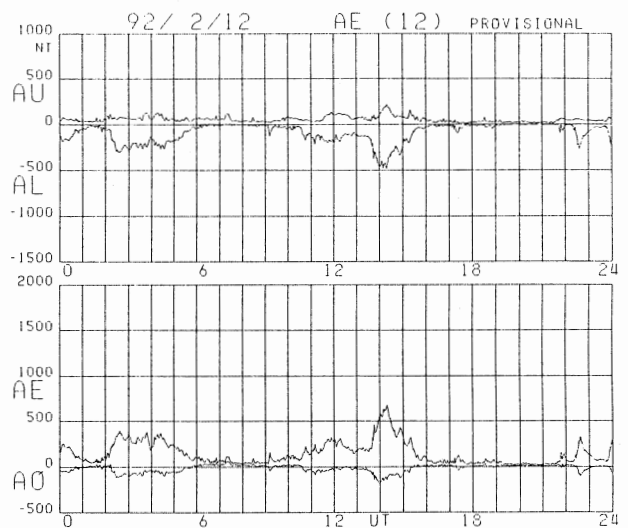
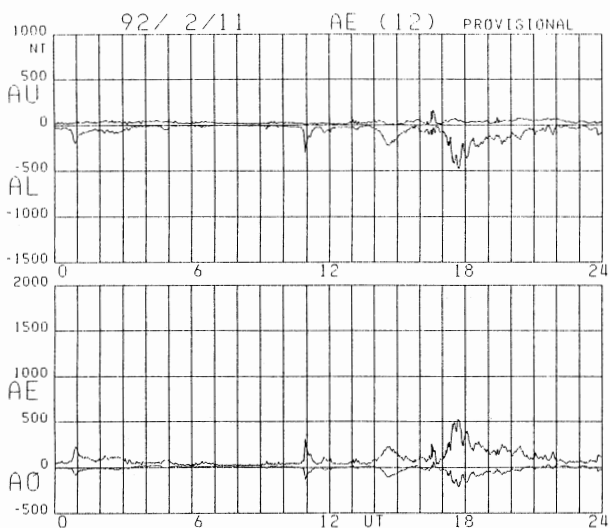
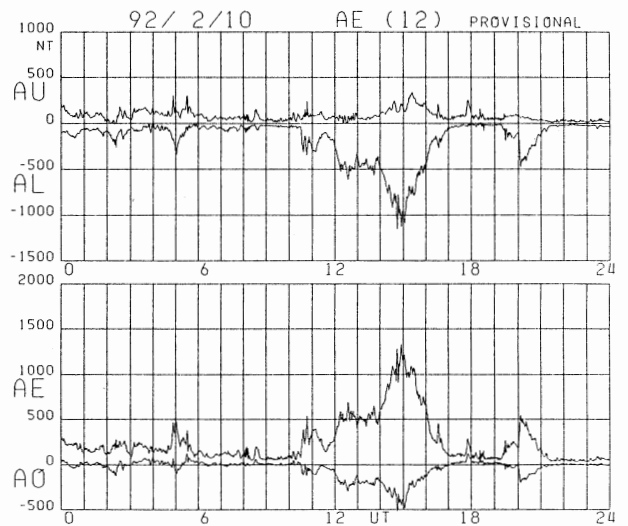
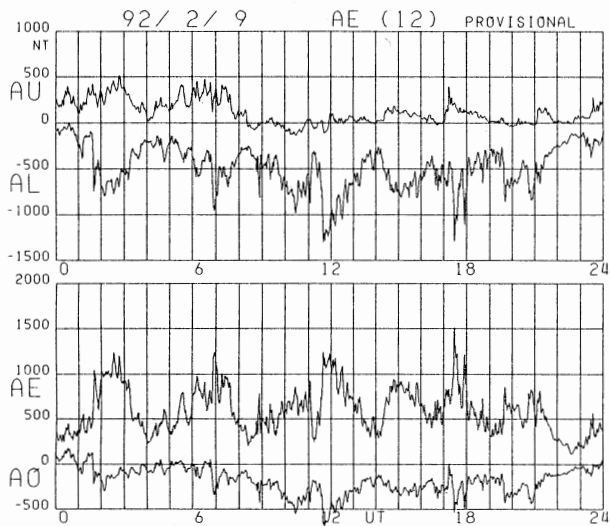
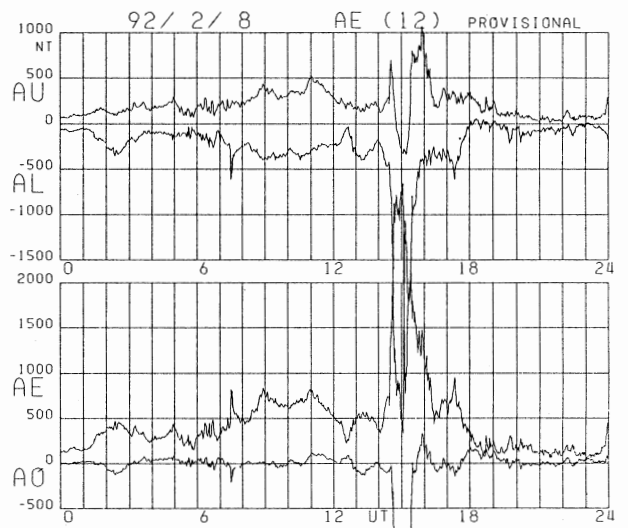
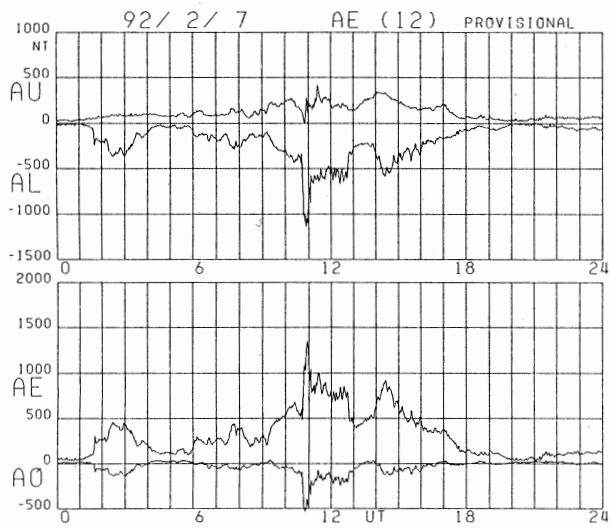


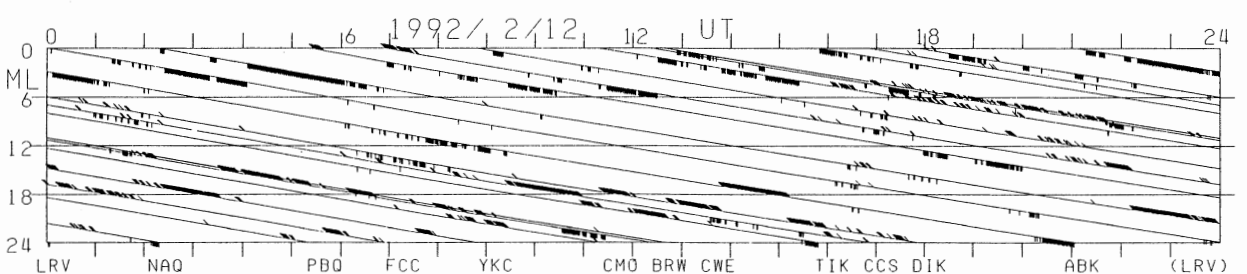
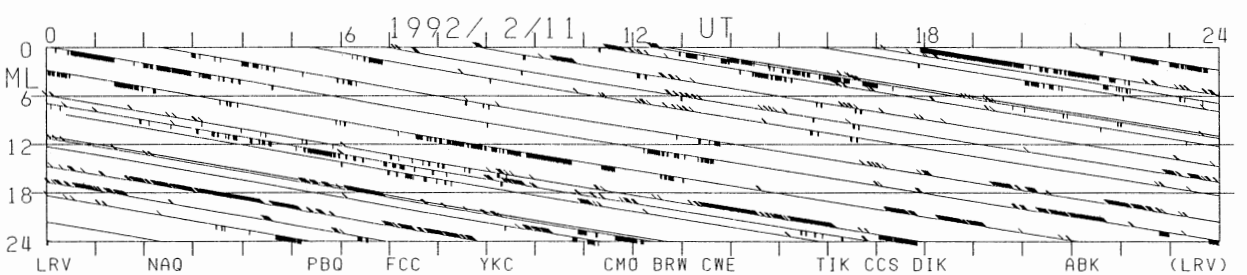
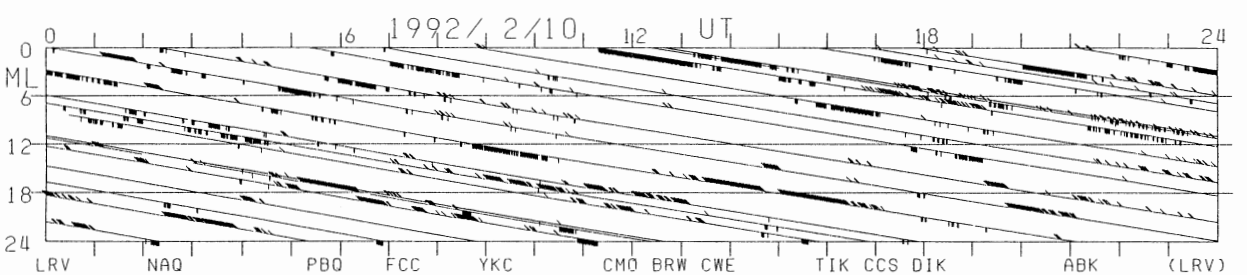
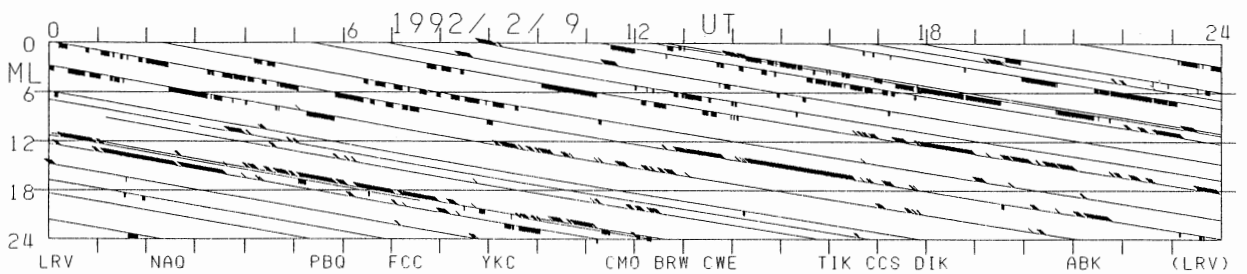
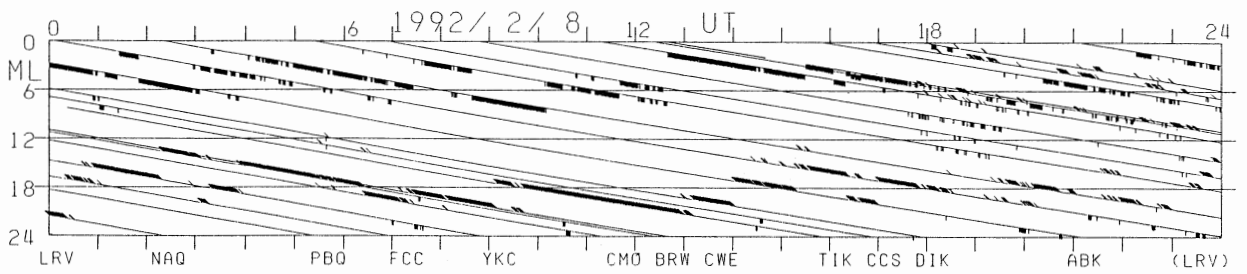
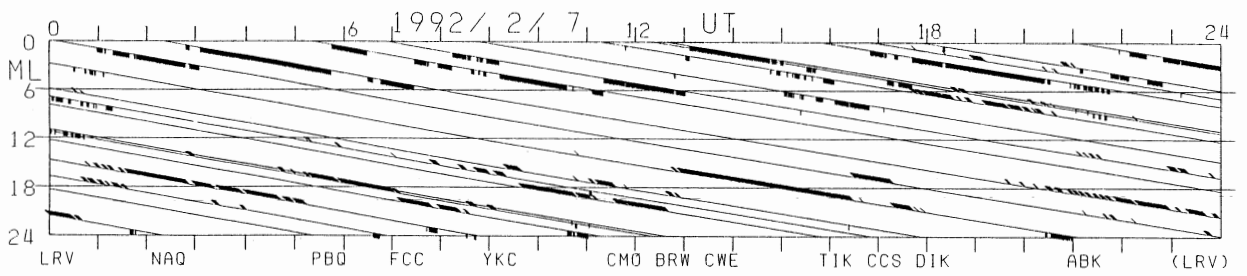


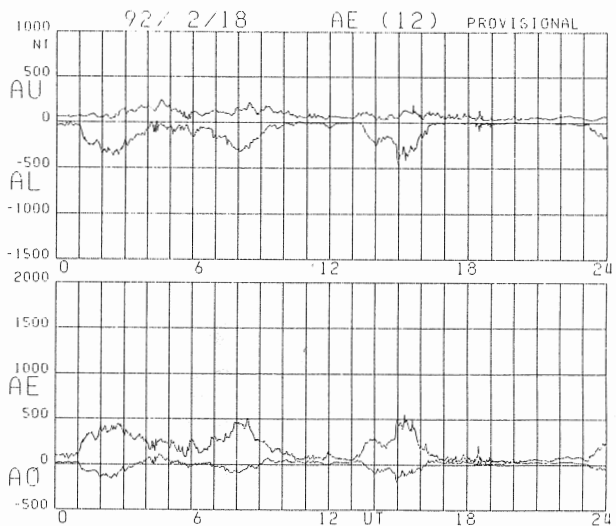
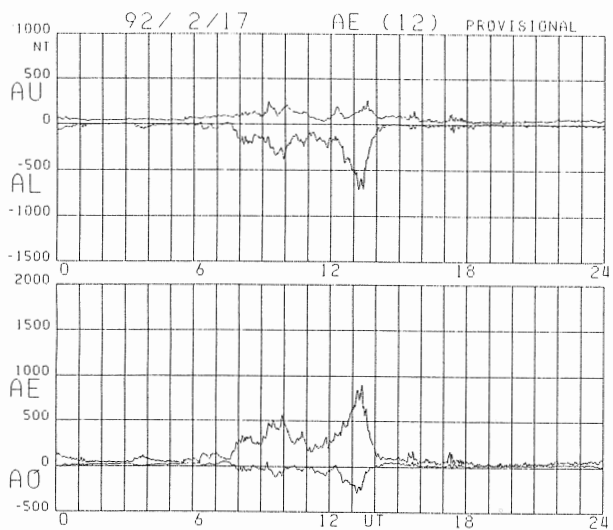
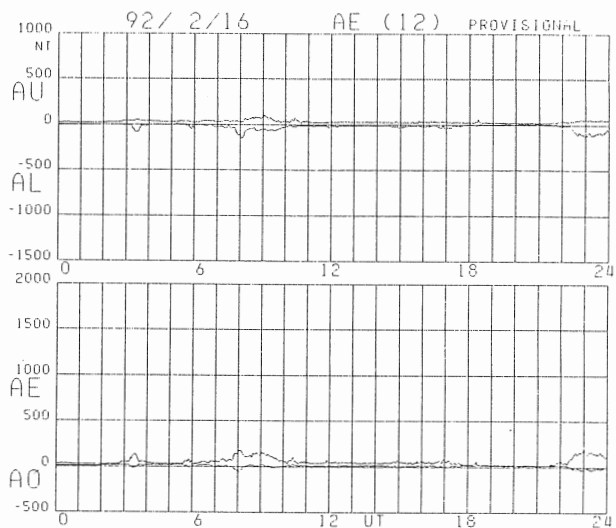
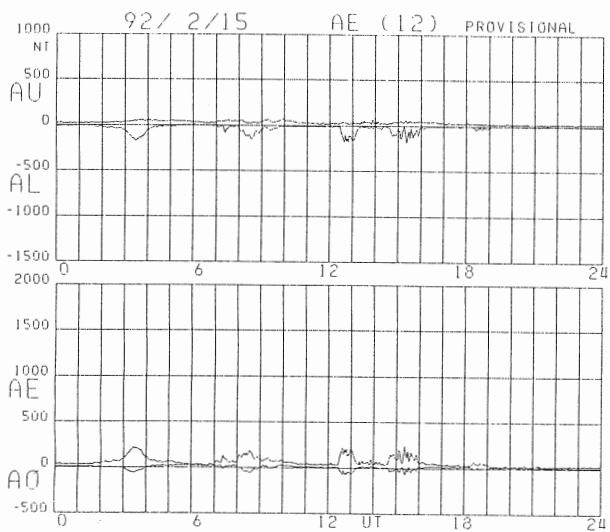
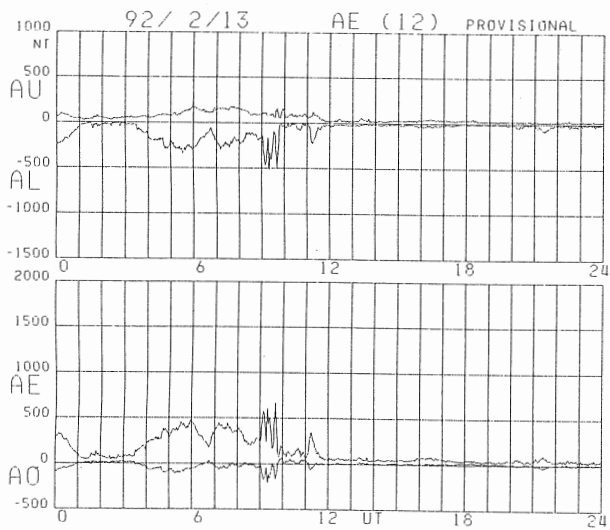


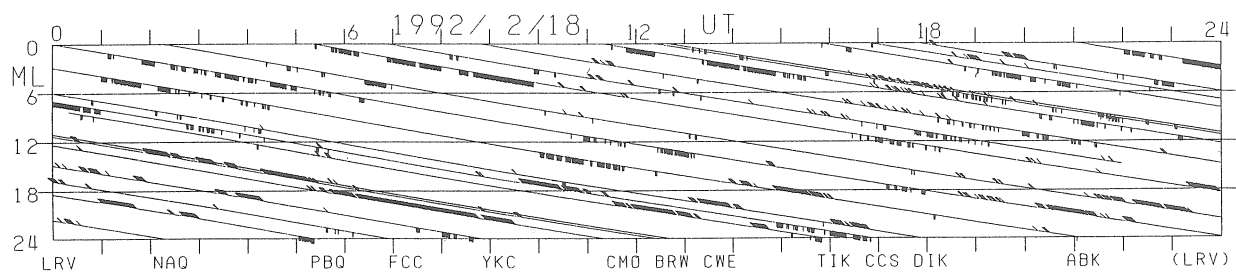
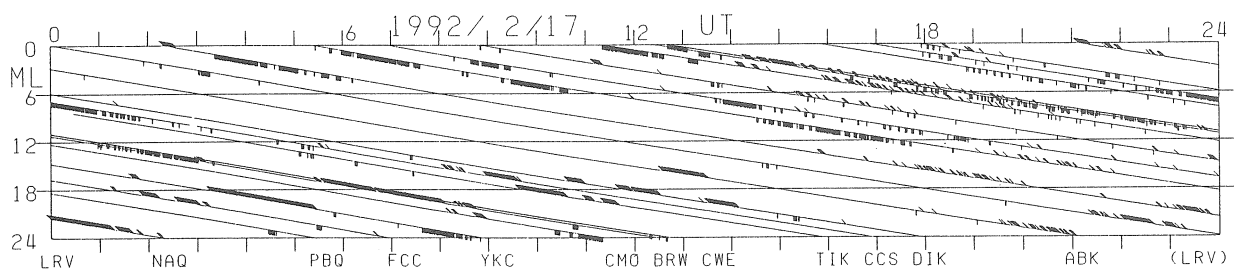
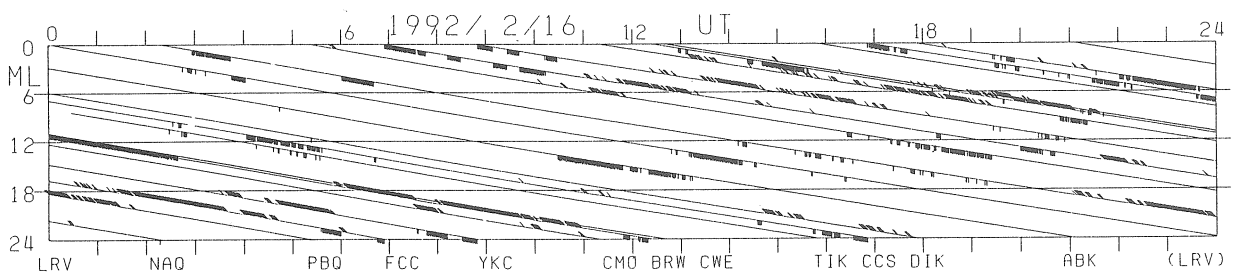
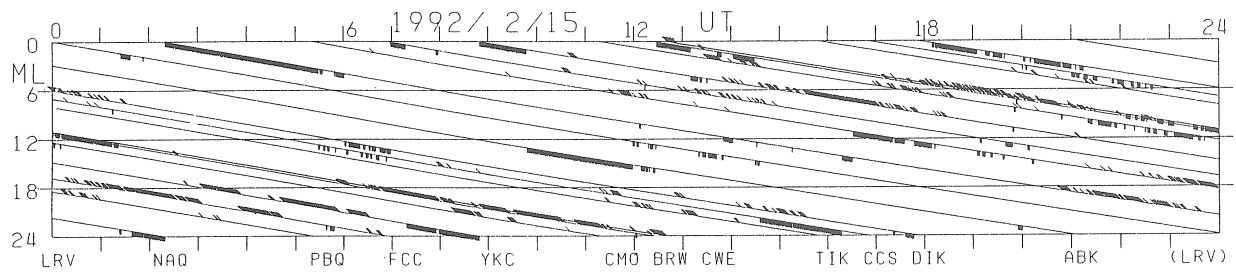
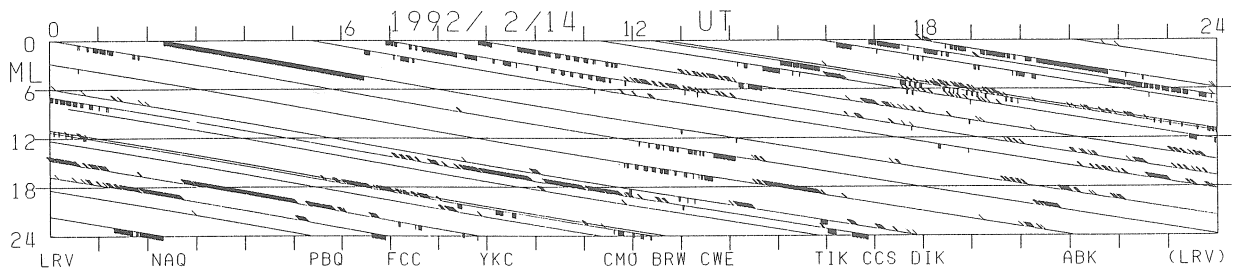
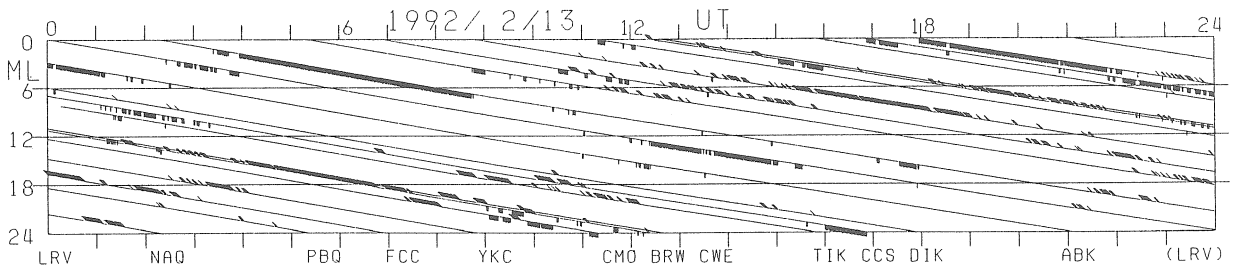


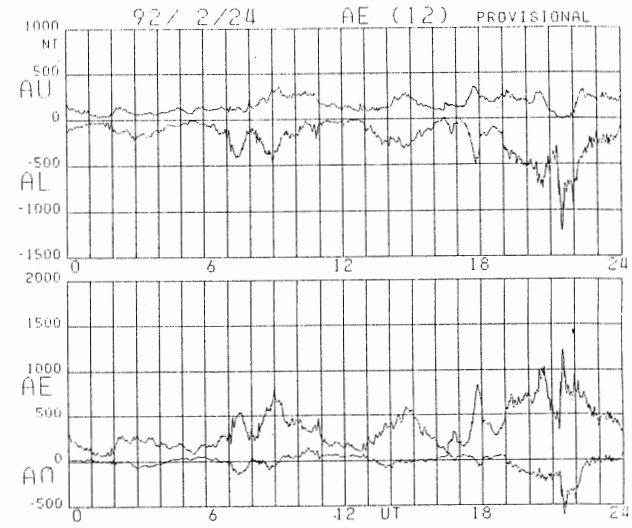
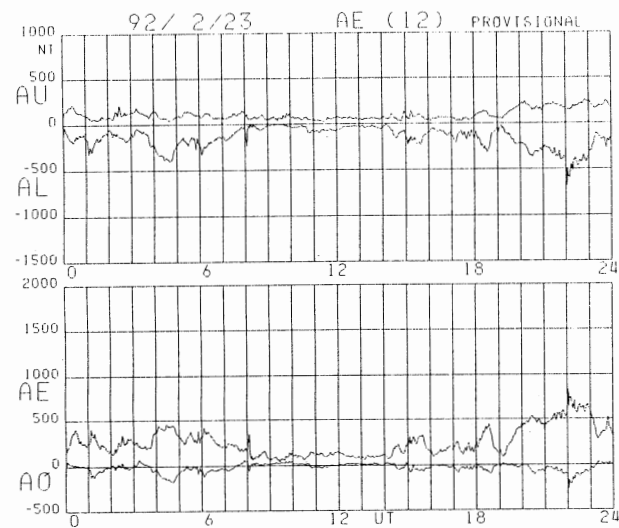
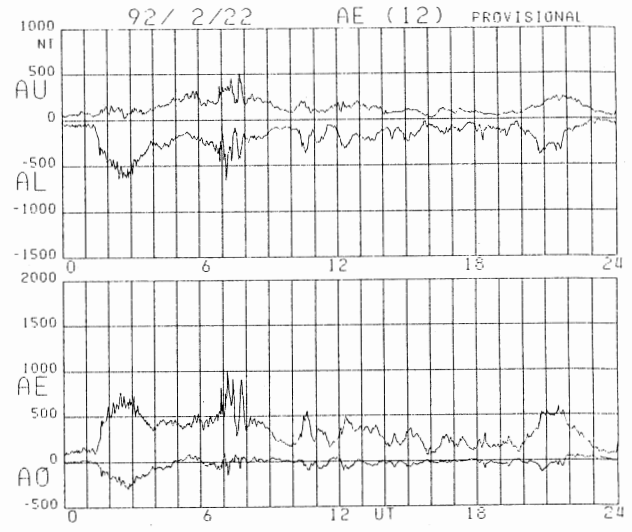
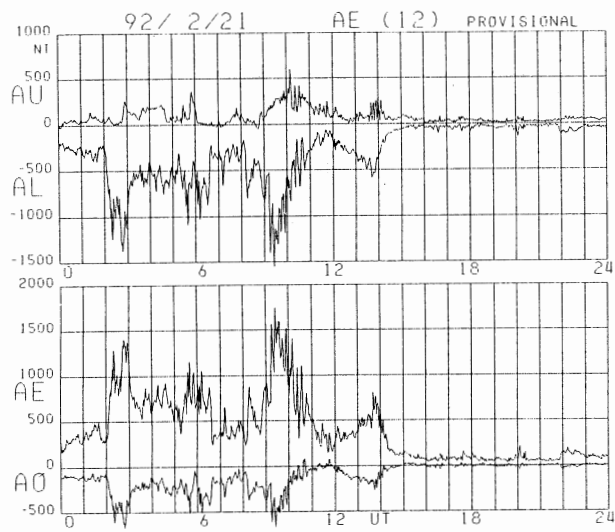
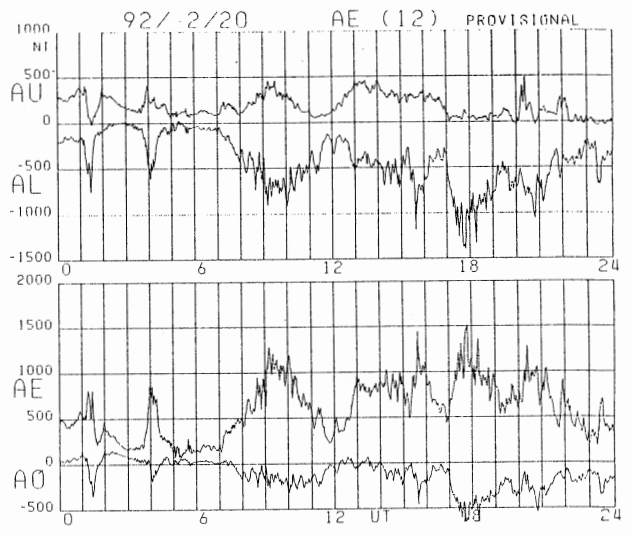
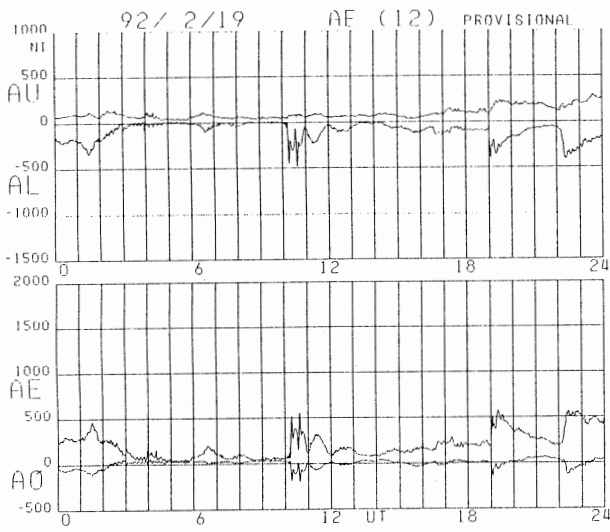


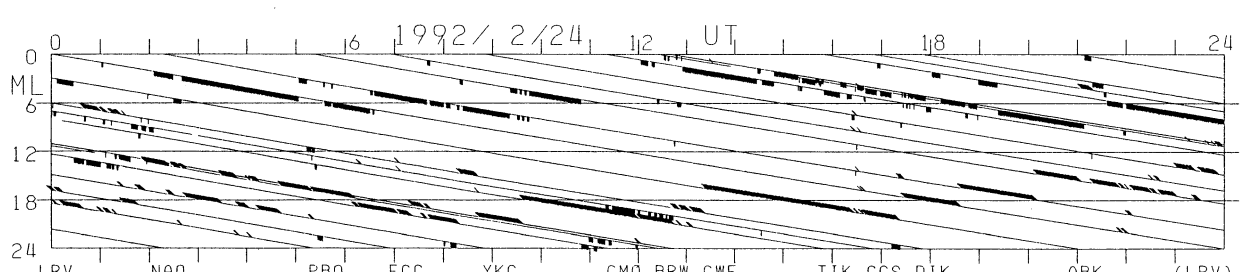
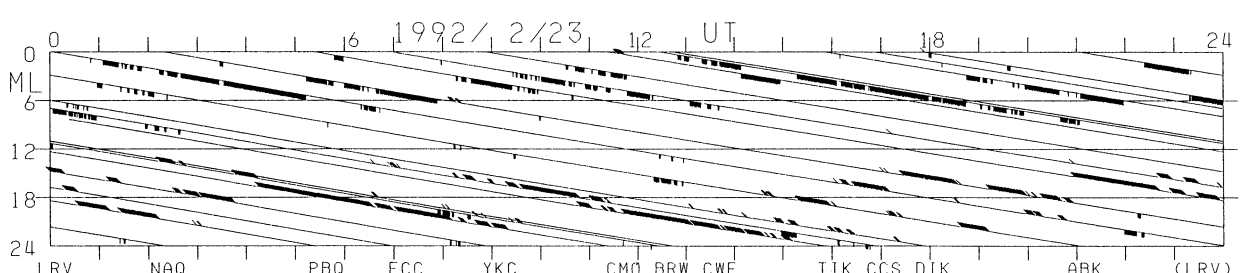
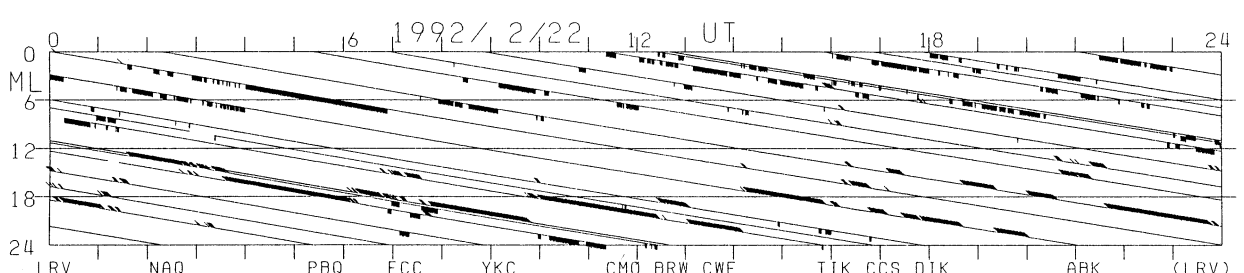
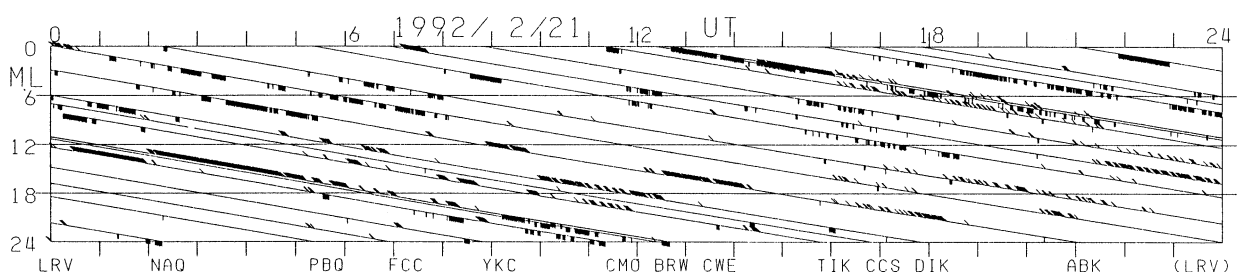
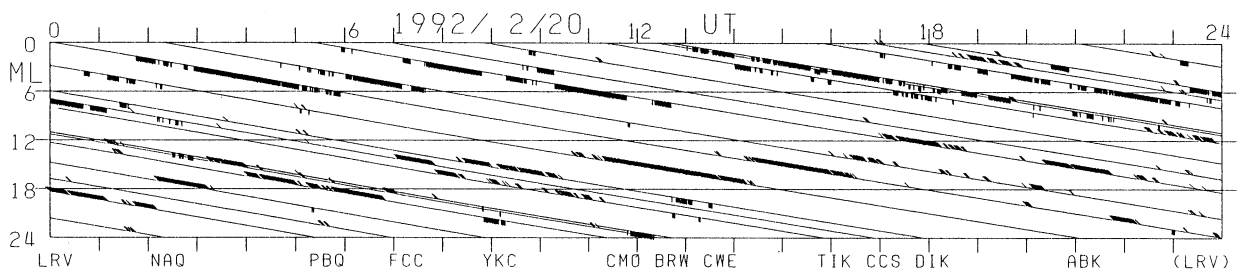
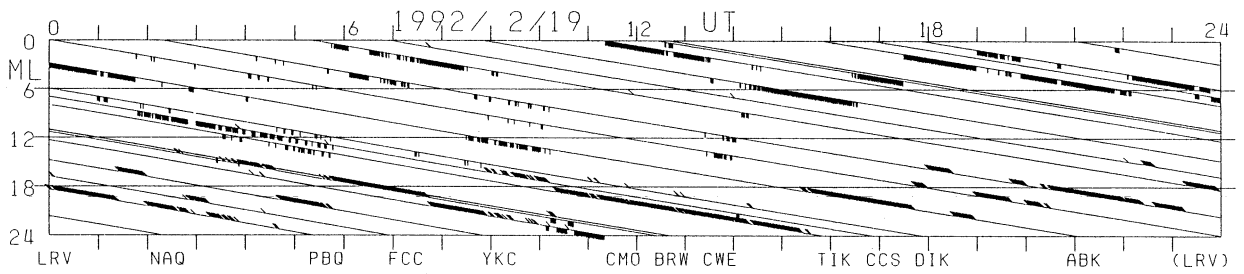


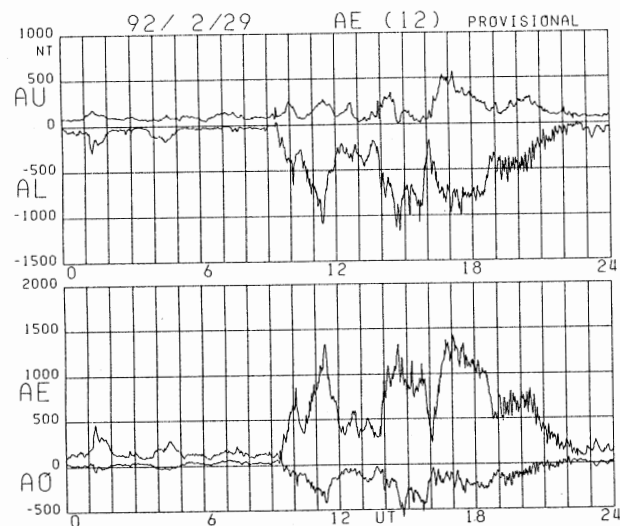
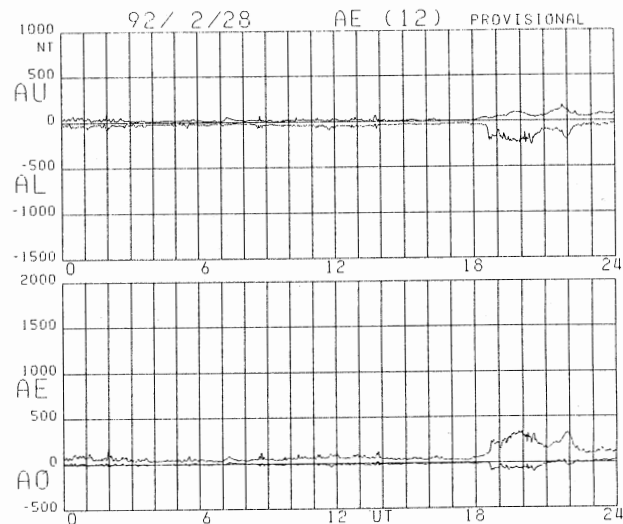
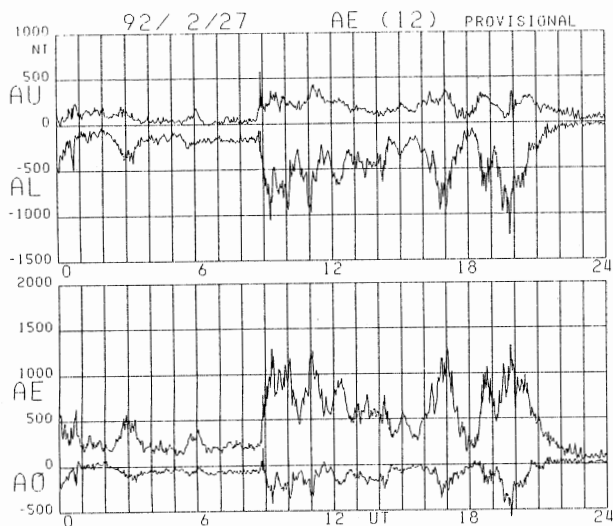
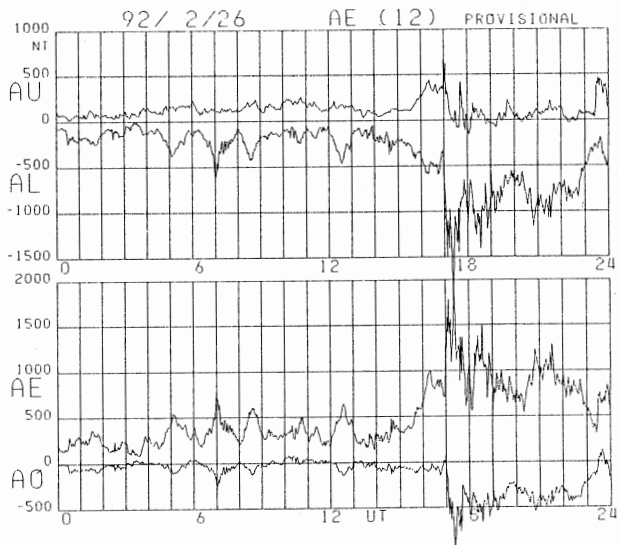
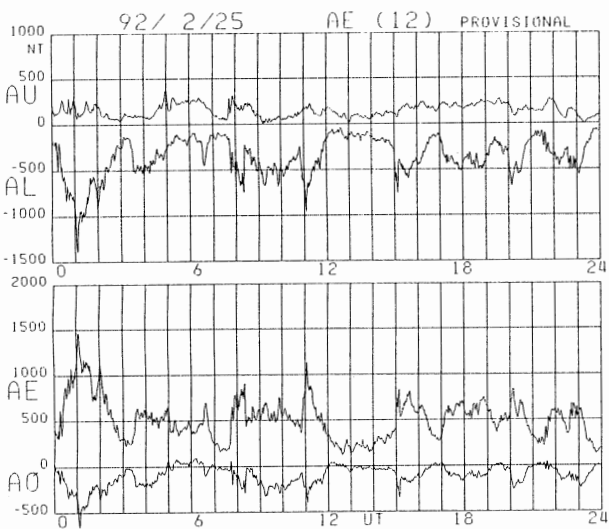


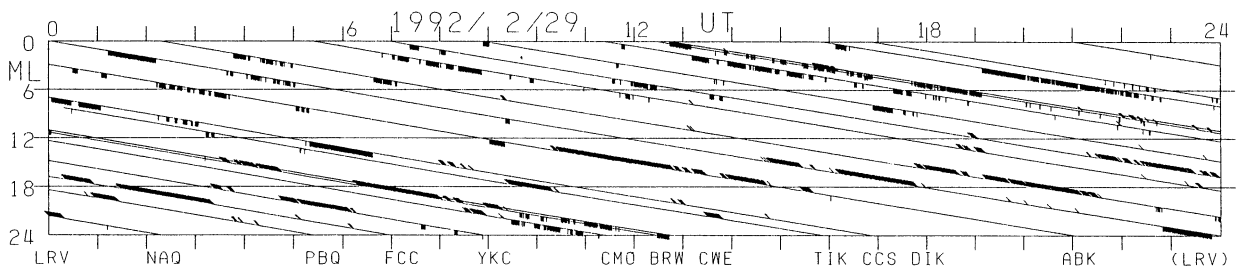
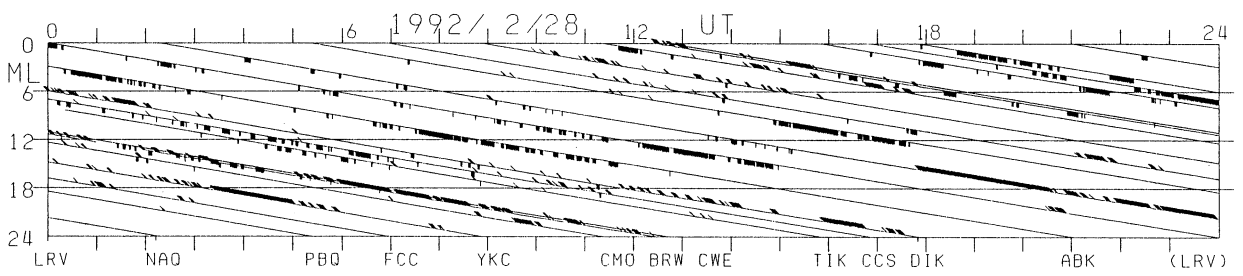
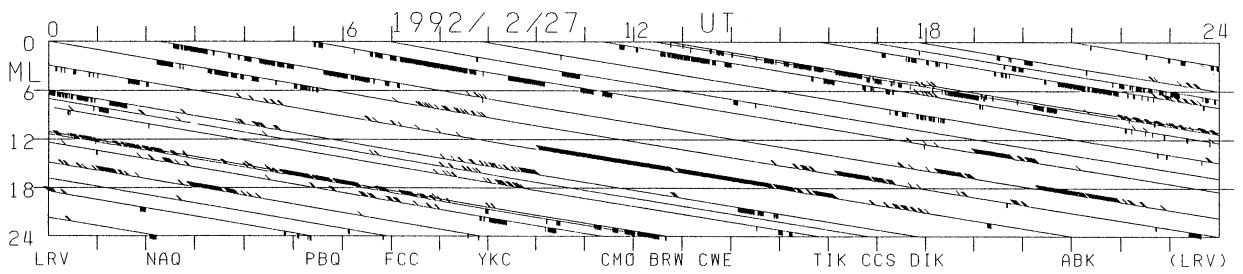
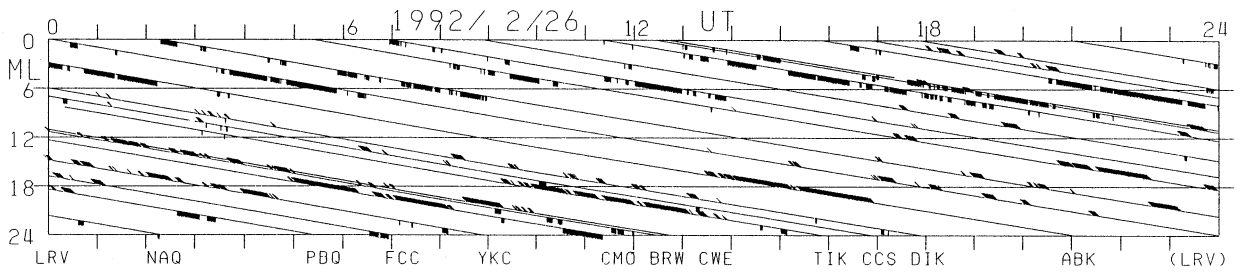
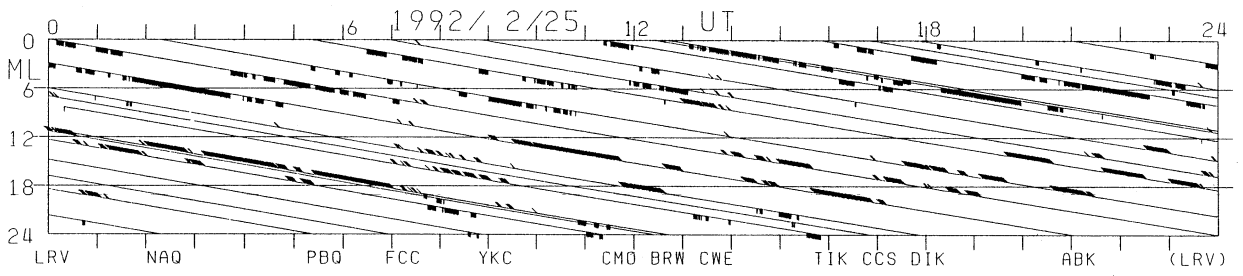


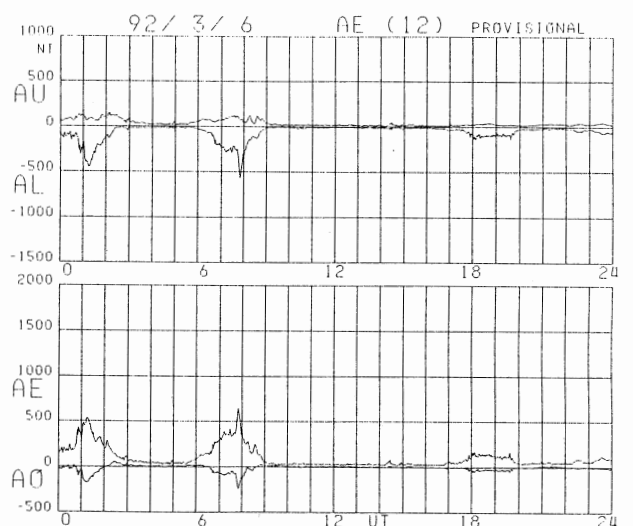
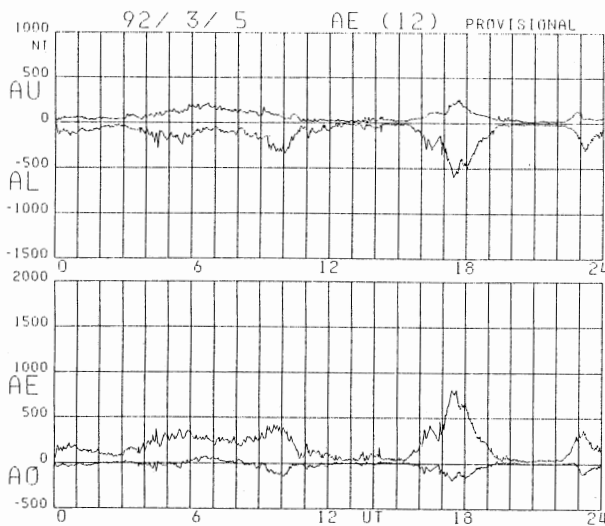
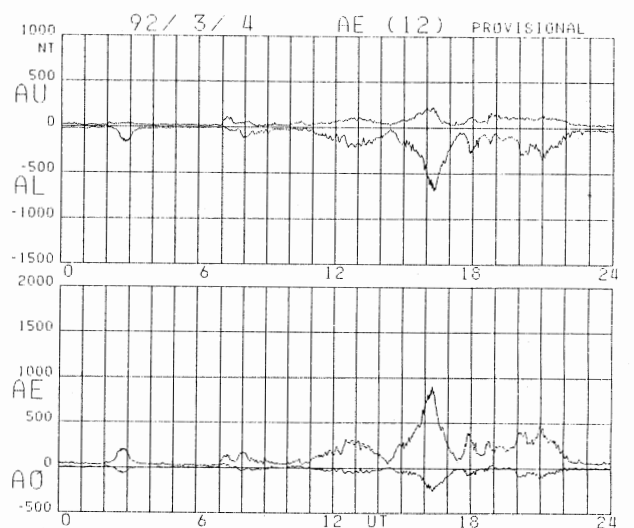
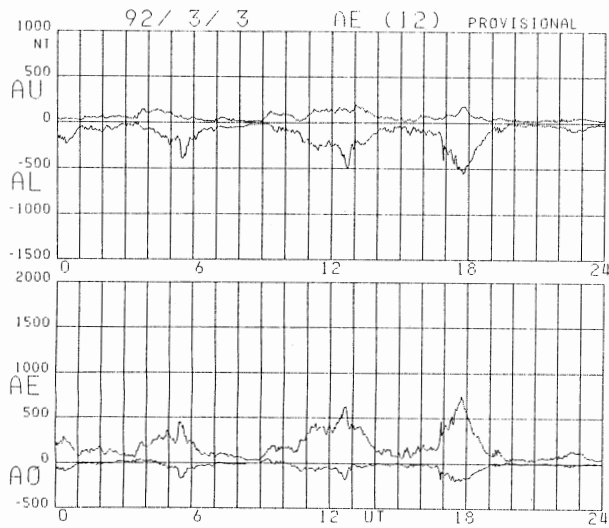
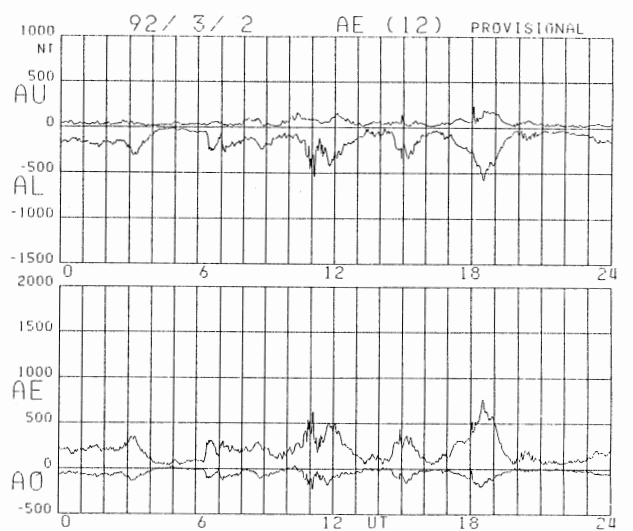
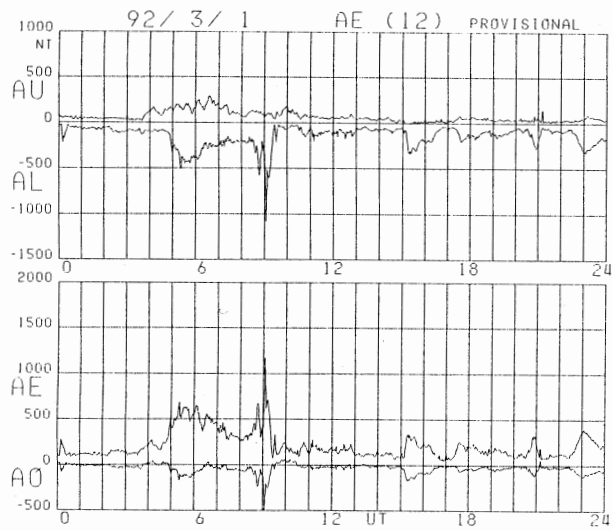


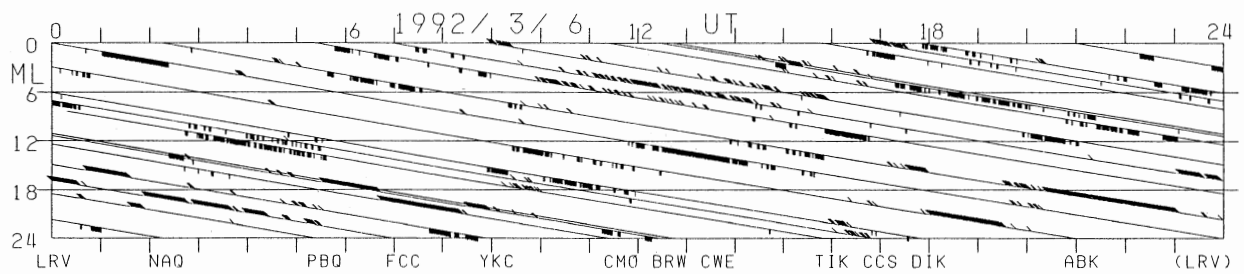
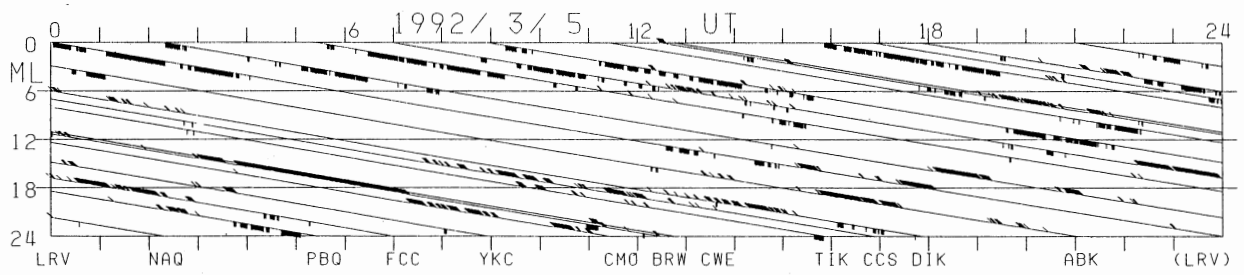
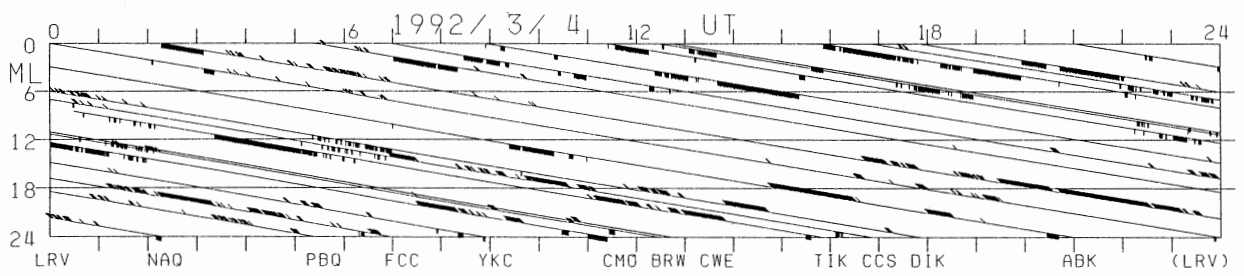
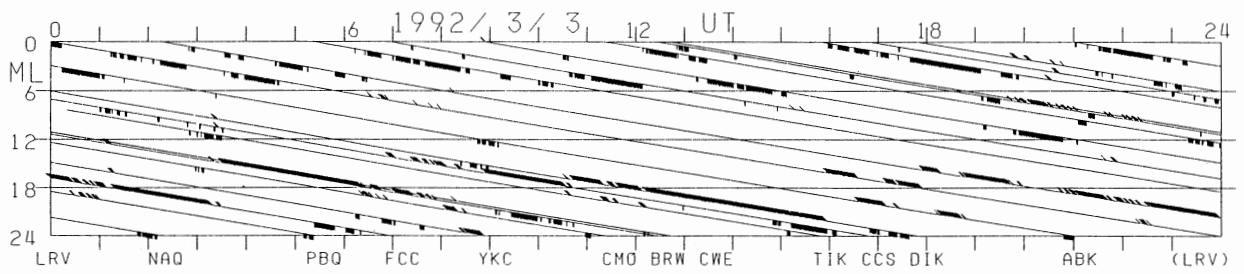
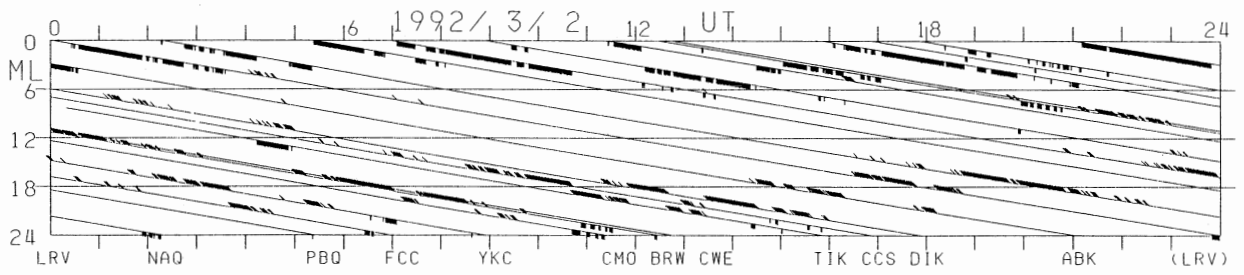
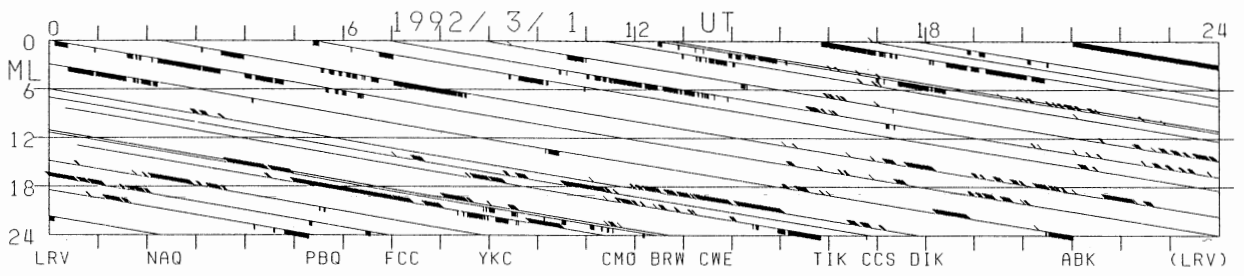


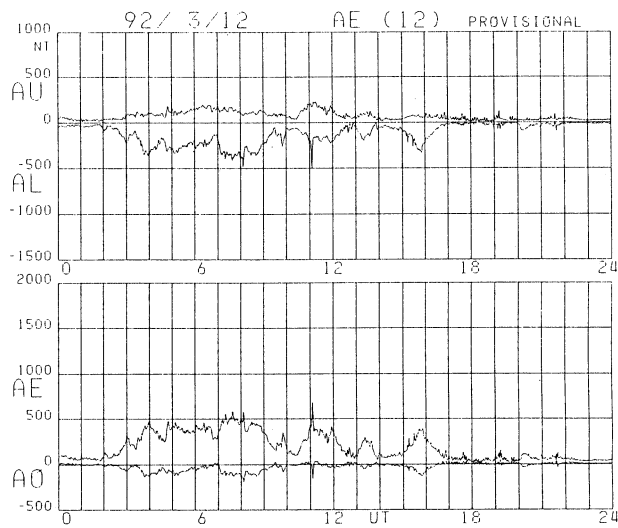
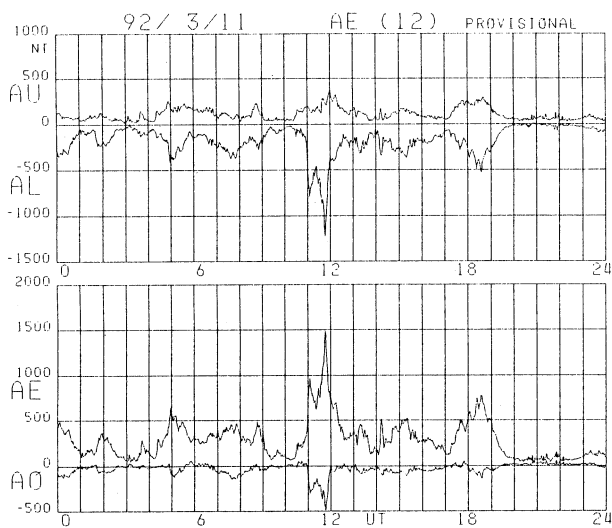
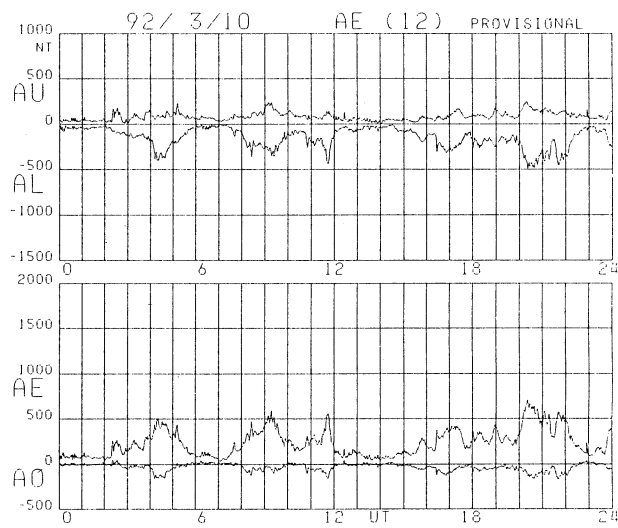
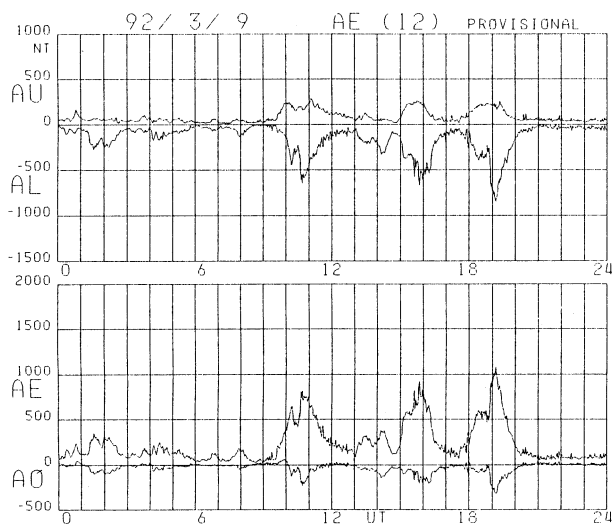
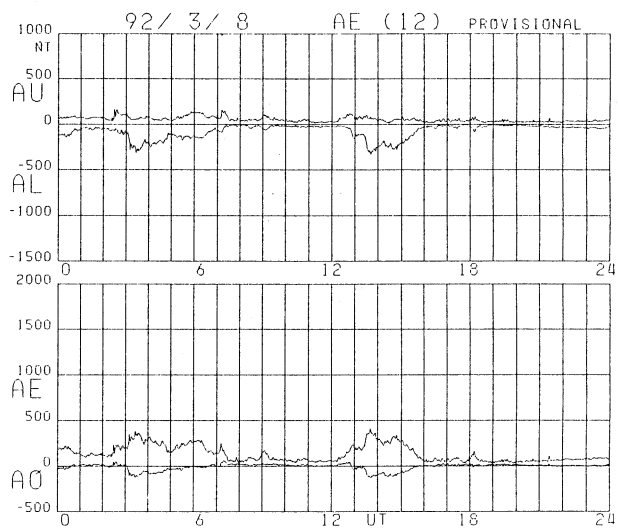
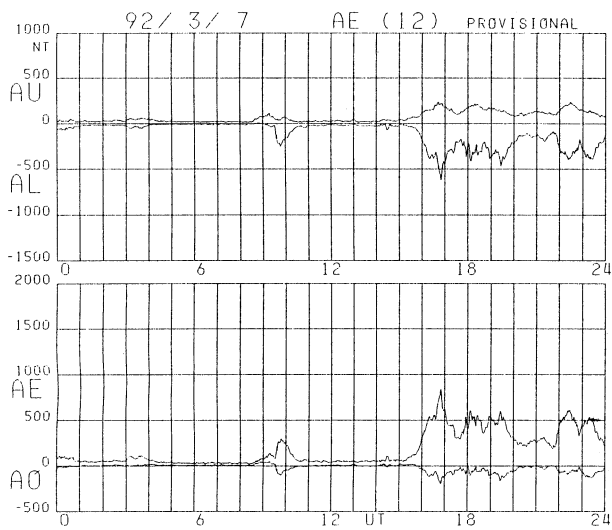


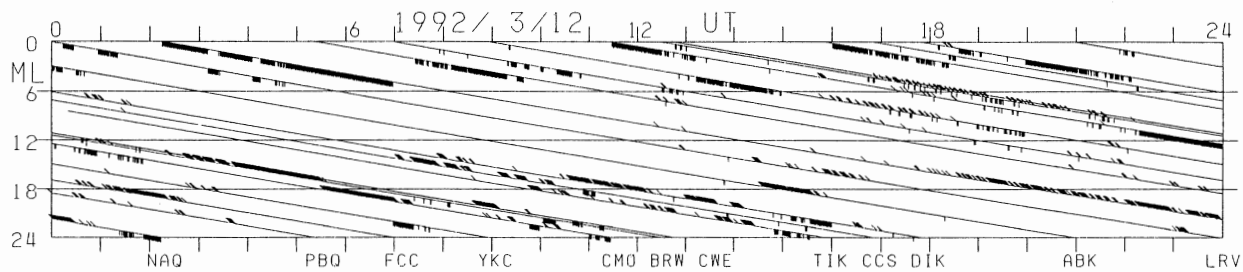
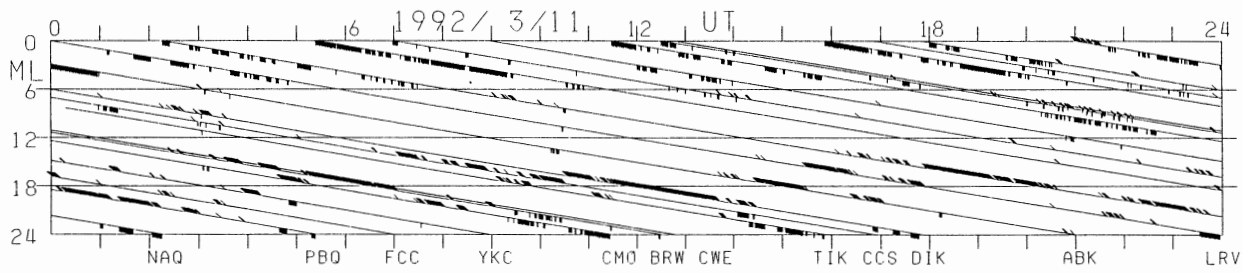
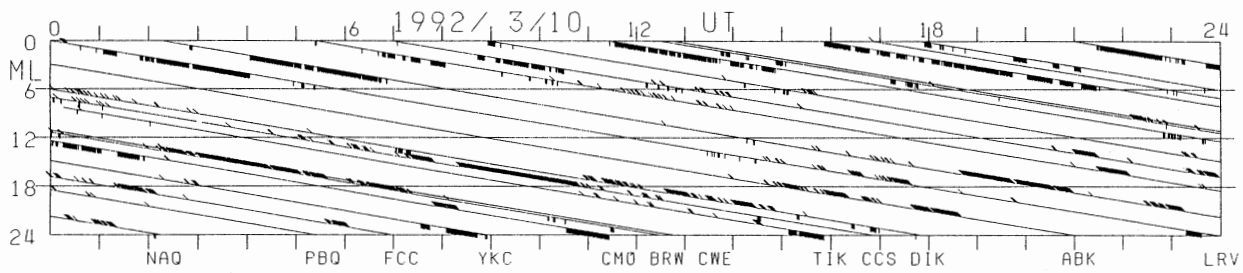
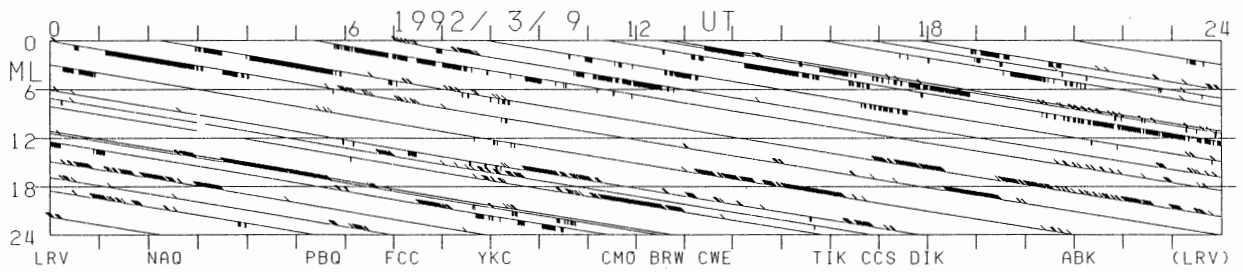
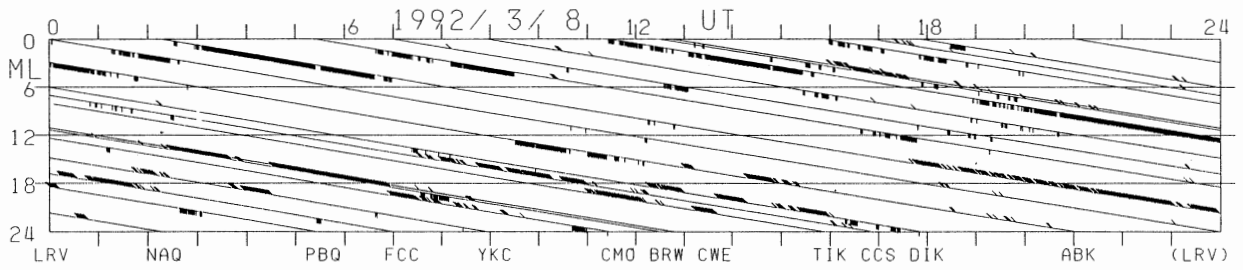
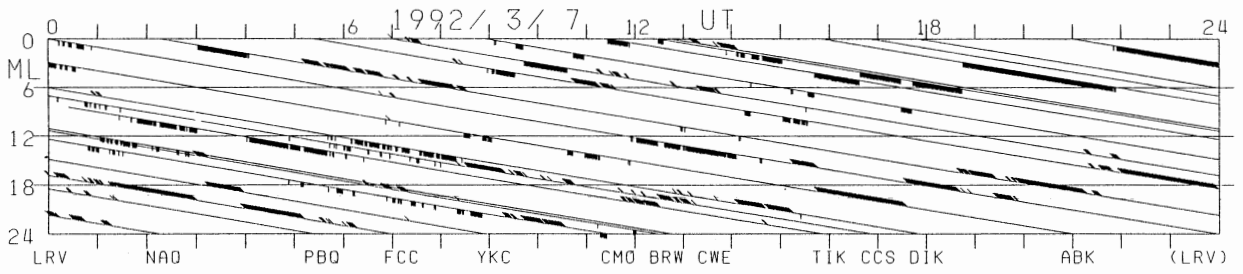


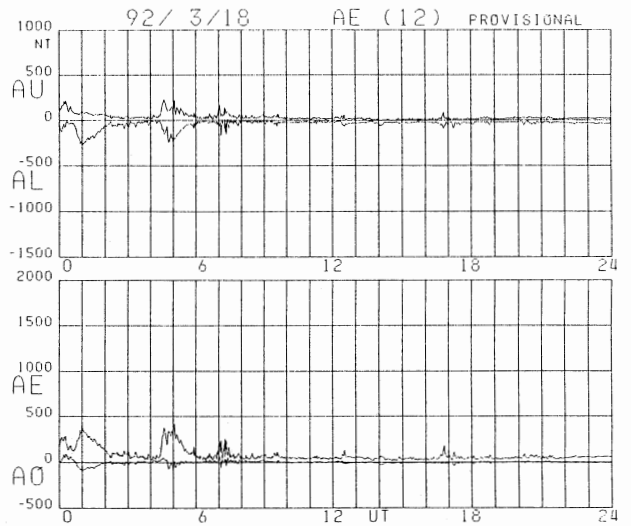
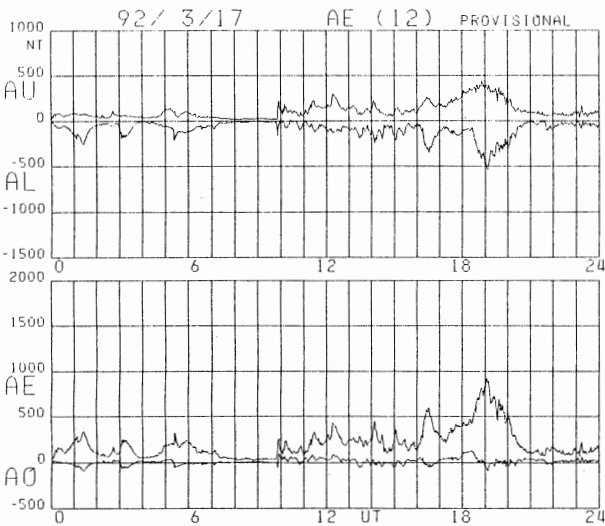
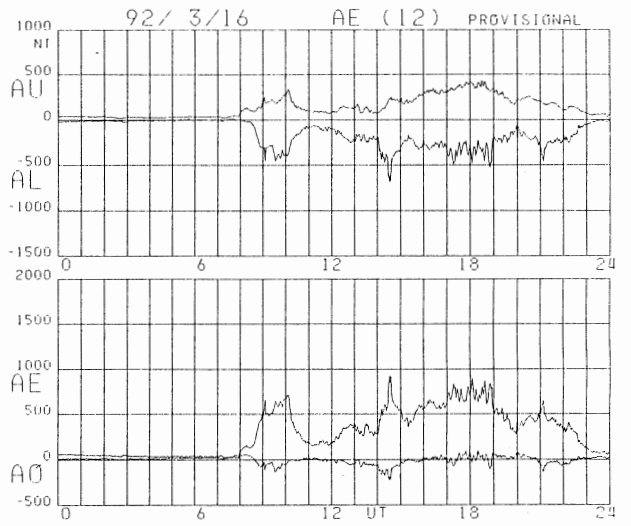
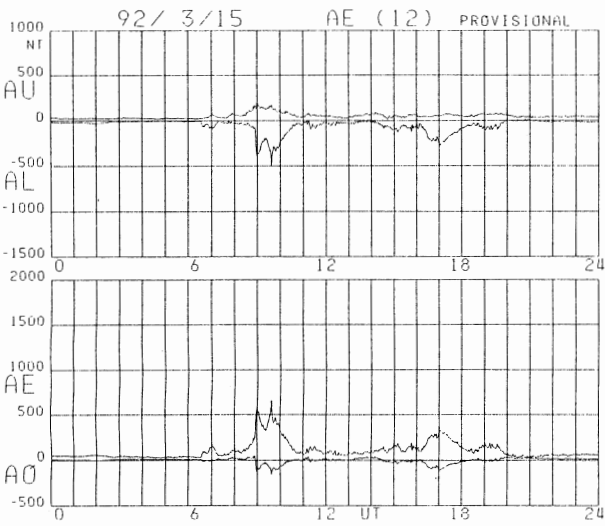
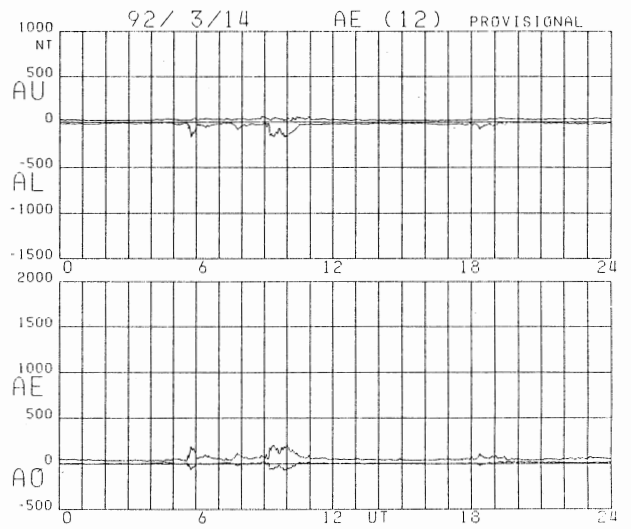
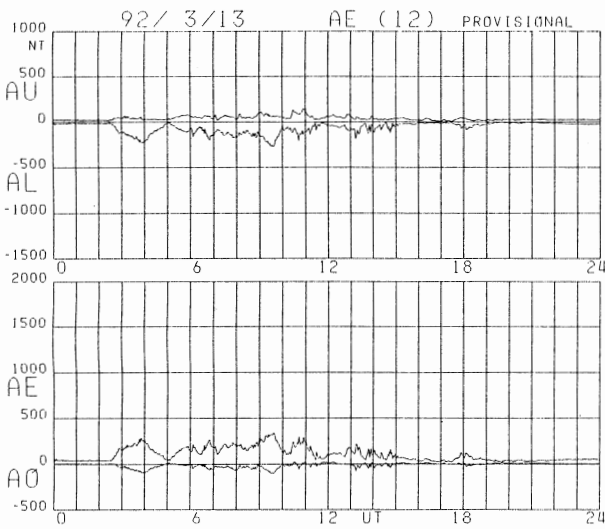


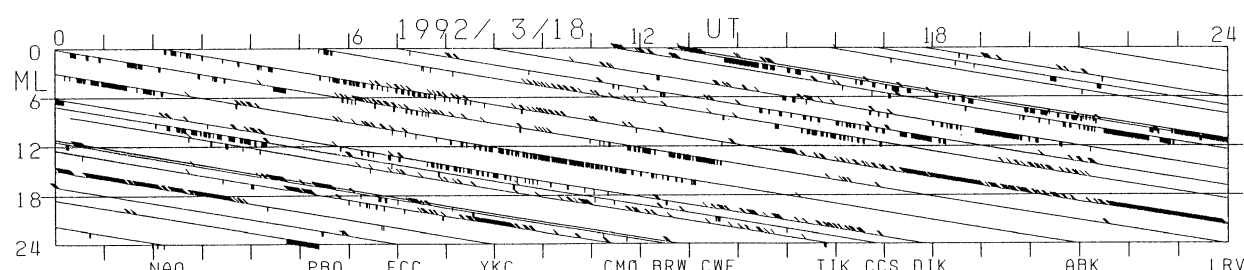
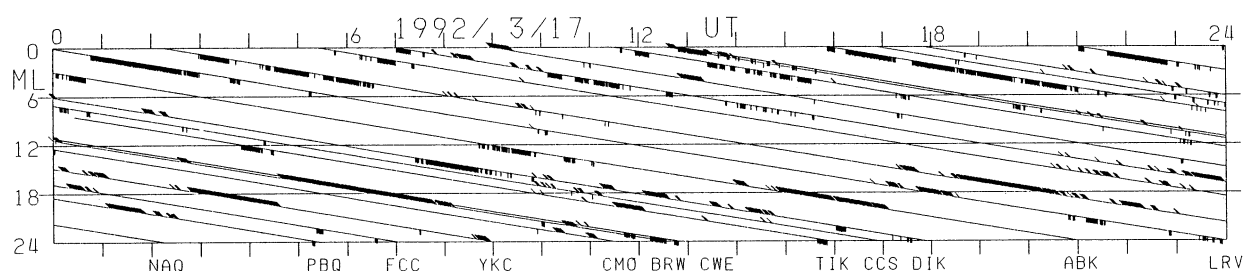
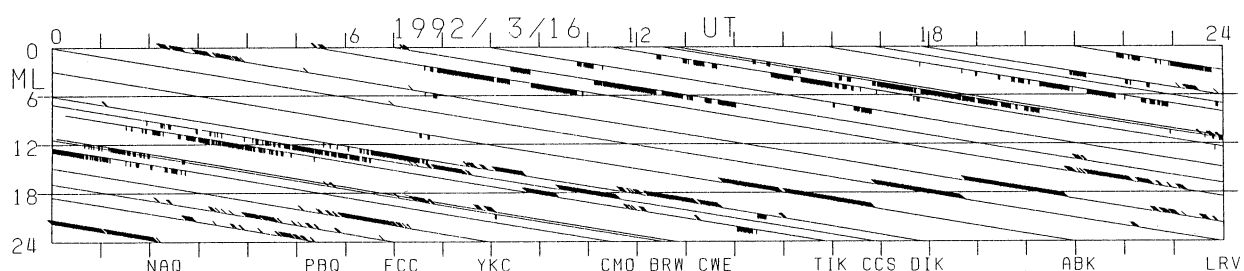
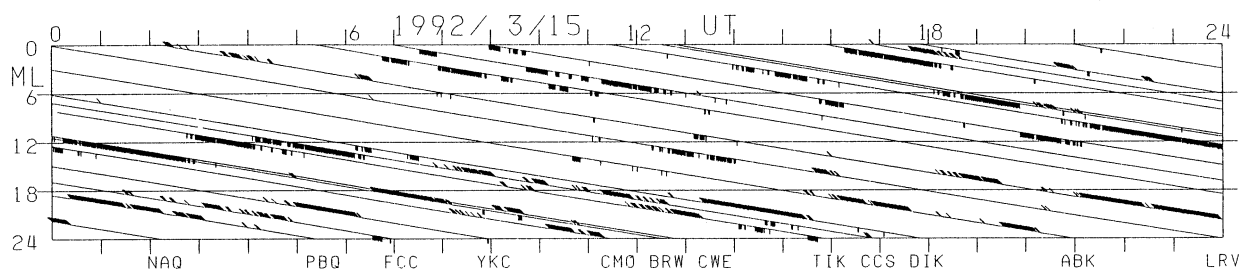
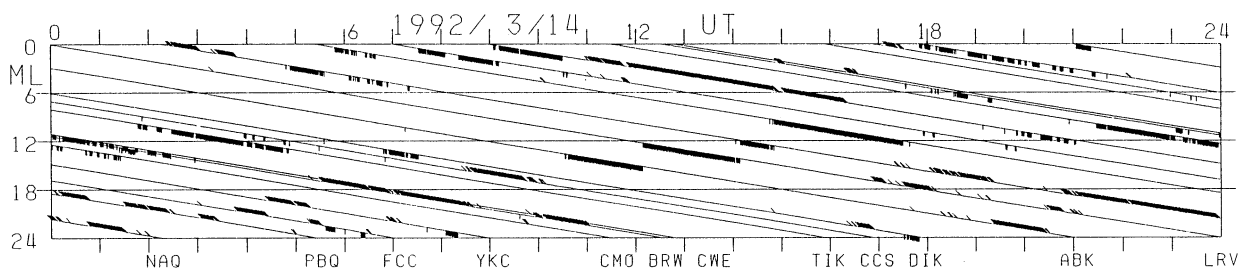
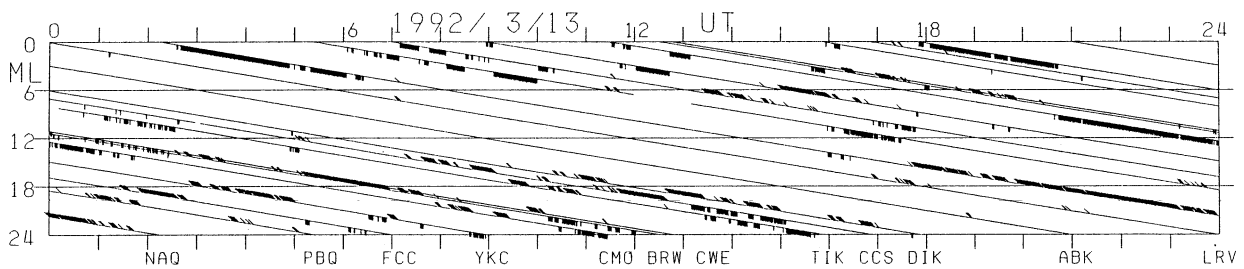


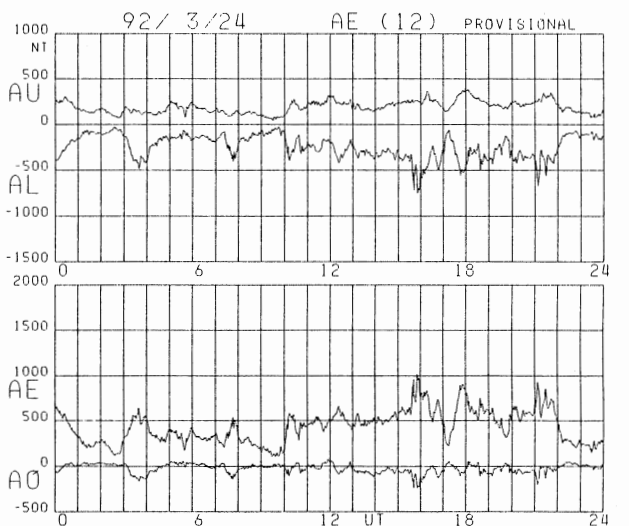
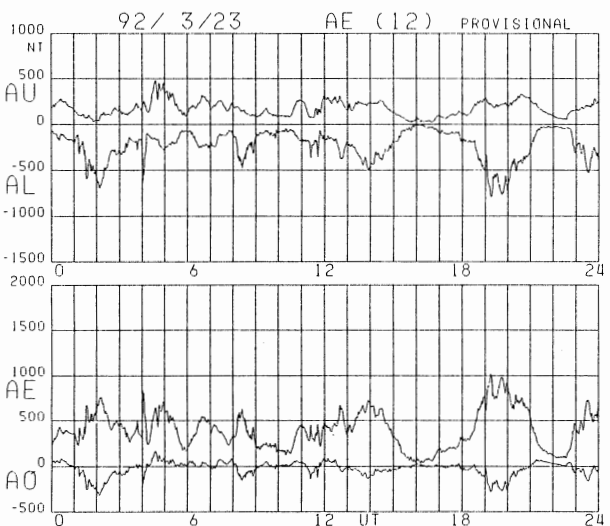
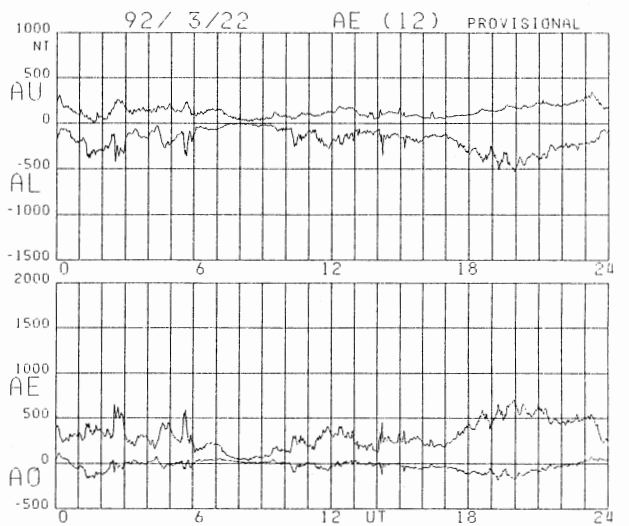
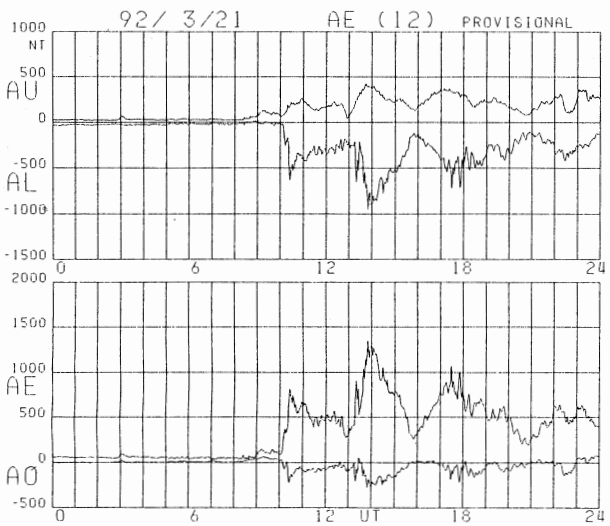
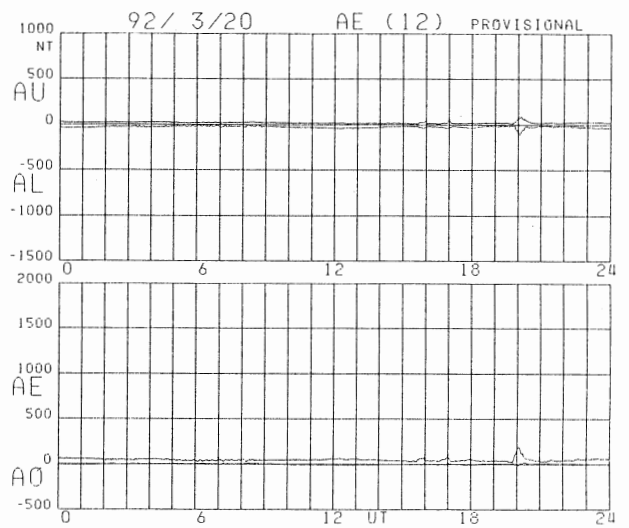
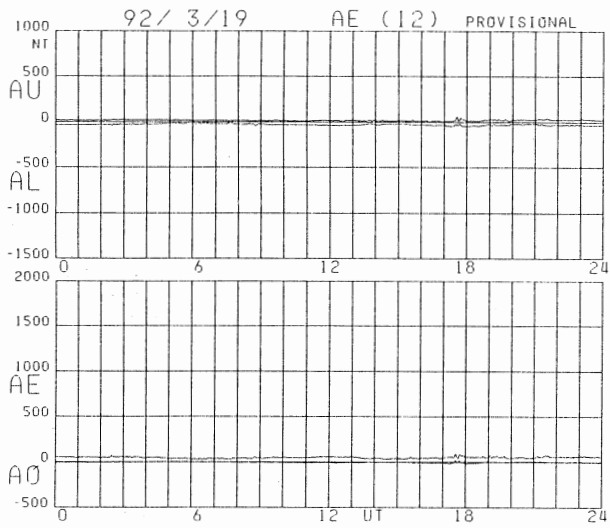


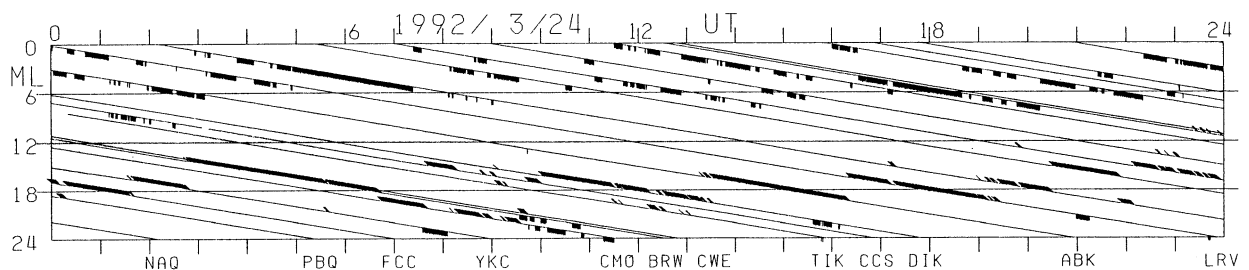
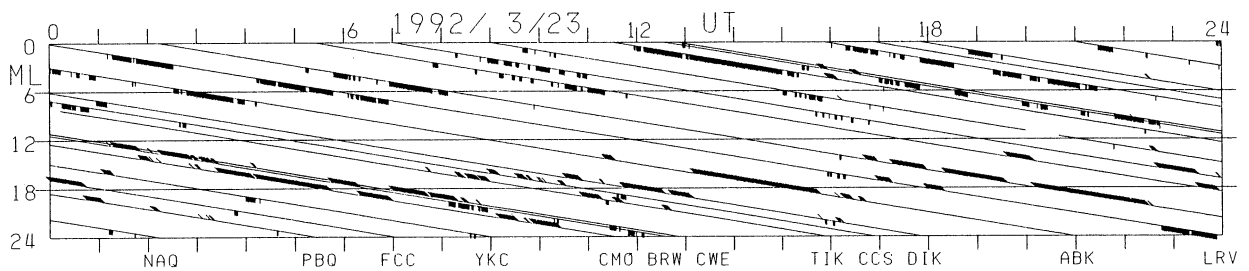
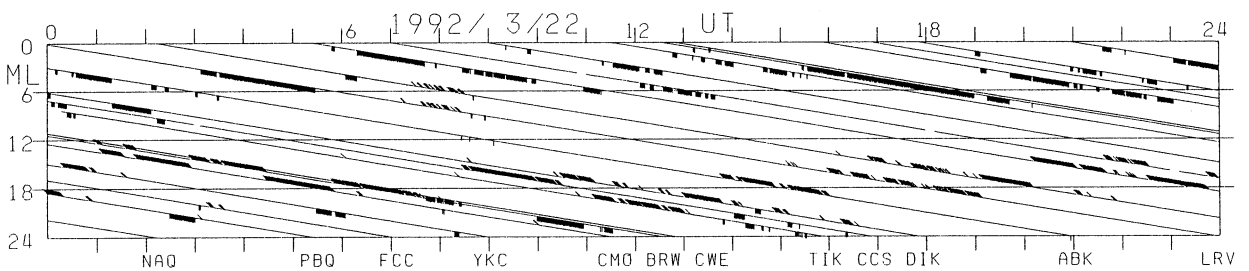
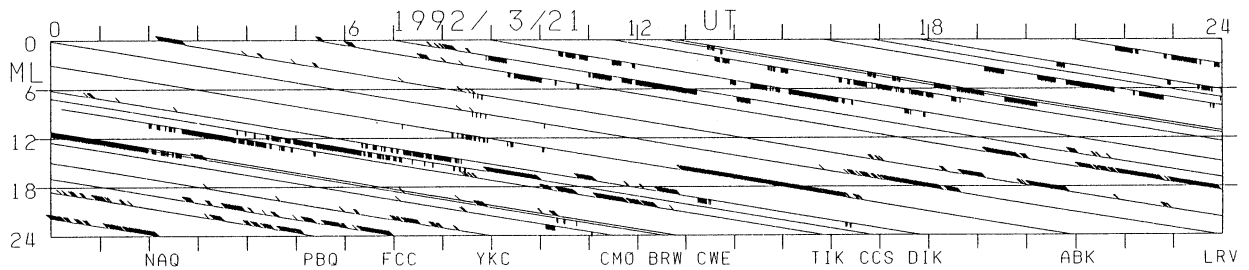
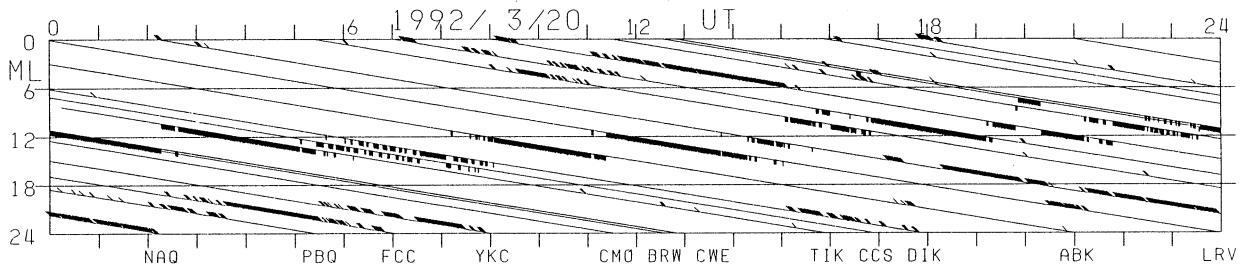
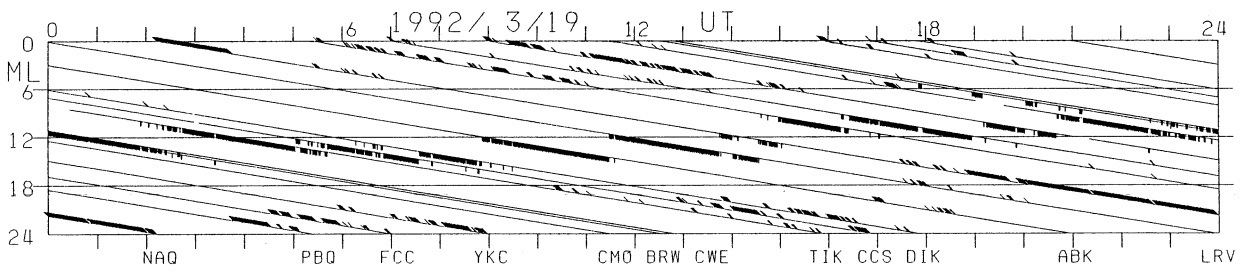


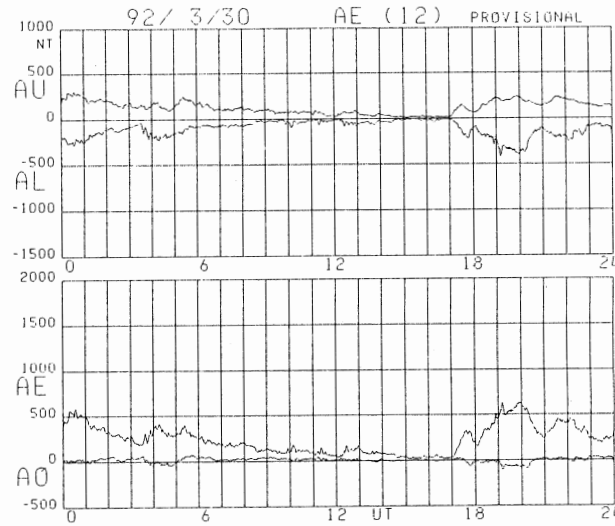
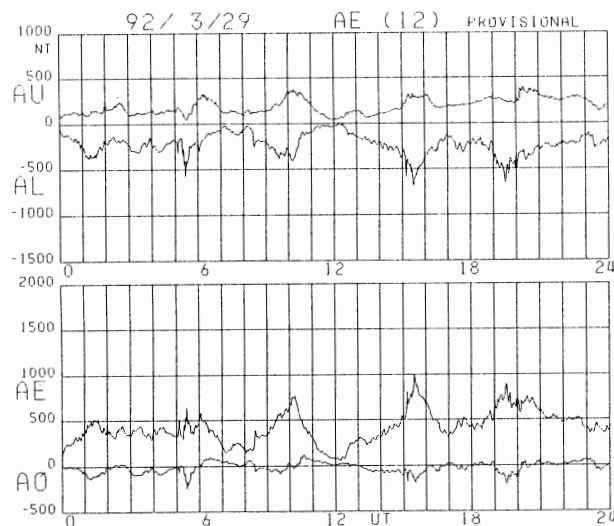
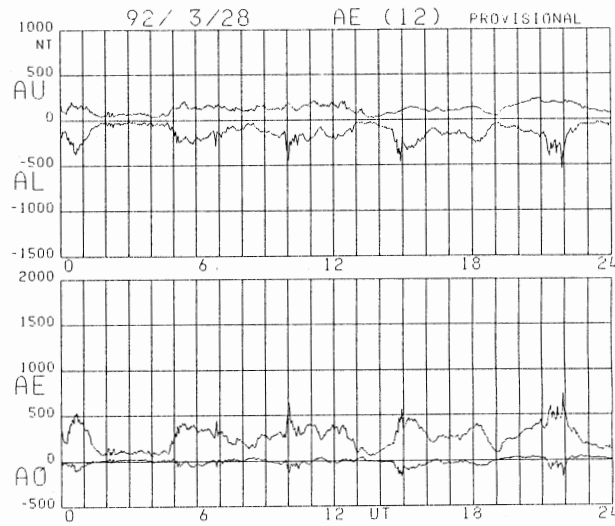
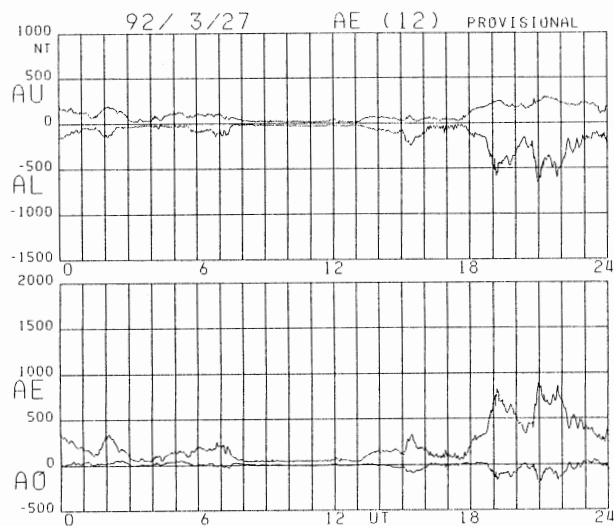
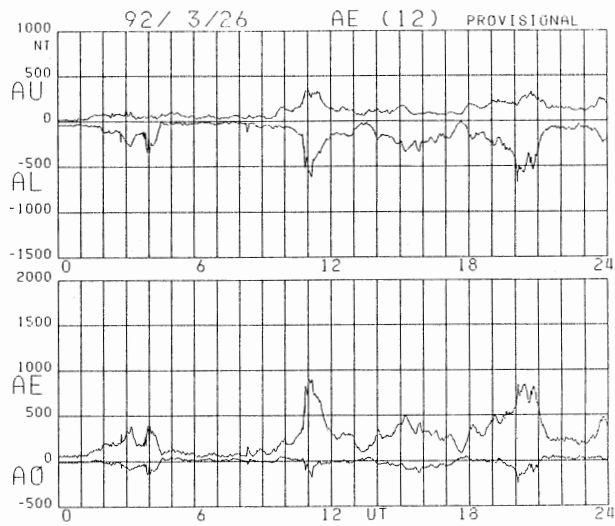
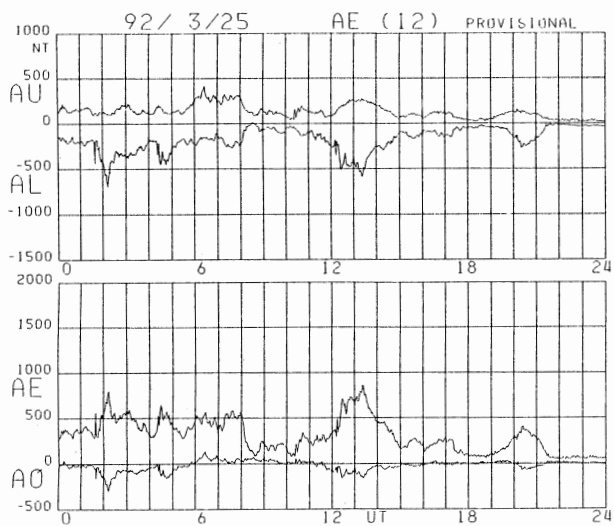


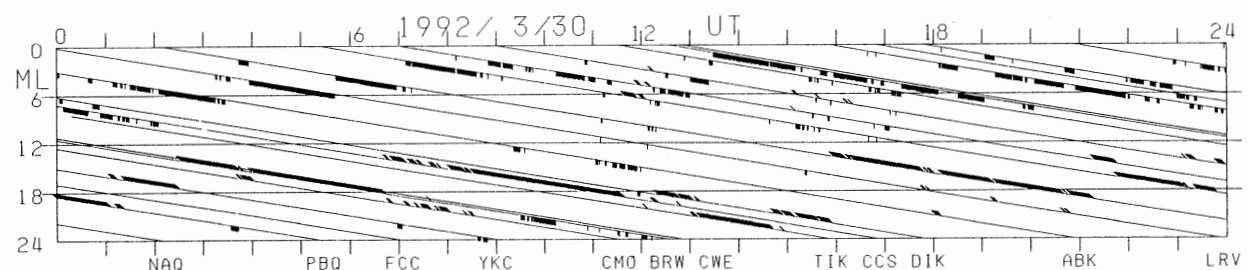
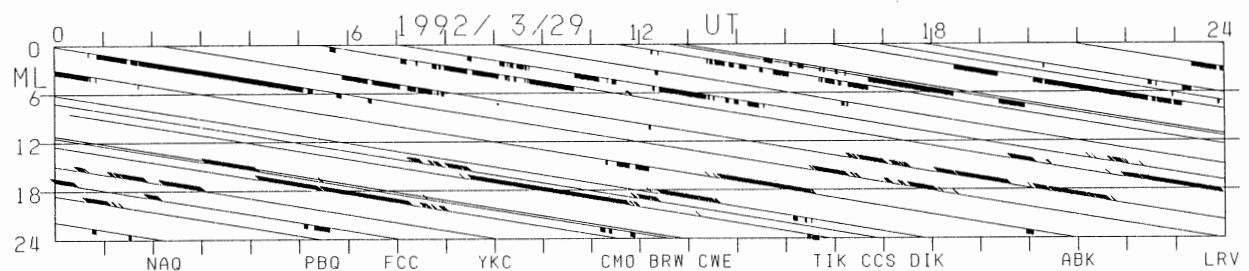
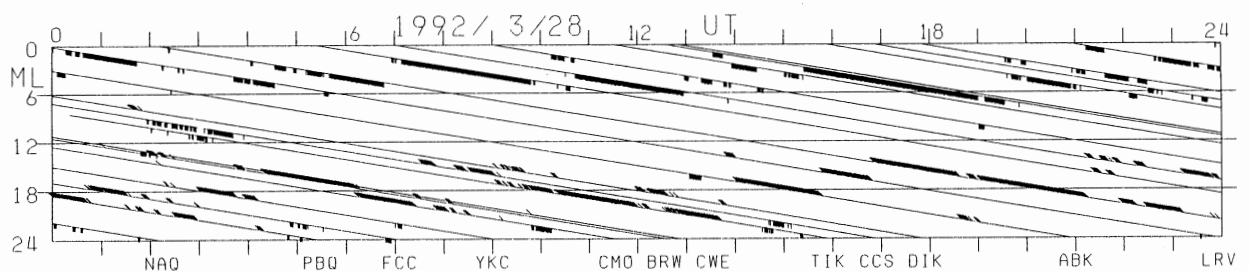
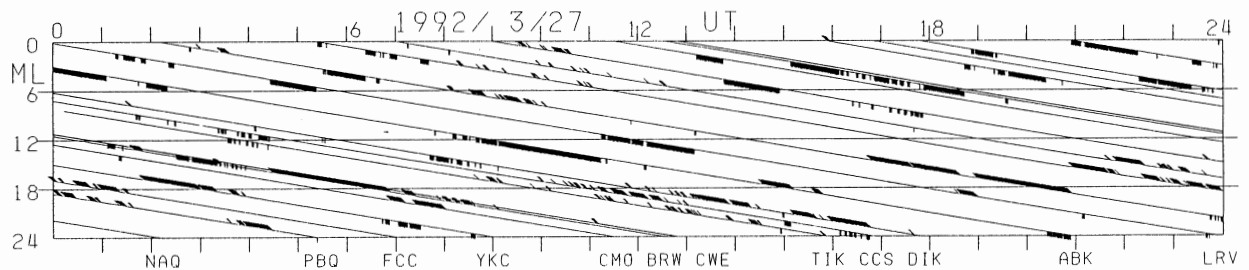
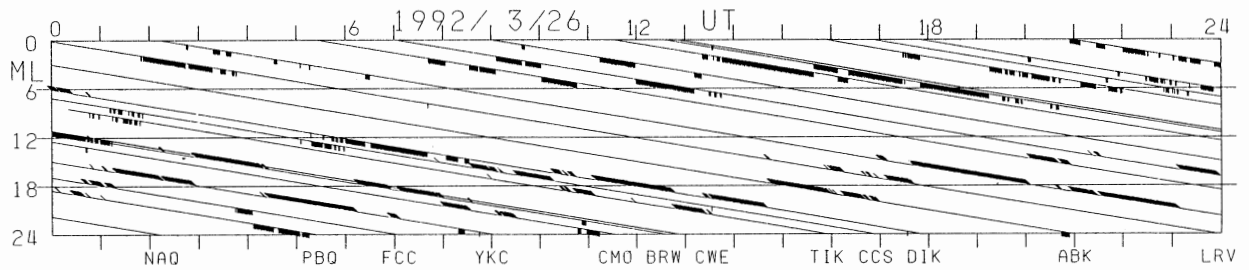
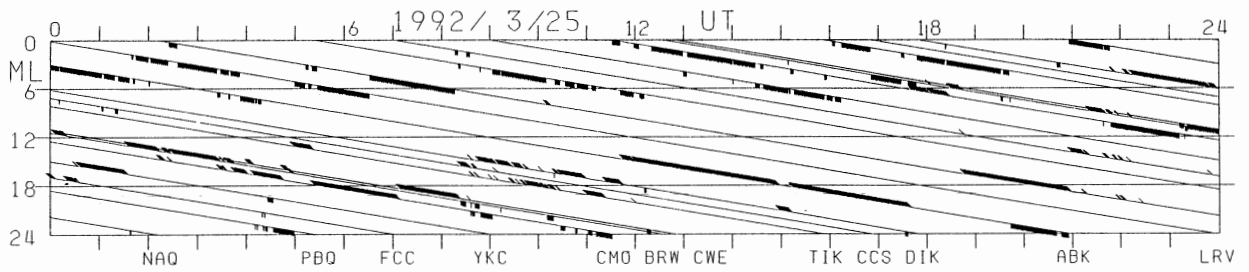


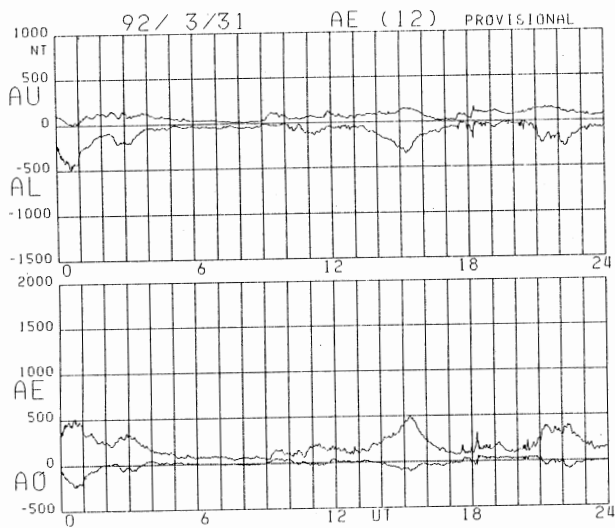


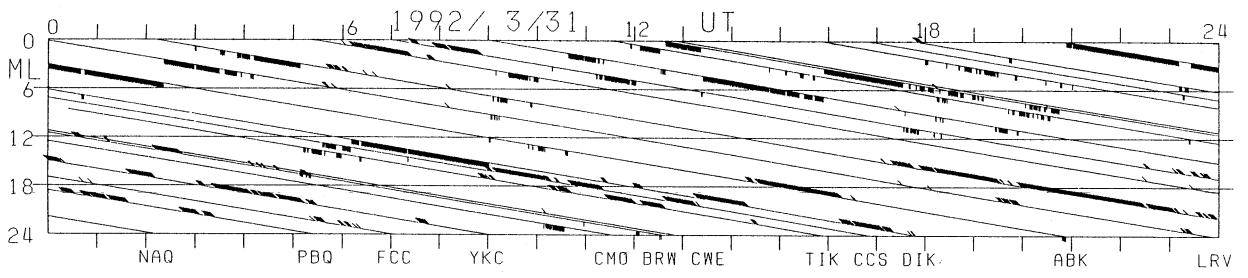


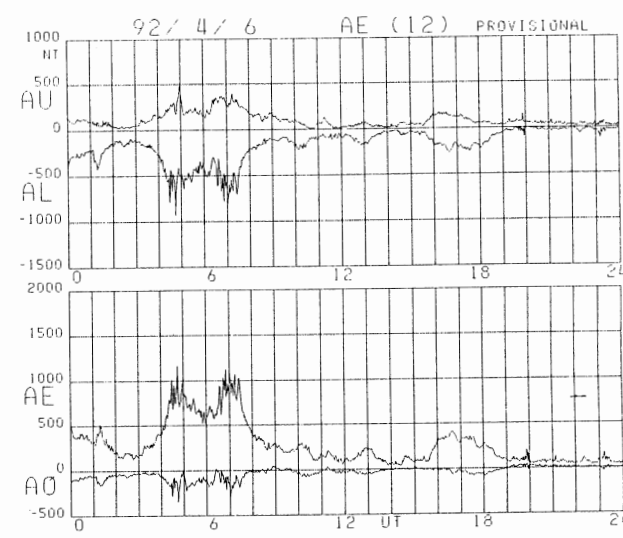
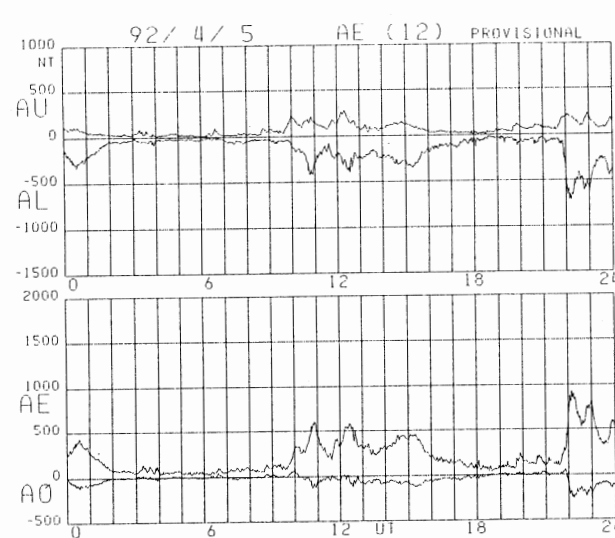
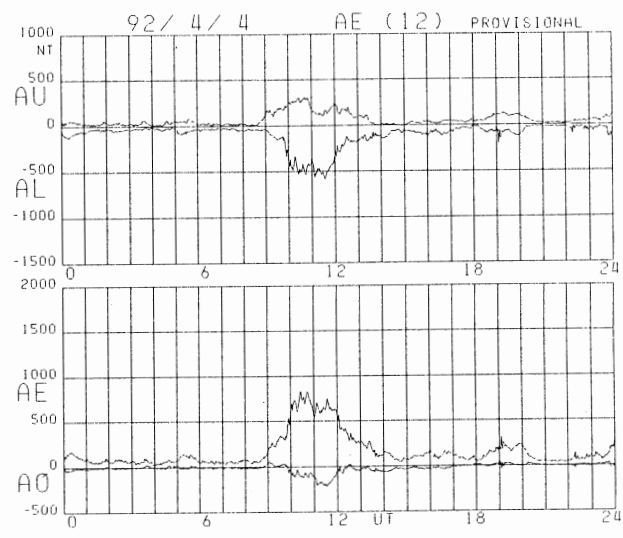
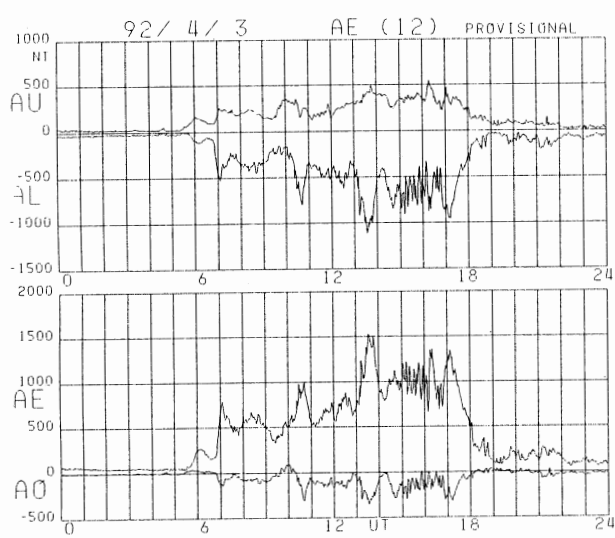
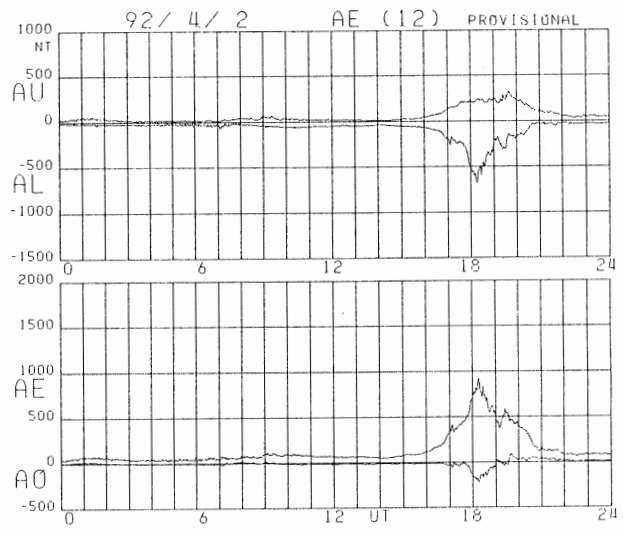
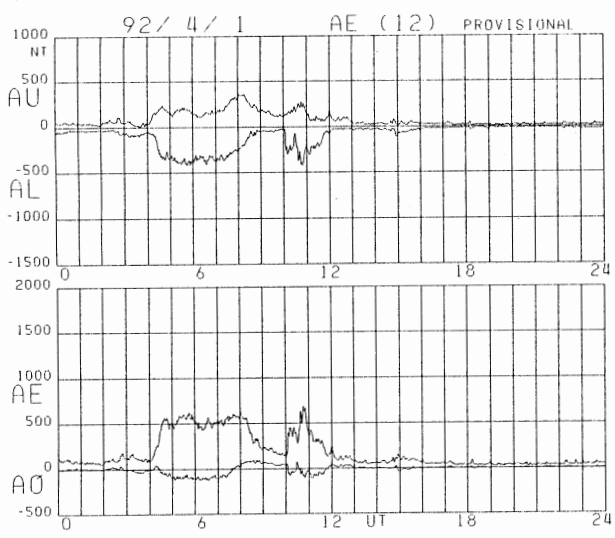


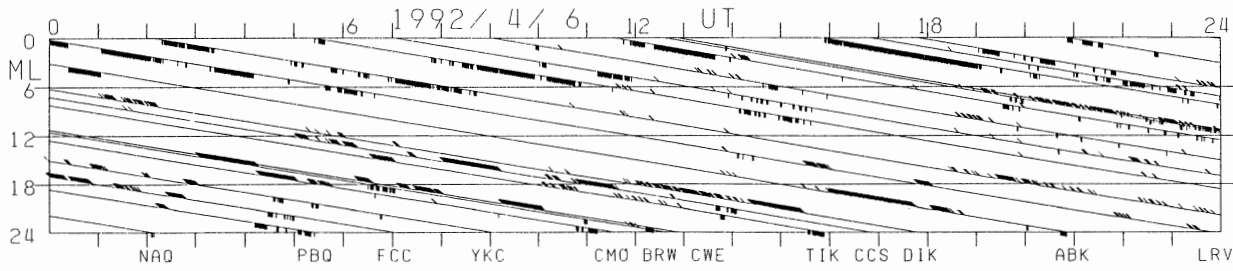
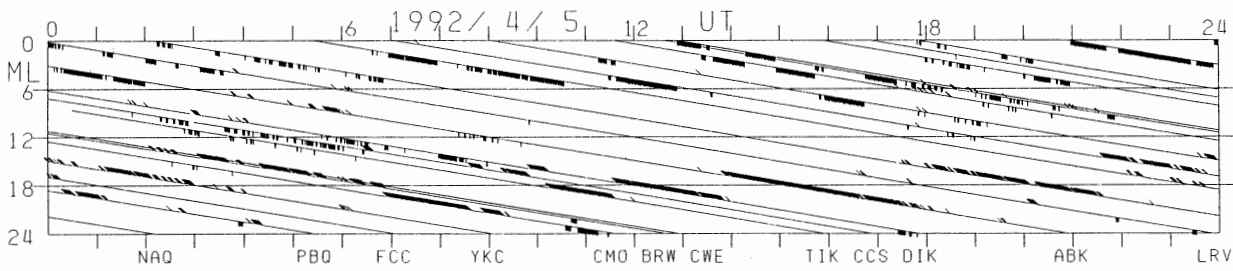
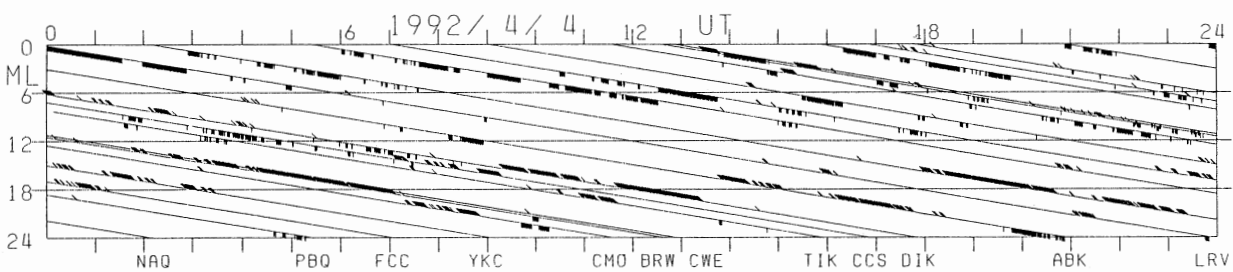
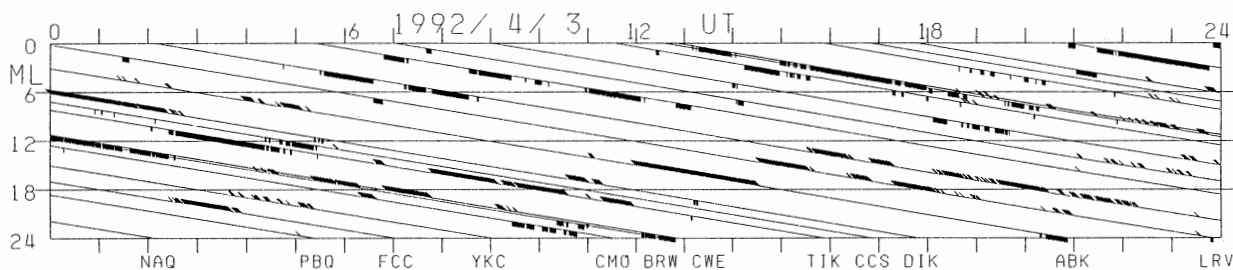
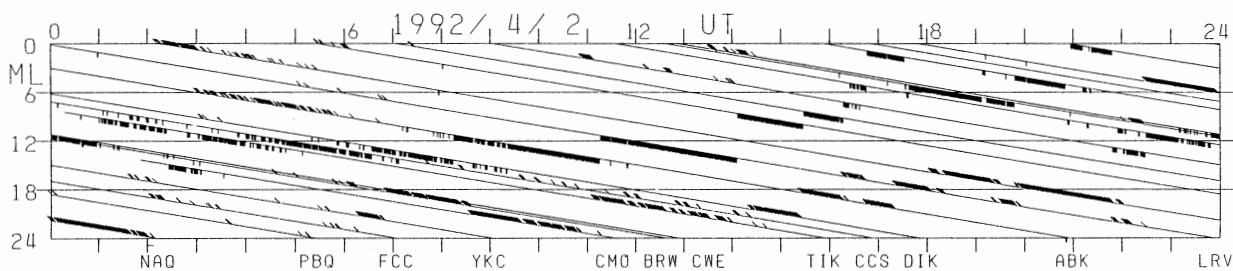
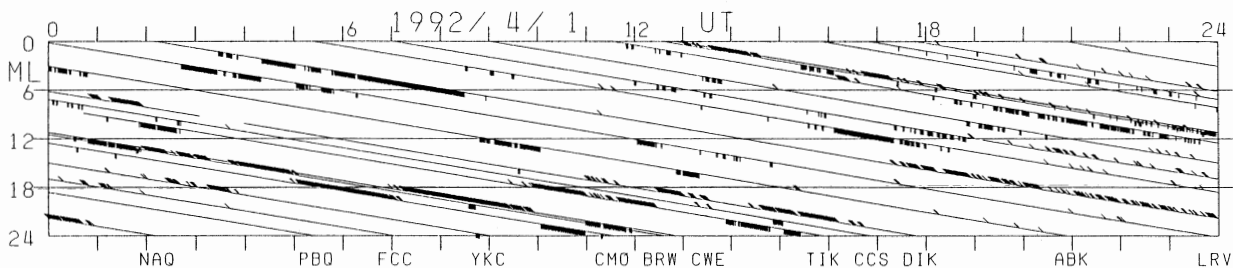


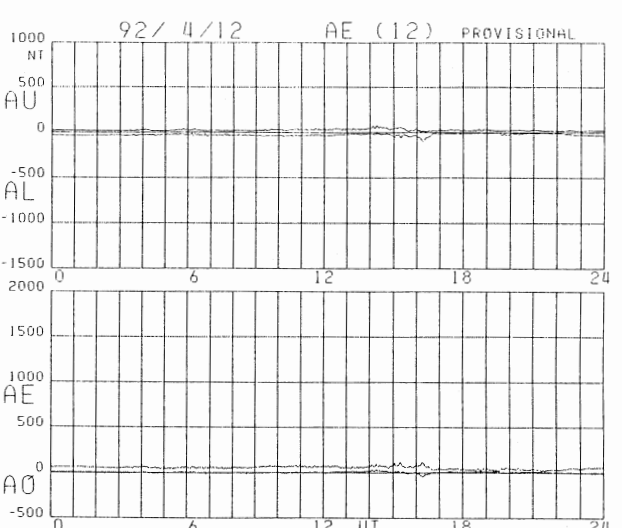
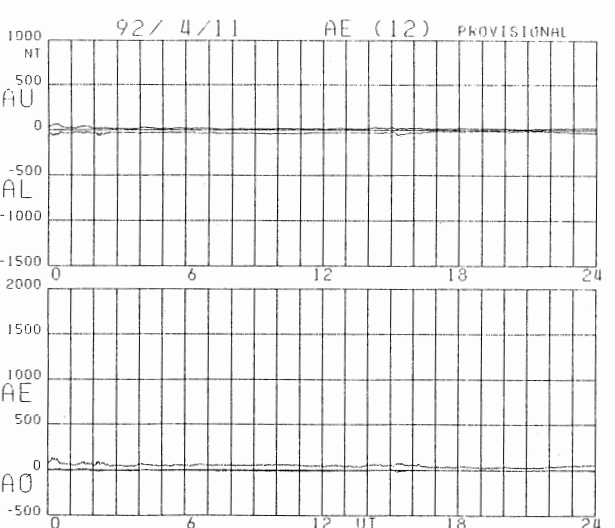
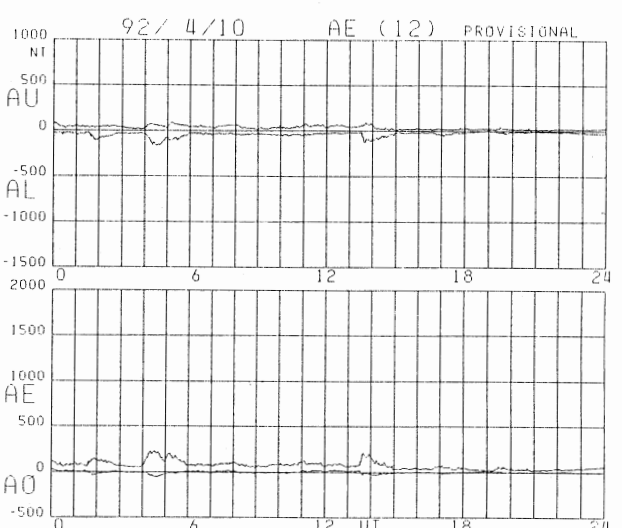
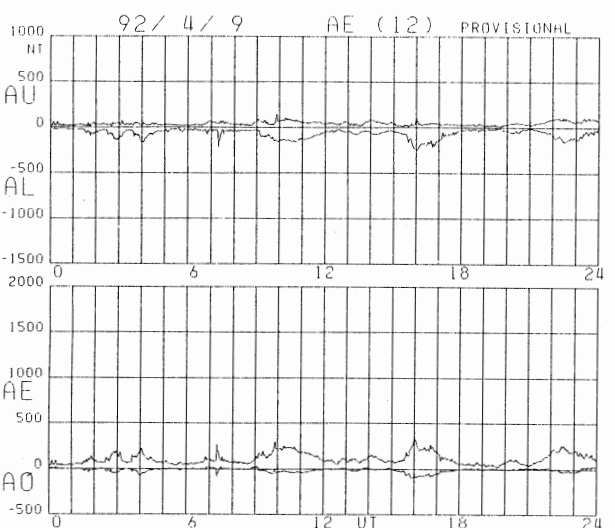
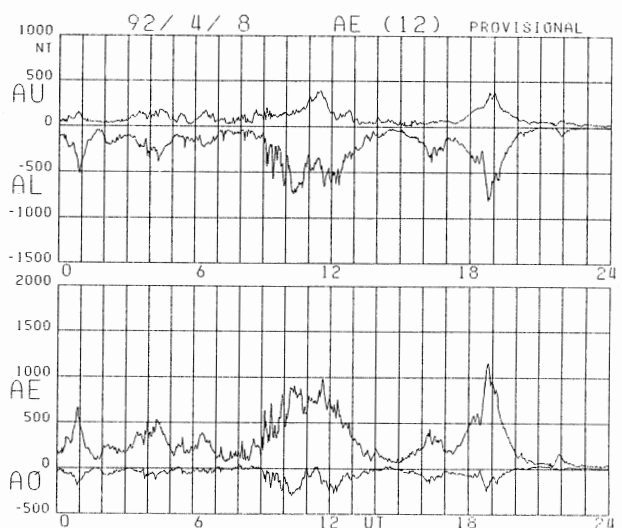
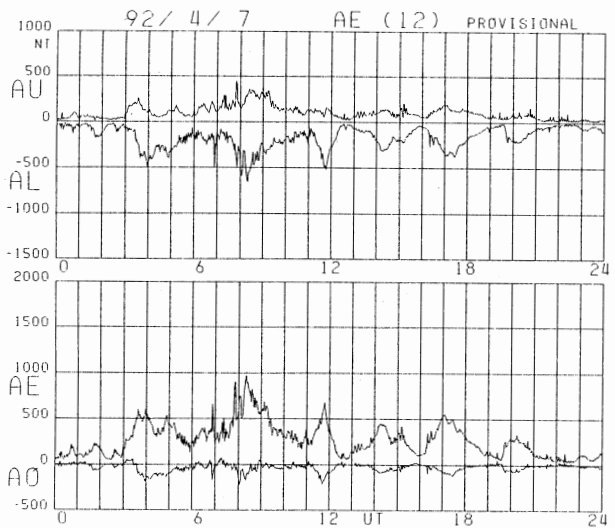


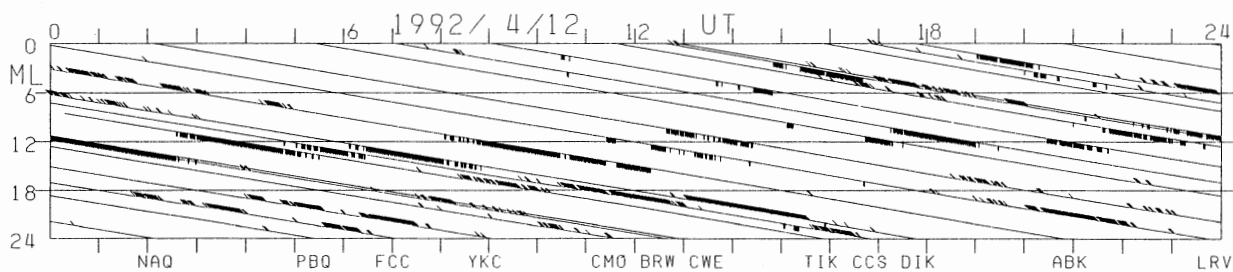
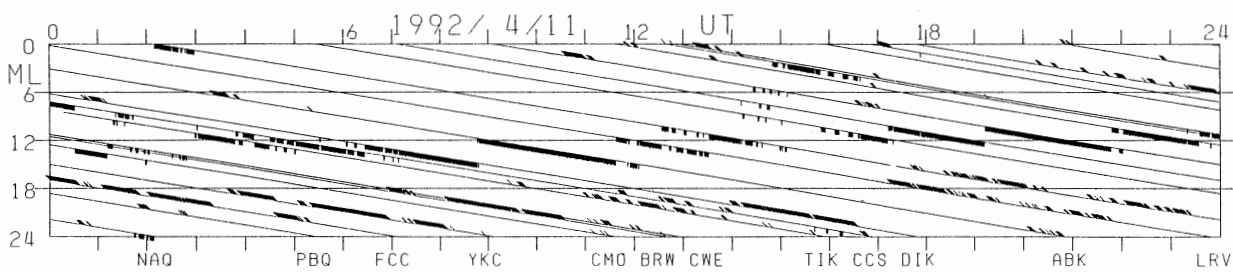
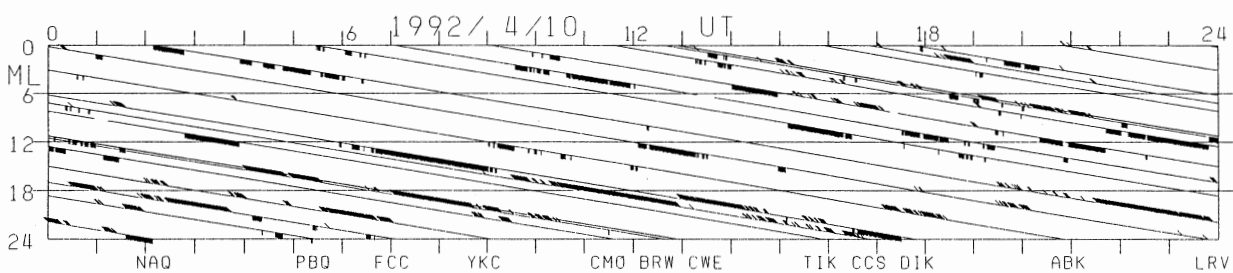
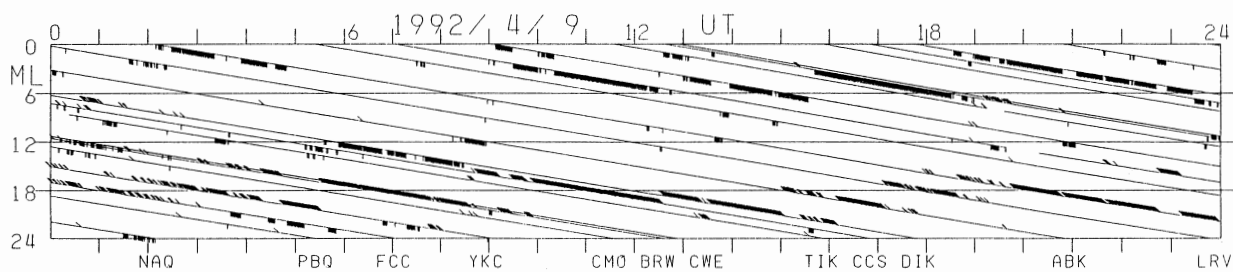
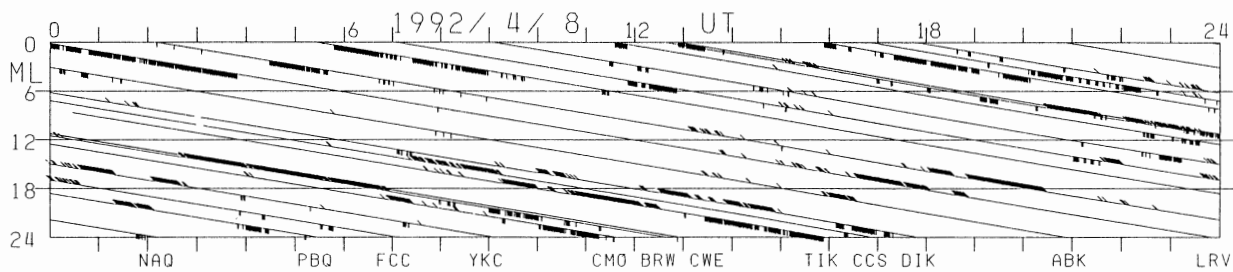
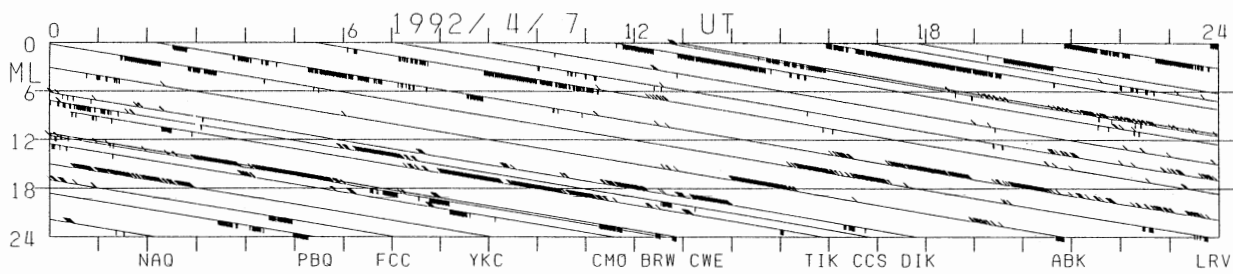


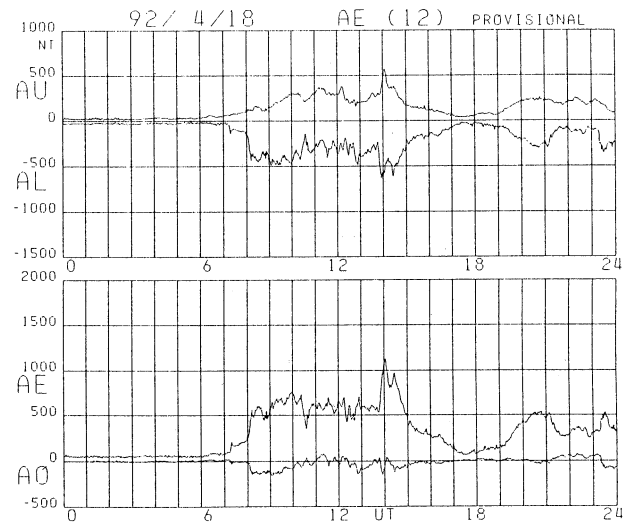
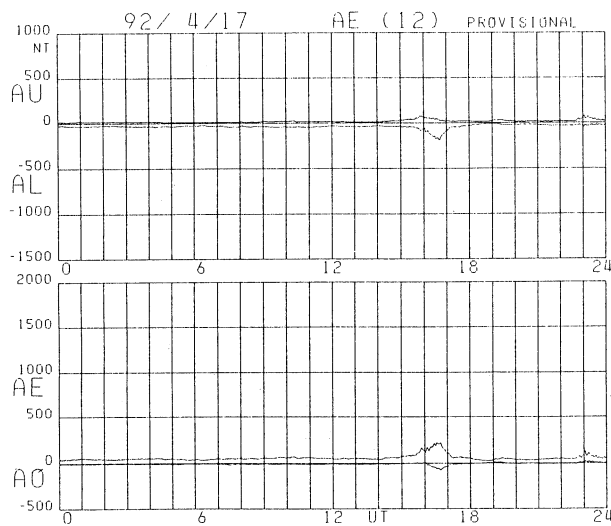
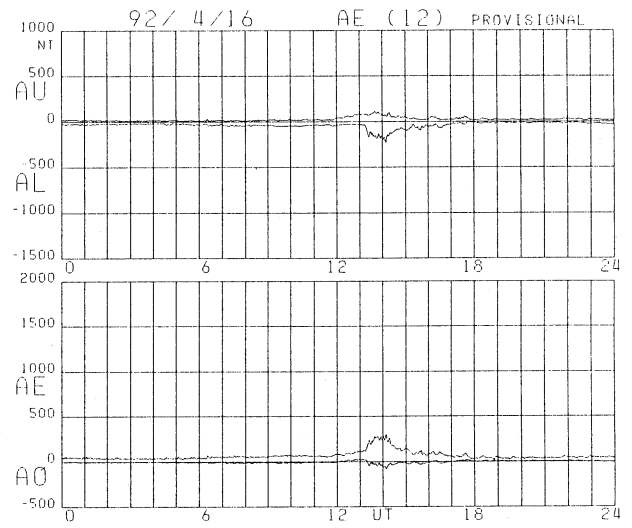
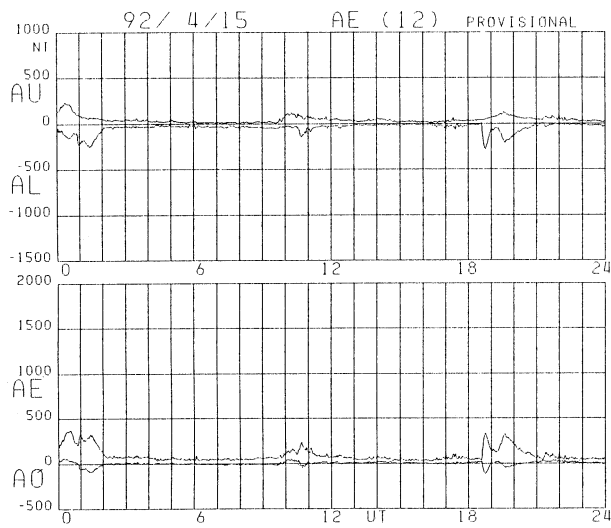
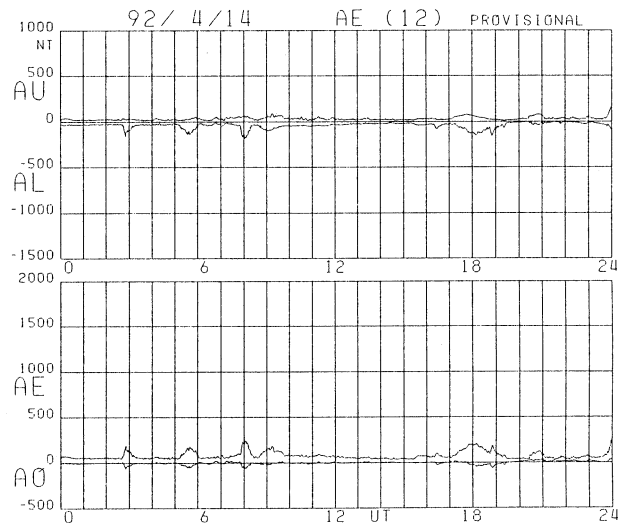
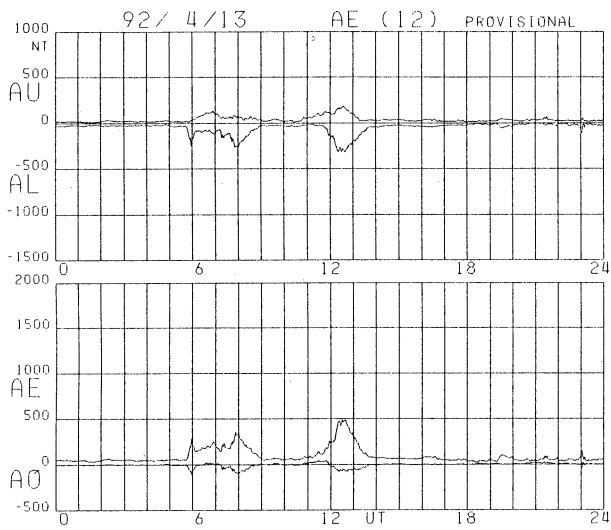


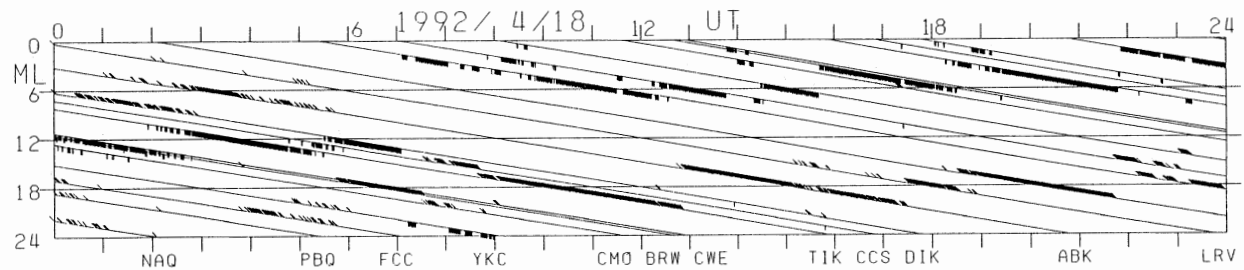
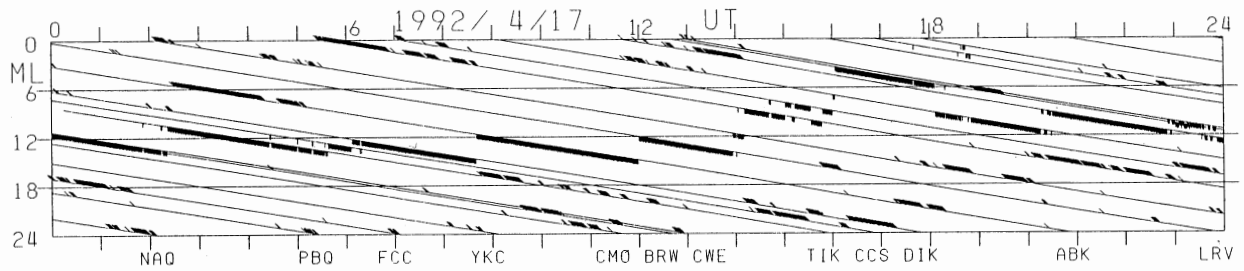
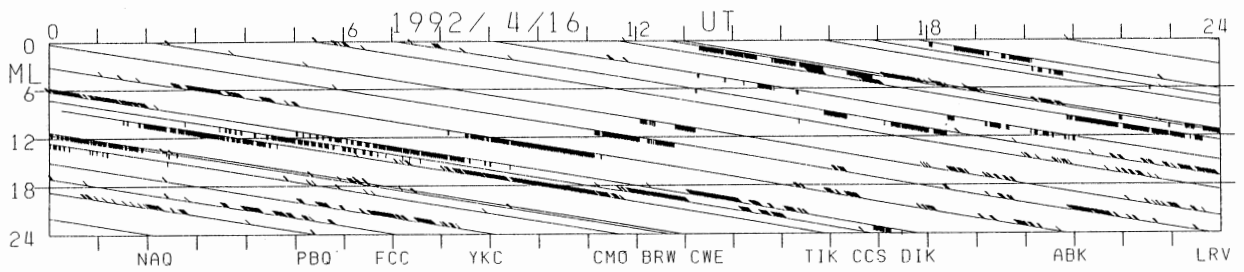
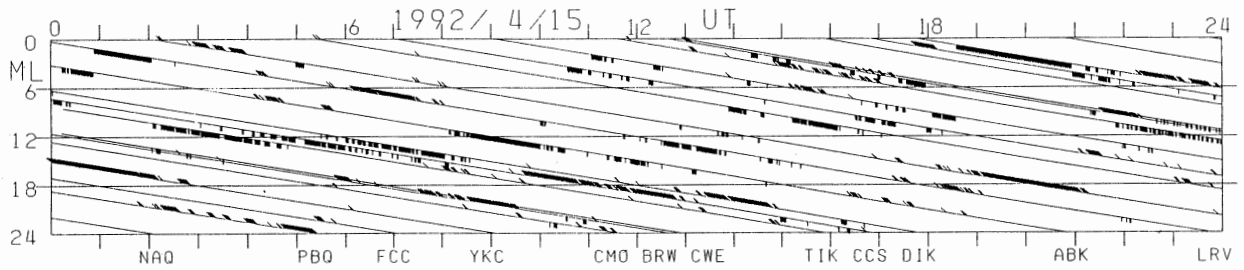
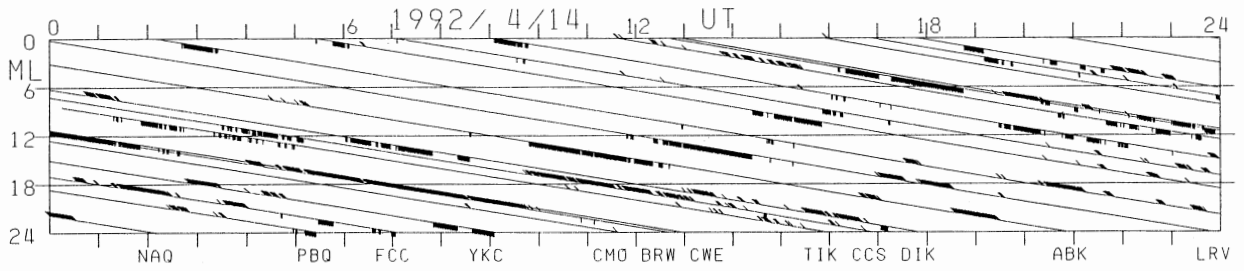
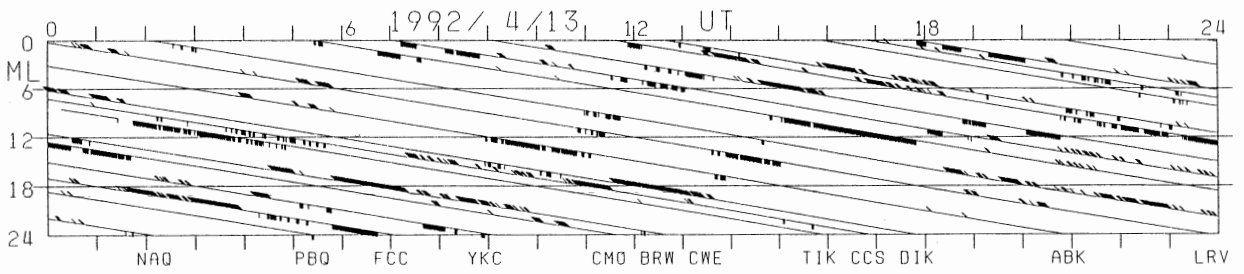


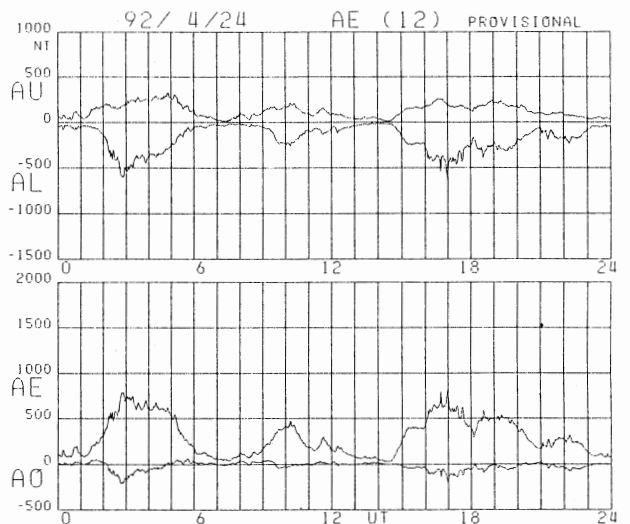
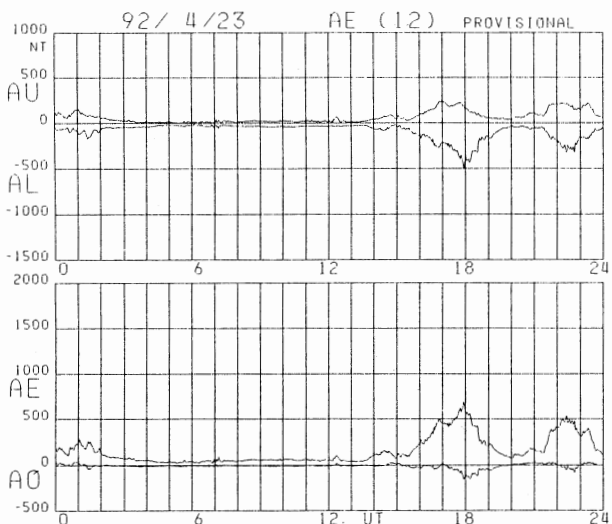
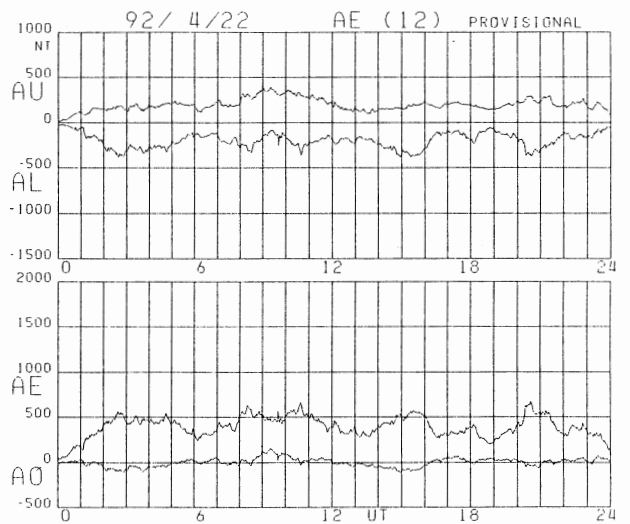
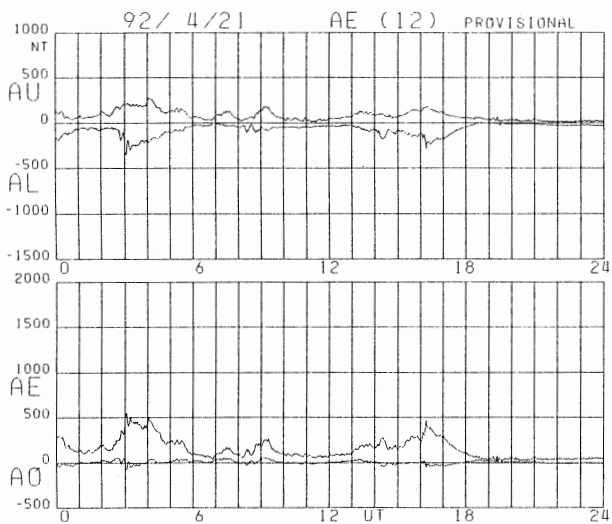
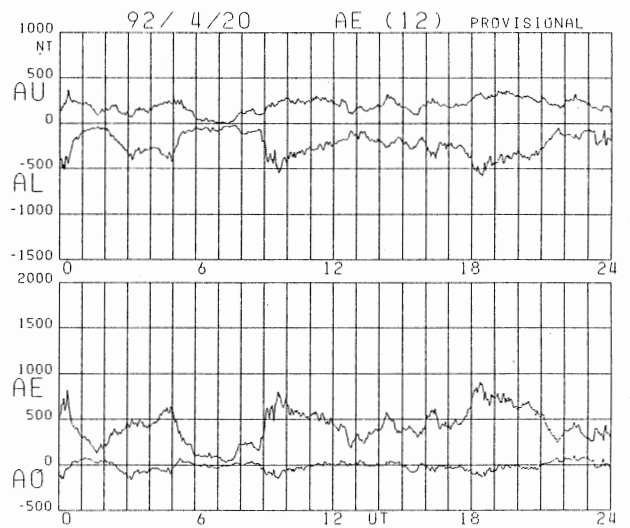
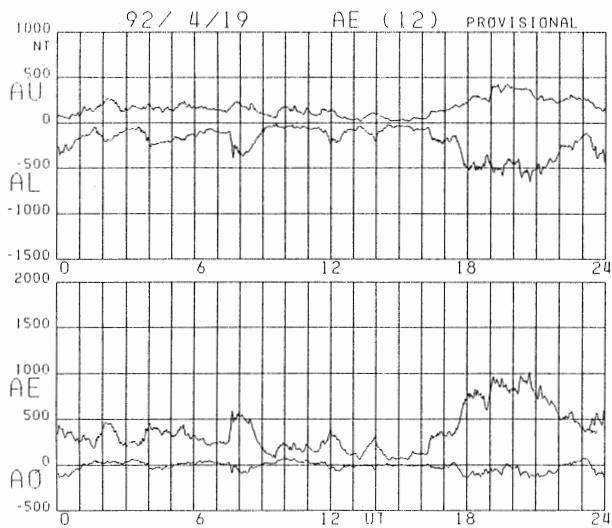


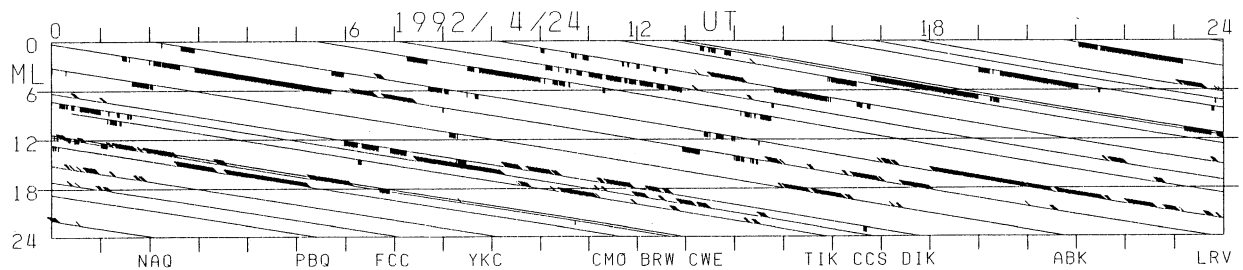
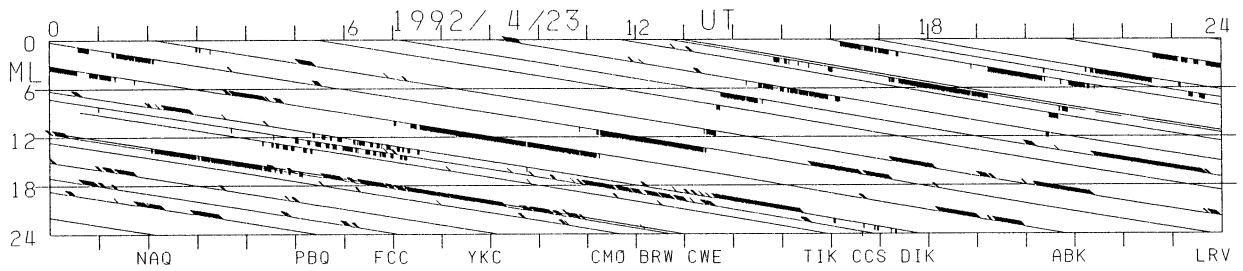
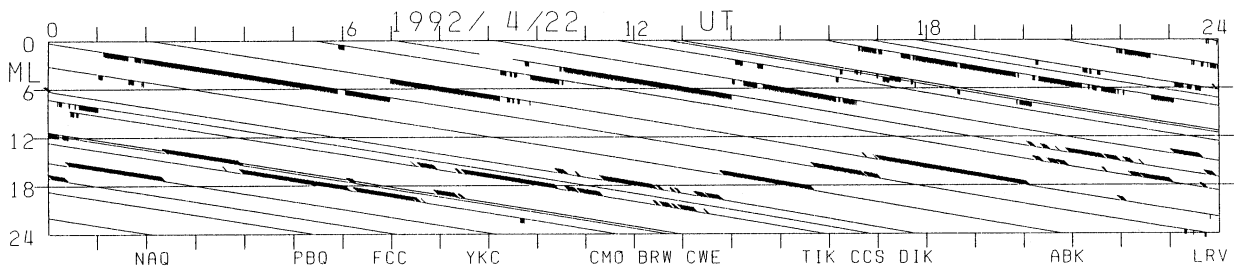
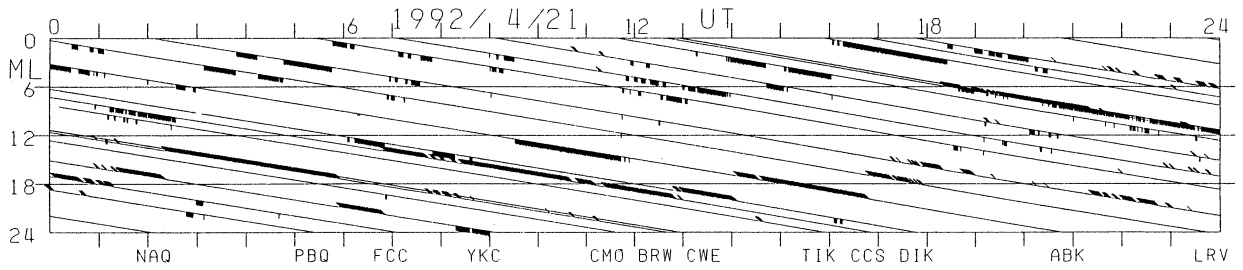
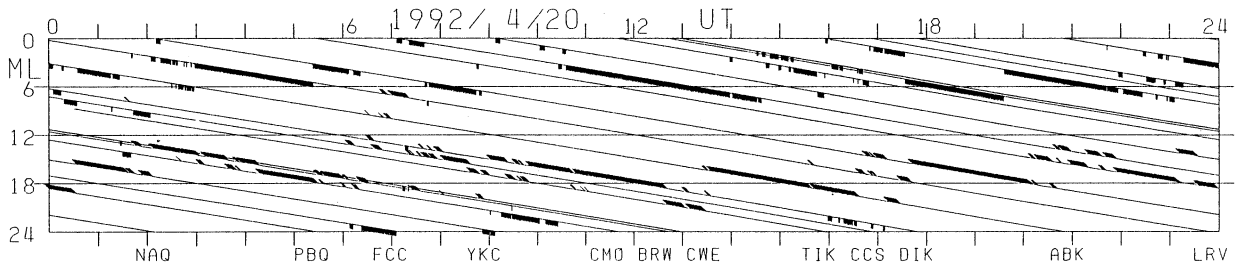
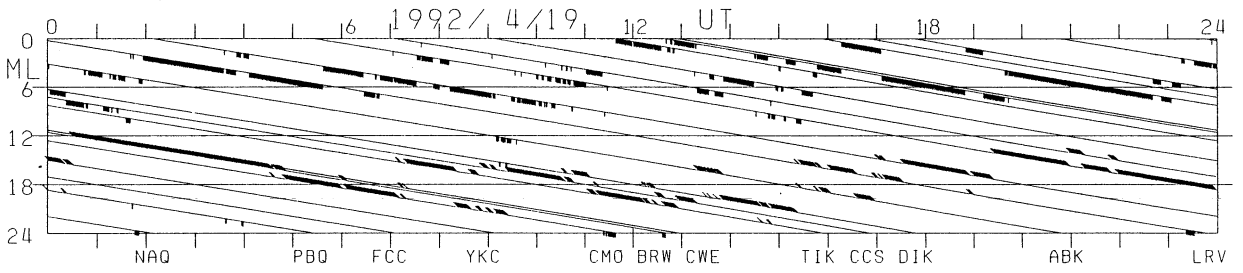


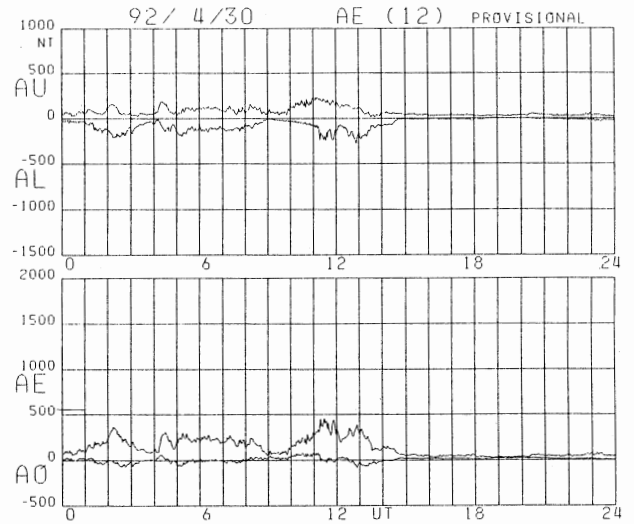
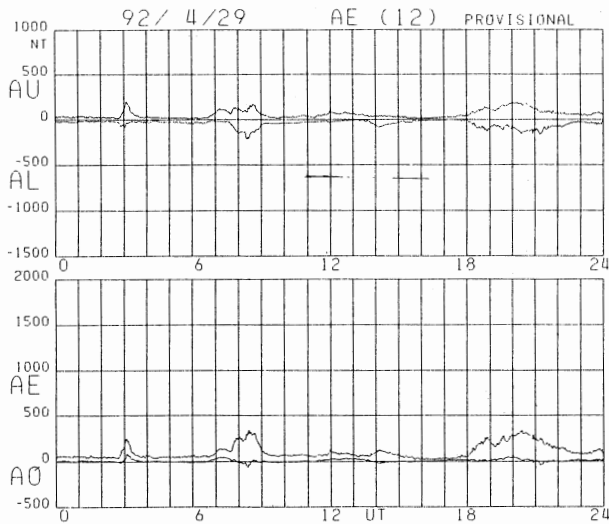
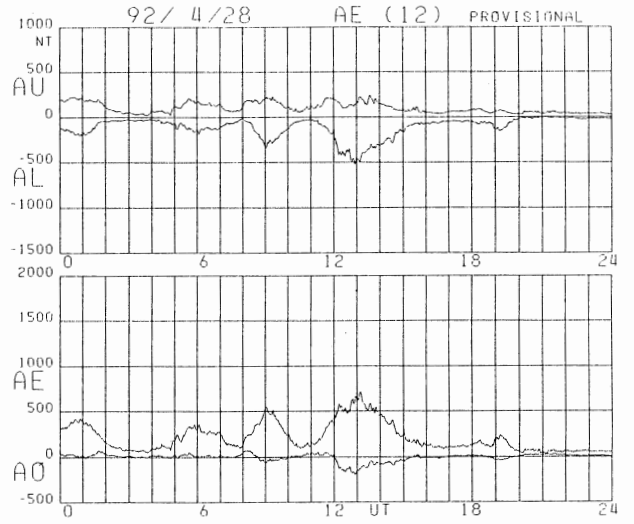
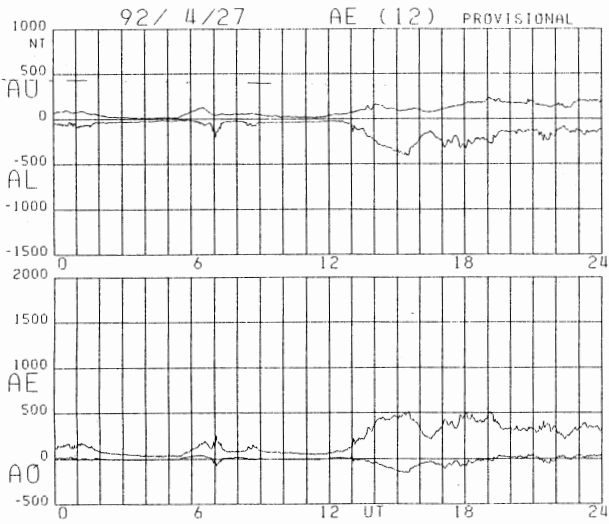
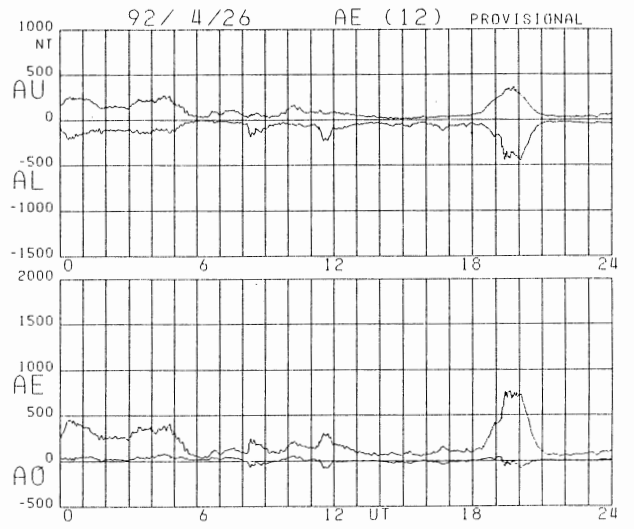
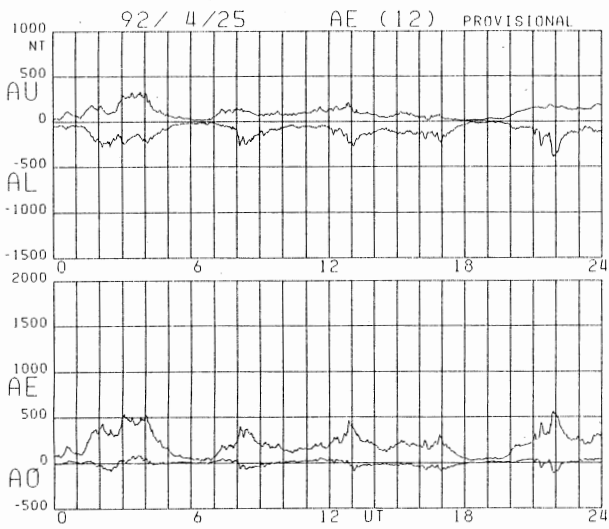


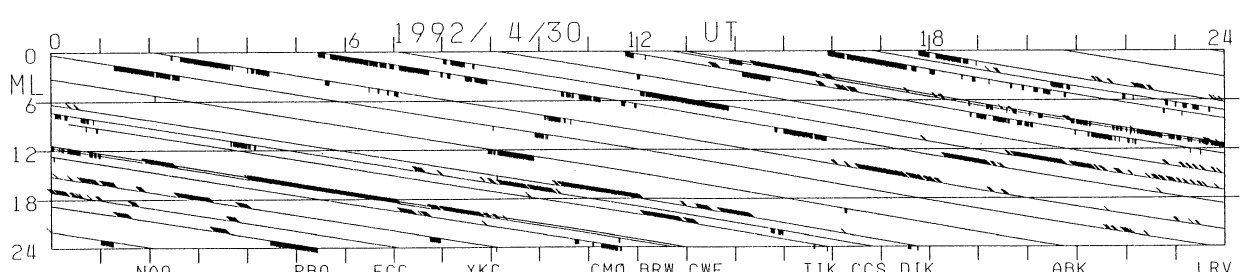
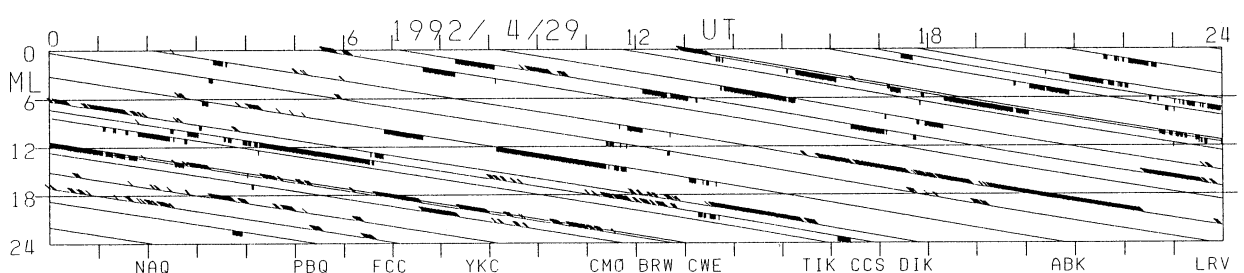
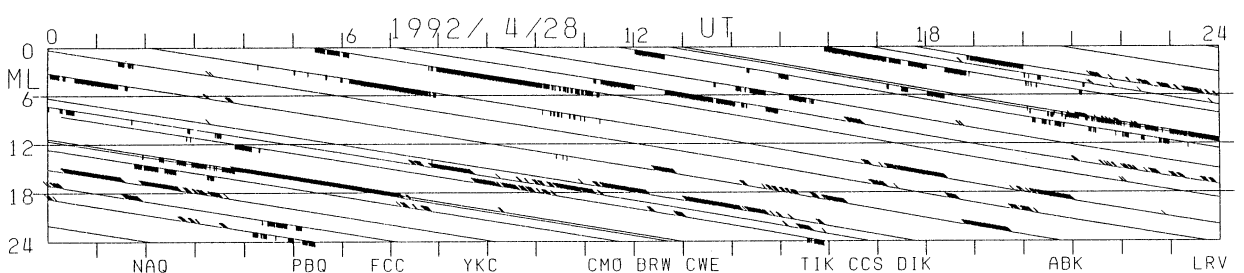
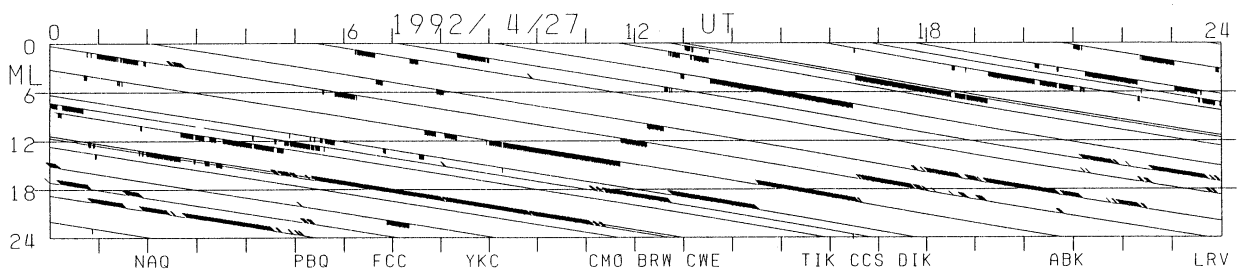
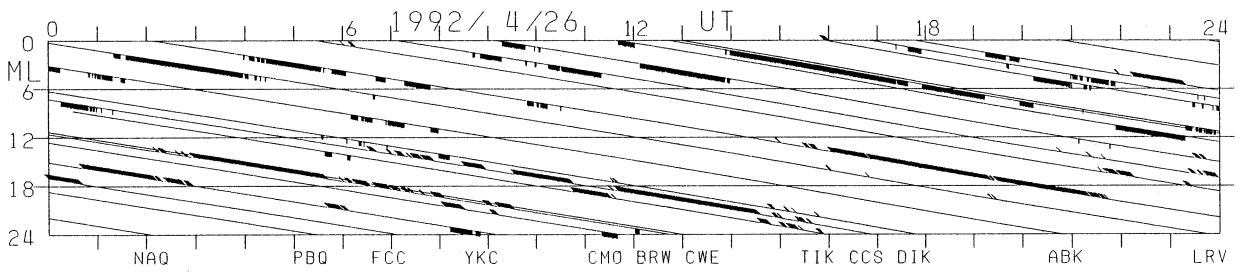
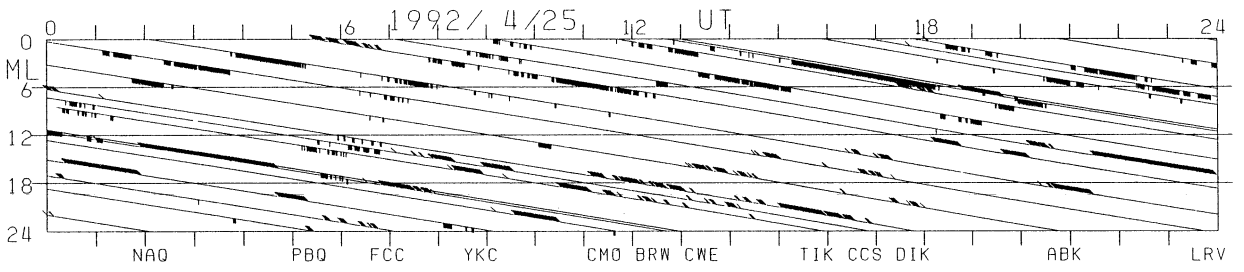


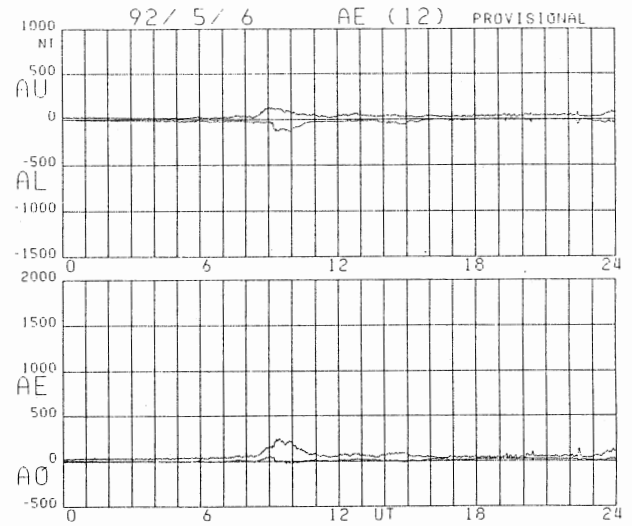
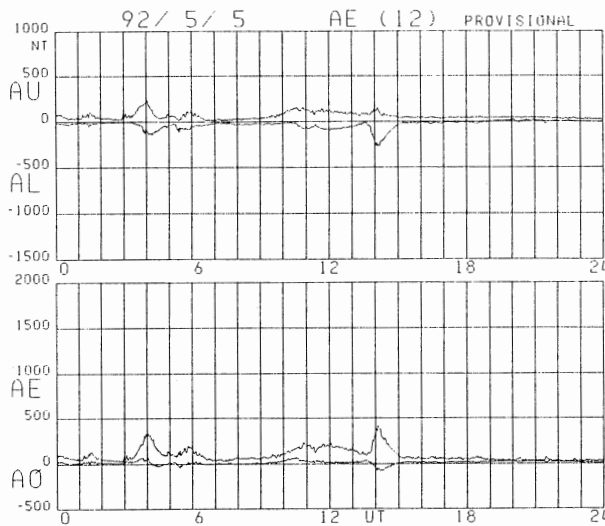
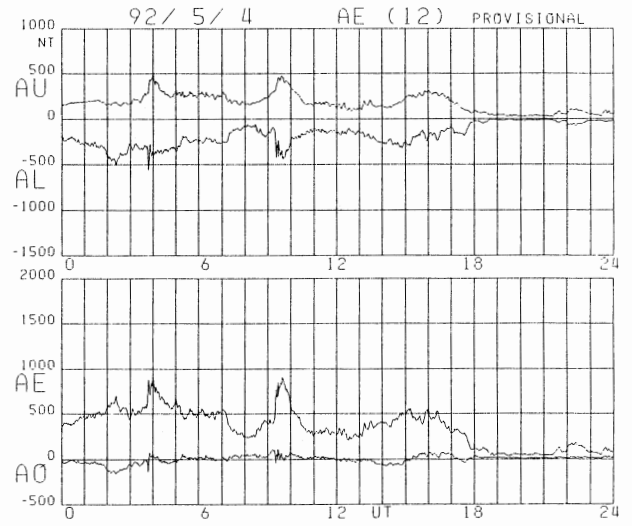
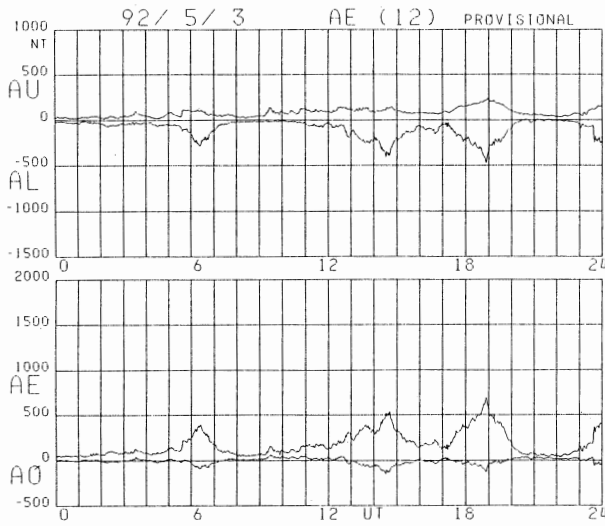
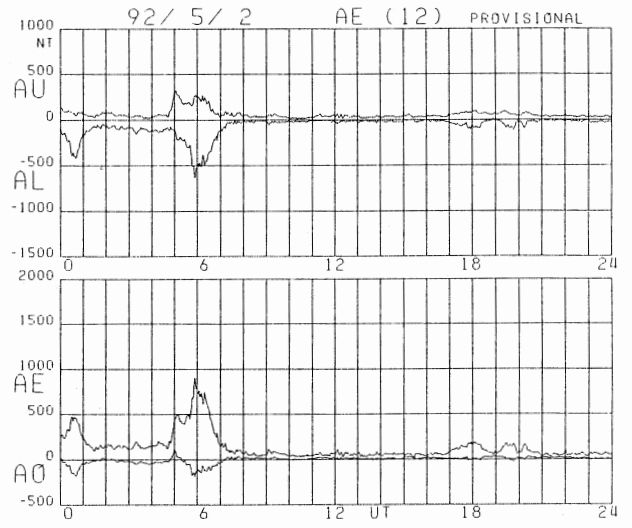
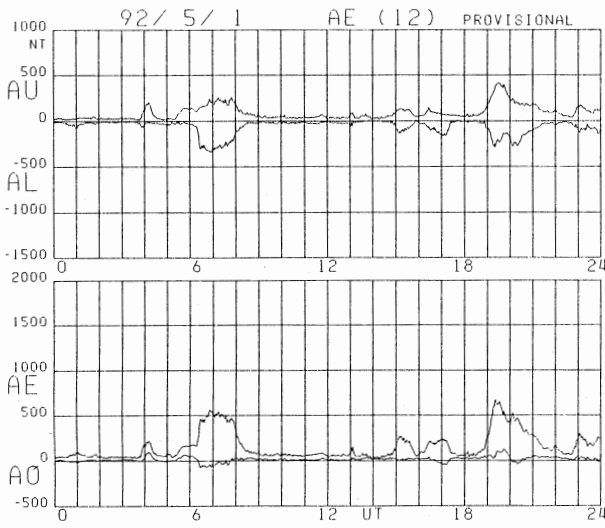


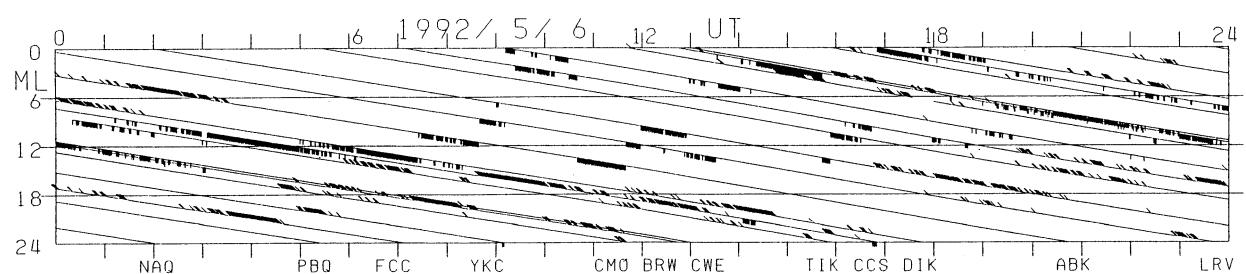
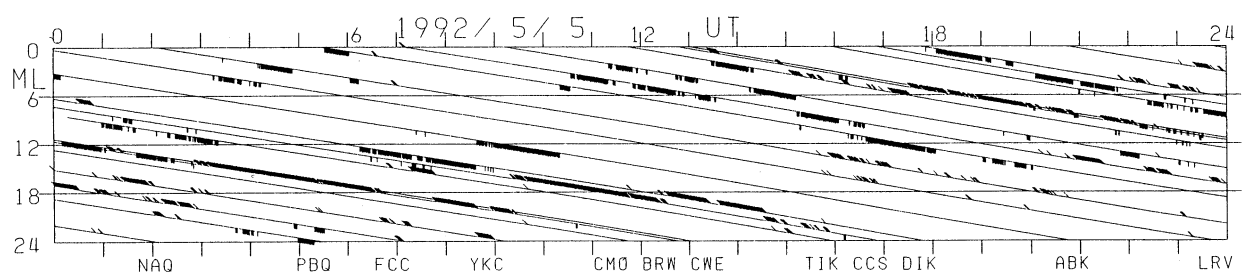
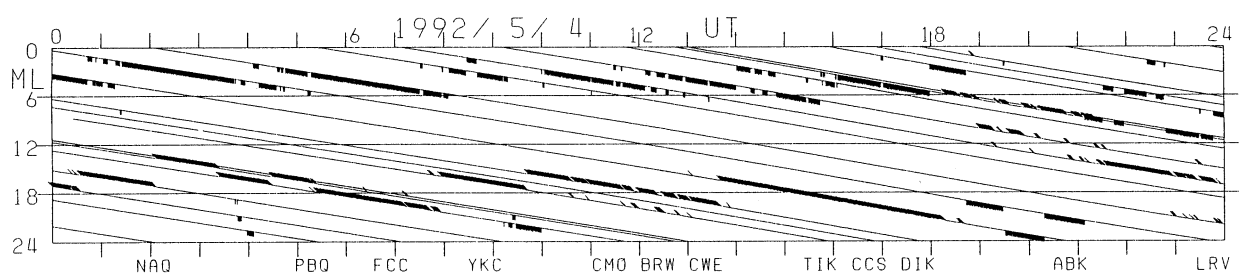
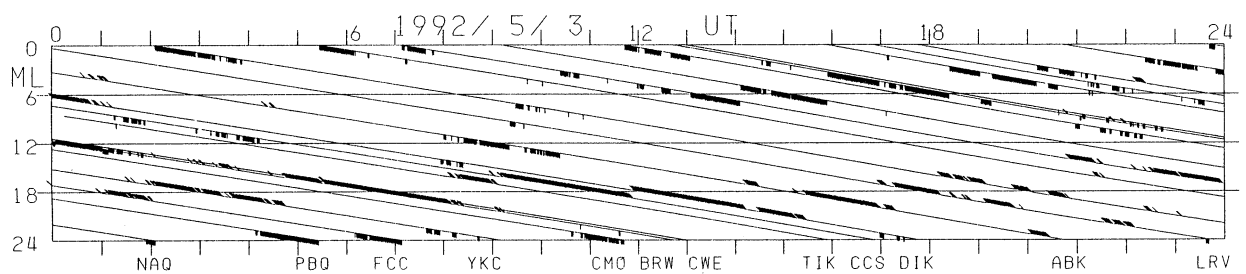
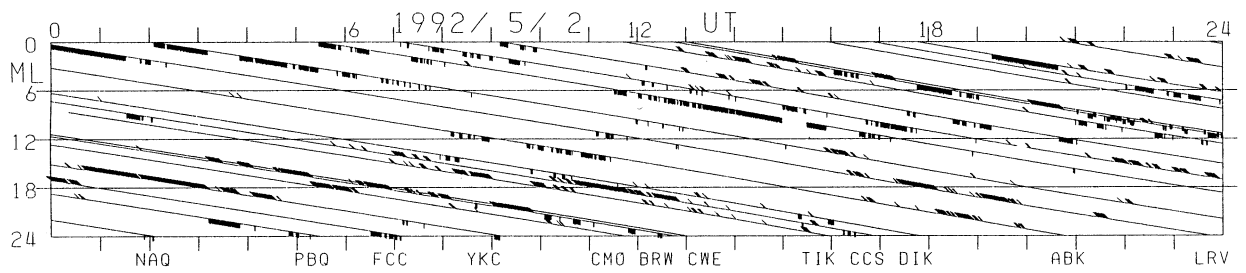
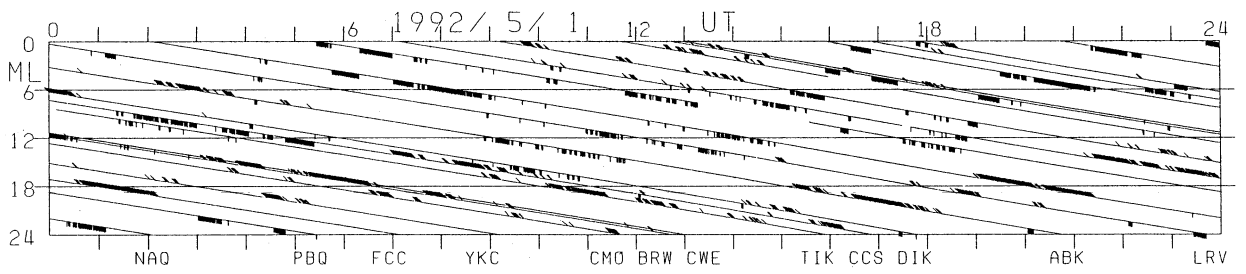


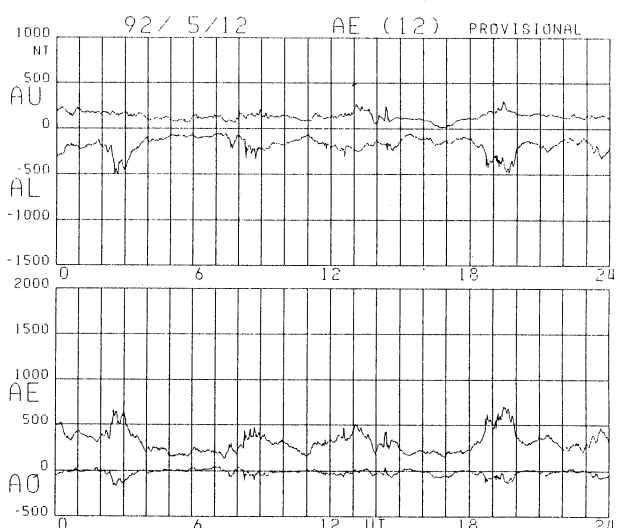
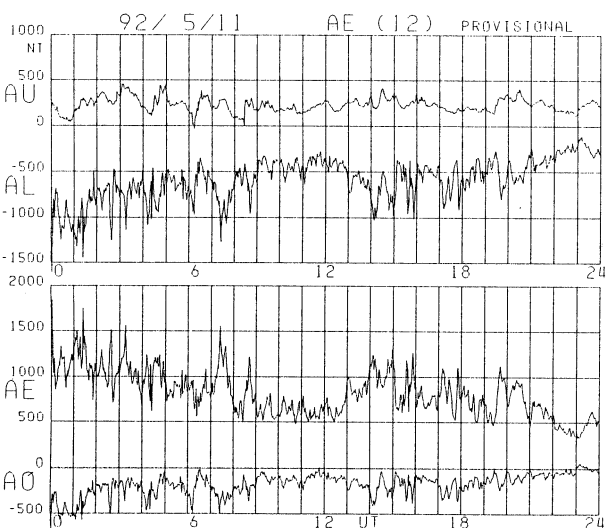
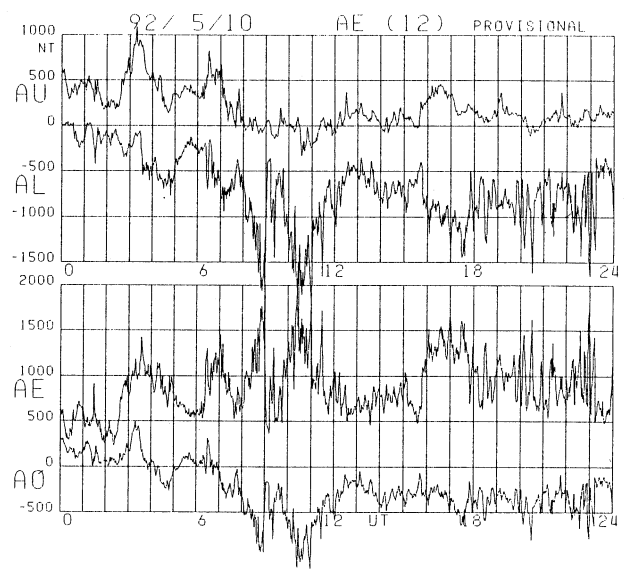
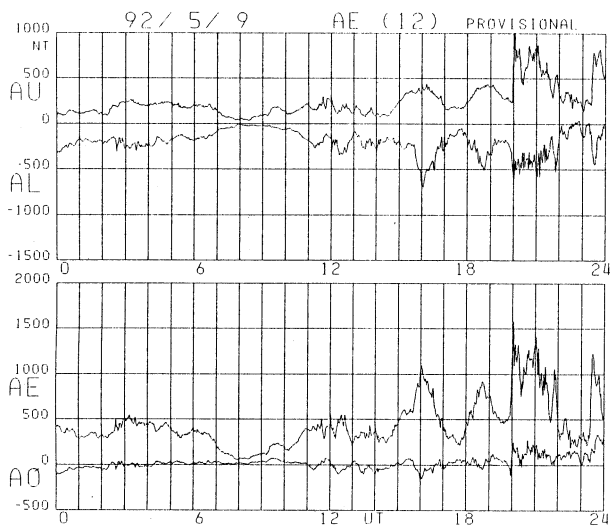
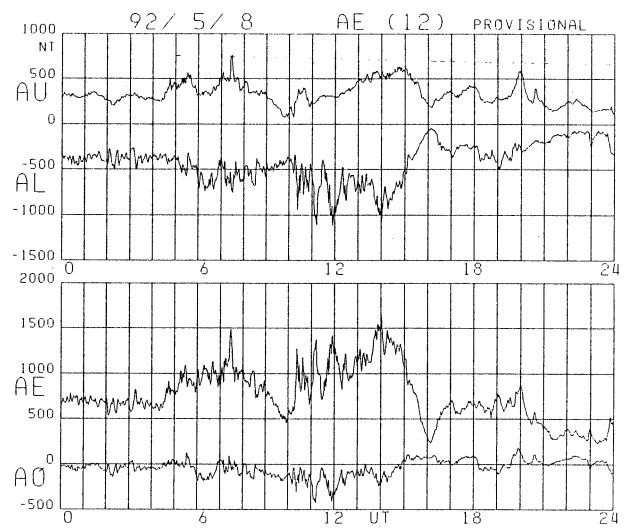
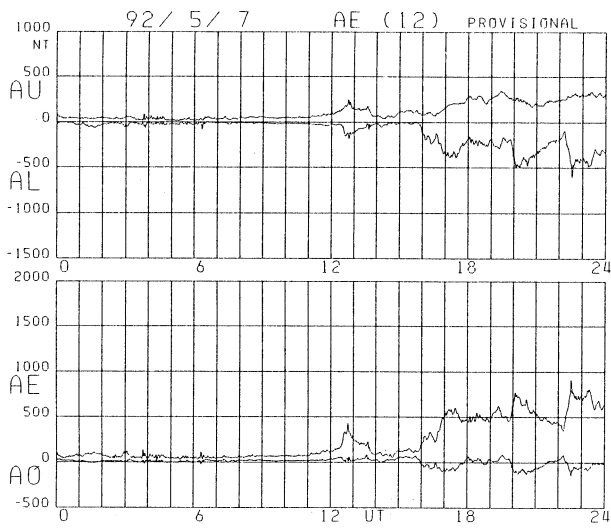


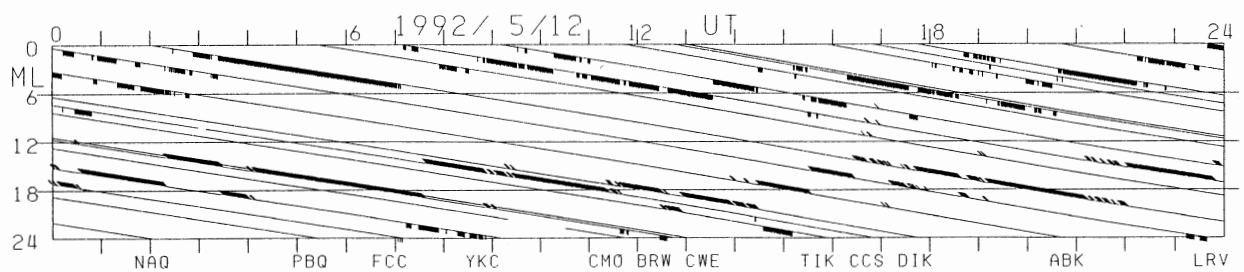
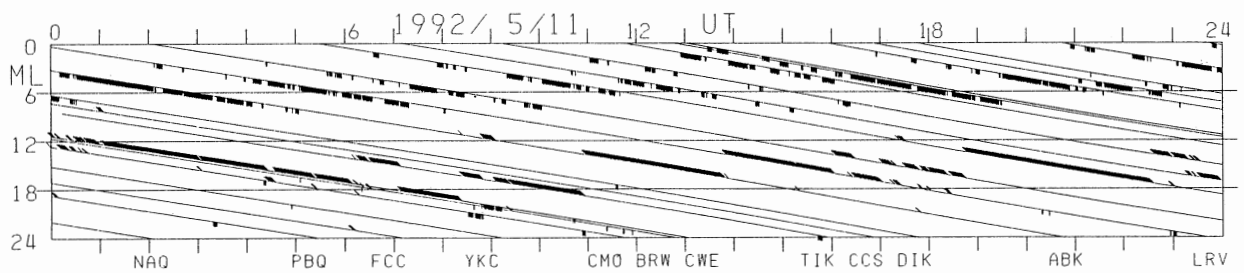
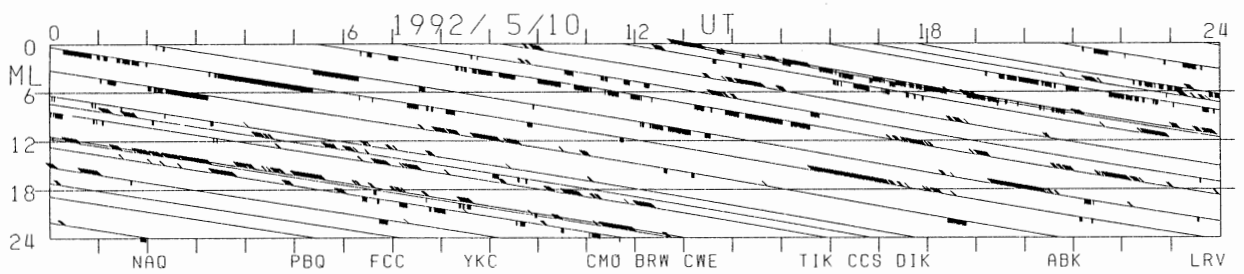
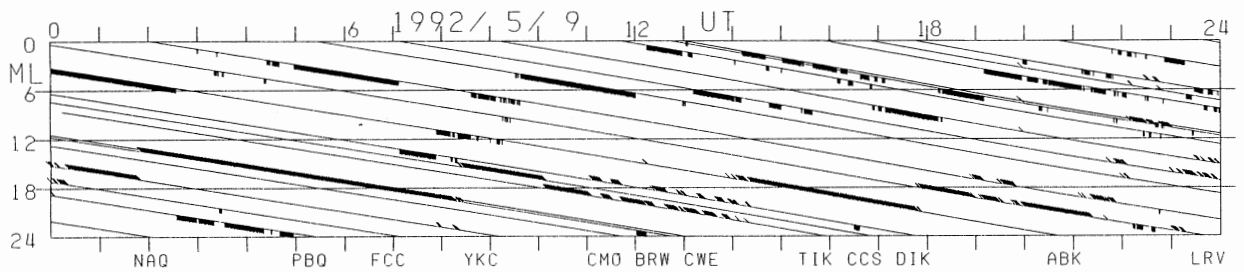
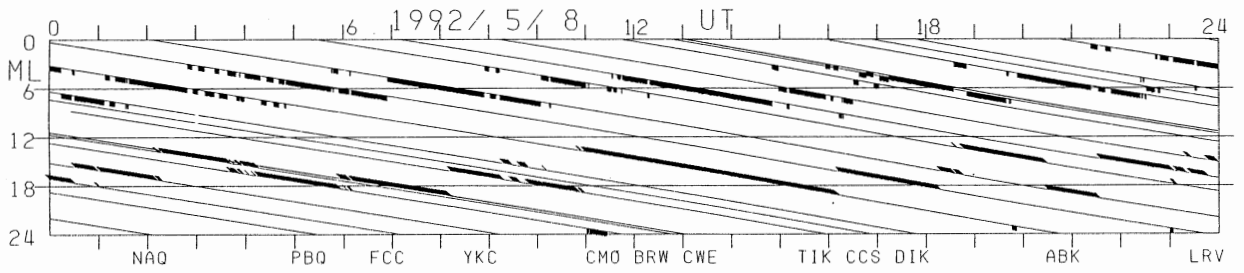
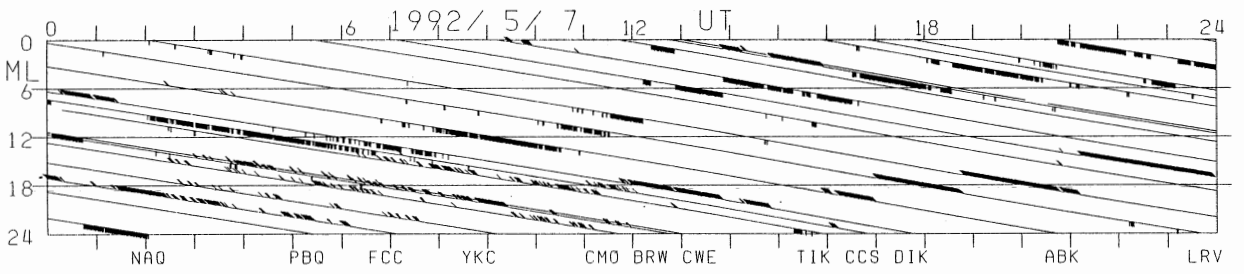


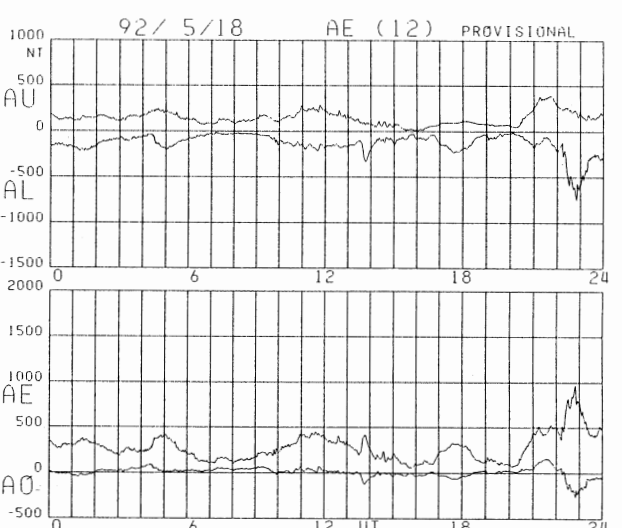
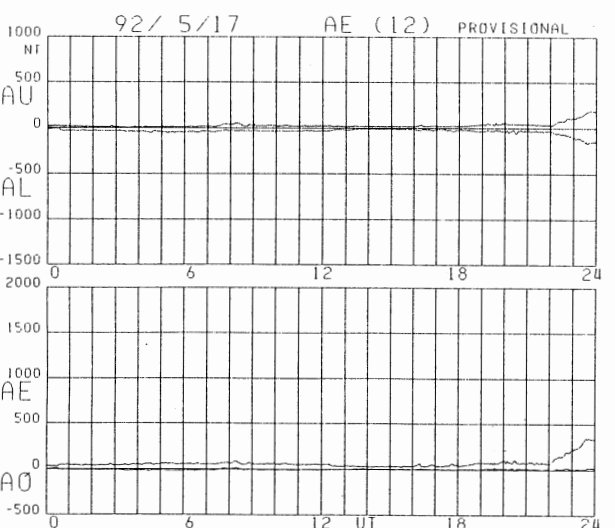
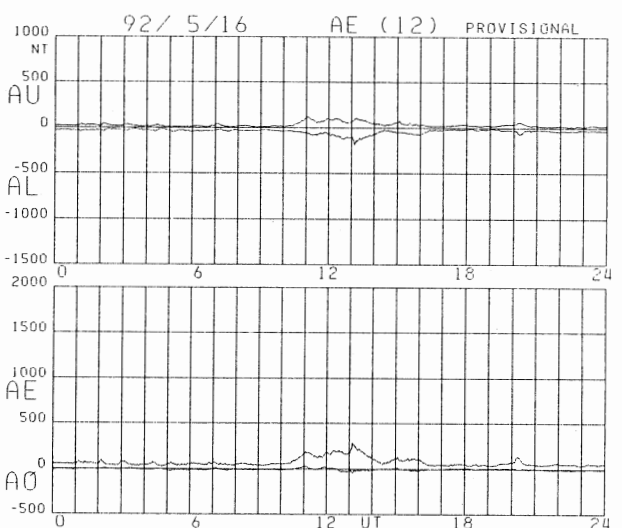
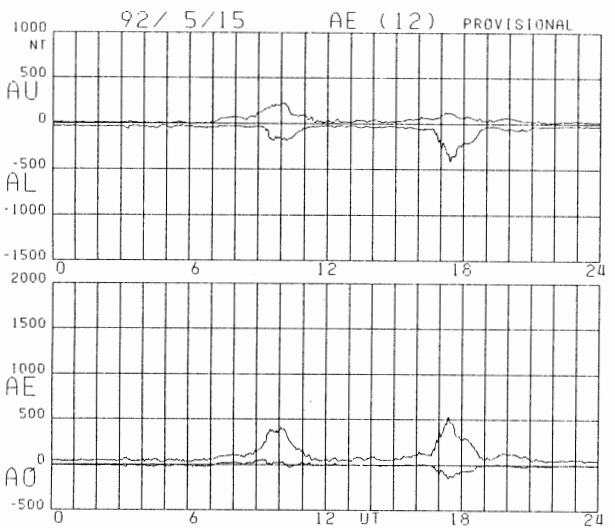
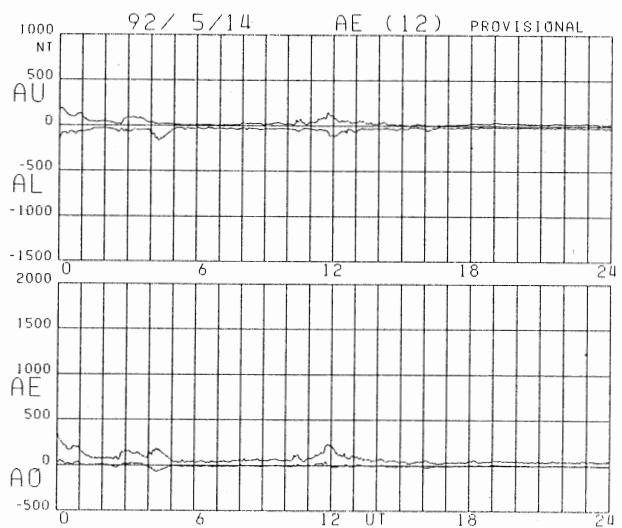
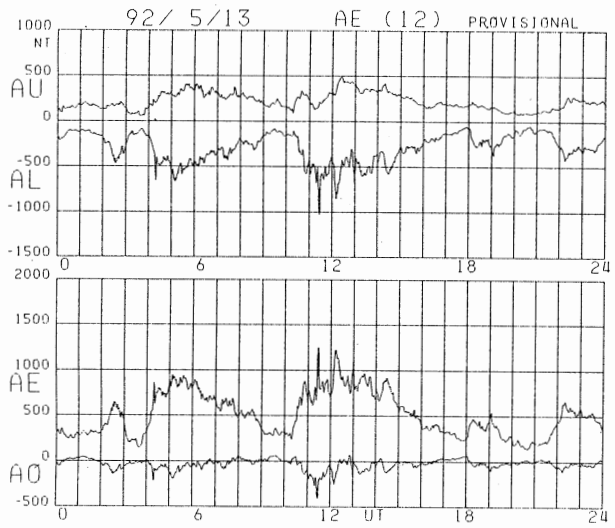


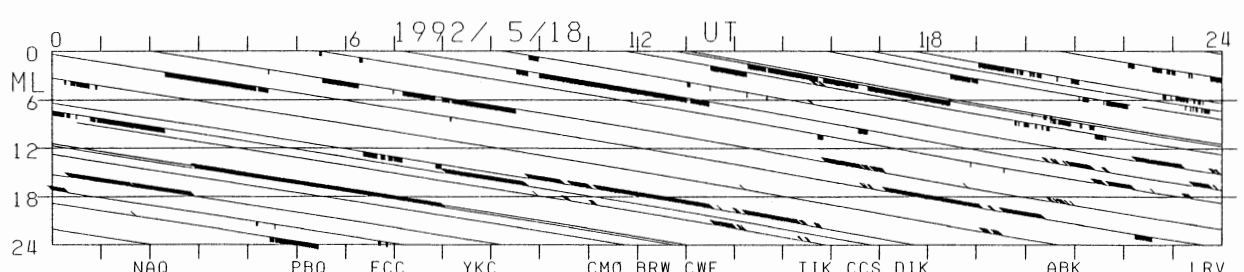
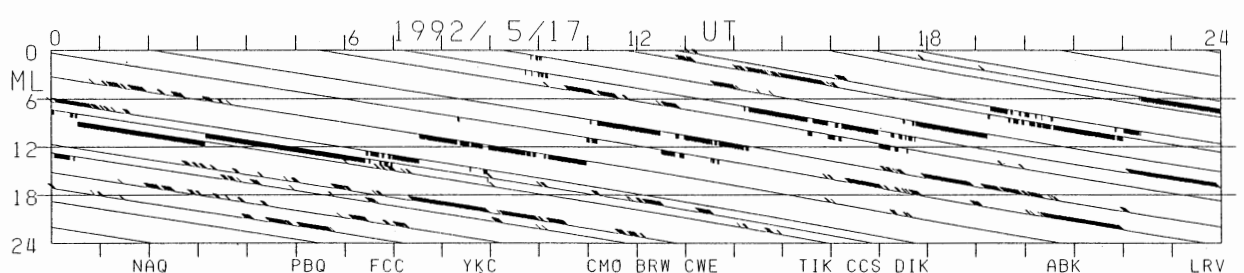
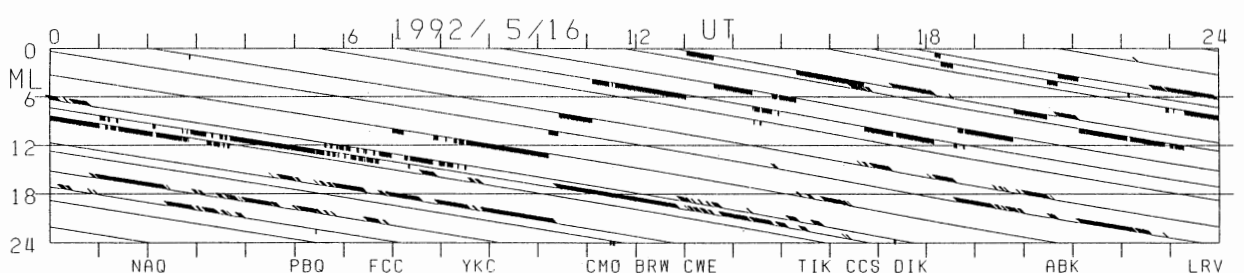
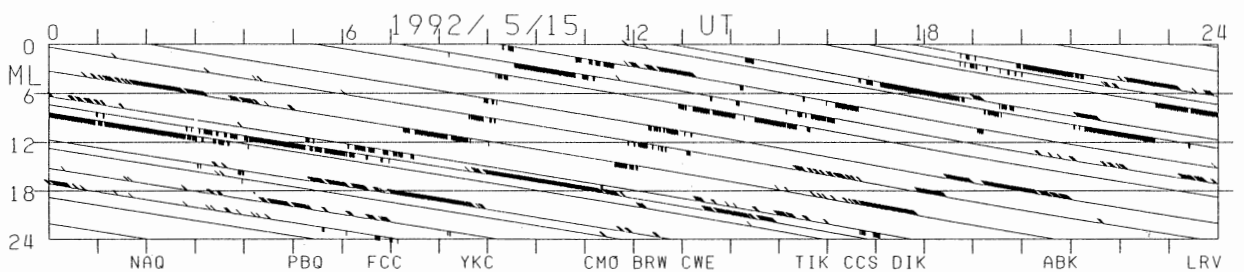
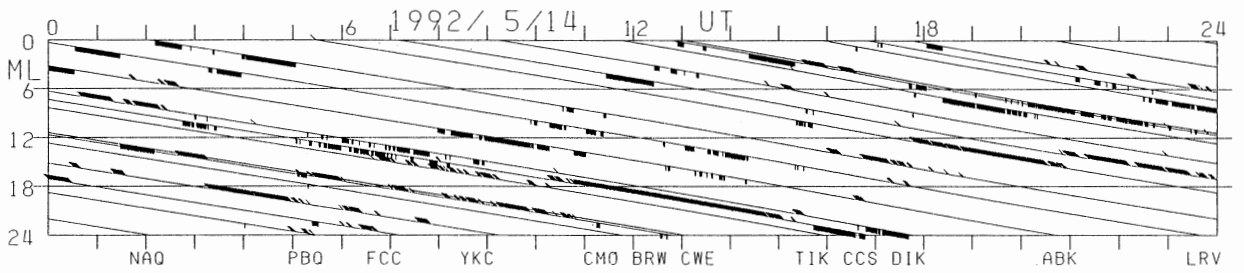
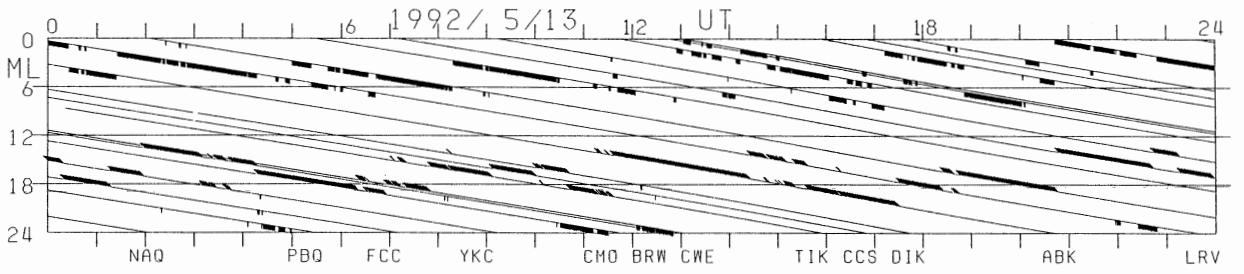


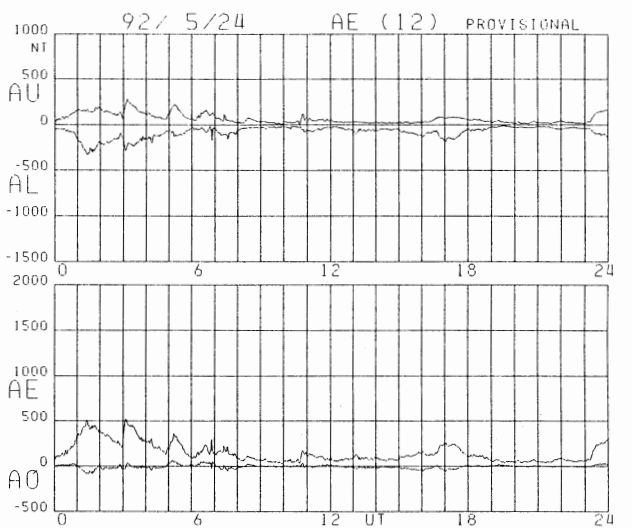
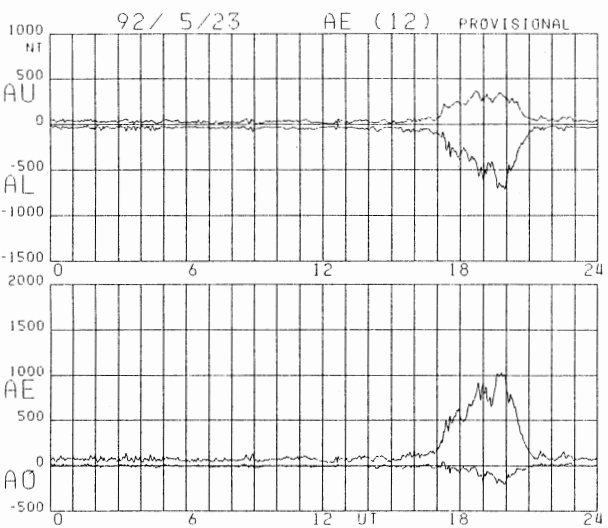
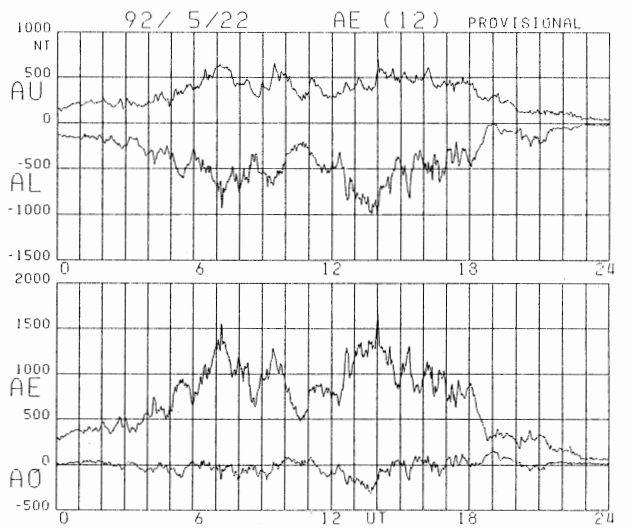
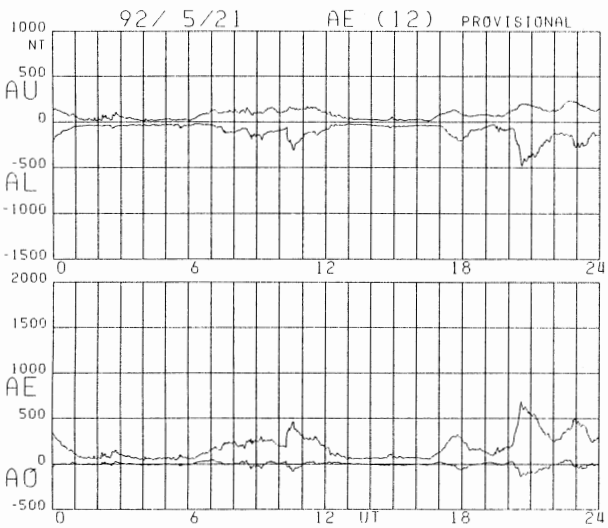
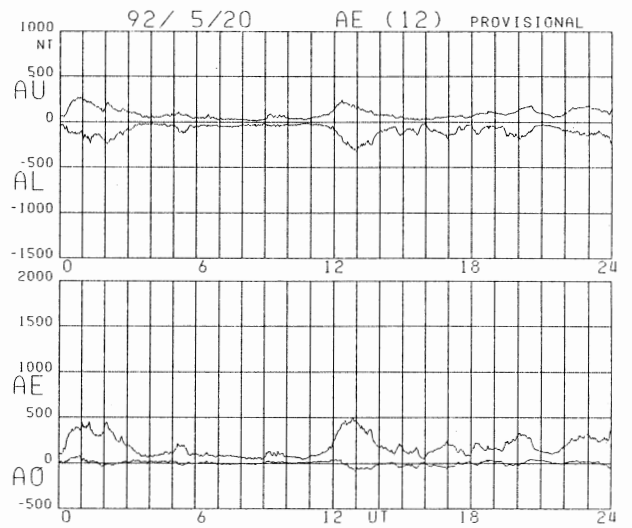
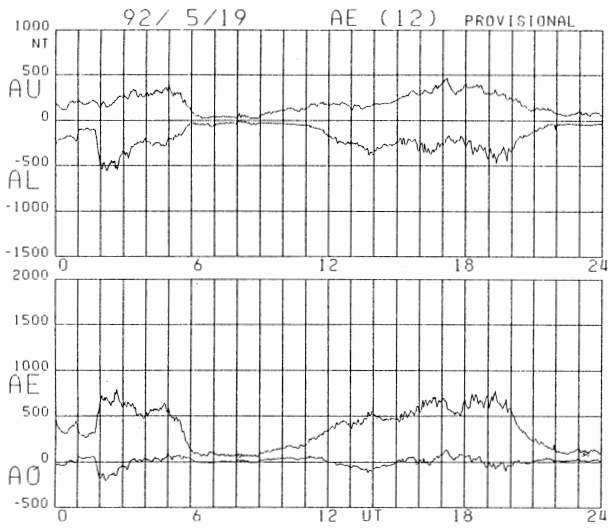


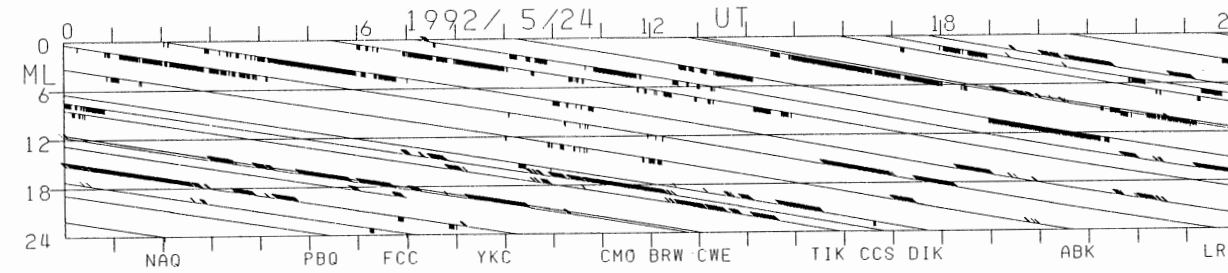
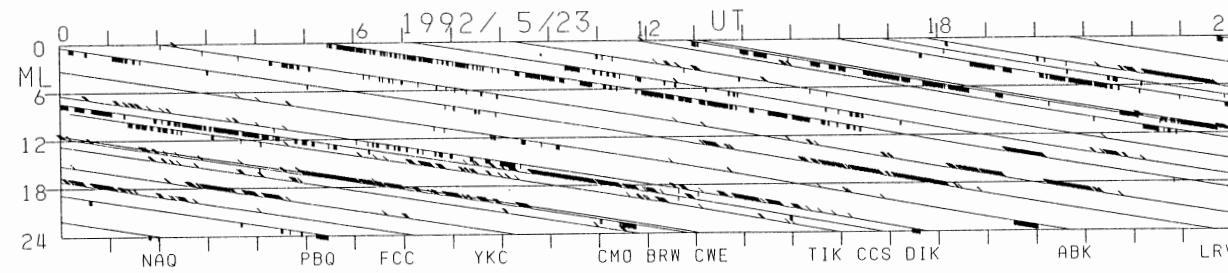
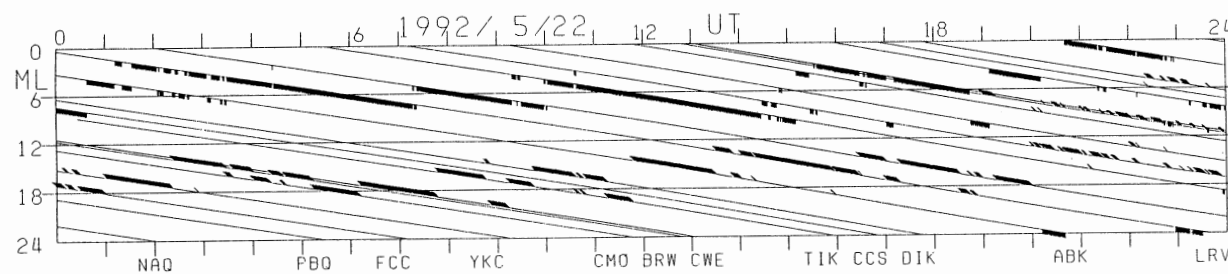
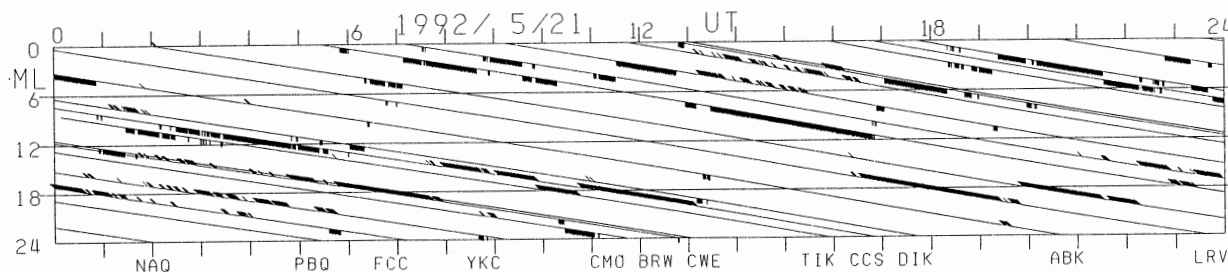
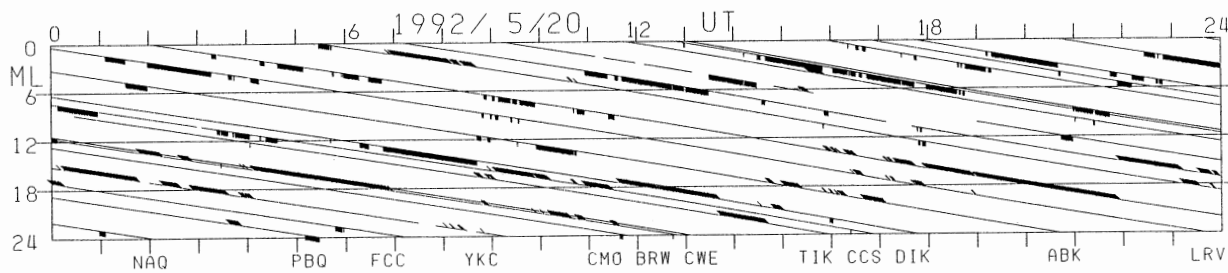
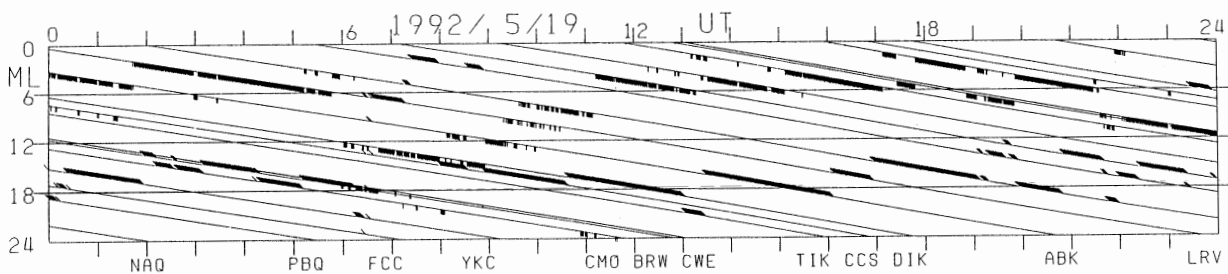


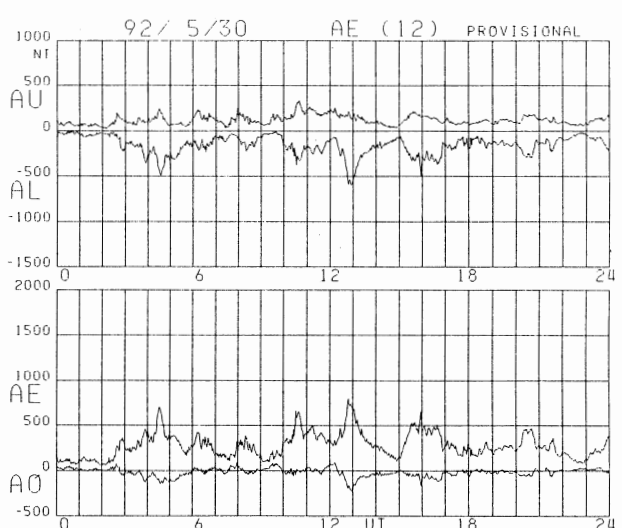
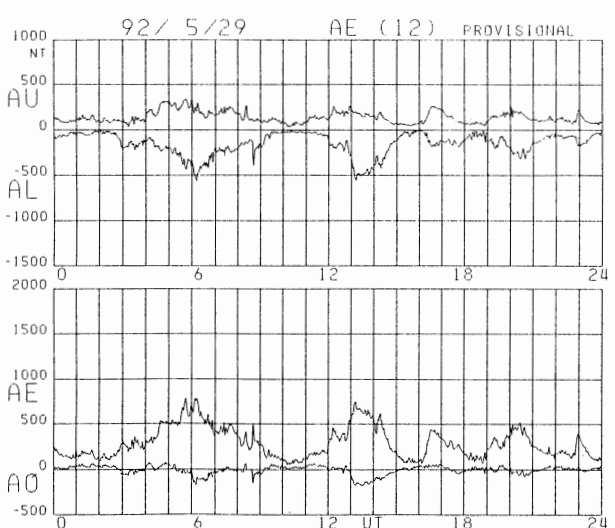
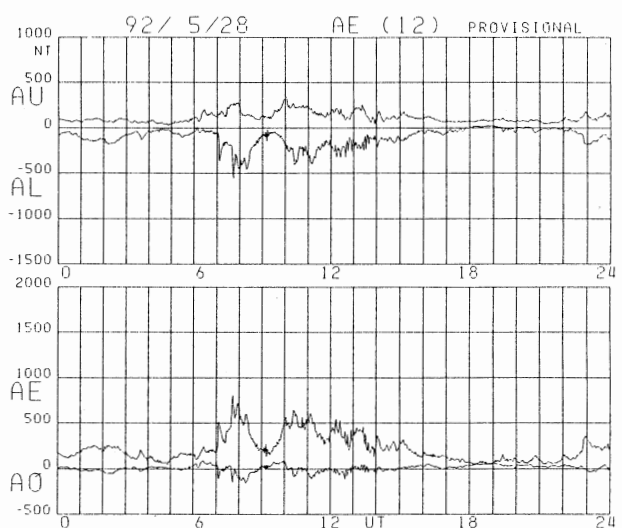
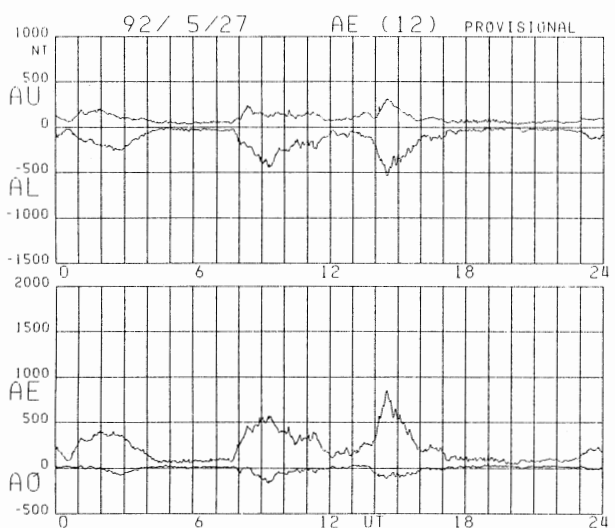
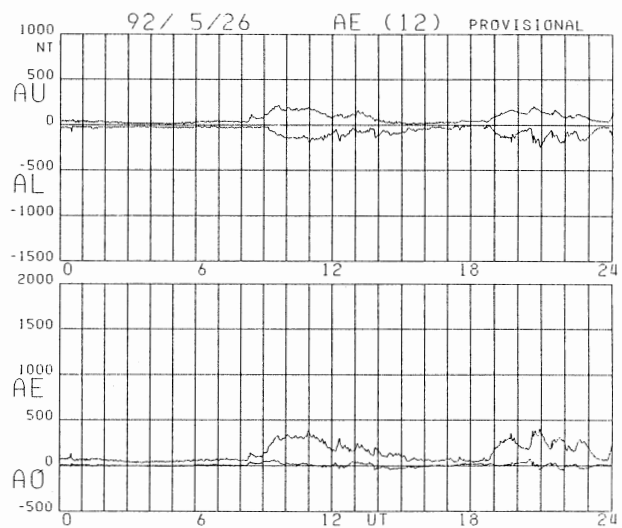
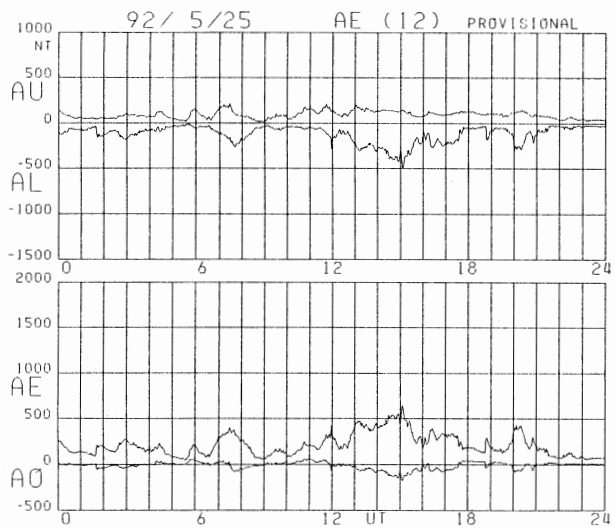


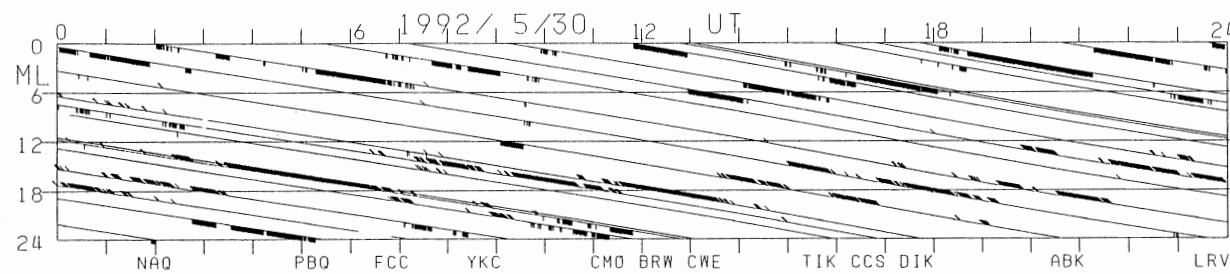
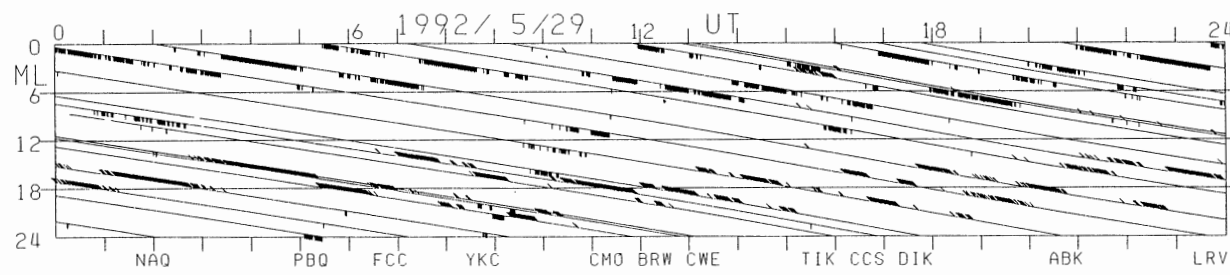
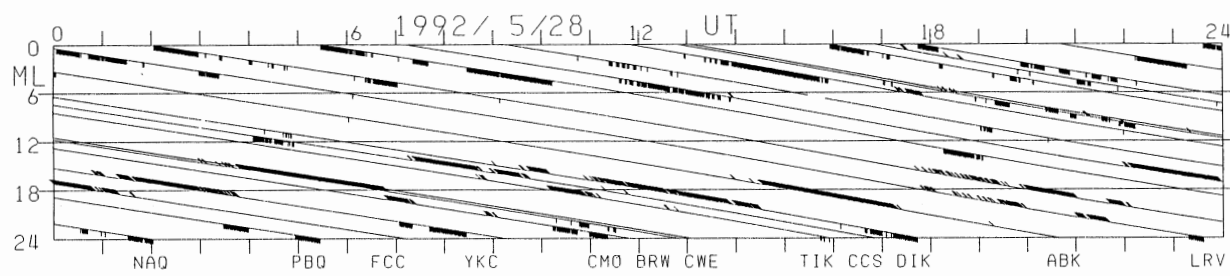
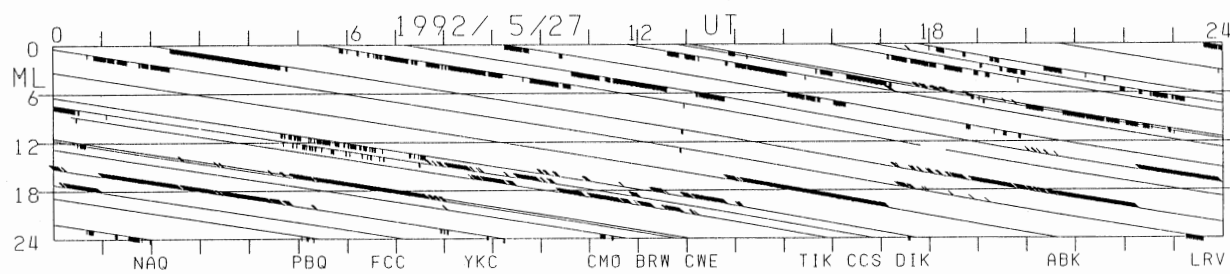
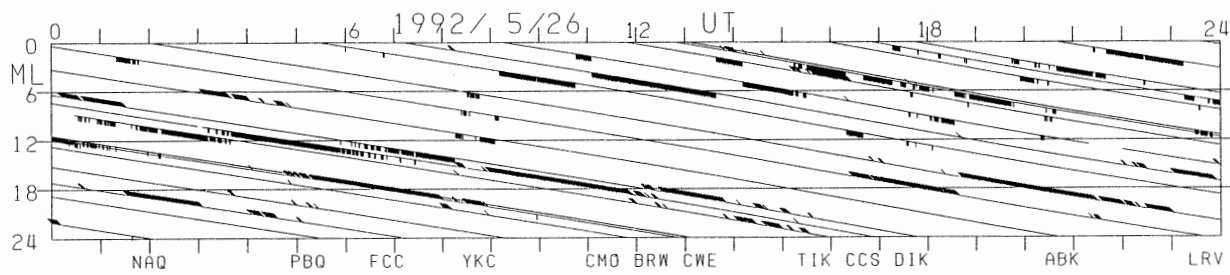
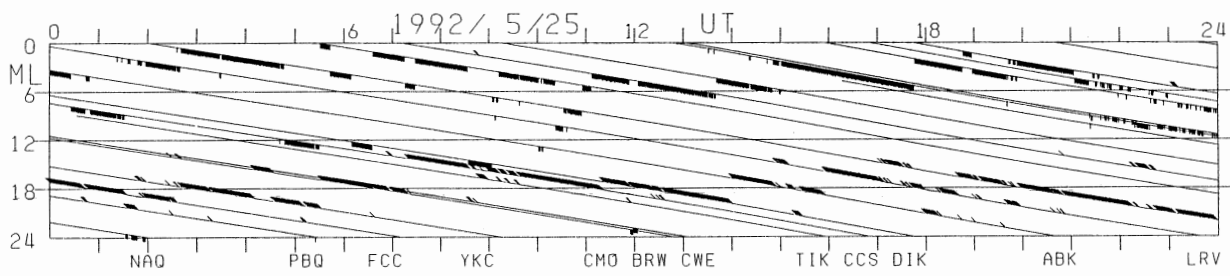


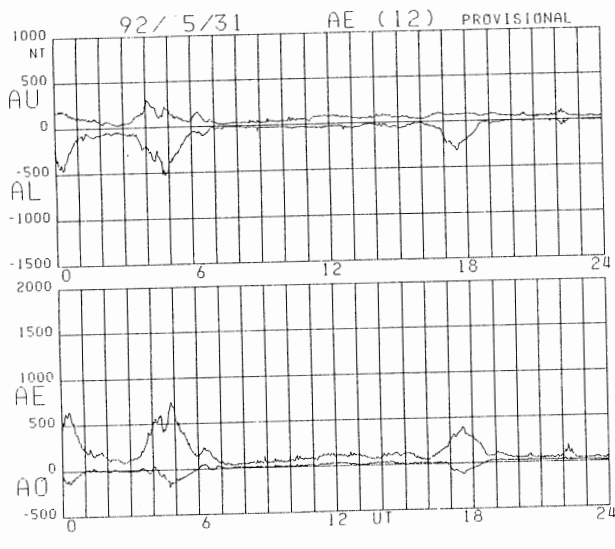


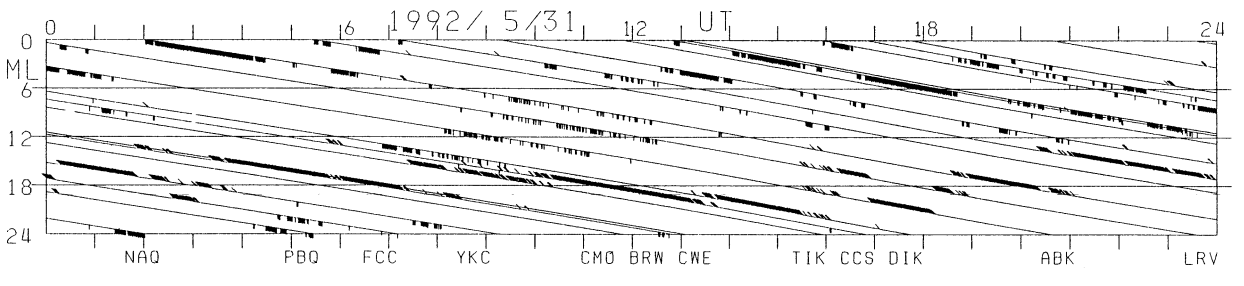


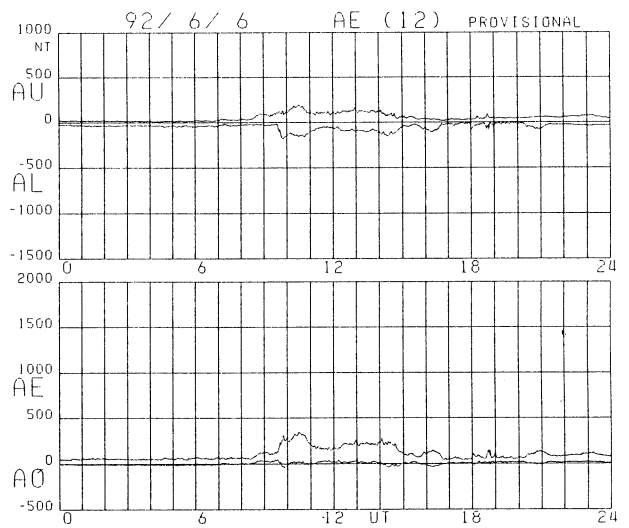
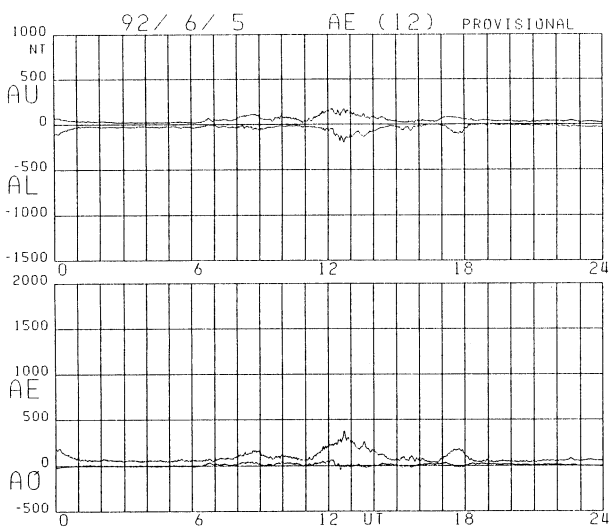
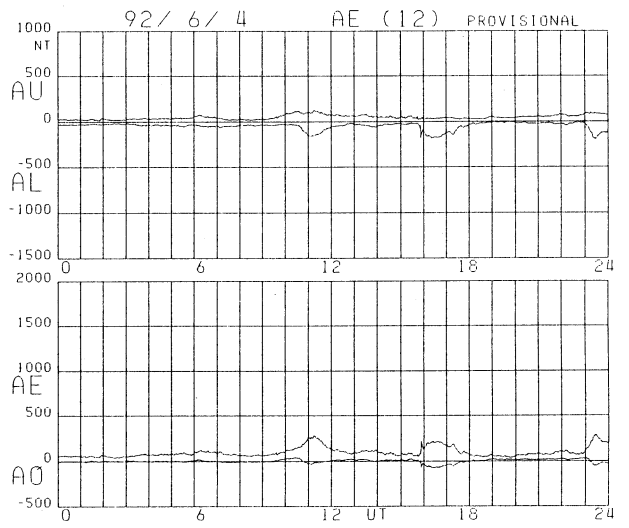
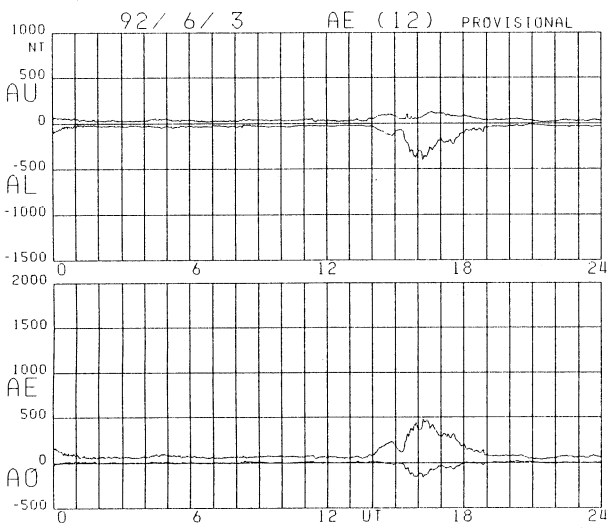
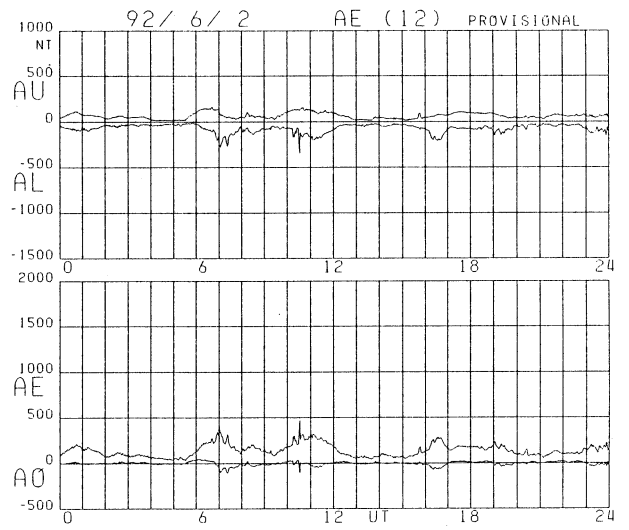
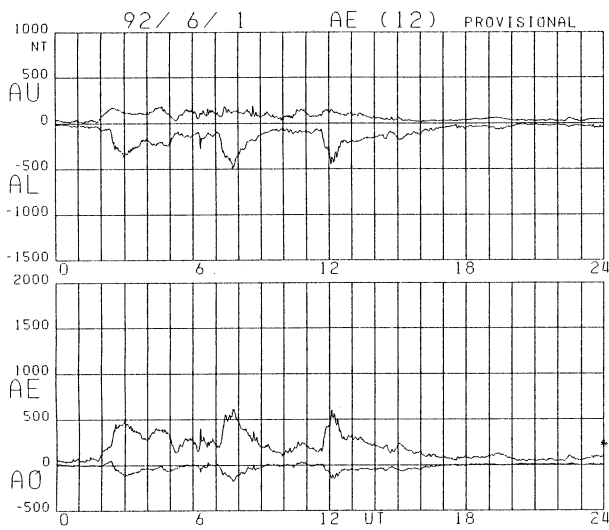


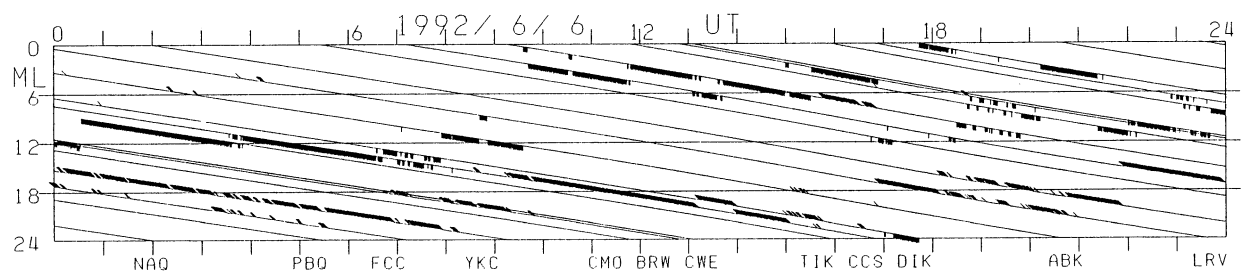
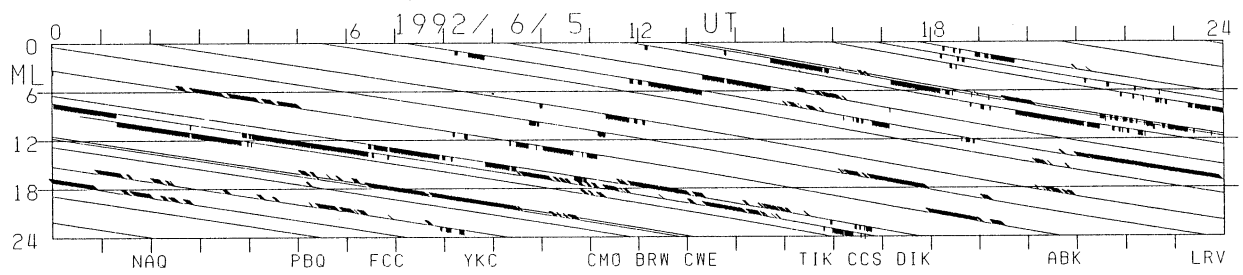
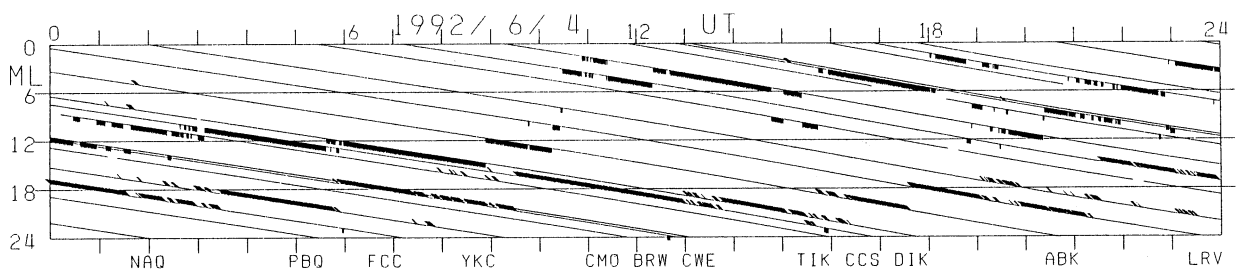
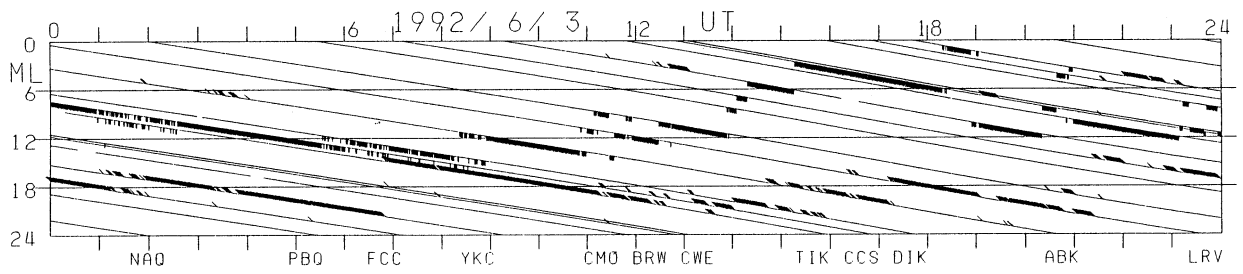
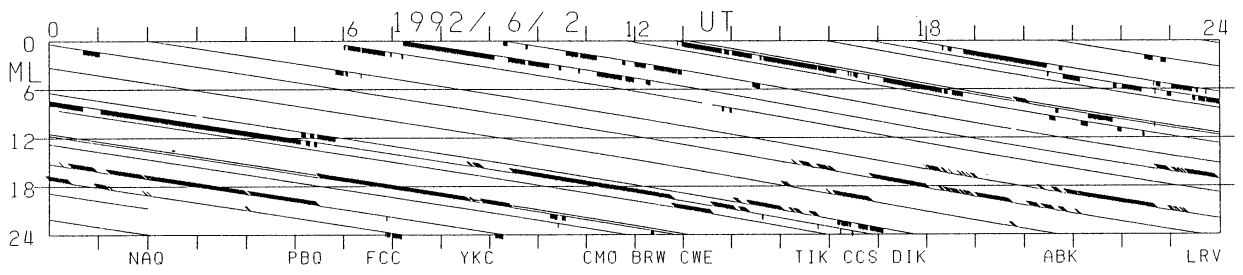
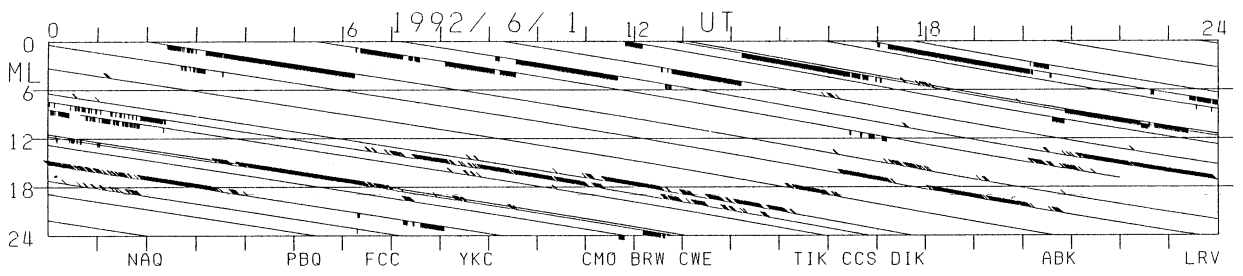


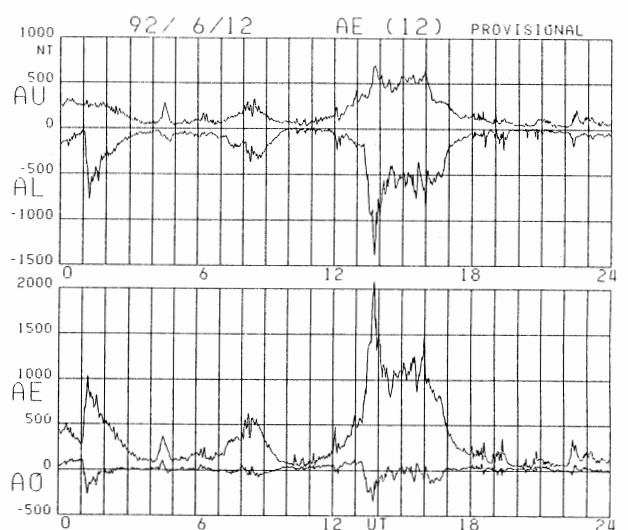
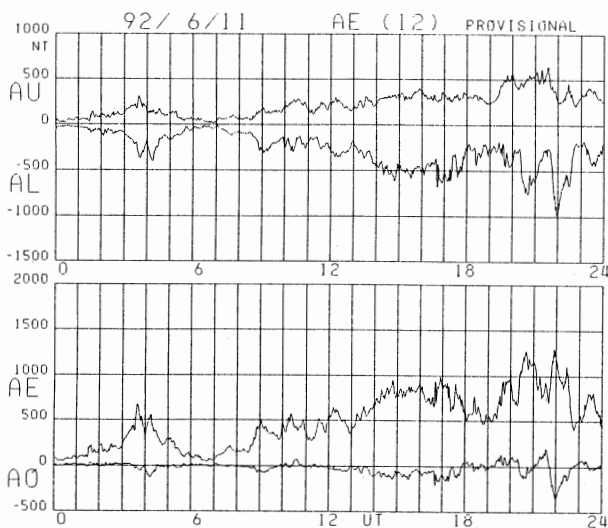
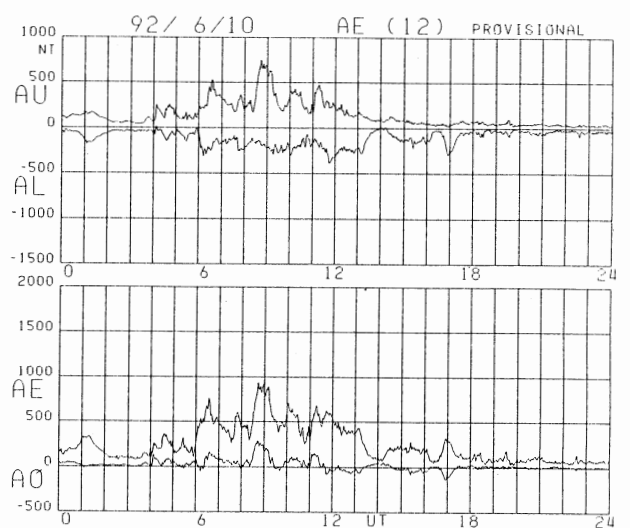
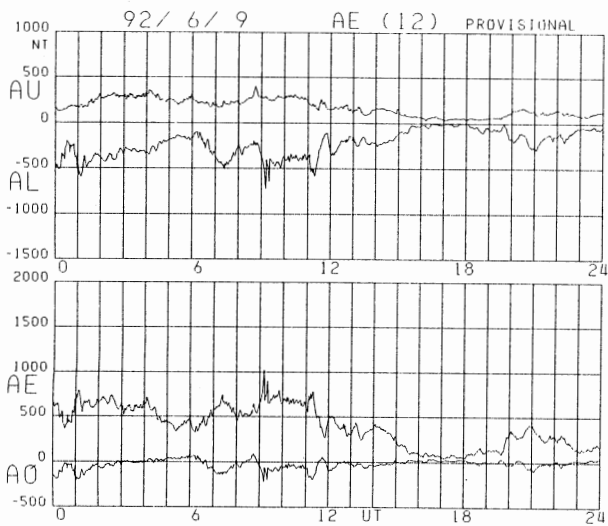
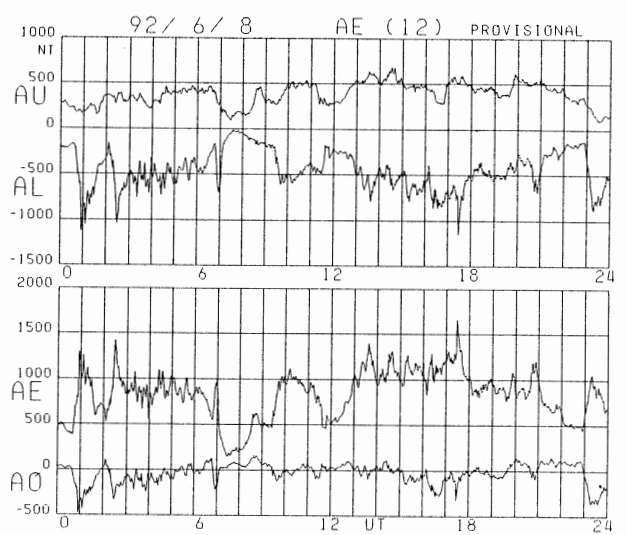
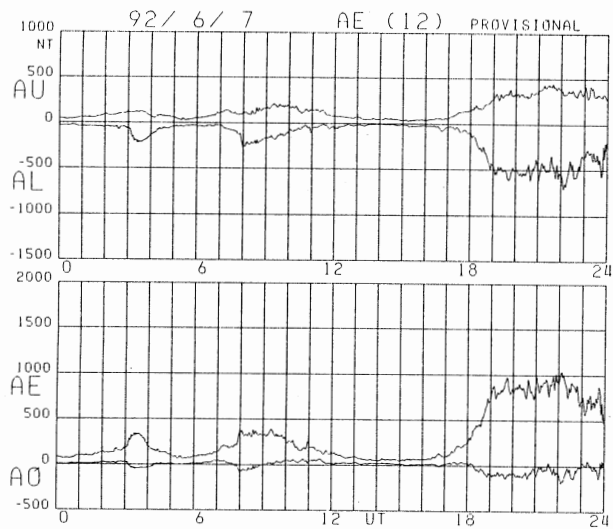


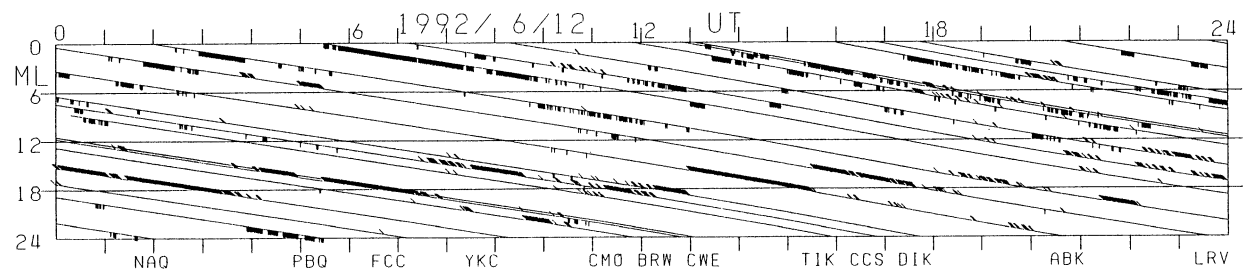
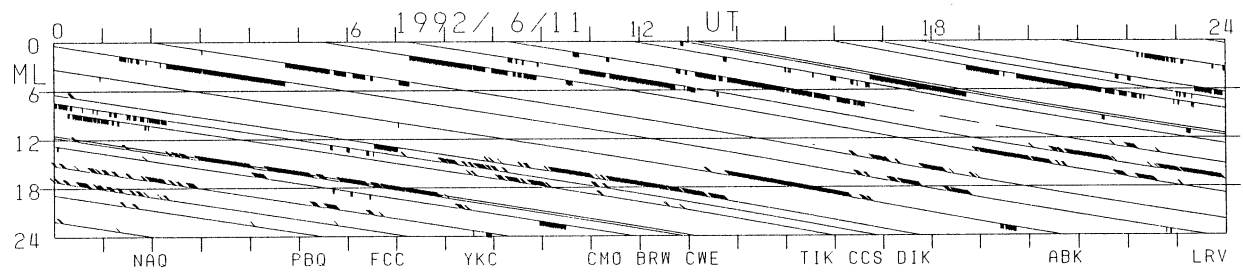
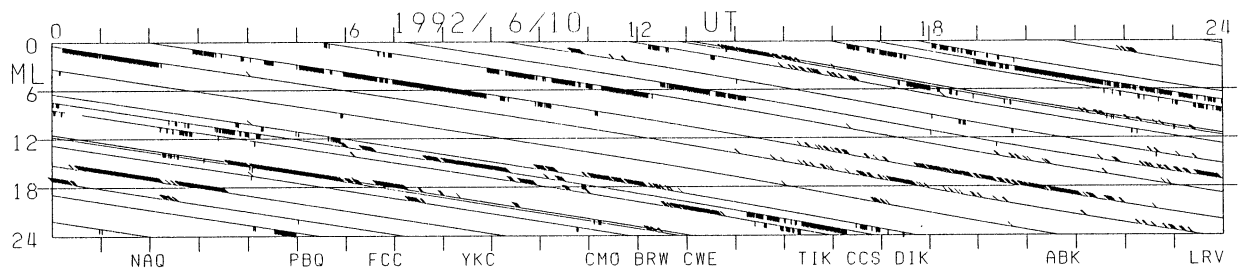
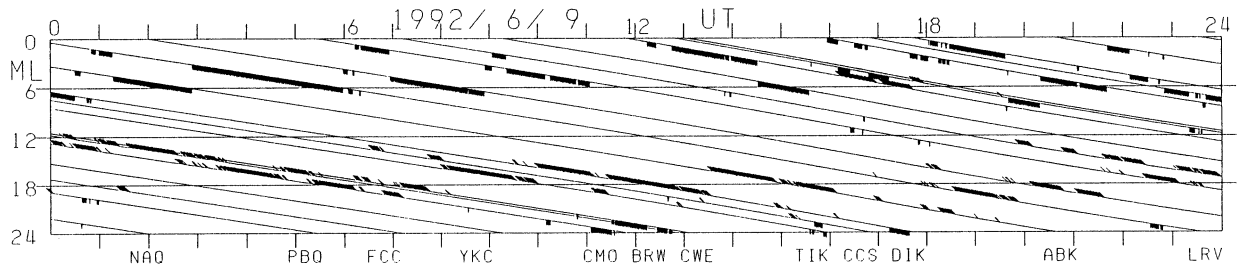
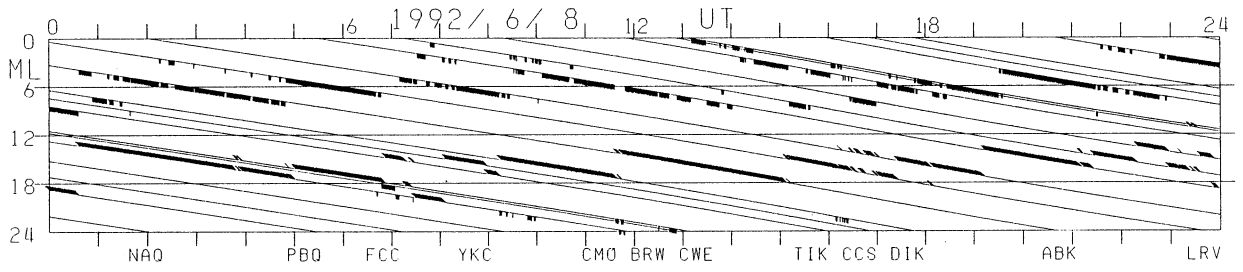
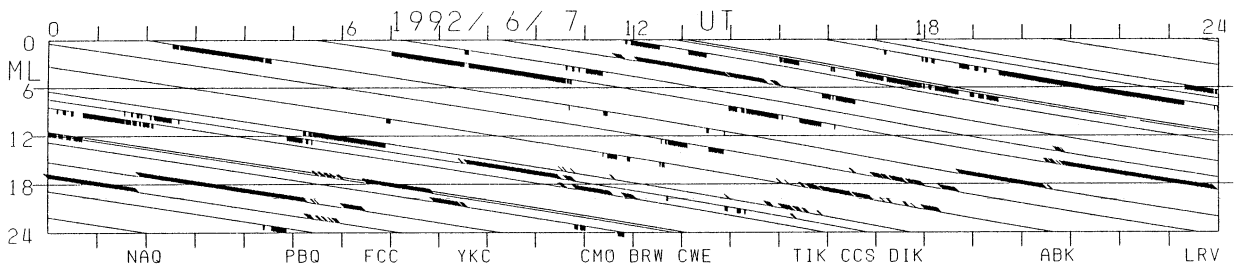


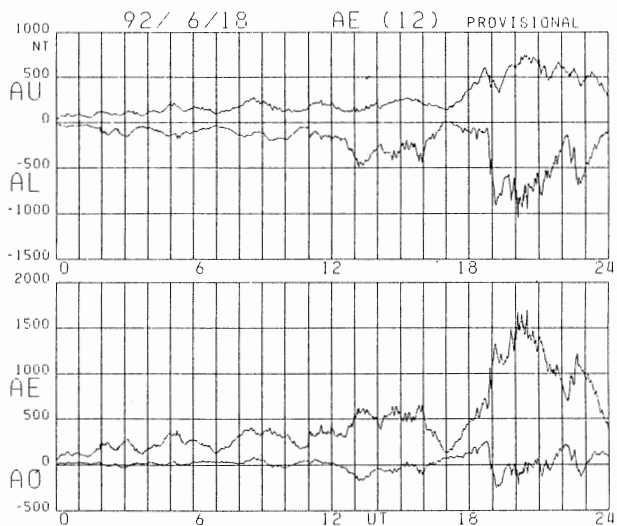
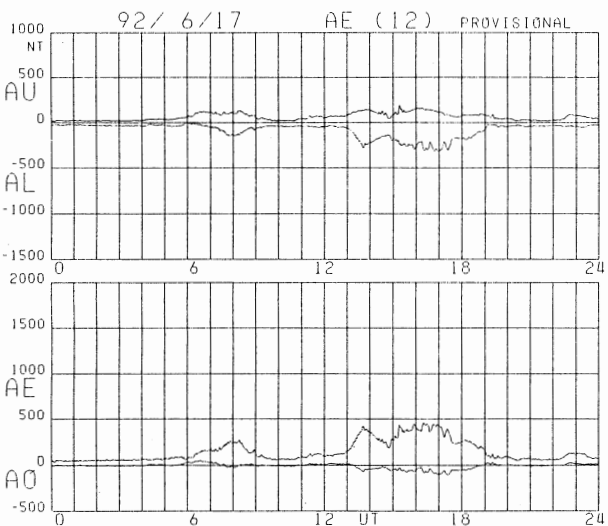
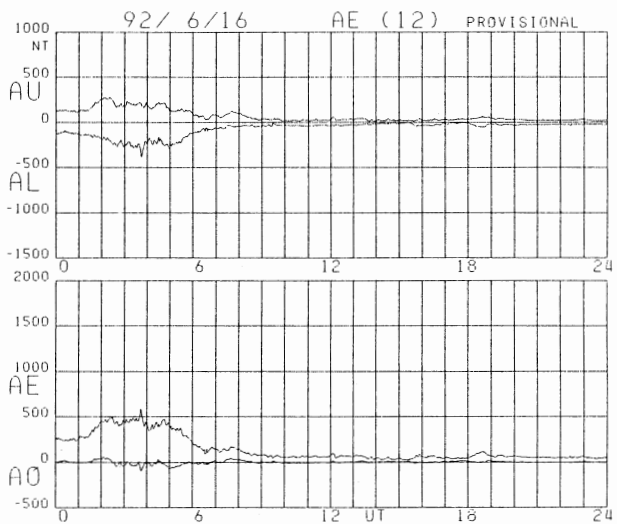
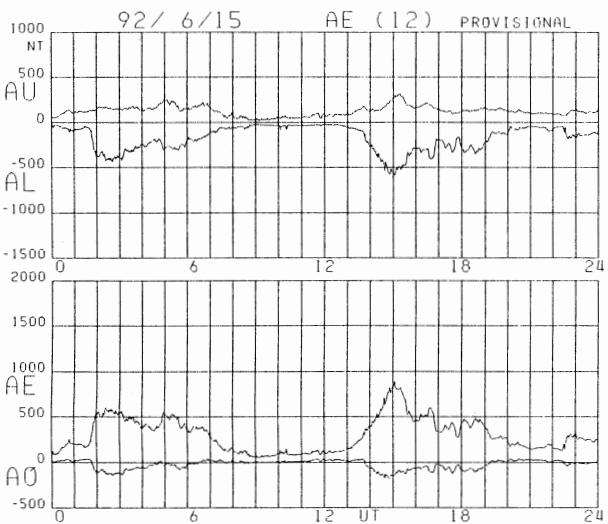
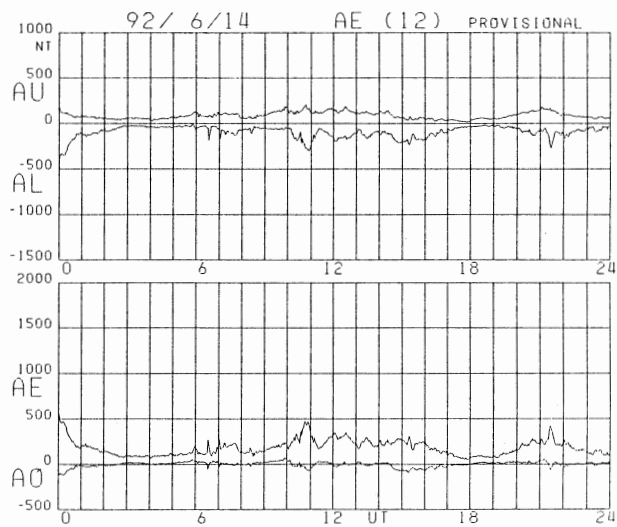
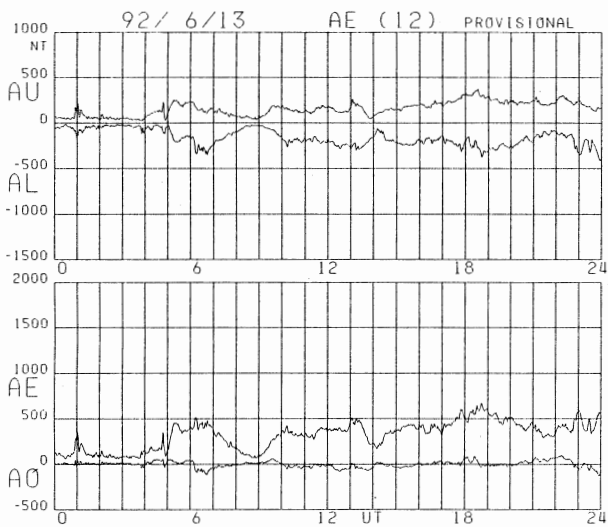


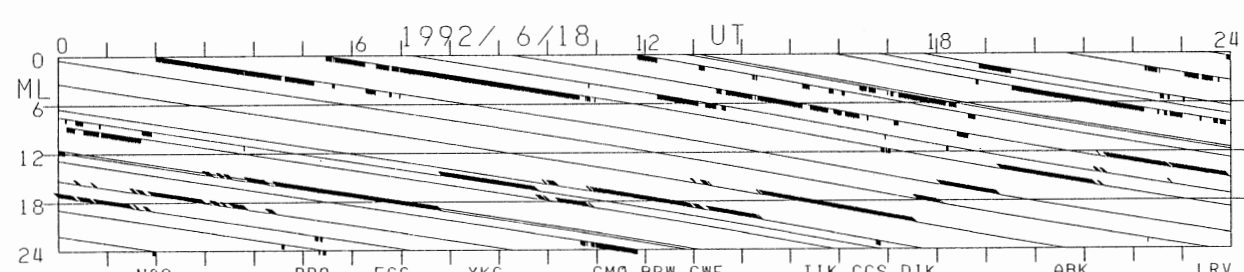
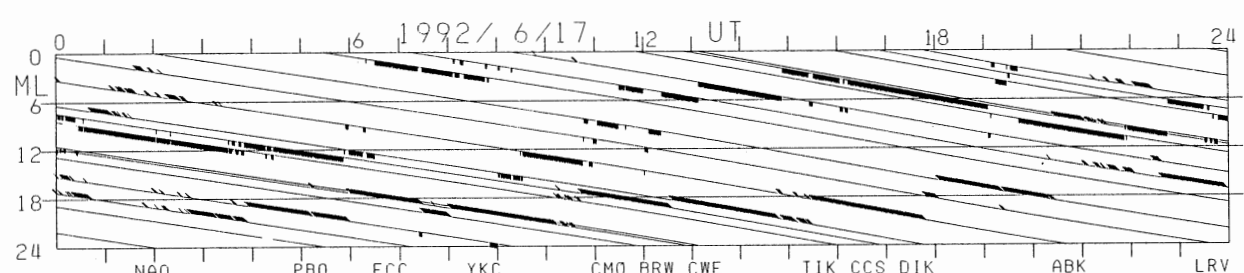
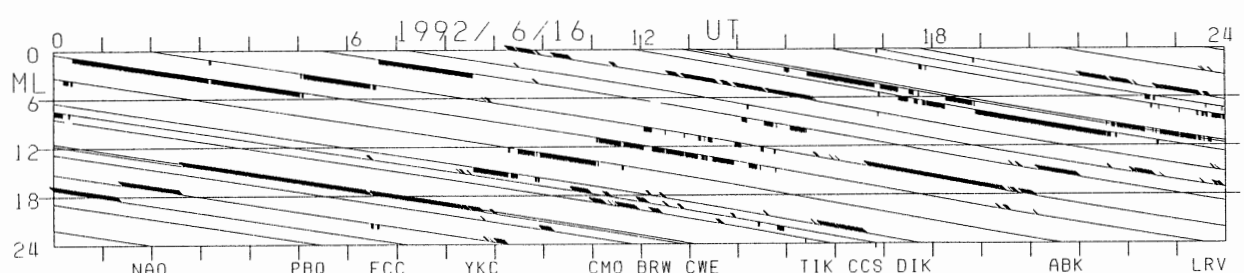
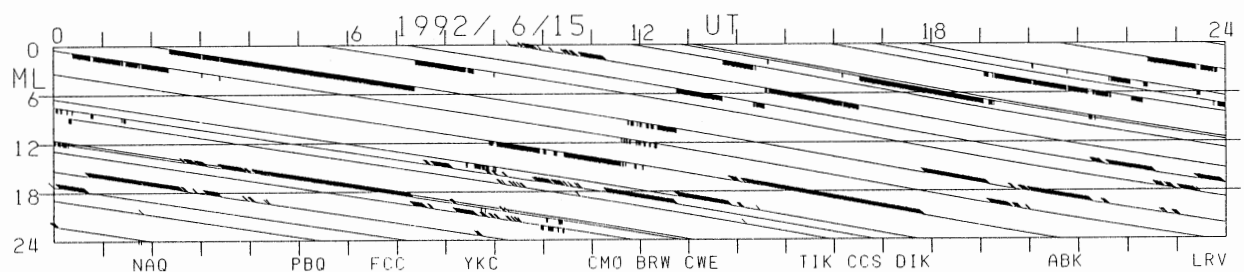
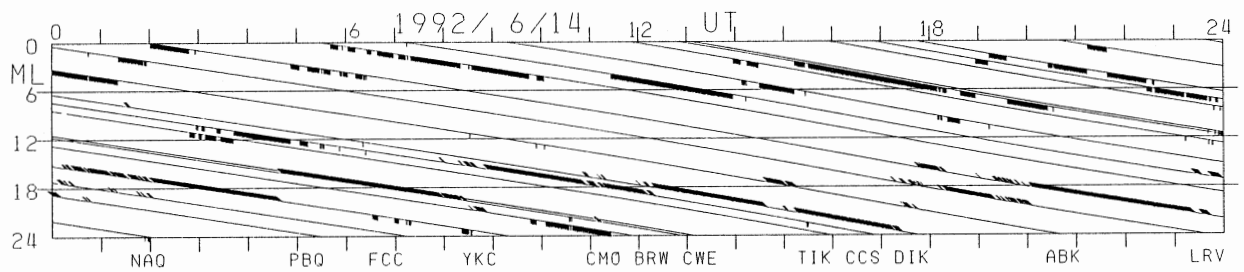
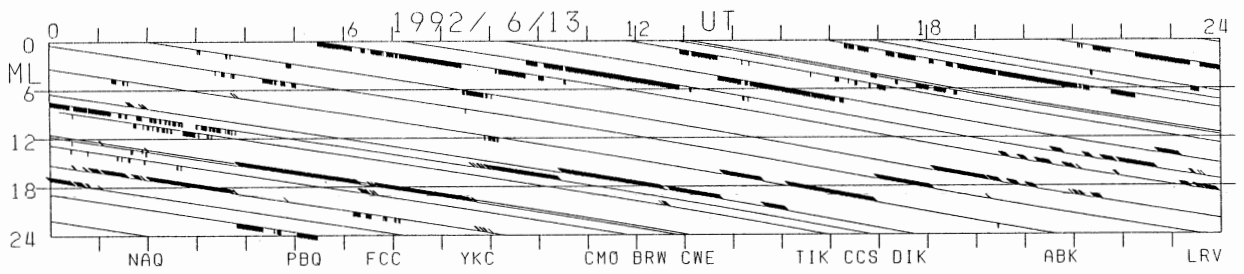


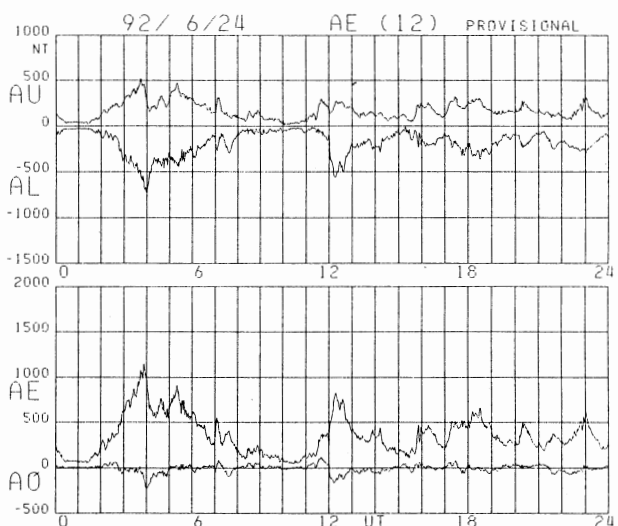
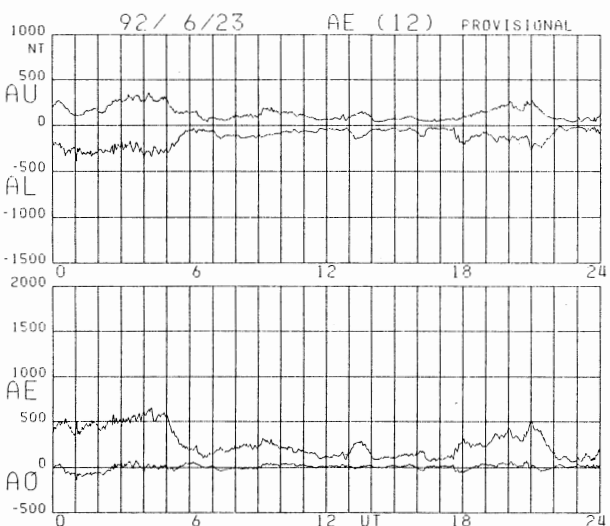
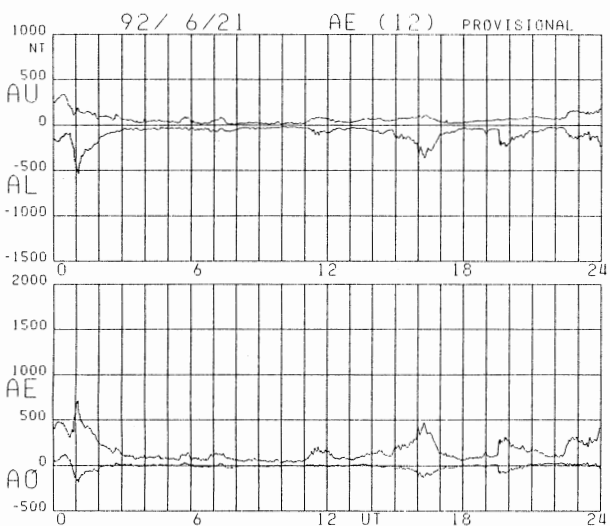
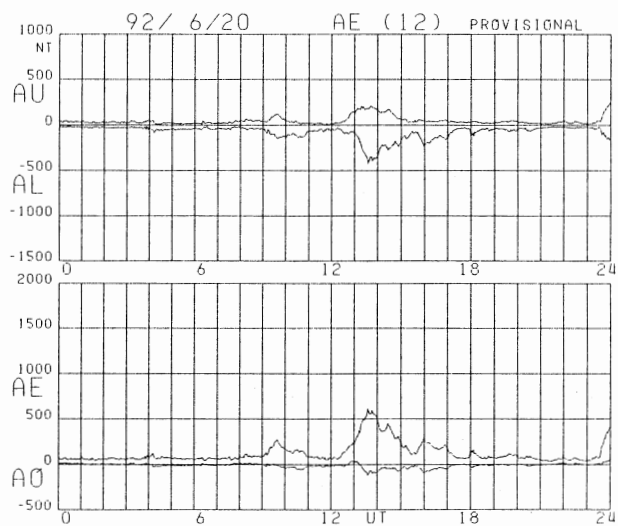
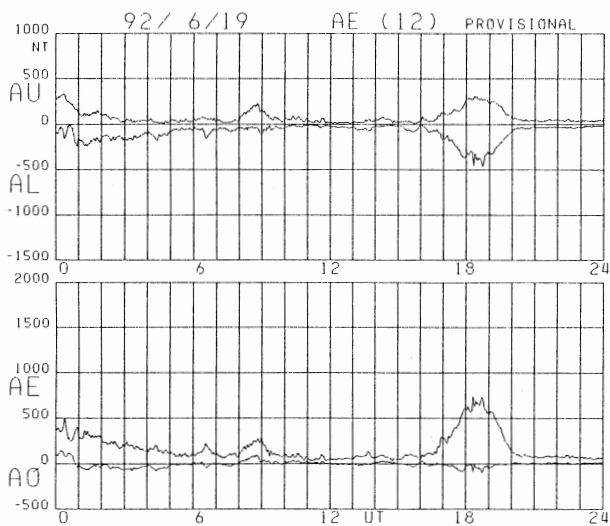


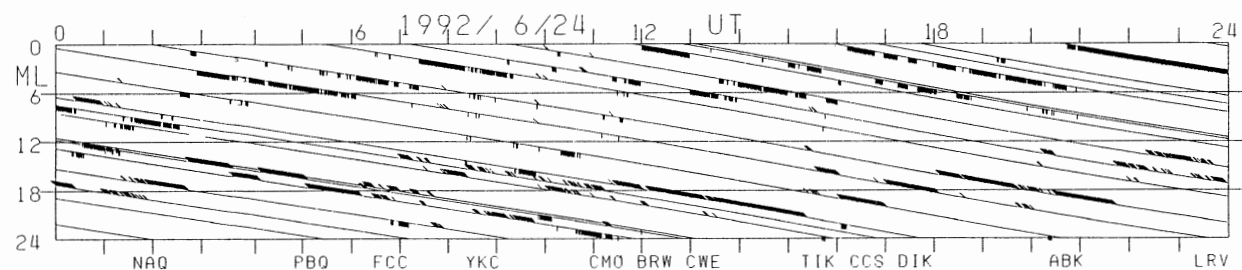
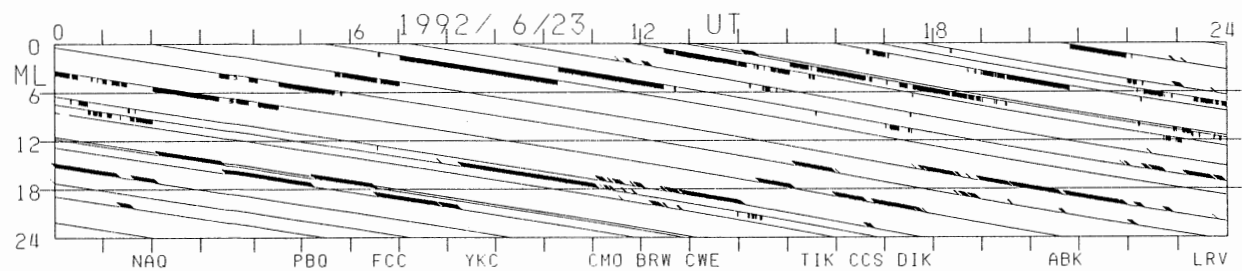
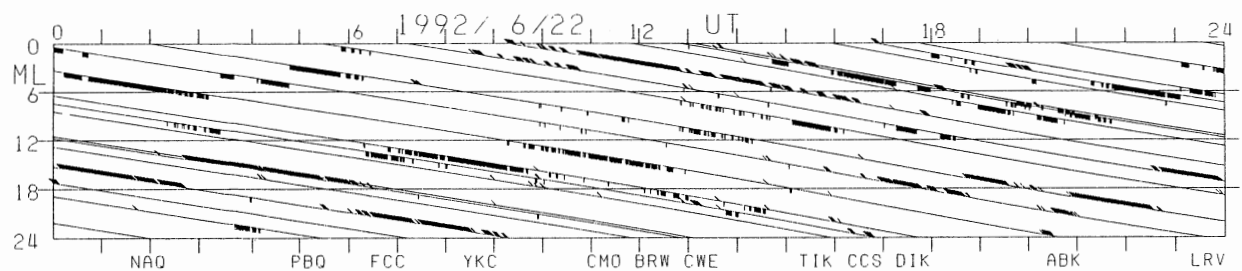
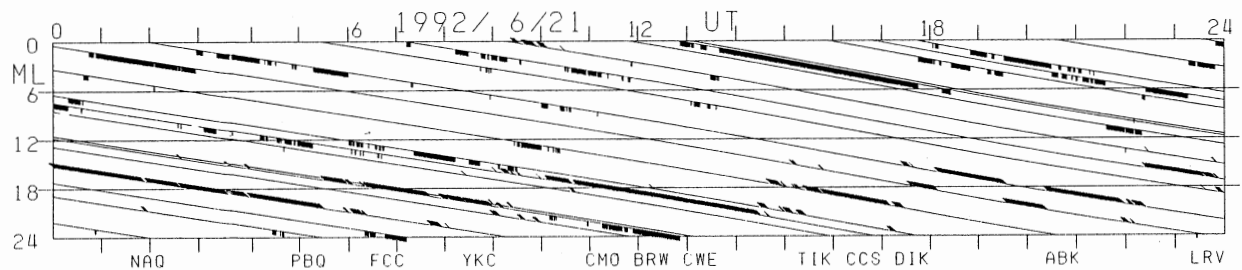
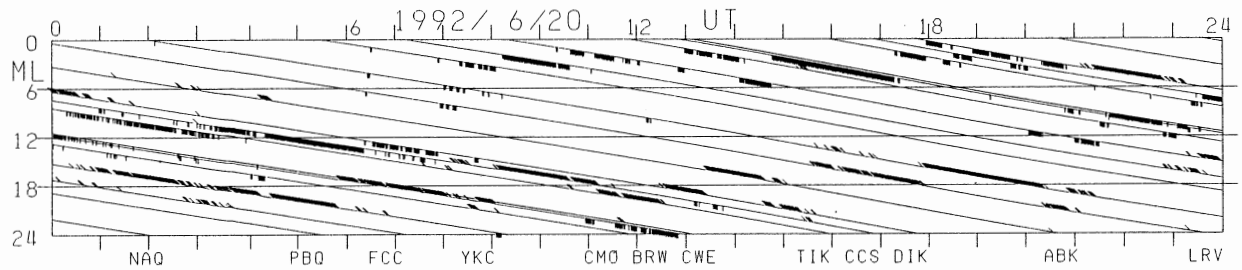
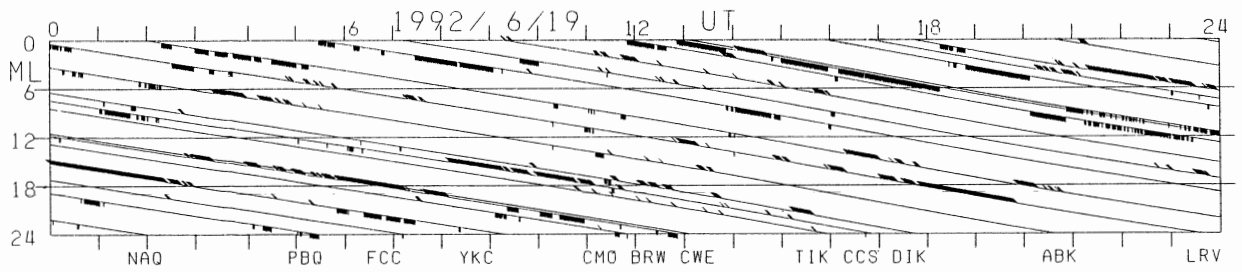


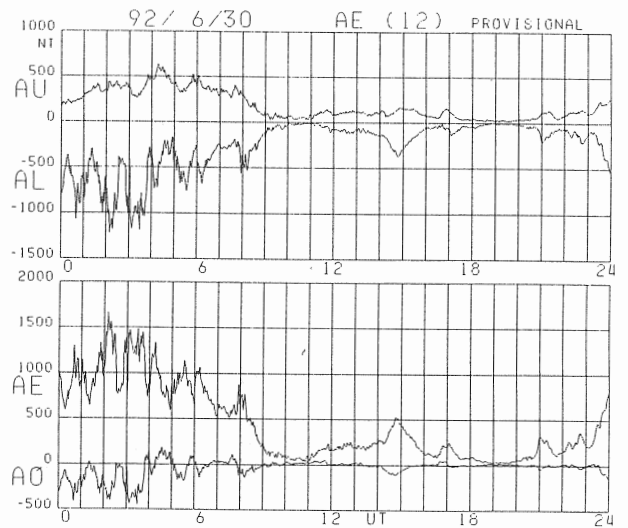
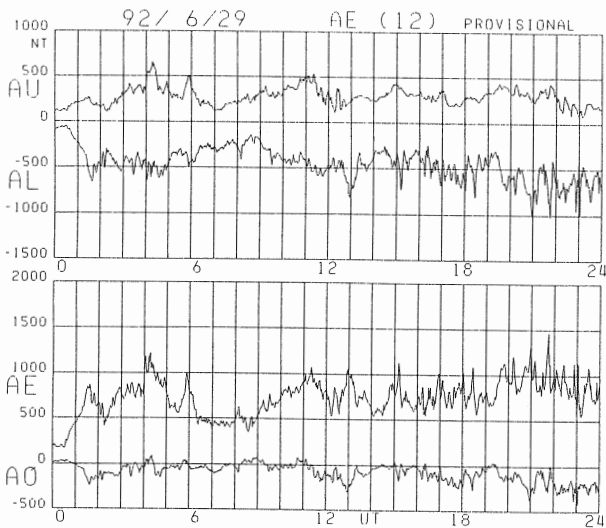
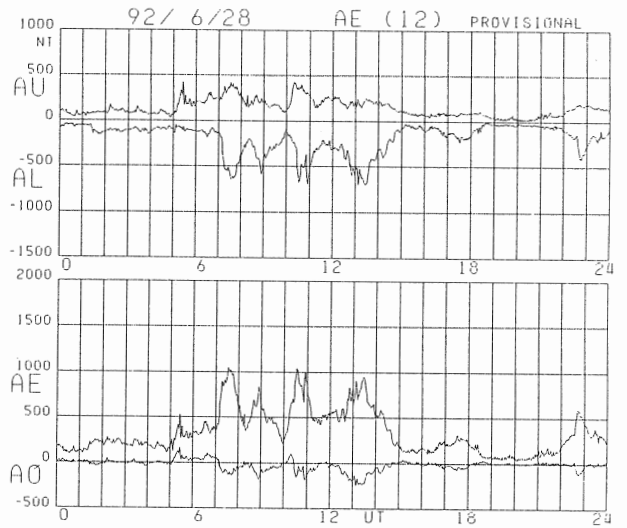
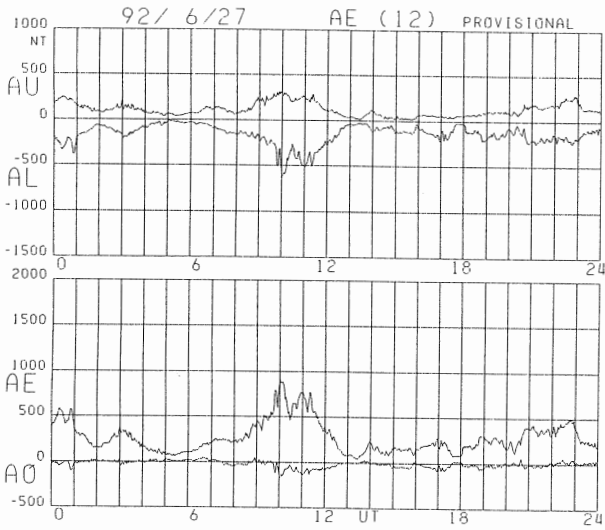
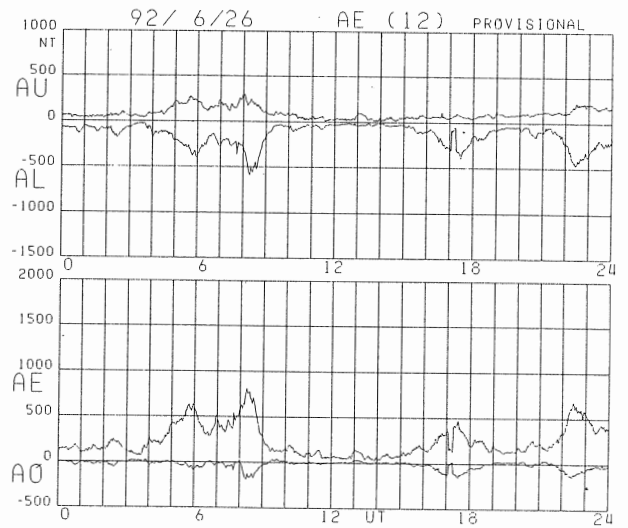
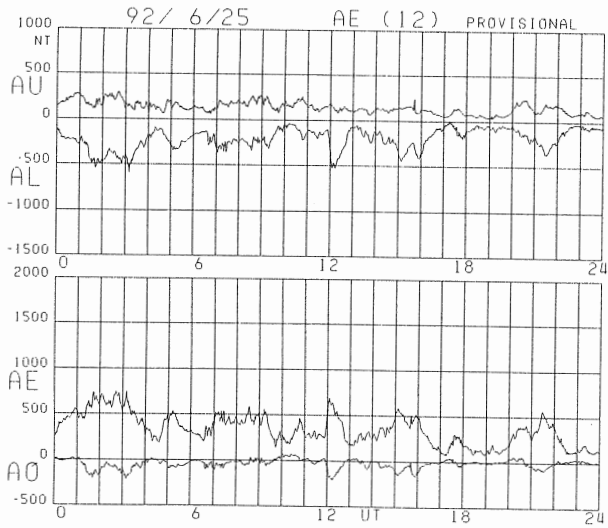


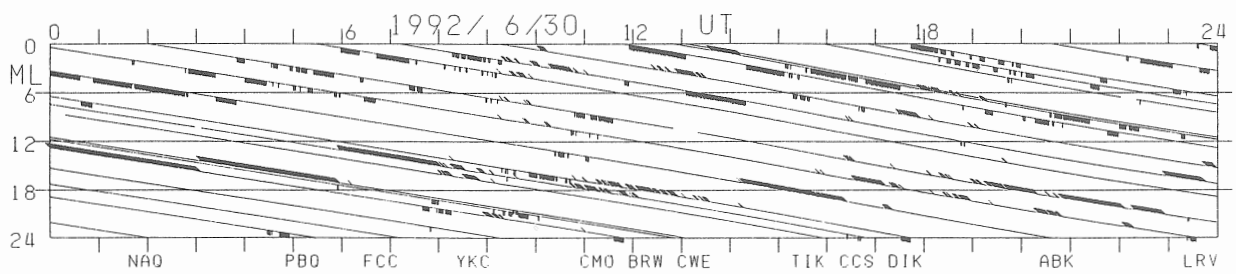
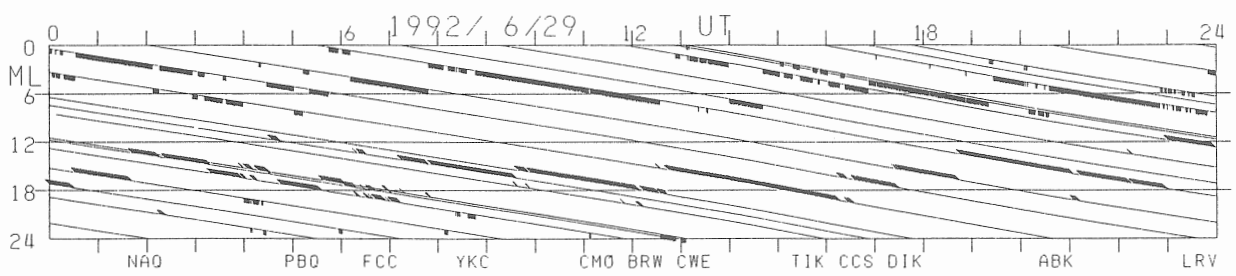
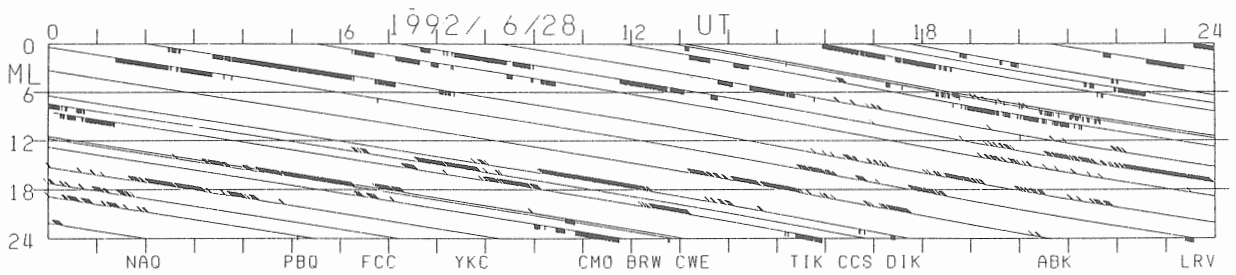
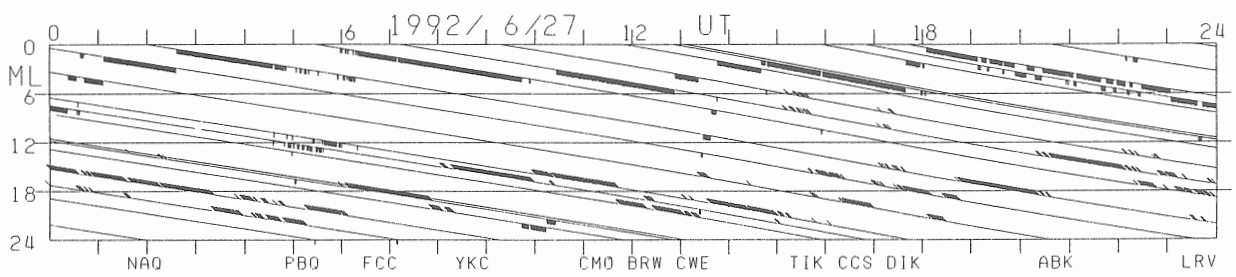
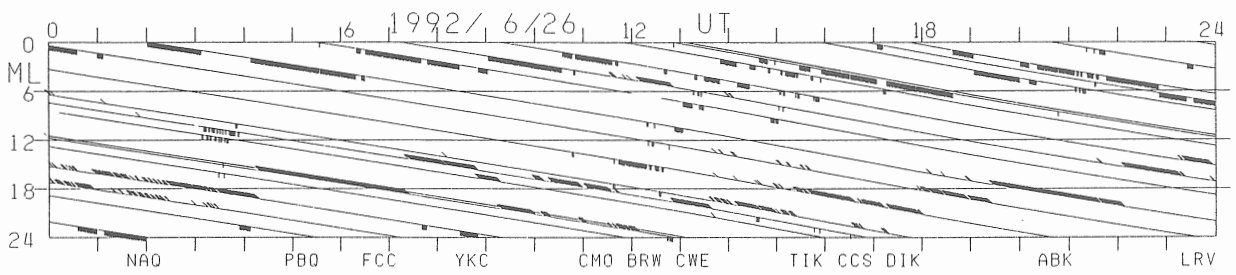
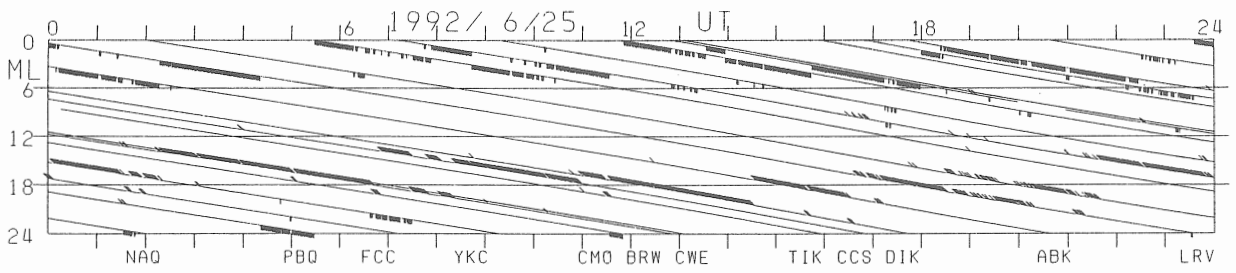


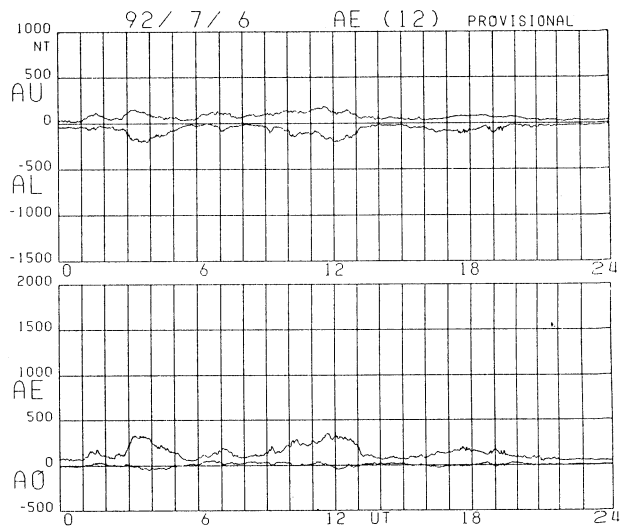
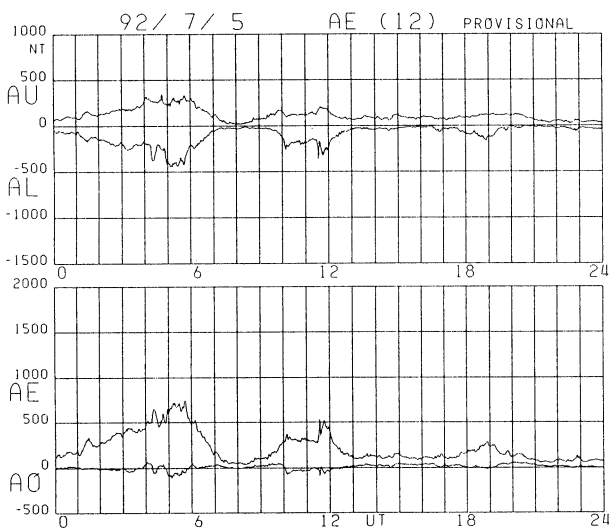
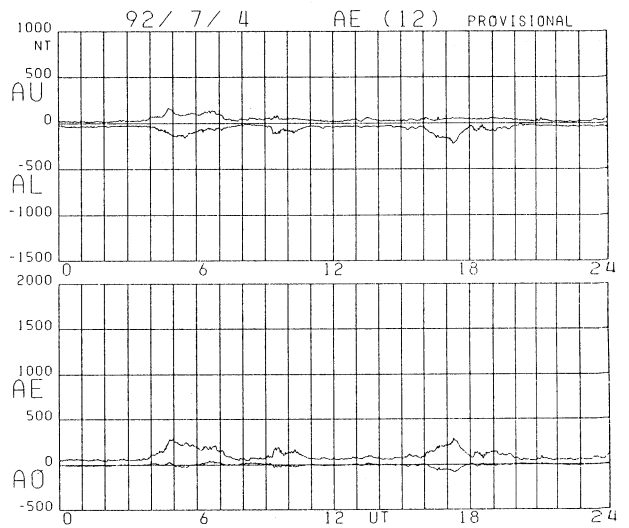
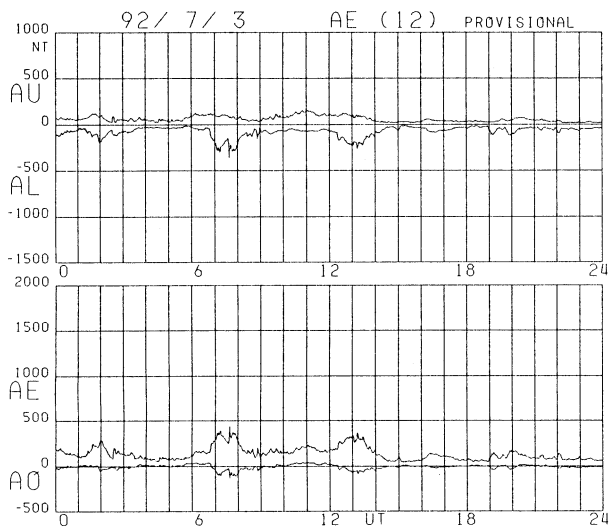
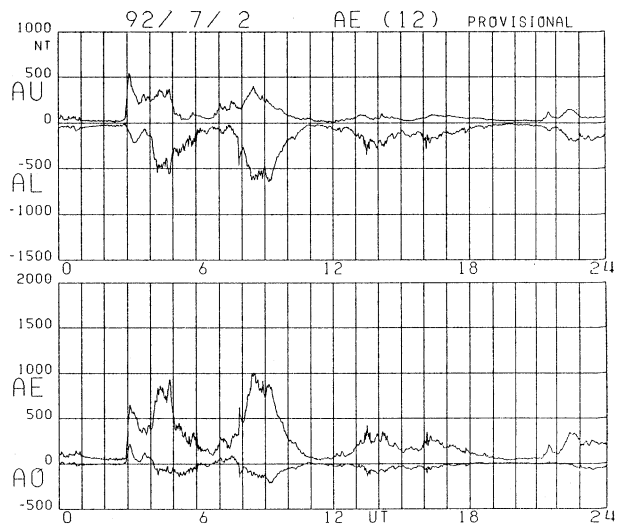
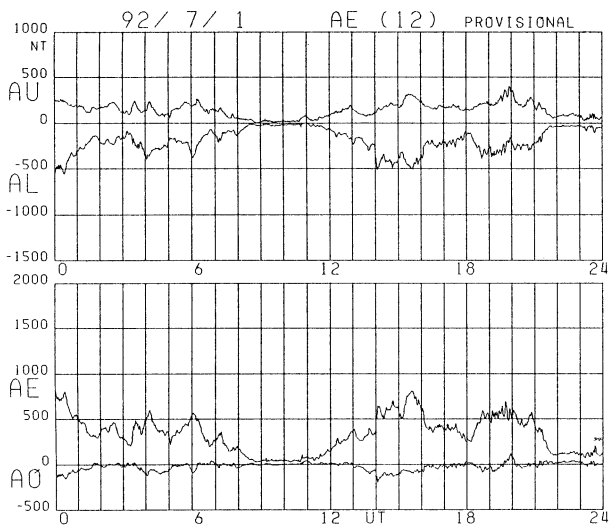


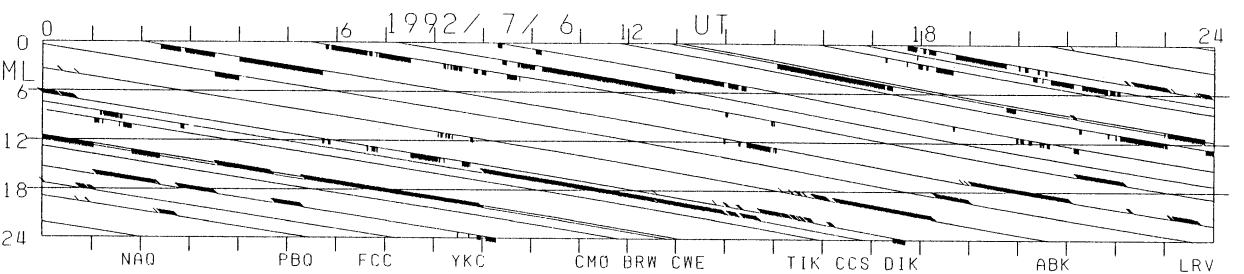
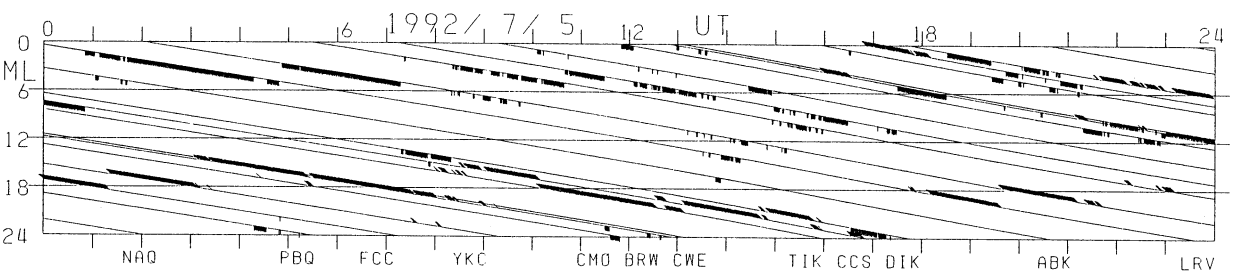
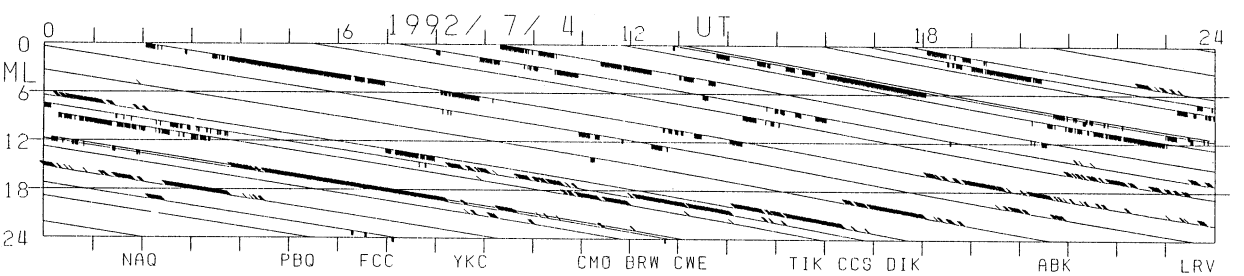
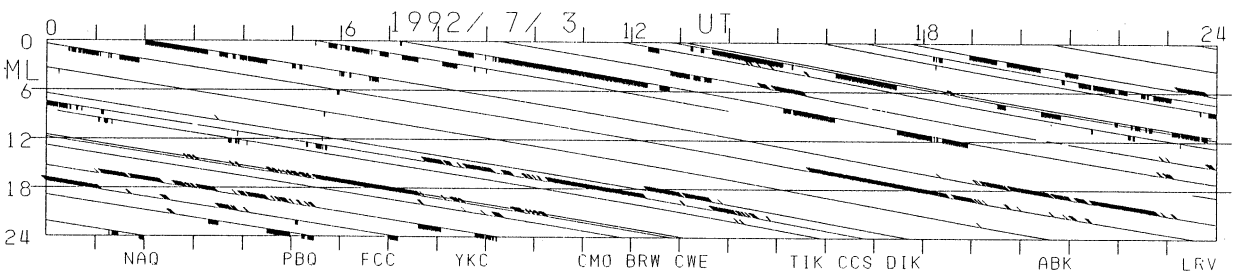
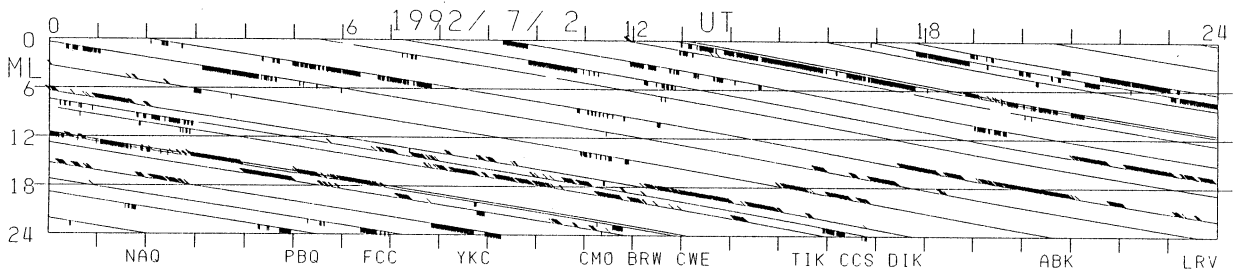
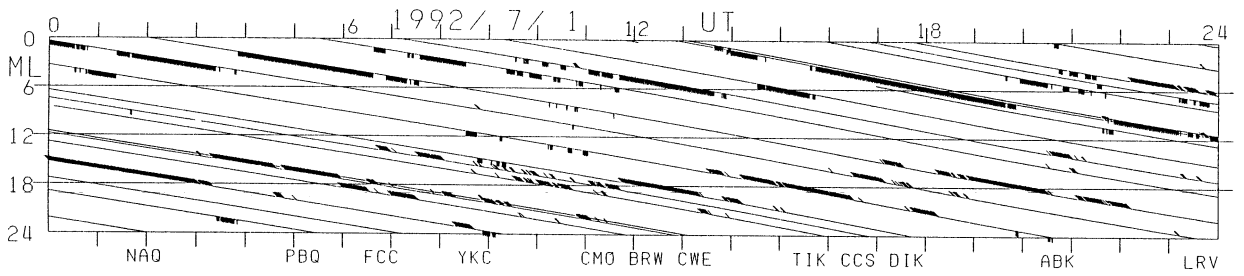


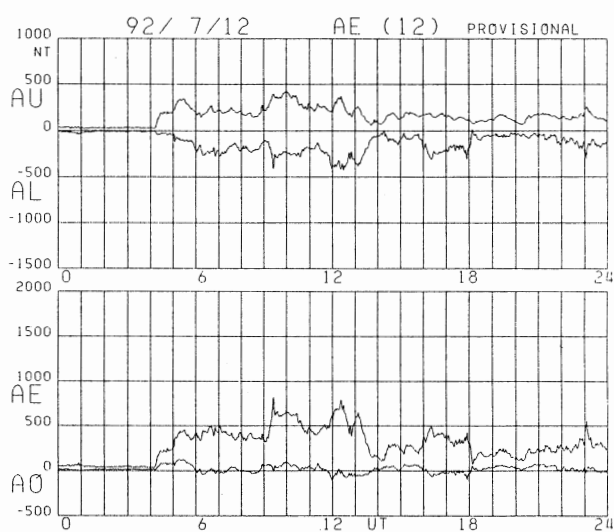
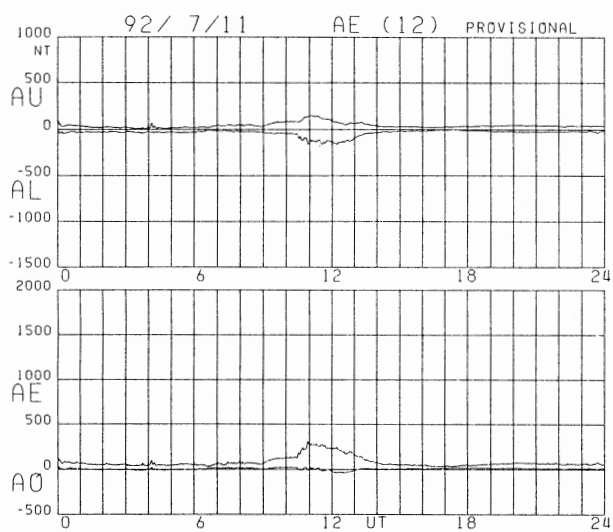
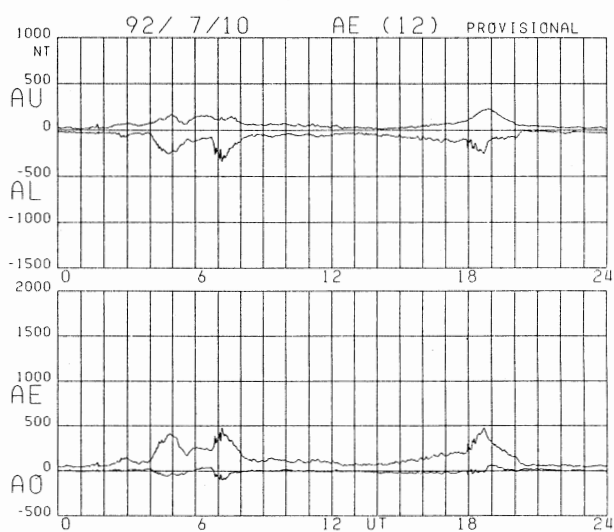
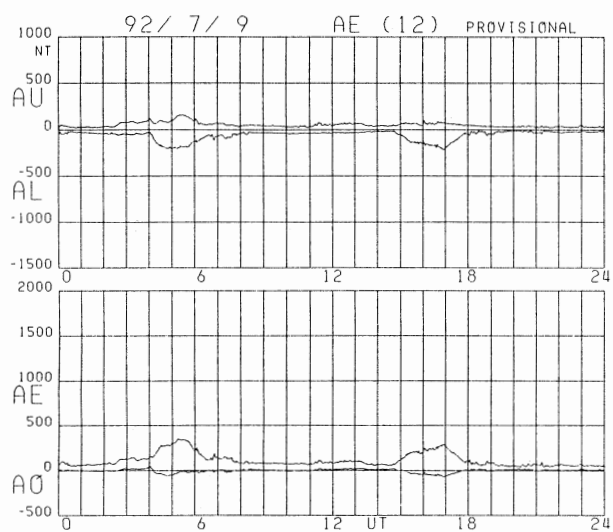
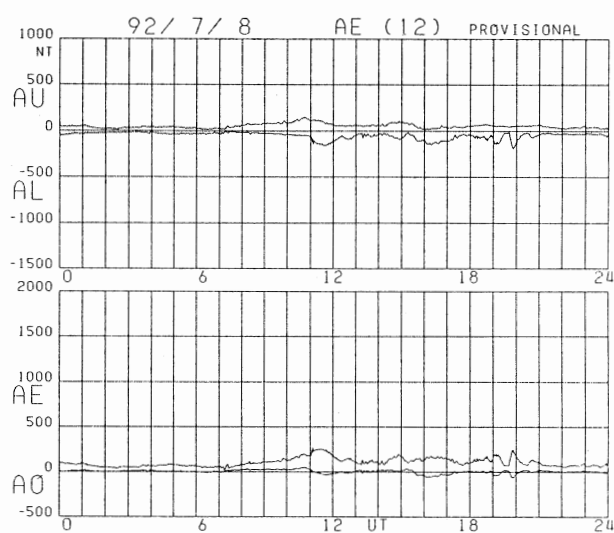
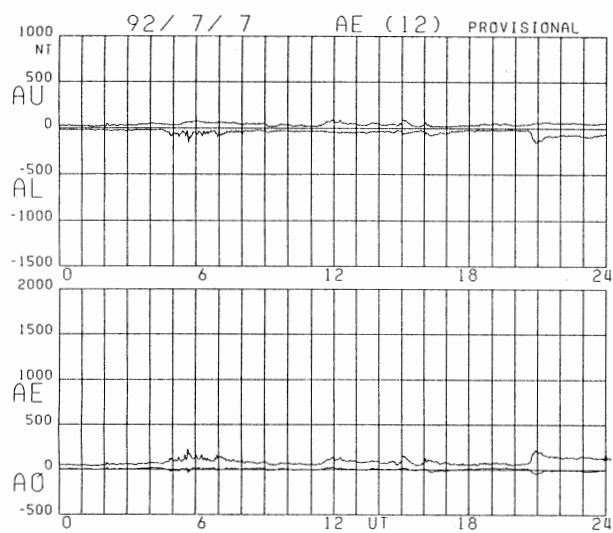


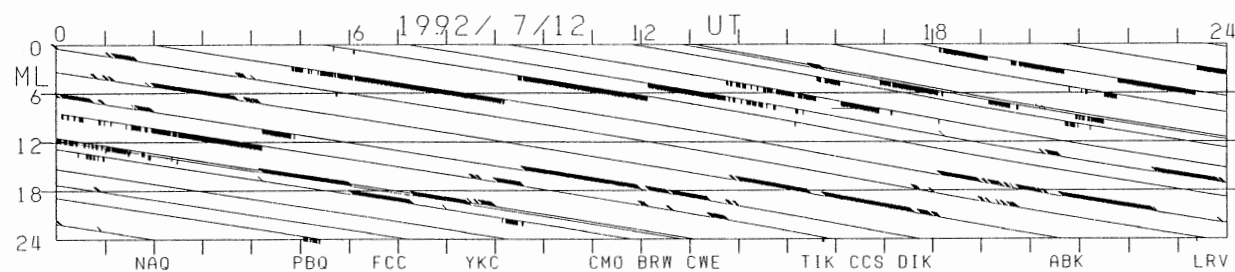
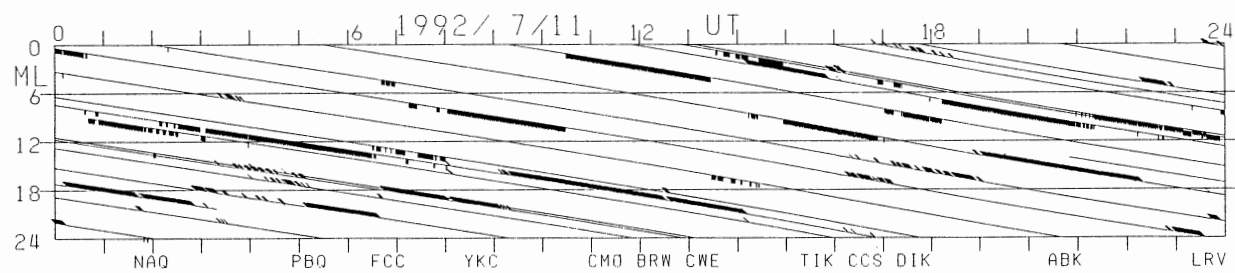
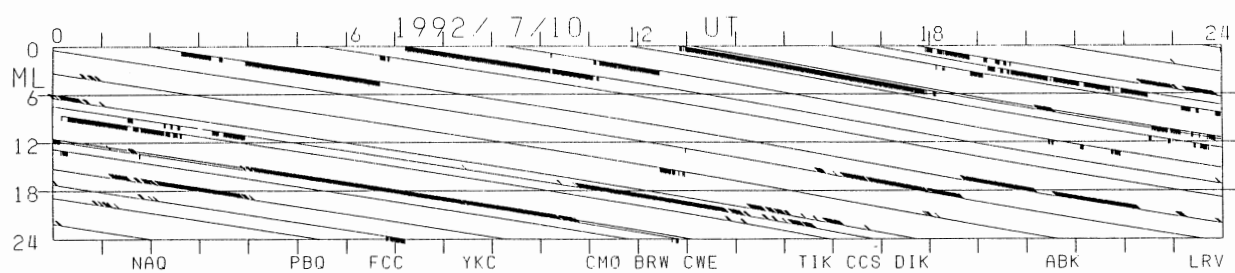
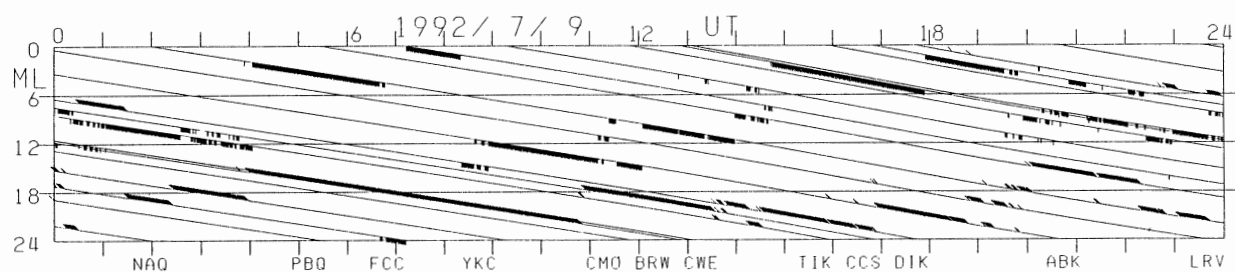
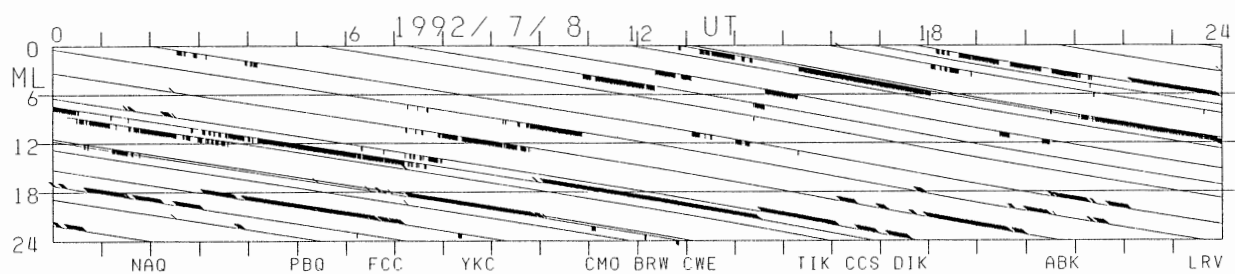
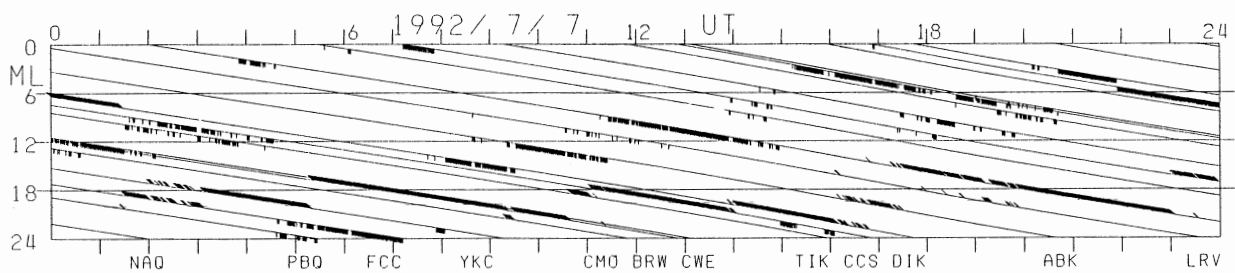


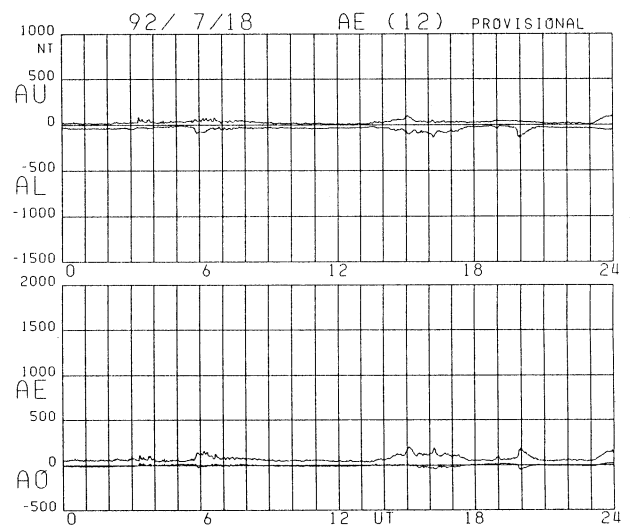
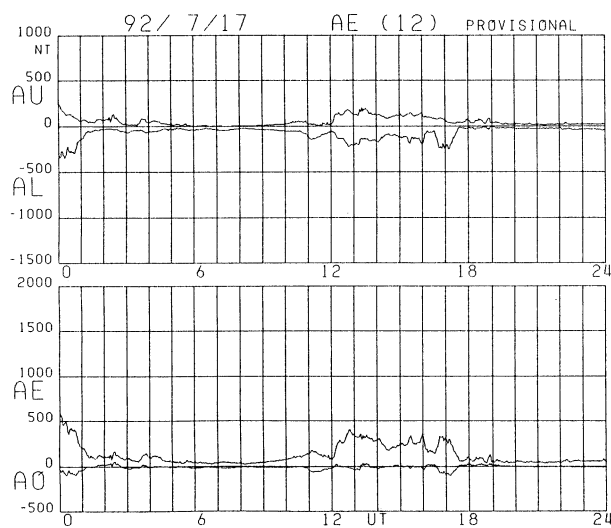
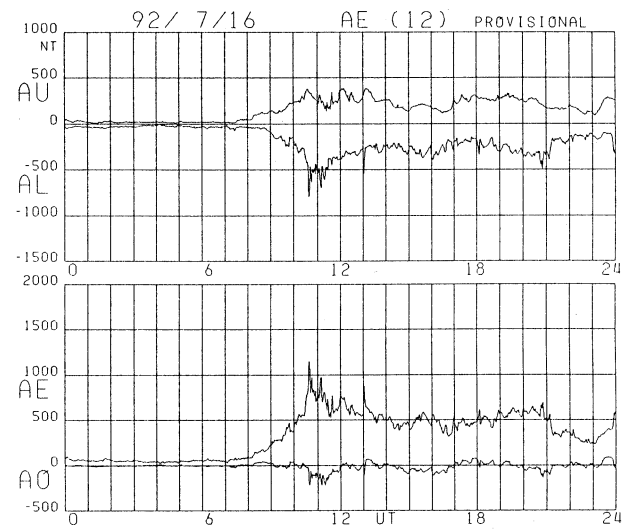
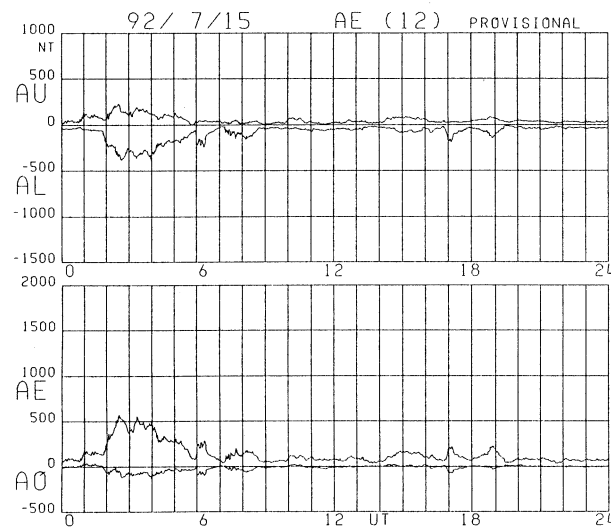
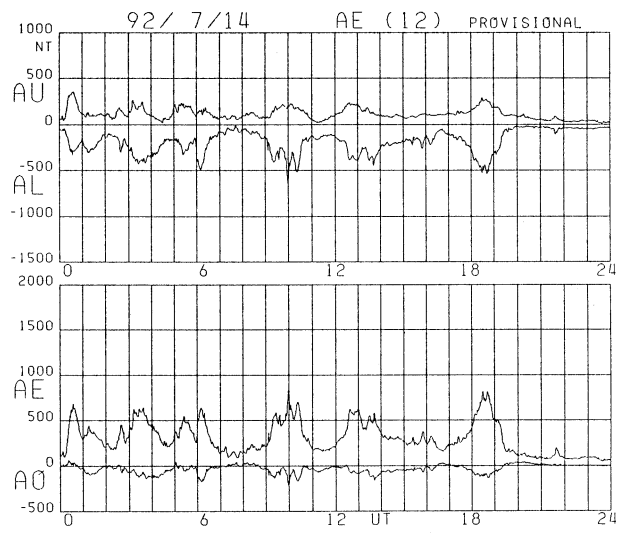
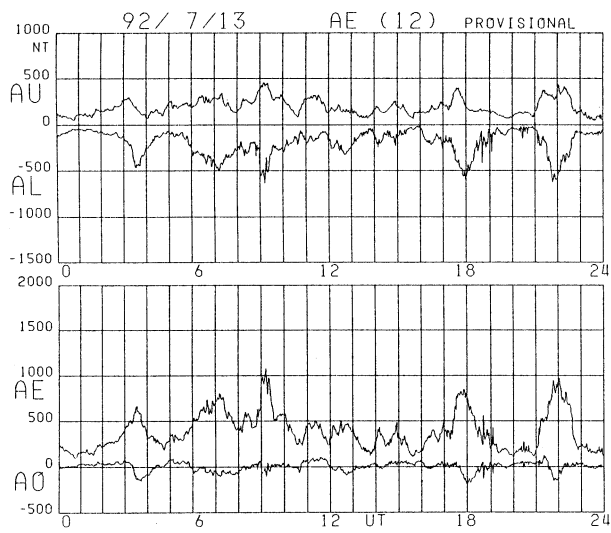


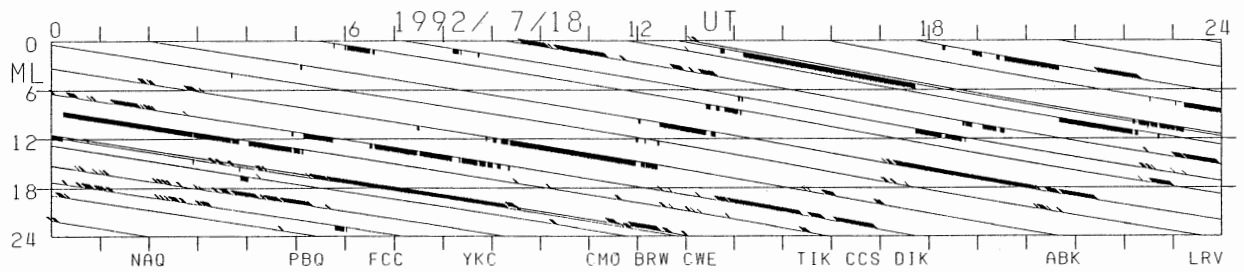
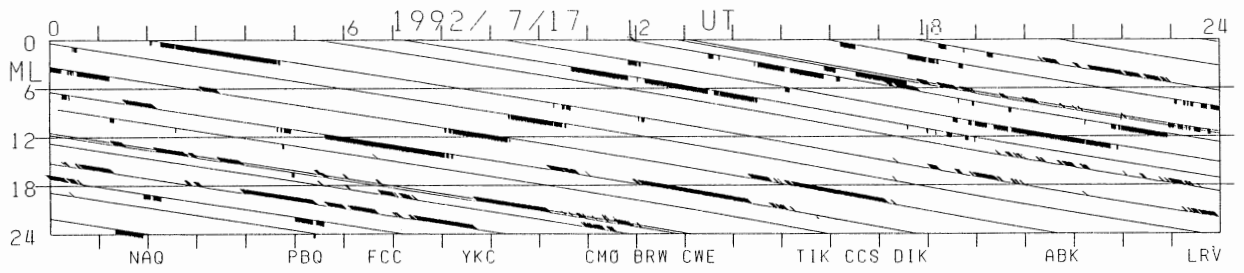
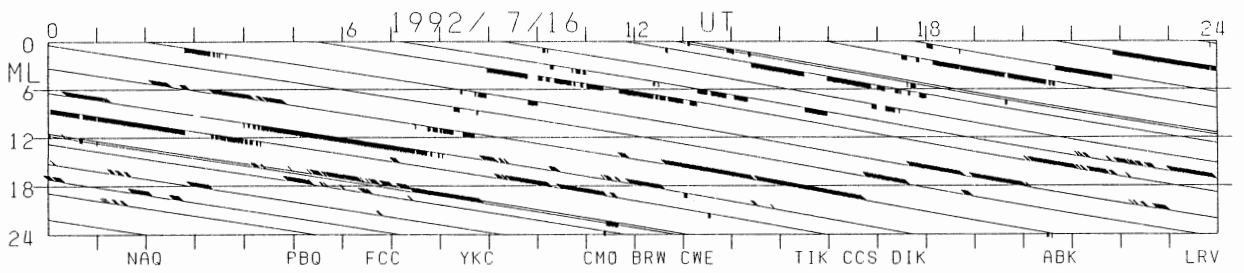
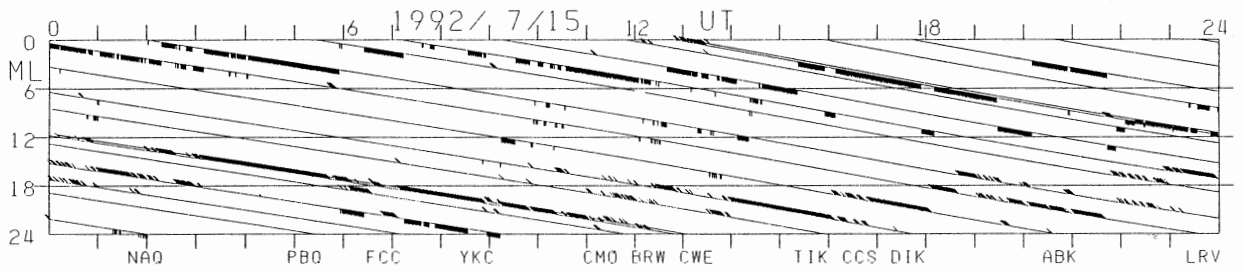
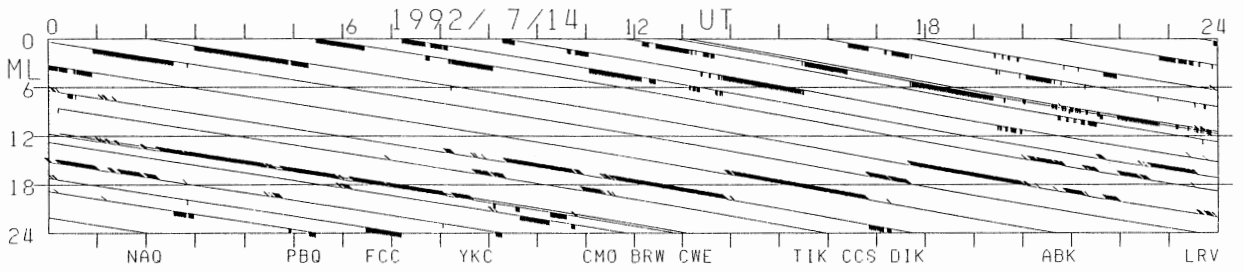
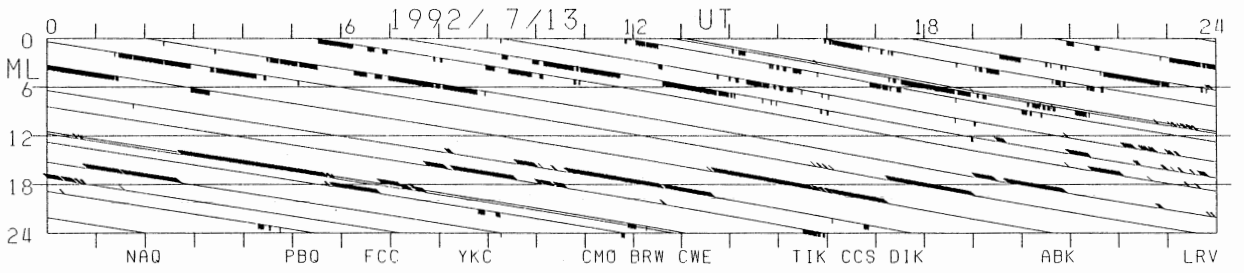


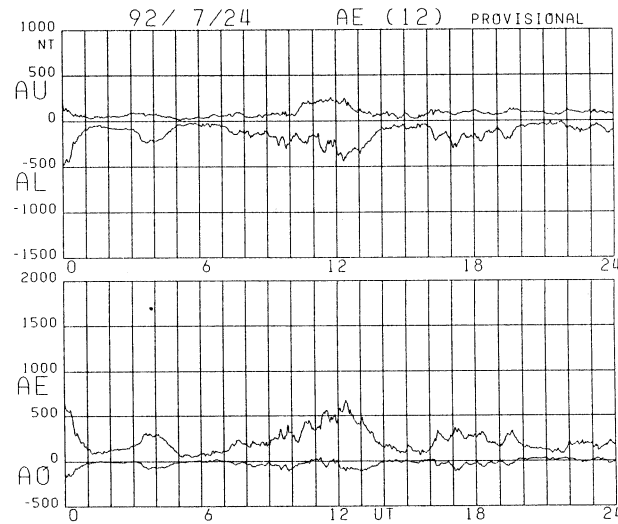
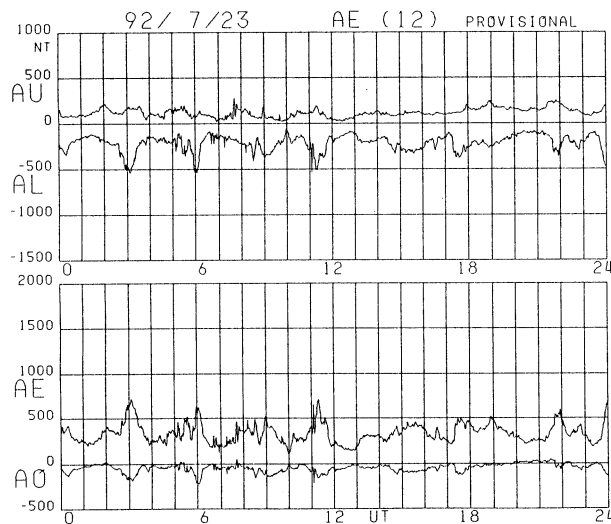
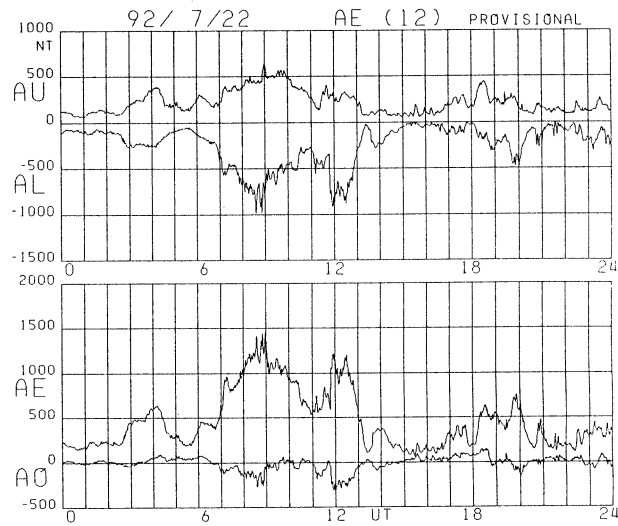
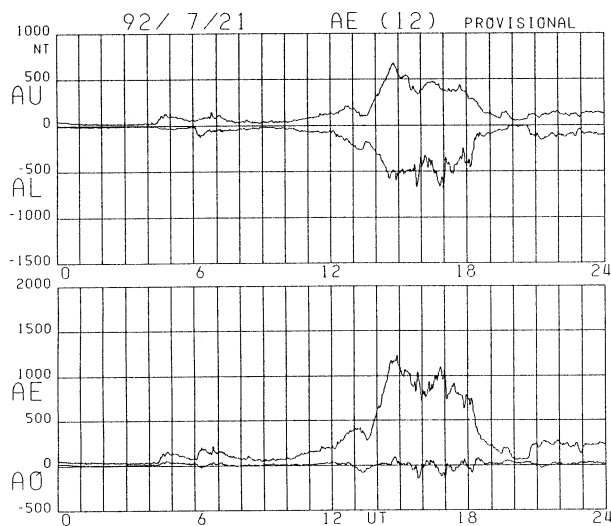
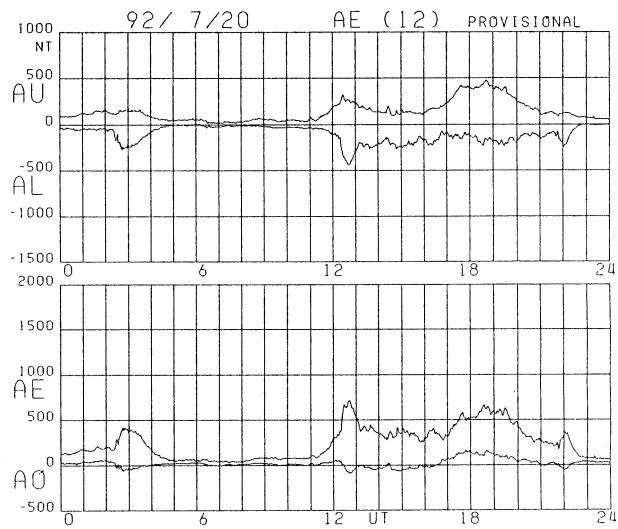
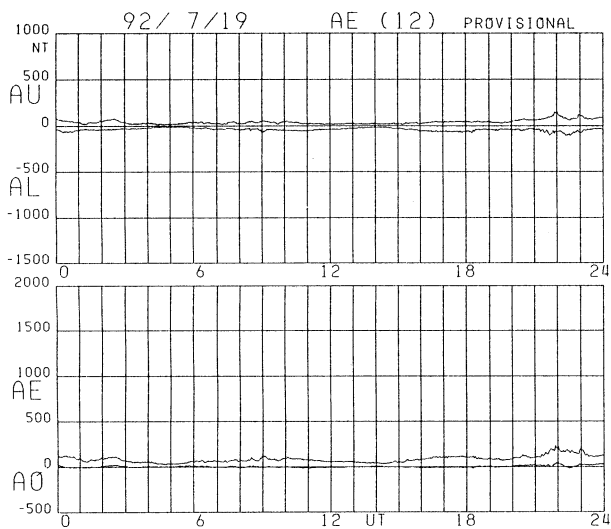


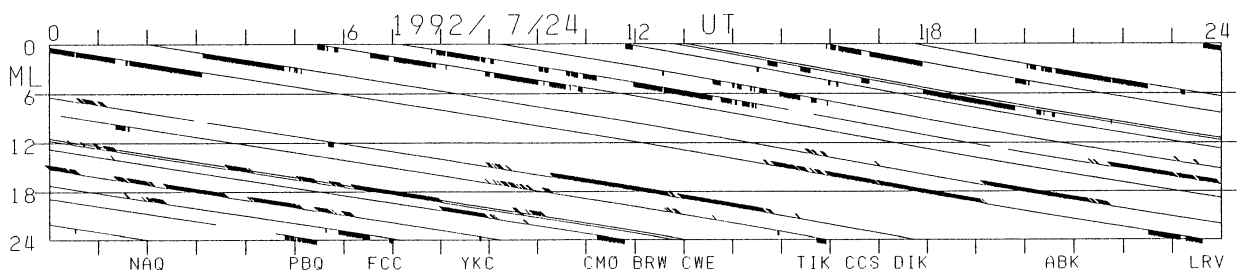
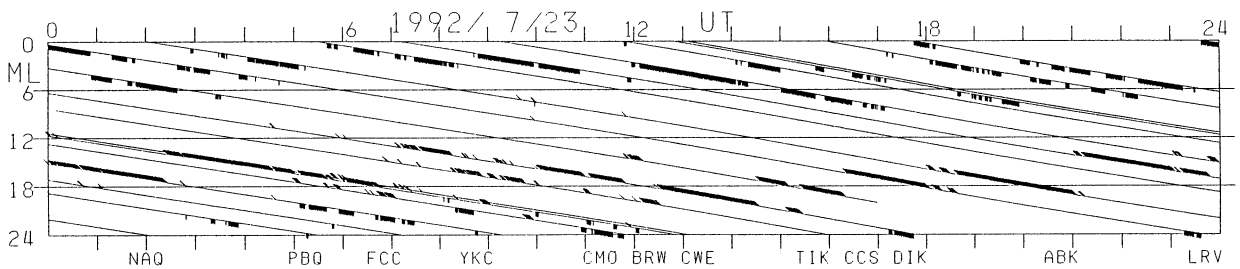
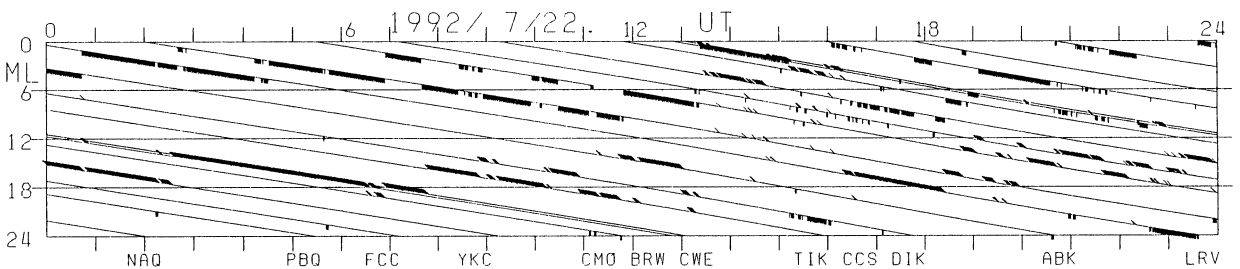
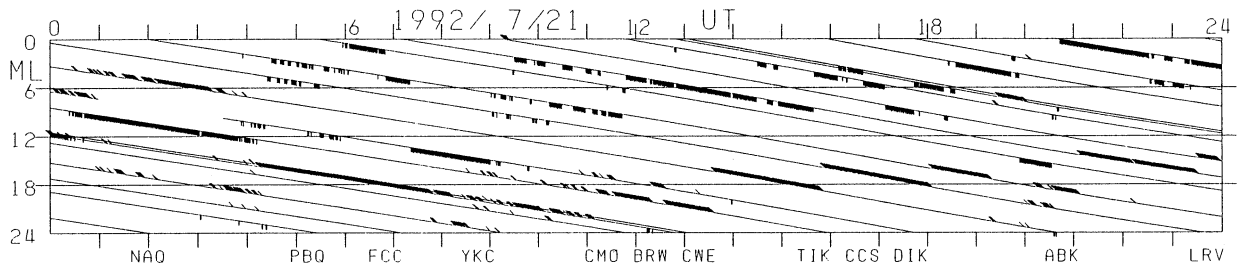
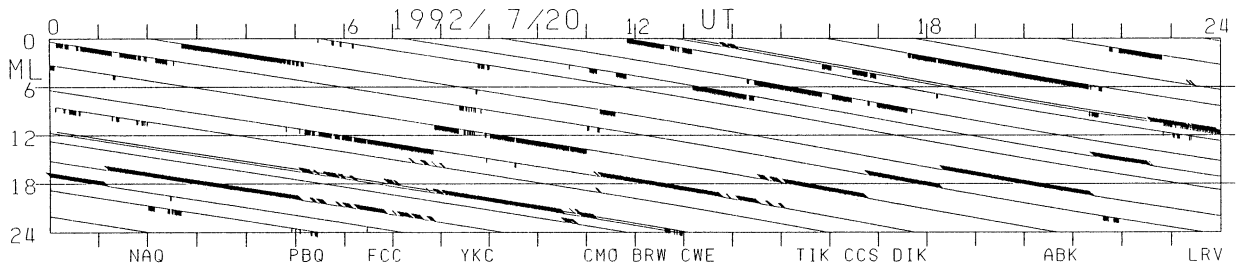
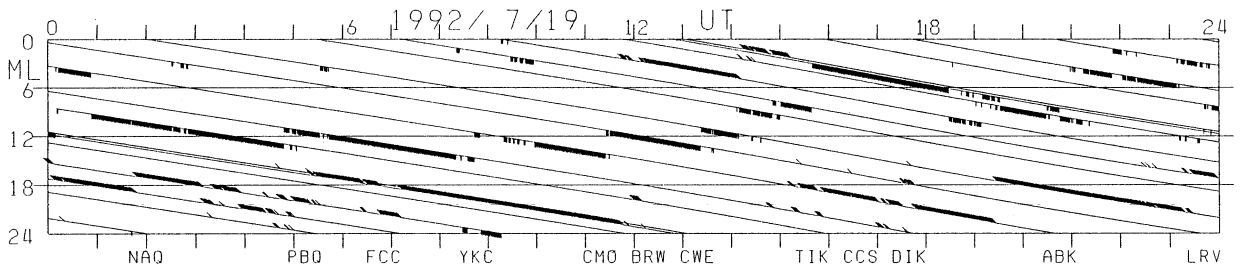


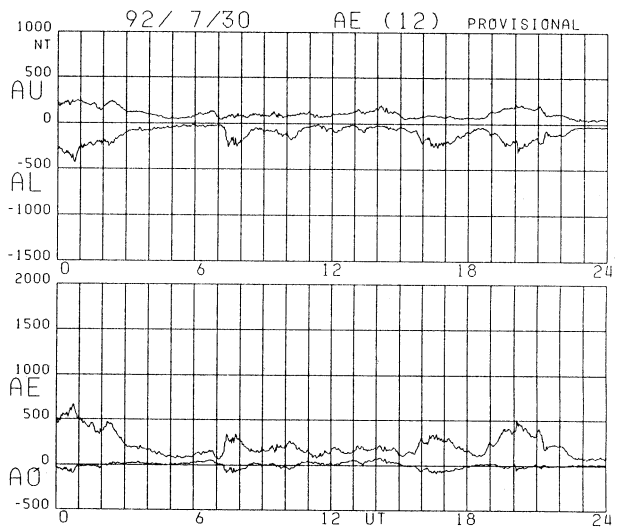
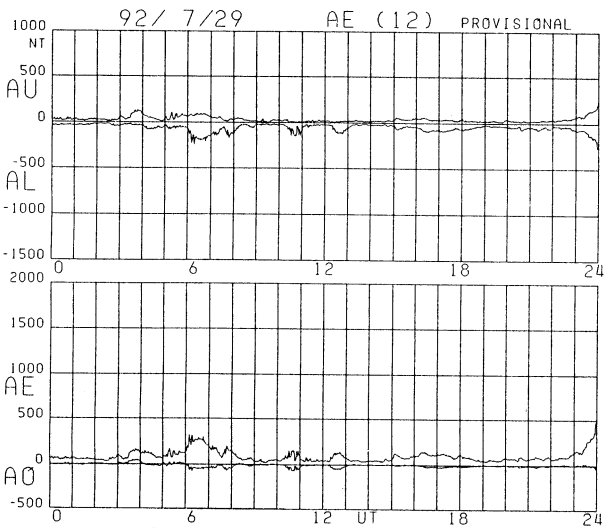
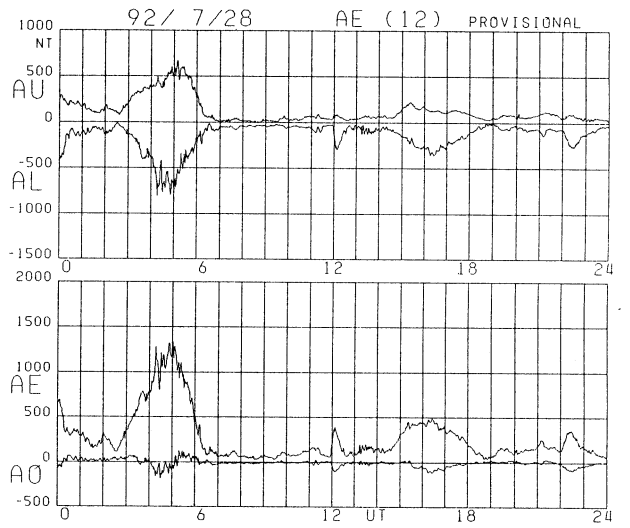
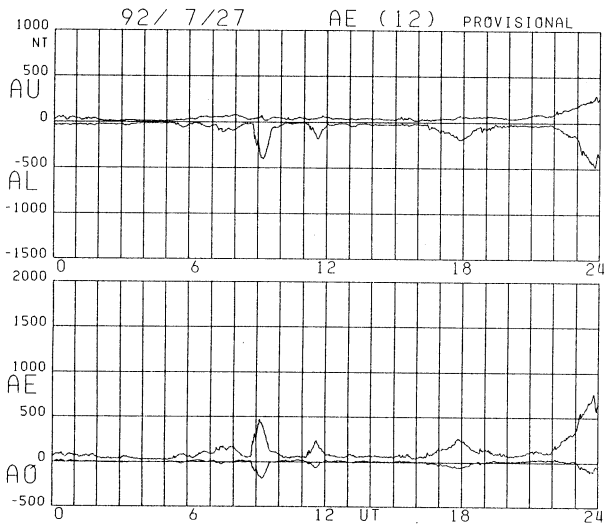
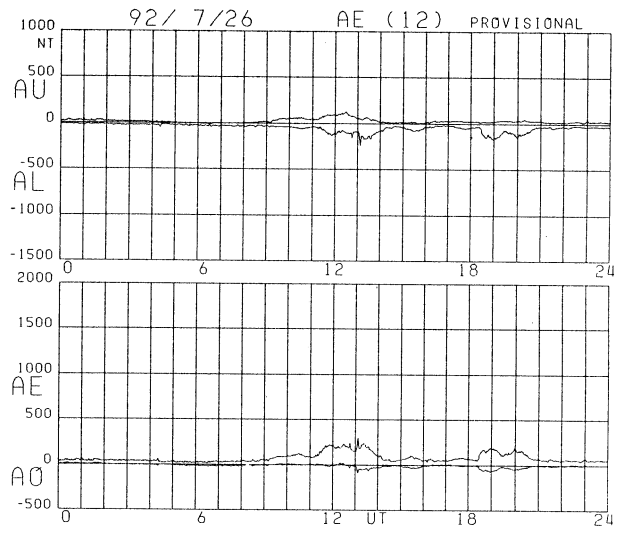
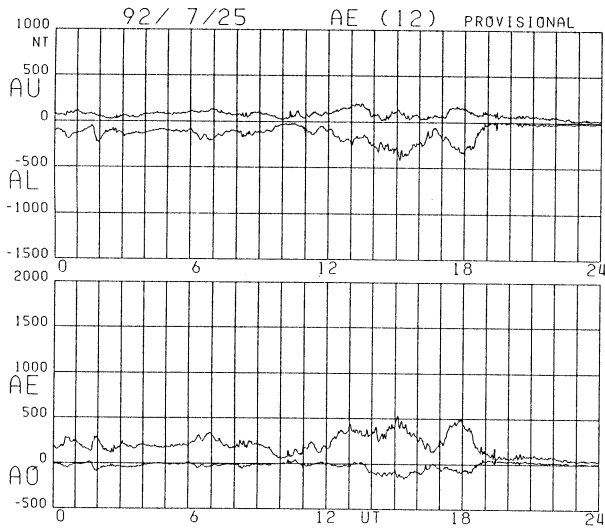


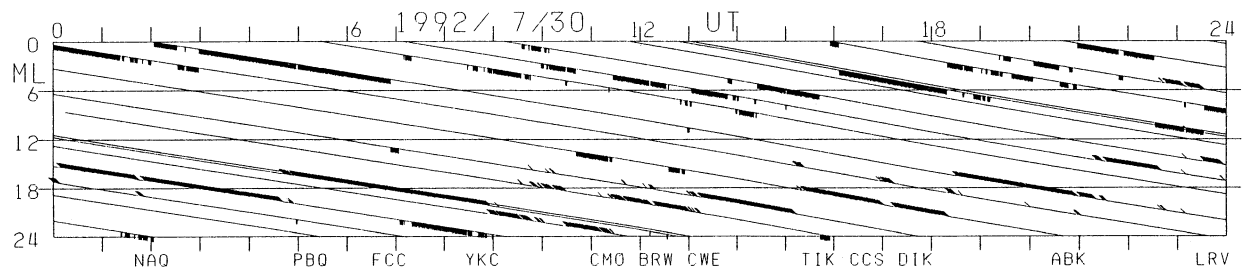
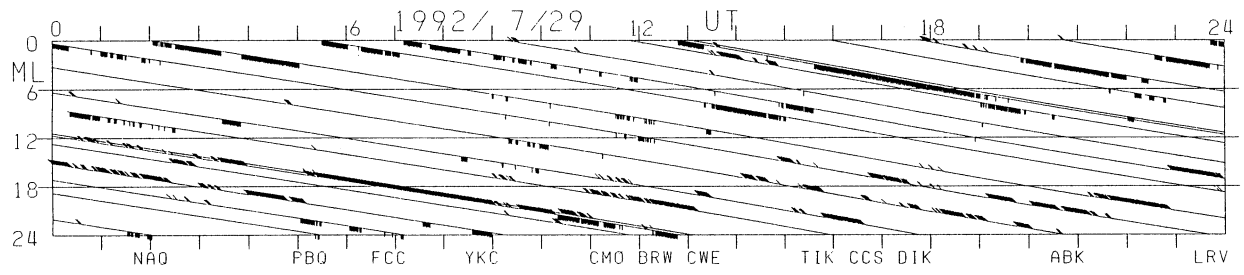
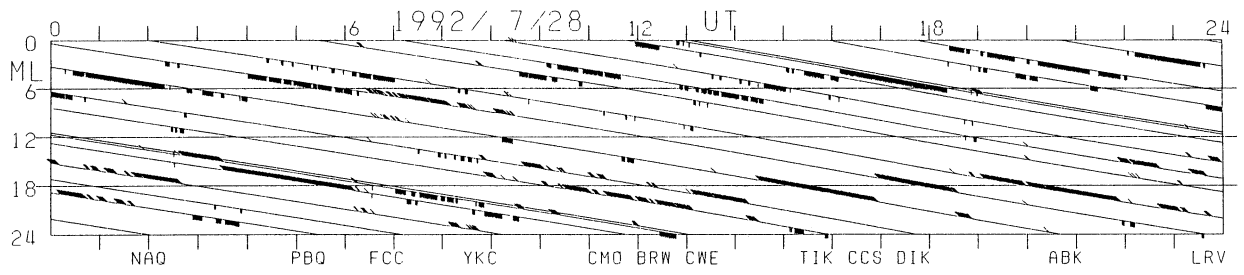
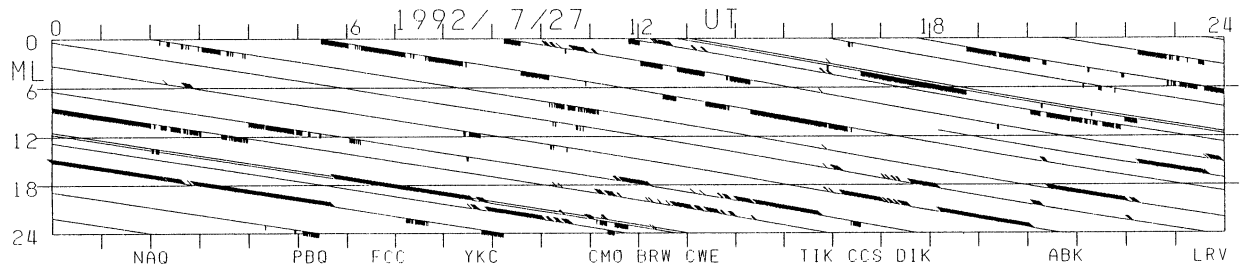
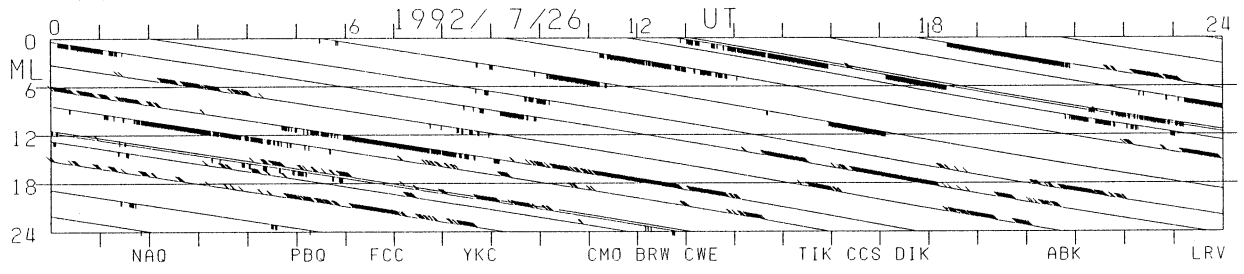
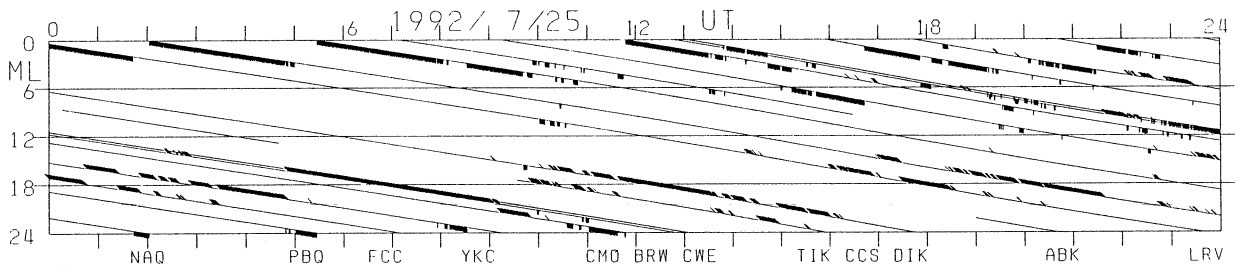


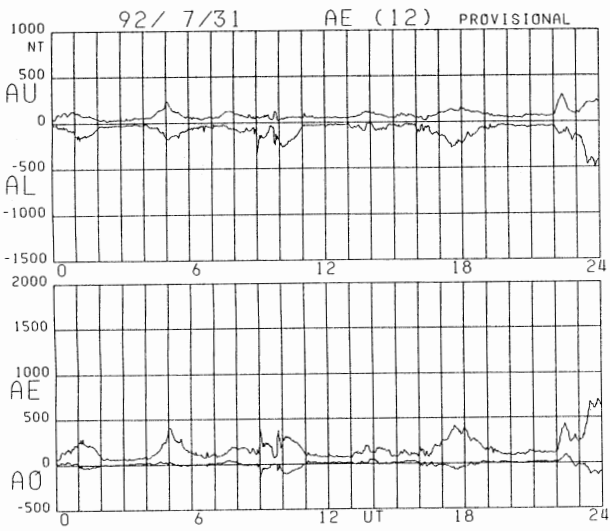


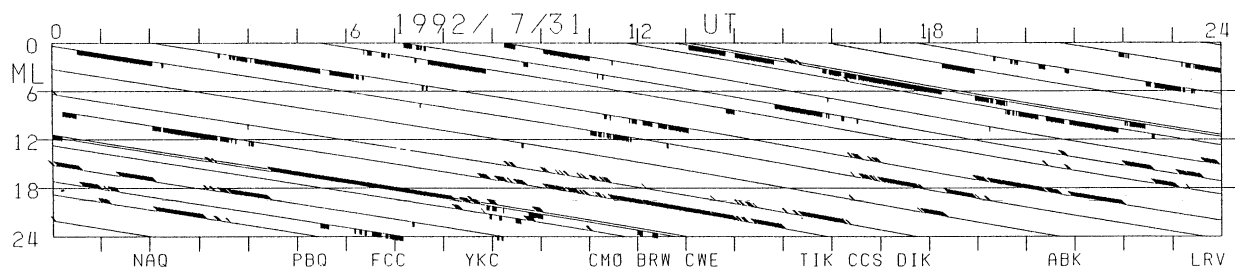


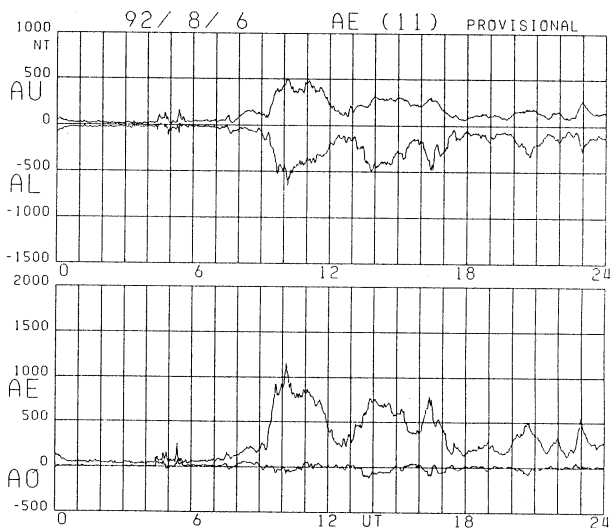
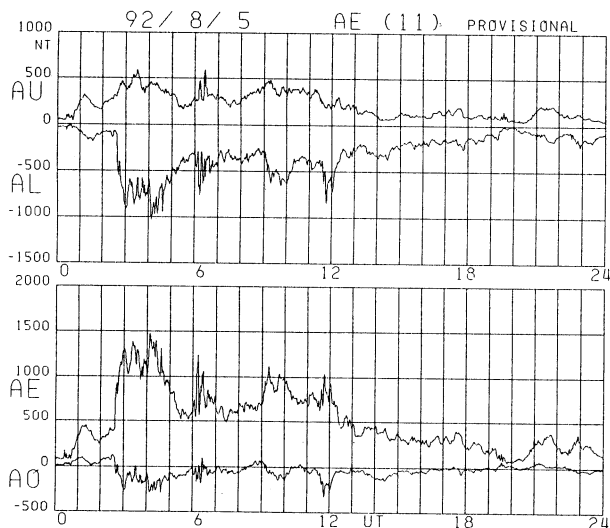
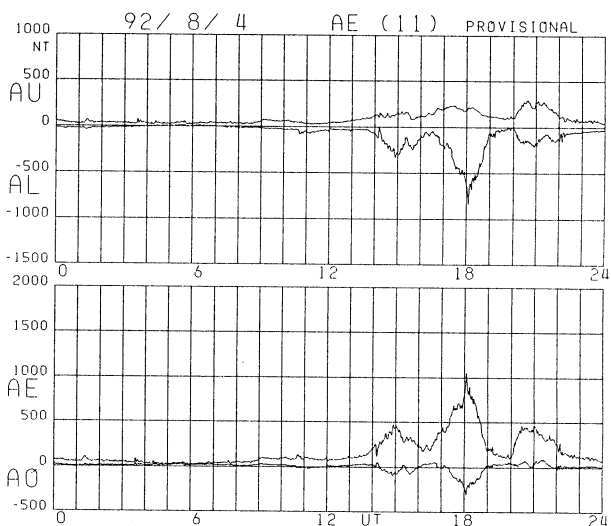
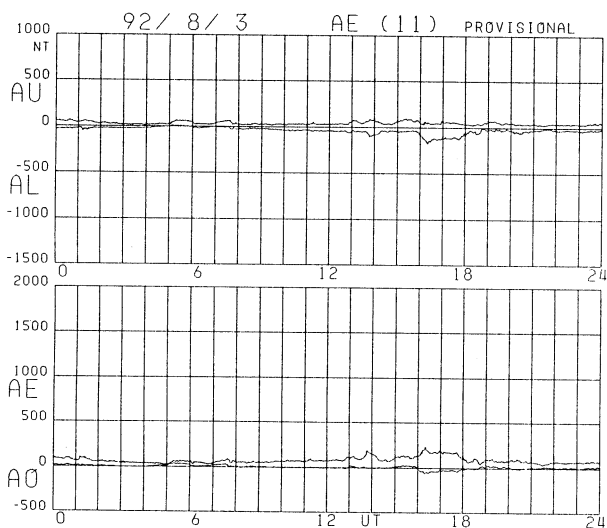
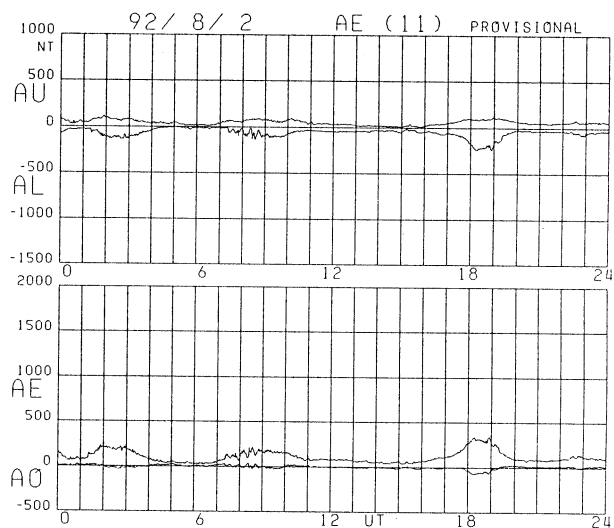
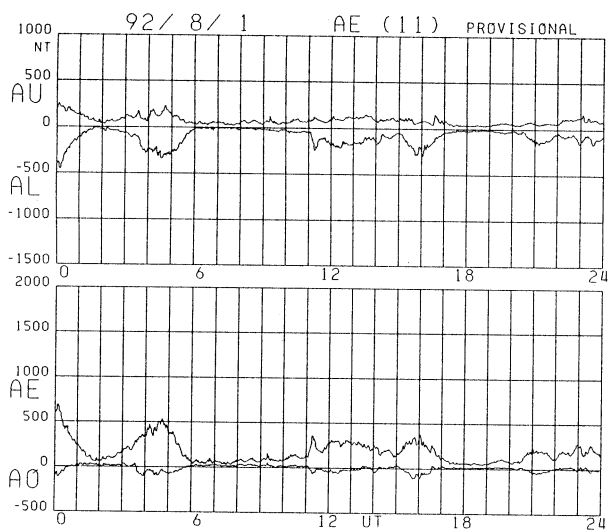


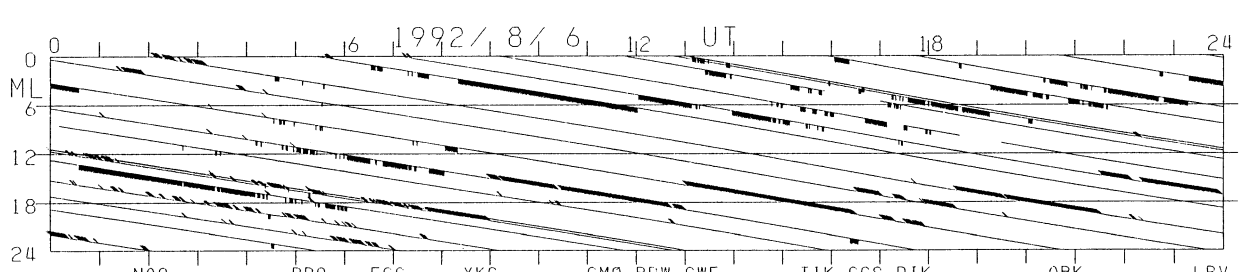
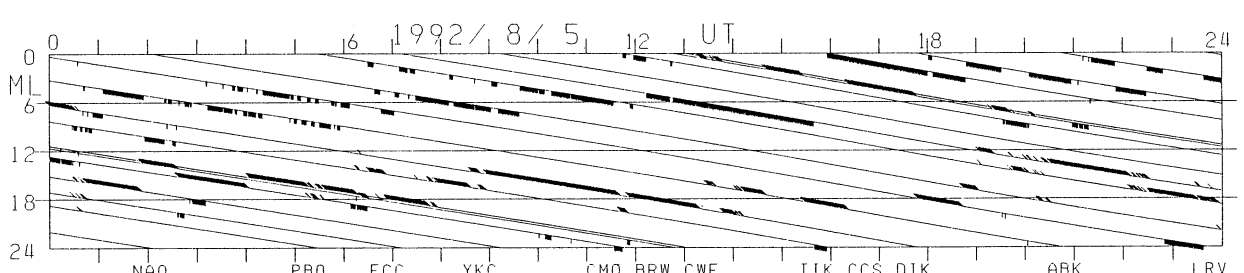
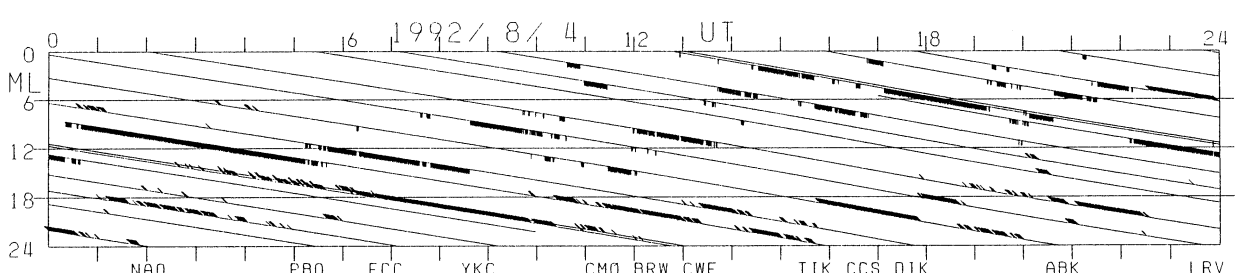
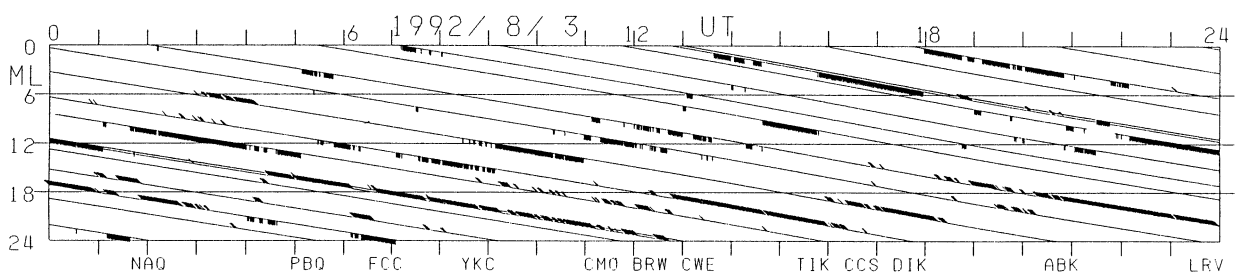
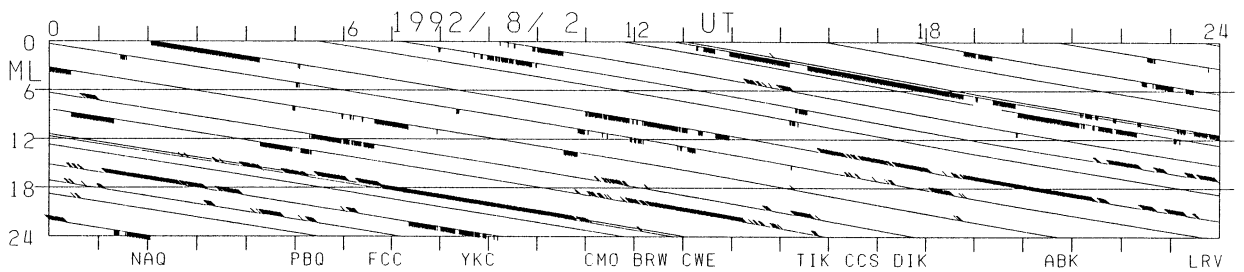
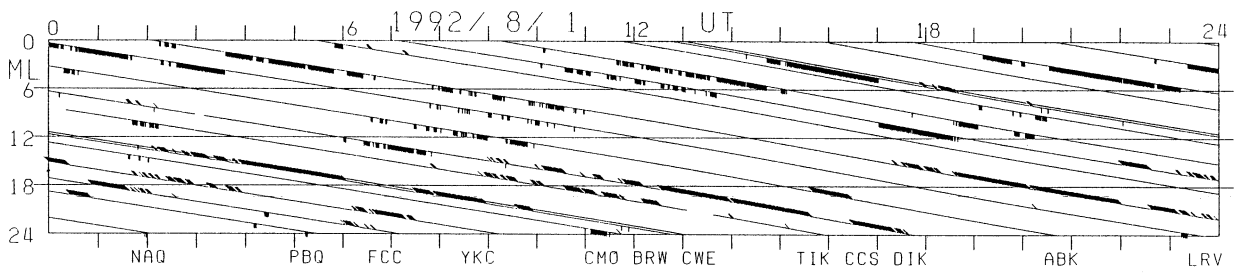


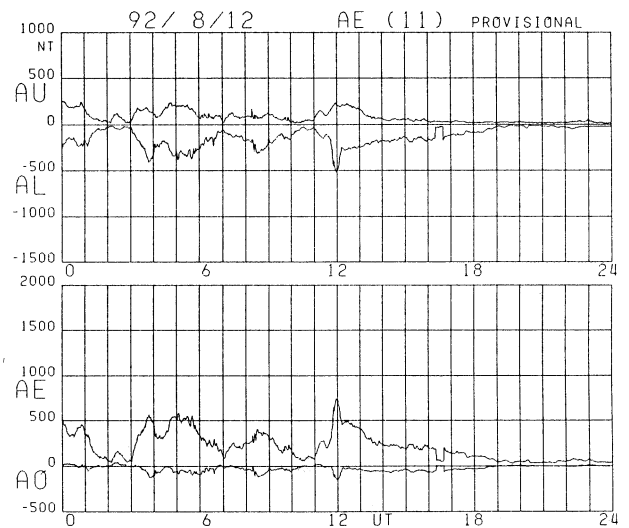
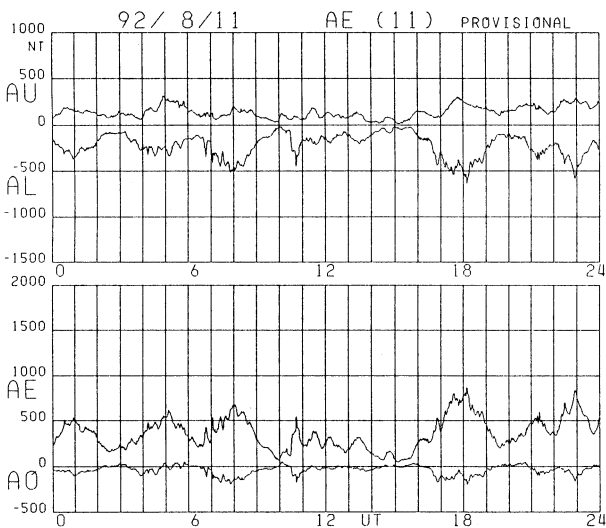
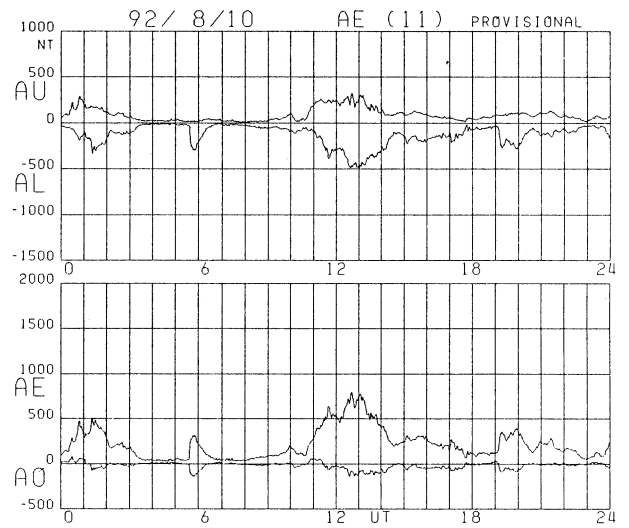
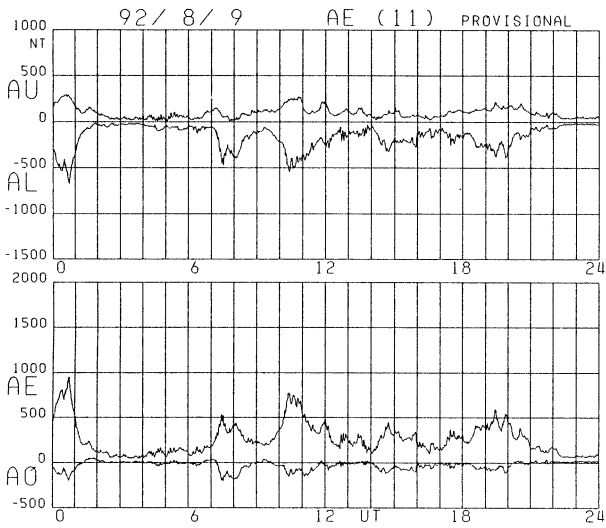
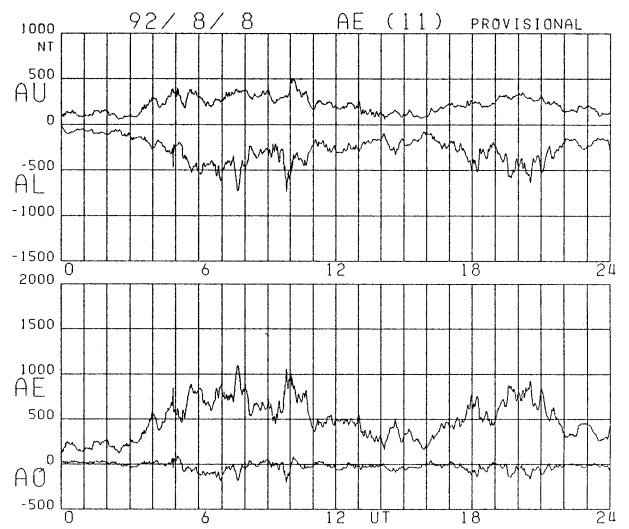
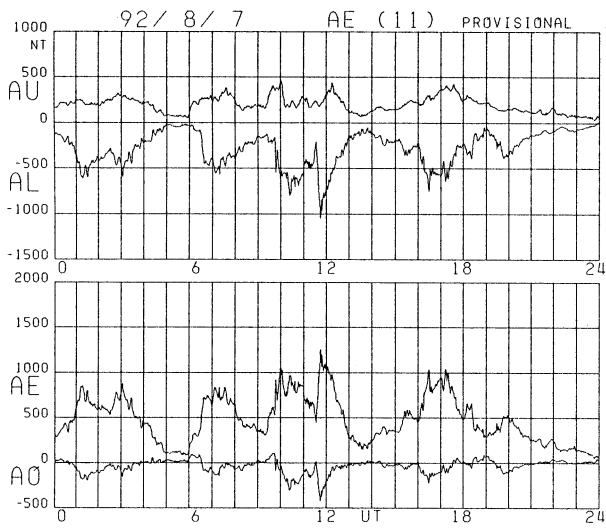


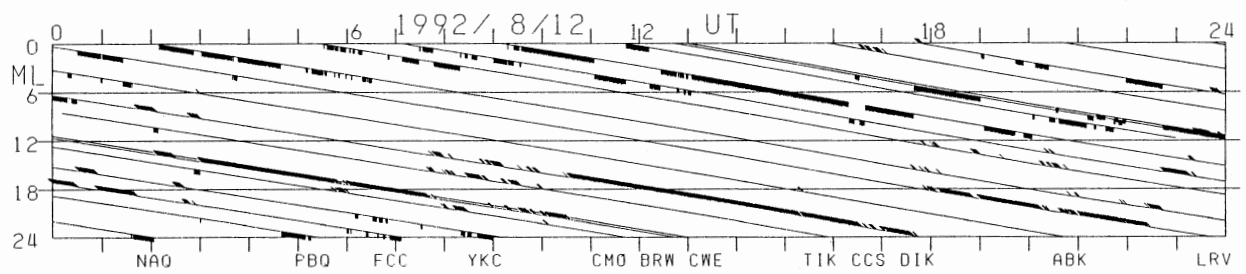
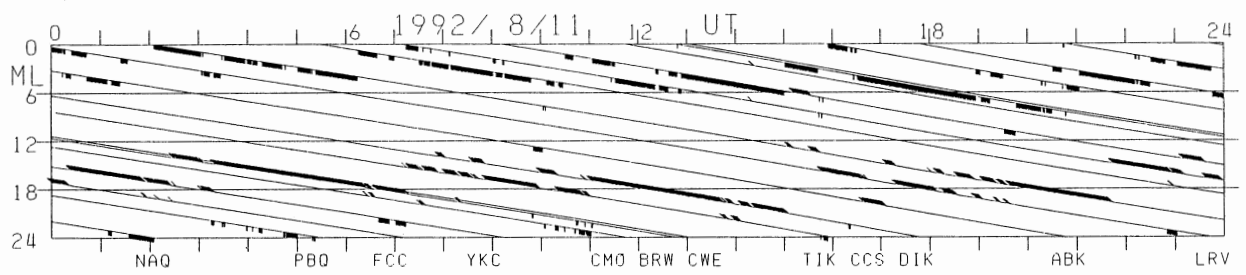
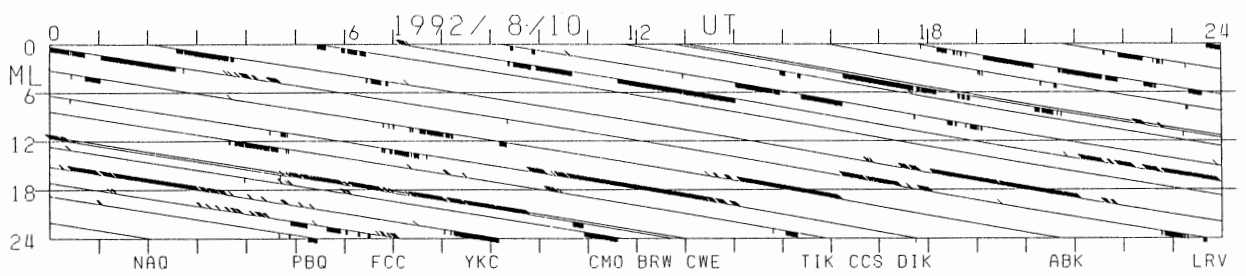
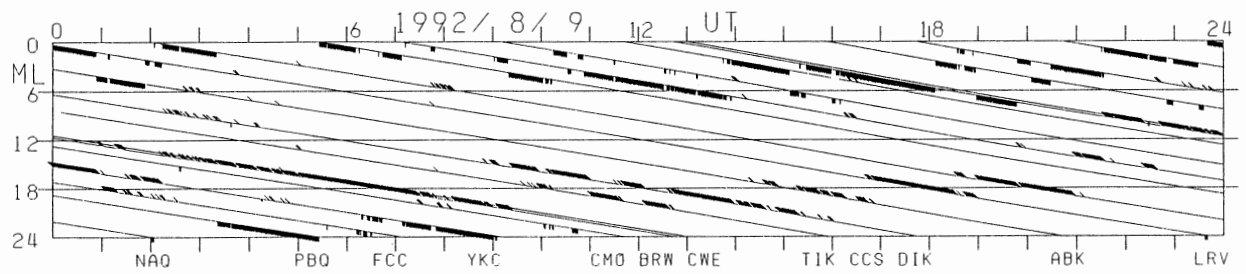
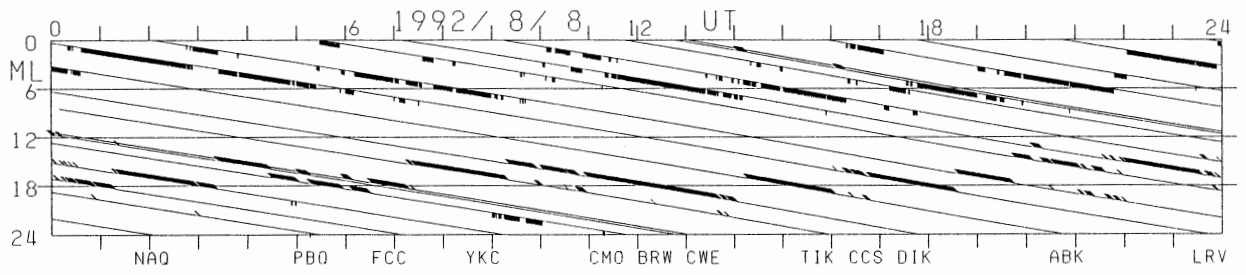
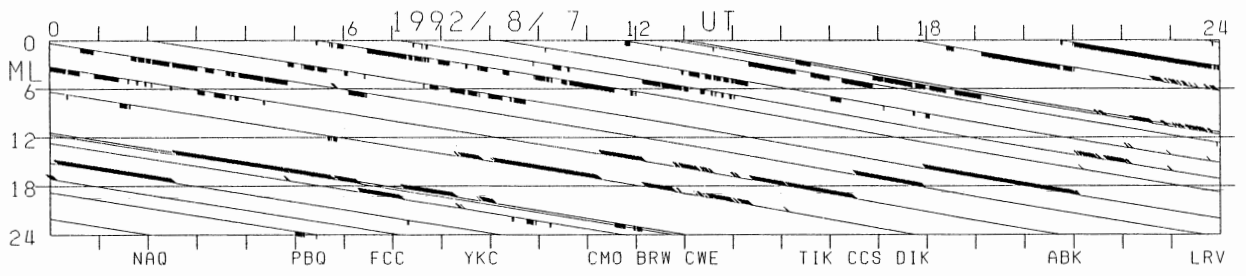


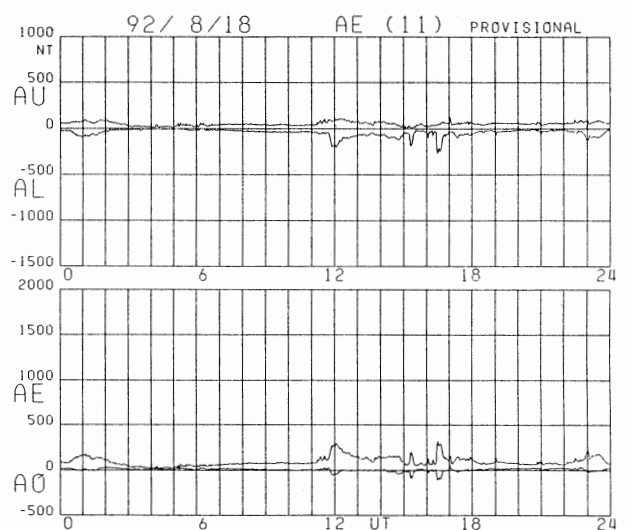
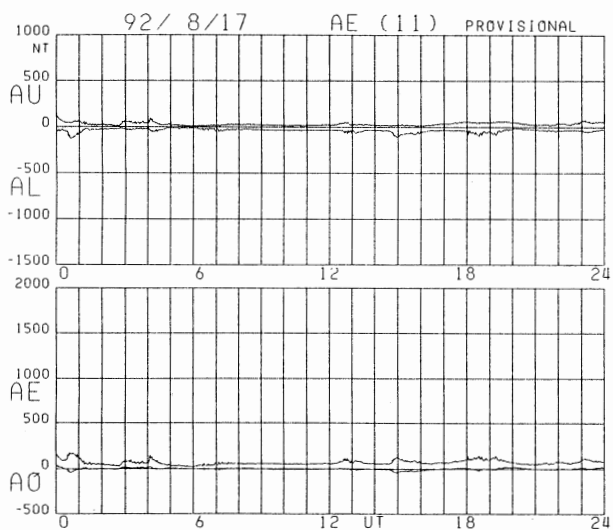
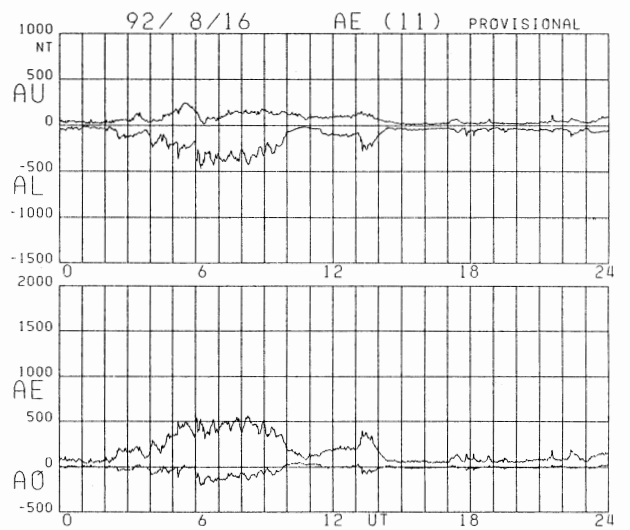
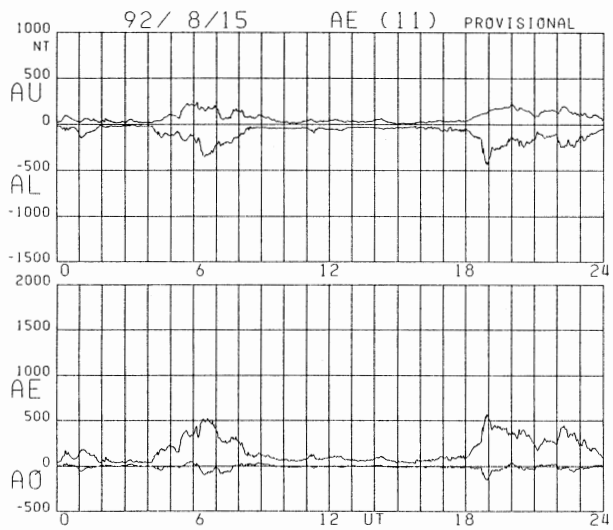
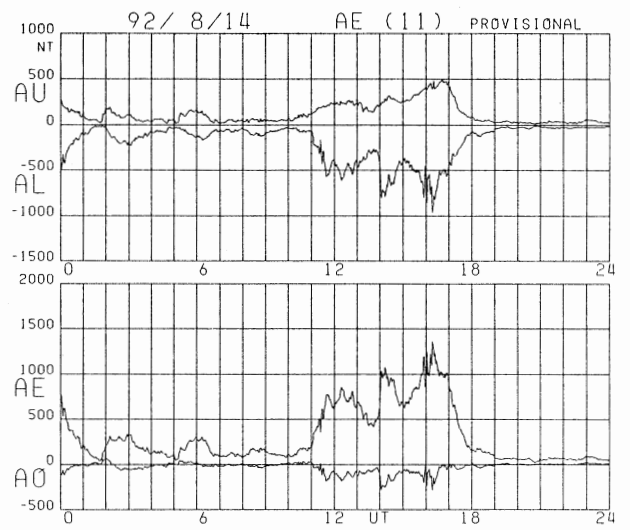
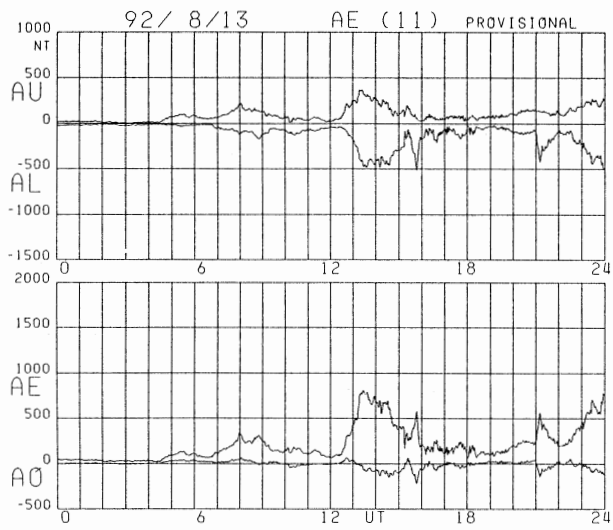


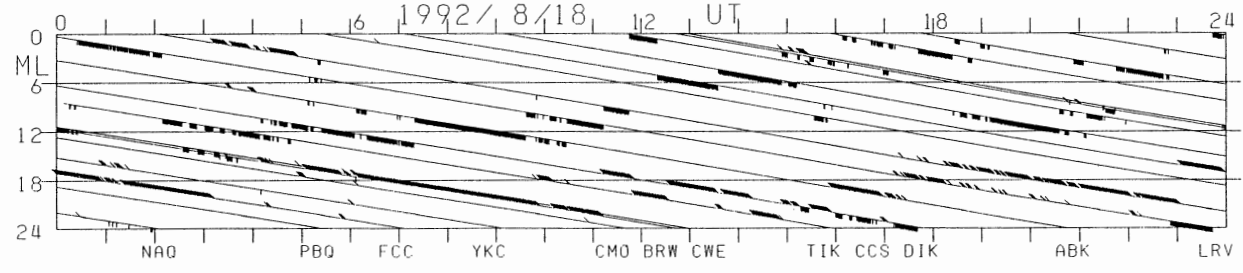
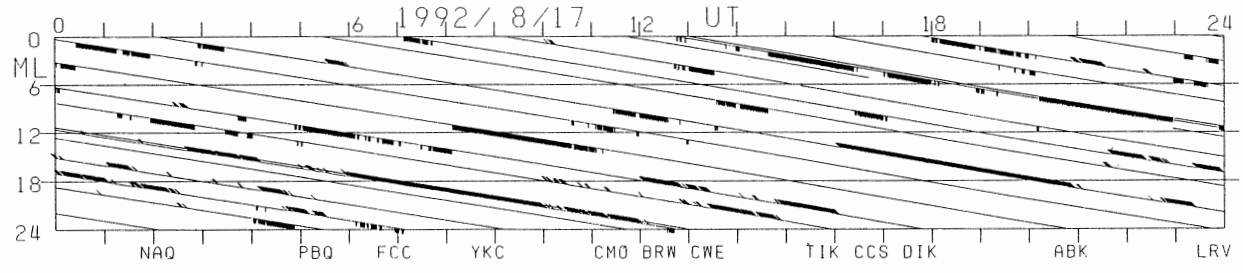
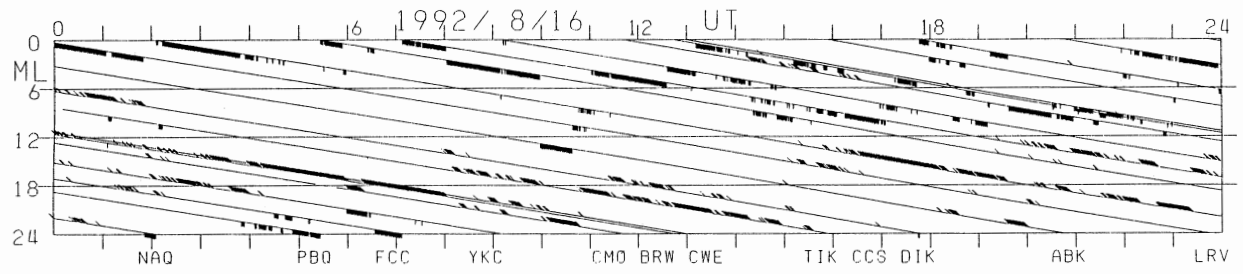
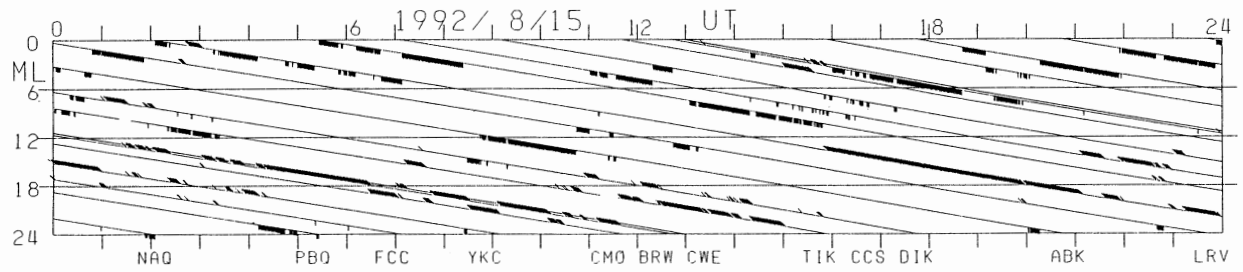
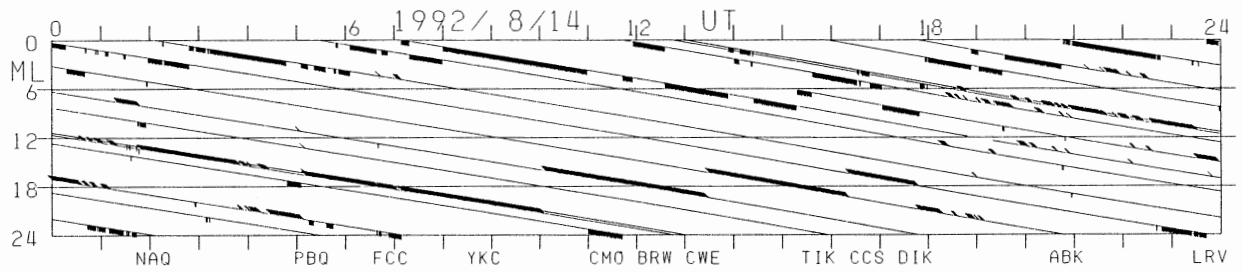
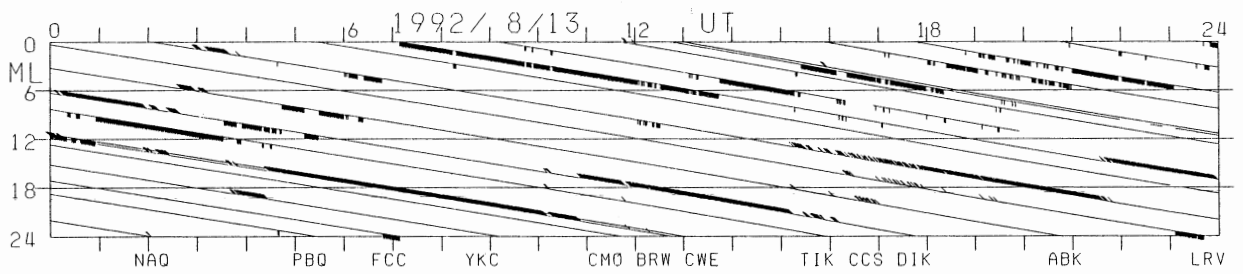


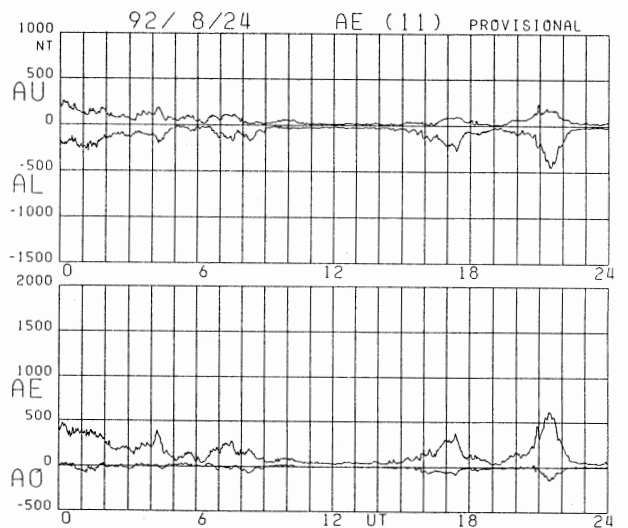
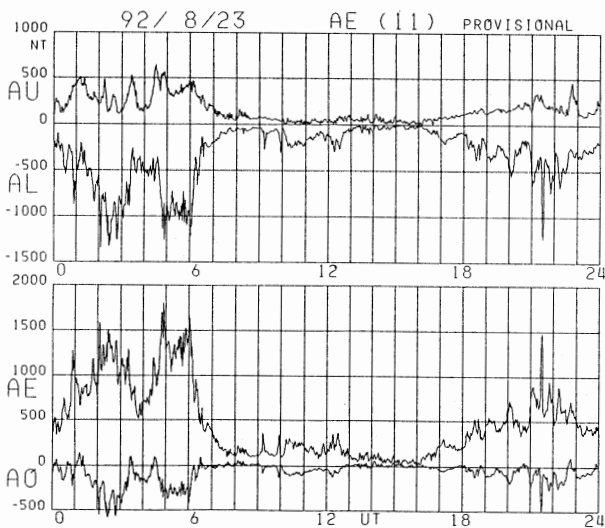
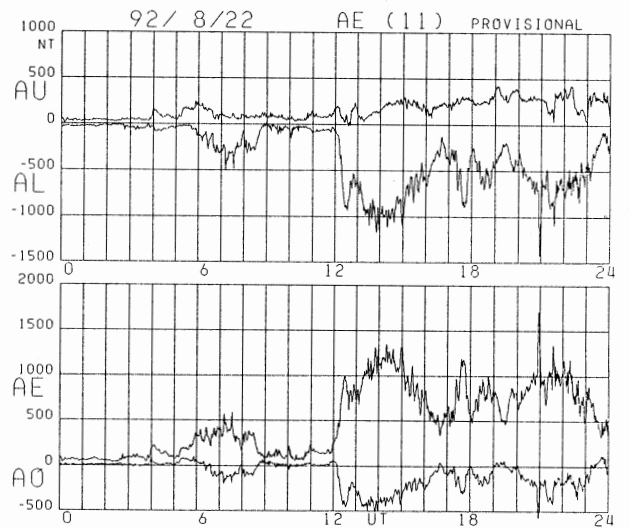
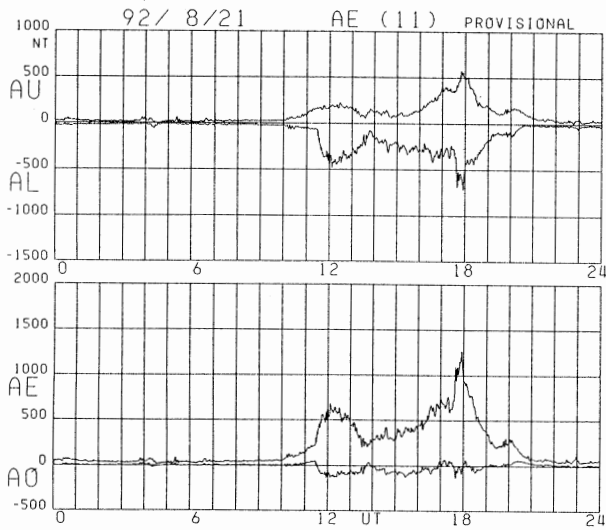
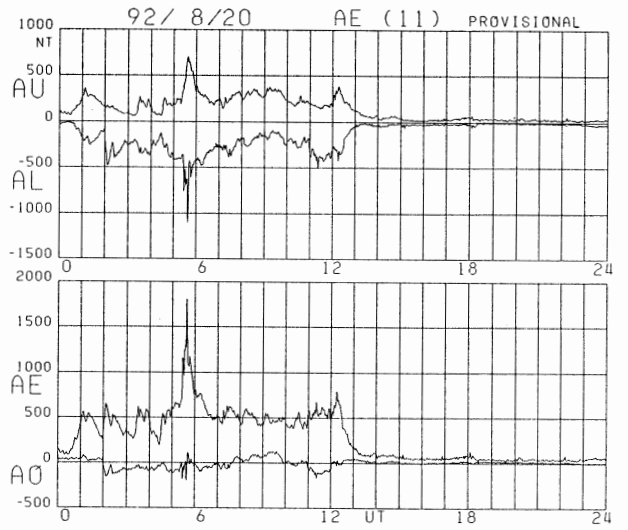
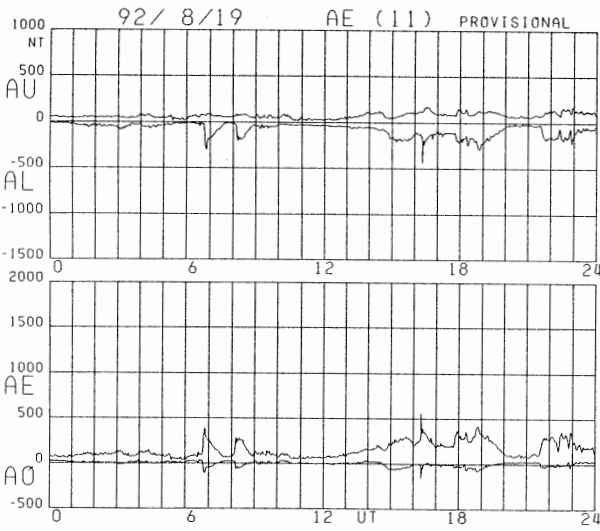


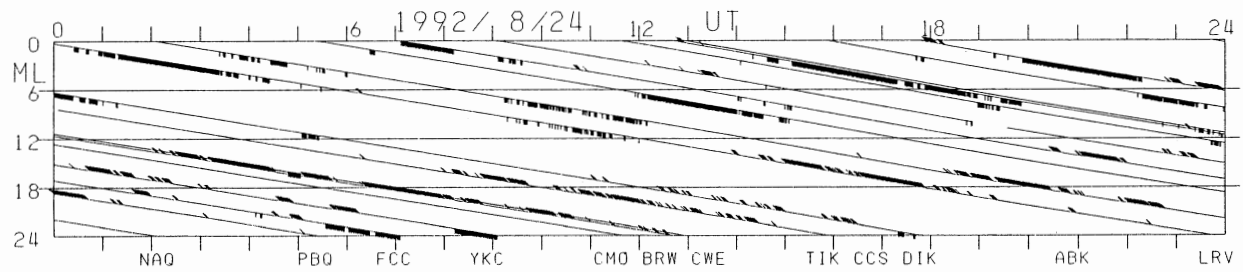
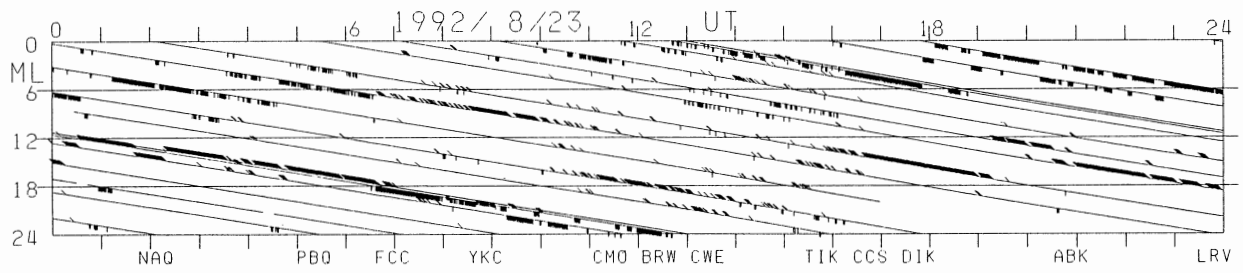
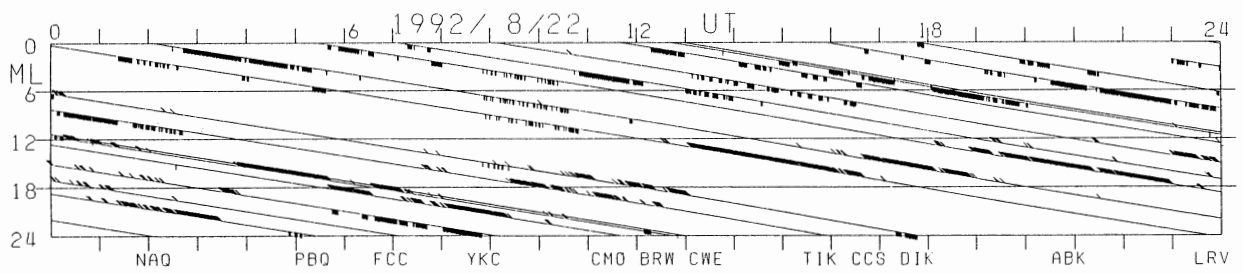
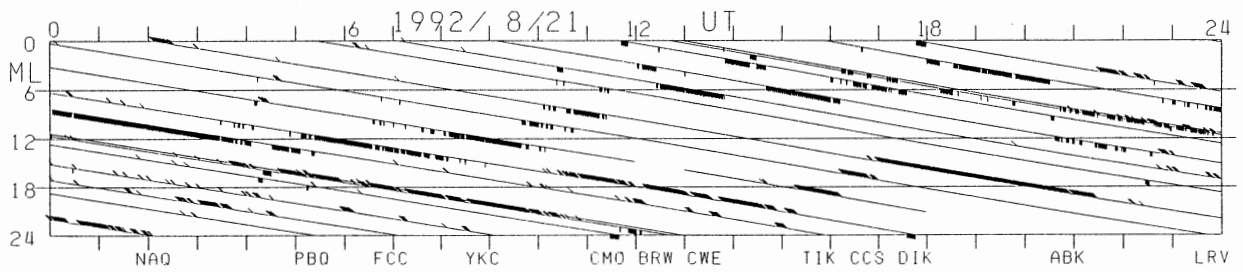
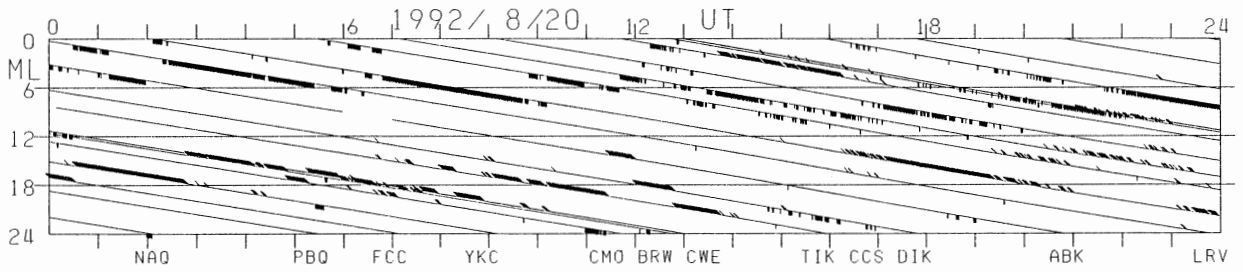
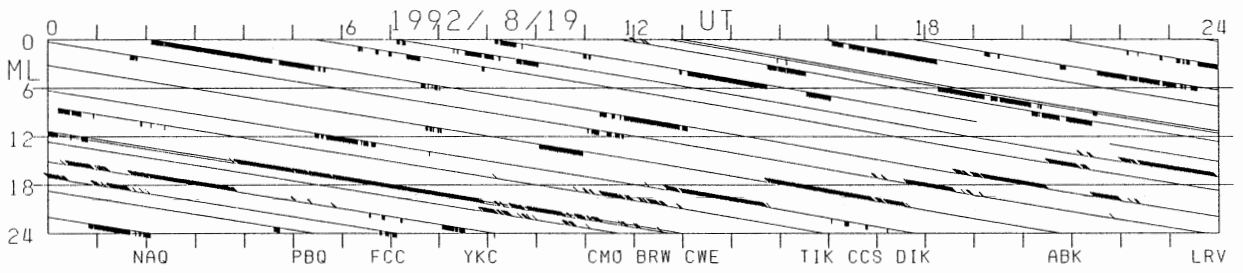


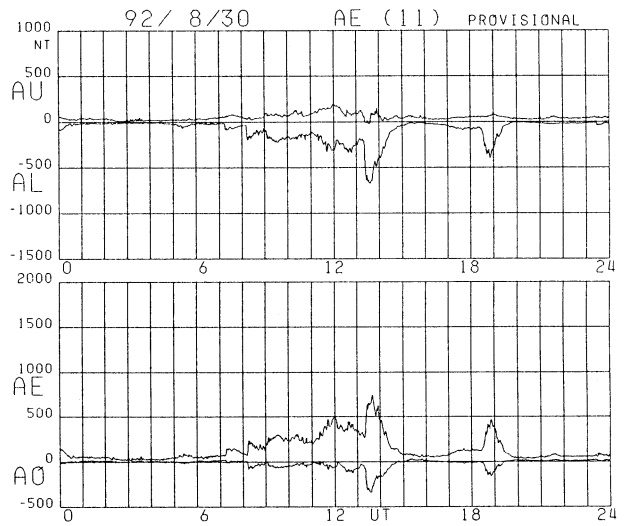
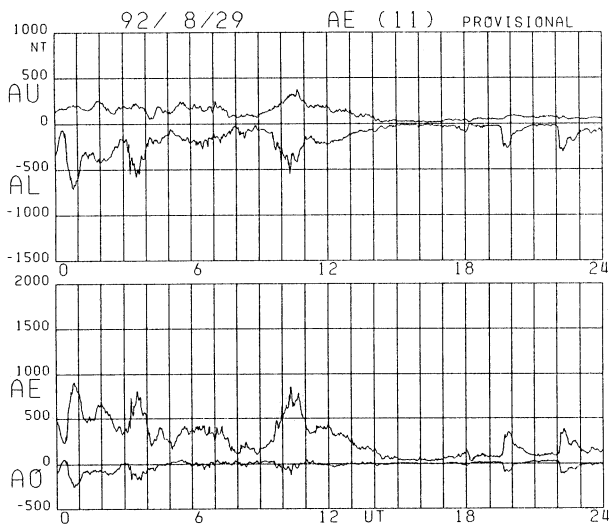
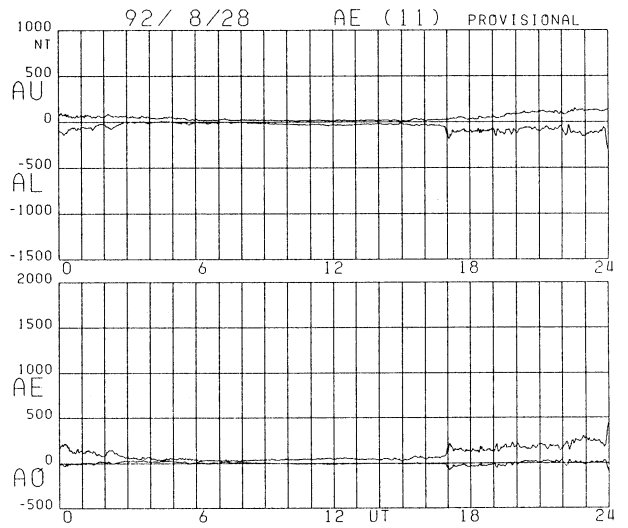
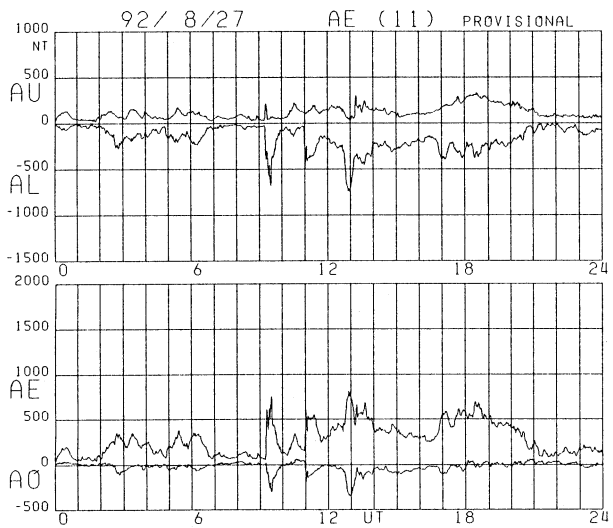
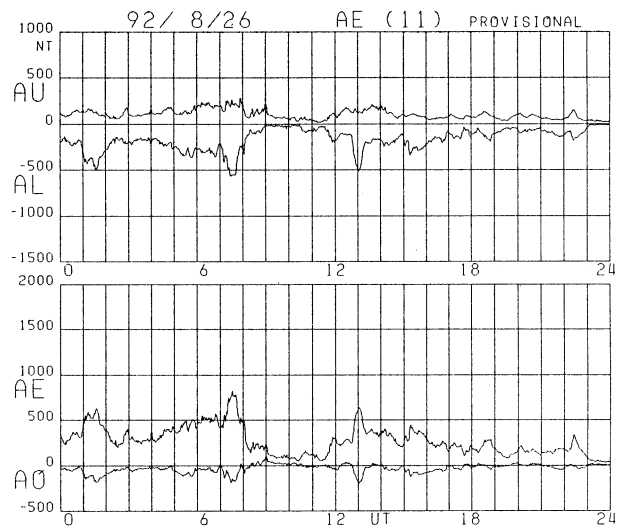
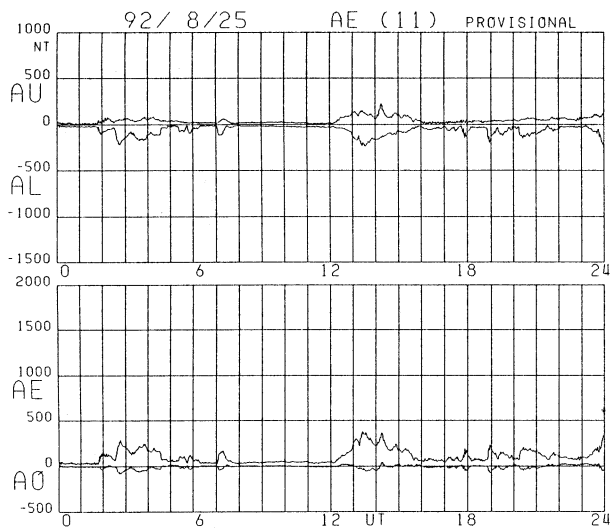


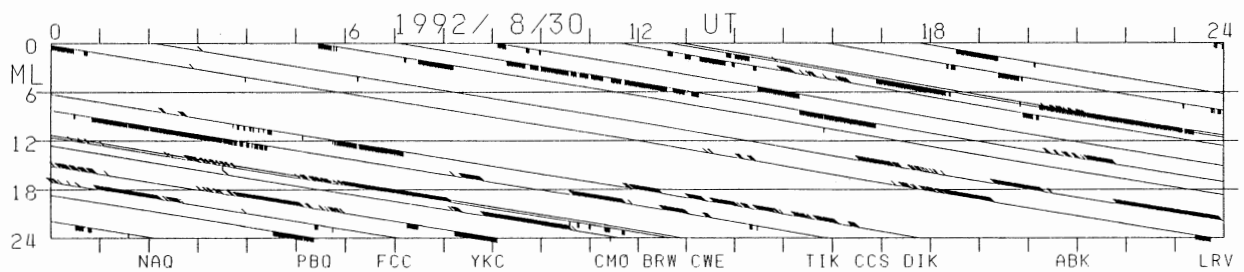
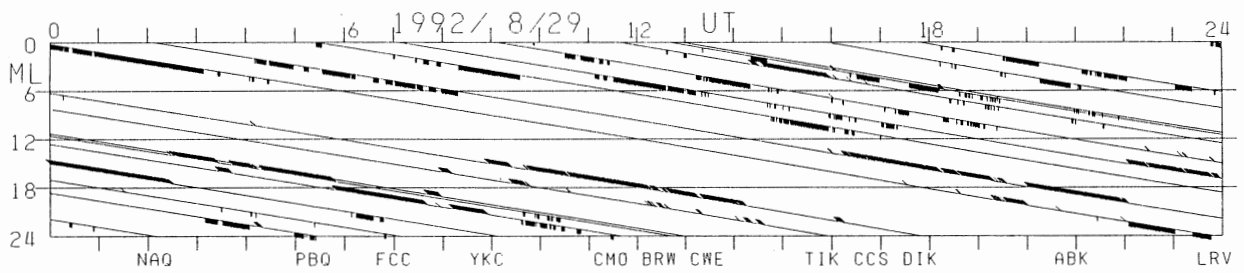
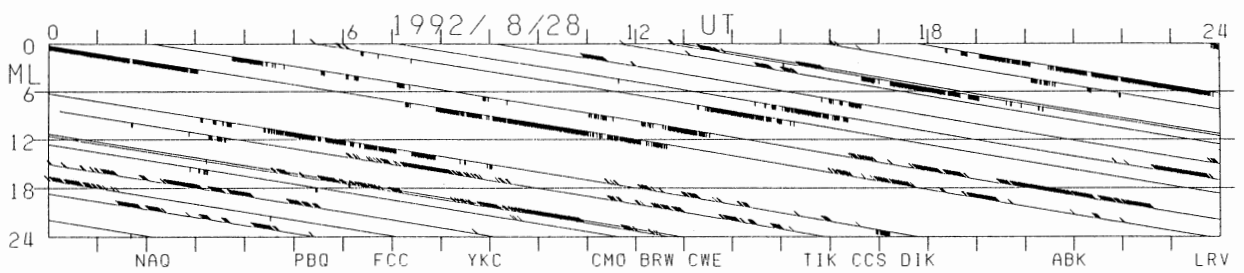
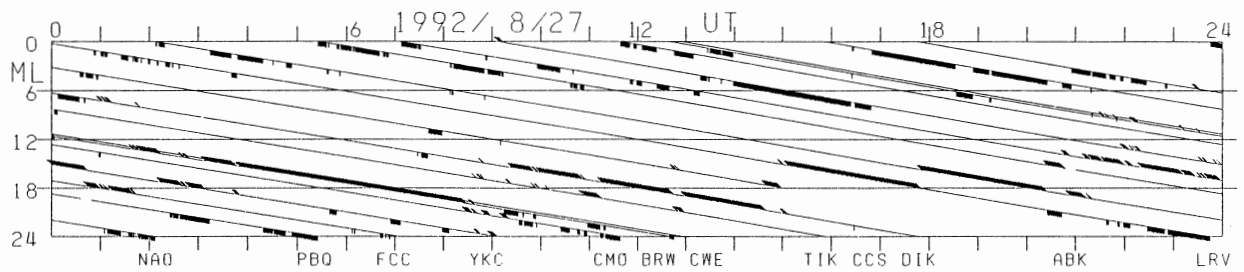
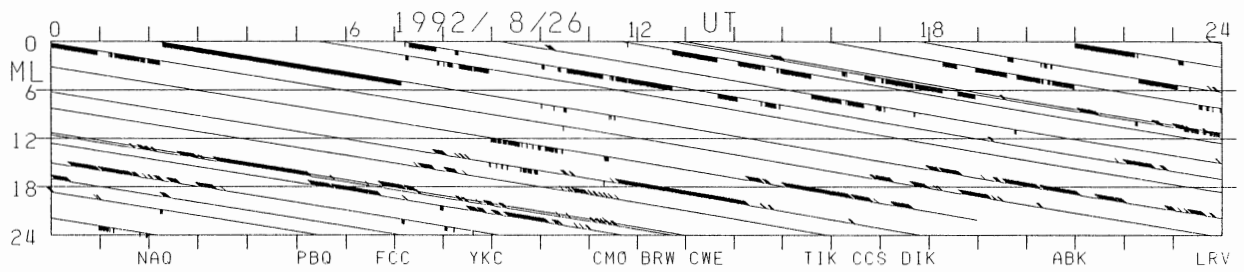
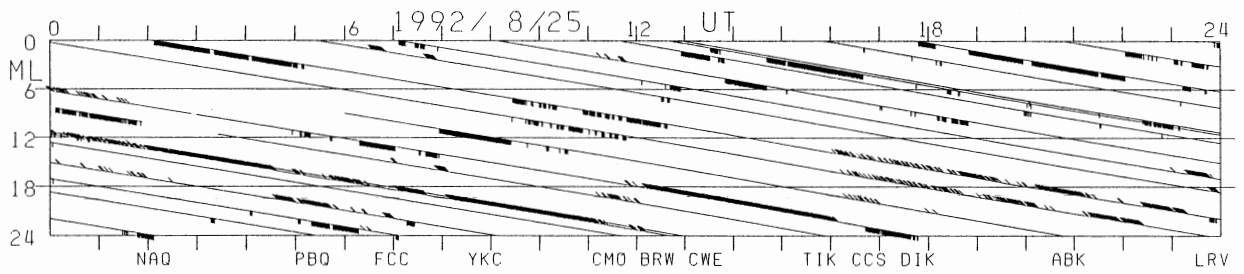


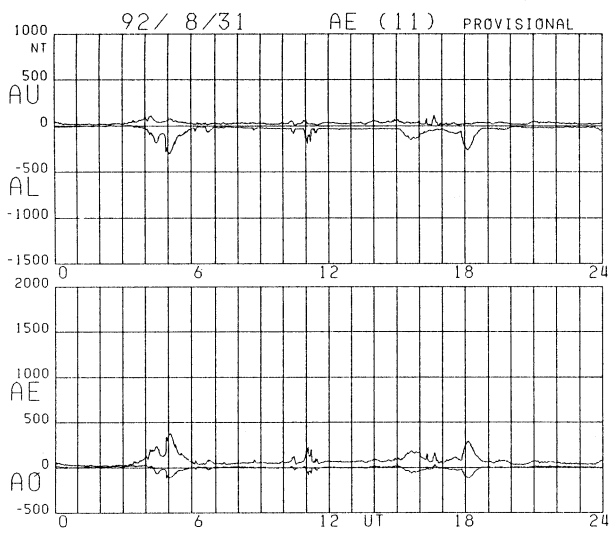


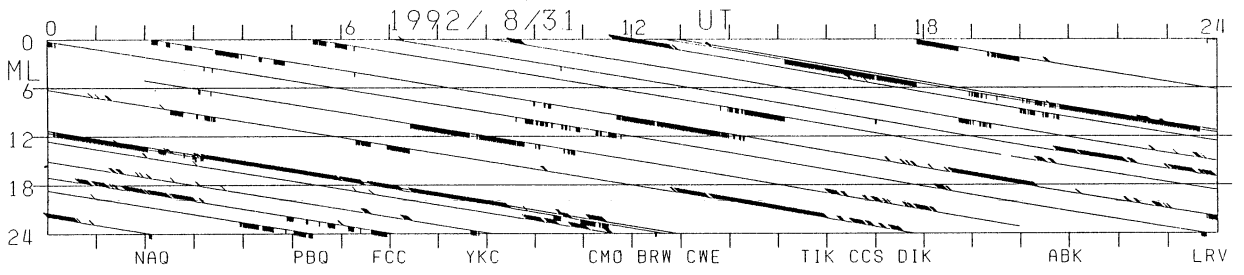


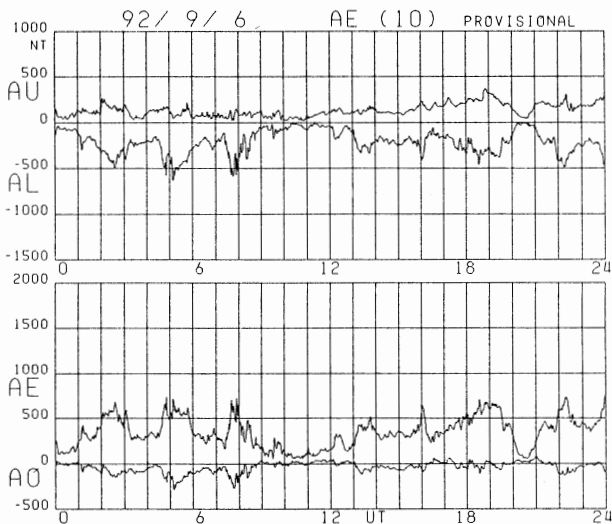
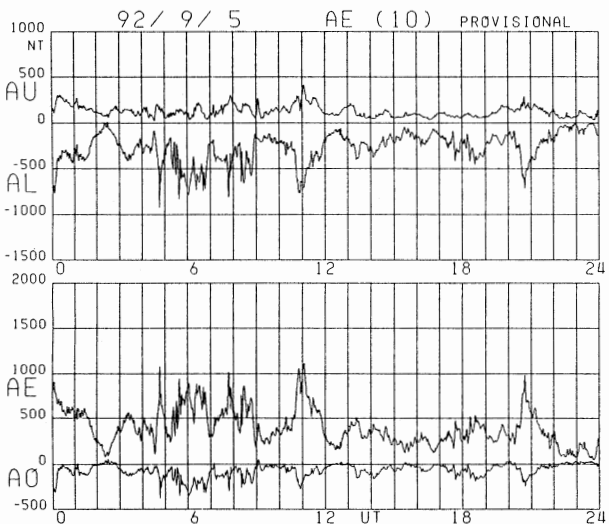
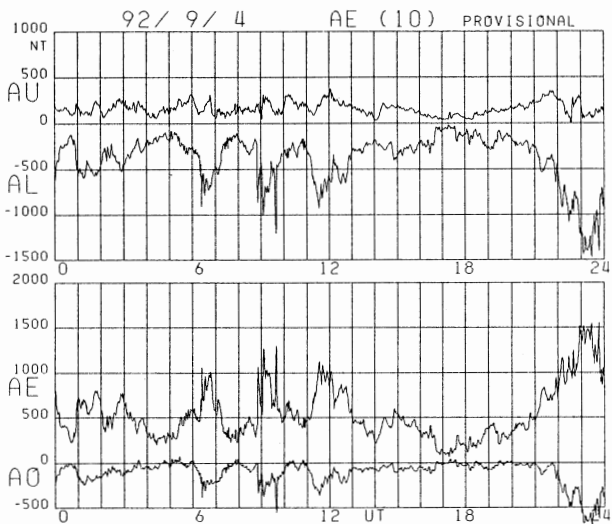
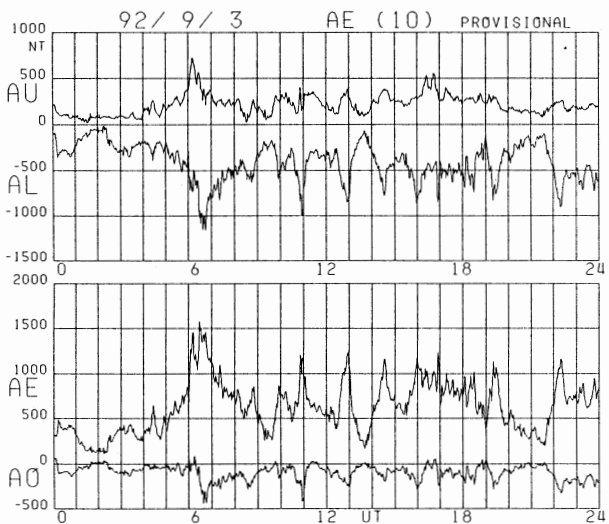
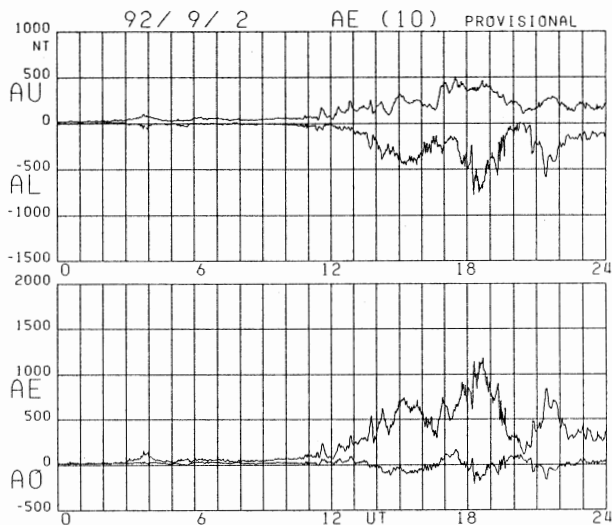
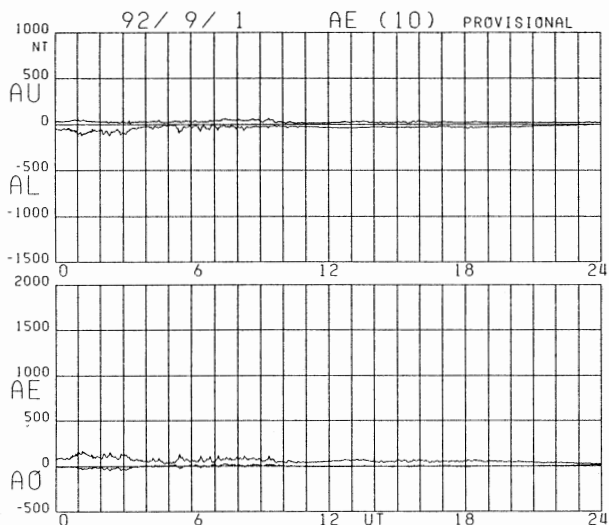


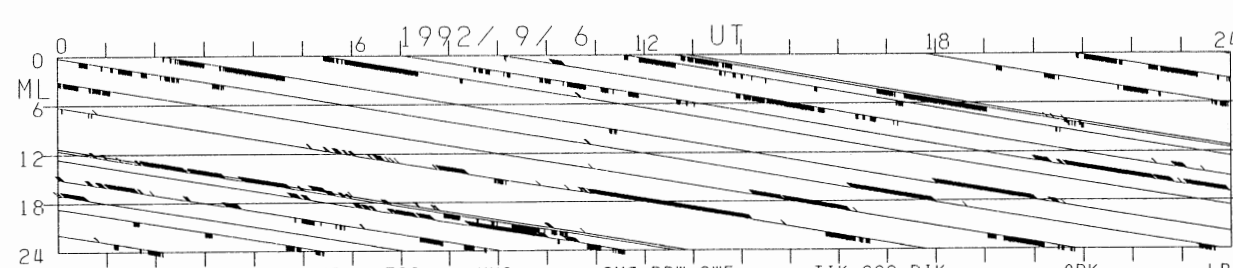
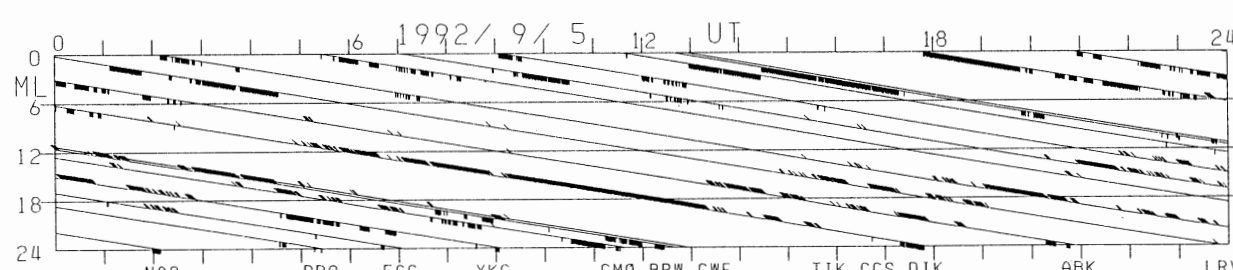
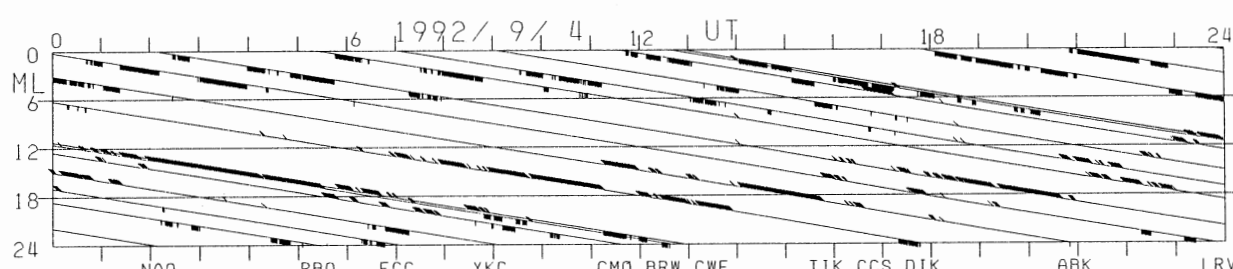
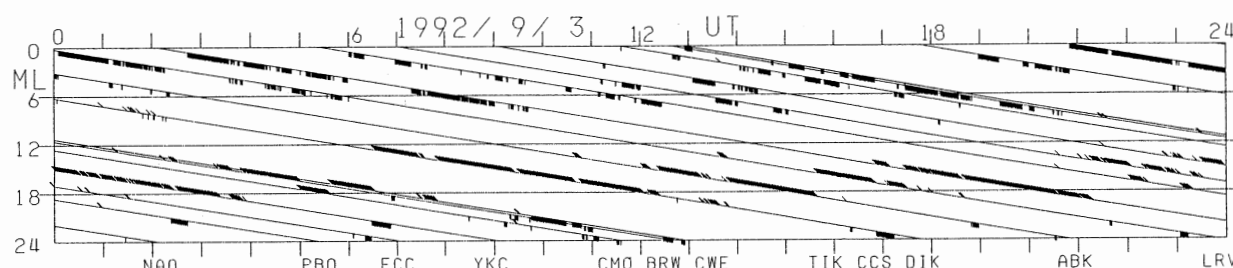
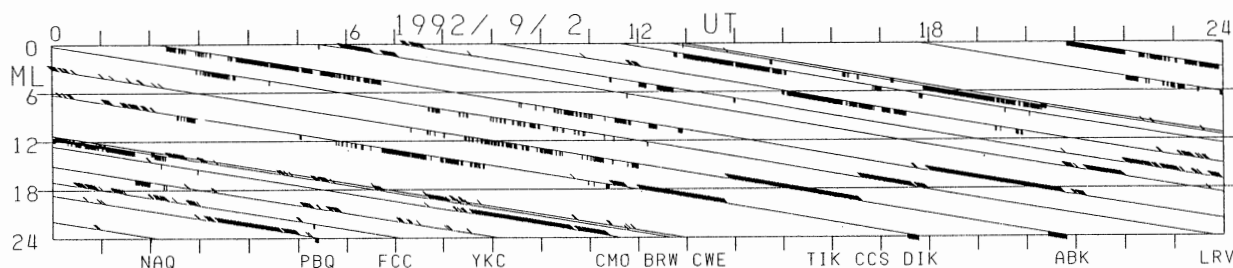
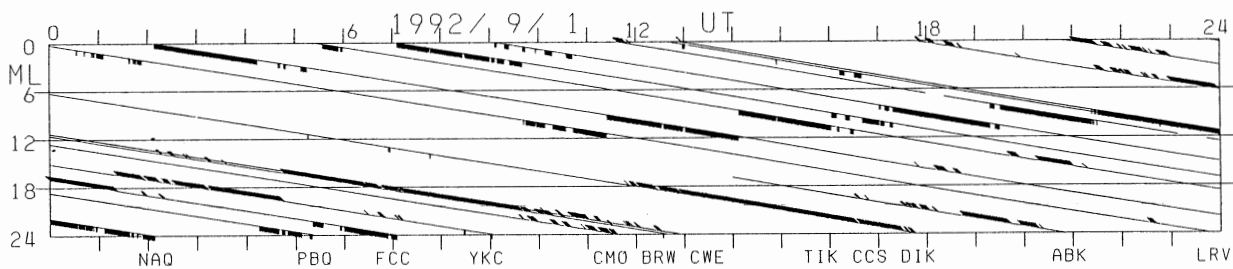


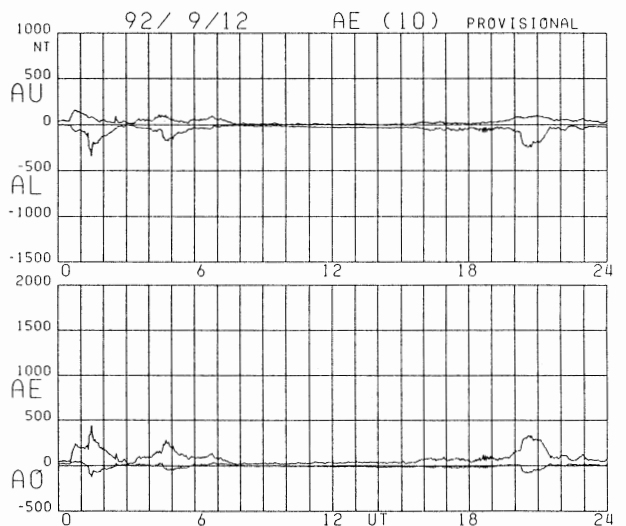
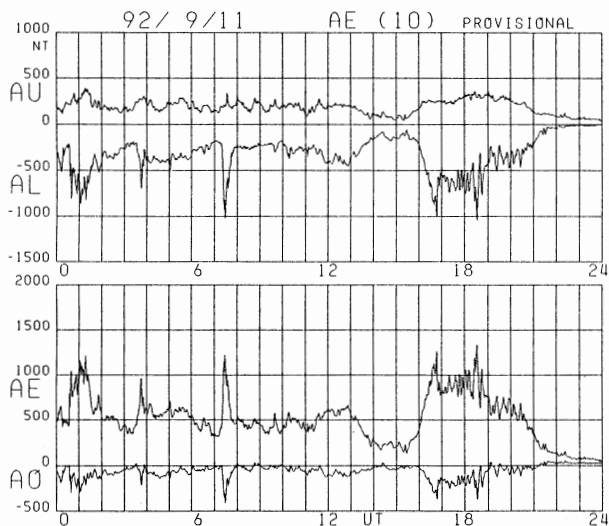
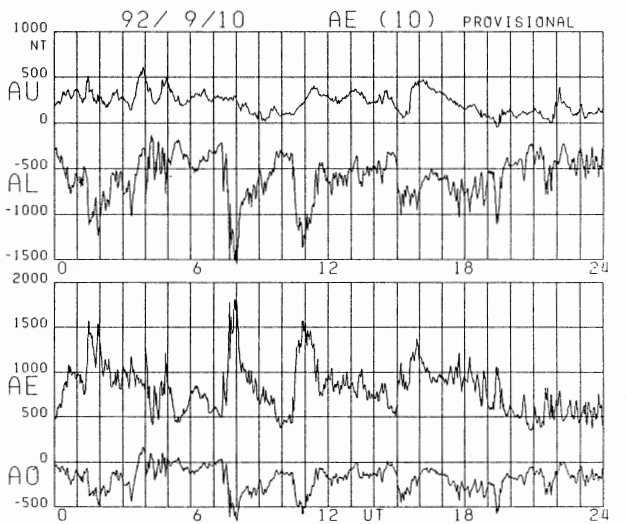
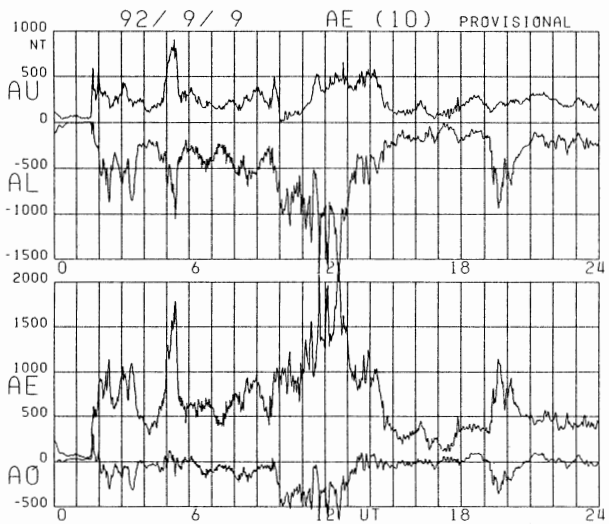
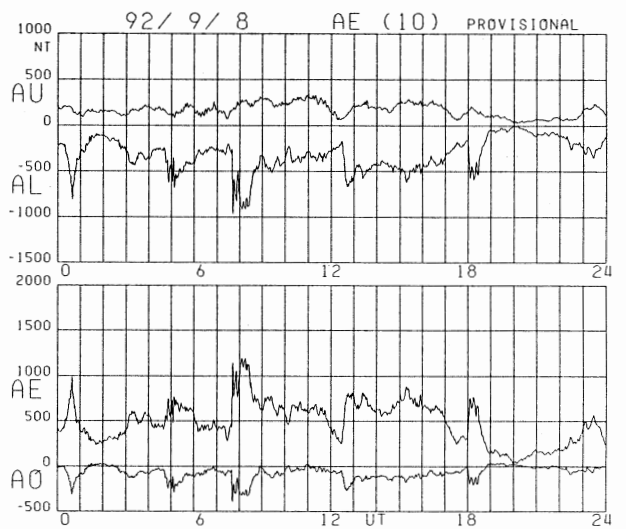
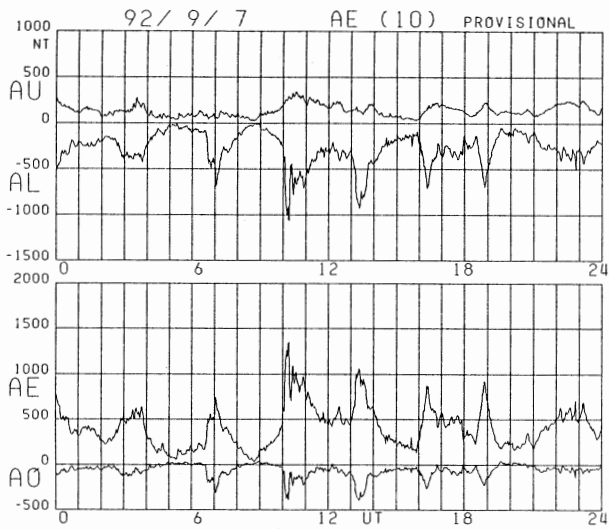


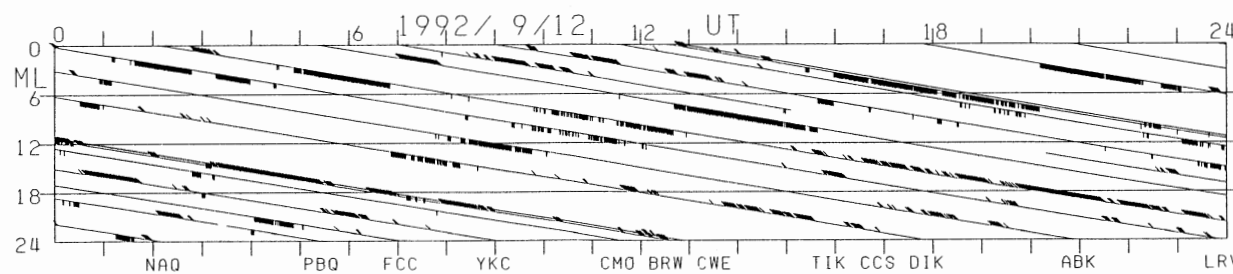
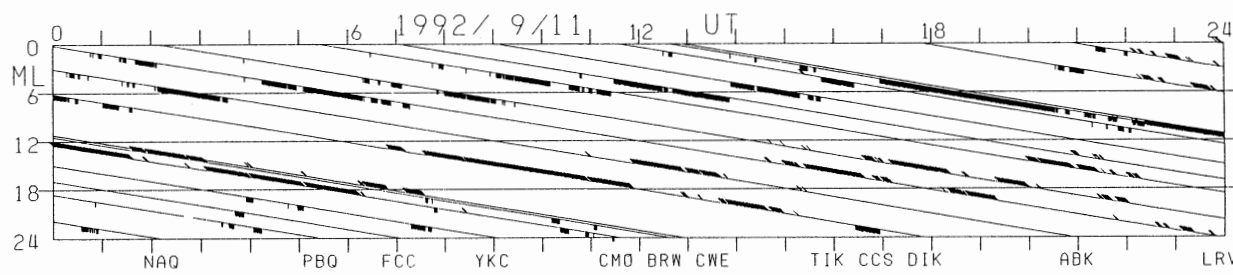
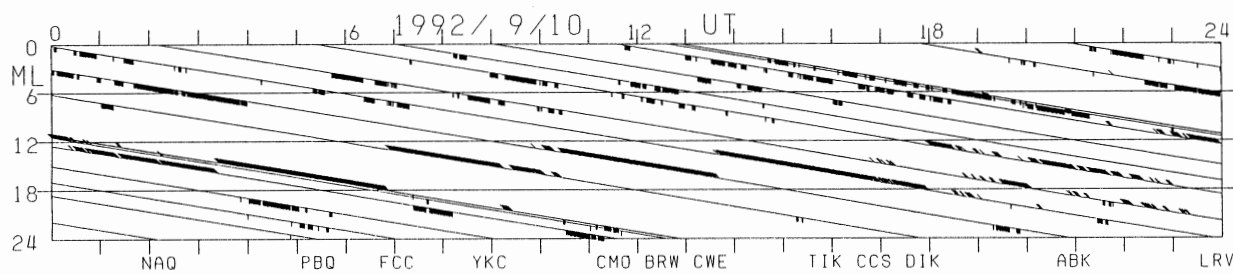
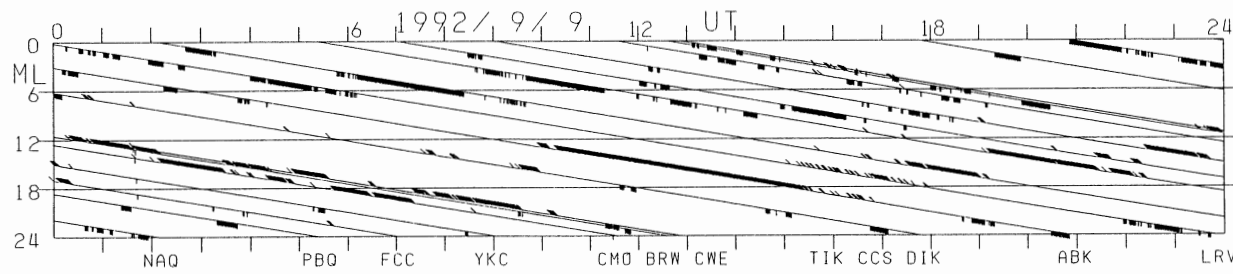
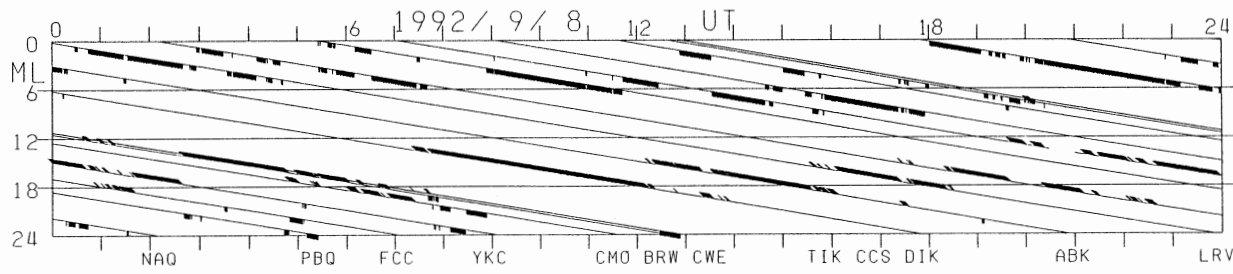
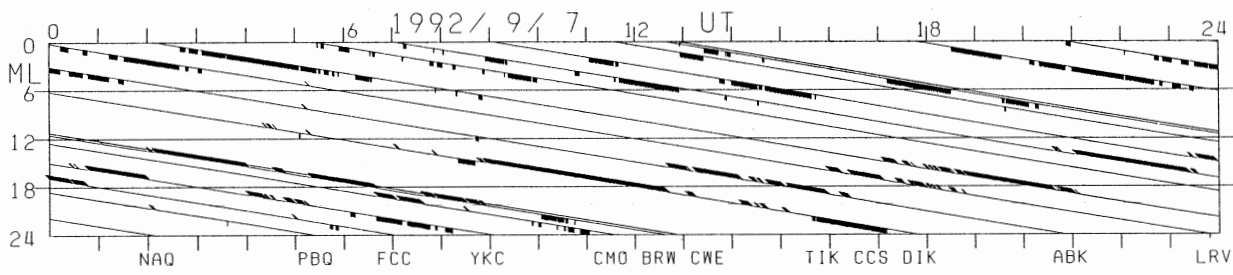


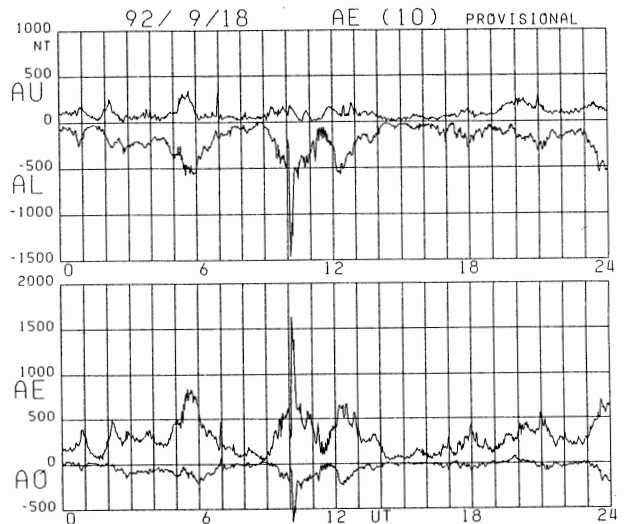
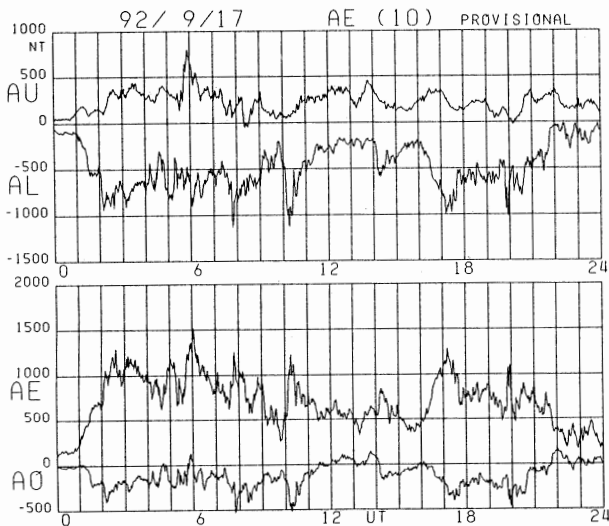
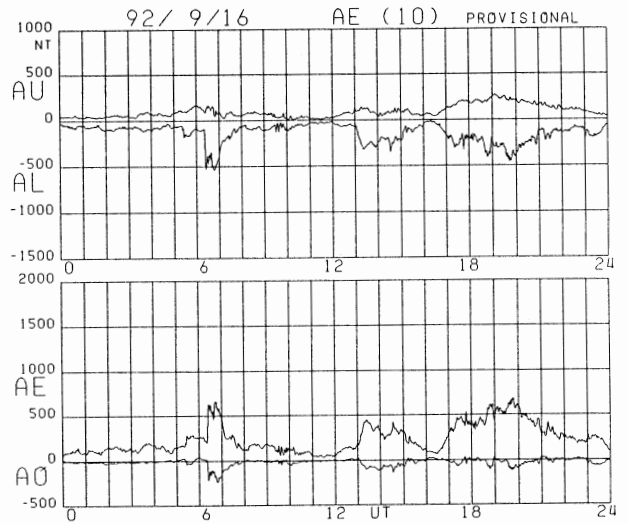
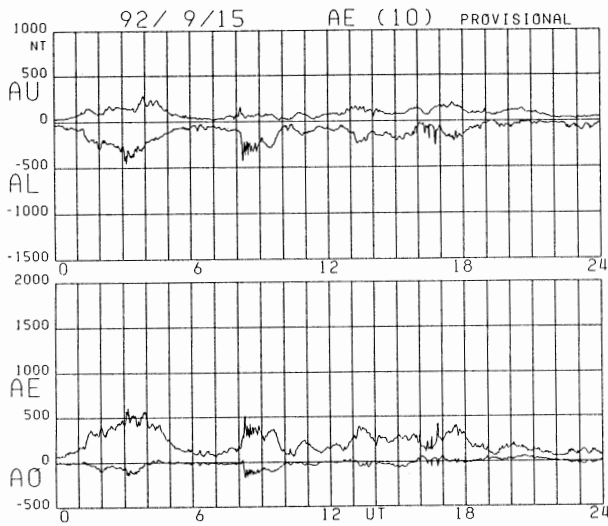
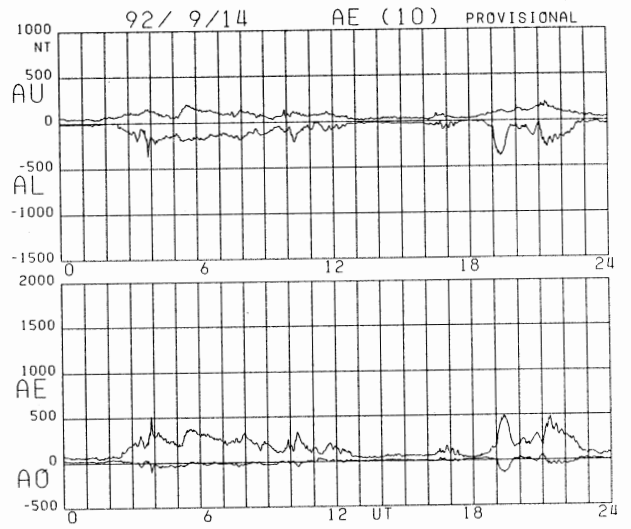
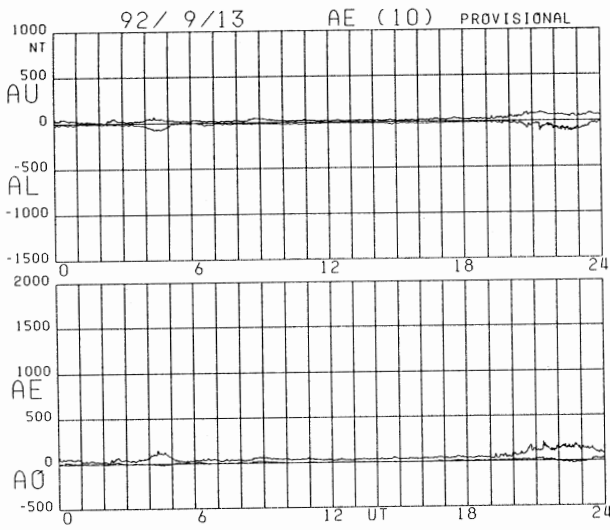


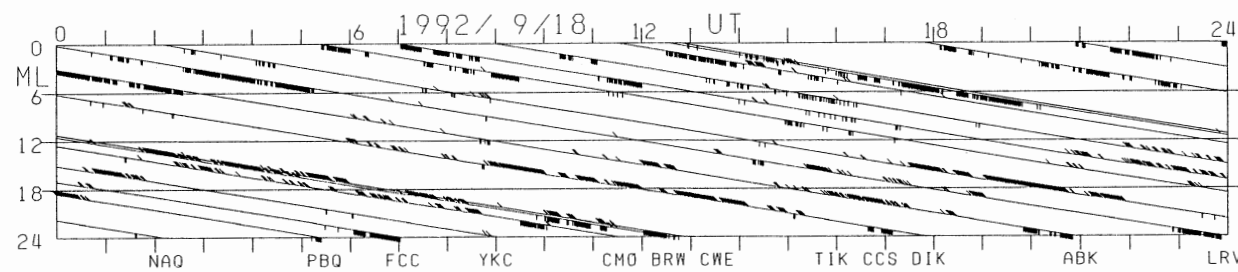
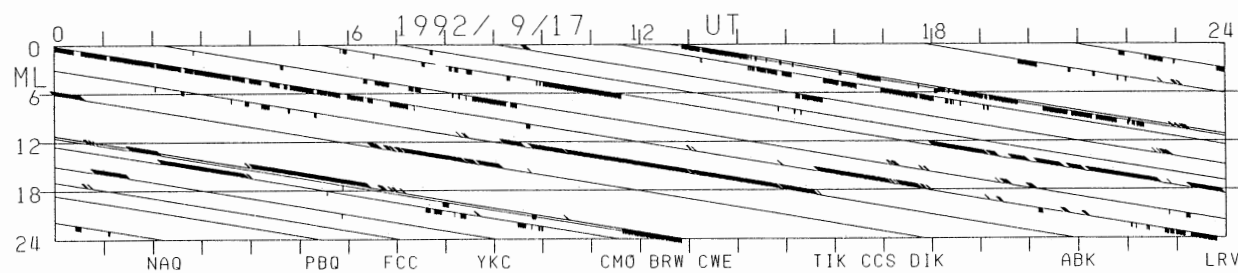
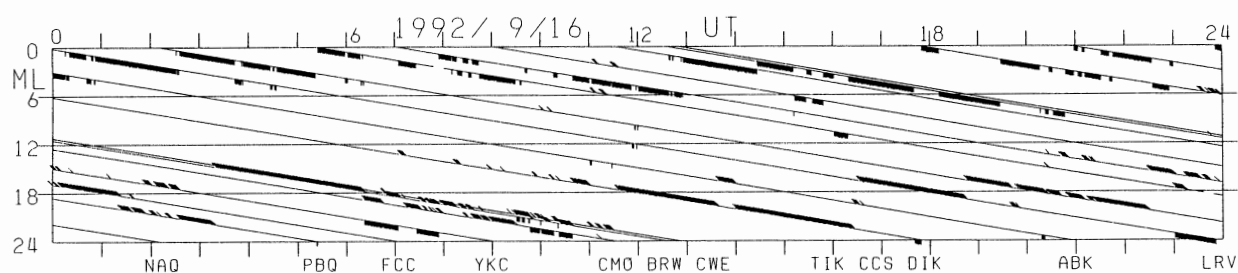
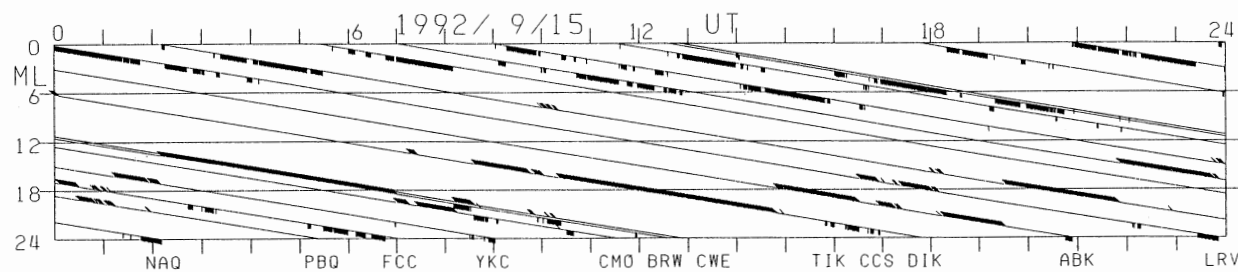
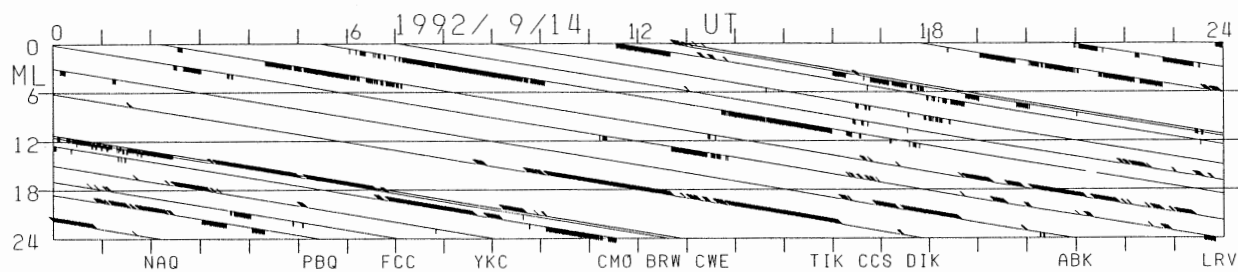
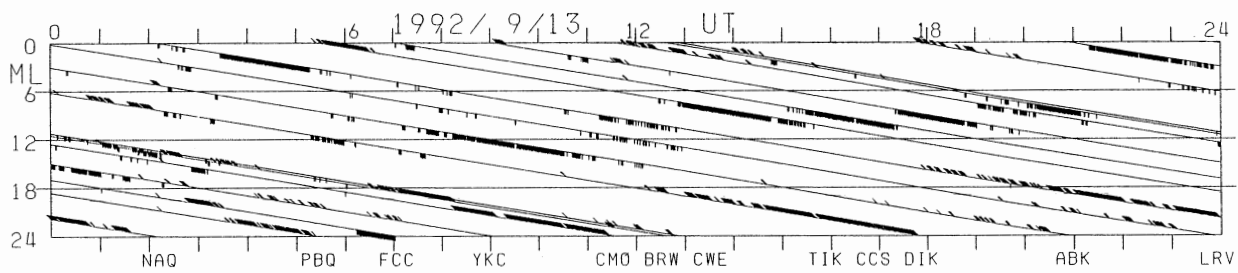


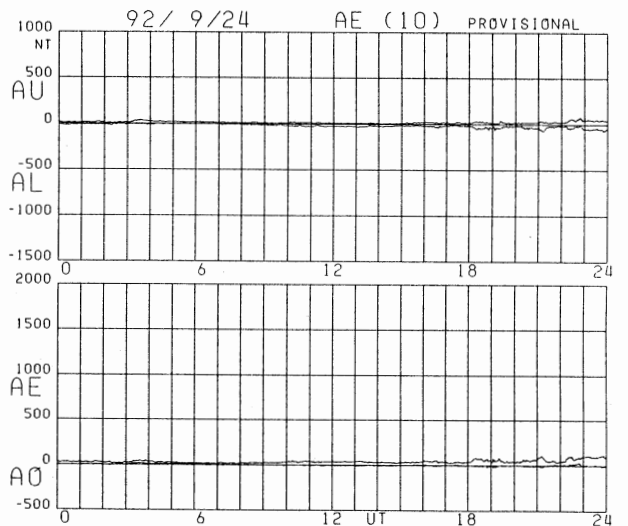
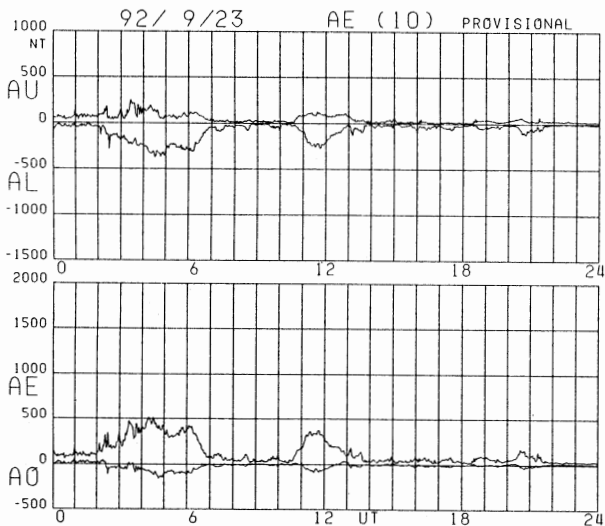
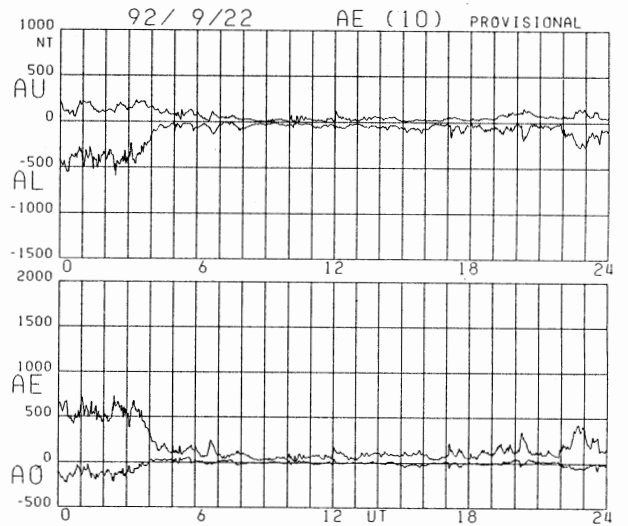
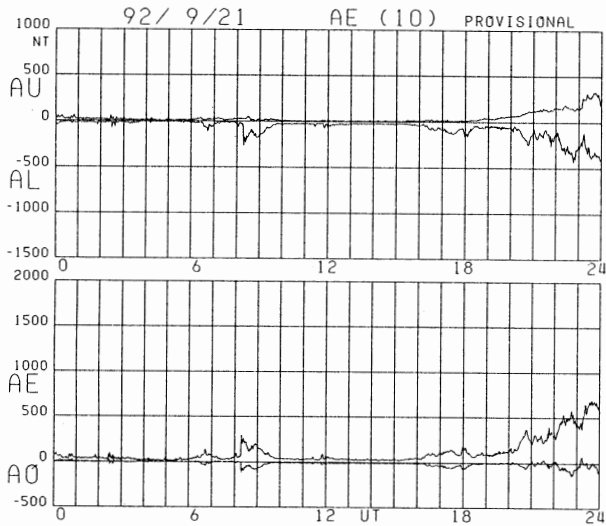
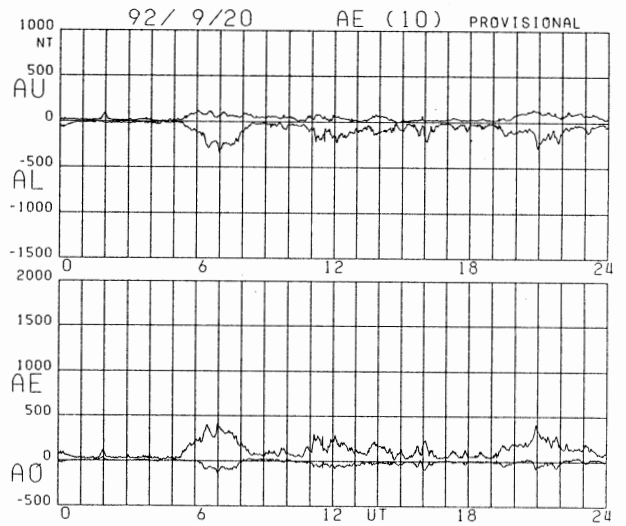
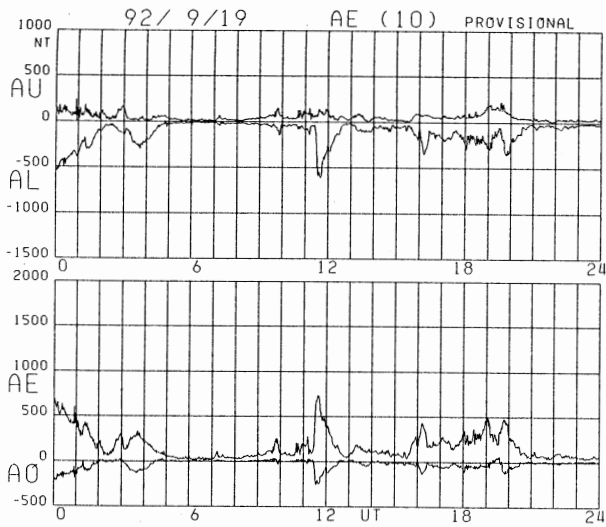


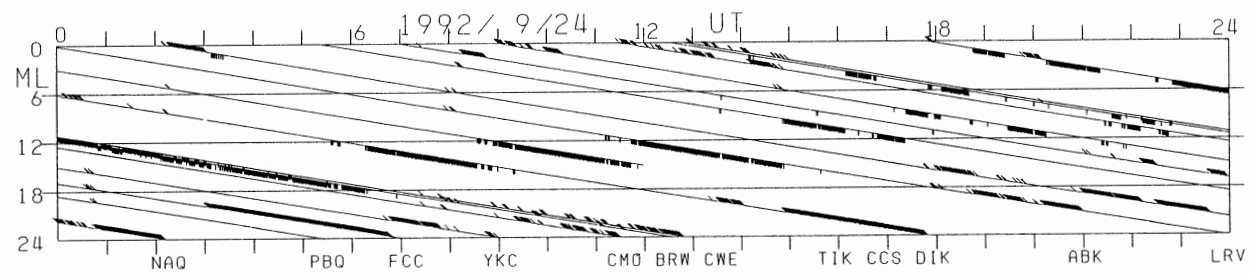
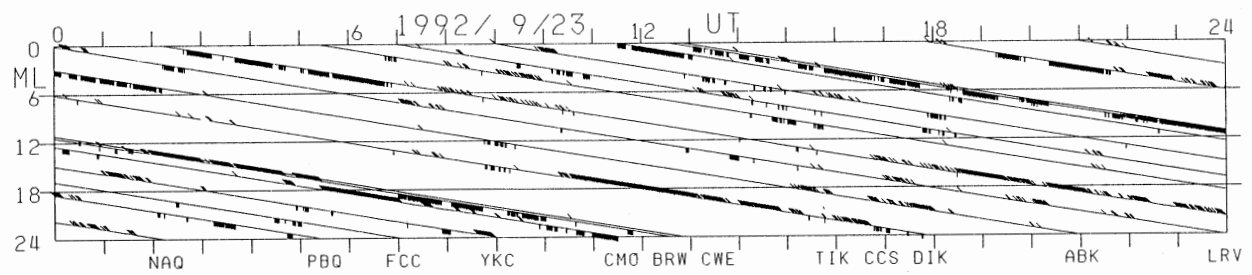
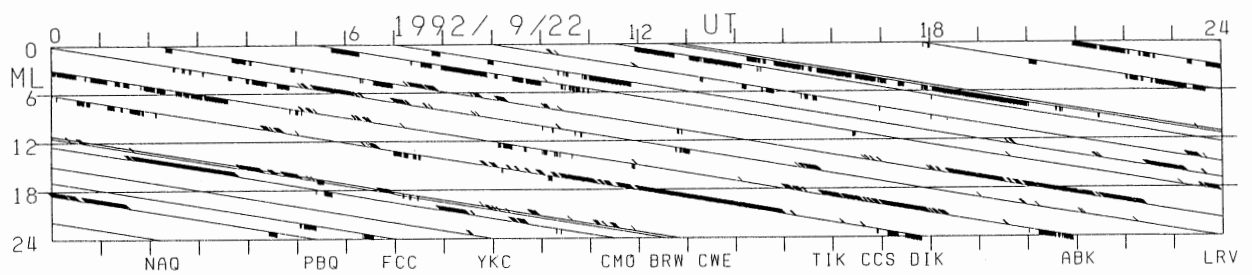
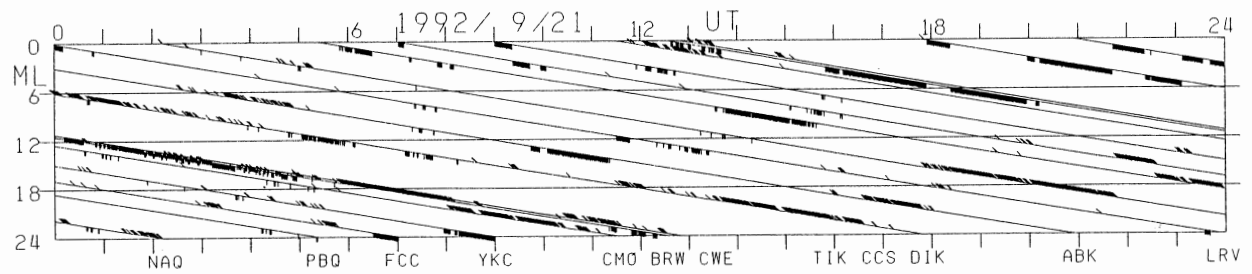
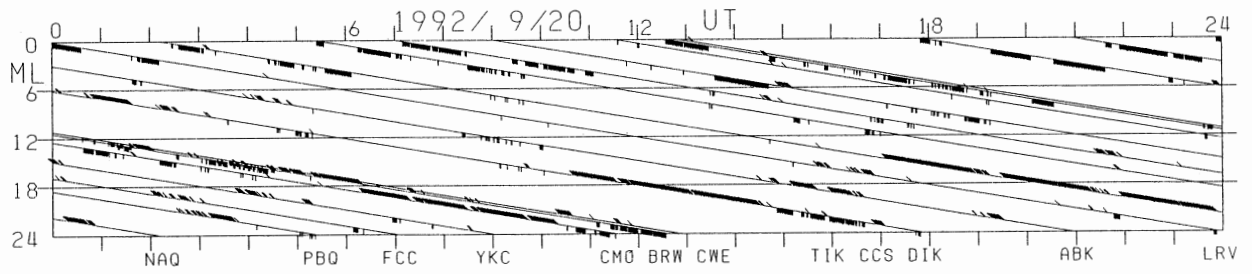
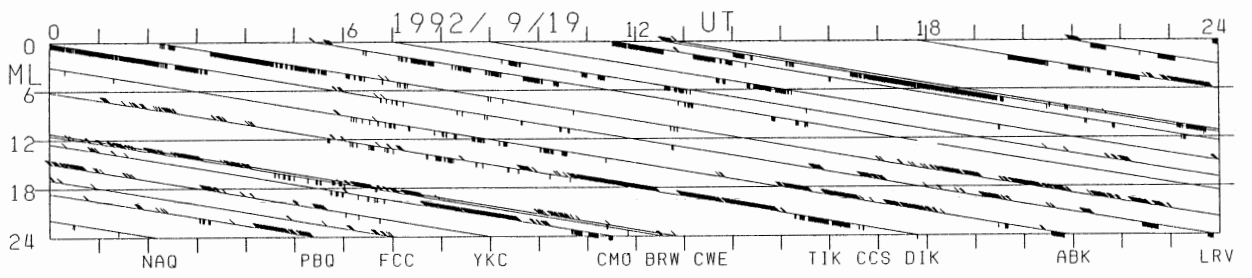


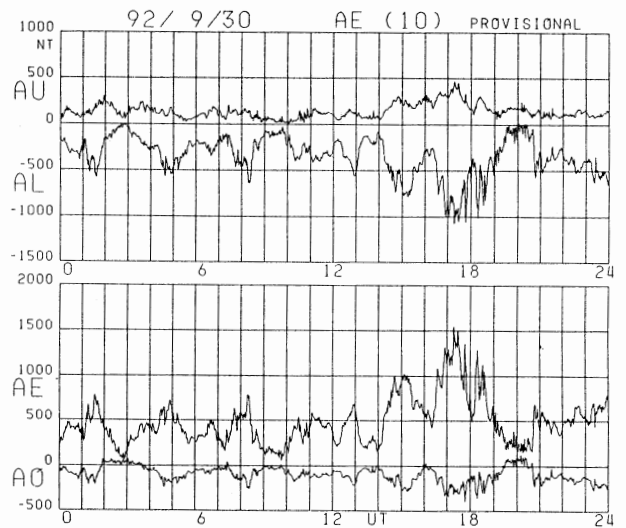
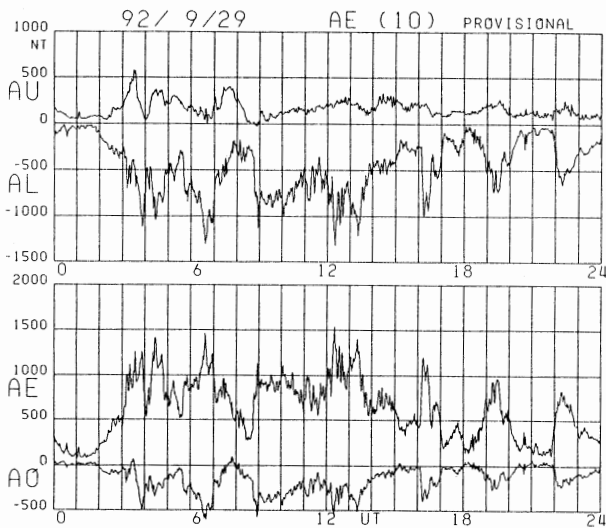
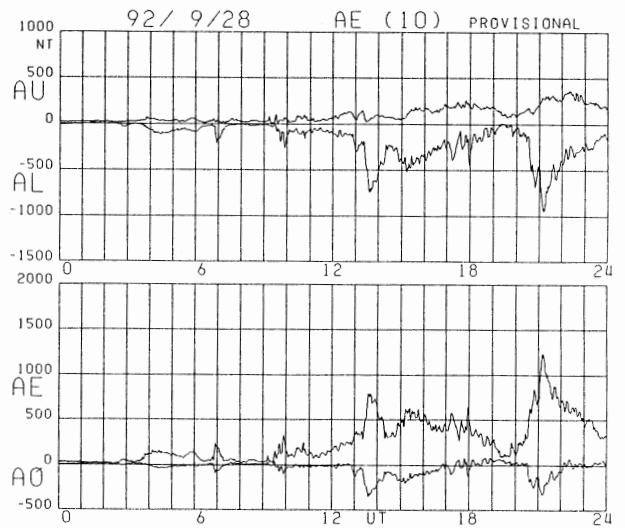
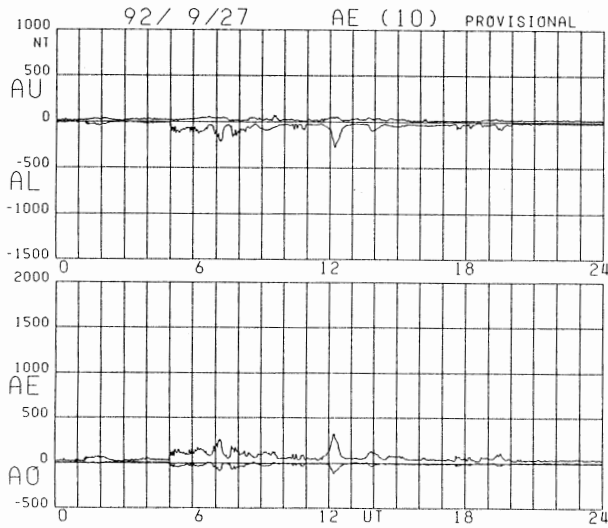
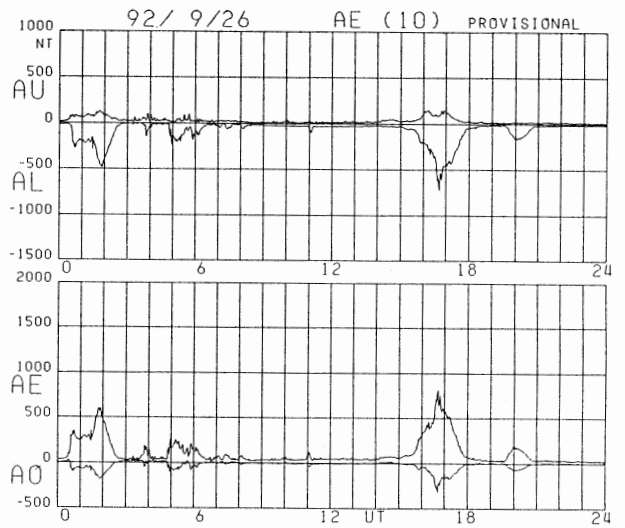
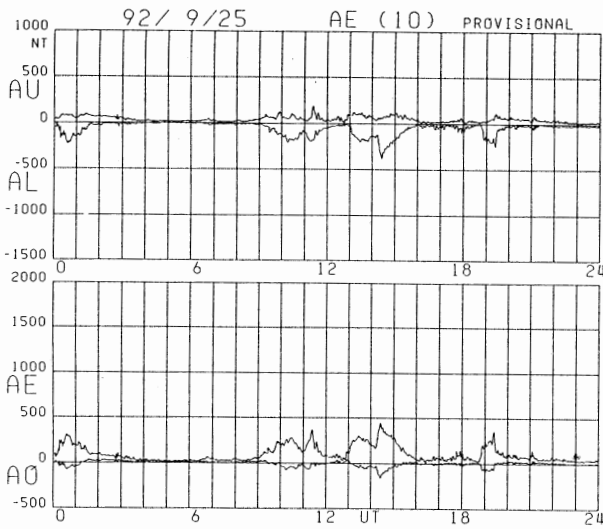


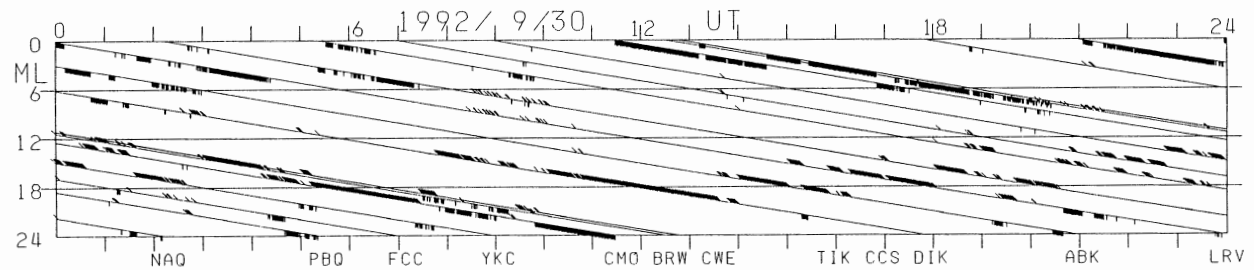
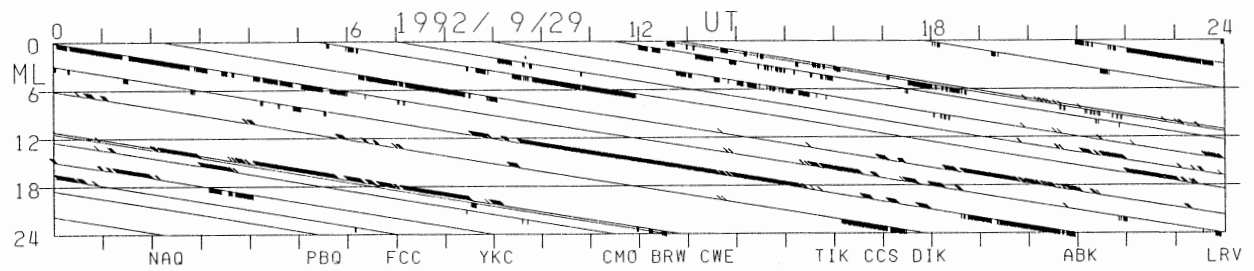
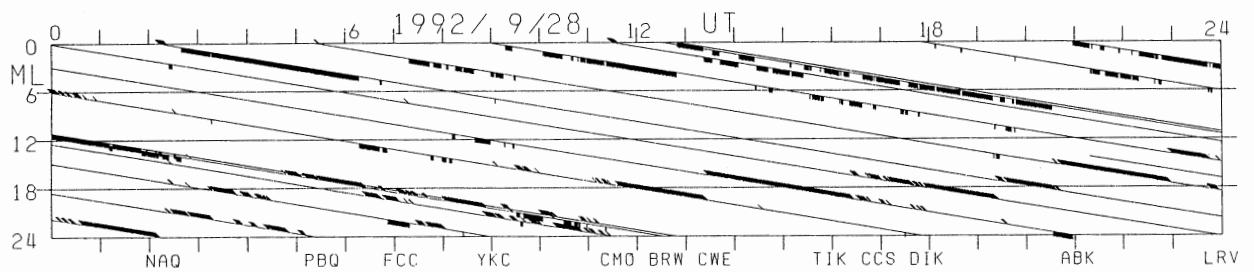
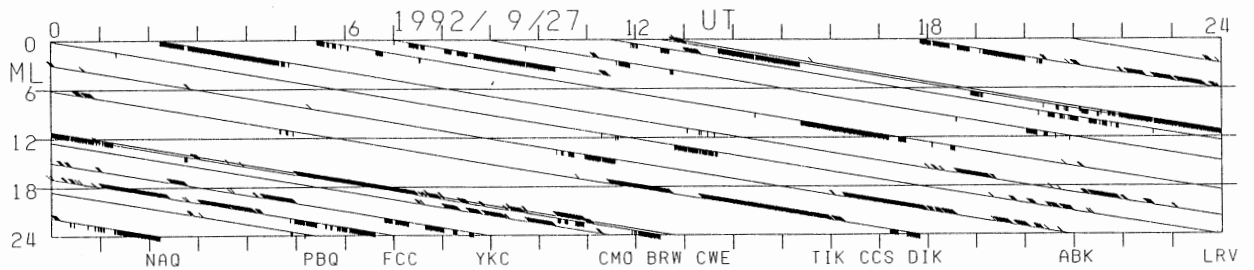
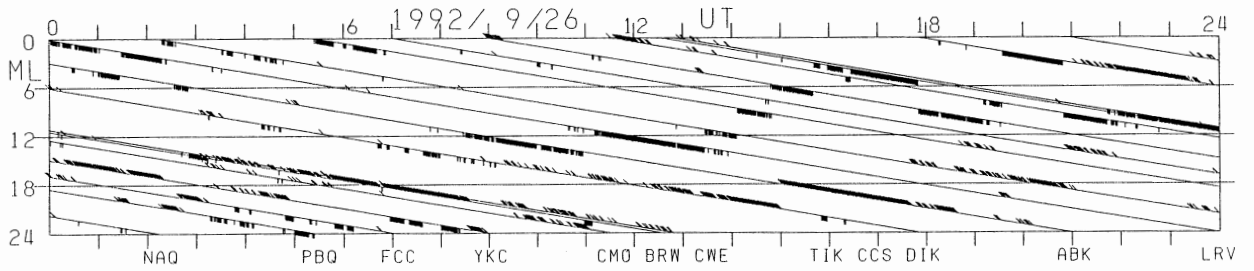
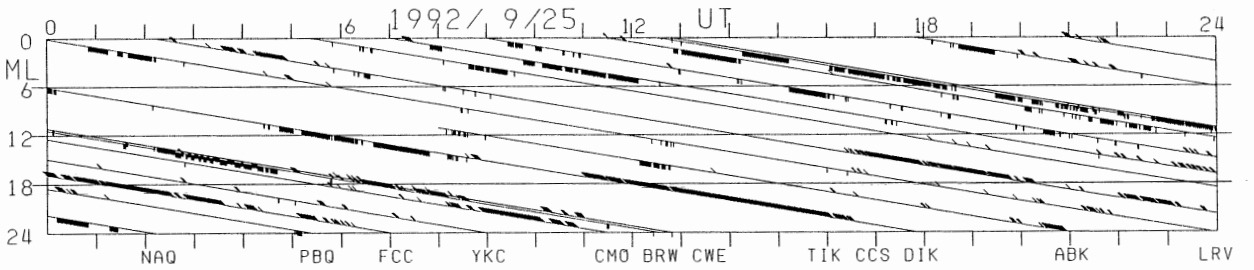


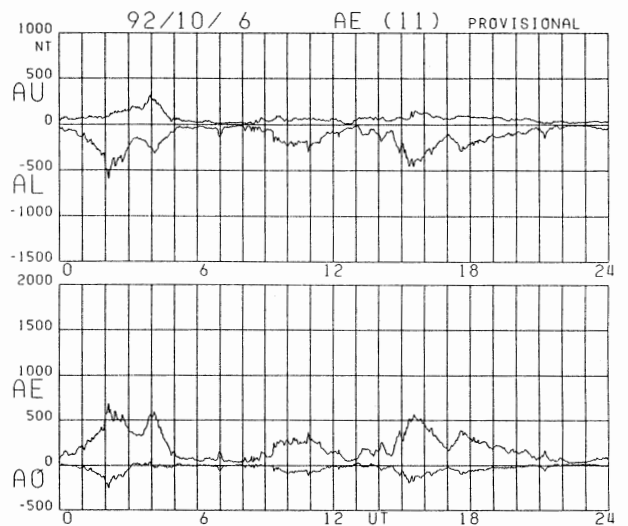
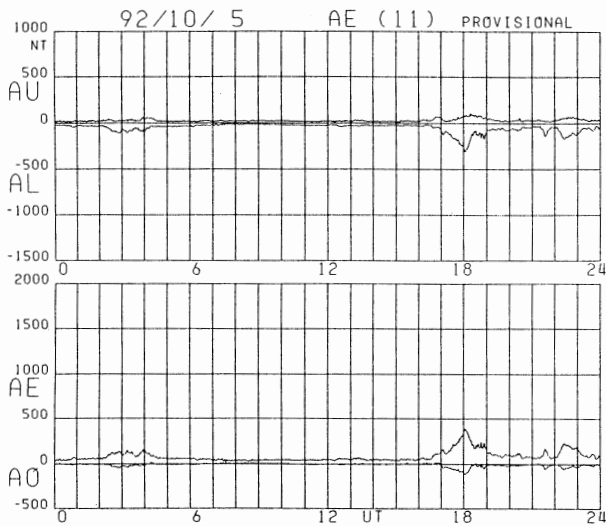
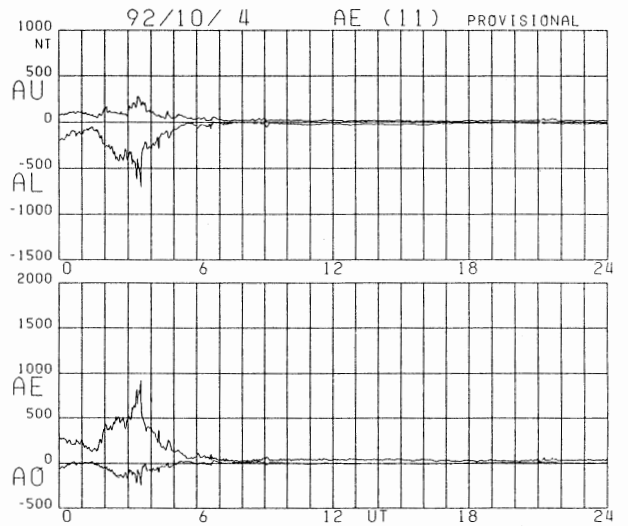
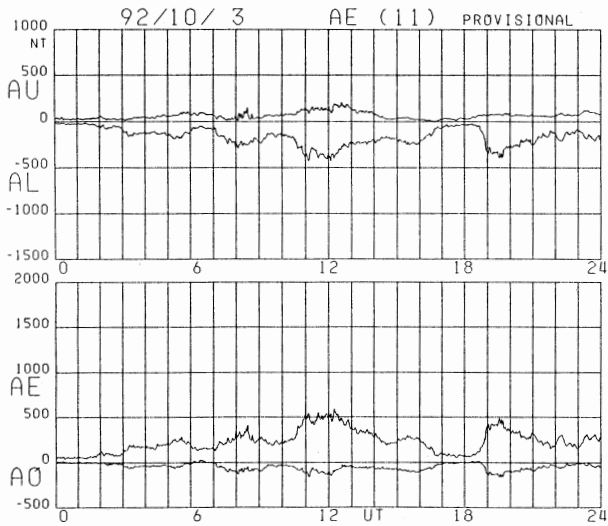
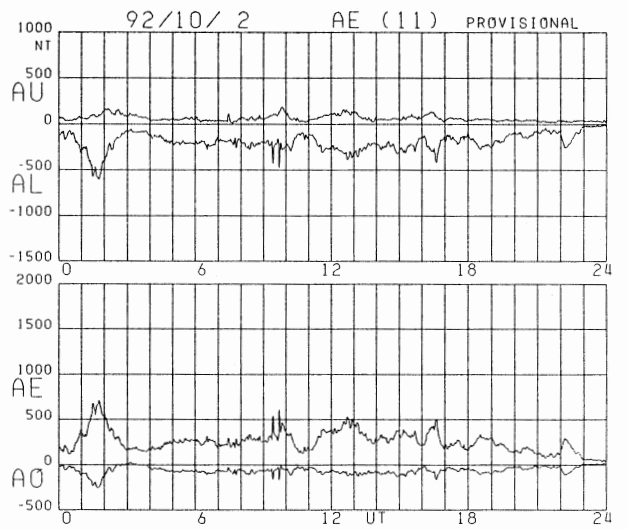
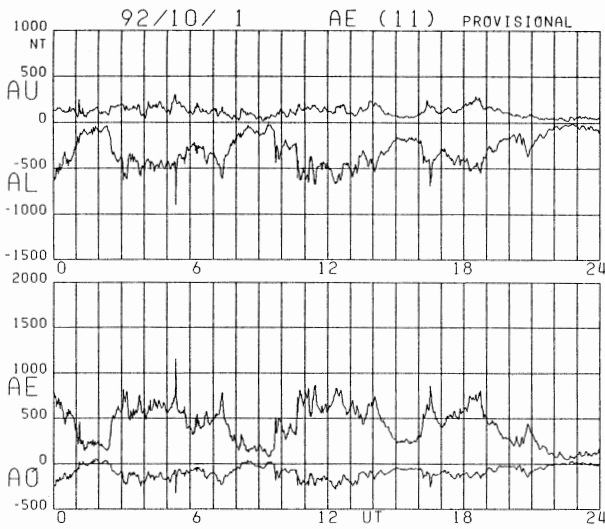


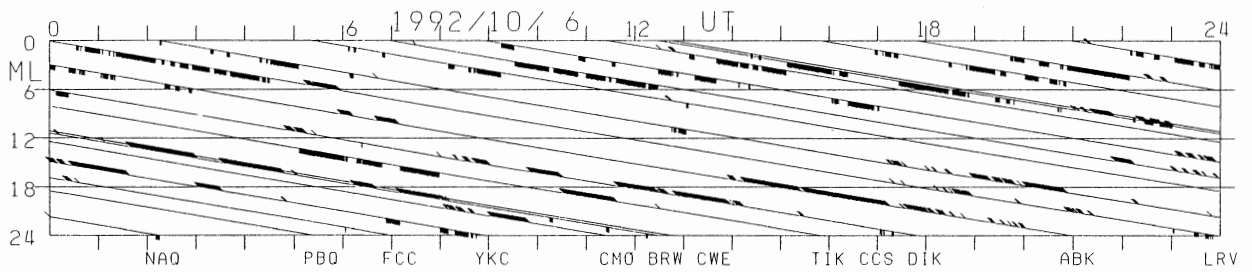
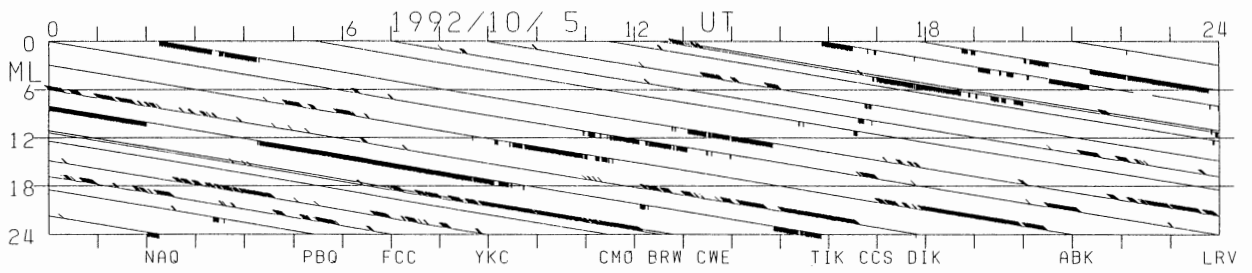
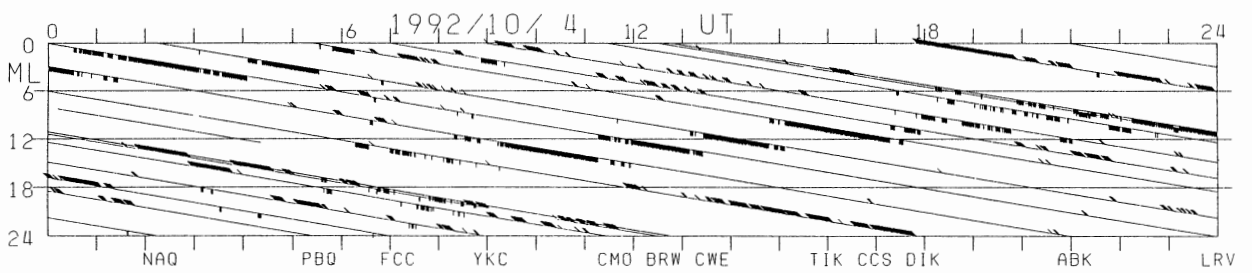
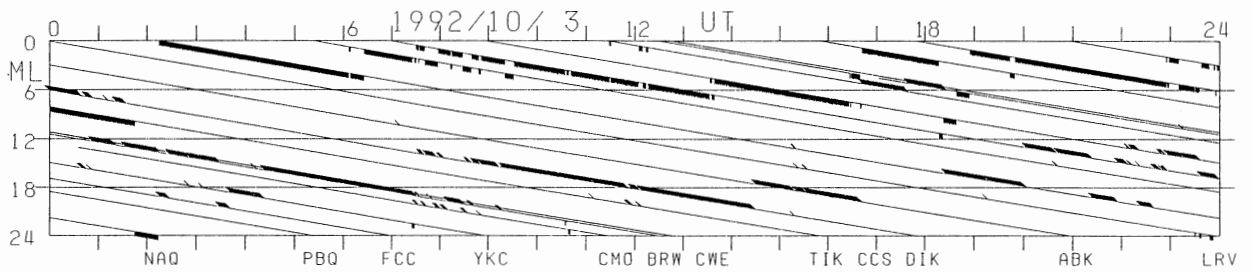
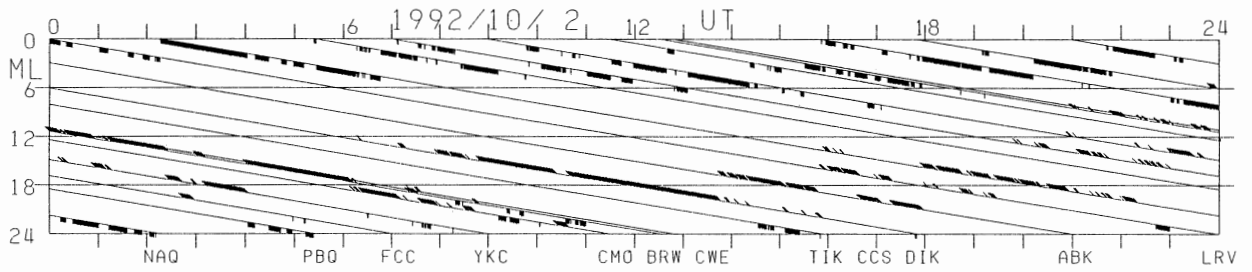
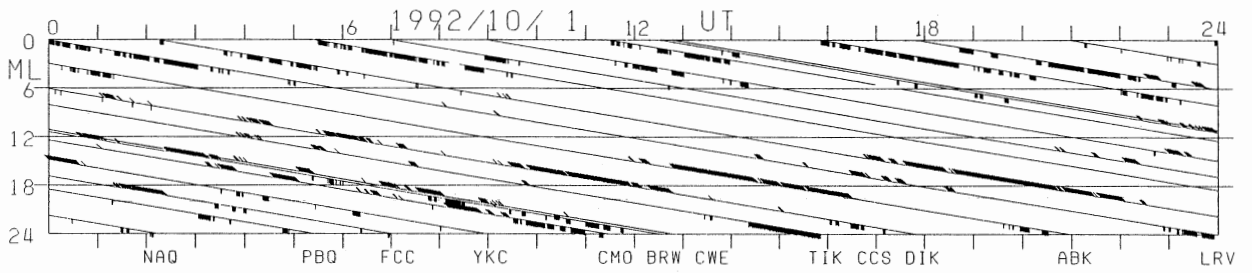


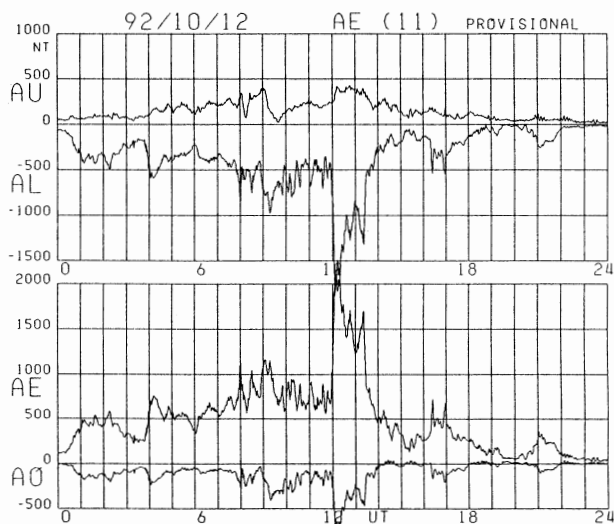
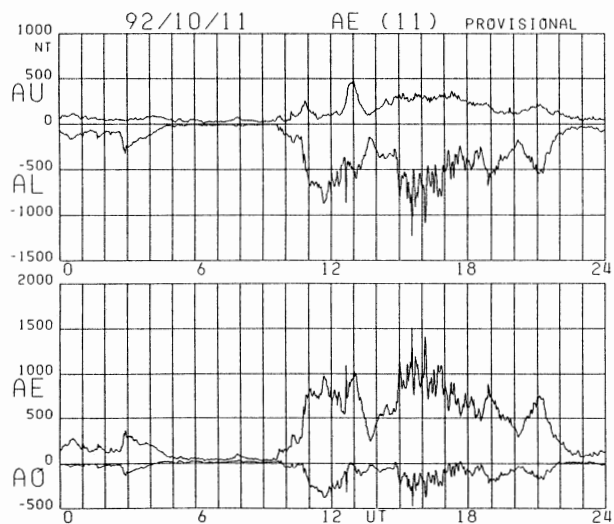
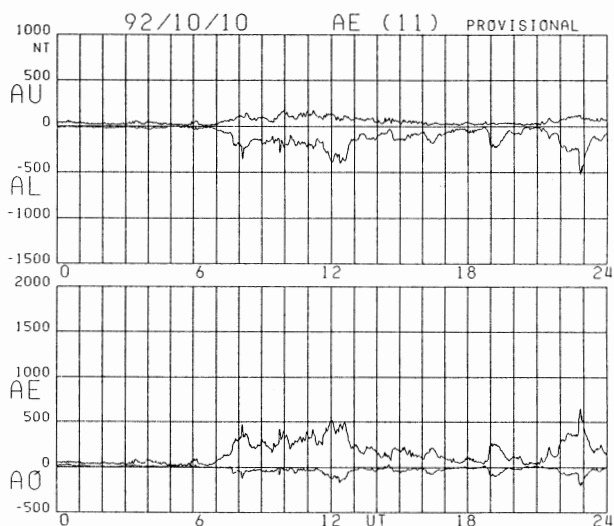
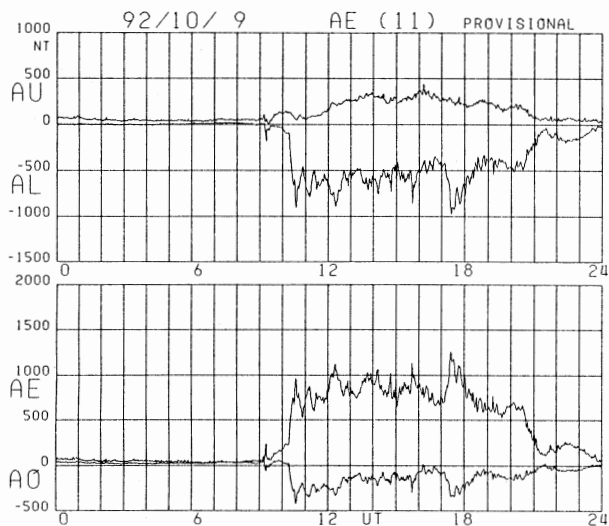
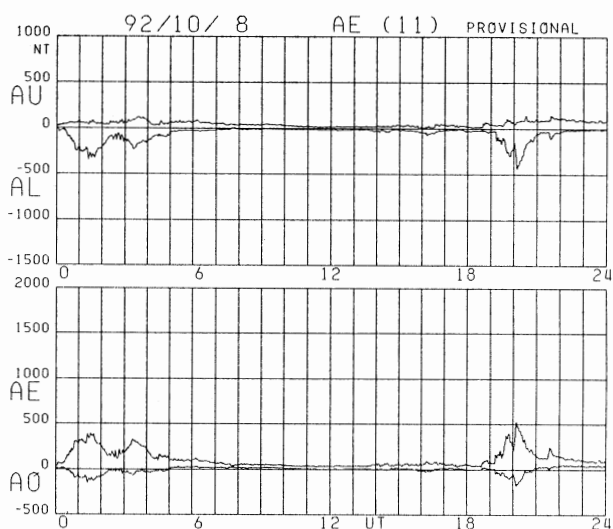
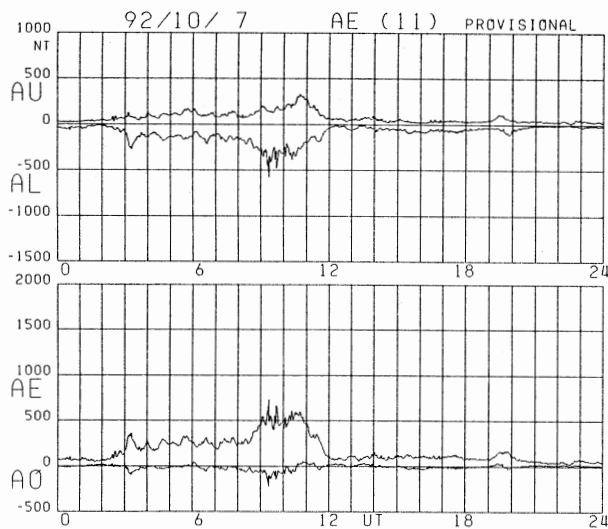


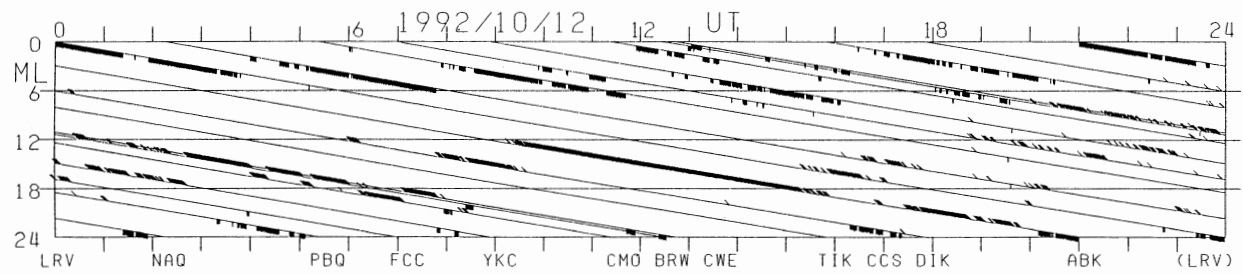
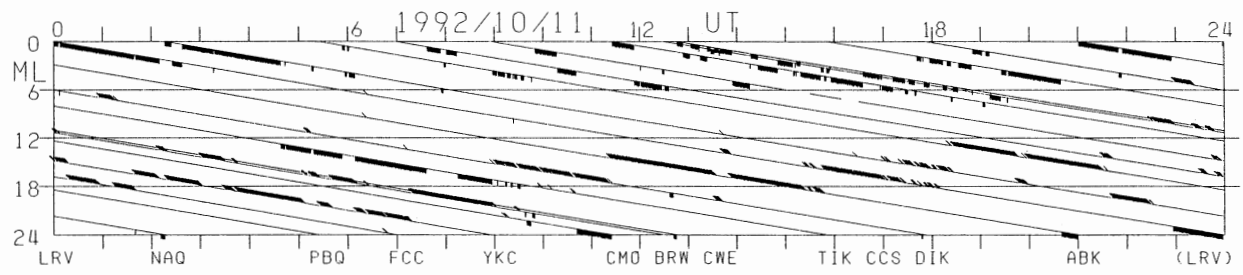
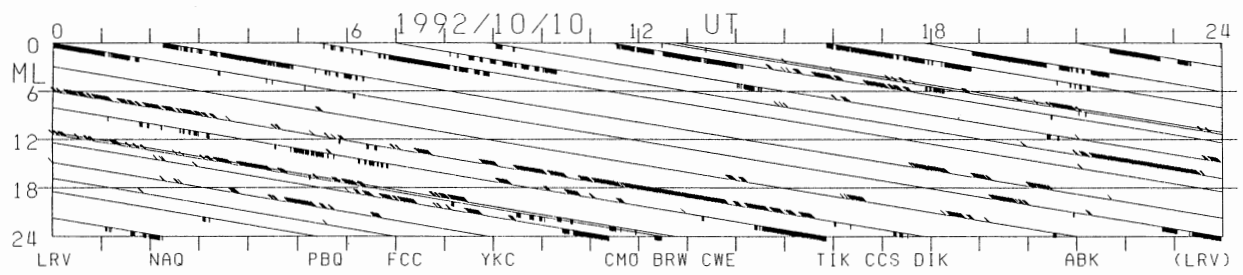
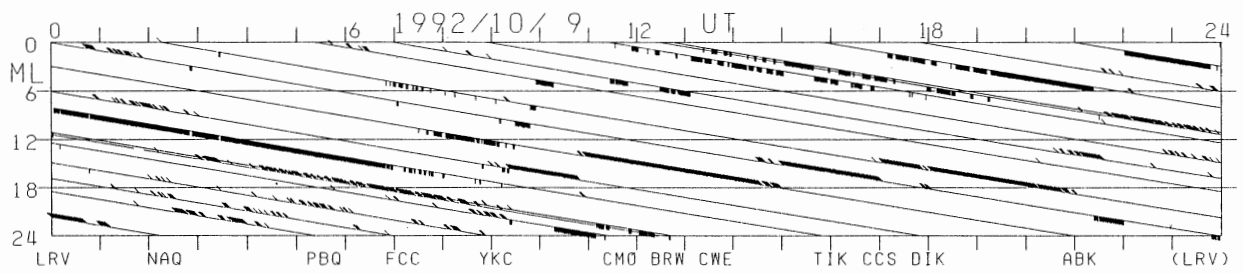
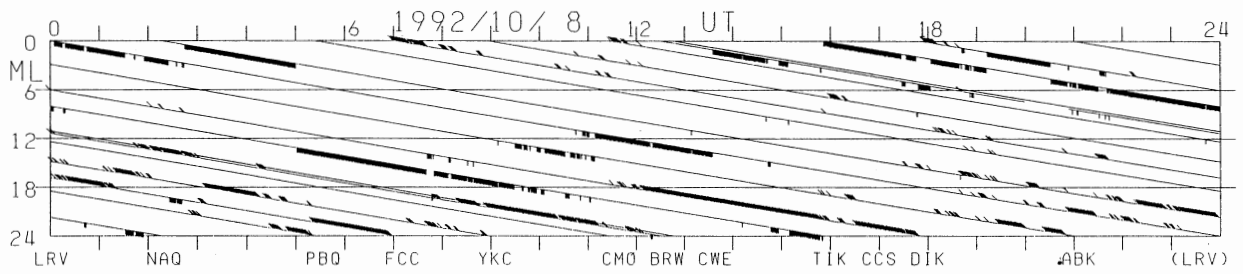
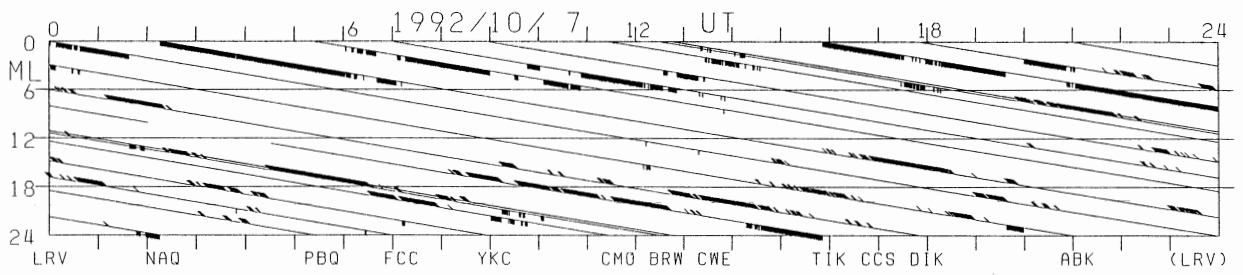


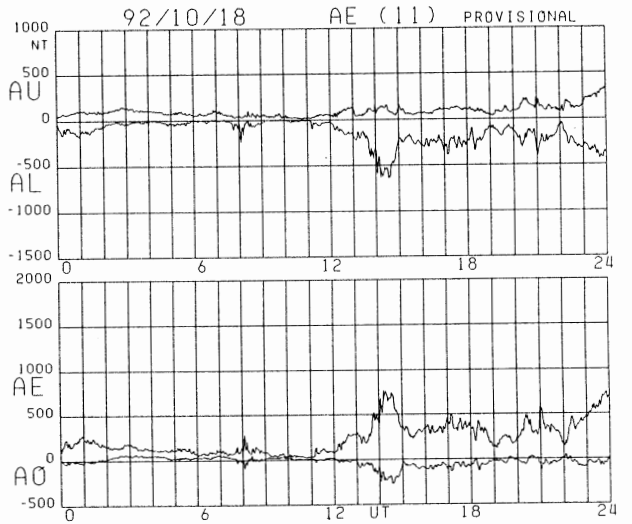
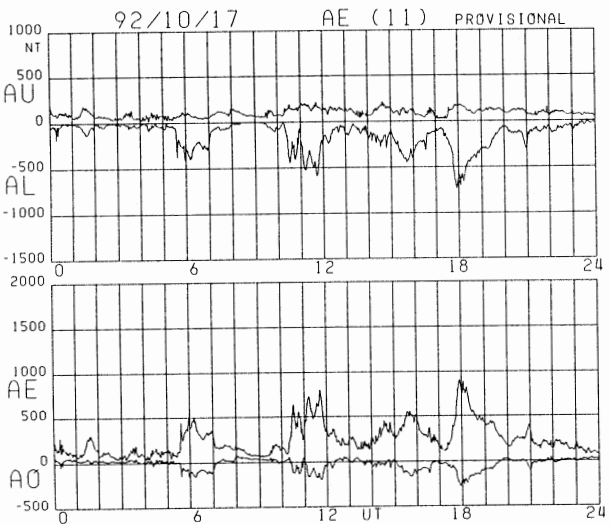
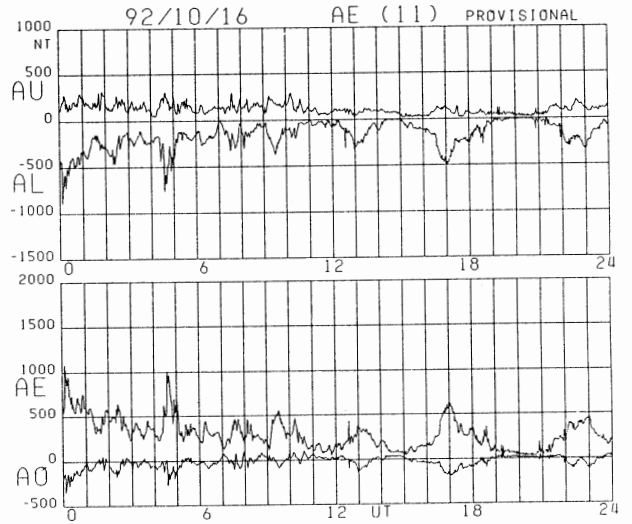
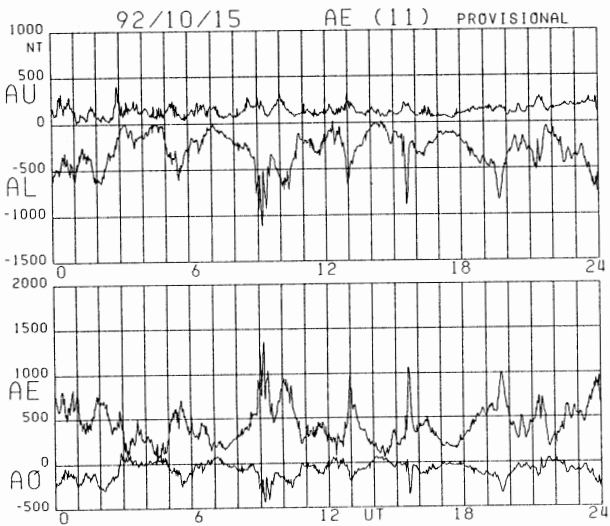
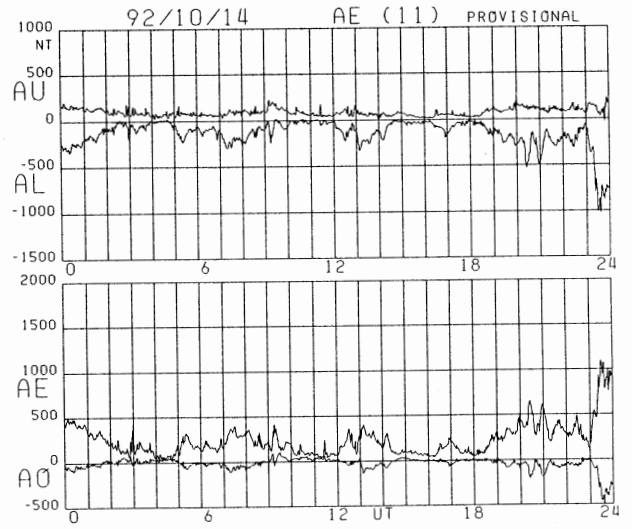
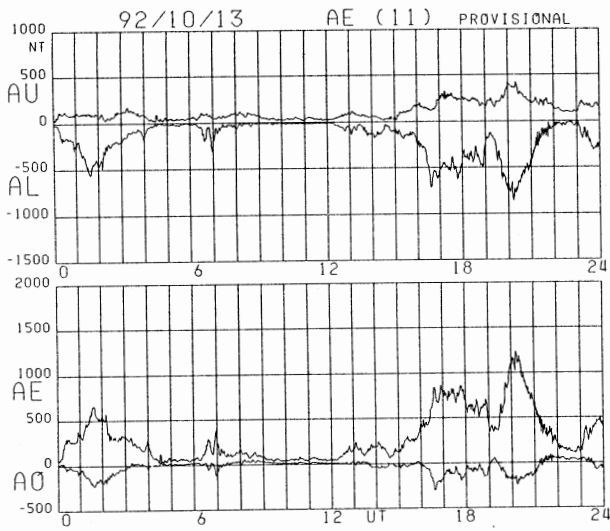


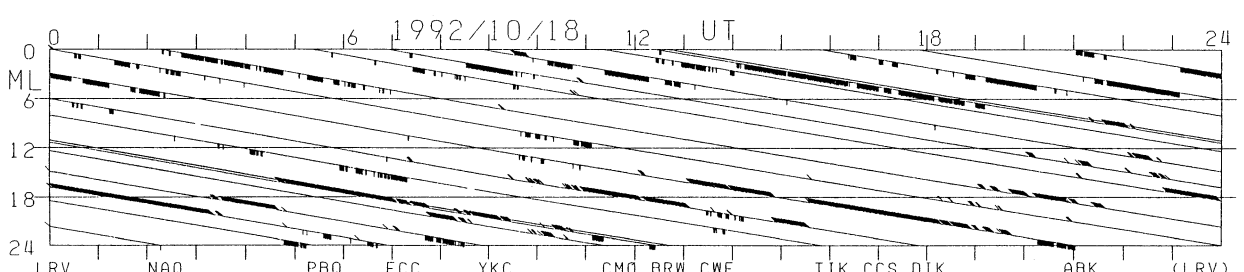
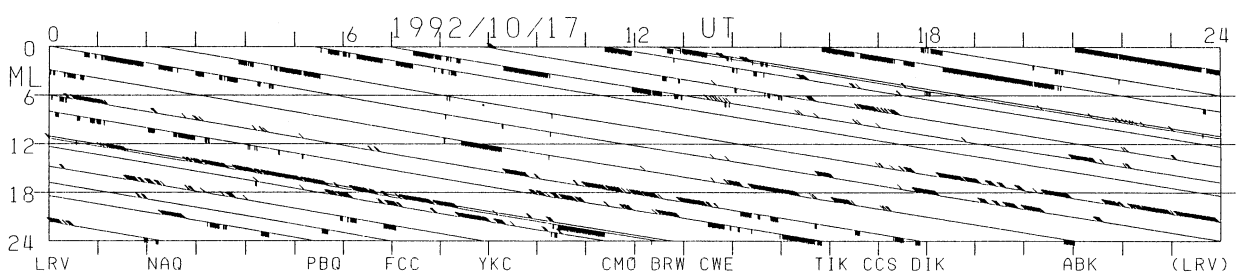
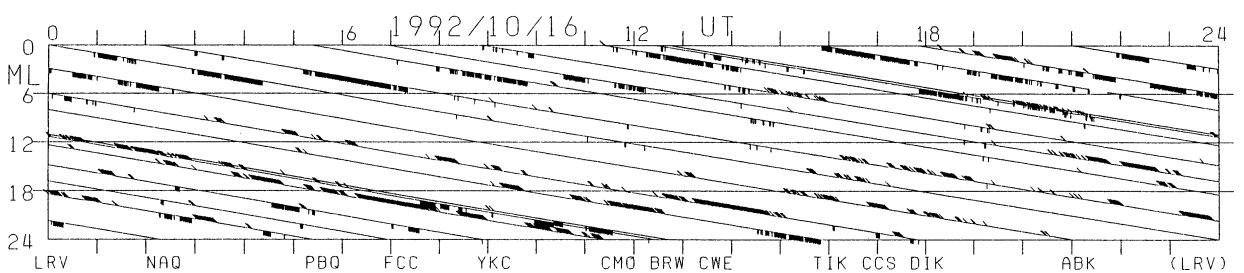
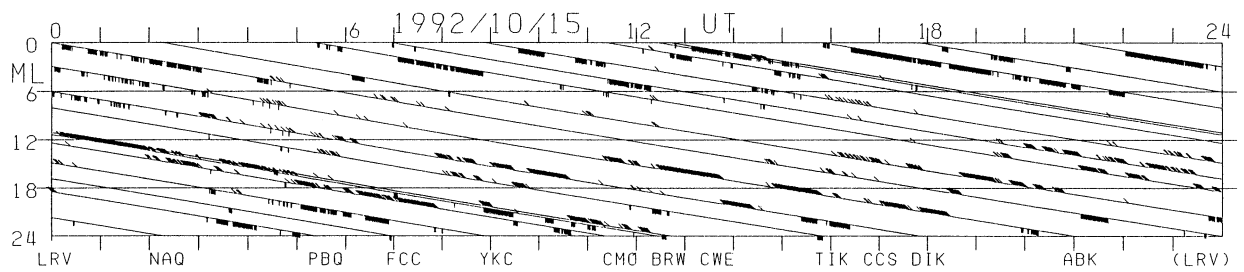
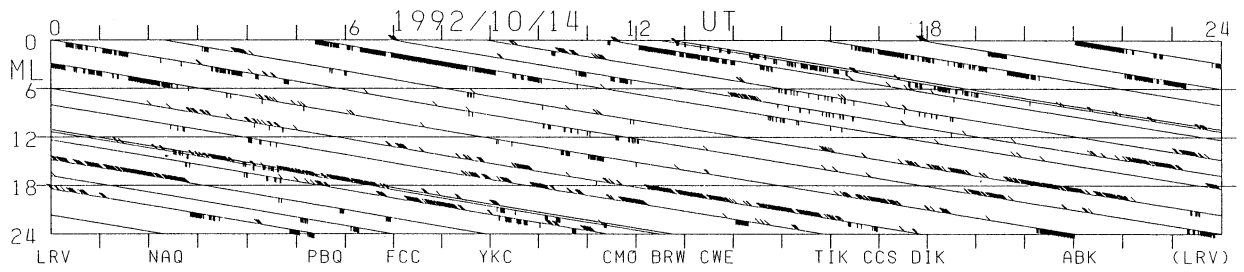
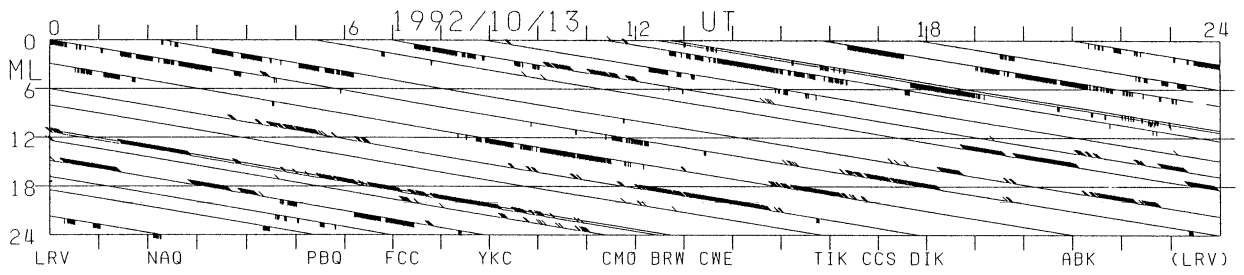


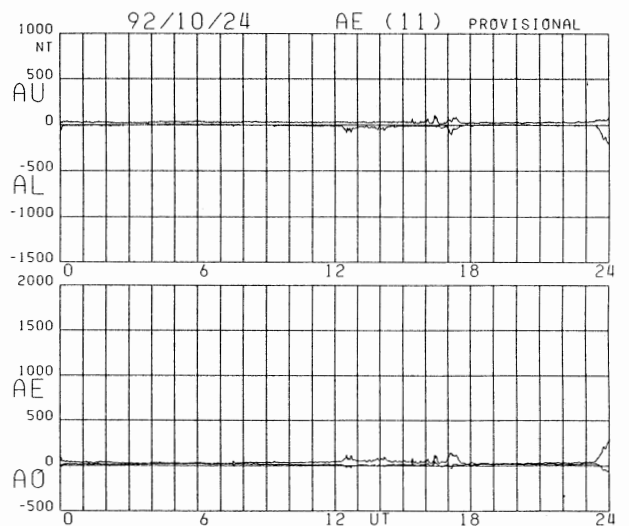
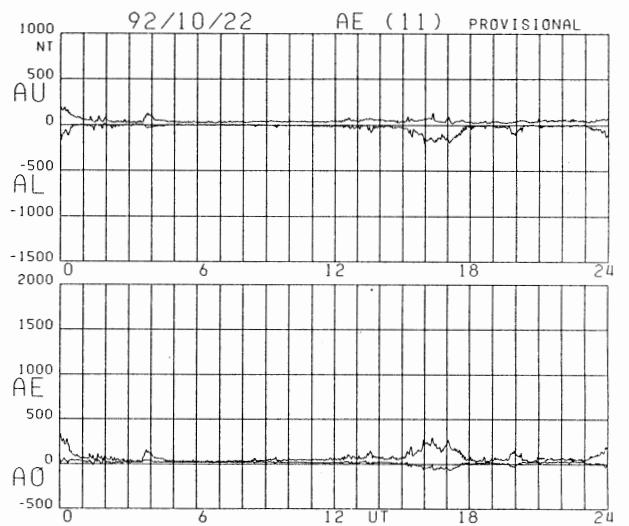
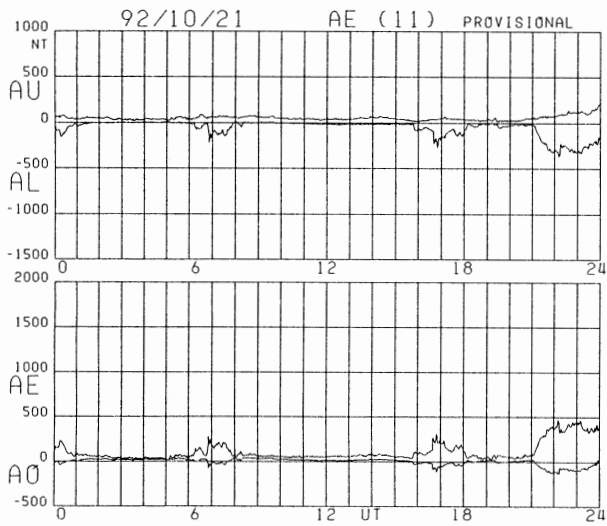
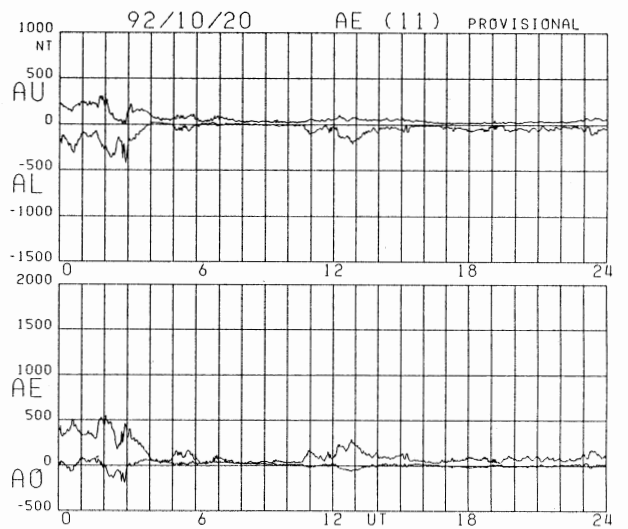
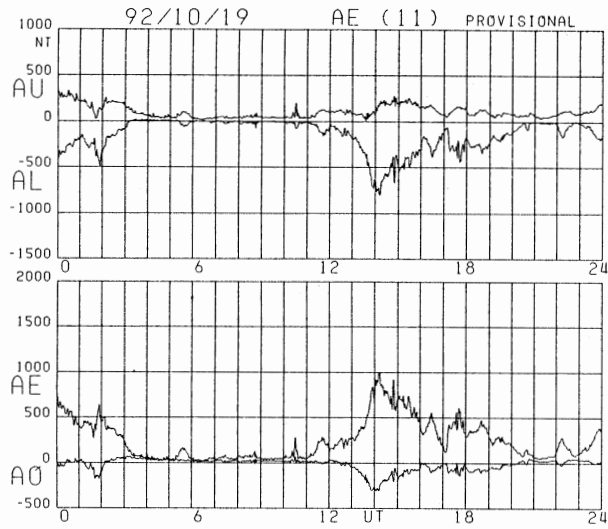


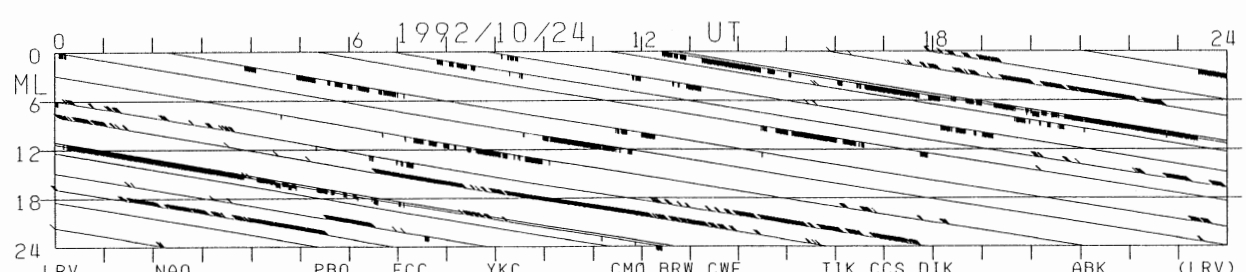
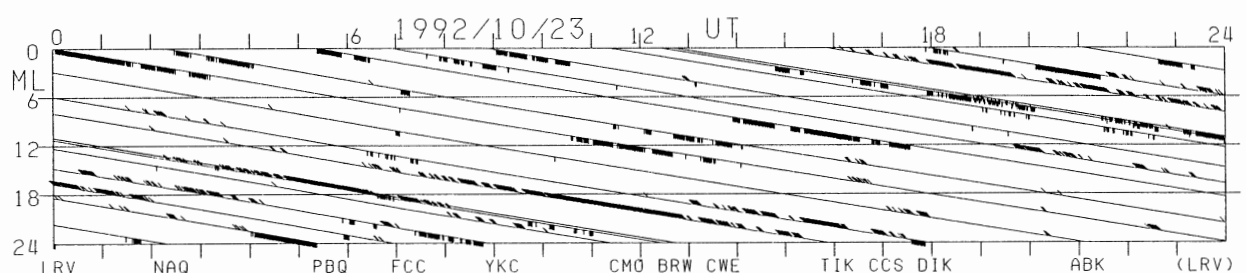
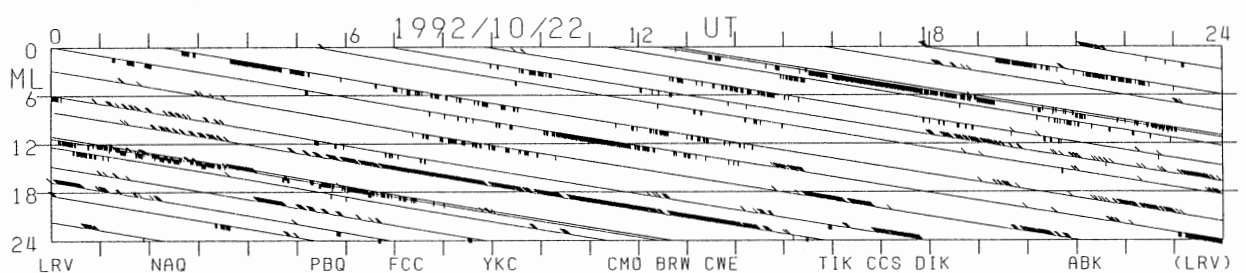
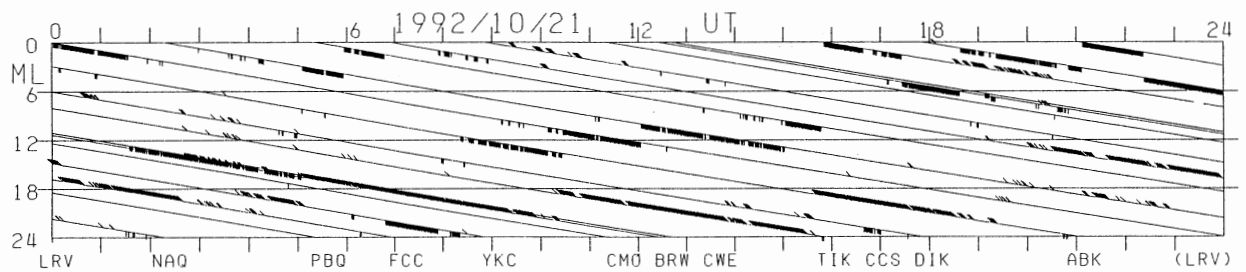
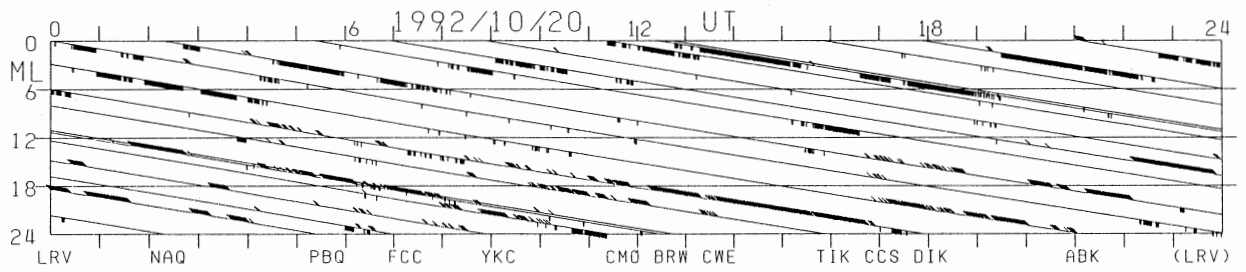
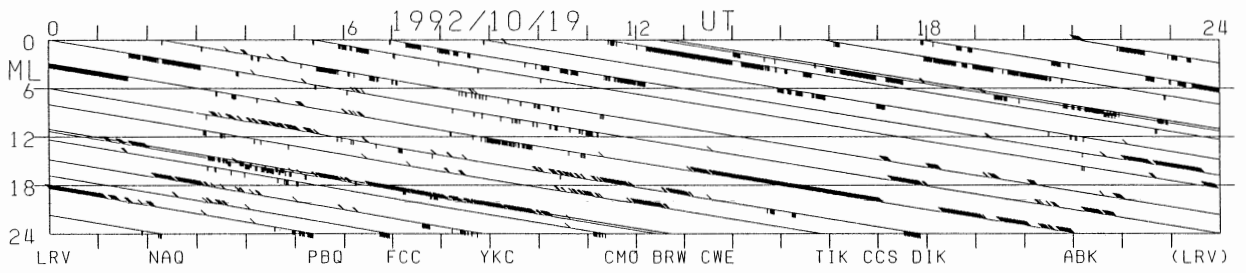


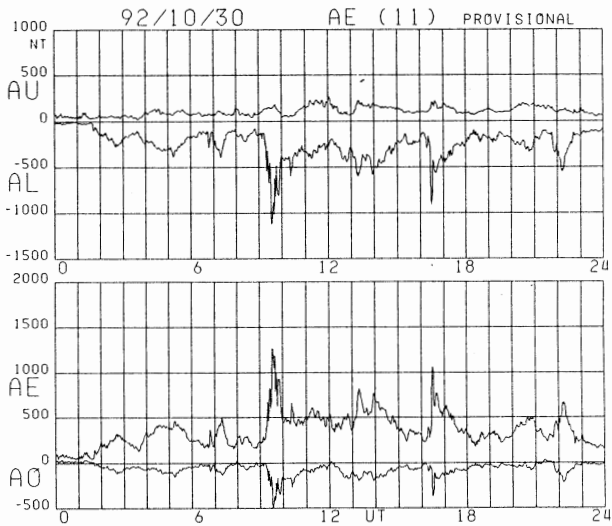
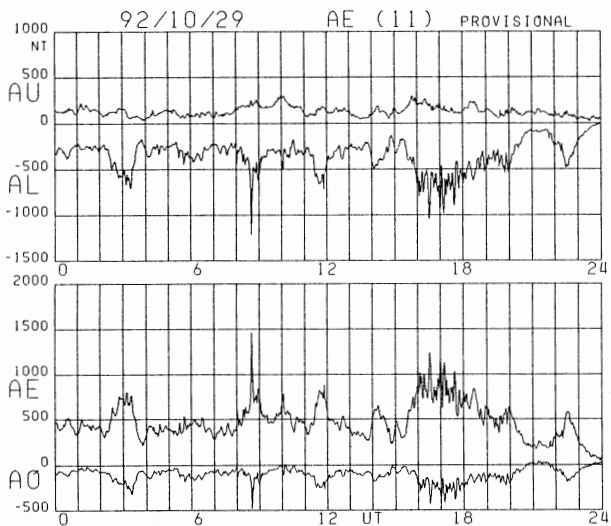
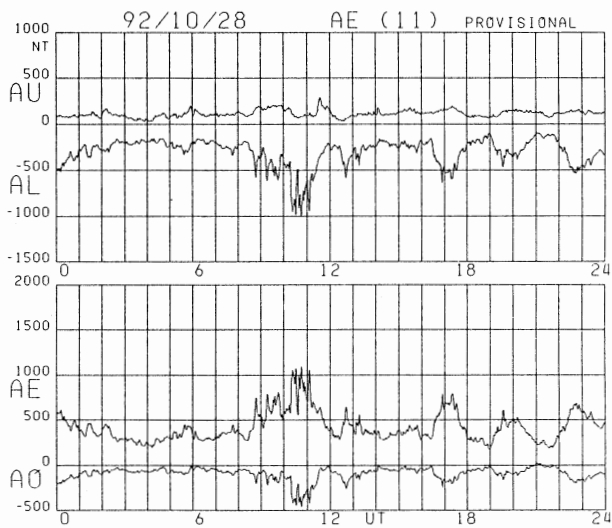
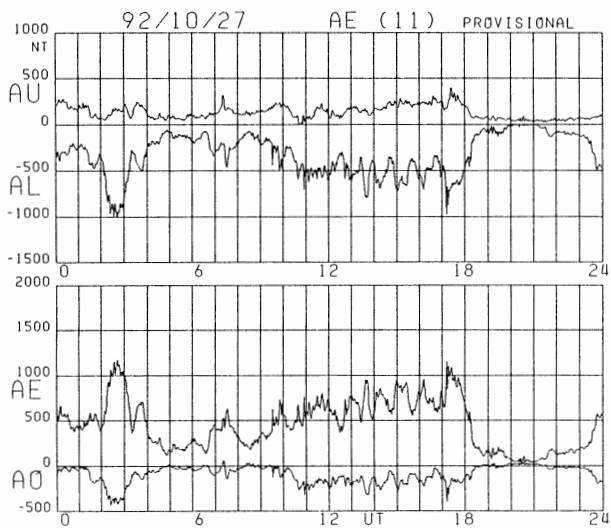
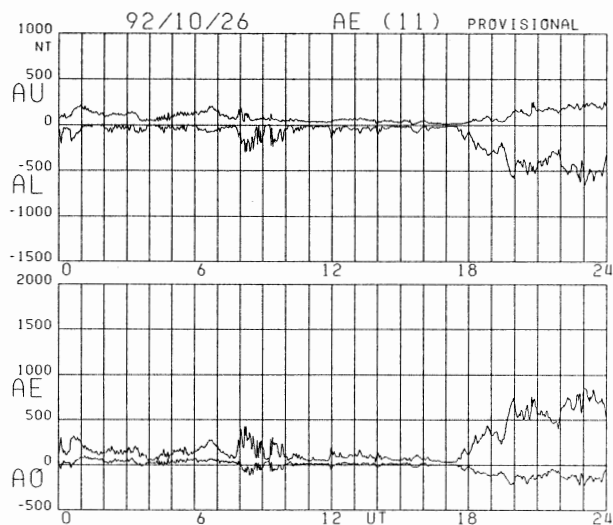
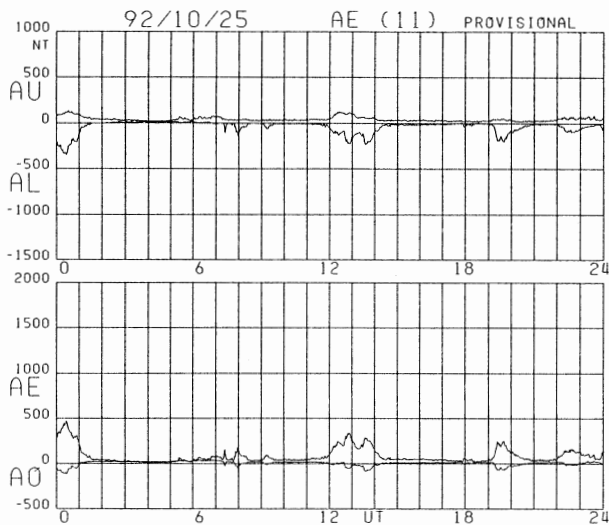


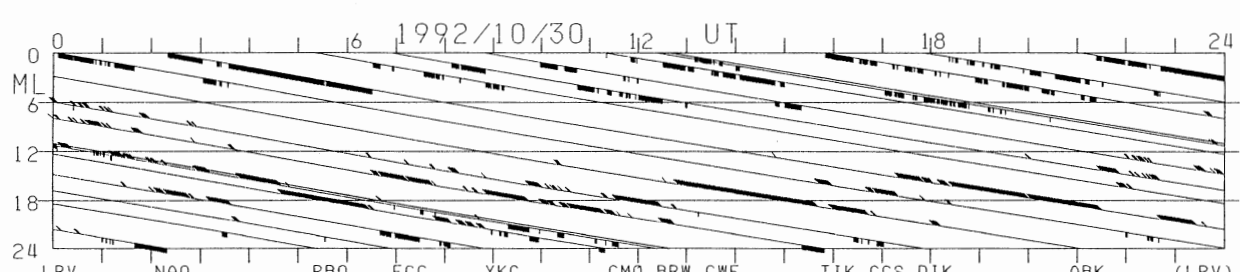
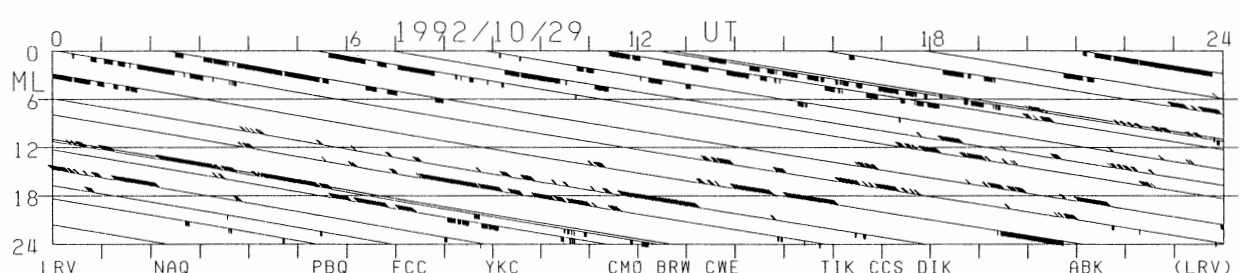
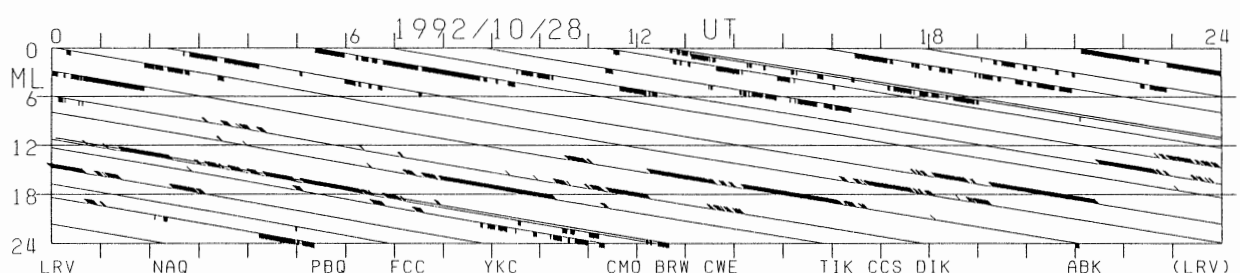
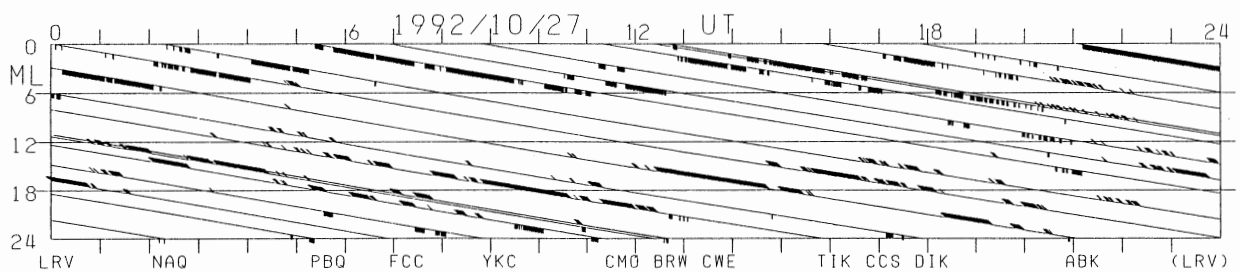
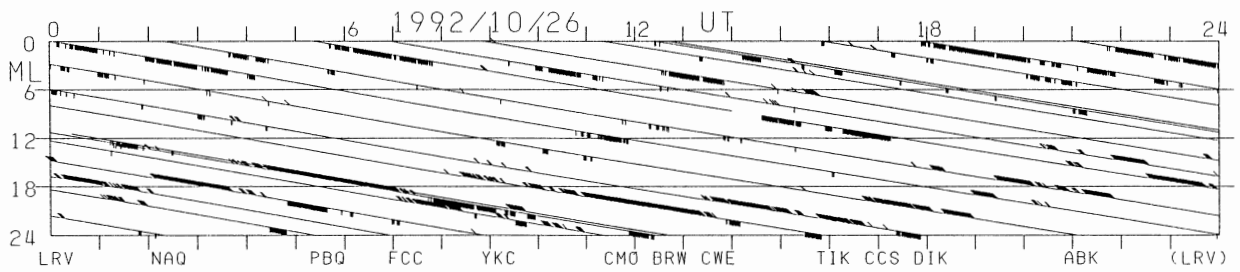
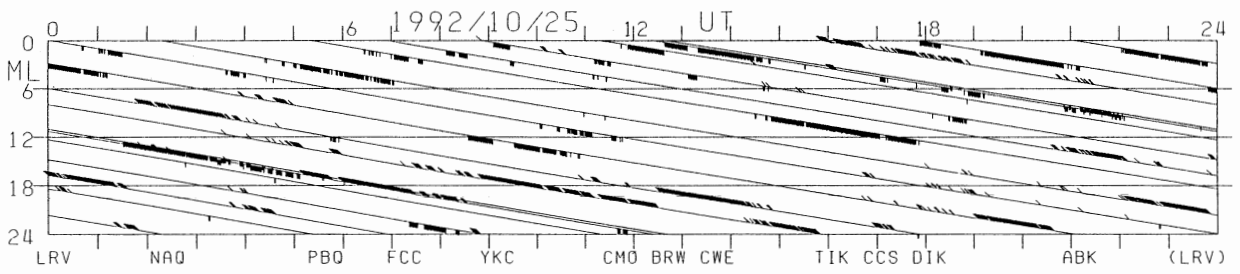




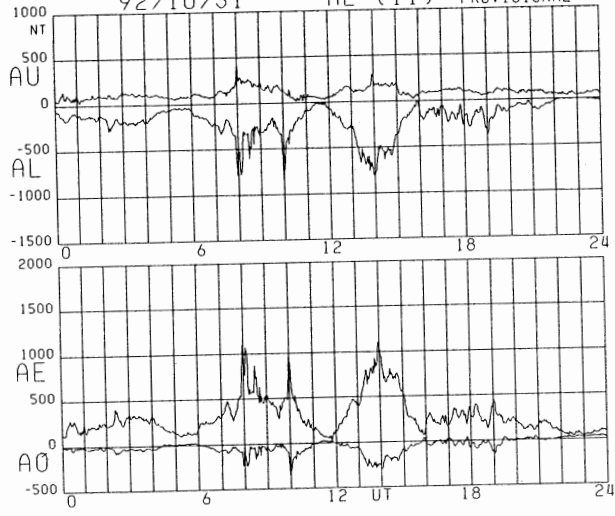


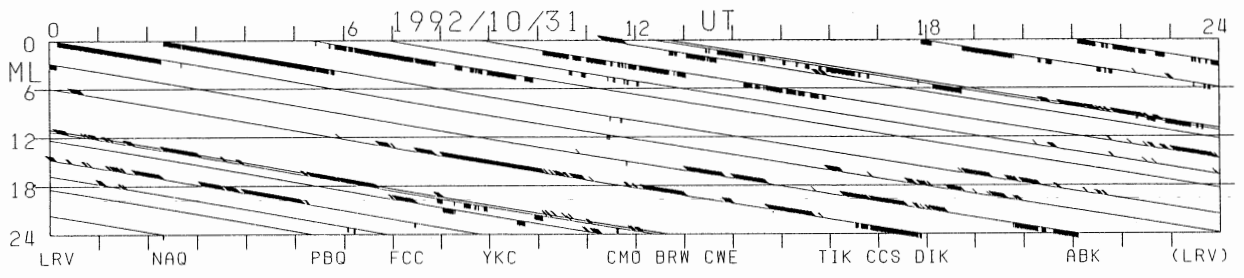


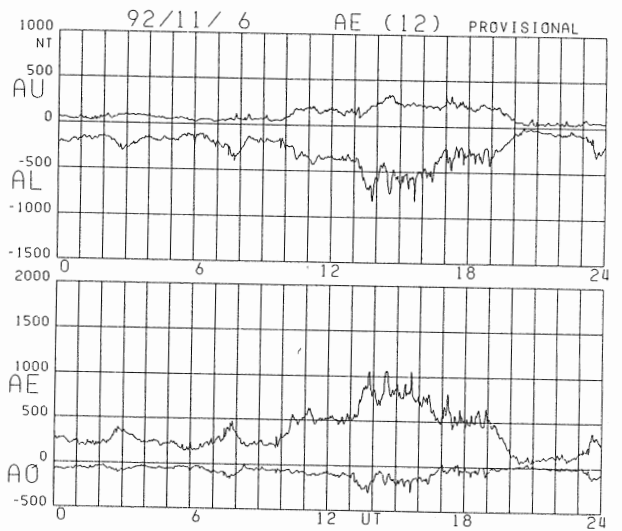
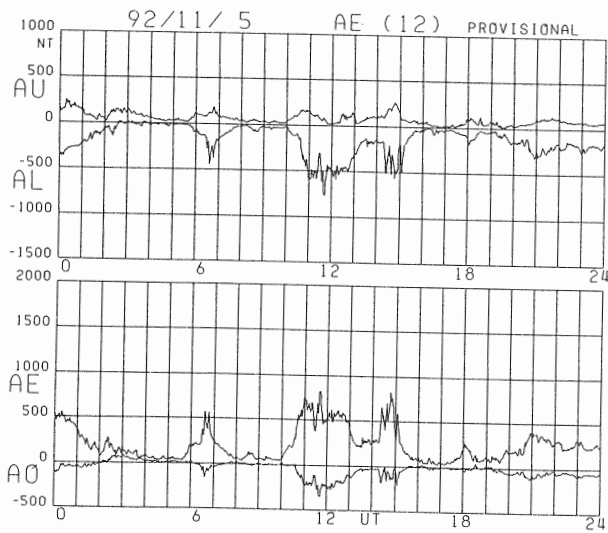
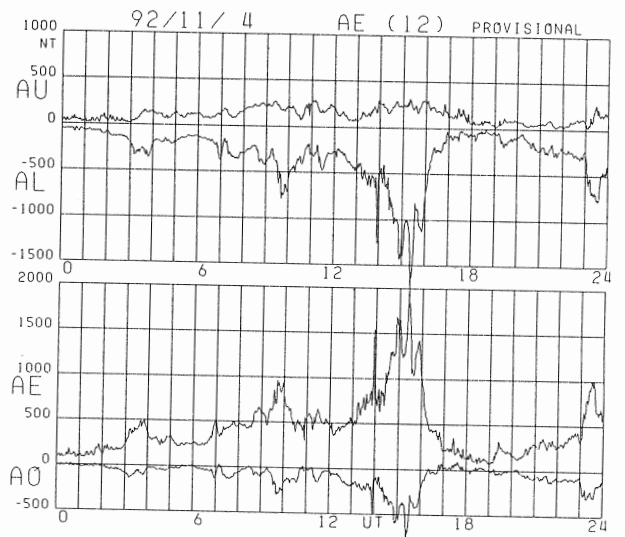
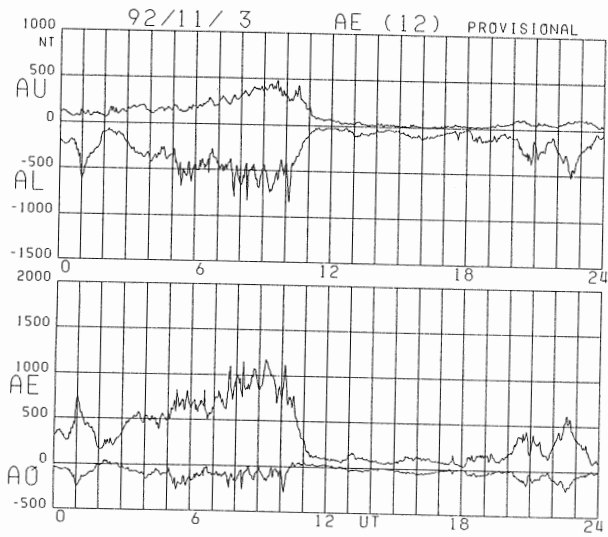
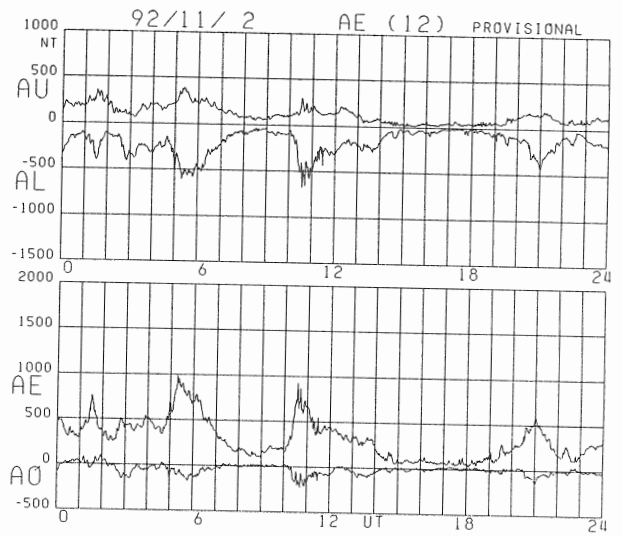
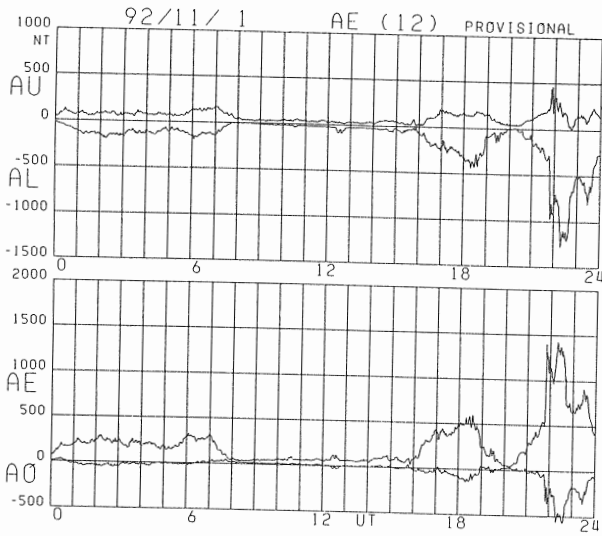


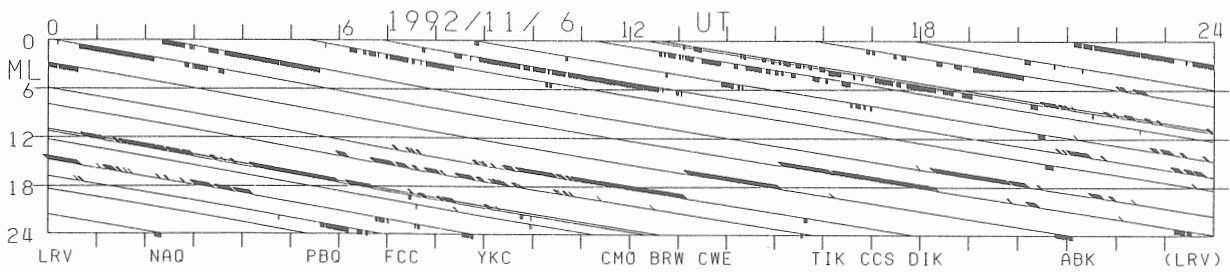
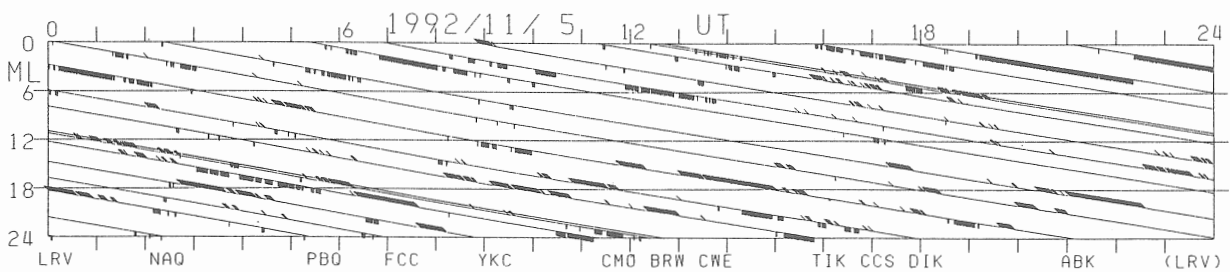
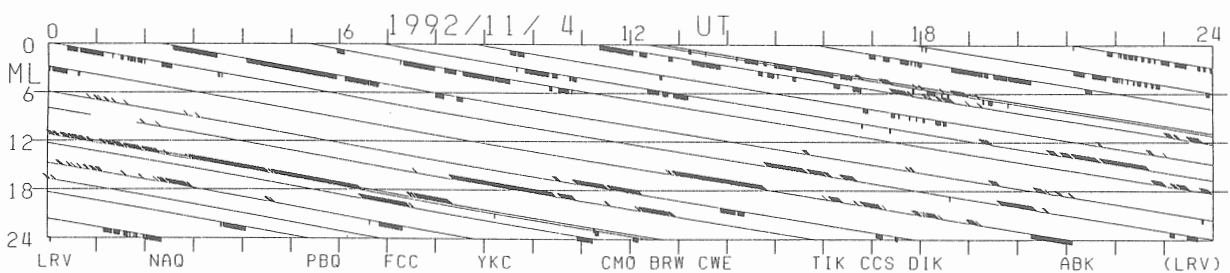
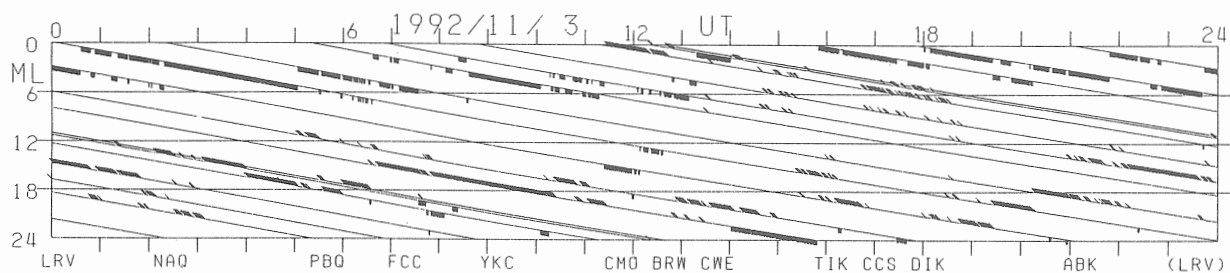
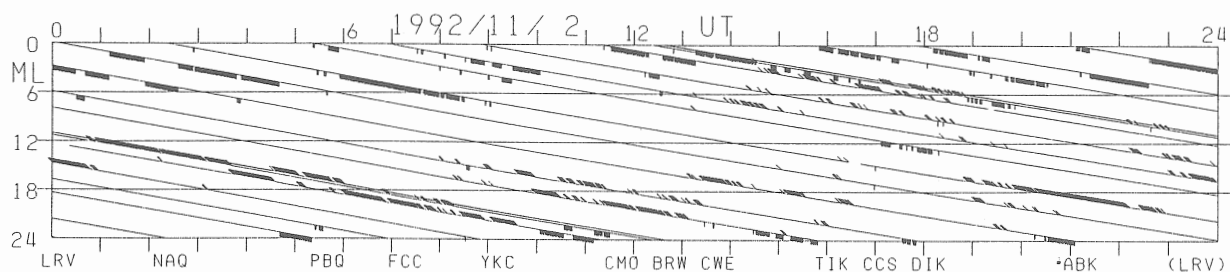
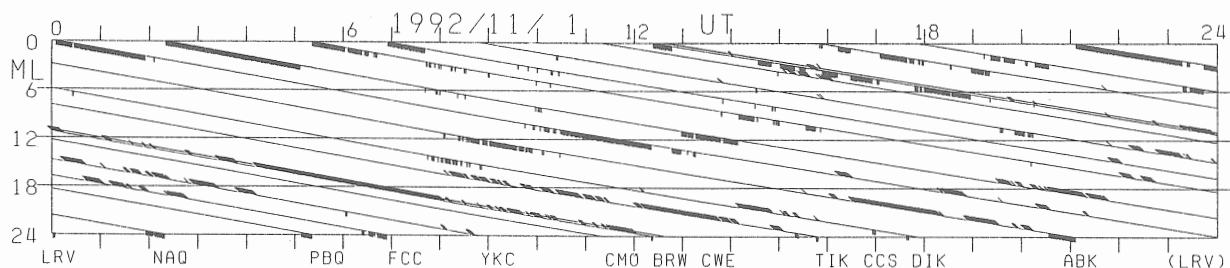


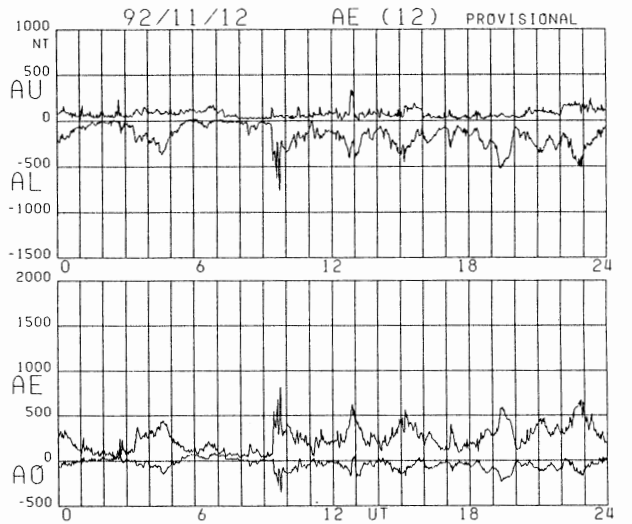
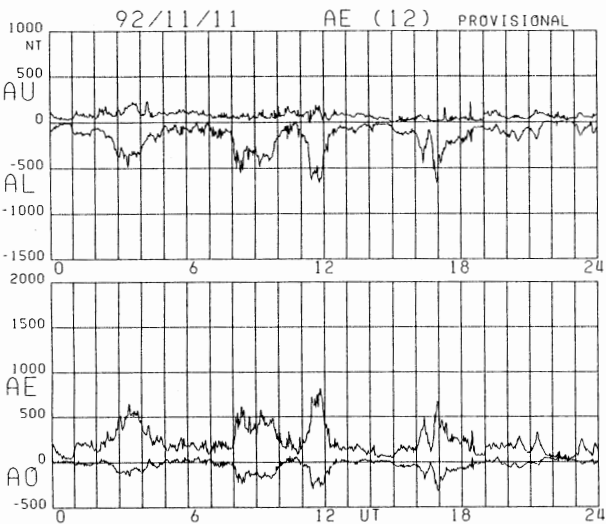
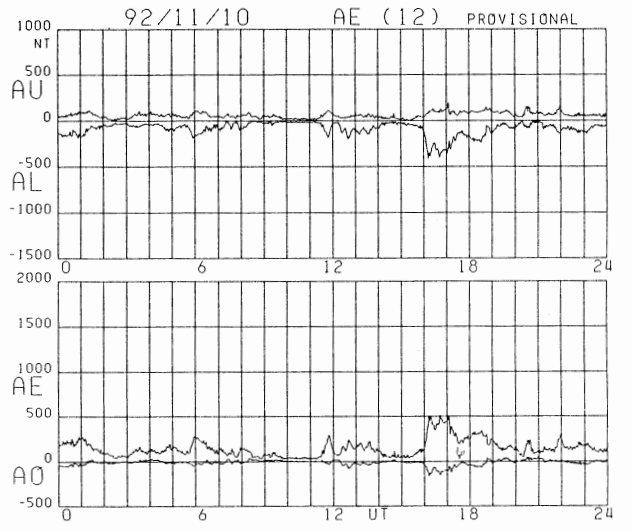
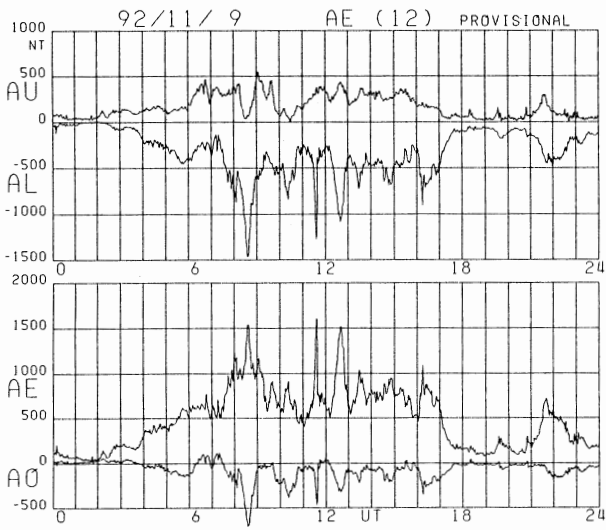
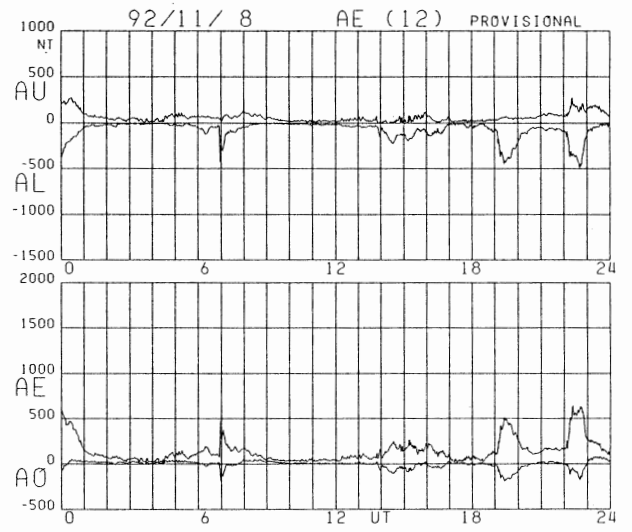
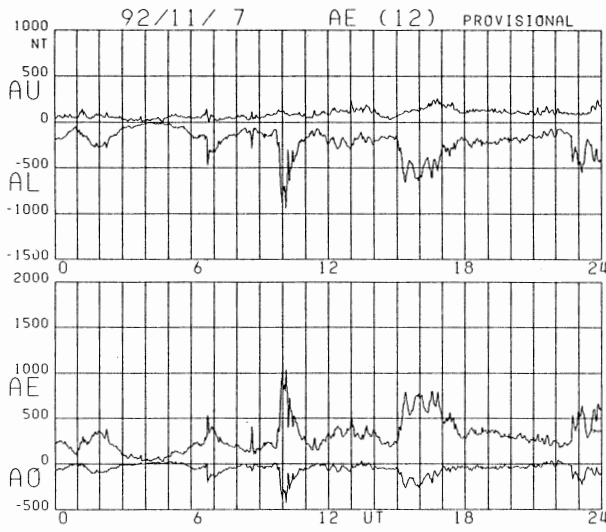
92/10/31 AE (11) PROVISIONAL

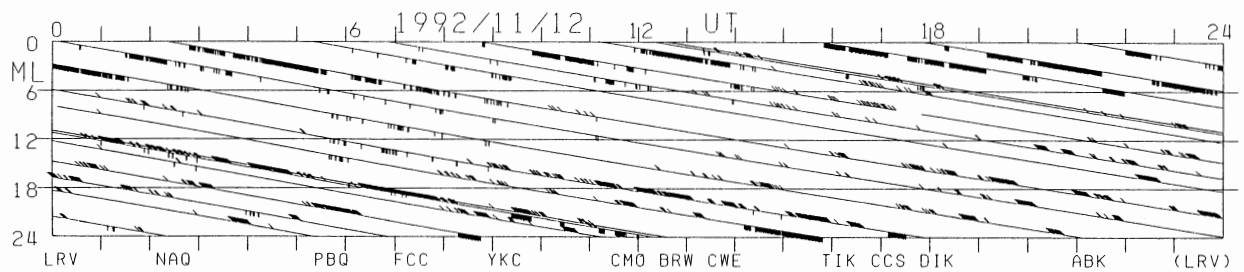
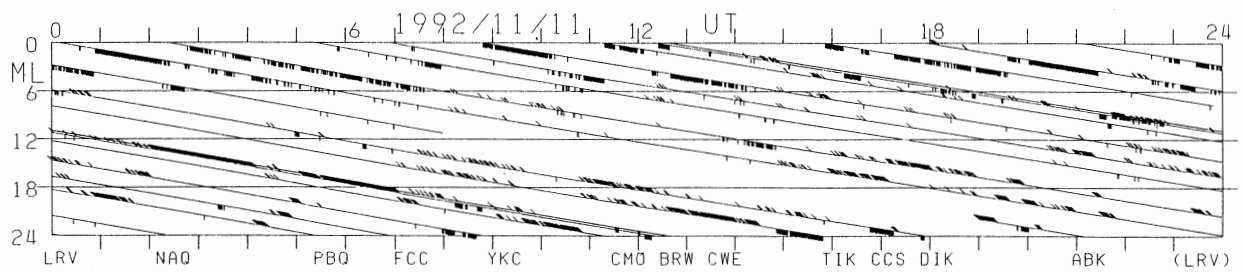
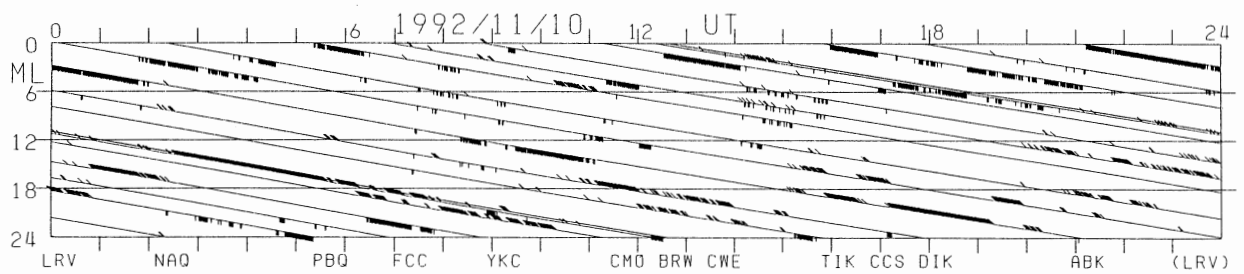
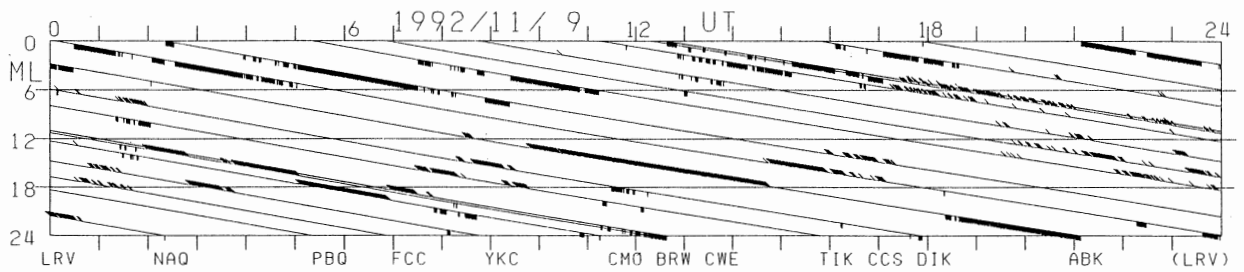
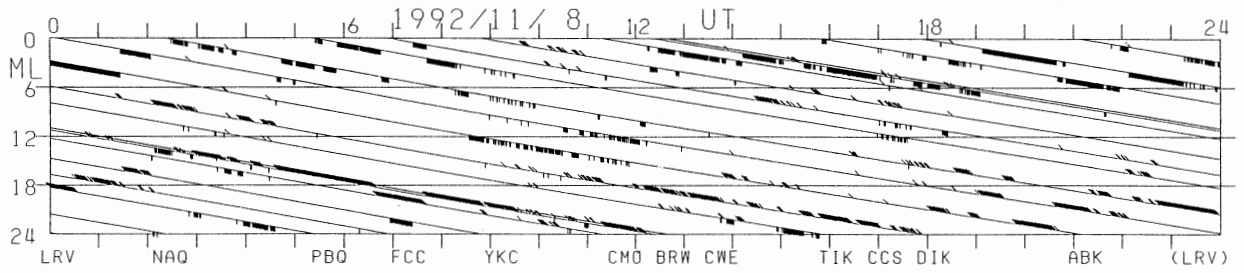
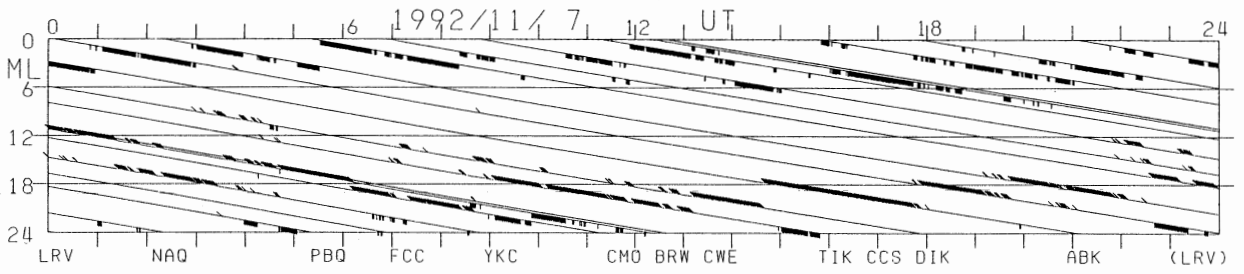


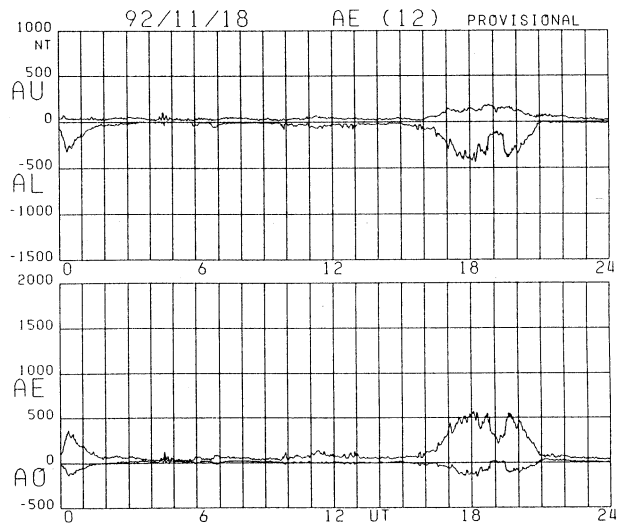
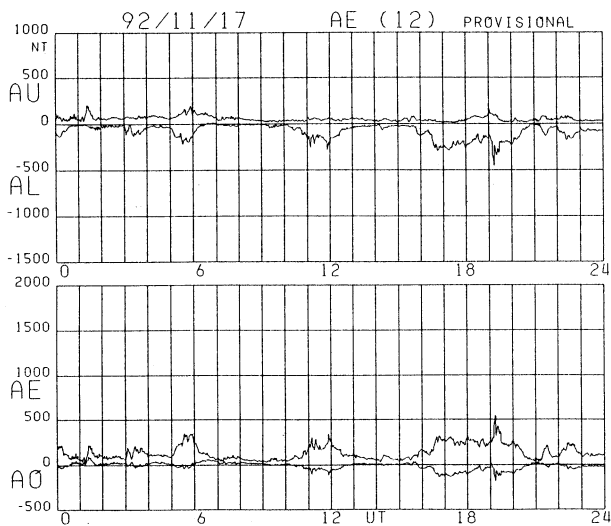
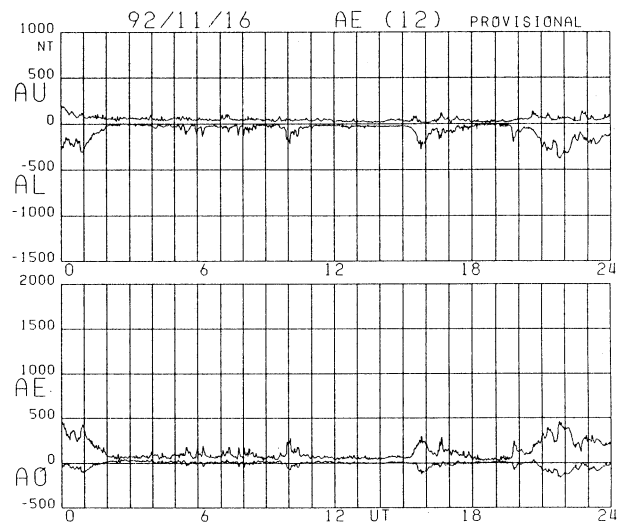
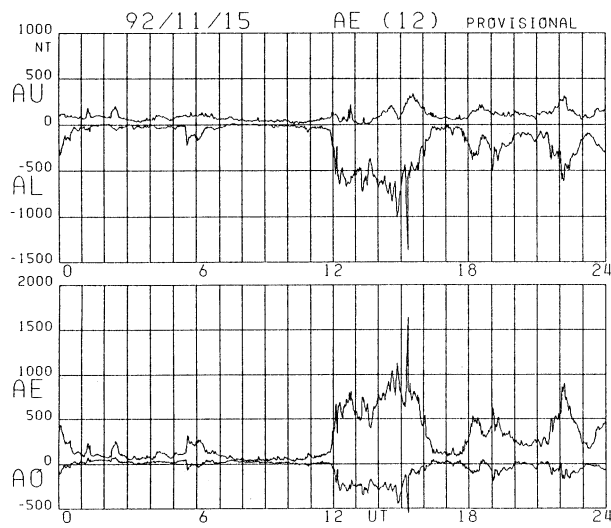
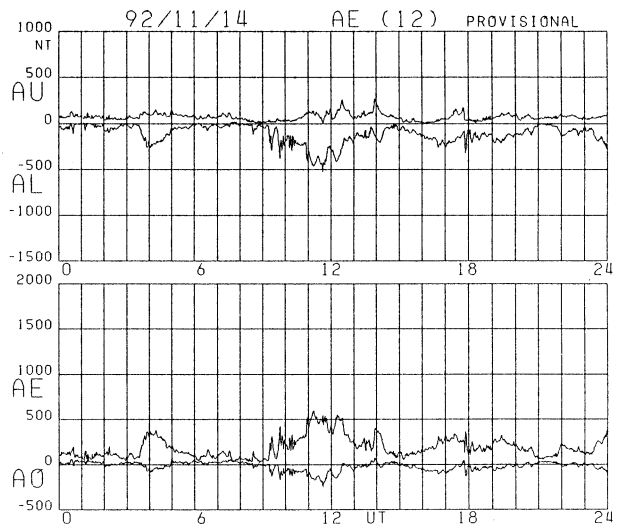
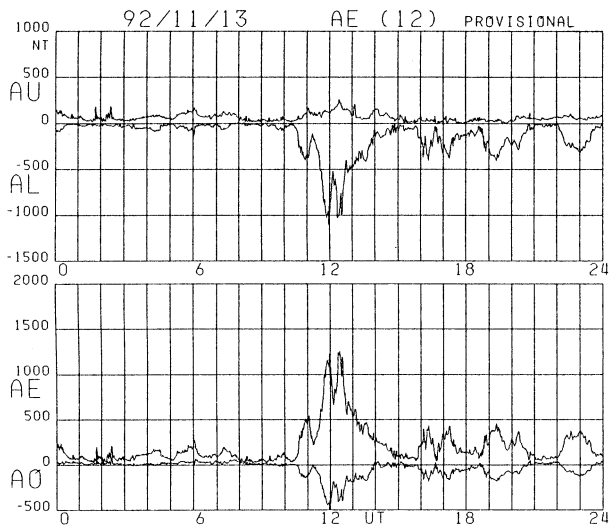


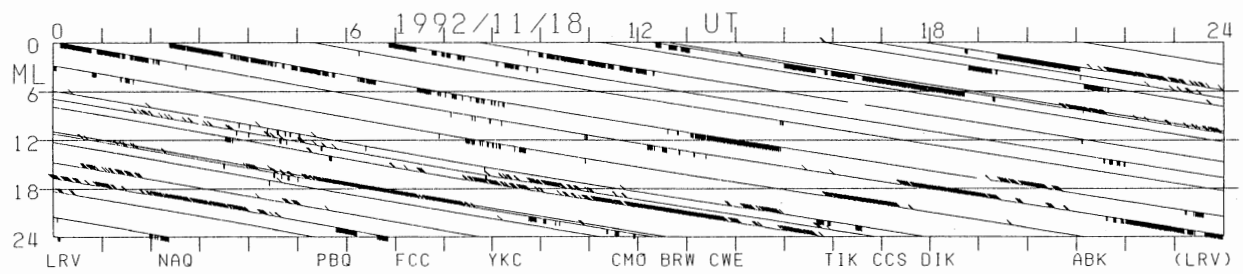
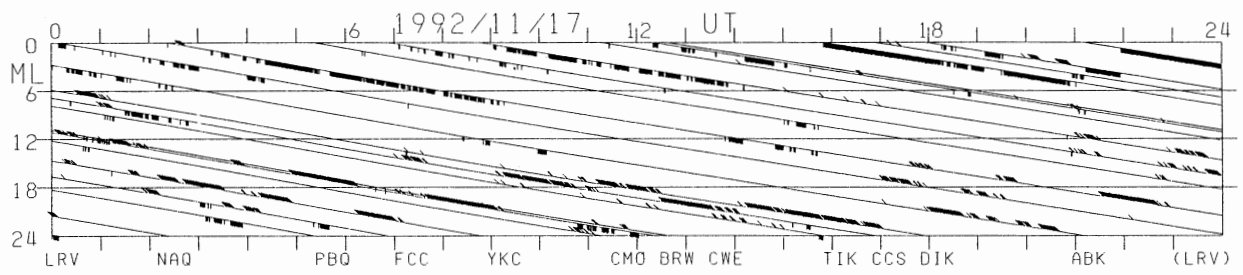
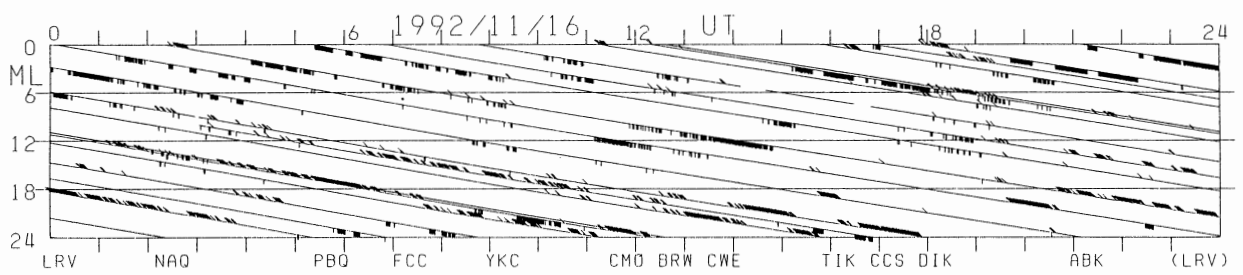
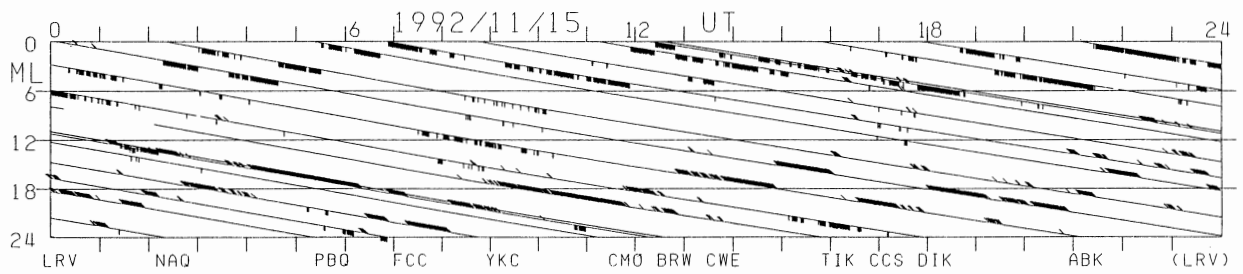
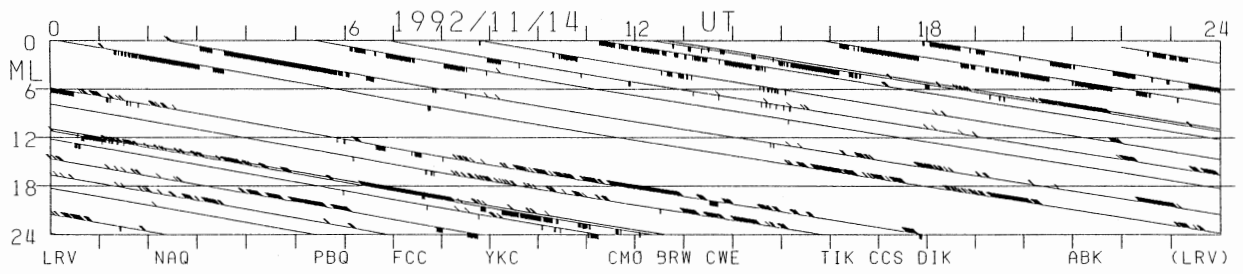
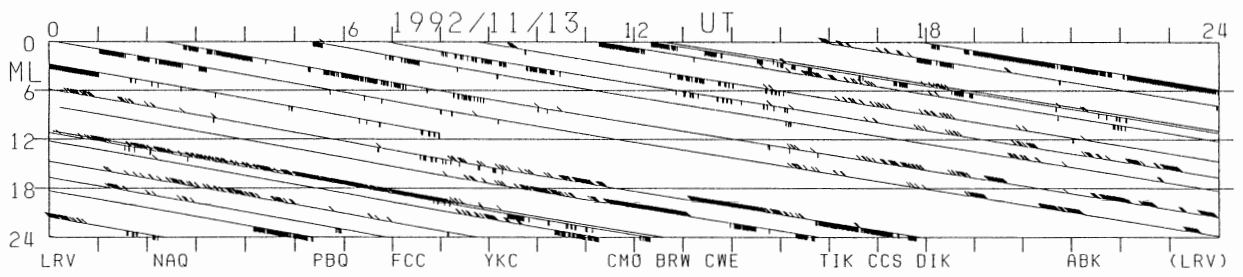


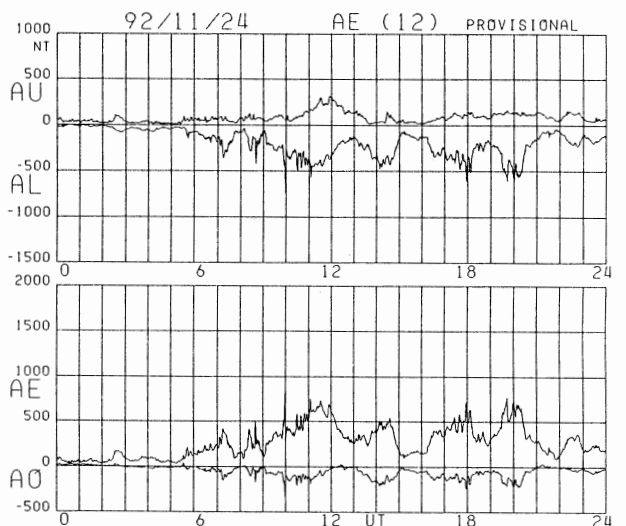
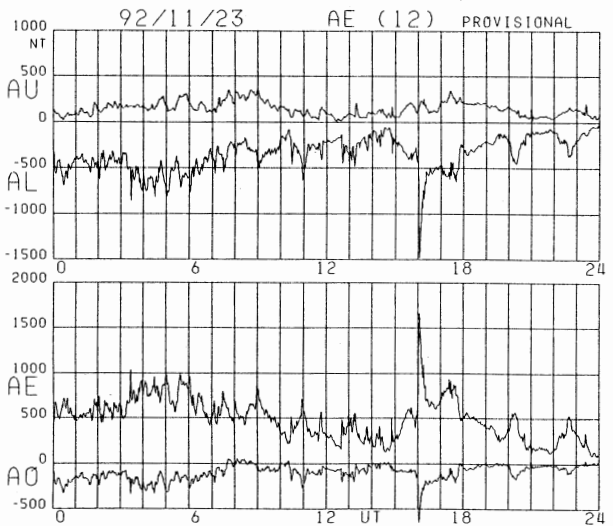
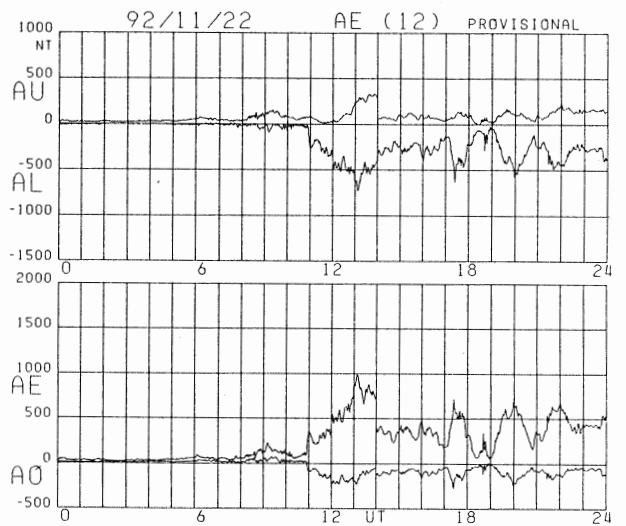
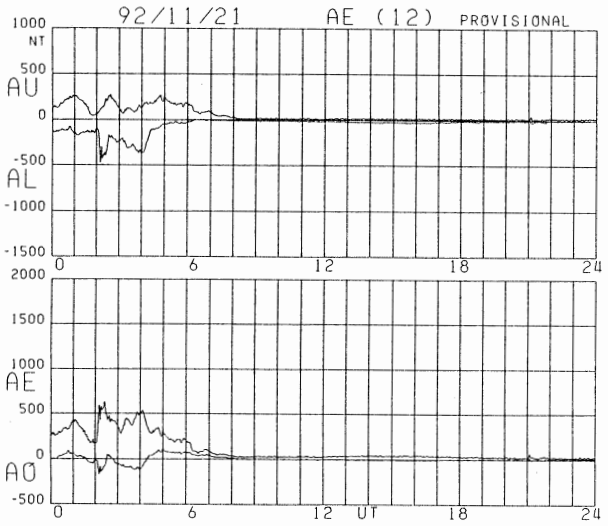
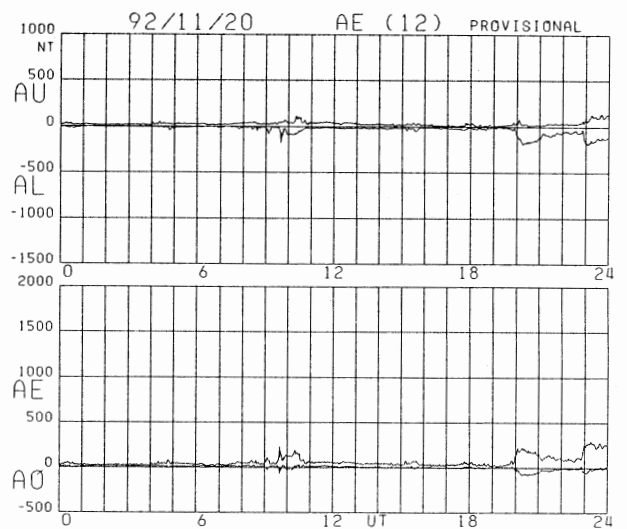
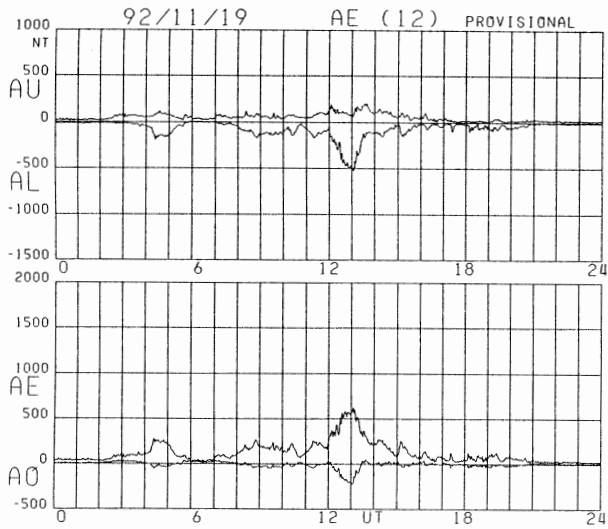


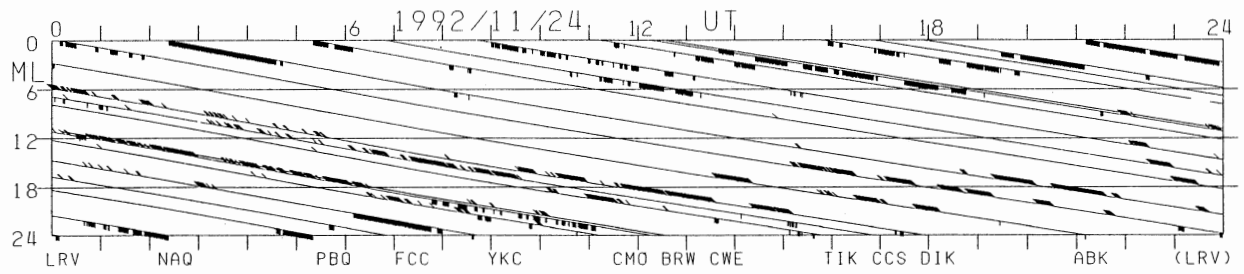
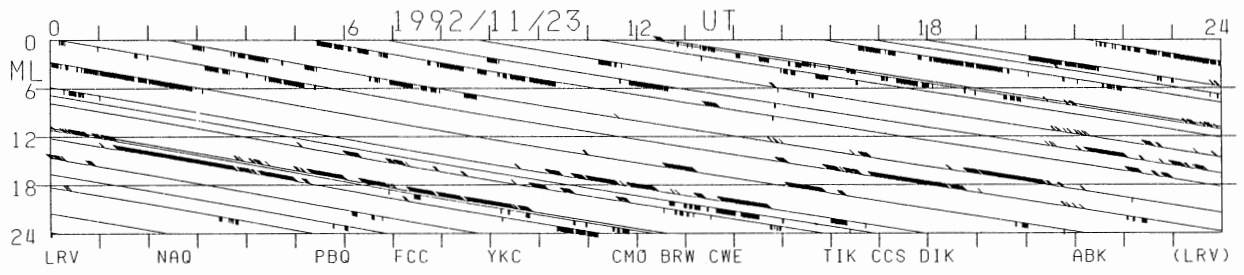
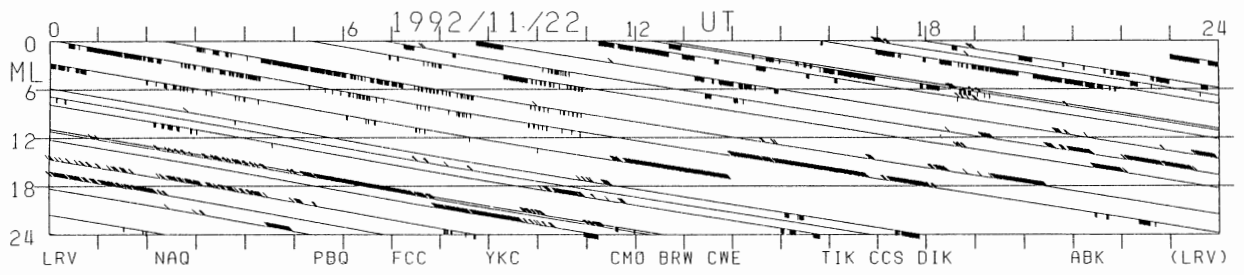
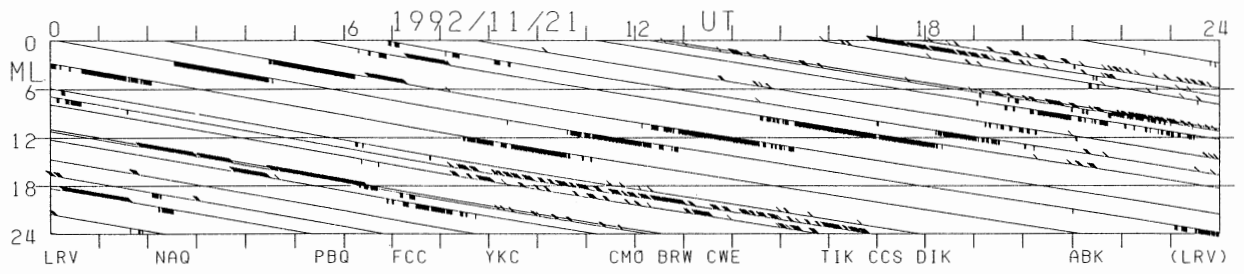
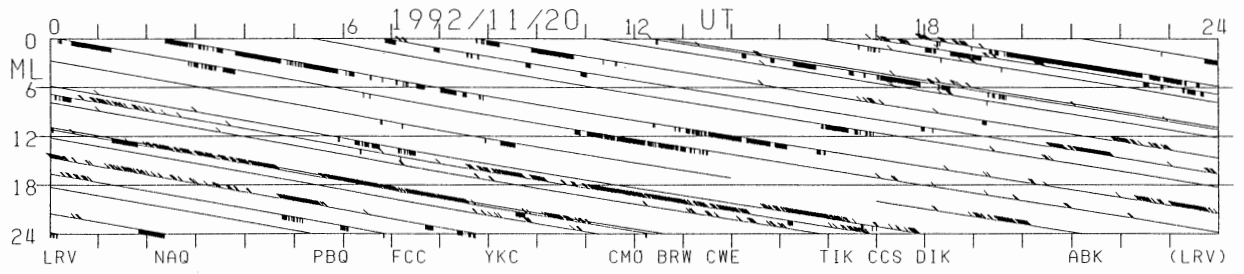
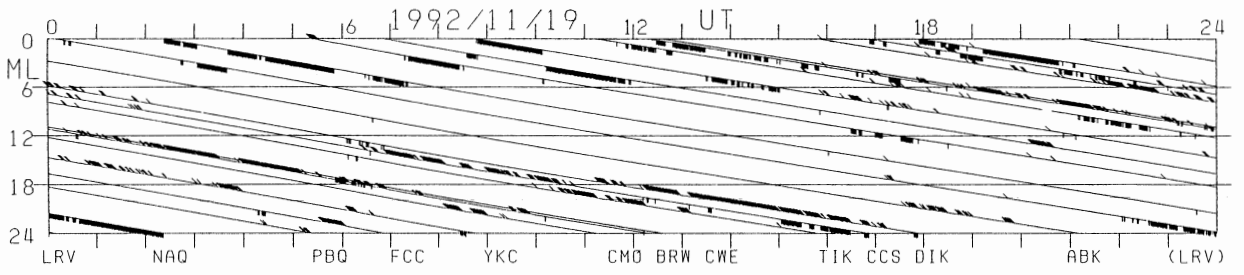


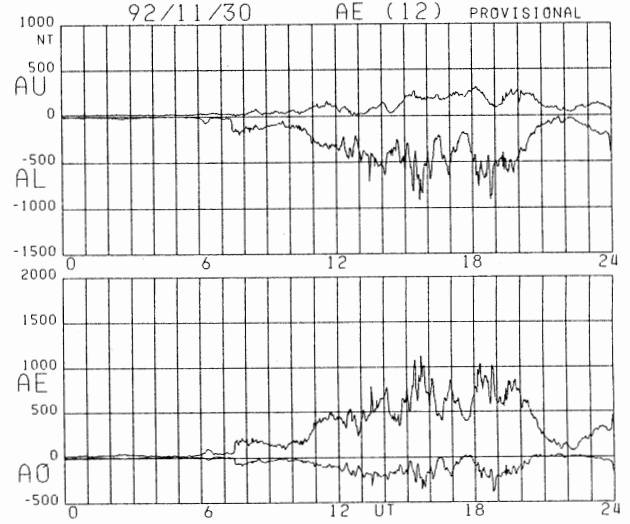
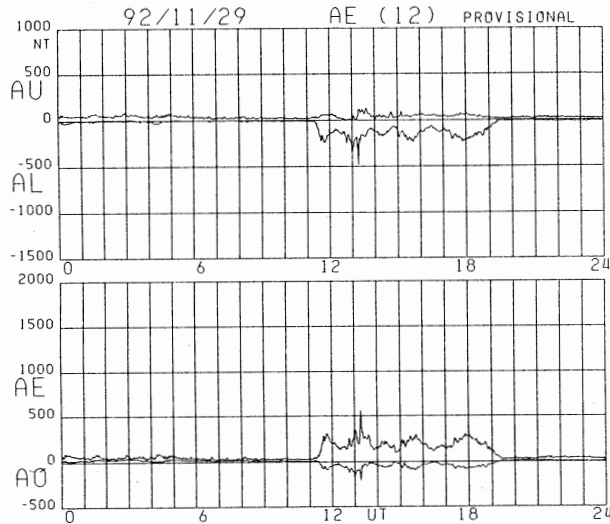
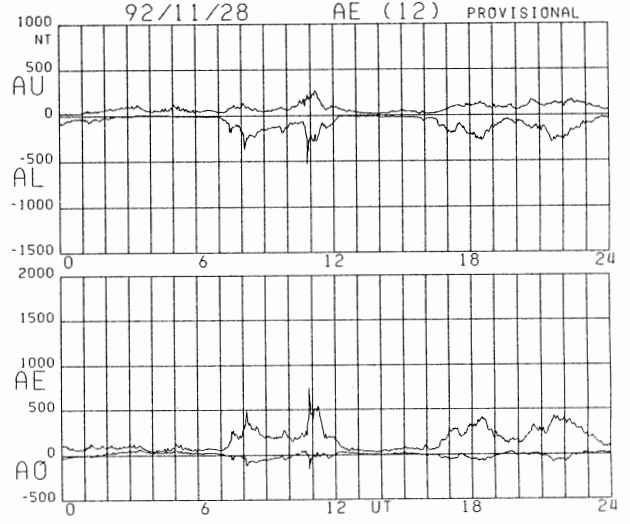
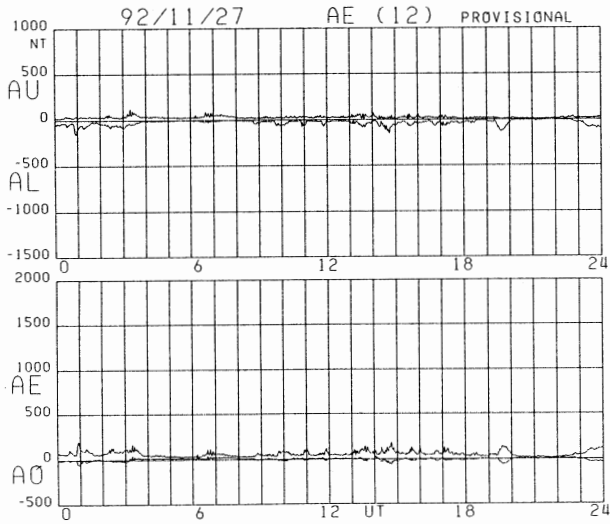
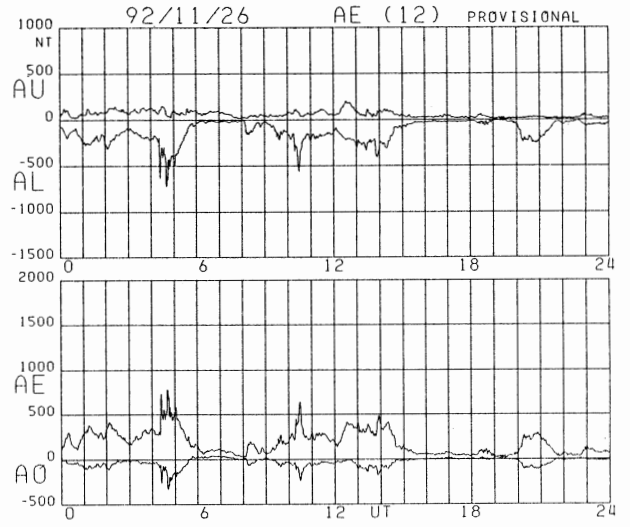
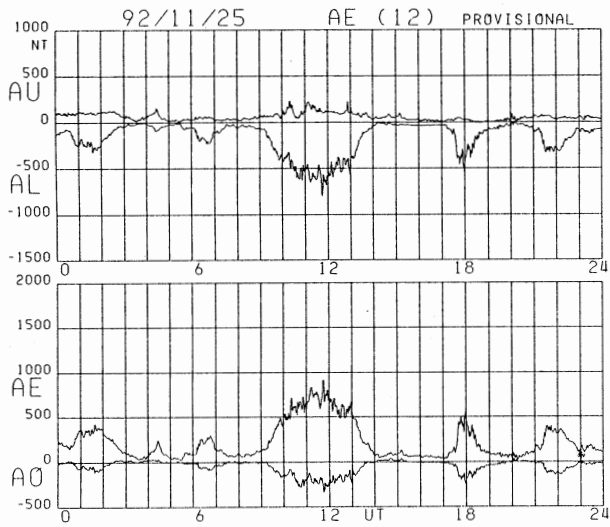


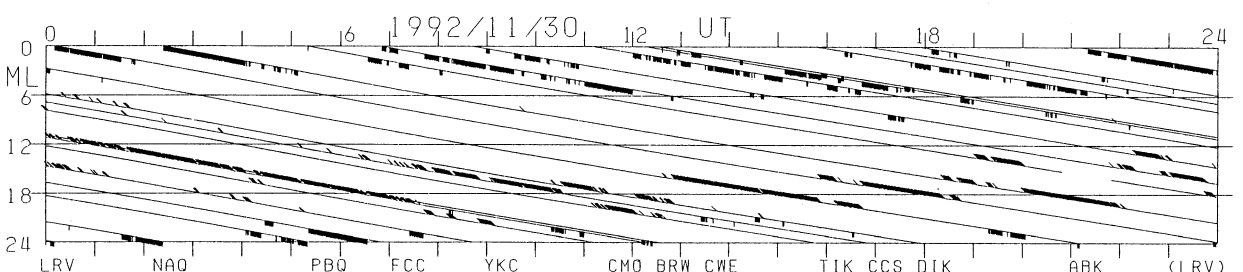
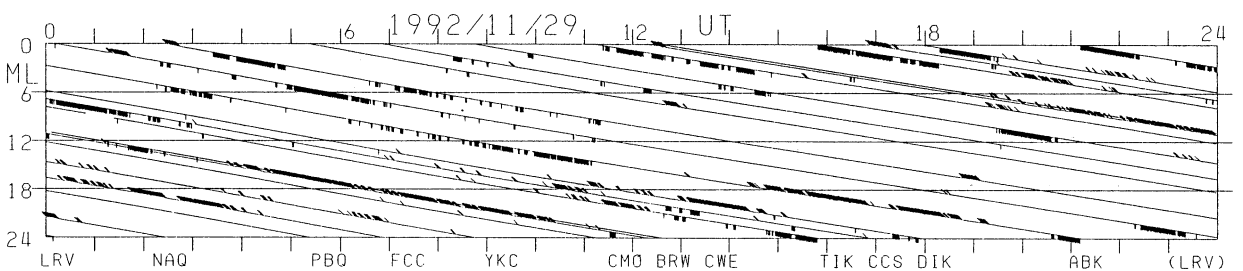
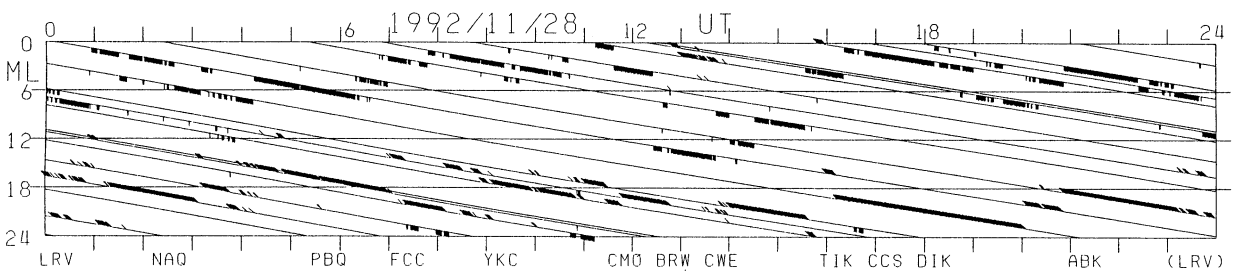
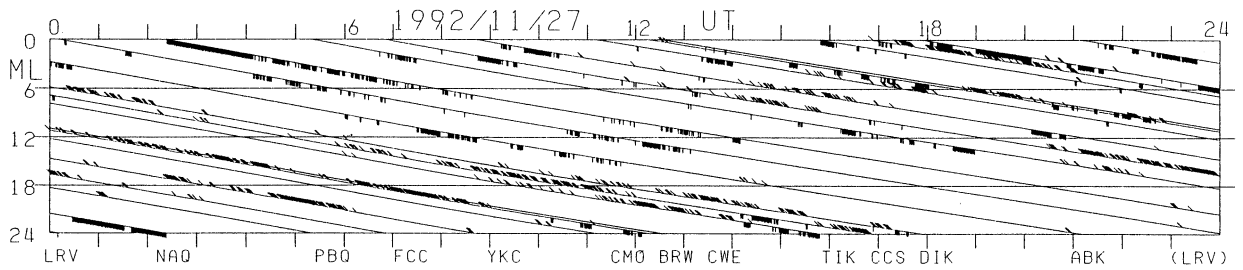
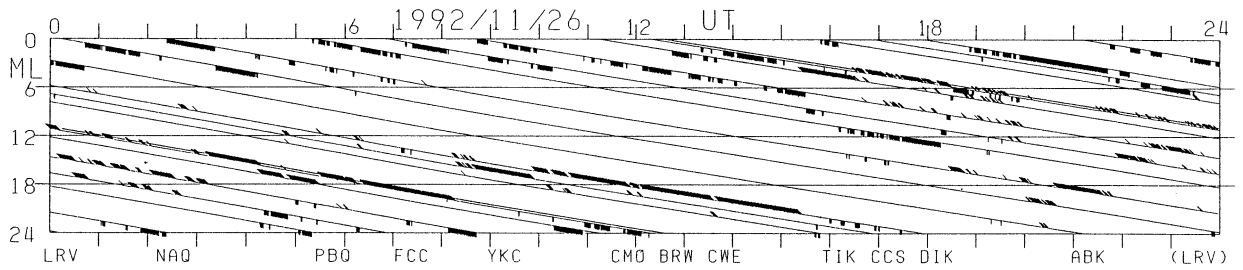
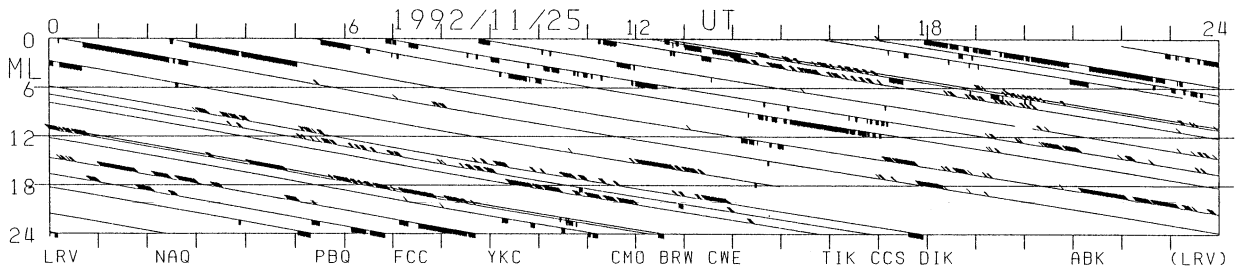


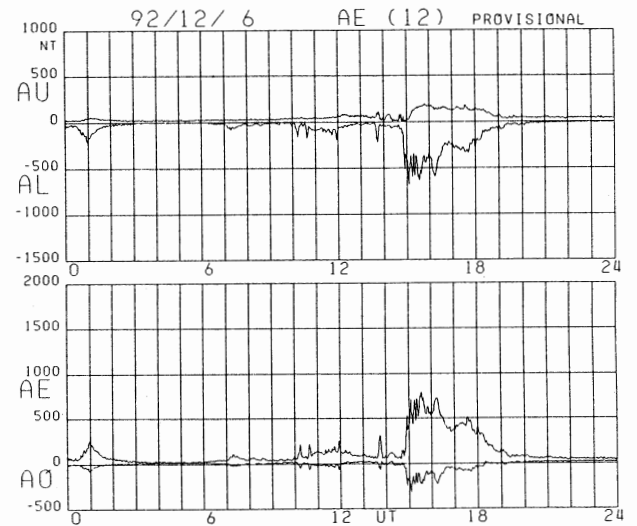
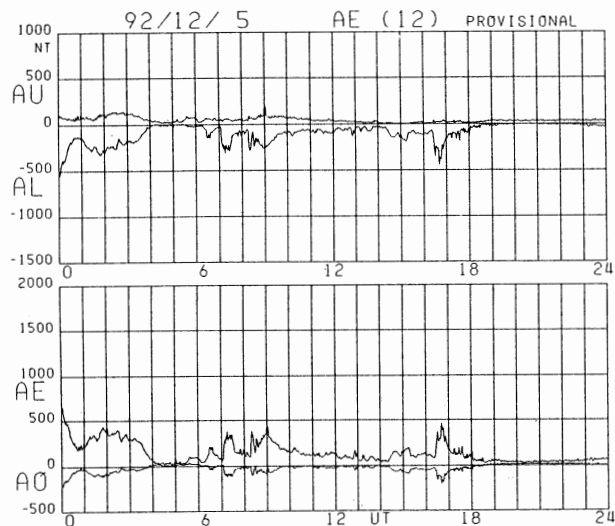
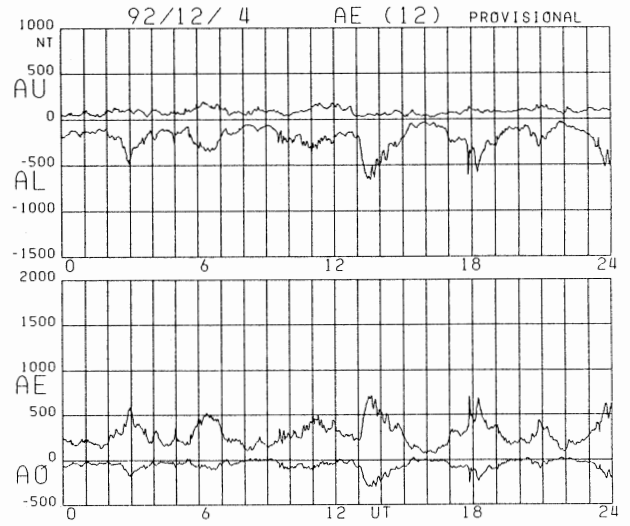
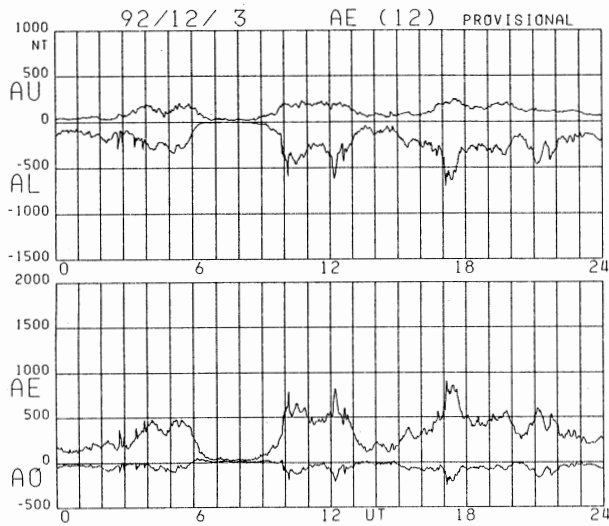
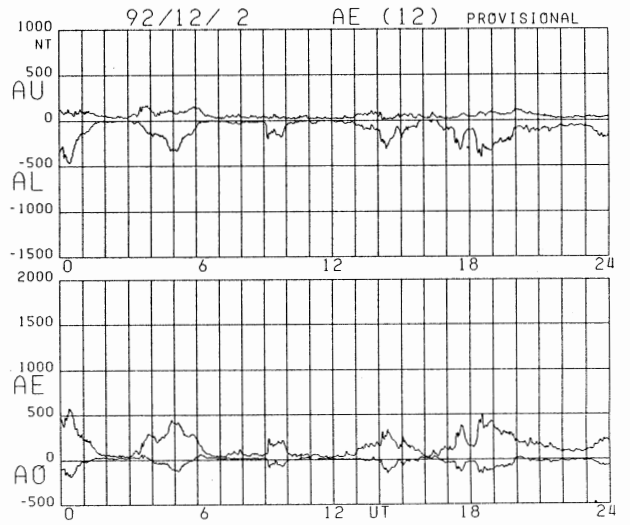
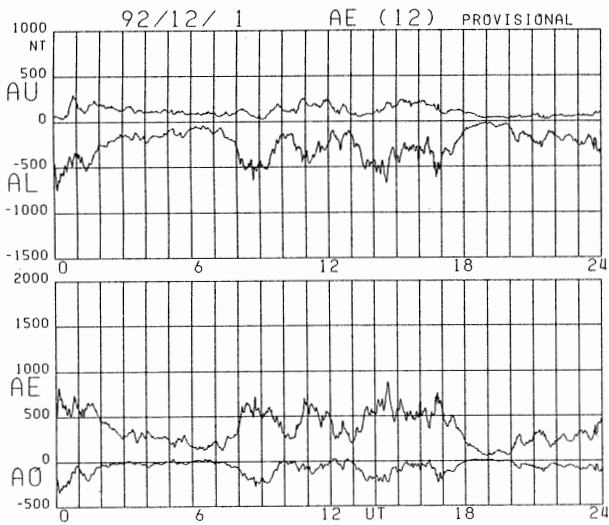


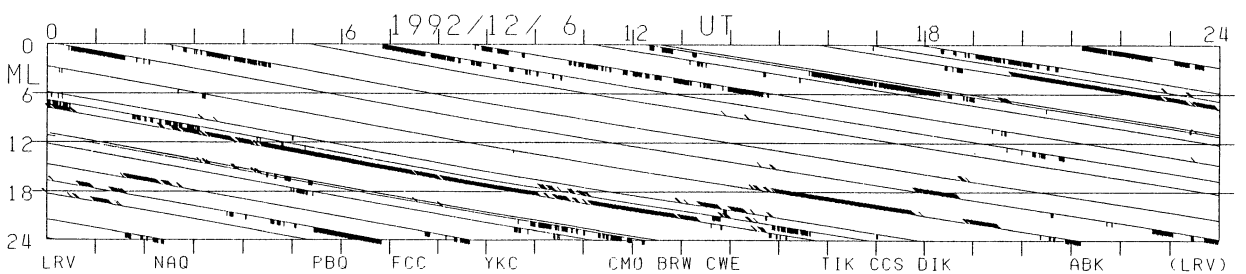
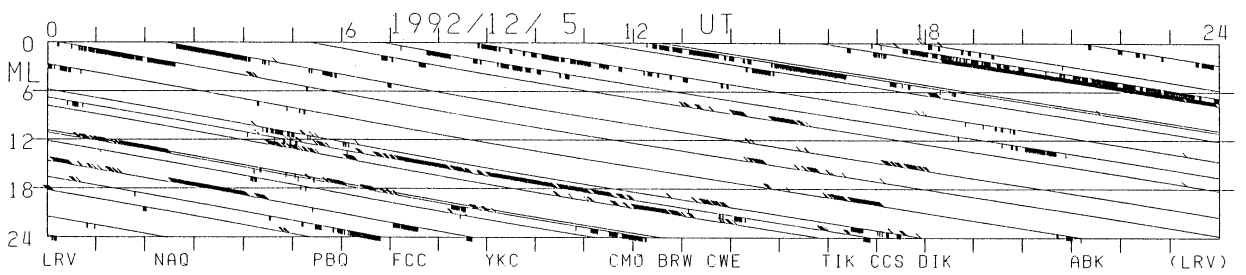
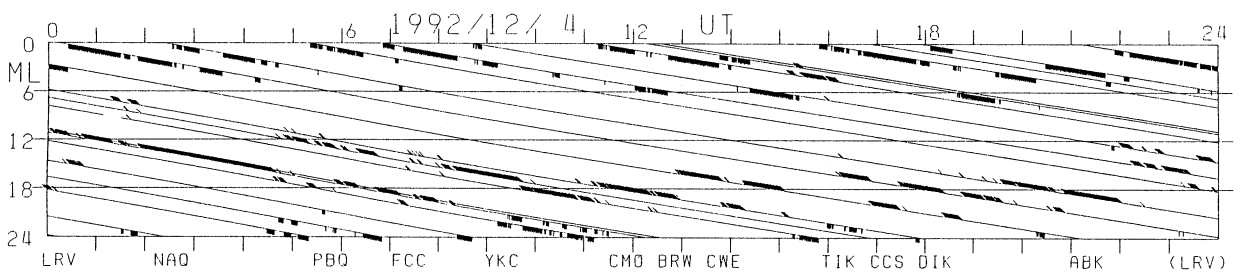
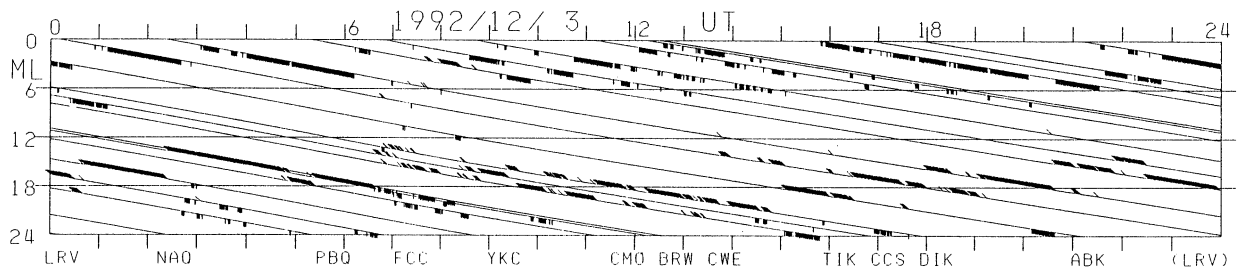
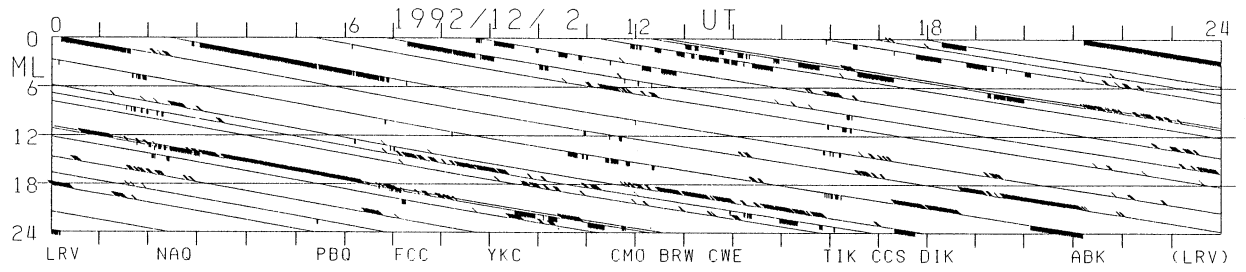
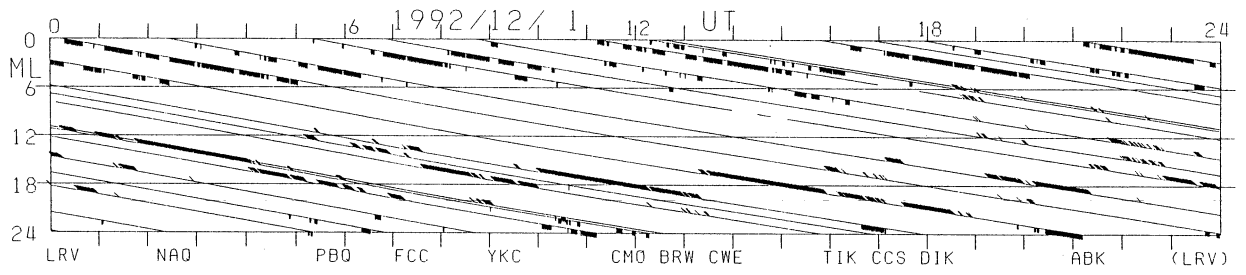


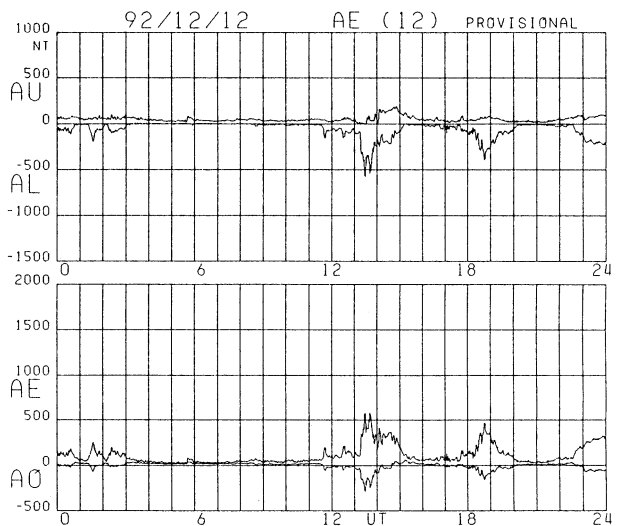
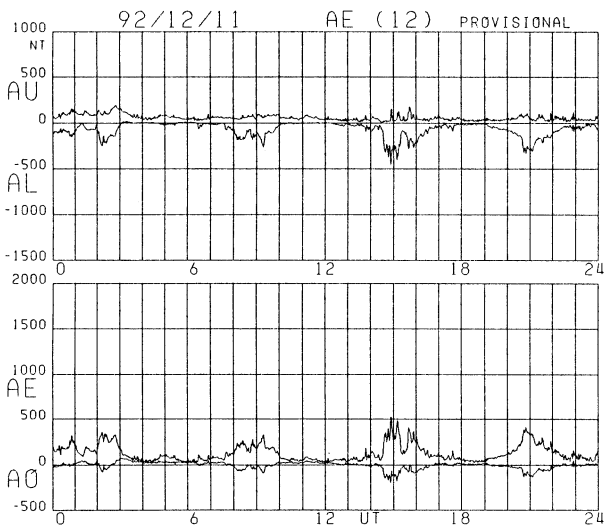
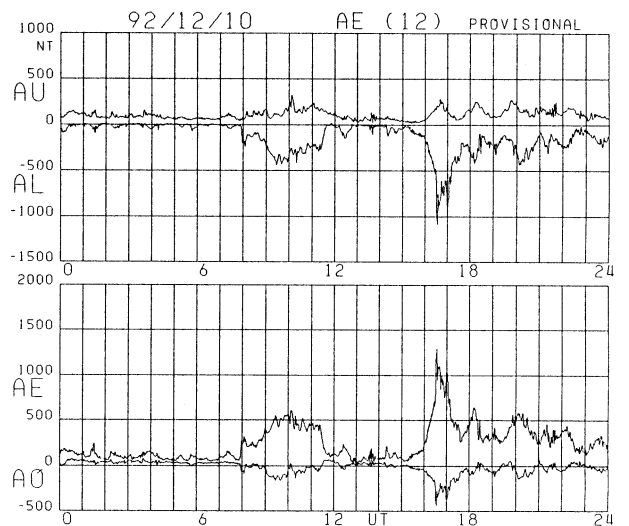
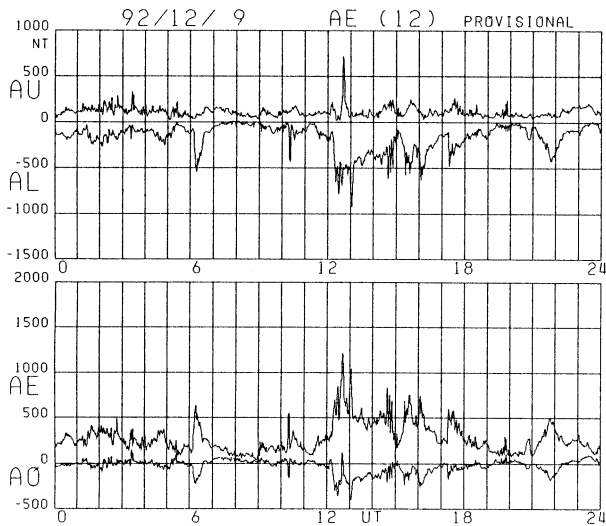
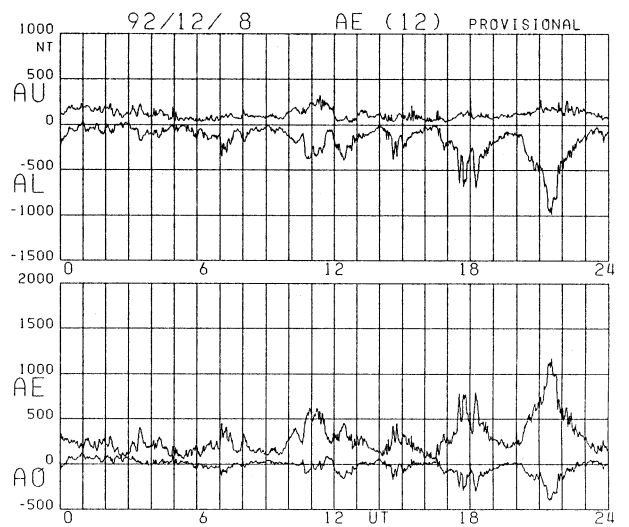
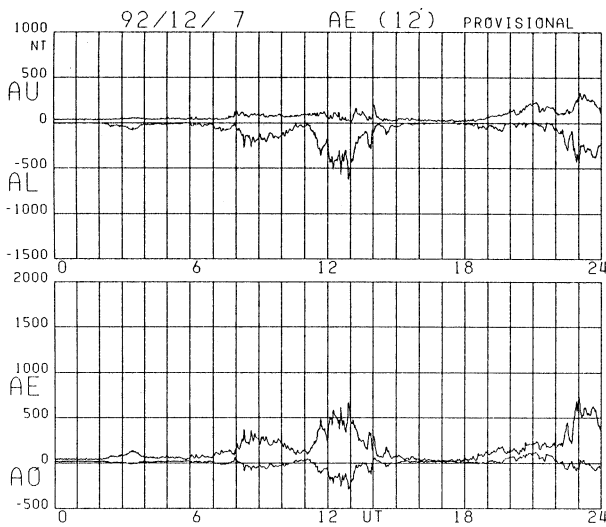


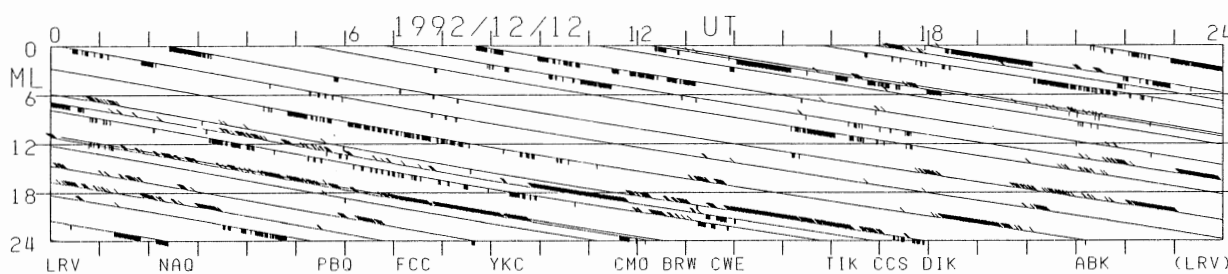
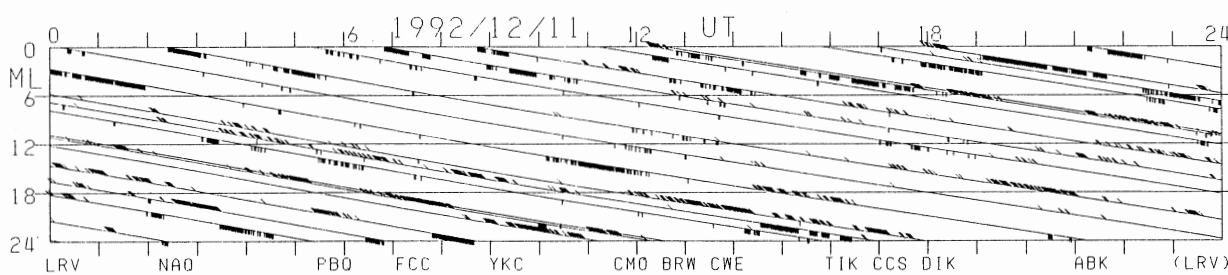
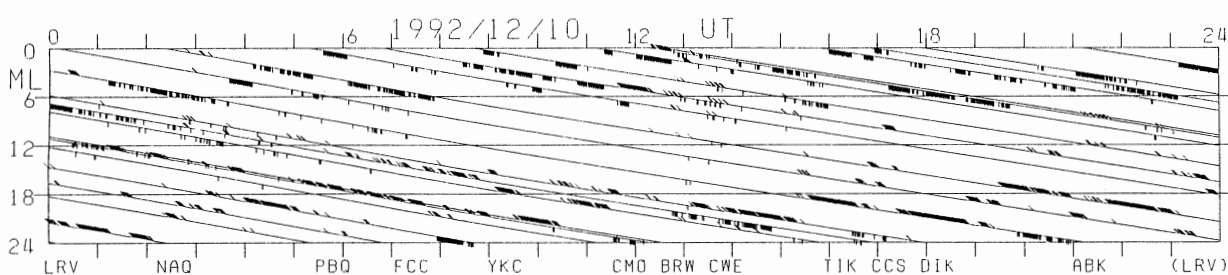
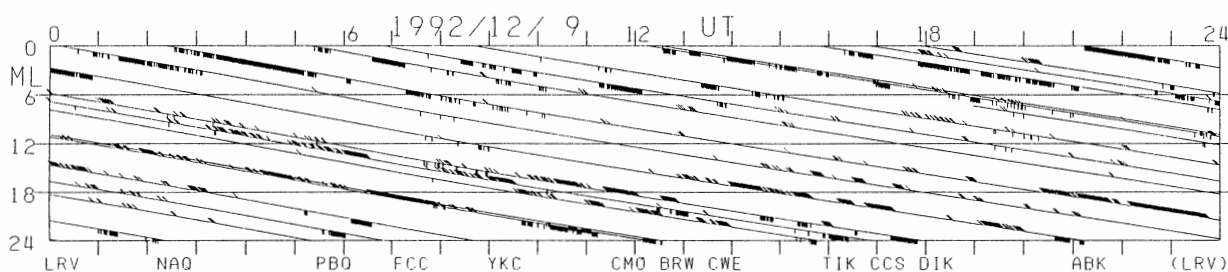
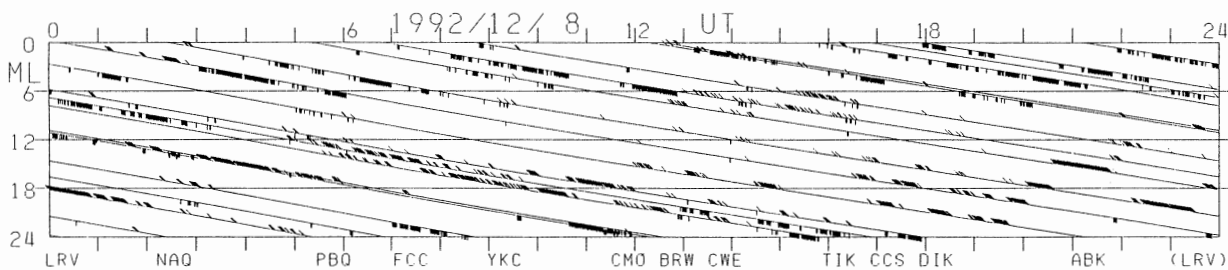
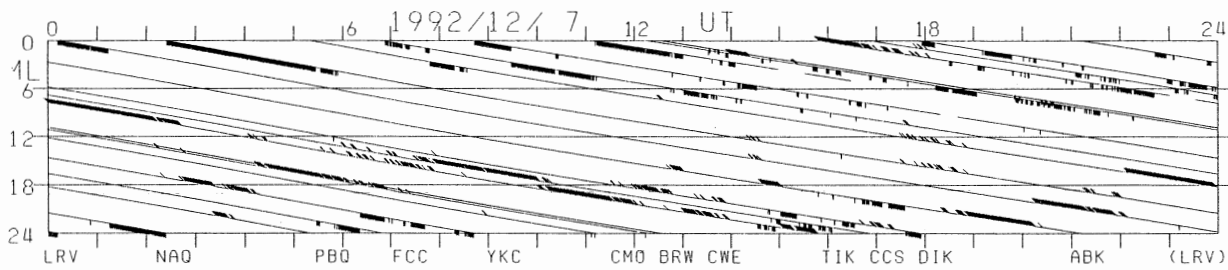


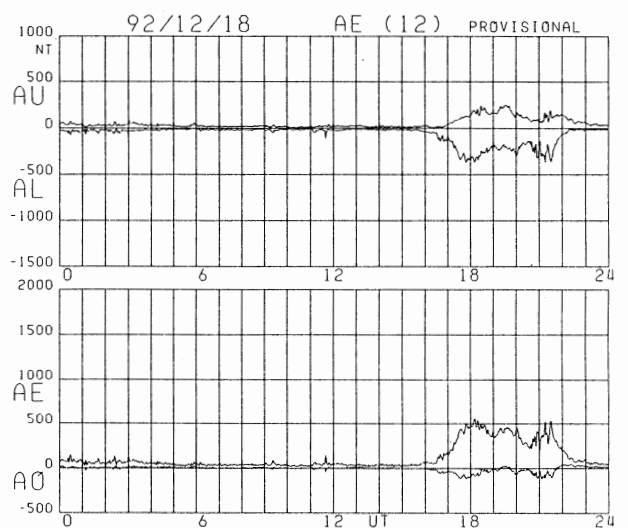
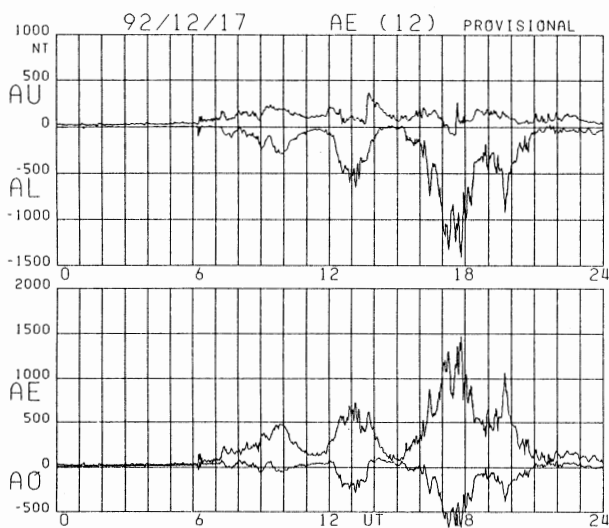
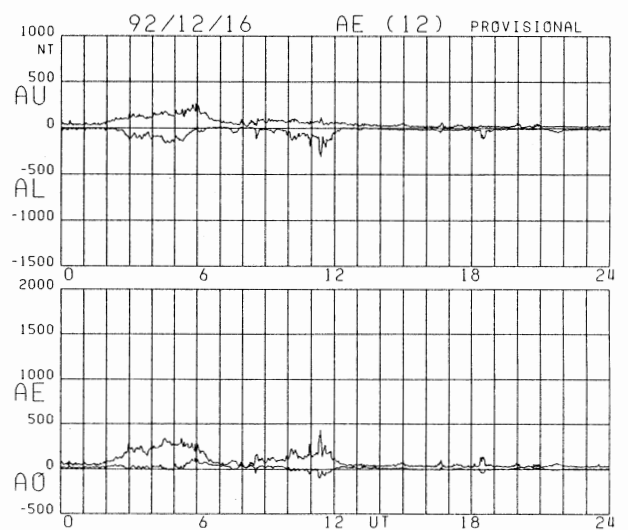
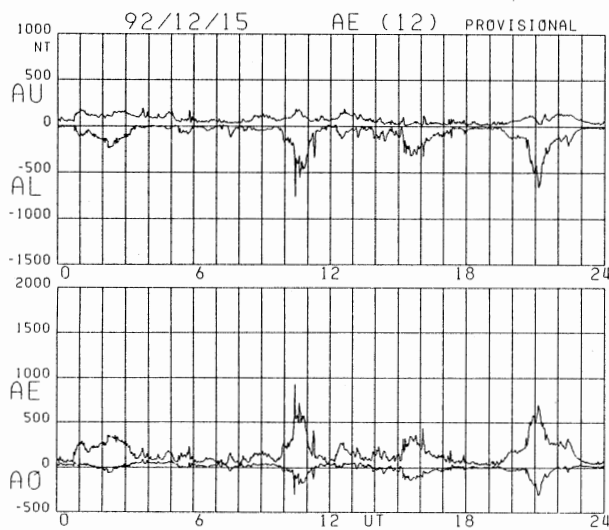
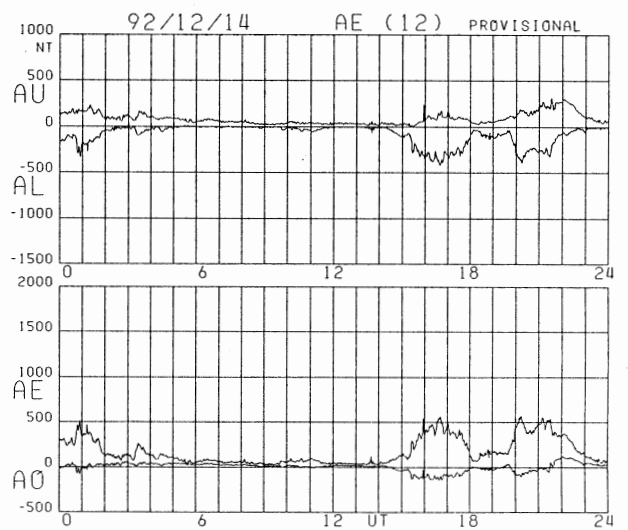
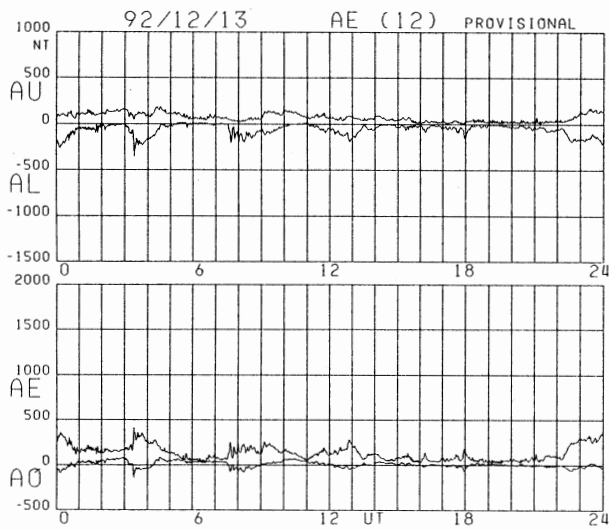


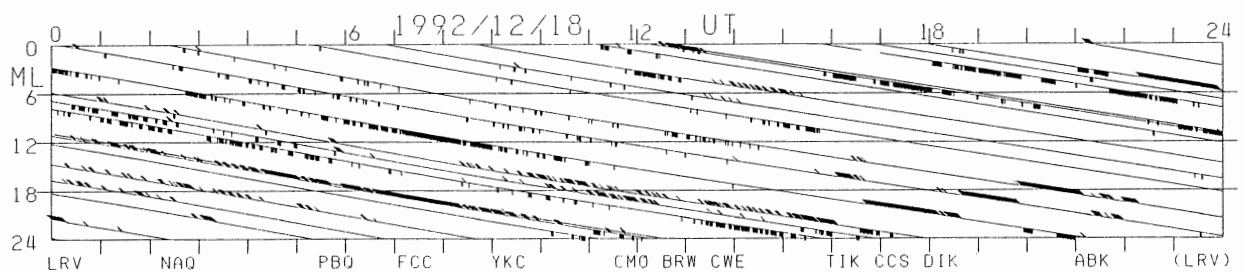
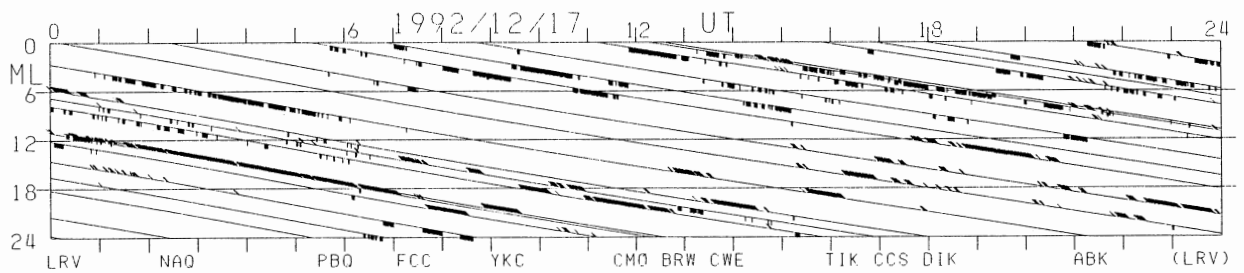
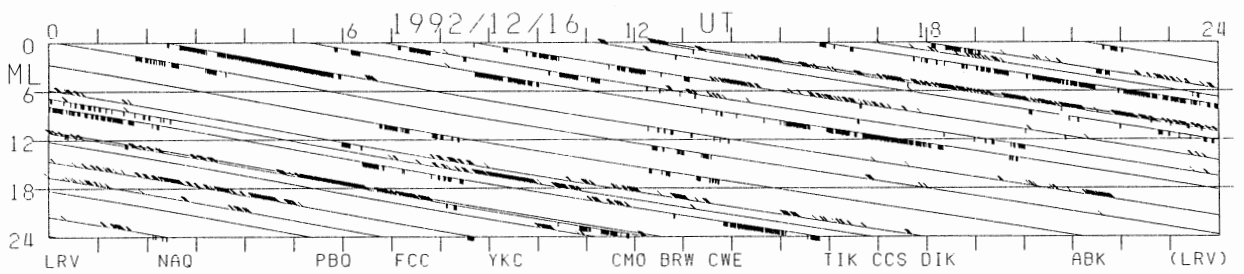
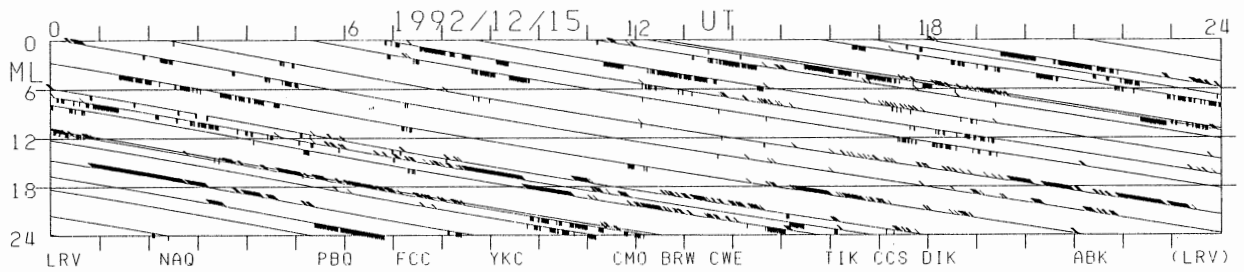
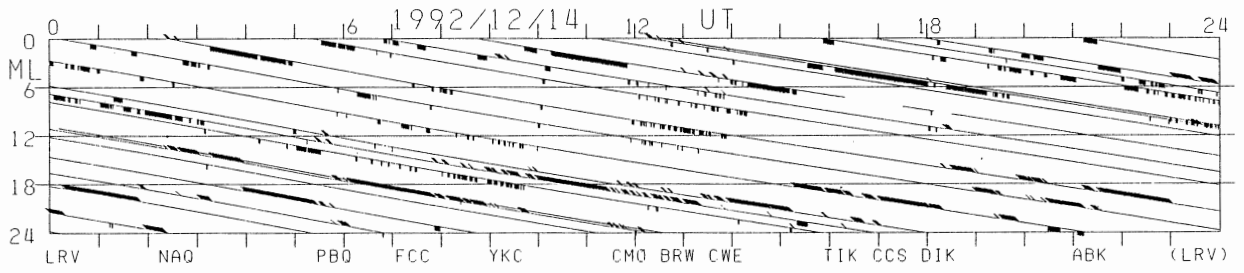
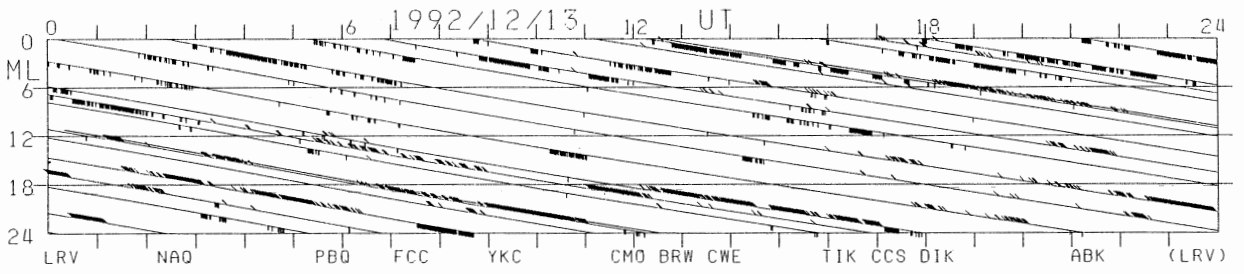


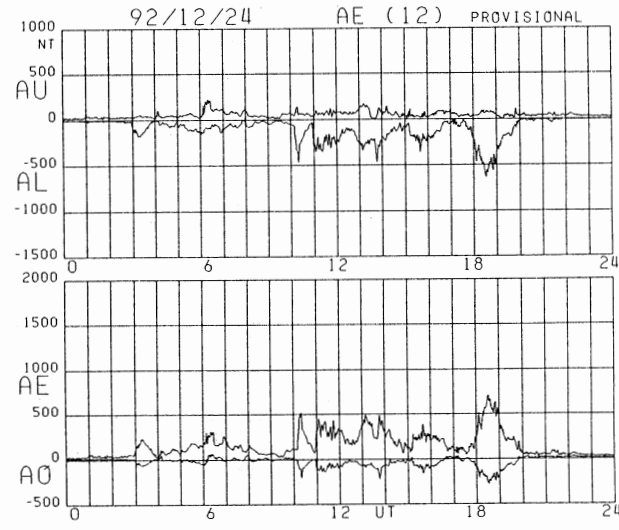
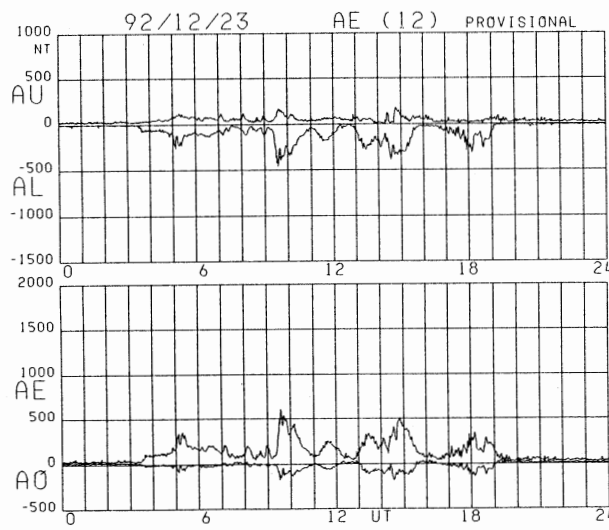
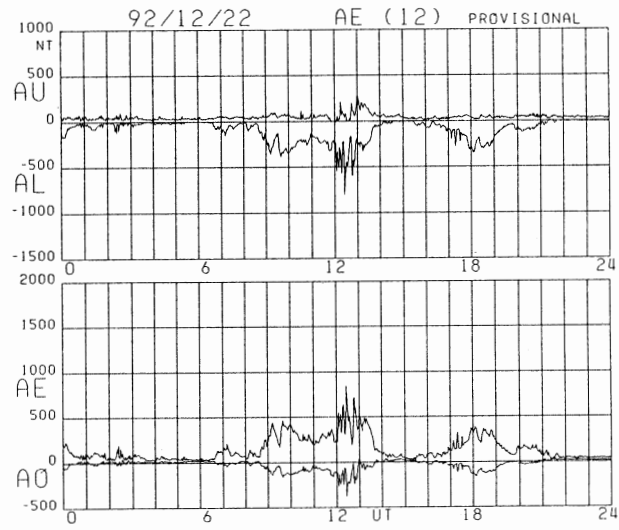
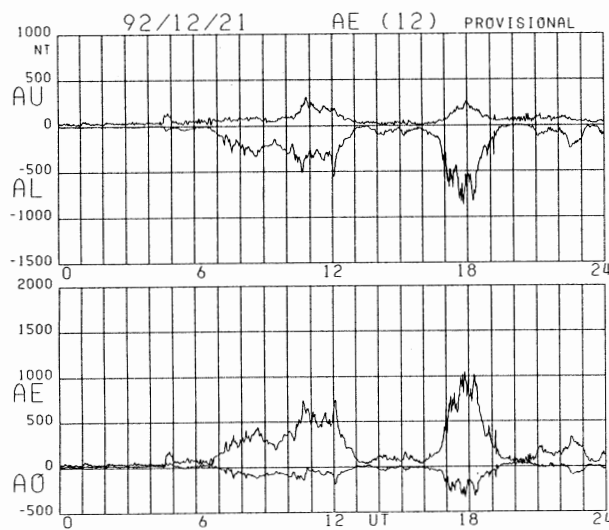
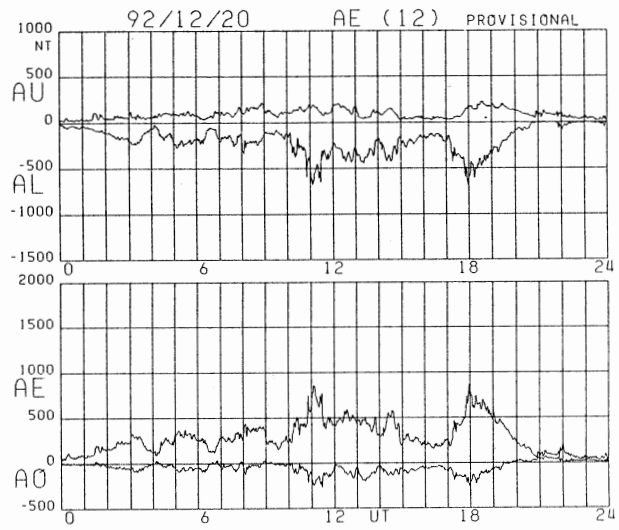
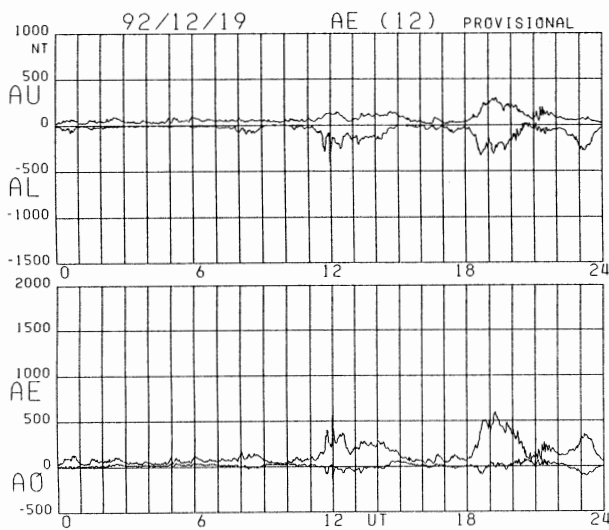


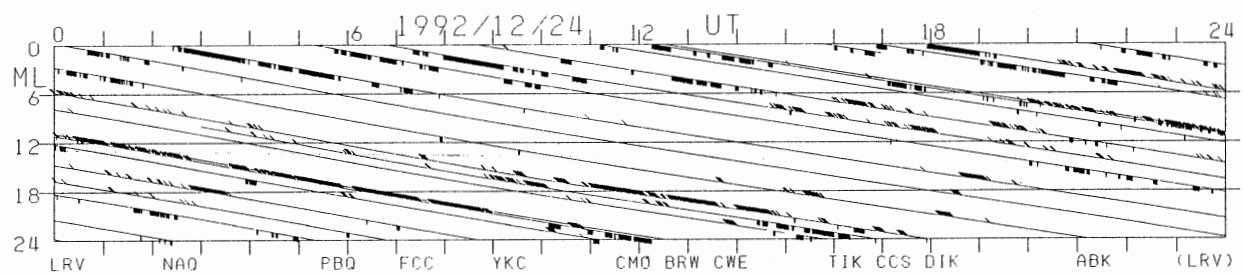
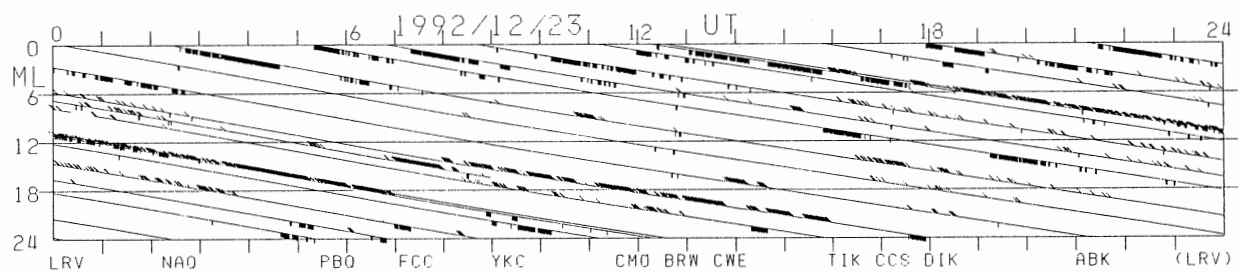
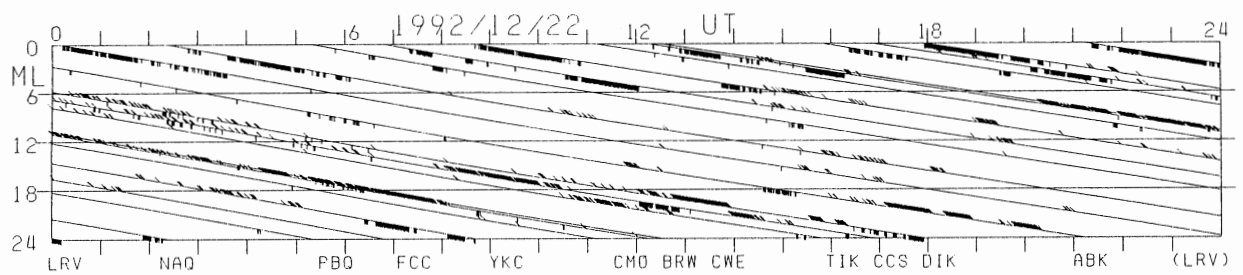
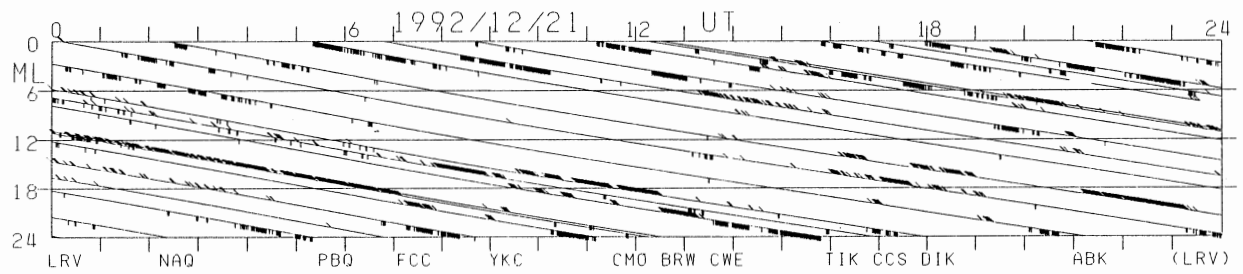
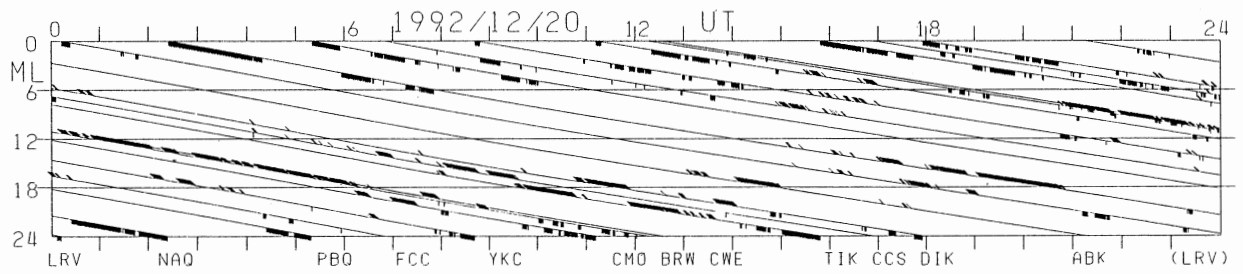
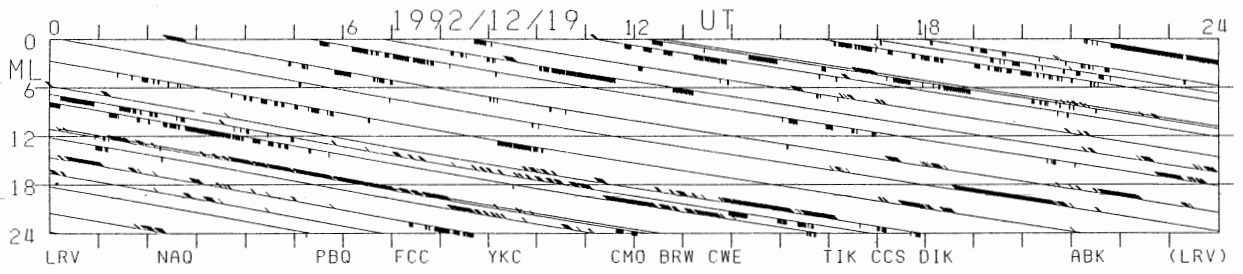


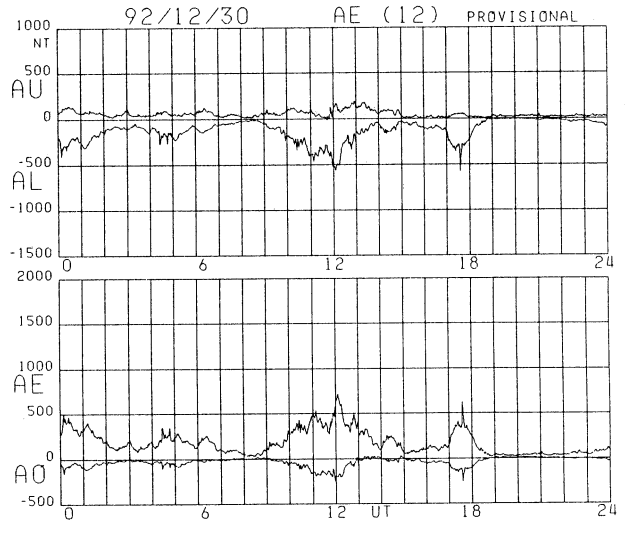
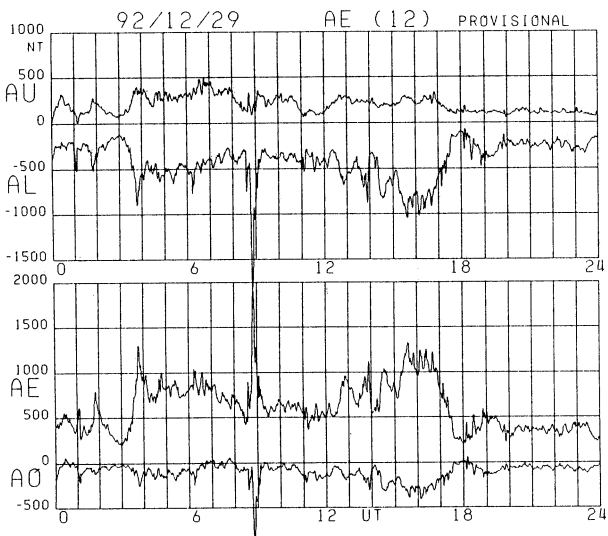
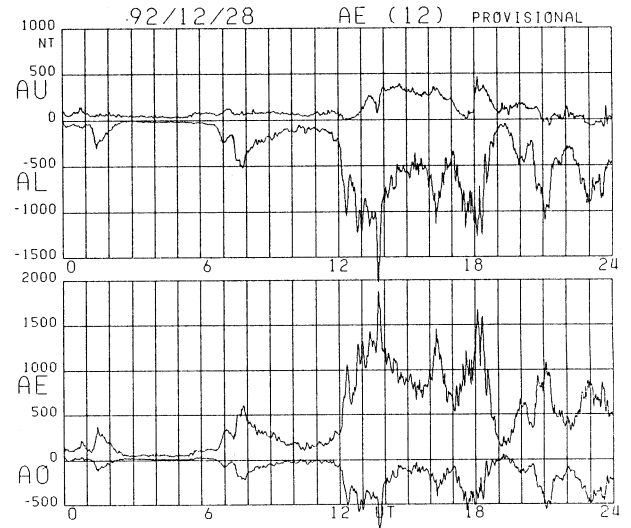
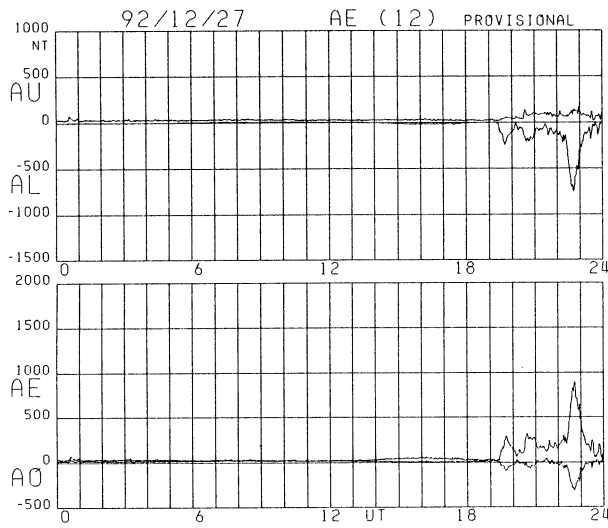
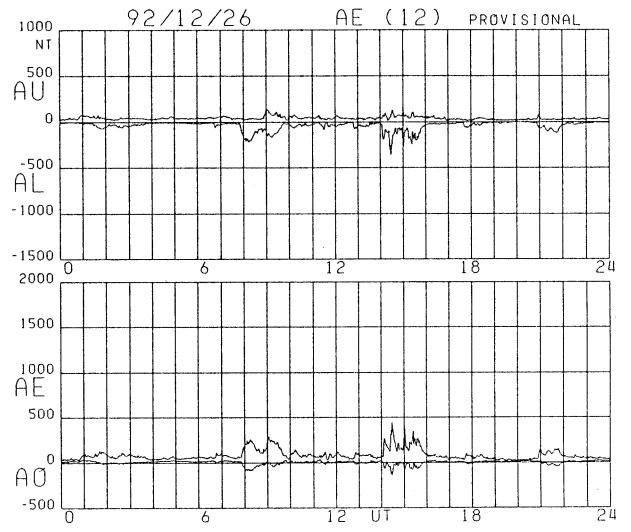
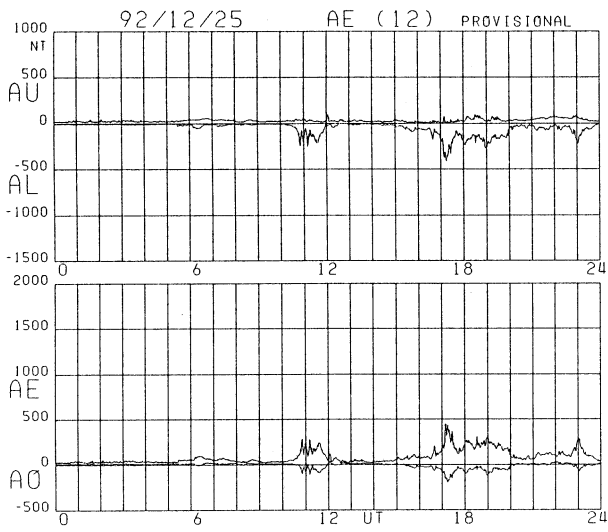


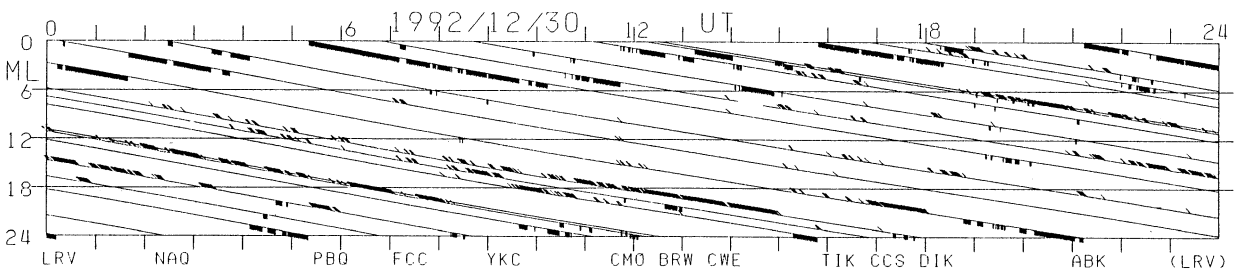
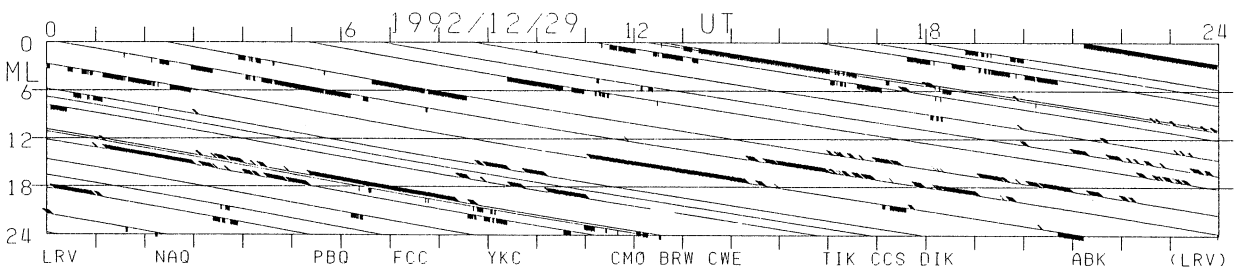
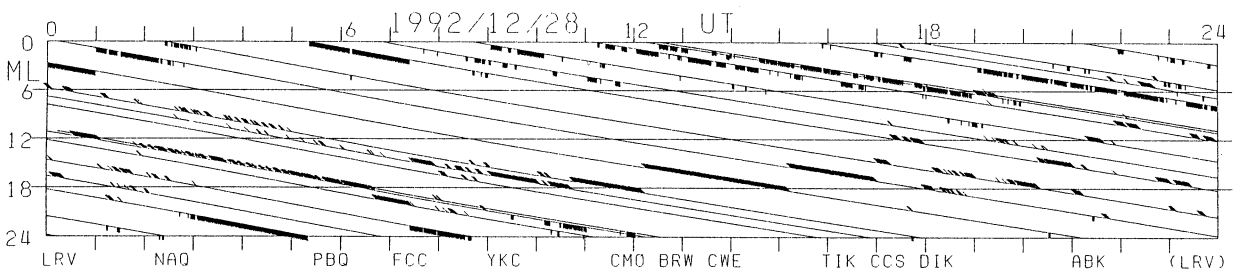
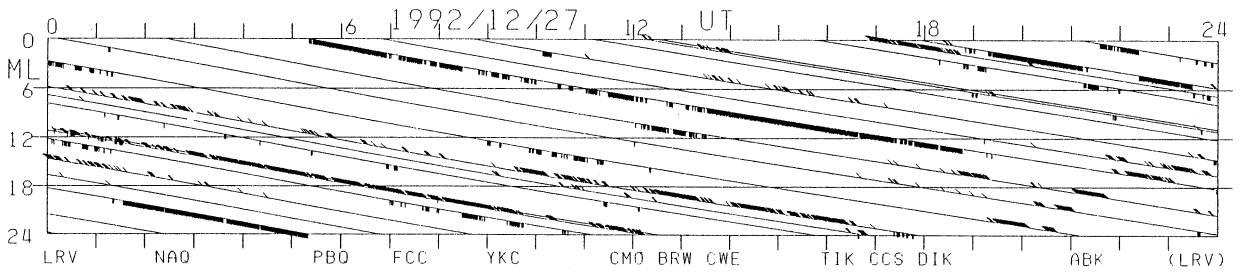
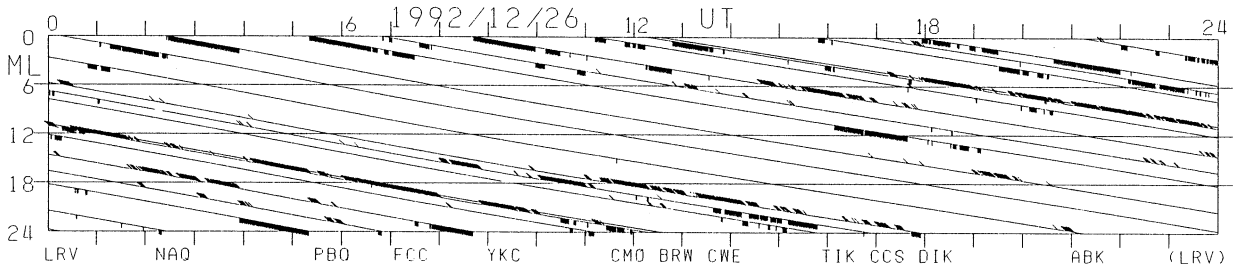
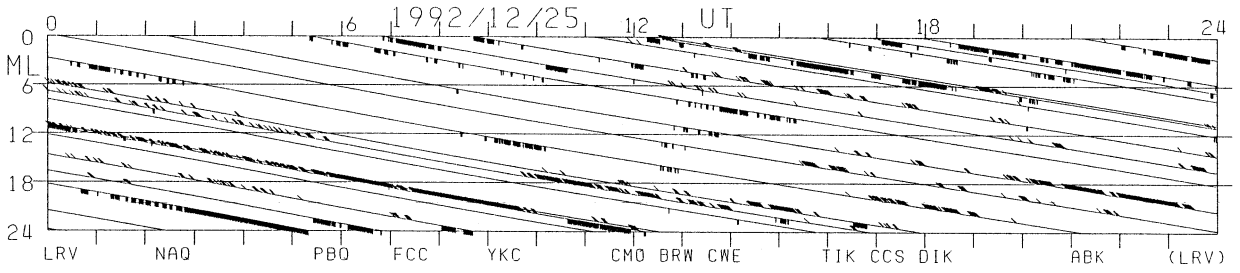


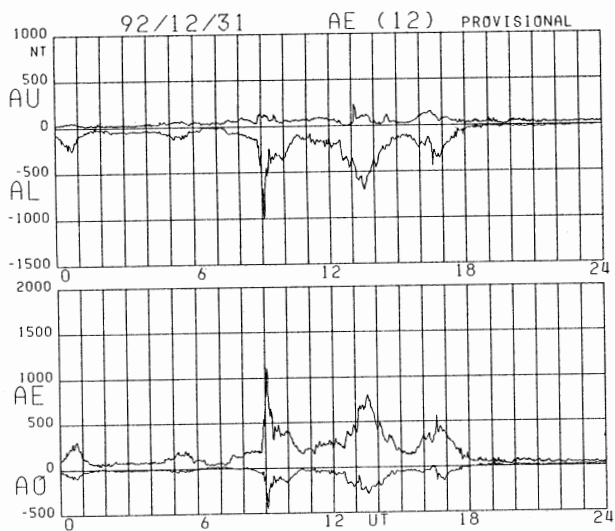


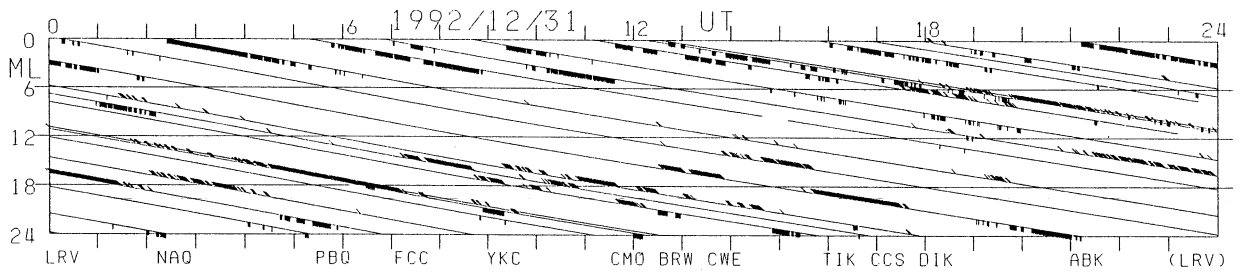


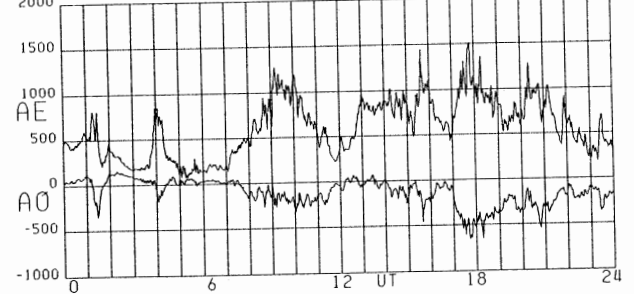
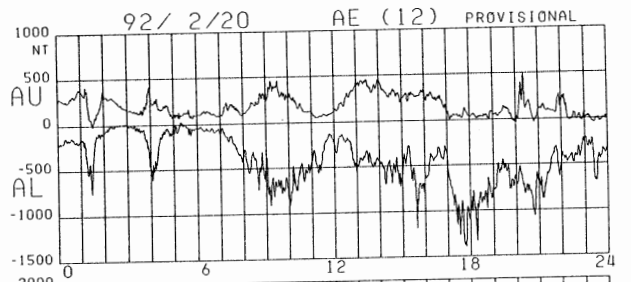
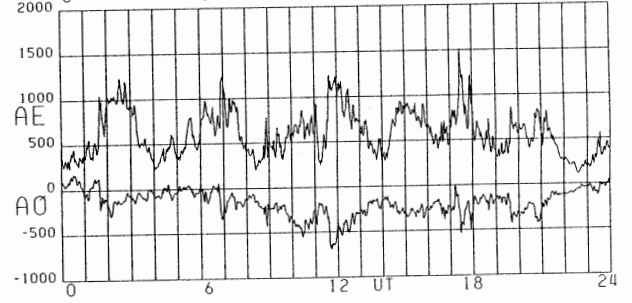
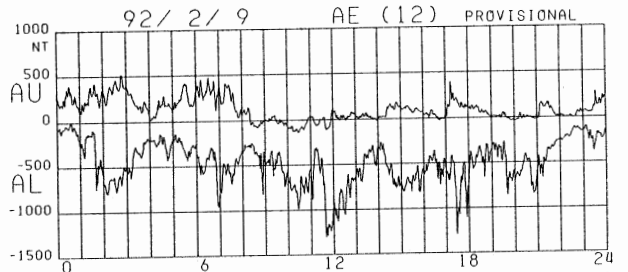
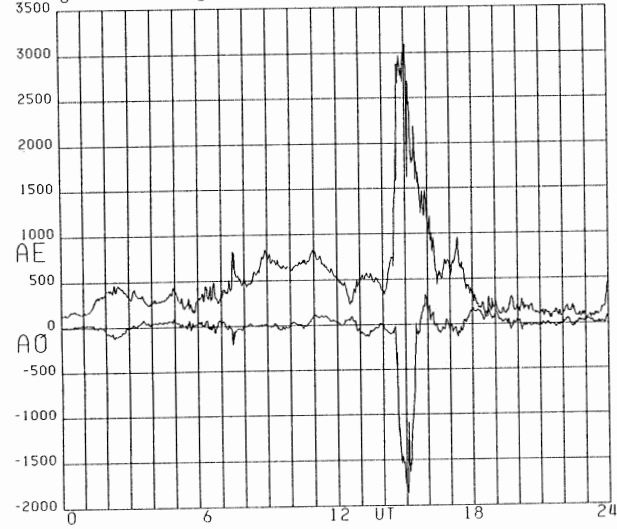
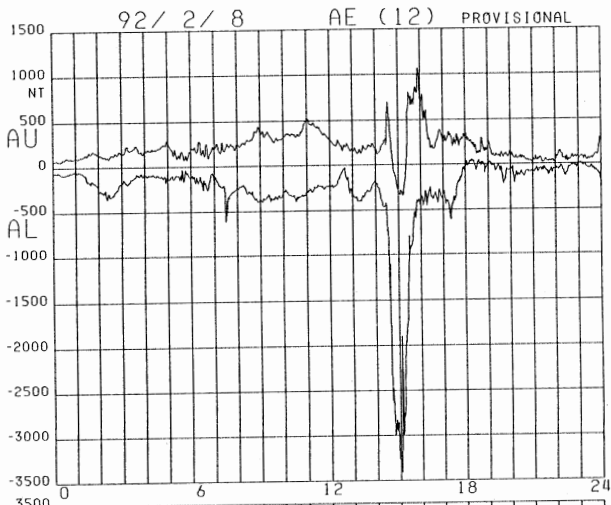


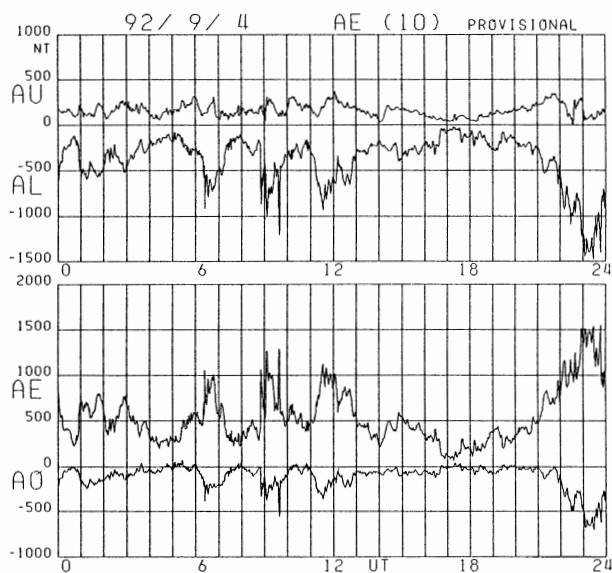
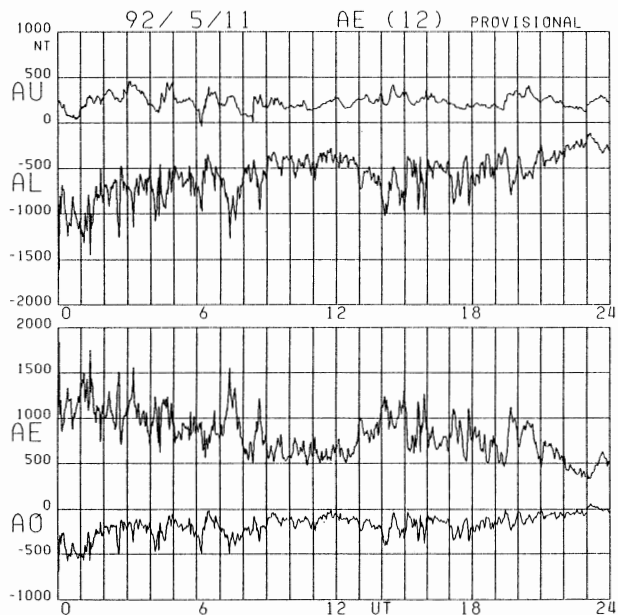
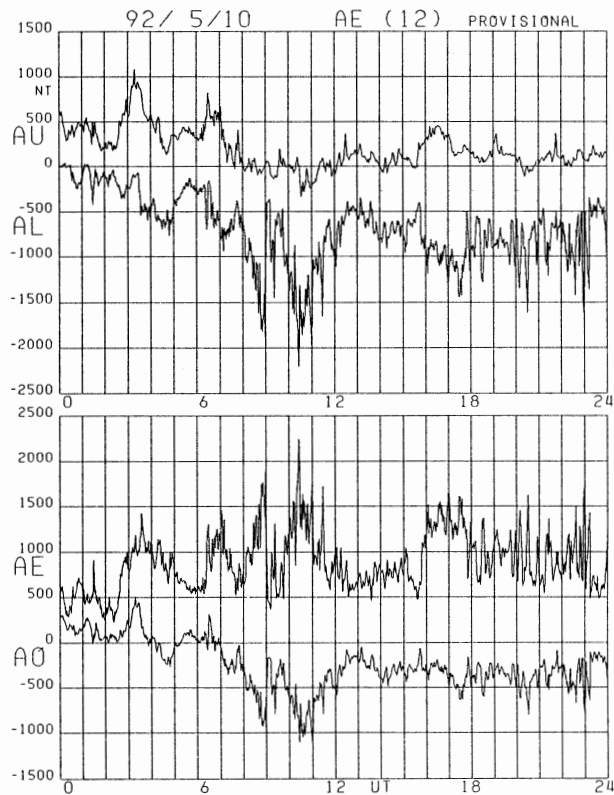
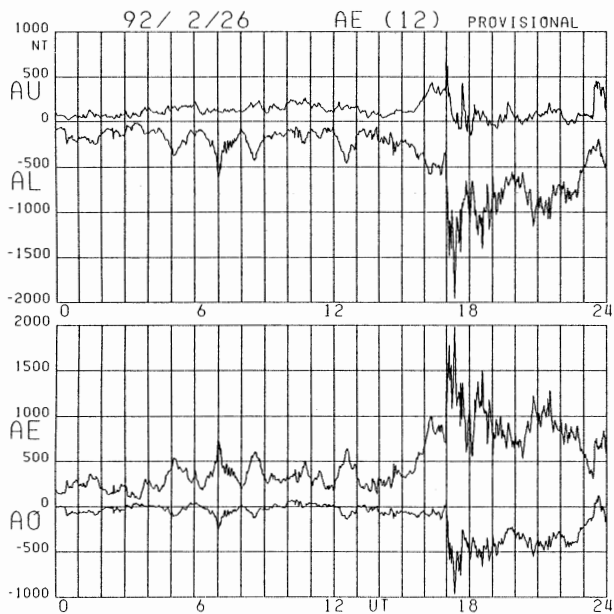


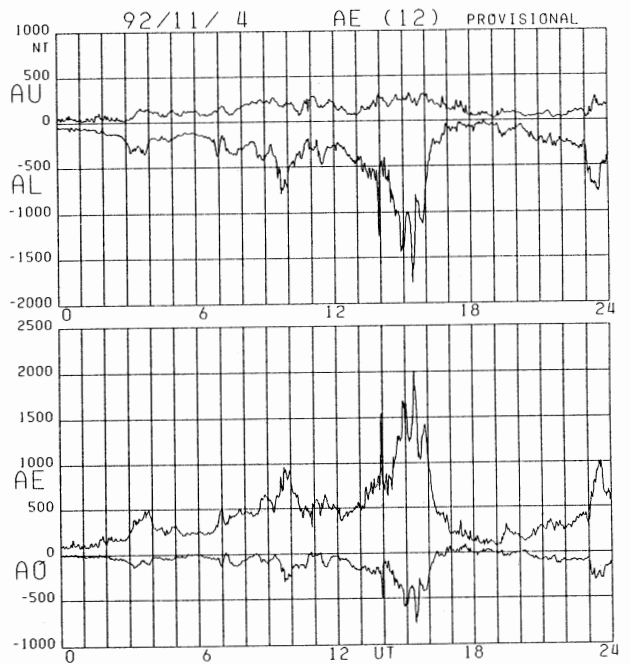
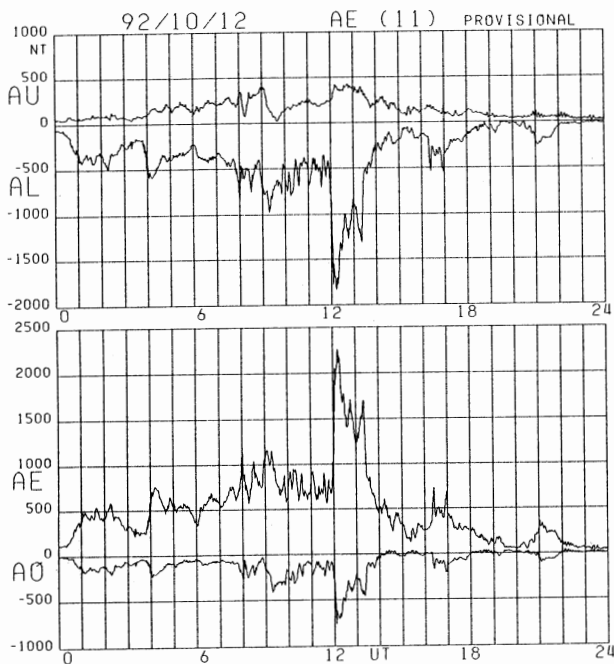
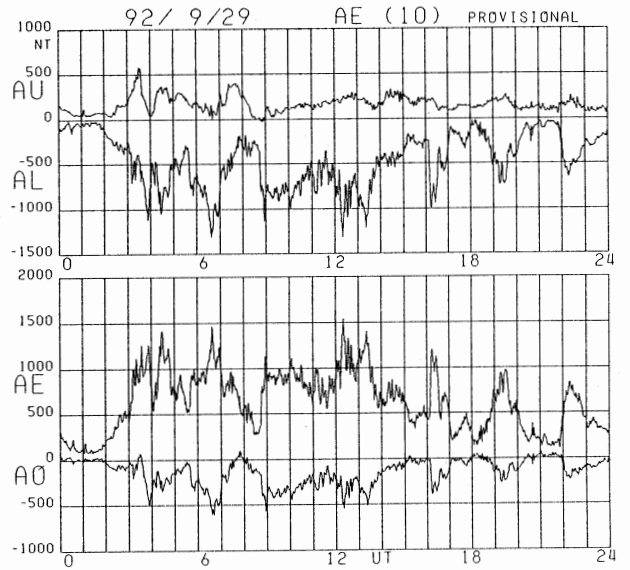
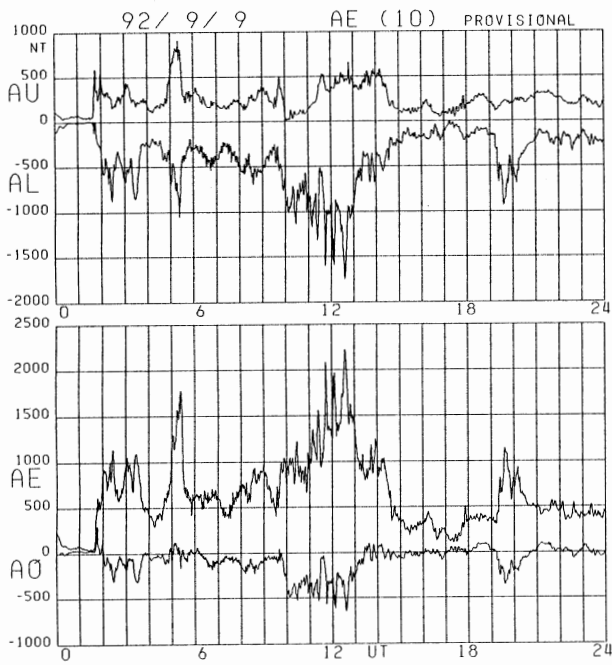












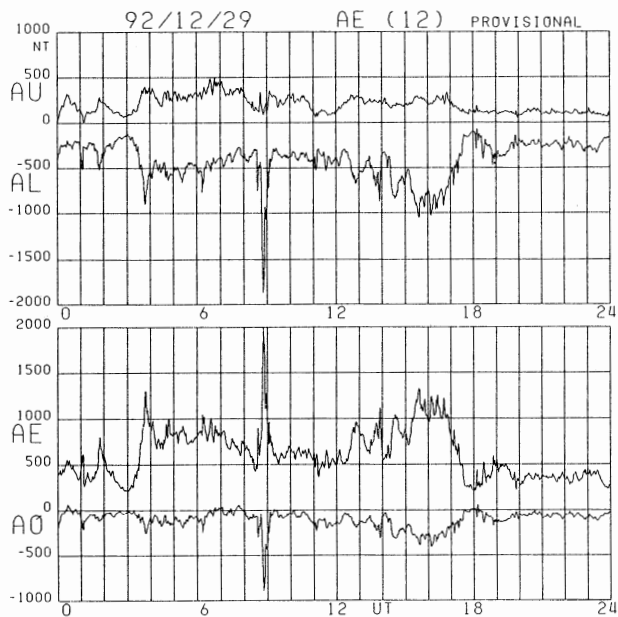
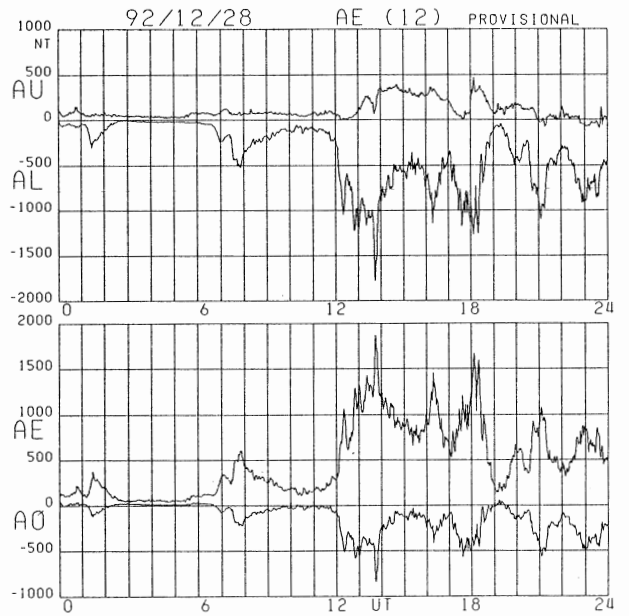
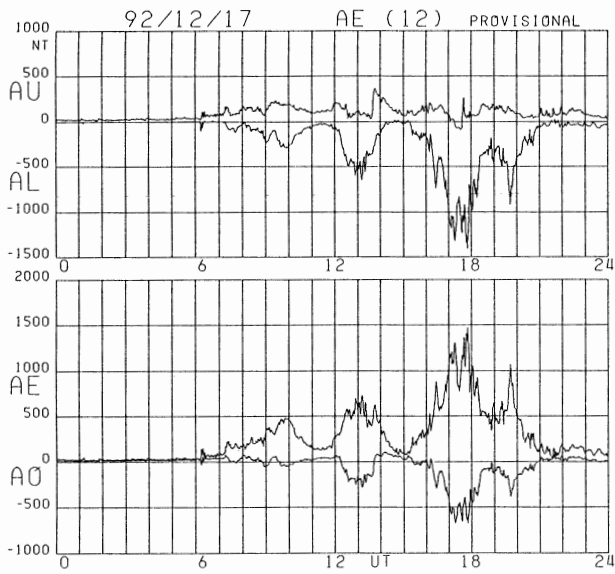
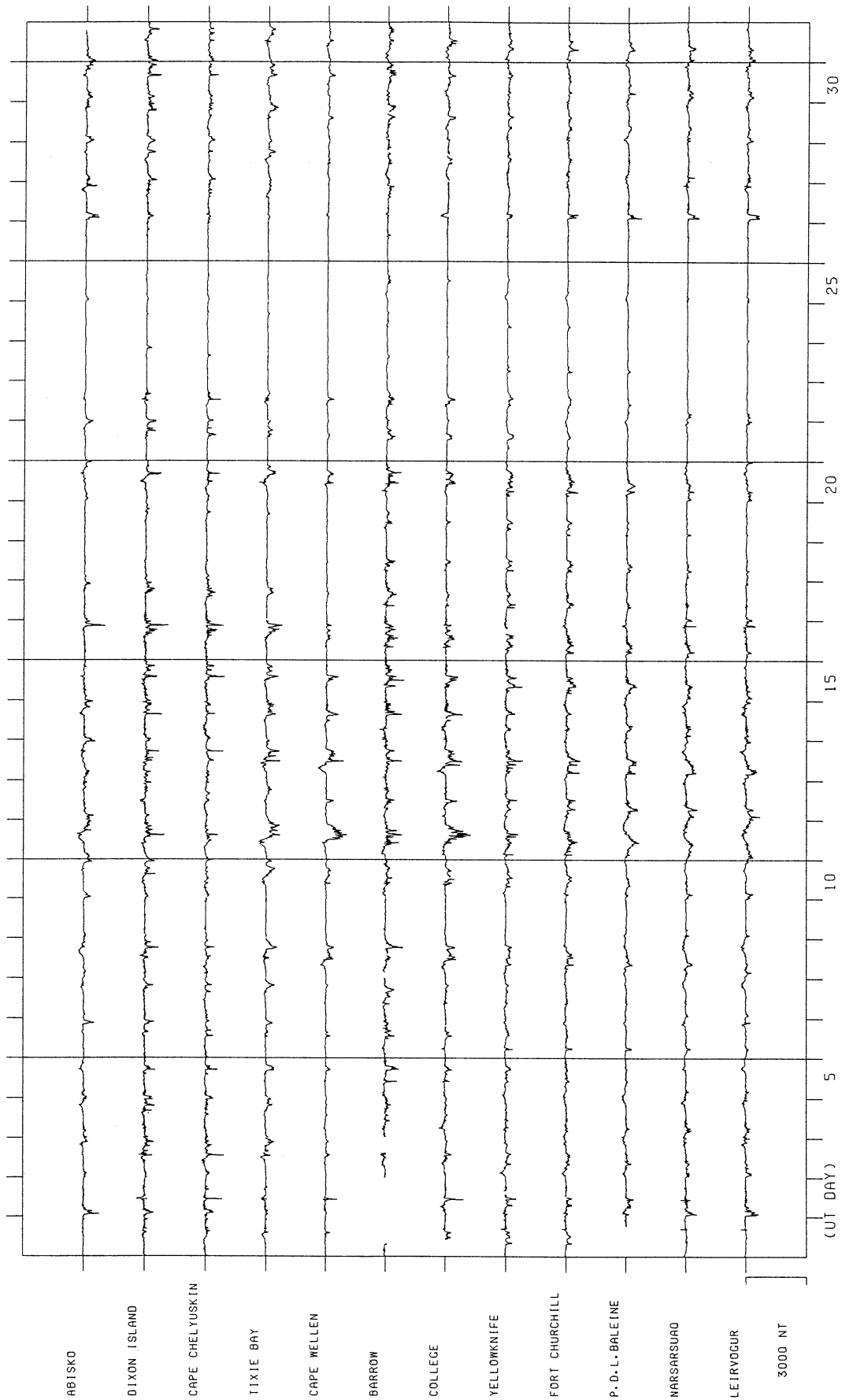
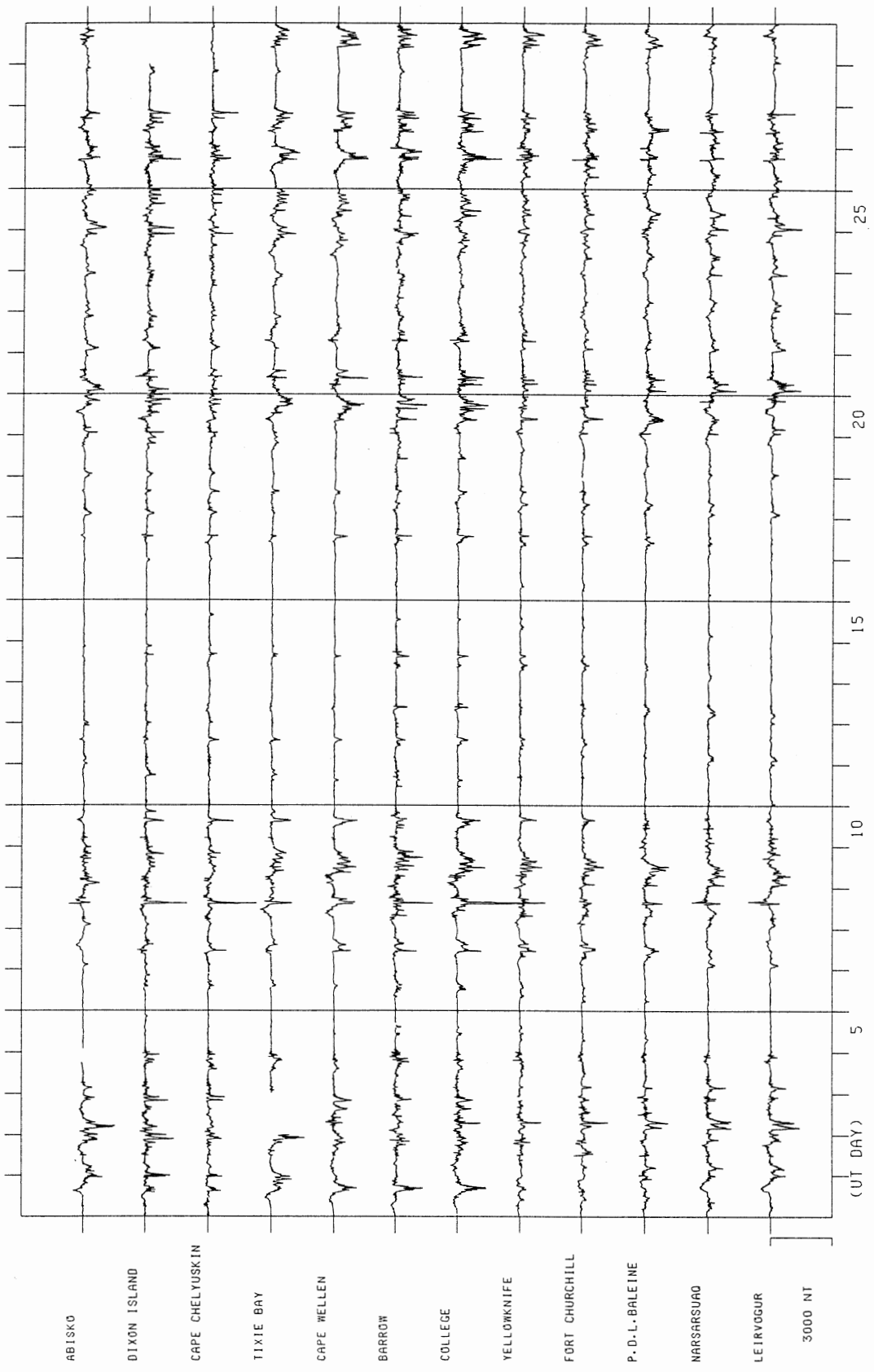


FIGURE 6

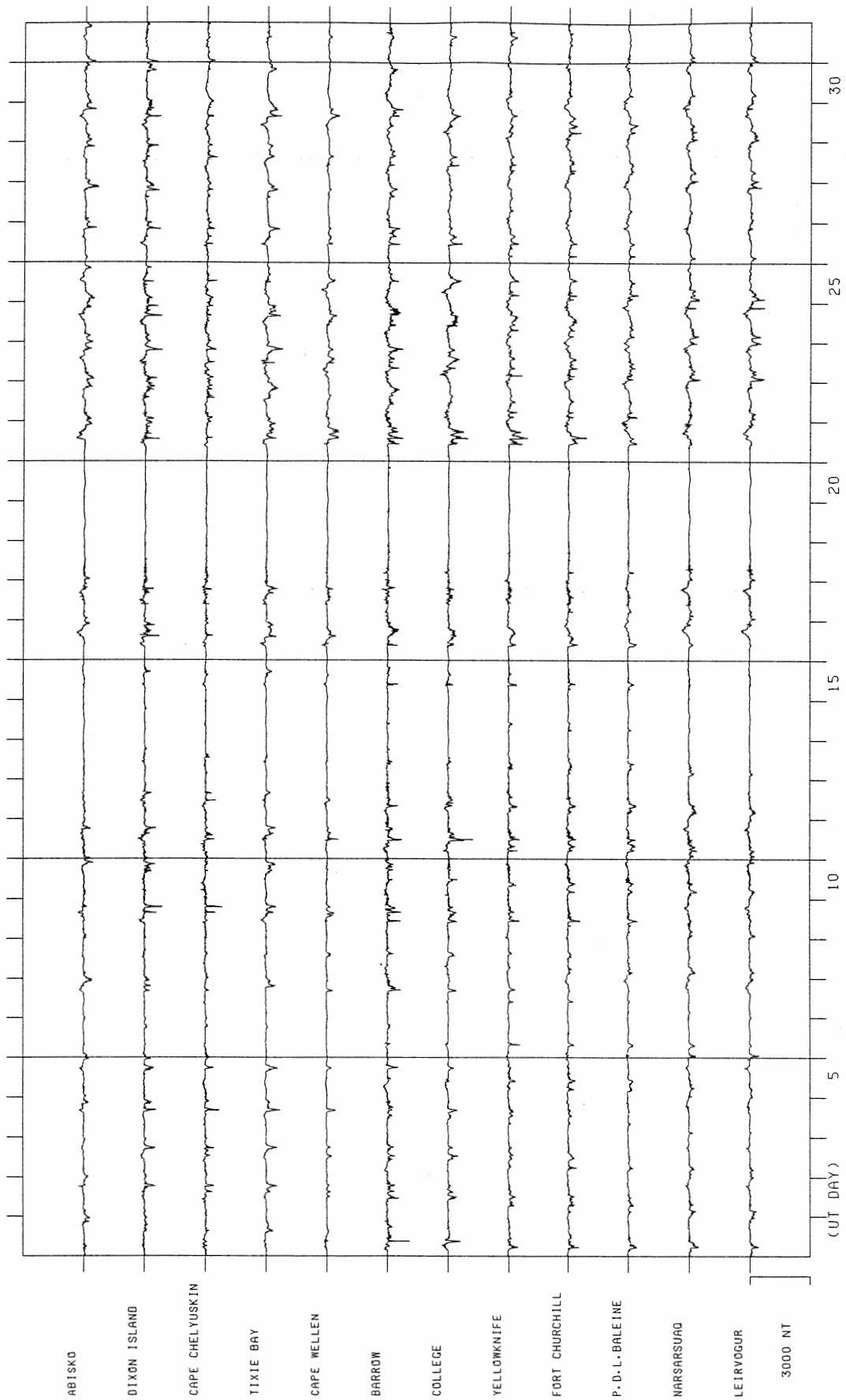
The H traces of magnetograms
from AE(12) stations
in each month
for January-December 1992.



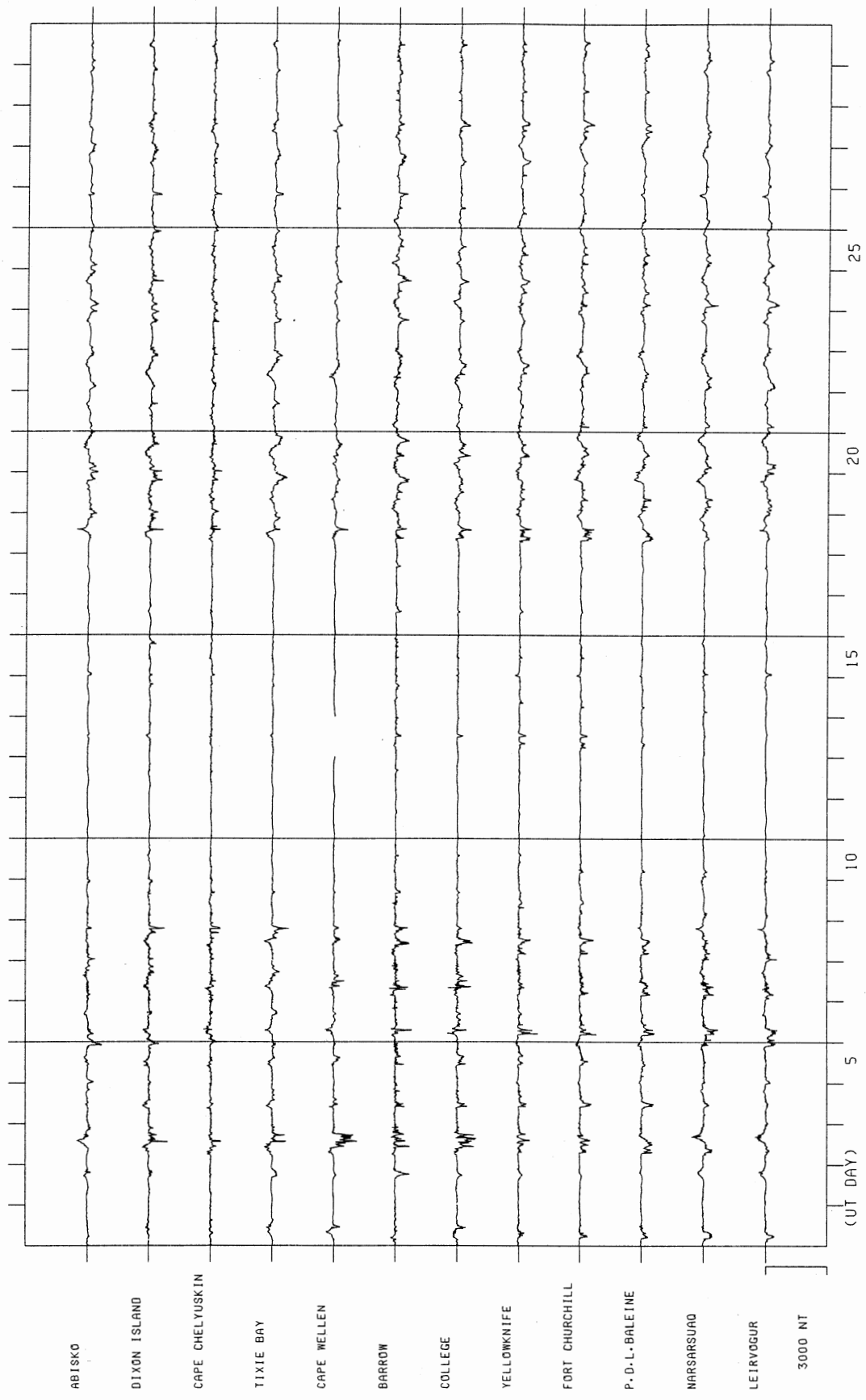
STACKED COMMON SCALE MAGNETOGRAMS FOR JANUARY 1992



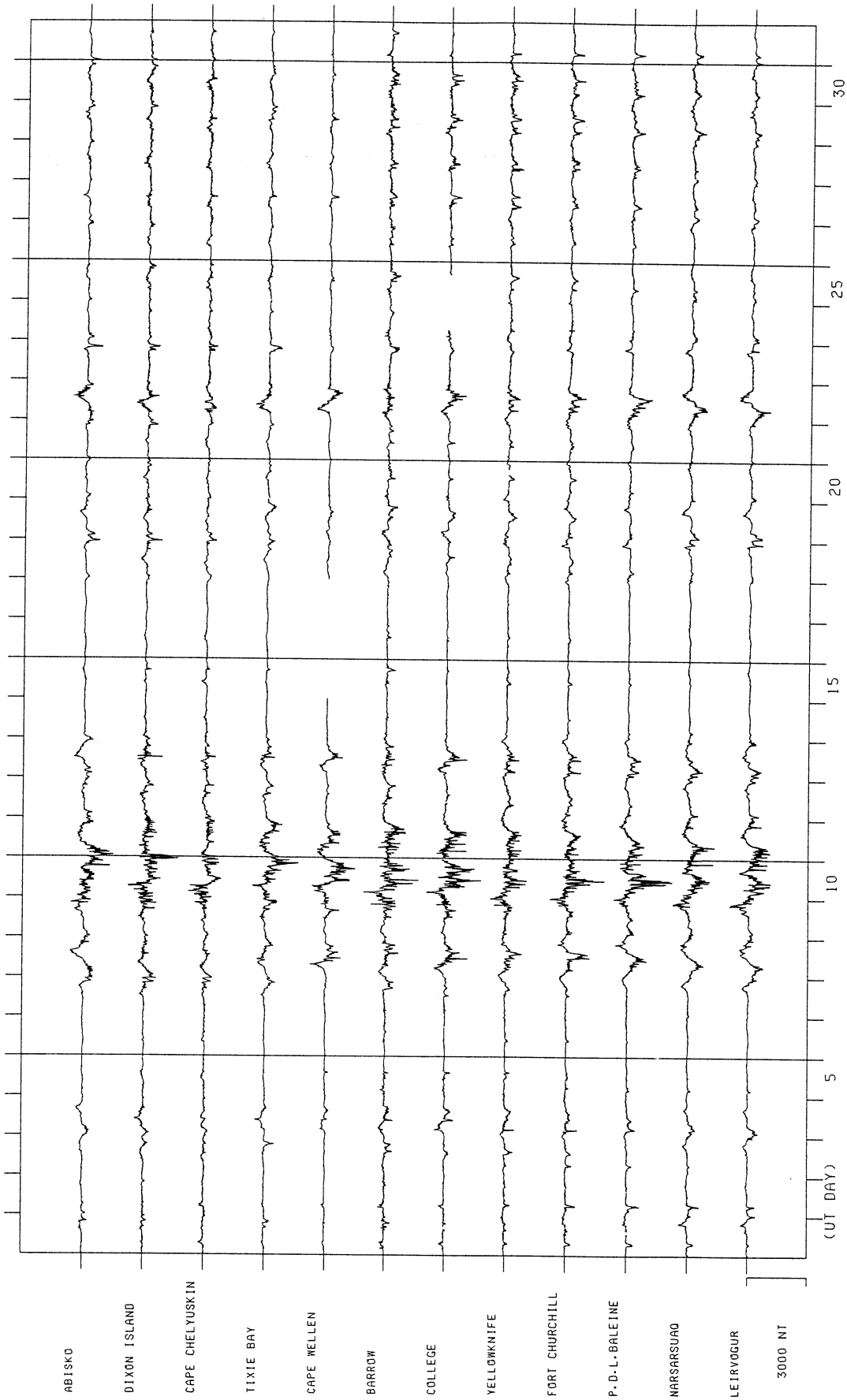
STACKED COMMON SCALE MAGNETOGRAMS FOR FEBRUARY 1992



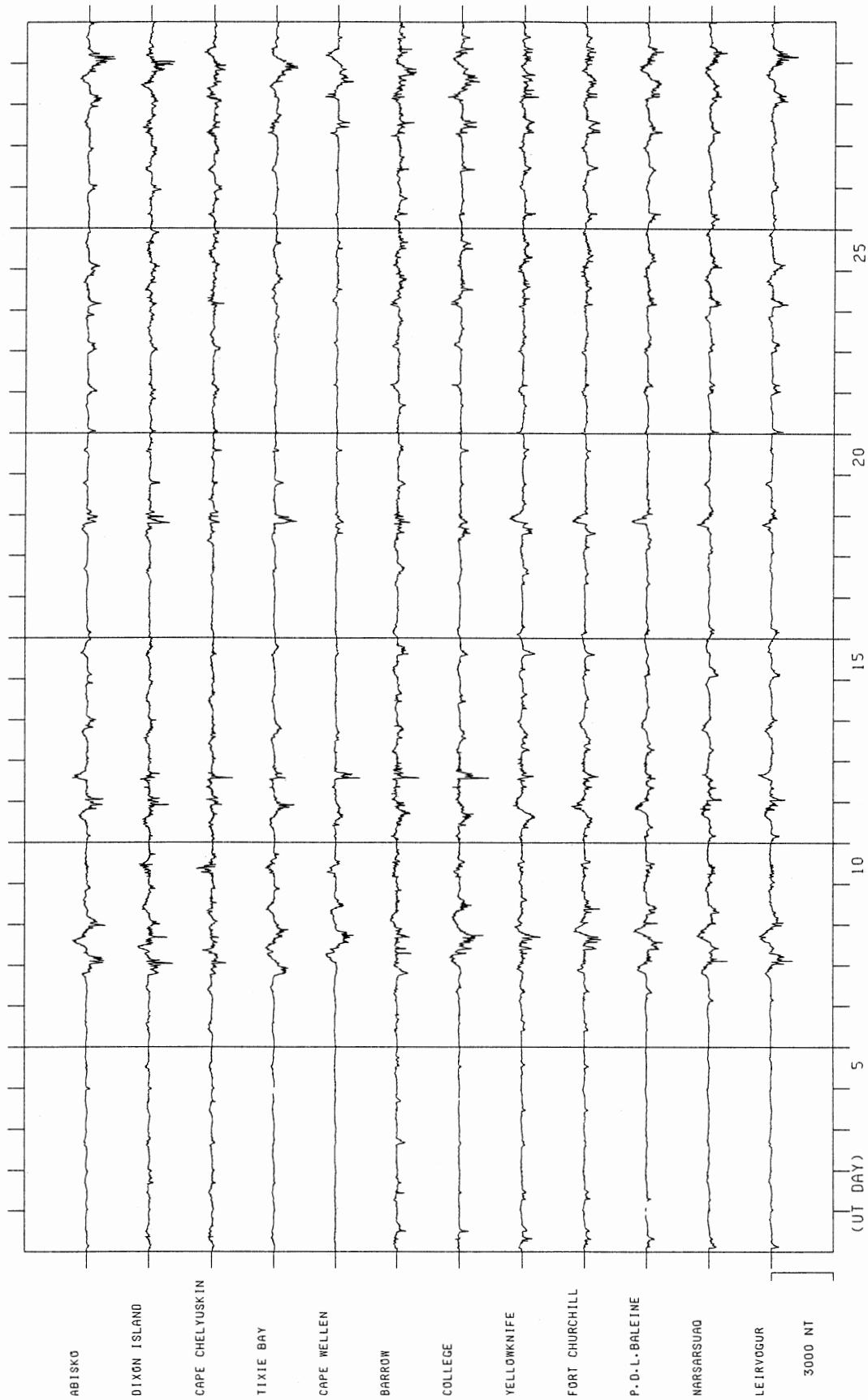
STACKED COMMON SCALE MAGNETOGRAMS FOR MARCH 1992



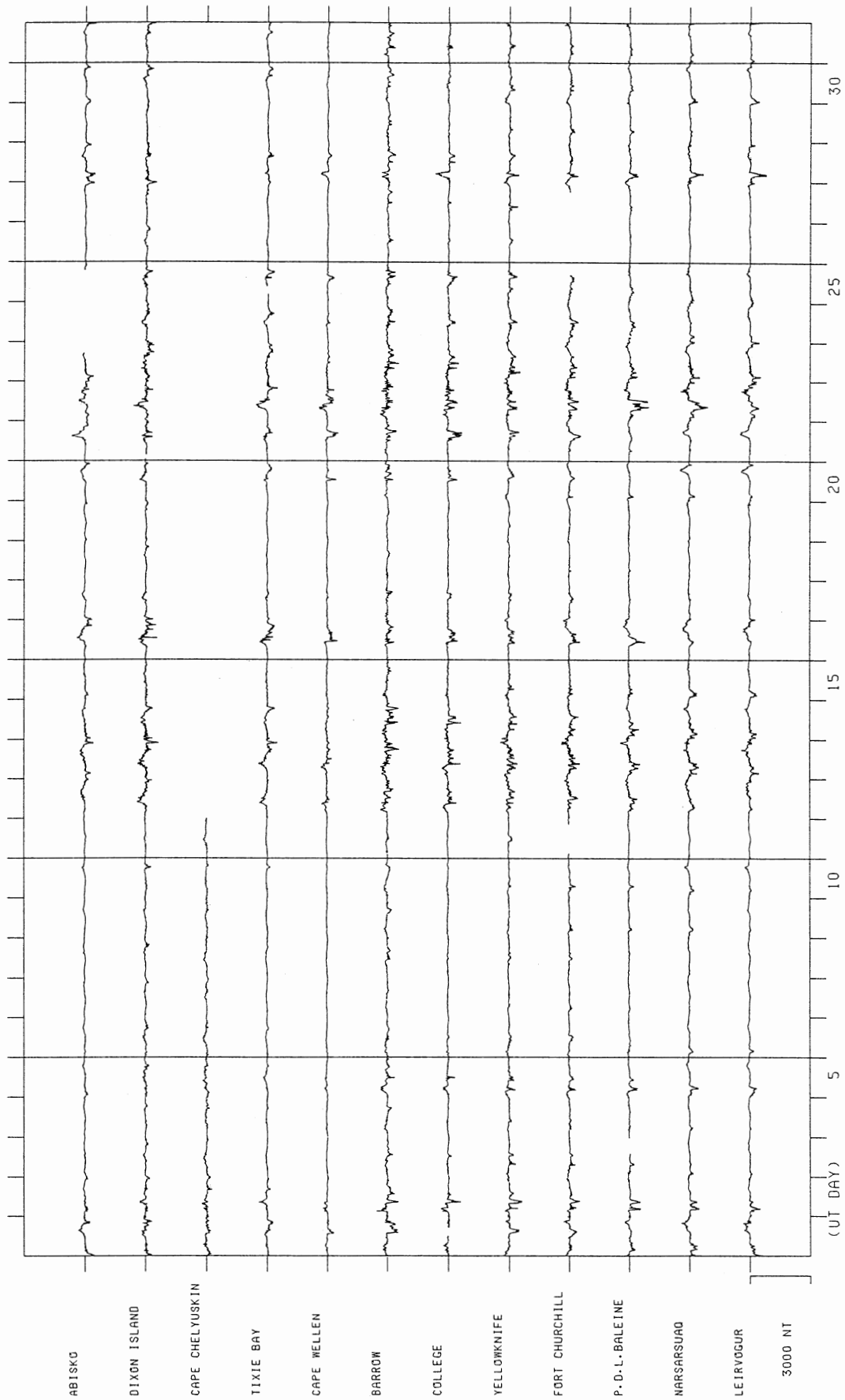
STACKED COMMON SCALE MAGNETOGRAMS FOR APRIL 1992



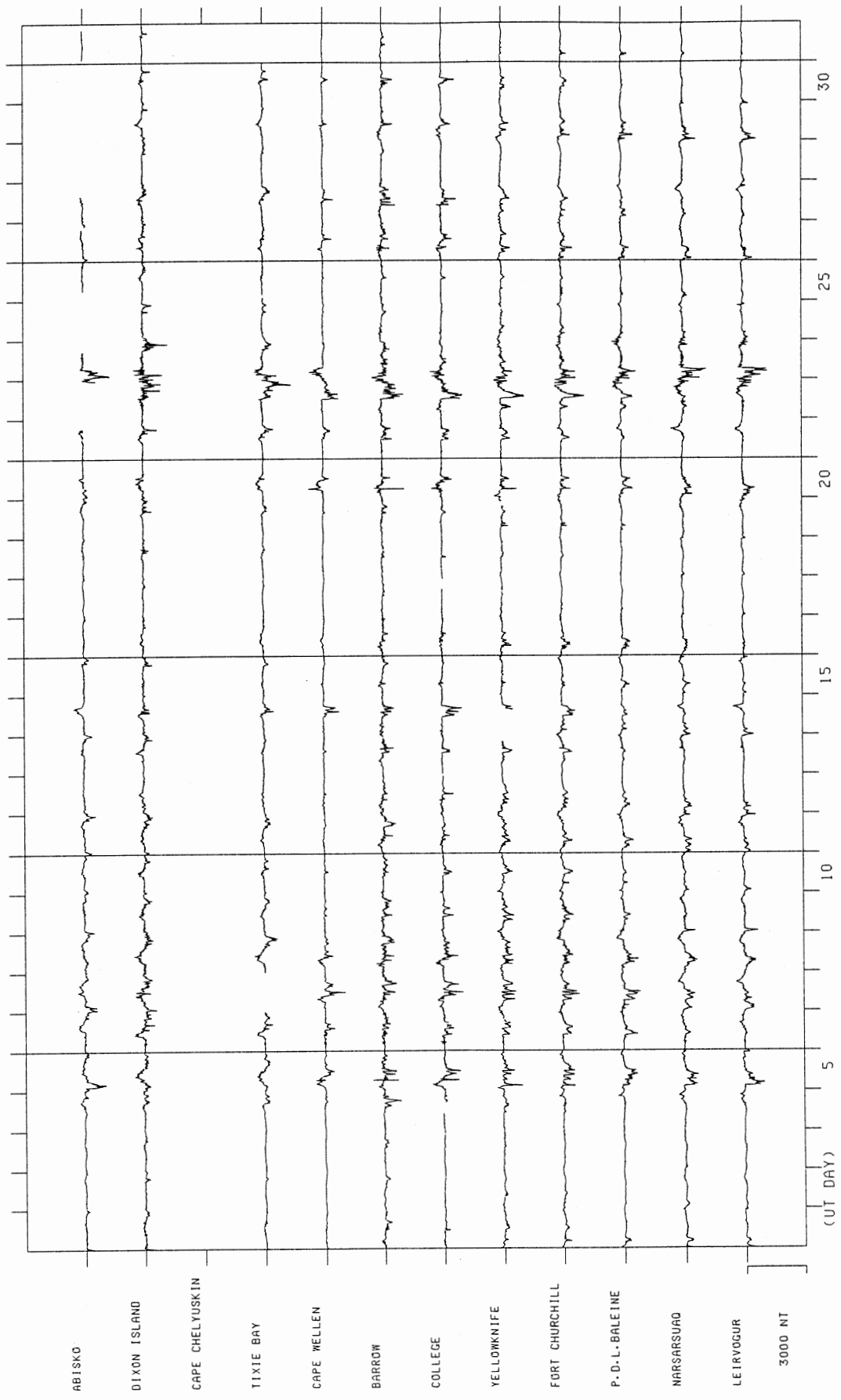
STACKED COMMON SCALE MAGNETOGRAMS FOR MAY 1992



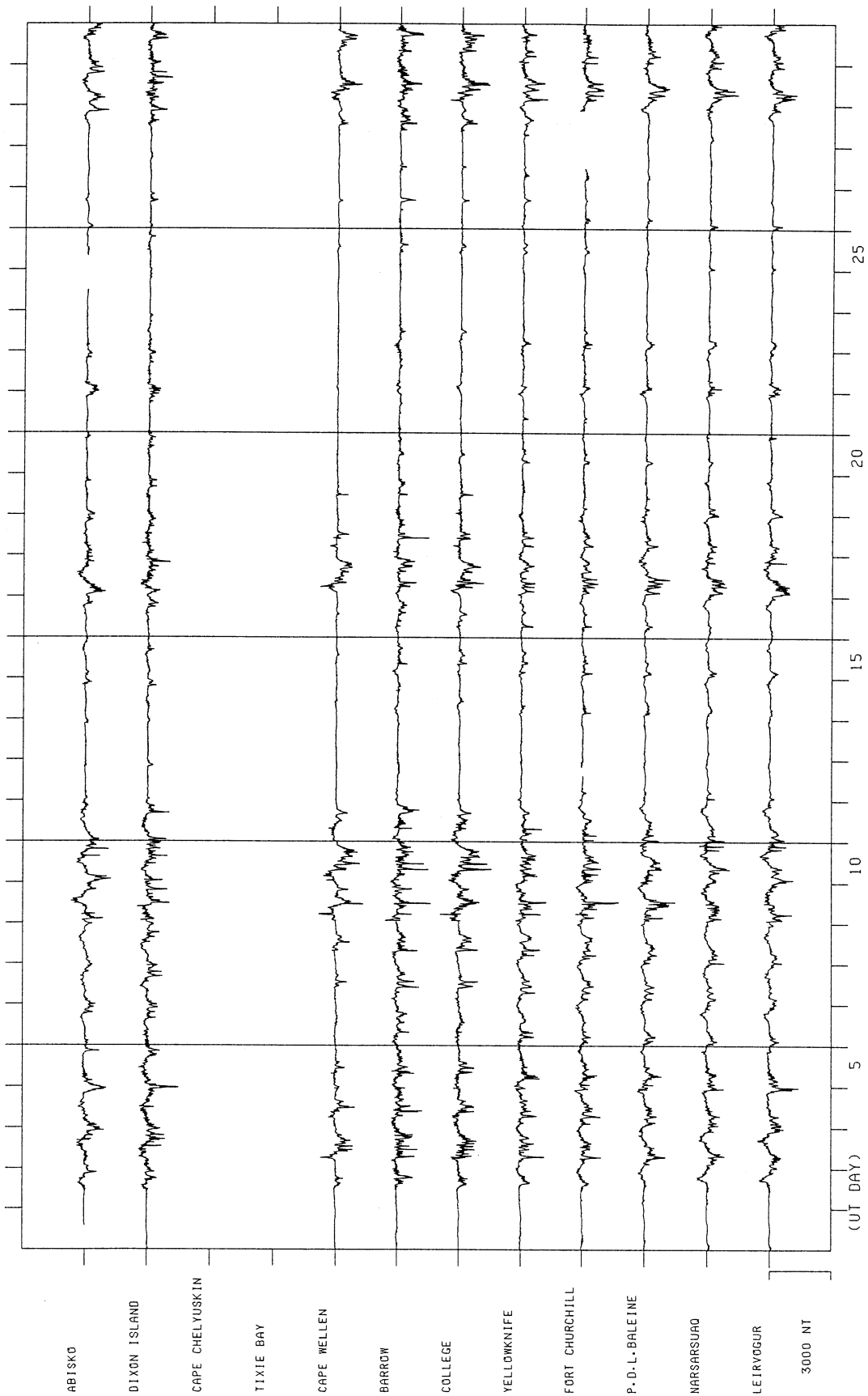
STACKED COMMON SCALE MAGNETOGRAMS FOR JUNE 1992



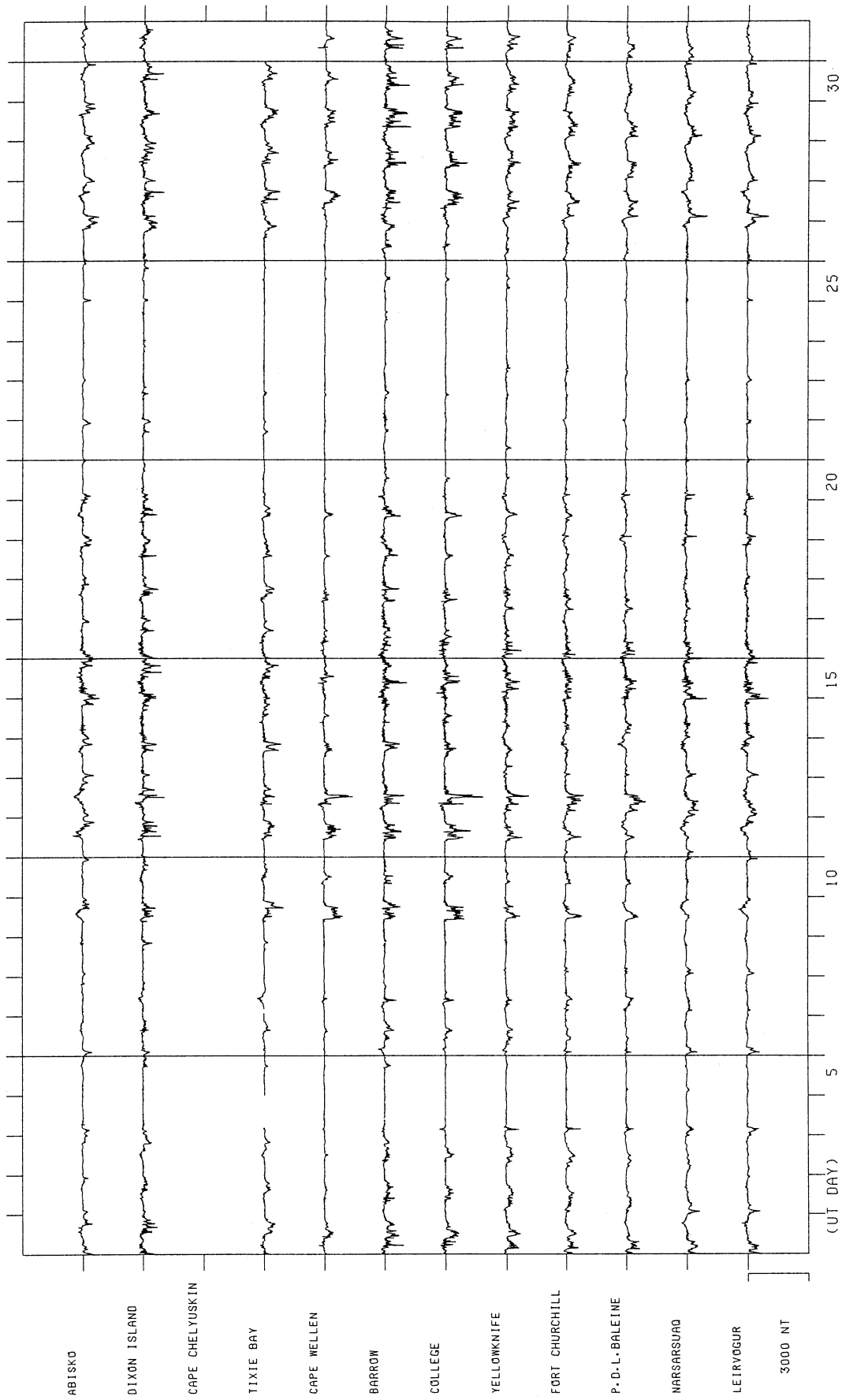
STACKED COMMON SCALE MAGNETOGRAMS FOR JULY 1992



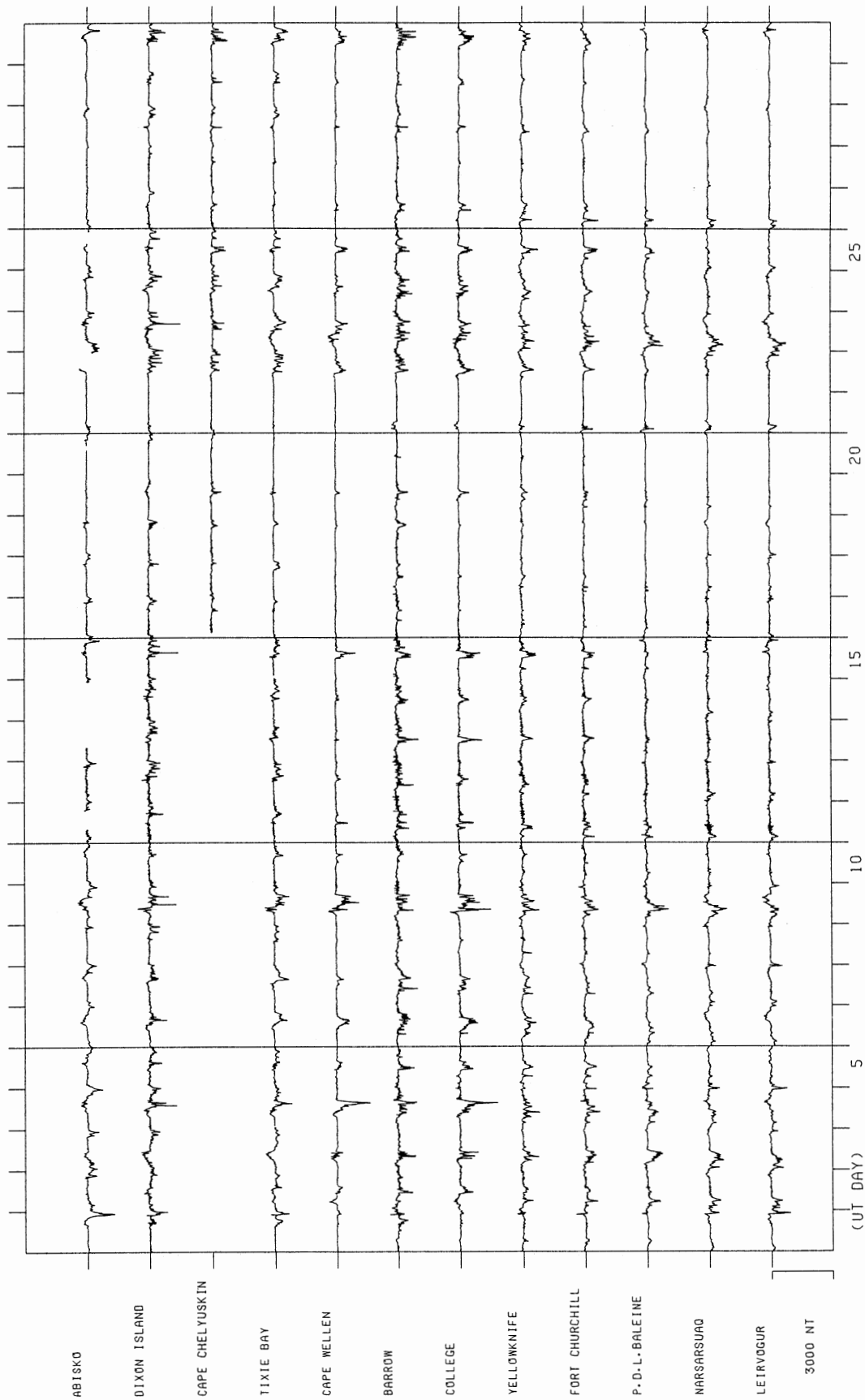
STACKED COMMON SCALE MAGNETOGRAMS FOR AUGUST 1992



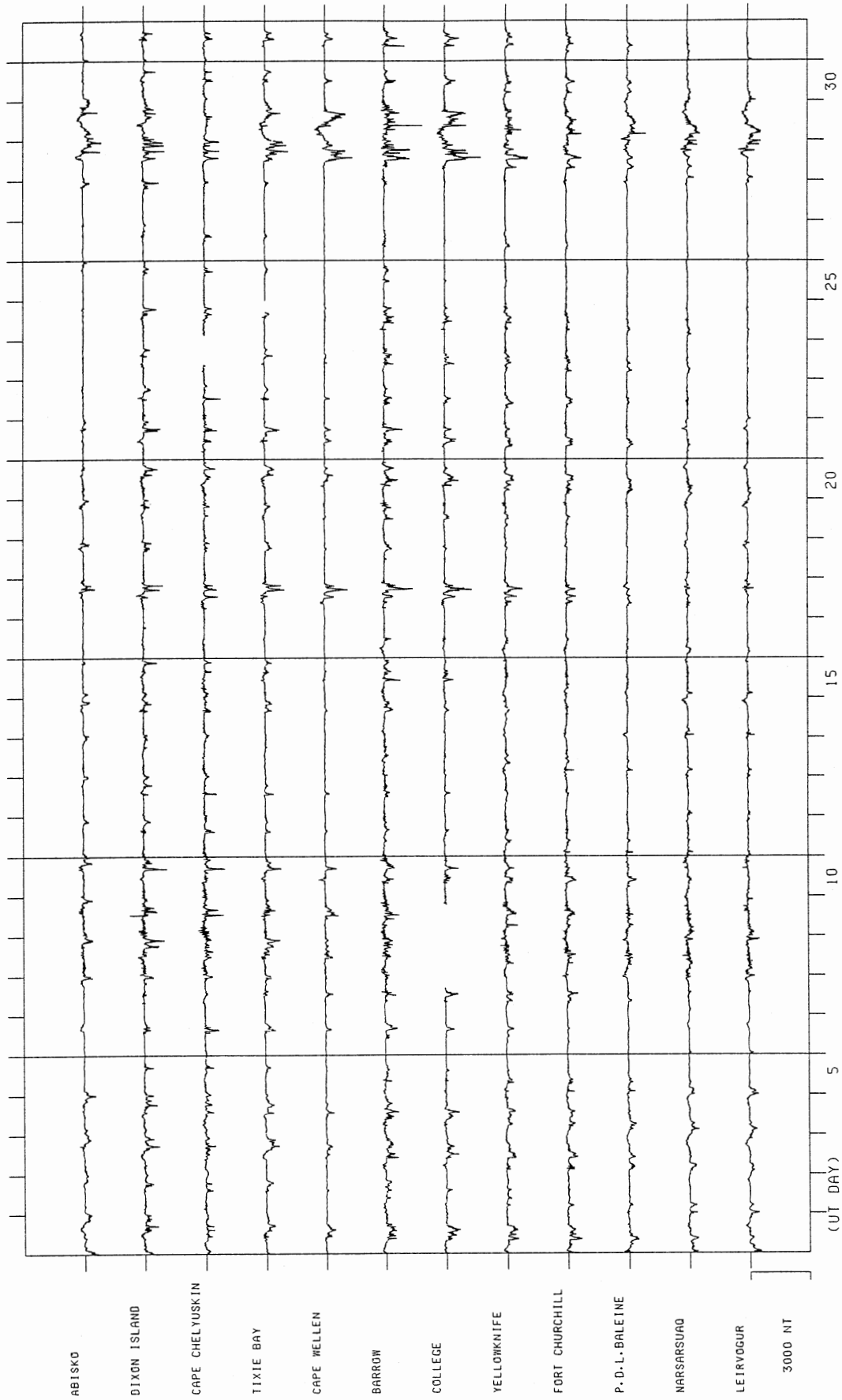
STACKED COMMON SCALE MAGNETOGRAMS FOR SEPTEMBER 1992



STACKED COMMON SCALE MAGNETOGRAMS FOR OCTOBER 1992



STACKED COMMON SCALE MAGNETOGRAMS FOR NOVEMBER 1992

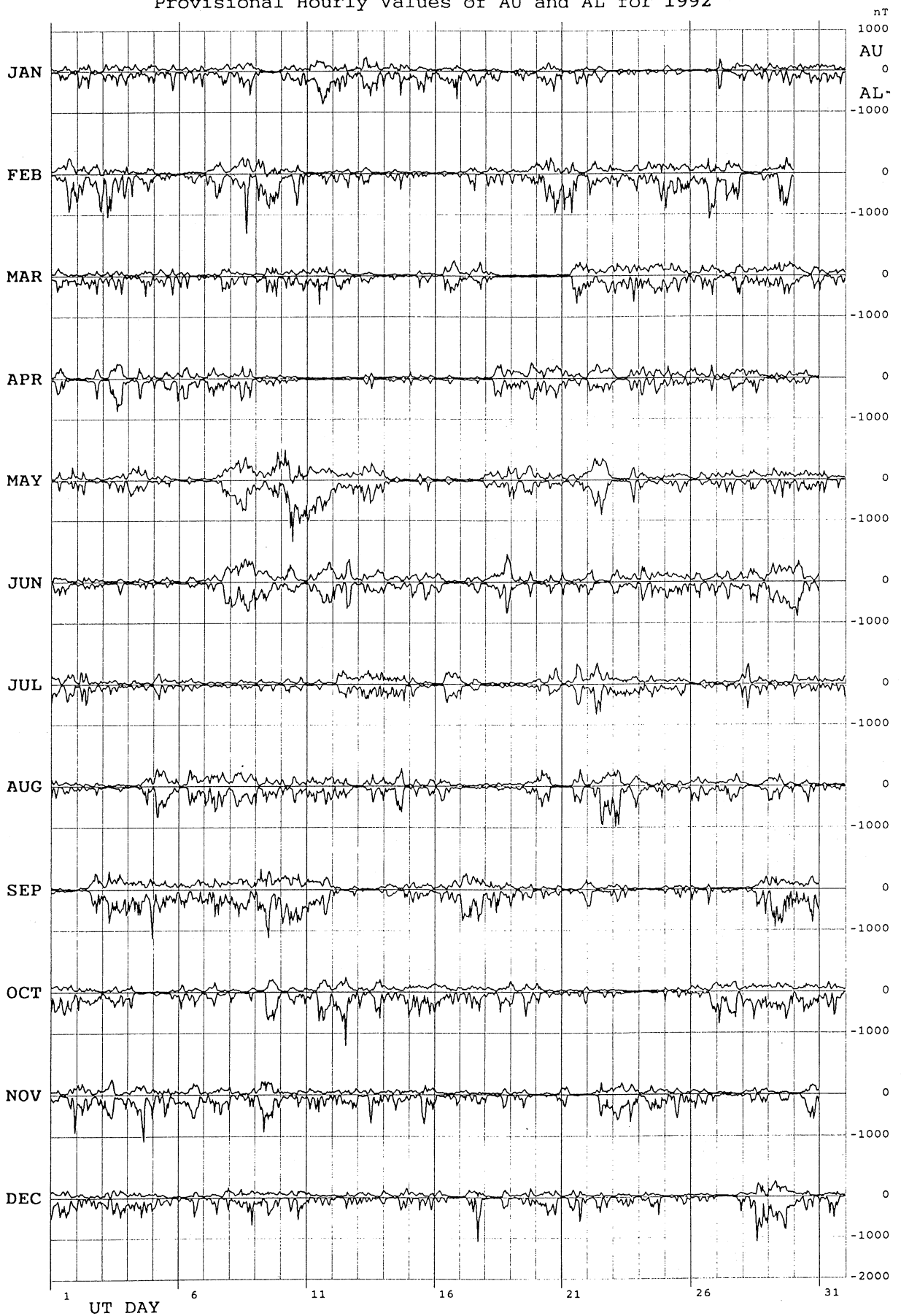


STACKED COMMON SCALE MAGNETOGRAMS FOR DECEMBER 1992

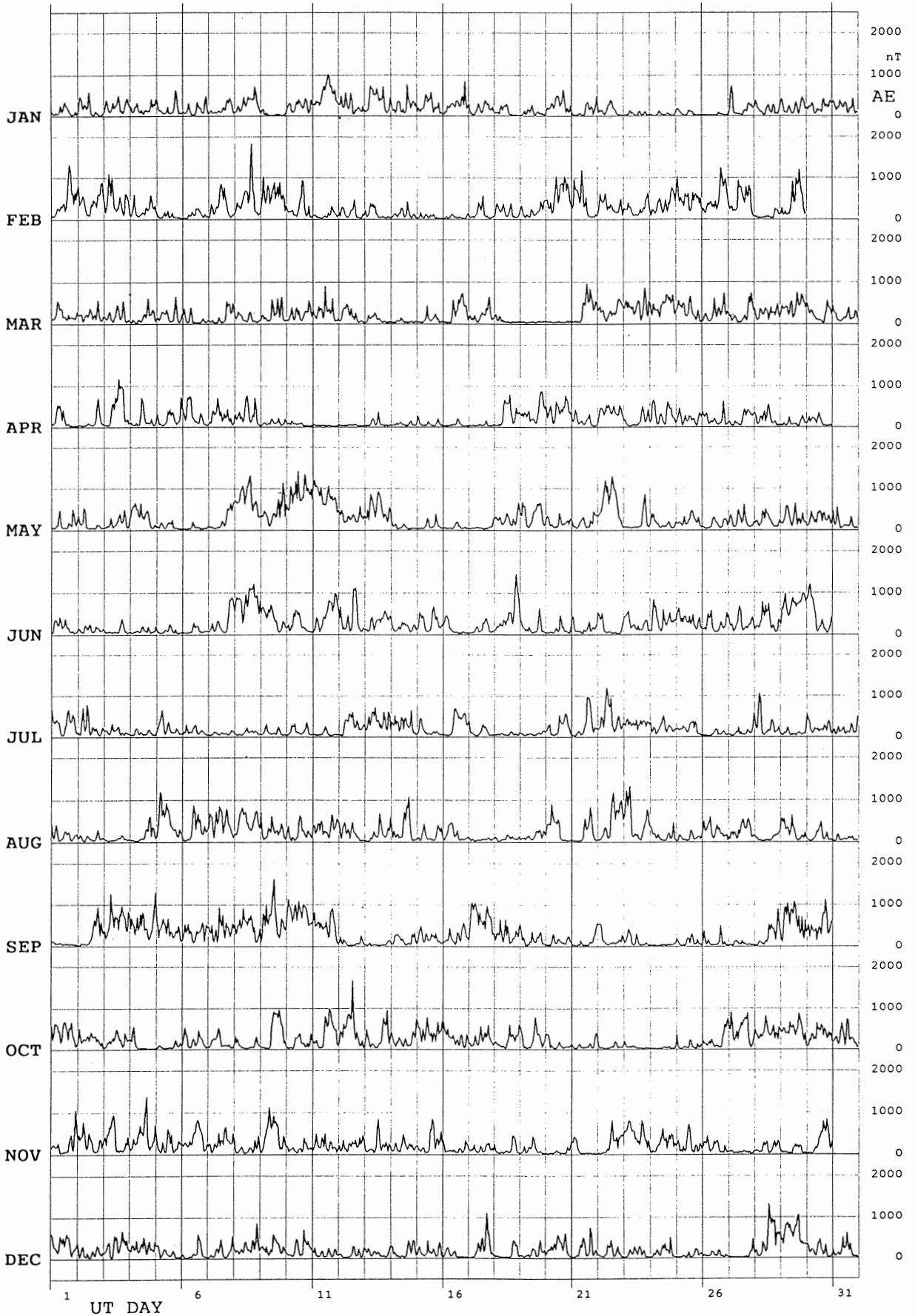
FIGURE 7

A summary plot of hourly values of
AU and AL indices
and
a summary plot of hourly values of
AE index
for January-December 1992.

Provisional Hourly Values of AU and AL for 1992



Provisional Hourly Values of AE index for 1992



Publications by the World Data Center C2 for Geomagnetism.

1. Data Catalogue

	Published in
Data Catalogue of World Data Center C2 for Geomagnetism No.24	1996

2. Data Books

No. 1 Equivalent current systems of the daily geomagnetic variations in December 1964	1978
No. 2 Electric fields and neutral winds in the ionospheric dynamo region as deduced from the daily geomagnetic variations in December 1964	1979
No. 3 Auroral Electrojet (AE) indices for January-June 1978	1981
No. 4 Auroral Electrojet (AE) indices for July-December 1978	1981
No. 5 Auroral Electrojet (AE) indices for January-June 1979	1982
No. 6 Auroral Electrojet (AE) indices for July-December 1979	1982
No. 7 Auroral Electrojet (AE) indices for January-June 1980	1983
No. 8 Auroral Electrojet (AE) indices for July-December 1980	1983
No. 9 Auroral Electrojet (AE) indices for January-June 1981	1984
No.10 Auroral Electrojet (AE) indices for July-December 1981	1984
No.11 Auroral Electrojet (AE) indices for January-June 1983	1985
No.12 Auroral Electrojet (AE) indices for July-December 1982	1985
No.13 Auroral Electrojet (AE) indices for July-December 1983	1986
No.14 Auroral Electrojet (AE) indices for January-June 1982	1986
No.15 Auroral Electrojet (AE) indices for January-June 1984	1987
No.16 Auroral Electrojet (AE) indices for July-December 1984	1988
No.17 Auroral Electrojet (AE) indices for July-December 1985	1989
No.18 Auroral Electrojet (AE) indices for January-June 1985	1989
No.19 Auroral Electrojet (AE) indices for January-June 1986	1990
No.20 Auroral Electrojet (AE) indices for July-December 1986	1991
No.21 Auroral Electrojet (AE) indices for January-June 1987	1992
No.22 Auroral Electrojet (AE) indices for July-December 1987	1993
No.23 Auroral Electrojet (AE) indices for January-June 1988	1994
No.24 Provisional Auroral Electrojet (AE) indices for January-December 1991	1998

3. Prompt Reports

Provisional Equatorial Dst Index (since Oct. 1985)	monthly
Provisional Auroral Electrojet Indices (AE11) for March 1989	1989
Provisional Auroral Electrojet Indices (AE11) for Jan-Dec 1990	1995
Provisional Auroral Electrojet Indices (AE11) for Jan-Dec 1993	1996
Provisional Auroral Electrojet Indices (AE11) for Jan-Dec 1994	1998
Provisional Geomagnetic Data Plots No1 (Jan-Dec 1989)	1990
Provisional Geomagnetic Data Plots No2 (Jan-Jun 1990)	1990
Provisional Geomagnetic Data Plots No3 (Jul-Dec 1990)	1991
Provisional Geomagnetic Data Plots No4 (Jan-Jun 1991)	1992
Provisional Geomagnetic Data Plots No5 (Jul-Dec 1991)	1992
Provisional Geomagnetic Data Plots No6 (Jan-Jun 1992)	1992
Provisional Geomagnetic Data Plots No7 (Jul-Dec 1992)	1993

Provisional Geomagnetic Data Plots No8 (Jan-Jun 1993)	1993
Provisional Geomagnetic Data Plots No9 (Jul-Dec 1993)	1994
Provisional Geomagnetic Data Plots No10(Jan-Jun 1994)	1994
Provisional Geomagnetic Data Plots No11(Jun-Dec 1994)	1995
Provisional Geomagnetic Data Plots No12(Jan-Jun 1995)	1995
Provisional Geomagnetic Data Plots No13(Jul-Dec 1995)	1996
Provisional Geomagnetic Data Plots No14(Jan-Jun 1996)	1996
Provisional Geomagnetic Data Plots No15(Jul-Dec 1996)	1997
Provisional Geomagnetic Data Plots No16(Jan-Dec 1997)	1998

4. Other publications

Report of Aeromagnetic Survey in Japan	1966
Japanese WMS Magnetic Charts for 1965	1966
WMA Inventory; First Issue	1970
WMA Inventory; Second Issue	1971
Mid-Latitude Geomagnetic Indices ASY and SYM (provisional) No.1 1989 - 1990	1992
Mid-Latitude Geomagnetic Indices ASY and SYM (provisional) No.2 1991	1993
Mid-Latitude Geomagnetic Indices ASY and SYM (provisional) No.3 1992	1994
Mid-Latitude Geomagnetic Indices ASY and SYM (provisional) No.4 1993	1994
Mid-Latitude Geomagnetic Indices ASY and SYM (provisional) No.5 1994	1995
Mid-Latitude Geomagnetic Indices ASY and SYM (provisional) No.6 1995	1996
Mid-Latitude Geomagnetic Indices ASY and SYM (provisional) No.7 1996	1997

(WMA: World Magnetic Archives; WMS: World Magnetic Survey)

The publications above are available on request. Requests should be made by mail to:

WDC-C2 for Geomagnetism, Kyoto
 Graduate School of Science
 Kyoto University
 Kyoto 606-8502, Japan

(The WDC-C2 for Geomagnetism, Kyoto is operated by the Data Analysis Center for Geomagnetism and Space Magnetism, Graduate School of Science, Kyoto University, Kyoto 606-8502, Japan.)

Many of our data services are available by WWW. The URL of our home page is:

<http://swdcdb.kugi.kyoto-u.ac.jp>

