

World Data Center C2 for Geomagnetism, Kyoto

Prompt Report

Provisional

AURORAL ELECTROJET INDICES (AE11)

for January - December 1994

July 1998

Data Analysis Center for
Geomagnetism and Space Magnetism
GRADUATE SCHOOL OF SCIENCE
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SPECIAL NOTICE

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 1991, January to December 1992, January to December 1995 and January to December 1996.

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Provisional Auroral Electrojet Indices (AE11)
for January - December 1994

1. Introduction

This report, prepared as part of the contribution of the WDC-C2 for Geomagnetism, Kyoto to the STEP program, gives provisional Auroral Electrojet Indices for the year 1994. For the details on the AE indices, reference is made to Data Books Nos. 3-23 published from the WDC-C2 for Geomagnetism, UAG reports published from WDC-A for Solar-Terrestrial Physics, and the paper by T. Davis and M. Sugiura (1966). The production of the AE indices is an activity of the WDC-C2 for Geomagnetism, Kyoto as a contributing member of the International Service of Geomagnetic Indices.

To facilitate a rapid publication of provisional AE indices, less rigorous screening was applied to the data used than is normally done for the derivation of the AE indices. The version of provisional AE indices reported here, which we call the provisional AE(11), does not include the data from Tixie for all the periods for which we did not receive data in time. The final AE indices will be calculated and published in the Data Book series at later dates.

2. Data Used

The data from the eleven observatories listed in Table 1 are used. Digital values recorded by digital magnetometers were supplied directly to us by LRV, NAQ and ABK and via INTERMAGNET from CMO, BRW, YKC, FCC and PBQ. CCS, CWE and DIK data were digitized by AARI and supplied to us as a cooperative project of WDC-C2 Kyoto, WDC-A for STP, WDC panel and AARI.

3. Results

The monthly quiet-time H reference values are listed in Table 2. Table 3 gives the hourly average values of the provisional AE(11) indices (AU, AL, AE and AO).

Daily graphs of 1.0-min AE indices (AU, AL, AE and AO) are shown in Fig. 2, and corresponding plots of the contributing stations are given in Fig. 3. Supplemental plots for disturbed days are given at the end of Fig. 2. Figure 4 shows the H-traces of magnetograms from AE(11) stations from January to December 1994. A summary plot of hourly values of AU and AL indices is given in Fig. 5.

4. 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

Table 1. List of AE(12) Stations.

Observatory	Code	Geographic Coord. Lat.(°N)Long.(°E)		Geomagnetic Coord. 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 --not used--)	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	NAQ	61.20	314.16	71.21	36.79
Leirvogur	LRV	64.18	338.30	70.22	71.04

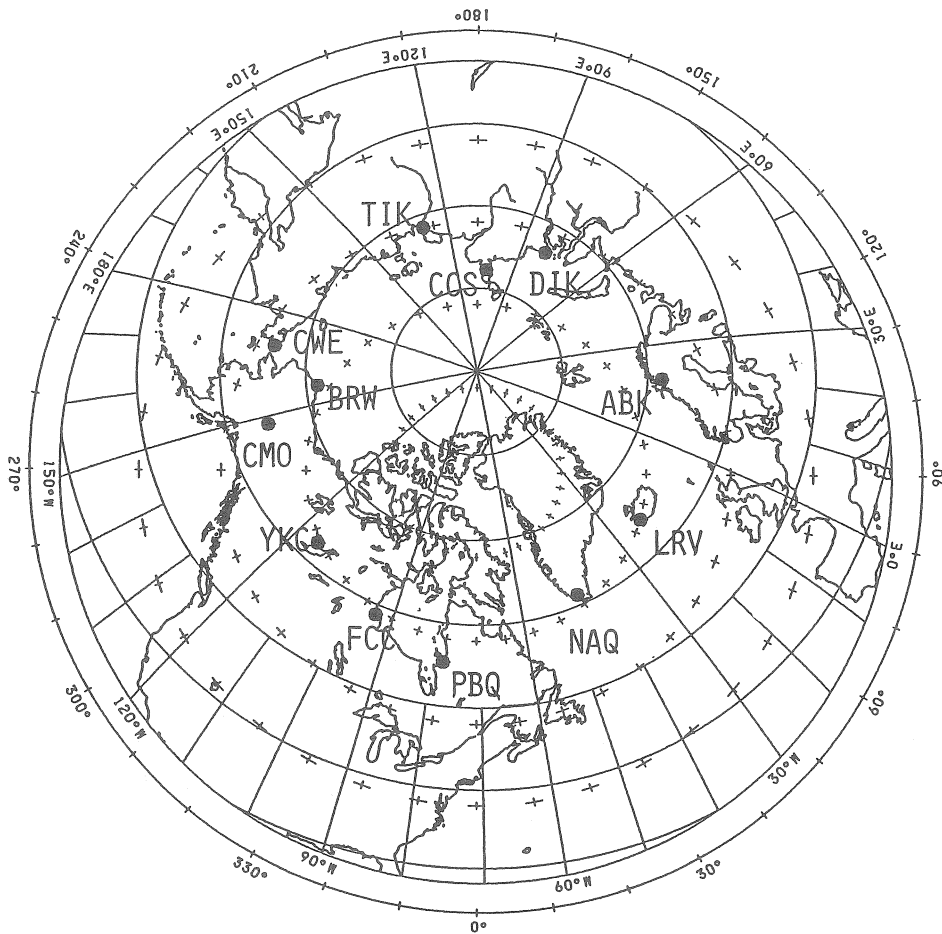


Figure 1. Distribution of AE(12) stations.

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.

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 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. 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 cooperations 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, Kyoto 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 Prompt Report.

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Table 2. Monthly quiet-time H reference values (unit in nT)
(Year 1994)

STATION	Jan.	Feb.	Mar.	Apr.	May	June
Abisko	11523	11514	11510	11521	11521	11516
Dixon Island	5972	5978	5967	5974	5965	5961
Cape Chelyuskin	3067	3071	3091	3052	3042	3056
Tixie Bay	* not available *					
Cape Wellen	13846	13835	13835	13826	13826	13831
Barrow	9415	9402	9417	9426	9414	9409
College	12715	12701	12711	12713	12711	12712
Yellowknife	8800	8781	8802	8810	8800	8808
Fort Churchill	8037	8020	8041	8048	8053	8059
Poste-de-la-Baleine	11126	11123	11133	11141	11144	11150
Narssarssuaq	12349	12340	12347	12353	12352	12359
Leirvogur	12435	12427	12429	12440	12435	12438

STATION	July	Aug.	Sep.	Oct.	Nov.	Dec.
Abisko	11521	11517	11508	11506	11510	11508
Dixon Island	5962	5962	5954	5952	5951	5948
Cape Chelyuskin	3056	* not available *			3038	3035
Tixie Bay	* not available *					
Cape Wellen	13831	13827	13818	13812	13803	13801
Barrow	9412	9401	9405	9396	9392	9386
College	12714	12707	12707	12695	12699	12697
Yellowknife	8820	8813	8819	8806	8828	8814
Fort Churchill	8067	8065	8069	8060	8073	8076
Poste-de-la-Baleine	11156	11158	11165	11157	11166	11167
Narssarssuaq	12359	12361	12359	12363	12366	12367
Leirvogur	12443	12439	12433	12436	12439	12438

TABLE 3

Monthly tables of
provisional hourly average AE indices
(AU, AL, AE and AO)
for January-December 1994.

1994
January

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
D 1	118	177	136	100	127	163	277	129	74	119	80	247	171	115	112	114	99	131	70	30	57	30	39	35	115
2	54	52	70	106	59	104	167	153	144	154	133	95	50	88	86	99	81	63	51	63	53	51	60	46	87
3	88	48	47	33	28	33	80	107	93	56	62	89	120	94	52	57	100	89	133	107	145	41	26	35	73
4	28	60	50	31	59	60	65	78	55	45	71	39	29	35	23	28	24	12	13	8	8	12	13	14	36
Q 5	13	20	31	19	22	19	20	16	13	17	15	22	22	10	17	38	18	13	17	14	18	13	17	36	19
6	59	73	111	130	69	53	83	93	50	49	51	83	58	41	45	65	45	35	14	21	31	84	86	41	61
7	27	35	31	27	27	28	37	21	20	20	24	18	28	27	20	18	11	10	8	28	51	18	16	23	24
8	24	32	37	47	61	68	72	51	40	33	31	15	15	21	24	1	10	13	14	12	14	17	23	19	29
9	26	30	28	17	17	18	14	22	18	10	12	21	21	23	14	13	10	10	9	6	6	18	19	21	17
Q 10	17	17	20	16	16	18	21	24	27	15	18	14	14	14	24	17	11	15	12	15	14	15	13	11	17
11	13	21	34	18	25	38	84	115	68	61	68	112	168	87	38	102	180	214	249	208	179	221	274	237	117
D 12	146	133	116	107	192	128	115	77	115	78	113	88	103	103	171	139	81	91	64	60	78	75	159	154	116
D 13	143	127	128	164	171	120	139	102	102	68	59	103	145	159	66	63	65	106	127	102	94	67	155	218	116
D 14	157	173	87	154	199	120	123	112	66	39	98	93	89	121	210	110	180	53	54	112	97	88	93	102	114
15	114	113	106	172	134	160	137	93	97	49	31	39	55	97	90	64	28	79	141	174	119	268	137	108	109
16	104	93	104	149	193	170	111	95	139	132	56	114	133	46	61	55	100	156	167	153	119	90	79	72	112
D 17	92	260	215	231	167	210	211	168	87	98	100	166	145	81	51	69	111	56	80	57	79	67	106	174	128
18	133	99	77	70	92	86	79	72	109	146	98	105	85	58	153	169	167	213	128	76	84	94	74	65	105
19	127	73	114	178	93	115	182	172	149	127	133	80	79	100	141	63	36	32	73	72	85	76	83	125	105
20	99	65	64	31	89	96	145	84	71	59	40	84	49	38	85	57	70	41	102	62	102	115	46	54	73
21	46	57	47	64	100	94	81	55	41	35	48	41	15	17	21	19	58	95	101	100	111	126	164	184	72
22	222	158	119	93	83	82	50	36	36	46	47	43	43	66	51	32	33	37	54	38	39	50	118	123	71
23	97	86	61	56	35	29	23	34	54	43	32	32	41	31	38	21	22	33	33	14	28	24	27	28	39
Q 24	39	41	38	38	40	39	38	46	39	64	87	37	26	28	27	14	22	20	18	17	15	13	14	18	32
25	33	16	28	106	90	64	79	126	59	65	75	43	44	44	34	14	48	42	17	24	25	32	85	48	52
26	83	66	42	71	96	111	124	141	157	68	54	58	92	75	207	175	53	32	52	152	105	62	62	34	91
27	71	92	85	107	134	82	103	117	132	113	99	99	29	32	38	148	163	120	160	82	111	119	136	81	102
28	75	109	154	117	95	89	114	104	89	111	67	88	100	71	66	41	32	32	26	26	33	31	39	36	73
29	48	35	41	56	42	74	46	72	87	59	65	55	72	72	70	52	26	21	16	17	16	12	23	45	47
30	73	81	50	52	40	46	52	44	37	34	27	48	44	53	47	30	36	90	135	107	101	58	66	114	61
31	95	110	105	56	28	43	41	39	86	88	61	28	17	30	20	33	30	28	22	40	18	41	32	40	47
Mean	79	82	76	84	84	84	94	85	74	68	61	71	67	60	67	61	62	63	69	64	65	65	73	75	72
5Q Mean	24	28	29	23	24	24	26	25	23	25	31	22	22	20	20	20	14	13	12	16	20	15	15	21	21
5D Mean	131	174	136	151	171	161	175	125	81	87	83	144	127	115	122	99	107	87	79	72	81	65	110	136	117

AL Index (Provisional Hourly mean values, unit nT) January 1994

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	-262	-338	-129	-222	-261	-290	-287	-112	-112	-374	-623	-552	-393	-138	-264	-325	-372	-294	-33	-59	-195	-158	-53	-43	-245
2	-109	-124	-188	-258	-153	-259	-301	-204	-150	-414	-291	-379	-626	-294	-51	-249	-402	-141	-201	-194	-465	-90	-81	-49	-236
3	-153	-113	-21	-17	-19	-30	-275	-378	-146	-55	-91	-347	-346	-167	-237	-458	-331	-200	-288	-398	-133	-36	-32	-50	-180
4	-32	-19	-36	-24	-189	-100	-51	-23	-62	-65	-59	-4	-19	-71	-49	-65	-35	-79	-48	-149	-97	-60	-47	-18	-58
Q 5	-9	-6	-10	-8	-11	-6	-7	-6	-2	-10	-9	-50	-77	-32	-54	-141	-87	-51	-26	-25	-87	-29	-57	-91	-37
6	-235	-217	-241	-163	-128	-69	-133	-164	-134	-210	-257	-345	-203	-170	-76	-431	-219	-68	-40	-86	-142	-152	-301	-23	-175
Q 7	-8	-9	-7	-4	-4	-5	-9	-6	-4	-7	-64	-133	-172	-82	-27	-42	-26	-58	-50	-164	-306	-53	-15	-17	-53
8	-16	-39	-72	-34	-69	-221	-144	-89	-77	-150	-21	-25	-15	-24	-151	-148	-84	-40	-32	-28	-78	-75	-41	-44	-72
Q 9	-4	0	-1	-6	-6	-11	-27	-22	-6	-7	-28	-103	-81	-8	-9	-9	-15	-64	-124	-75	-30	-15	-7	-1	-27
Q 10	-2	-1	-1	-1	-2	-4	-12	-1	-1	-1	-5	-10	-34	-6	-14	-31	-10	-2	-11	-26	-6	-5	-6	-4	-8
11	-1	-1	-1	-4	-3	-12	-174	-40	-19	-6	-5	-39	-109	-29	-20	-162	-960	-772	-302	-191	-153	-307	-225	-81	-151
D 12	-193	-155	-263	-116	-172	-147	-152	-96	-121	-341	-270	-230	-326	-317	-518	-582	-217	-207	-159	-28	-148	-365	-380	-161	-236
D 13	-119	-477	-261	-256	-116	-66	-101	-68	-49	-35	-118	-308	-648	-228	-100	-50	-524	-371	-248	-40	-68	-130	-294	-463	-214
D 14	-166	-157	-151	-123	-168	-174	-146	-238	-80	-43	-395	-546	-363	-490	-669	-226	-303	-135	-79	-242	-182	-57	-124	-306	-232
15	-196	-59	-313	-393	-262	-64	-47	-122	-32	-28	-12	-51	-135	-226	-71	-72	-66	-301	-485	-849	-540	-274	-148	-82	-201
16	-137	-54	-23	-228	-271	-101	-36	-49	-273	-94	-83	-184	-332	-59	-126	-215	-410	-300	-328	-161	-236	-78	-105	-164	-169
D 17	-440	-247	-269	-338	-192	-287	-165	-108	-27	-131	-185	-371	-240	-75	-121	-421	-95	-168	-434	-209	-134	-100	-206	-881	-223
18	-183	-34	-18	-40	-164	-198	-81	-72	-317	-261	-130	-202	-167	-185	-862	-906	-661	-191	-34	-87	-235	-181	-215	-94	-230
19	-186	-102	-202	-435	-236	-203	-421	-240	-170	-144	-147	-235	-302	-467	-106	-59	-80	-43	-498	-187	-89	-88	-269	-312	-218
20	-172	-24	-4	-14	-43	-161	-188	-17	-46	-84	-354	-206	-60	-181	-279	-200	-196	-124	-371	-231	-192	-100	-27	-42	-138
21	-84	-120	-89	-27	-106	-78	-13	-11	-27	-42	-45	-82	-64	-79	-50	-172	-193	-238	-84	-128	-336	-307	-274	-284	-122
22	-214	-178	-263	-91	-15	-29	-20	-44	-18	-26	-178	-290	-137	-8	-4	-10	-20	-93	-100	-26	-32	-48	-167	-94	-88
23	-67	1	4	-10	-3	-12	-4	-7	-22	-19	-24	-13	-64	-59	-24	-14	-46	-145	-17	-7	-166	-110	-72	-69	-40
Q 24	-43	-105	-8	-6	-7	-9	-2	-20	-49	-171	-35	-8	-10	-13	-14	-15	-16	-11	-11	-1	-3	-11	-12	-17	-25
25	-23	-10	-5	-19	-8	-6	-18	-13	-2	-3	-4	-7	-30	-12	-11	-14	-104	-25	-6	-4	-14	-36	-189	-45	-25
26	-58	-46	-5	0	-16	-144	-155	-292	-297	-27	-22	-83	-179	-285	-550	-291	-57	-97	-138	-380	-222	-107	-146	-111	-155
27	-168	-316	-163	-249	-213	-264	-182	-370	-328	-98	-197	-267	-43	-67	-416	-615	-480	-161	-236	-279	-144	-240	-406	-256	-257
28	-166	-280	-460	-210	-172	-133	-322	-278	-185	-489	-396	-192	-232	-102	-48	-62	-128	-206	-162	-138	-123	-59	-124	-94	-198
29	-10	-9	-10	-32	-80	-117	-116	-117	-103	-148	-239	-343	-242	-356	-215	-105	-84	-54	-145	-53	-50	-182	-15	-64	-120
30	-123	-126	-21	-8	-8	-30	-95	-139	-167	-45	-65	-197	-194	-132	-52	-117	-116	-461	-333	-131	-56	-179	-105	-108	-125
31	-125	-154	-23	-1	-2	-2	-13	-44	-161	-129	-37	-16	-19	-50	-204	-258	-161	-80	-58	-25	-22	-89	-251	-107	-85
Mean	-119	-113	-104	-107	-99	-104	-119	-109	-102	-117	-141	-187	-189	-142	-173	-208	-209	-167	-163	-148	-151	-120	-141	-118	-140
5Q Mean	-13	-24	-5	-5	-6	-7	-11	-11	-12	-39	-28	-60	-74	-28	-23	-47	-30	-37	-44	-58	-86	-22	-19	-26	-30
5D Mean	-236	-274	-214	-211	-181	-192	-170	-124	-77	-184	-318	-401	-394	-249	-334	-320	-302	-235	-190	-115	-145	-162	-211	-270	-229

AE Index (Provisional Hourly mean values, unit nT) 1994

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	382	516	265	323	389	454	565	242	188	493	704	800	566	254	376	439	471	427	103	90	253	188	93	79	361
	164	177	259	365	213	364	470	357	295	569	425	475	677	383	138	348	484	205	252	258	519	142	143	96	324
	242	162	69	51	48	63	356	485	239	111	154	438	468	262	290	516	432	289	422	506	279	79	59	86	254
Q	61	80	87	55	248	161	116	101	118	111	131	44	49	107	73	94	59	92	62	157	105	73	62	33	95
	22	26	41	27	34	26	28	23	16	27	25	72	100	43	72	180	107	65	44	40	105	43	75	128	57
	295	292	353	294	198	122	217	257	184	260	309	429	262	213	122	497	265	105	56	107	174	237	388	65	238
Q	36	45	38	32	33	47	28	24	28	89	152	201	110	48	61	38	69	59	193	357	73	32	42	78	
	42	72	109	82	131	289	217	141	118	184	53	41	32	47	176	150	95	55	47	41	93	93	65	65	102
Q	32	31	29	24	24	30	41	44	25	18	42	124	103	32	23	23	27	75	134	81	37	34	28	22	45
Q	19	19	22	18	19	22	34	26	30	17	24	24	49	21	40	49	23	17	24	42	21	21	20	16	26
	15	22	35	23	28	51	258	156	88	68	74	151	279	118	59	264	1141	987	552	401	334	529	500	319	269
D	340	290	380	225	365	340	281	211	198	457	350	345	416	422	690	722	298	299	223	89	227	441	540	316	353
D	264	605	390	421	287	187	241	171	152	103	177	412	794	388	167	114	591	478	376	143	163	197	450	683	331
D	325	331	240	277	368	295	270	351	147	83	494	640	453	612	880	337	485	189	134	355	280	146	218	409	347
	311	174	420	565	397	225	185	216	130	78	44	91	191	324	163	137	95	380	626	1024	660	543	286	192	311
	243	148	128	378	464	271	148	144	413	226	139	300	467	106	188	270	511	457	497	316	356	168	184	237	282
D	533	508	484	569	360	499	377	276	116	229	286	538	386	158	172	492	207	225	514	266	214	169	314	556	352
	316	134	95	111	257	285	160	145	427	407	229	309	253	244	1017	1076	829	405	163	165	320	276	290	161	386
	314	177	318	614	331	319	604	412	320	272	280	317	383	568	249	123	117	76	572	261	175	165	353	438	323
	272	90	69	46	133	258	333	102	118	143	396	290	109	220	366	257	267	166	473	294	295	216	74	98	212
	131	178	137	92	206	172	94	66	69	77	94	123	80	97	72	192	252	335	185	229	448	433	438	470	195
	438	338	382	185	99	112	71	80	55	72	226	335	181	74	56	42	54	131	156	65	71	99	286	218	159
	166	85	56	67	38	42	28	42	77	63	57	46	107	91	64	36	70	180	51	22	195	134	100	99	80
Q	84	148	47	44	48	48	41	67	88	235	123	46	37	41	42	29	39	32	30	18	19	25	27	37	58
	58	28	35	126	99	71	98	140	62	68	80	51	75	56	45	28	153	68	24	28	40	69	274	94	78
	142	113	48	71	114	256	279	433	455	96	77	143	273	361	757	467	112	129	190	532	328	171	210	146	246
	241	410	248	356	347	347	285	489	460	212	297	368	74	101	454	763	644	281	396	362	255	360	544	337	360
	243	390	615	327	268	222	436	382	275	601	464	281	333	174	115	103	160	239	189	164	157	91	165	132	272
	60	45	52	88	123	191	162	189	190	208	305	400	315	429	286	159	112	76	162	70	66	194	39	111	168
	197	209	72	60	49	77	148	183	205	80	92	247	240	186	101	148	153	552	468	240	158	238	172	223	187
	222	266	129	58	30	45	55	83	248	217	99	45	37	81	224	293	192	109	81	66	41	131	284	148	133
Mean	200	197	182	192	185	189	214	194	178	187	204	260	257	203	242	271	273	232	234	213	217	186	216	195	213
5Q Mean	38	53	35	29	31	31	38	37	36	65	60	83	98	49	45	68	46	51	58	74	107	39	36	49	52
5D Mean	368	450	351	363	353	355	346	250	160	273	402	547	523	366	457	420	410	323	270	188	227	228	323	408	348

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A0 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
D	-72	-80	3	-60	-66	-63	-5	8	-18	-126	-271	-151	-110	-11	-75	-104	-136	-81	18	-13	-68	-63	-6	-3	-65
	-27	-35	-58	-75	-46	-76	-66	-25	-2	-129	-78	-141	-287	-102	17	-74	-160	-88	-74	-64	-205	-19	-10	-1	-74
	-32	-32	12	7	4	1	-97	-135	-25	0	-14	-128	-112	-35	-91	-199	-115	-55	-77	-145	5	2	-3	-7	-53
	-2	20	6	3	-64	-19	6	26	-3	-10	5	16	4	-17	-12	-17	-4	-32	-17	-70	-43	-23	-16	-2	-11
Q	1	6	9	5	5	5	6	4	4	3	2	-14	-27	-11	-17	-50	-33	-18	-4	-5	-33	-7	-19	-27	-9
	-87	-71	-64	-16	-28	-7	-24	-35	-41	-79	-101	-130	-71	-63	-14	-182	-86	-16	-12	-32	-54	-33	-106	8	-56
Q	9	12	11	10	11	11	13	6	7	5	-20	-57	-71	-27	-3	-11	-6	-23	-20	-67	-126	-17	0	2	-14
	3	-3	-17	6	-3	-76	-35	-18	-58	4	-5	0	-1	-63	-72	-36	-13	-8	-7	-31	-28	0	-9	-12	-21
Q	10	14	12	5	5	3	-6	0	5	1	-7	-40	-30	6	1	1	-2	-26	-56	-33	-12	0	5	9	-5
Q	10	7	8	6	6	6	4	11	12	6	6	1	-9	3	4	-6	0	5	0	-4	3	4	3	2	3
	5	9	15	6	10	12	-45	37	23	27	31	36	29	28	8	-29	-389	-278	-26	8	12	-42	24	77	-16
D	12	-23	-10	-73	-4	10	22	-11	9	-21	-112	-95	-57	-118	-106	-173	-221	-67	-57	-47	15	-34	-144	-109	-3
D	13	11	-175	-66	-45	27	26	19	16	26	16	-29	-101	-251	-34	-16	6	-229	-132	-60	30	12	-30	-69	-122
D	14	-4	7	-31	15	15	-26	-11	-62	-6	-1	-148	-225	-136	-183	-229	-57	-61	-40	-12	-64	-42	15	-15	-101
	-40	26	-103	-110	-63	47	44	-14	-14	32	9	-5	-39	-63	9	-3	-18	-110	-171	-336	-209	-2	-5	12	-46
	-16	19	40	-39	-38	34	37	22	-66	18	-13	-34	-98	-6	-32	-79	-154	-71	-80	-4	-57	5	-12	-45	-28
D	17	-173	6	-26	-52	-12	-38	22	29	29	-16	-42	-101	-47	2	-34	-175	8	-55	-176	-75	-27	-16	-49	-102
	-24	32	29	14	-36	-55	-1	0	-103	-57	-16	-47	-40	-63	-353	-368	-246	10	46	-5	-75	-43	-69	-14	-62
	-28	-14	-44	-128	-71	-43	-119	-33	-9	-7	-6	-76	-111	-183	17	1	-21	-5	-211	-57	-1	-5	-92	-93	-56
	-36	19	29	8	22	-32	-21	33	12	-12	-156	-60	-5	-71	-96	-70	-62	-41	-133	-83	-44	7	9	5	-32
	-18	-31	-20	17	-3	8	33	21	6	-3	1	-20	-24	-30	-14	-76	-66	-71	8	-13	-112	-89	-54	-49	-25
	4	-10	-71	0	33	25	14	-3	8	9	-65	-123	-47	28	23	10	6	-27	-22	5	3	1	-24	13	-8
	14	43	32	22	15	7	9	12	15	11	3	9	-11	-13	6	3	-11	-55	7	2	-68	-42	-22	-20	0
	-1	-31	14	15	15	14	17	12	-5	-53	25	13	7	7	6	0	2	4	3	7	5	0	0	0	3
Q	4	2	10	42	40	28	29	56	28	30	35	17	6	15	11	0	-27	8	5	9	5	-1	-51	1	12
	12	9	17	35	39	-16	-15	-74	-70	19	15	-12	-42	-104	-171	-58	-1	-31	-42	-113	-58	-22	-41	-38	-31
	-48	-111	-38	-70	-39	-90	-39	-126	-97	7	-48	-83	-7	-17	-188	-232	-158	-20	-37	-98	-16	-60	-134	-87	-76
	-45	-85	-153	-46	-38	-21	-103	-86	-47	-188	-163	-51	-64	-14	8	-10	-47	-86	-67	-55	-44	-13	-42	-28	-62
	18	12	14	11	-18	-21	-34	-22	-7	-44	-86	-143	-83	-141	-71	-25	-28	-15	-63	-17	-16	-84	3	-9	-36
	-24	-22	13	21	15	7	-21	-47	-64	-5	-18	-73	-74	-38	-2	-42	-39	-184	-98	-11	21	-60	-19	2	-31
	-14	-22	40	27	13	20	12	-2	-36	-20	11	5	0	-9	-91	-112	-65	-25	-17	7	-1	-23	-109	-33	-18
Mean	-19	-15	-14	-11	-7	-9	-12	-12	-13	-24	-39	-57	-60	-40	-52	-72	-72	-50	-46	-41	-42	-26	-33	-21	-33
5Q Mean	5	1	10	8	8	7	6	6	4	-7	1	-19	-26	-4	-1	-13	-7	-11	-15	-20	-32	-4	-2	-2	-4
5D Mean	-52	-50	-38	-29	-5	-15	2	0	2	-47	-117	-127	-132	-66	-105	-110	-97	-73	-55	-21	-31	-47	-49	-66	-55

AU Index (Provisional Hourly mean values, unit nT) February 1994

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	43	43	61	47	33	33	39	46	45	59	46	30	19	23	17	32	25	26	22	26	35	28	27	31	35
	25	27	30	30	36	41	20	88	103	80	70	33	152	101	153	156	63	49	72	29	50	40	41	36	64
	29	32	38	37	47	51	77	68	84	105	122	50	81	101	84	54	103	76	52	95	69	72	50	47	68
	76	65	58	57	44	85	83	78	35	51	66	32	19	29	73	84	111	94	131	141	124	98	108	128	78
	145	120	98	75	79	81	89	95	134	123	106	244	134	225	346	363	345	245	225	242	275	279	267	191	189
D	137	263	290	201	157	118	101	134	106	146	133	283	228	286	309	231	73	84	107	57	147	89	177	166	167
D	126	99	135	157	170	230	133	138	93	128	175	94	153	250	136	193	173	212	169	150	123	126	142	165	153
D	95	195	175	205	154	144	219	242	197	110	92	101	117	99	81	66	214	176	258	195	145	137	121	162	154
	179	112	117	157	157	146	121	132	137	135	134	121	107	147	153	183	232	188	185	163	230	123	208	65	151
	132	111	96	220	179	119	79	97	121	155	132	133	88	190	147	213	163	243	222	262	205	177	131	65	153
	106	168	250	188	139	133	112	74	67	110	102	193	139	224	135	235	222	219	147	235	301	229	98	127	165
	220	207	125	181	167	138	116	137	209	103	132	108	157	198	175	187	128	147	123	122	143	204	177	184	158
	96	189	154	111	148	175	195	156	102	173	79	82	82	69	91	105	186	155	240	251	180	231	141	192	149
	197	147	107	127	155	147	199	138	156	100	67	41	66	66	51	195	201	107	176	205	187	238	176	156	142
	102	100	92	141	161	132	130	81	90	87	139	123	86	139	103	88	155	97	134	211	177	144	120	178	126
	205	104	127	272	201	107	79	66	96	83	79	93	93	95	124	119	101	80	110	73	66	82	89	81	109
	71	80	85	68	86	103	105	128	124	106	93	84	111	125	78	75	54	51	67	55	78	63	47	40	82
Q	45	47	61	63	64	62	55	62	63	94	81	77	77	49	26	25	26	25	27	33	32	36	49	97	53
	81	83	143	174	184	182	239	204	262	224	91	110	80	77	119	111	69	102	193	75	73	132	64	68	131
	139	149	160	68	99	103	106	126	133	109	78	86	38	42	45	50	77	55	146	123	131	84	54	43	94
D	46	85	97	109	114	82	87	174	188	784	667	471	398	375	121	427	292	183	188	135	216	-3	11	-87	215
D	158	153	79	197	190	198	229	199	187	166	194	188	206	239	189	89	65	44	48	45	43	122	54	71	140
	60	64	98	113	88	73	67	71	95	88	51	41	53	42	50	39	29	47	92	56	47	49	44	50	63
Q	38	28	30	27	26	33	25	19	40	26	24	31	31	23	29	17	21	29	23	25	21	26	27	25	27
	30	44	55	54	63	114	210	160	184	216	89	143	140	68	31	41	43	51	109	54	55	49	26	26	86
Q	34	73	67	45	38	39	26	27	27	24	36	38	35	47	47	33	56	44	42	33	27	25	22	22	38
Q	22	23	26	32	41	41	43	48	33	61	59	93	35	22	29	38	37	27	36	38	31	27	27	21	37
	29	36	33	28	29	30	34	39	63	75	46	40	26	33	43	42	31	24	33	45	37	55	89	119	44
Mean	95	101	103	113	108	105	107	108	113	132	113	112	105	120	106	124	117	102	120	113	116	105	92	88	109
5Q Mean	36	42	49	42	40	41	37	40	41	52	49	53	39	32	29	29	33	30	30	31	29	28	31	39	37
5D Mean	112	159	155	173	157	154	153	177	154	266	252	227	220	249	167	201	163	139	154	116	134	94	101	95	165

AL Index (Provisional Hourly mean values, unit nT) February 1994

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	-52	-30	-37	-28	-7	-11	-14	-21	-127	-263	-49	-12	-14	-132	-83	-43	-35	-25	-19	-25	-38	-9	-12	-8	-46
	2	-1	-1	-7	-44	-81	-106	-328	-92	-66	-340	-546	-476	-299	-482	-307	-80	-116	-490	-98	-14	-8	-10	-10	-167	
	3	-5	-4	-6	-16	-18	-90	-169	-45	-118	-169	-85	-18	-185	-474	-163	-107	-424	-77	-76	-395	-224	-48	-28	-65	-125
	4	-55	-79	-41	-37	-40	-132	-146	-70	-26	-64	-102	-66	-175	-329	-110	-407	-229	-118	-200	-596	-122	-136	-154	-144	
	5	-164	-186	-71	-1	-16	-50	-56	-121	-356	-315	-638	-786	-439	-631	-644	-633	-493	-439	-405	-272	-302	-397	-587	-349	-348
D	6	-447	-519	-453	-605	-463	-219	-151	-226	-236	-313	-873	-655	-629	-642	-1110	-1365	-1320	-916	-1206	-753	-440	-939	-292	-218	-625
D	7	-225	-120	-87	-879	-869	-282	-102	-139	-146	-393	-1009	-663	-576	-597	-1024	-676	-224	-193	-541	-602	-314	-49	-106	-333	-423
D	8	-805	-573	-380	-443	-393	-699	-584	-373	-248	-41	-96	-796	-761	-233	-67	-67	-589	-775	-645	-503	-474	-131	-168	-702	-439
	9	-409	-355	-201	-119	-248	-144	-190	-316	-471	-243	-338	-311	-310	-180	-458	-516	-621	-753	-958	-389	-150	-69	-588	-792	-380
	10	-494	-432	-316	-126	-288	-108	-52	-124	-433	-259	-315	-328	-351	-614	-327	-499	-555	-591	-234	-425	-346	-232	-354	-631	-351
	11	-391	-171	-280	-544	-236	-139	-210	-24	-122	-436	-695	-461	-54	-662	-600	-590	-447	-544	-423	-414	-440	-295	-453	-293	-372
	12	-209	-278	-214	-258	-222	-219	-209	-205	-114	-94	-229	-379	-919	-673	-483	-287	-119	-193	-22	-134	-553	-529	-229	-343	-296
	13	-411	-314	-214	-118	-116	-193	-234	-211	-99	-499	-220	-227	-274	-95	-123	-306	-886	-575	-718	-517	-318	-327	-213	-149	-307
	14	-359	-277	-317	-272	-61	-167	-310	-180	-188	-129	-213	-37	-148	-310	-182	-770	-490	-224	-379	-478	-232	-451	-430	-121	-280
	15	-62	-108	-272	-229	-67	-58	-85	-61	-103	-188	-119	-204	-112	-615	-631	-211	-481	-280	-154	-383	-329	-119	-149	-336	-223
	16	-457	-333	-351	-341	-69	-188	-39	-28	-62	-200	-58	-154	-443	-446	-315	-257	-186	-97	-112	-54	-120	-141	-252	-285	-208
	17	-94	-12	-69	-118	-42	-67	-125	-193	-178	-90	-61	-117	-268	-219	-159	-134	-169	-111	-53	-126	-247	-48	-49	-32	-116
Q	18	-9	-4	-9	-11	-50	-51	-32	-37	-52	-59	-251	-87	-102	-25	-9	-10	-3	-17	0	2	-2	-32	-77	-39	
	19	-239	-98	-178	-274	-205	-171	-174	-400	-370	-23	-57	-379	-423	-302	-225	-130	-162	-174	-538	-128	-43	-119	-134	-173	-213
	20	-268	-470	-303	-299	-330	-94	-36	-150	-177	-77	-54	-220	-131	-26	-64	-278	-147	-208	-247	-374	-126	-77	-71	-16	-177
D	21	-26	-101	-74	-28	-15	-3	-2	-58	-227	-1370	-965	-428	-295	-496	-880	-1383	-463	-907	-212	-59	-491	-869	-1160	-1070	-483
D	22	-533	-626	-748	-639	-885	-498	-328	-399	-315	-253	-155	-415	-757	-952	-653	-191	-78	-77	-183	-126	-13	-124	-82	-193	-384
	23	-141	-174	-300	-218	-256	-63	-184	-270	-231	-339	-163	-144	-180	-107	-48	-34	-64	-156	-347	-321	-37	-78	-171	-84	-171
Q	24	-36	-16	-8	-9	-8	-13	-45	-22	-18	-20	-24	-100	-131	-74	-69	-119	-62	-56	-28	-12	-16	-37	-6	-11	-39
	25	-16	-26	-42	-78	-88	-77	-389	-341	-308	-271	-40	-116	-143	-95	-78	-133	-114	-14	-48	-185	-45	-44	-38	-37	-115
Q	26	-22	-77	-222	-53	-27	-20	-34	-39	-42	-45	-98	-40	-129	-323	-139	-125	-91	-5	-6	-15	-26	-9	-10	-11	-67
Q	27	-13	-13	-9	-10	-71	-59	-19	-19	-92	-165	-189	-412	-125	-34	-37	-106	-87	-76	-47	-21	-23	-22	-17	-15	-70
	28	-9	-7	-4	-5	-4	-8	-19	-16	-300	-188	-51	-95	-133	-31	-23	-16	-39	-13	-21	-274	-188	-39	-291	-540	-97
Mean		-212	-193	-185	-205	-183	-139	-144	-157	-187	-233	-266	-294	-306	-337	-335	-335	-315	-279	-294	-260	-219	-190	-216	-251	-239
5Q Mean		-26	-28	-57	-22	-32	-30	-28	-27	-66	-110	-122	-130	-100	-117	-67	-80	-57	-33	-23	-14	-20	-15	-15	-24	-52
5D Mean		-407	-387	-348	-518	-525	-340	-233	-239	-234	-474	-619	-591	-603	-584	-746	-736	-534	-573	-557	-408	-346	-422	-361	-503	-470

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AE Index (Provisional Hourly mean values, unit nf)

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	96	73	99	76	40	45	54	68	172	323	96	42	34	156	102	76	60	51	42	52	75	39	40	40	81
	2	26	28	33	37	81	122	127	417	195	148	411	581	629	400	637	465	144	167	564	128	65	49	52	47	231
	3	35	37	46	53	66	142	248	115	203	276	208	69	267	576	248	162	527	154	129	492	294	121	79	113	194
	4	132	145	100	94	85	218	230	149	63	78	132	136	86	205	402	194	520	324	251	343	721	222	245	283	223
	5	309	306	170	77	96	133	146	217	492	439	746	1031	574	858	992	997	839	685	631	515	578	676	855	540	538
D	6	585	782	743	806	621	339	254	361	343	460	1006	939	858	930	1421	1598	1394	1001	1314	810	587	1028	469	385	793
D	7	352	220	222	1036	1039	513	237	278	240	522	1186	758	731	849	1162	871	398	407	711	752	438	176	249	498	577
D	8	901	769	556	649	547	844	804	615	446	152	190	898	879	333	150	134	805	952	905	699	620	269	290	865	595
	9	589	467	318	277	406	291	313	449	609	379	473	433	419	327	613	700	855	942	1144	554	381	192	796	858	533
	10	626	543	413	347	468	227	132	222	555	415	449	462	439	806	475	713	719	835	457	688	553	410	486	696	506
	11	498	339	531	733	376	273	324	100	190	547	799	655	194	888	737	827	671	765	572	649	742	525	552	420	538
	12	430	485	340	440	390	358	326	343	324	198	363	488	1078	873	659	476	248	342	146	258	697	734	407	528	455
	13	508	504	369	230	265	369	431	369	202	673	300	310	357	165	215	412	1073	731	958	769	499	559	355	341	457
	14	557	424	425	399	216	315	510	319	345	230	281	79	215	378	234	967	693	333	556	685	420	690	606	278	423
	15	165	209	364	370	228	191	217	143	195	277	258	329	199	755	735	301	638	378	289	596	506	264	270	515	350
	16	662	438	479	613	271	296	118	96	160	285	139	248	537	542	440	377	288	178	224	127	188	223	341	366	318
	17	166	93	156	187	129	171	231	323	304	197	156	202	379	344	238	211	223	163	121	182	326	112	98	73	199
Q	18	55	52	71	75	115	114	88	100	116	154	334	165	180	75	36	34	36	28	45	32	29	39	81	175	93
	19	320	182	321	448	389	353	414	605	634	247	149	489	504	379	346	242	232	278	733	204	116	252	198	241	345
	20	407	620	464	368	430	198	144	277	311	188	133	307	171	69	111	328	224	264	395	499	258	162	126	60	271
D	21	72	187	172	138	130	85	89	234	417	2155	1633	900	694	872	1002	1811	757	1092	402	195	708	866	1171	981	698
D	22	693	780	827	836	1076	697	558	599	503	420	349	603	964	1193	843	281	144	122	233	172	57	246	136	264	525
	23	201	239	399	333	345	137	252	343	327	428	215	186	234	149	100	73	94	204	441	378	86	128	216	134	235
Q	24	75	45	39	37	35	47	71	42	59	48	49	132	163	98	99	136	84	86	52	38	39	64	35	37	67
	25	47	71	98	132	151	192	600	503	493	488	130	260	284	164	110	175	159	66	158	241	100	93	65	65	202
Q	26	57	151	289	99	65	60	61	68	70	70	136	79	165	371	186	158	148	50	49	49	54	35	36	34	106
Q	27	36	37	36	43	113	100	63	68	126	228	249	506	161	57	66	145	125	104	84	60	55	50	45	37	108
	28	40	44	39	34	34	39	53	56	365	264	99	136	160	65	66	58	71	38	55	320	226	95	381	660	142
Mean		308	295	289	320	293	245	253	267	302	367	381	407	412	459	443	461	434	383	416	374	336	297	310	340	350
5Q Mean		63	71	106	66	73	73	67	69	108	164	172	184	140	151	97	109	90	63	54	46	50	45	47	64	91
5D Mean		520	547	504	693	682	495	388	417	389	741	872	819	825	835	915	939	699	714	713	525	482	517	463	598	637

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A0 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	6	11	9	12	11	12	12	40	-101	-1	8	2	-54	-32	-5	-4	0	0	0	-1	9	7	10	-5
	2	11	12	14	11	-4	-19	-42	-119	5	6	-134	-255	-161	-98	-163	-74	-8	-32	-208	-34	17	15	15	12
	3	11	13	15	10	13	-19	-45	11	-16	-31	18	15	-51	-185	-39	-25	-159	0	-11	-149	-76	12	11	-8
	4	10	-6	8	9	1	-23	-31	3	4	12	1	-34	-23	-72	-127	-12	-147	-66	6	-28	-235	-11	-13	-32
	5	-8	-32	13	36	31	15	15	-12	-110	-95	-265	-270	-151	-202	-148	-134	-73	-96	-89	-14	-13	-58	-159	-78
D	6	-154	-127	-80	-201	-152	-50	-24	-45	-64	-82	-369	-185	-199	-177	-399	-566	-622	-415	-549	-347	-146	-424	-57	-25
D	7	-48	-10	24	-359	-348	-25	15	0	-26	-131	-416	-284	-210	-173	-443	-240	-25	9	-185	-225	-95	37	18	-83
D	8	-354	-188	-101	-118	-118	-276	-181	-65	-25	34	-1	-346	-321	-66	7	0	-186	-298	-192	-153	-163	2	-23	-268
	9	-114	-121	-41	18	-44	1	-34	-91	-166	-53	-101	-94	-100	-16	-152	-165	-193	-281	-385	-112	39	27	-189	-363
	10	-180	-159	-109	46	-53	5	12	-13	-155	-51	-91	-97	-130	-211	-89	-142	-195	-173	-5	-80	-69	-27	-110	-282
	11	-141	-1	-14	-177	-47	-2	-48	24	-26	-162	-295	-133	42	-218	-231	-176	-111	-161	-137	-88	-69	-32	-177	-82
	12	5	-34	-43	-38	-27	-39	-46	-33	47	4	-48	-135	-380	-237	-153	-49	4	-22	50	-5	-204	-162	-25	-79
	13	-157	-61	-29	-3	15	-8	-19	-27	2	-162	-69	-71	-95	-12	-16	-99	-349	-209	-238	-131	-68	-47	-35	21
	14	-80	-64	-104	-71	46	-9	-55	-20	-16	-14	-72	2	-40	-121	-64	-287	-144	-57	-101	-136	-21	-105	-126	17
	15	19	-3	-89	-43	47	36	22	10	-6	-50	10	-40	-12	-237	-263	-60	-162	-90	-9	-85	-75	12	-14	-78
	16	-125	-113	-111	-34	65	-39	19	18	16	-58	10	-30	-174	-174	-94	-68	-42	-8	-1	9	-26	-28	-80	-101
	17	-11	33	8	-24	21	17	-9	-31	-26	8	15	-15	-77	-46	-40	-28	-57	-29	6	-35	-84	7	0	4
Q	18	17	21	26	25	6	5	11	12	5	17	-84	-4	-11	11	7	7	8	11	4	17	17	16	8	9
	19	-78	-7	-17	-49	-10	5	32	-97	-53	100	17	-133	-170	-111	-52	-9	-46	-35	-171	-26	15	6	-34	-51
	20	-64	-159	-70	-114	-115	4	34	-11	-21	15	12	-66	-46	8	-8	-113	-34	-76	-49	-124	2	3	-7	13
D	21	9	-7	11	40	49	38	42	57	-19	-292	-148	21	51	-60	-378	-477	-85	-361	-12	37	-137	-436	-574	-133
D	22	-186	-235	-333	-220	-346	-149	-49	-99	-63	-43	19	-113	-274	-355	-231	-50	-6	-15	-67	-40	14	0	-13	-60
	23	-40	-54	-100	-52	-83	5	-57	-99	-67	-124	-55	-50	-62	-31	1	2	-16	-53	-126	-131	5	-14	-62	-16
Q	24	0	5	10	8	8	9	-9	-1	10	3	0	-33	-49	-25	-19	-50	-20	-13	-2	5	2	-5	10	6
	25	6	8	6	-11	-12	18	-88	-90	-61	-27	24	13	-1	-13	-22	-45	-35	17	30	-65	4	2	-5	-4
Q	26	6	-1	-77	-3	4	8	-3	-5	-7	-10	-30	0	-46	-137	-45	-45	-17	19	17	8	0	7	6	5
Q	27	3	4	7	10	-15	-8	12	13	-29	-51	-64	-158	-44	-5	-3	-32	-24	-24	-5	8	3	2	4	2
	28	9	13	13	11	12	10	6	10	-117	-55	-2	-26	-53	0	9	13	-4	5	5	-114	-74	7	-100	-209
Mean		-58	-45	-41	-45	-37	-17	-18	-24	-36	-49	-75	-89	-99	-107	-113	-104	-98	-87	-86	-72	-51	-42	-61	-81
5Q Mean		4	7	-4	9	3	5	4	6	-12	-28	-35	-37	-29	-42	-18	-25	-11	-1	2	7	4	5	7	6
5D Mean		-146	-113	-95	-171	-183	-92	-39	-30	-39	-102	-183	-181	-190	-166	-288	-266	-184	-216	-201	-145	-105	-164	-129	-202

Date	AU Index (Provisional Hourly mean values, unit nT)												1994												
	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	68	58	41	26	20	56	126	65	99	121	50	27	25	15	14	24	29	26	22	29	44	41	32	85	48
2	110	122	59	34	22	45	43	81	80	47	67	106	87	66	62	98	104	62	38	42	119	139	173	276	87
3	115	137	112	205	312	239	218	269	308	233	229	121	48	22	30	29	20	16	27	32	19	21	26	20	117
Q	14	12	14	12	14	13	15	28	11	8	9	17	7	9	8	13	13	16	14	14	12	13	13	11	13
Q	19	19	20	28	18	20	15	18	19	15	12	10	9	17	12	12	13	16	36	90	101	102	168	178	40
6	108	97	125	85	101	107	62	82	164	86	63	40	18	20	18	34	21	30	73	220	153	160	223	168	94
7	111	105	130	147	224	267	367	347	233	43	180	117	126	120	251	294	152	143	251	31	-4	-29	24	136	157
D	158	147	179	179	266	343	226	133	132	131	154	145	186	222	210	174	249	182	204	187	190	167	150	133	185
D	146	193	137	223	276	213	189	232	160	153	178	116	174	288	163	191	203	252	200	194	229	213	150	222	196
D	118	118	149	132	167	138	170	215	134	239	234	140	163	147	253	234	220	188	225	195	186	214	133	149	178
11	198	127	108	94	128	194	181	155	180	228	166	200	134	183	270	216	192	177	144	157	190	199	172	138	172
12	143	167	194	170	126	165	252	203	126	148	148	98	96	224	169	93	56	140	163	182	106	99	151	172	150
13	187	232	126	195	130	144	97	68	87	114	226	133	56	55	62	55	37	53	74	111	141	116	191	182	120
14	220	136	131	207	107	76	105	166	144	93	136	86	109	129	174	285	195	212	237	147	216	152	184	157	158
D	152	209	165	255	219	290	185	180	150	232	147	209	190	286	155	153	238	204	240	227	168	140	117	90	192
16	94	114	159	130	78	103	129	146	121	107	95	94	100	72	110	100	220	177	117	143	140	136	79	149	121
17	144	108	116	180	146	143	123	121	180	141	181	113	96	135	118	215	192	302	277	267	194	157	115	56	159
18	82	82	151	137	69	103	124	107	85	48	58	57	111	85	68	72	52	41	30	24	26	32	52	141	77
19	86	85	152	144	101	82	116	104	34	41	131	125	45	46	34	51	103	102	106	82	58	53	65	100	85
20	73	76	79	95	100	74	50	96	88	106	87	81	74	71	91	44	94	109	153	224	193	151	154	131	104
21	76	40	45	127	219	182	198	173	172	138	158	66	107	96	93	259	217	192	142	253	203	130	86	79	144
22	140	121	75	76	93	91	56	53	48	94	62	185	122	186	76	88	44	43	39	63	73	58	46	35	80
23	78	125	102	108	176	199	154	115	55	62	152	152	140	161	127	80	115	80	68	55	74	60	42	51	105
24	40	126	132	137	82	46	46	20	58	166	149	91	148	166	68	66	52	29	29	47	82	78	70	58	83
25	71	71	83	33	20	23	52	56	47	138	105	81	33	21	102	240	229	214	161	156	134	91	38	38	93
Q	64	48	53	26	22	73	61	46	47	137	98	61	44	24	30	32	33	41	27	35	44	24	22	17	46
27	17	38	36	42	44	36	44	54	51	48	61	72	84	64	63	34	40	53	67	88	88	142	184	69	63
28	48	31	28	46	56	111	89	99	65	53	49	84	88	91	124	158	225	150	87	90	83	64	70	61	85
Q	37	49	77	46	27	41	56	83	51	27	44	22	19	16	22	23	22	22	36	27	26	20	27	23	35
30	24	20	32	26	26	38	40	35	24	41	114	111	185	124	139	81	56	150	227	293	241	148	53	83	96
Q	90	73	63	53	53	36	23	32	41	102	64	45	48	43	21	19	22	31	27	29	25	26	27	22	42
Mean	97	99	99	109	111	119	116	115	103	107	116	95	92	103	101	111	111	111	114	120	114	100	97	104	107
5Q Mean	44	40	45	33	26	36	34	41	33	57	45	31	25	21	18	19	20	25	28	39	41	37	51	50	35
5D Mean	137	154	152	187	230	250	227	221	161	159	178	145	167	212	206	209	212	193	224	166	153	141	114	146	181

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March

1994

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	-140	-79	-75	-48	-50	-49	-301	-222	-176	-84	-51	-118	-140	-25	-26	-35	-139	-137	-54	-29	-44	-83	-35	-310	-102
2	-545	-250	-53	-42	-32	-21	-41	-102	-81	-20	-120	-385	-289	-355	-279	-272	-320	-167	-41	-46	-289	-483	-595	-627	-225
3	-185	-243	-252	-363	-439	-332	-526	-738	-733	-718	-508	-383	-315	-149	-121	-99	-97	-76	-51	-24	-25	-32	-28	-25	-269
Q 4	-23	-17	-12	-28	-30	-25	-28	-24	-29	-28	-25	-19	-35	-33	-27	-26	-26	-27	-26	-20	-20	-23	-25	-26	-25
Q 5	-26	-12	-8	-3	1	2	-2	-4	2	-2	-13	-19	-14	-39	-18	-17	-15	-12	-55	-216	-182	-107	-475	-172	-58
6	-47	-56	-133	-91	-120	-190	-80	-98	-309	-175	-72	-39	-7	-9	-18	-16	-12	-32	-120	-355	-254	-215	-109	-100	-111
7	-347	-211	-169	-96	-100	-227	-178	-83	-111	-644	-294	-111	-296	-269	-571	-622	-1219	-794	-808	-901	-686	-938	-468	-133	-428
D 8	-163	-205	-560	-317	-302	-457	-501	-186	-676	-508	-302	-365	-461	-832	-764	-386	-545	-340	-564	-201	-358	-326	-245	-439	-417
D 9	-176	-463	-753	-507	-293	-177	-298	-608	-357	-173	-523	-706	-618	-515	-455	-528	-450	-465	-419	-402	-436	-504	-291	-450	-440
D 10	-269	-155	-271	-258	-358	-210	-214	-606	-93	-568	-325	-539	-483	-556	-585	-672	-421	-139	-431	-487	-596	-481	-856	-463	-418
11	-242	-306	-213	-262	-599	-452	-232	-370	-541	-253	-372	-581	-702	-472	-508	-633	-362	-336	-167	-390	-273	-339	-454	-525	-399
12	-395	-283	-372	-240	-221	-381	-581	-299	-180	-632	-314	-405	-430	-651	-334	-163	-147	-459	-323	-445	-257	-118	-239	-602	-353
13	-451	-391	-676	-442	-202	-128	-102	-181	-164	-233	-257	-304	-114	-64	-142	-148	-61	-86	-112	-113	-174	-208	-577	-558	-245
14	-358	-337	-192	-443	-361	-133	-115	-301	-319	-153	-333	-388	-404	-470	-547	-544	-298	-121	-438	-197	-459	-338	-302	-259	-325
D 15	-329	-443	-529	-447	-202	-360	-282	-241	-380	-476	-392	-514	-474	-817	-314	-282	-426	-584	-467	-284	-223	-229	-331	-110	-381
16	-237	-349	-309	-265	-175	-161	-224	-264	-133	-106	-195	-261	-203	-153	-610	-198	-418	-435	-168	-330	-340	-160	-227	-360	-262
17	-479	-204	-193	-386	-537	-448	-194	-286	-577	-528	-409	-132	-239	-603	-356	-380	-318	-463	-496	-298	-61	-132	-298	-76	-337
18	-115	-91	-524	-646	-288	-101	-331	-337	-105	-25	-65	-111	-386	-271	-148	-199	-189	-225	-49	-32	-32	-61	-81	-438	-202
19	-657	-553	-165	-198	-237	-242	-333	-264	-62	-30	-199	-478	-154	-87	-52	-179	-213	-181	-231	-40	-62	-143	-142	-288	-216
20	-220	-111	-44	-145	-149	-81	-24	-127	-116	-89	-67	-175	-140	-132	-81	-80	-305	-268	-301	-313	-152	-301	-90	-45	-148
21	-21	-17	-14	-123	-414	-369	-243	-134	-209	-281	-329	-92	-124	-207	-293	-497	-393	-293	-101	-234	-352	-299	-154	-219	-225
22	-581	-464	-157	-44	-89	-142	-59	-45	-39	-44	-19	-203	-601	-758	-325	-143	-91	-70	-33	-57	-70	-176	-82	-18	-180
23	-141	-350	-310	-259	-206	-444	-215	-100	-30	-77	-285	-578	-375	-510	-369	-178	-308	-242	-66	-62	-87	-131	-49	-77	-227
24	-49	-172	-262	-172	-25	-23	-41	-15	-21	-365	-645	-229	-457	-570	-207	-178	-224	-91	-24	-57	-54	-131	-139	-149	-179
25	-98	-329	-119	-21	-28	-25	-87	-144	-64	-283	-142	-93	-22	-32	-299	-545	-719	-568	-230	-243	-253	-190	-26	-33	-191
Q 26	-96	-109	-108	-57	-19	-172	-226	-66	-27	-69	-267	-87	-23	-16	-22	-57	-42	-12	-32	-25	-32	-28	-22	-29	-69
27	-34	-112	-106	-103	-40	-42	-44	-171	-35	-56	-73	-29	-204	-107	-34	-16	-21	-118	-147	-93	-41	-304	-438	-58	-101
28	-39	-36	-38	-24	-114	-208	-203	-113	-16	-7	-18	-68	-298	-231	-514	-413	-236	-72	-43	-46	-102	-28	-134	-42	-127
Q 29	-29	-39	-42	-38	-15	-20	-21	-95	-26	-37	-31	-39	-23	-18	-13	-19	-18	-28	-25	-15	-10	-10	-25	-24	-27
30	-24	-21	-22	-44	-44	-45	-44	-37	-40	-29	-309	-556	-465	-401	-430	-169	-26	-381	-542	-275	-76	-319	-106	-109	-188
Q 31	-122	-106	-40	-31	-83	-82	-62	-10	-10	-53	-151	-52	-40	-23	-14	-18	-18	-13	-16	-48	-43	-6	-8	-14	-44
Mean	-214	-210	-216	-198	-186	-185	-188	-202	-180	-217	-229	-259	-275	-302	-273	-248	-260	-233	-212	-202	-194	-220	-227	-218	-223
5Q Mean	-59	-56	-42	-31	-29	-59	-67	-39	-18	-37	-97	-43	-27	-25	-18	-27	-23	-18	-30	-64	-57	-34	-111	-53	-44
5D Mean	-256	-295	-456	-325	-251	-286	-294	-344	-323	-473	-367	-447	-466	-597	-537	-498	-612	-464	-537	-455	-459	-495	-438	-319	-416

AE Index (Provisional Hourly mean values, unit nT) March 1994

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	210	138	117	74	71	106	428	288	275	206	102	146	166	41	41	59	168	164	77	59	88	125	68	396	150
2	656	373	114	77	55	66	85	184	112	67	188	492	376	422	341	371	424	229	80	89	409	623	770	904	313
3	301	381	366	570	751	744	1007	1042	951	738	505	364	172	152	129	118	94	94	78	56	45	54	54	47	387
Q	39	30	27	41	45	39	45	52	41	38	35	37	43	43	36	40	40	44	40	34	33	37	39	38	39
Q	46	32	28	32	16	17	18	23	16	17	26	29	24	57	31	30	28	28	92	307	284	210	644	351	99
6	156	155	259	178	221	298	143	182	474	262	136	80	25	30	37	51	34	63	193	576	409	377	334	270	206
D	459	317	300	244	324	496	547	430	345	687	475	228	423	390	822	916	1372	937	1060	933	682	909	494	270	586
D	322	353	741	497	569	801	728	319	808	640	457	511	649	1056	975	561	795	523	769	389	549	495	396	574	603
D	323	658	891	731	570	391	488	841	518	327	701	822	793	805	619	719	654	718	620	597	667	719	443	674	637
D	389	274	421	391	526	349	384	823	228	808	560	679	646	704	838	907	642	327	657	683	784	697	990	614	597
11	442	434	323	356	728	647	413	526	722	482	538	782	837	656	778	849	555	514	312	548	465	540	627	664	572
12	540	451	566	411	349	547	833	502	306	781	463	503	527	875	504	257	203	600	486	629	364	218	392	776	503
13	639	624	803	639	333	272	199	250	251	349	485	438	170	121	205	204	99	139	187	225	316	325	769	742	366
14	579	474	324	652	469	210	221	467	464	246	469	476	514	600	722	830	494	334	676	344	676	491	488	417	485
D	483	653	695	703	422	650	467	421	530	709	540	724	664	1104	469	436	665	790	708	512	393	371	449	201	573
16	332	464	469	396	254	265	353	411	255	214	291	355	304	226	720	299	639	614	286	474	481	297	308	510	384
17	625	314	311	566	684	592	317	408	757	669	591	246	336	739	474	595	511	766	774	565	256	291	415	133	497
18	198	174	677	784	357	204	455	444	191	74	124	168	497	357	216	272	242	267	80	56	59	94	134	580	280
19	744	640	318	342	339	324	449	369	97	72	331	605	200	134	87	231	316	284	338	122	121	198	208	389	302
20	294	189	125	241	250	156	74	224	205	196	154	257	215	204	173	124	399	377	454	538	346	454	246	177	253
21	98	58	60	251	634	552	442	308	381	420	487	159	231	304	387	757	610	486	244	489	556	430	242	300	370
22	722	586	234	121	183	234	116	99	87	139	82	339	724	944	402	232	136	115	72	122	144	235	129	55	260
23	221	477	413	368	383	644	369	216	86	140	438	731	516	672	497	259	424	323	136	118	162	193	92	129	334
24	90	299	396	310	108	70	88	35	80	531	795	320	606	736	275	244	276	122	54	105	138	211	211	208	263
25	170	401	204	56	49	49	139	201	112	422	248	174	56	53	402	786	949	783	392	401	389	282	64	72	286
Q	162	158	162	84	42	246	287	113	75	206	366	149	68	40	53	90	75	55	60	61	77	53	45	46	116
27	52	151	143	146	84	79	89	225	87	105	134	102	289	173	99	50	61	172	215	182	130	447	624	129	165
28	89	68	66	70	170	319	292	213	83	62	67	153	387	323	638	571	461	223	130	137	186	92	206	105	213
Q	67	89	120	85	43	62	78	179	79	65	75	62	43	35	35	43	40	51	62	42	36	31	54	48	63
30	49	43	55	70	71	83	84	73	65	70	424	667	651	526	570	250	83	532	770	569	318	468	161	194	285
Q	214	181	105	86	137	119	86	43	52	156	215	98	89	67	35	37	40	44	44	77	69	33	36	37	88
Mean	313	310	317	308	297	305	305	318	284	326	346	356	368	406	375	361	372	345	327	323	310	322	326	324	331
5Q Mean	105	98	88	65	56	96	102	82	52	96	143	75	53	48	38	48	44	44	59	104	99	72	163	104	80
5D Mean	395	451	609	513	482	537	522	566	485	634	546	592	635	811	744	707	825	659	762	622	615	638	554	466	599

AO Index (Provisional Hourly mean values, unit nT)

March 1994

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	-36	-10	-16	-10	-14	3	-86	-77	-38	18	0	-44	-56	-4	-5	-5	-54	-54	-15	0	0	-20	-1	-112	-26
2	-216	-63	2	-4	-4	11	1	-10	24	13	-26	-138	-99	-143	-107	-86	-107	-52	-1	-1	-84	-171	-210	-175	-68
3	-34	-52	-69	-78	-63	-45	-153	-233	-212	-241	-138	-129	-132	-62	-44	-34	-37	-29	-11	3	-3	-5	0	-2	-75
Q 4	-4	-2	0	-7	-8	-5	2	-8	-9	-7	0	-13	-11	-8	-6	-6	-5	-5	-5	-3	-3	-4	-5	-7	-5
Q 5	-3	3	5	12	10	11	5	6	10	6	0	-4	-2	-10	-2	-2	0	2	-9	-62	-39	-2	-153	2	-8
6	29	19	-3	-2	-9	-41	-8	-7	-71	-43	-3	0	5	5	0	8	3	-1	-23	-66	-49	-27	56	33	-8
7	-117	-52	-18	25	61	19	94	132	61	-299	-56	2	-84	-73	-159	-163	-533	-324	-278	-434	-345	-483	-221	1	-135
D 8	-2	-28	-190	-68	-18	-56	-136	-26	-271	-188	-73	-109	-137	-304	-276	-105	-147	-78	-179	-7	-83	-78	-47	-153	-115
D 9	-14	-134	-307	-141	-8	17	-54	-187	-97	-9	-171	-294	-221	-113	-146	-168	-122	-106	-108	-103	-102	-144	-70	-113	-121
D 10	-74	-17	-60	-62	-95	-35	-21	-195	20	-164	-45	-199	-159	-204	-165	-218	-100	23	-102	-145	-204	-132	-360	-156	-119
11	-21	-88	-52	-83	-234	-128	-25	-106	-179	-12	-102	-189	-283	-143	-118	-208	-84	-78	-11	-116	-41	-69	-140	-193	-113
12	-125	-57	-88	-34	-47	-107	-163	-47	-26	-241	-82	-152	-166	-212	-81	-34	-45	-159	-79	-131	-74	-8	-43	-214	-101
13	-131	-79	-274	-123	-35	8	-2	-56	-37	-58	-15	-84	-28	-4	-39	-46	-12	-16	-18	-1	-16	-45	-192	-187	-62
14	-69	-99	-30	-117	-126	-27	-4	-66	-87	-29	-97	-150	-147	-170	-186	-128	-50	45	-100	-24	-120	-91	-58	-50	-83
D 15	-88	-117	-181	-95	8	-34	-48	-29	-114	-121	-121	-152	-141	-265	-79	-63	-93	-93	-189	-112	-28	-44	-106	-9	-94
16	-70	-116	-74	-66	-47	-27	-46	-58	-5	1	-49	-82	-51	-39	-249	-48	-98	-128	-25	-92	-99	-12	-73	-104	-69
17	-166	-47	-38	-102	-194	-151	-35	-82	-197	-193	-113	-8	-71	-233	-118	-82	-62	-79	-109	-15	65	12	-91	-10	-88
18	-16	-4	-186	-253	-109	1	-102	-114	-9	11	-3	-26	-137	-92	-39	-63	-68	-91	-9	-3	-2	-14	-13	-148	-62
19	-285	-233	-6	-26	-67	-79	-107	-78	-13	5	-33	-175	-53	-19	-9	-63	-54	-39	-62	20	-2	-44	-37	-93	-65
20	-73	-17	16	-23	-23	-3	12	-15	-14	8	9	-46	-31	-29	4	-17	-105	-79	-73	-43	20	-74	31	42	-21
21	27	10	15	1	-96	-92	-22	19	-18	-71	-85	-12	-8	-55	-99	-119	-87	-50	20	9	-73	-83	-33	-69	-40
22	-219	-170	-40	16	2	-25	-1	3	4	24	21	-33	-239	-285	-123	-27	-23	-13	3	2	1	-58	-17	8	-49
23	-31	-112	-103	-75	-14	-121	-30	7	12	-7	-66	-212	-117	-174	-120	-48	-96	-80	1	-3	-6	-34	-3	-12	-60
24	-4	-22	-64	-17	28	11	2	2	17	-99	-247	-68	-153	-201	-68	-55	-85	-30	2	-5	13	-25	-34	-44	-47
25	-13	-128	-17	6	-3	0	-16	-43	-8	-72	-17	-5	5	-5	-97	-152	-245	-176	-34	-43	-43	-59	-49	5	-48
Q 26	-15	-29	-26	-15	1	-49	-82	-9	10	33	-83	-12	9	4	4	-12	-4	14	-2	4	5	-1	0	-5	-11
27	-8	-36	-34	-30	2	-2	0	-57	7	-4	-5	20	-59	-21	14	8	9	-32	-39	-2	23	-80	-126	5	-18
28	4	-2	-4	10	-28	-47	-56	-6	24	22	14	7	-104	-69	-194	-126	-5	38	21	21	-9	17	-31	9	-20
Q 29	3	5	17	3	5	10	16	-5	12	-4	6	-8	-1	0	3	1	1	-2	5	5	7	4	0	0	3
30	0	0	4	-8	-8	-3	-2	-1	-7	5	-96	-221	-139	-138	-144	-43	14	-115	-156	9	82	-85	-25	-12	-45
Q 31	-15	-16	11	10	-14	-22	-18	10	15	24	-43	-3	4	9	3	1	2	8	5	-9	-8	9	9	3	0
Mean	-57	-54	-58	-43	-37	-32	-35	-42	-38	-54	-55	-81	-90	-98	-85	-67	-73	-60	-48	-40	-39	-59	-64	-56	-57
5Q Mean	-6	-7	1	0	-1	-11	-16	0	7	10	-25	-5	0	-1	0	-3	-1	3	-1	-13	-7	1	-29	-1	-4
5D Mean	-59	-69	-151	-68	-10	-17	-33	-61	-80	-156	-93	-150	-148	-191	-165	-143	-199	-134	-155	-143	-152	-176	-160	-86	-116

April 1994

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
	15	14	15	18	17	19	45	68	100	121	49	76	121	86	74	59	59	70	77	46	33	59	66	54	57
D	87	124	143	142	105	171	234	187	146	174	152	133	248	124	262	297	216	200	145	258	251	111	133	135	174
D	158	120	92	260	233	176	185	182	123	119	116	125	68	89	261	220	284	238	283	194	355	153	96	219	181
D	353	146	251	330	292	229	157	176	150	158	130	114	122	109	185	114	69	123	165	144	126	131	145	151	170
	143	132	194	148	158	116	179	140	197	178	174	130	183	212	225	183	142	181	122	142	89	129	149	100	156
	167	127	148	141	244	173	161	249	259	228	217	149	176	100	149	162	317	246	155	199	244	184	153	162	188
	126	153	165	239	209	172	197	198	262	127	165	92	82	81	89	126	152	146	107	148	143	127	183	127	151
	128	142	236	245	165	228	187	156	173	110	103	126	196	187	115	83	155	170	198	191	215	219	207	118	169
D	115	144	194	178	93	168	94	172	192	166	182	190	212	222	192	152	229	179	134	214	185	301	203	120	176
	144	160	151	127	158	154	121	56	105	127	100	127	243	97	131	147	137	173	195	189	254	228	187	181	154
	112	133	102	59	202	209	232	179	100	130	122	133	157	196	108	106	138	145	125	144	261	245	185	145	153
	158	142	140	214	131	94	115	127	163	113	65	87	172	103	77	96	95	118	223	189	182	234	104	42	133
	68	115	129	137	121	135	168	117	147	88	93	107	104	134	130	148	225	284	142	163	222	157	110	98	139
	66	246	195	142	137	69	79	156	115	127	204	148	150	129	72	56	126	158	123	105	108	107	74	129	126
	120	107	131	181	109	93	145	114	100	115	98	130	132	95	96	58	97	191	189	69	41	51	166	161	116
	149	156	122	301	282	250	164	196	153	79	73	92	119	82	140	204	62	35	55	185	316	360	286	165	168
D	93	171	283	274	88	-2	0	-53	69	385	285	141	120	37	42	29	31	45	56	83	105	102	58	51	104
	59	36	59	48	65	116	112	113	162	95	85	90	95	84	163	111	53	44	96	123	140	103	75	55	91
	126	124	133	83	58	72	116	82	112	134	125	93	93	105	64	85	47	31	58	38	45	65	37	57	83
	42	38	51	51	46	38	73	128	150	121	48	69	70	73	33	59	36	47	37	34	34	26	26	31	57
	19	41	60	89	59	43	55	93	60	49	33	60	50	29	30	34	41	27	37	87	84	59	144	98	58
	71	30	12	23	9	11	21	31	50	54	72	109	78	44	26	25	19	10	18	40	51	59	59	33	40
	27	21	19	21	16	24	20	21	20	27	37	121	122	72	186	96	75	68	62	62	122	186	54	78	65
	68	40	33	15	22	96	63	48	57	38	95	38	36	69	44	59	87	32	39	38	15	22	40	52	48
	83	52	40	65	90	32	31	49	18	18	53	49	41	23	13	34	19	39	45	29	26	23	60	48	41
	24	24	11	16	25	65	103	87	37	30	69	80	64	65	50	51	18	30	38	19	18	24	23	30	42
Q	27	25	24	52	43	25	17	49	53	59	33	35	44	40	29	35	27	35	33	35	34	43	45	42	37
Q	47	65	65	61	80	52	42	20	11	8	8	16	26	35	48	28	22	24	25	19	19	15	18	23	32
Q	20	23	18	22	35	84	99	89	171	78	64	38	14	11	11	12	17	25	27	25	25	74	90	48	47
Q	27	18	12	20	44	52	40	18	18	17	15	15	13	9	19	29	36	20	25	33	23	26	24	22	24
Mean	94	95	107	123	111	105	108	108	115	109	102	97	111	91	102	96	101	104	101	108	125	120	106	92	105
5Q Mean	29	31	26	34	45	55	60	52	58	38	37	36	32	32	31	31	24	26	29	26	23	36	40	33	36
5D Mean	161	141	192	236	162	148	134	132	136	200	173	140	154	116	188	162	165	157	156	178	204	159	127	135	161

AL Index (Provisional Hourly mean values, unit nF)

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	-22	-24	-20	-17	-46	-45	-72	-187	-149	-108	-68	-106	-175	-130	-203	-66	-90	-168	-131	-55	-27	-48	-88	-93	-89
D	-125	-375	-216	-156	-82	-143	-354	-195	-49	-190	-324	-503	-212	-146	-506	-678	-753	-725	-718	-410	-176	-413	-311	-372	-339
D	-572	-492	-475	-421	-331	-255	-383	-341	-992	-204	-285	-675	-576	-280	-291	-365	-481	-259	-789	-470	-373	-798	-528	-324	-457
D	-621	-1027	-747	-431	-668	-440	-461	-183	-301	-573	-543	-417	-539	-353	-500	-307	-118	-211	-545	-235	-309	-513	-324	-462	-451
	-476	-507	-503	-287	-452	-728	-381	-304	-284	-482	-582	-417	-451	-501	-657	-542	-210	-286	-120	-275	-129	-186	-848	-425	-418
	-371	-382	-349	-268	-338	-255	-226	-692	-493	-416	-833	-282	-717	-416	-312	-372	-627	-622	-386	-408	-404	-595	-337	-173	-428
	-384	-560	-622	-378	-399	-327	-294	-425	-612	-348	-235	-166	-177	-466	-232	-281	-509	-475	-132	-180	-371	-245	-694	-509	-376
	-502	-513	-488	-694	-374	-392	-477	-487	-483	-230	-283	-740	-988	-538	-310	-135	-214	-383	-460	-285	-540	-530	-337	-296	-445
D	-614	-766	-621	-384	-340	-288	-395	-477	-587	-352	-1012	-944	-829	-578	-427	-253	-583	-429	-244	-597	-259	-299	-453	-604	-514
	-421	-439	-295	-336	-211	-455	-221	-45	-80	-528	-567	-439	-784	-401	-402	-499	-221	-187	-416	-425	-337	-391	-354	-798	-385
	-769	-467	-109	-52	-278	-705	-471	-497	-584	-407	-293	-486	-478	-429	-128	-193	-373	-366	-432	-261	-329	-439	-887	-522	-415
	-295	-338	-415	-346	-244	-169	-324	-211	-417	-160	-56	-79	-461	-377	-263	-320	-246	-208	-431	-522	-214	-519	-196	-67	-287
	-87	-146	-479	-520	-286	-224	-482	-290	-410	-238	-76	-168	-466	-576	-376	-295	-260	-606	-213	-154	-604	-331	-292	-544	-338
	-499	-542	-83	-79	-182	-144	-108	-317	-249	-292	-515	-438	-461	-266	-64	-126	-557	-284	-164	-230	-183	-136	-143	-498	-273
	-351	-444	-398	-429	-217	-42	-175	-323	-333	-212	-204	-397	-441	-524	-275	-126	-221	-430	-478	-128	-15	-19	-152	-355	-279
	-411	-294	-299	-457	-559	-410	-229	-322	-266	-67	-24	-104	-169	-307	-314	-200	-31	-13	-38	-193	-646	-493	-344	-175	-265
D	-467	-913	-1012	-872	-565	-629	-1010	-1413	-804	-586	-207	-329	-234	-78	-70	-49	-53	-27	-29	-58	-58	-36	-40	-106	-402
	-151	-159	-118	-168	-164	-250	-309	-357	-185	-174	-309	-288	-269	-307	-506	-343	-115	-57	-108	-283	-541	-121	-94	-143	-229
	-238	-675	-202	-145	-111	-131	-197	-119	-76	-260	-159	-84	-72	-166	-147	-101	-62	-19	-32	-69	-22	-61	-140	-64	-140
	-138	-42	-120	-262	-104	-31	-106	-363	-290	-219	-57	-37	-80	-75	-95	-44	-66	-46	-12	-27	-18	-19	-31	-45	-97
	-35	-31	-63	-178	-115	-42	-42	-163	-95	-43	-32	-75	-42	-45	-32	-24	-46	-44	-51	-137	-152	-54	-210	-175	-80
	-101	-43	-18	-41	-23	-40	-32	-86	-180	-72	-37	-124	-249	-80	-33	-43	-50	-93	-71	-55	-47	-89	-116	-35	-73
	-32	-49	-36	-54	-30	-20	-27	-27	-26	-20	-23	-55	-237	-290	-360	-176	-191	-83	-119	-73	-128	-509	-51	-41	-111
	-61	-46	-50	-13	-15	-169	-231	-64	-22	-28	-262	-189	-29	-121	-102	-169	-326	-85	-15	-25	-29	-15	-20	-39	-89
	-173	-114	-34	-48	-180	-102	-34	-23	-34	-23	-29	-37	-80	-44	-30	-39	-49	-43	-69	-22	-11	-15	-46	-97	-57
	-26	-17	-13	-23	-28	-58	-175	-55	-23	-24	-103	-154	-75	-65	-43	-64	-36	-13	-32	-20	-19	-14	-18	-23	-47
Q	-26	-23	-14	-57	-95	-35	-35	-50	-60	-26	-30	-31	-23	-13	-20	-12	-73	-102	-31	-18	-16	-52	-34	-49	-38
Q	-97	-62	-47	-28	-27	-32	-25	-31	-20	-22	-26	-26	-30	-20	-31	-69	-20	-9	-15	-10	-15	-16	-15	-14	-29
Q	-21	-17	-17	-29	-58	-120	-80	-152	-208	-71	-31	-33	-28	-25	-27	-31	-30	-43	-25	-21	-16	-66	-201	-69	-59
Q	-15	-17	-17	-9	-39	-88	-39	-23	-16	-20	-23	-27	-30	-24	-29	-39	-50	-39	-19	-92	-49	-14	-13	-16	-31
Mean	-270	-317	-262	-239	-218	-225	-246	-274	-277	-213	-240	-261	-313	-254	-226	-198	-222	-211	-210	-191	-201	-234	-243	-237	-241
5Q Mean	-37	-27	-21	-29	-49	-66	-70	-62	-65	-32	-42	-54	-37	-29	-30	-43	-41	-41	-24	-32	-23	-32	-56	-34	-40
5D Mean	-479	-714	-614	-452	-397	-351	-520	-521	-546	-381	-474	-573	-478	-287	-358	-330	-397	-330	-465	-354	-235	-411	-331	-373	-432

AE Index (Provisional Hourly mean values, unit nT)

April 1994

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	40	36	36	64	65	118	256	250	230	119	183	296	217	278	127	150	239	210	101	61	108	154	148	147
D 2	213	500	360	299	187	316	589	383	196	366	477	636	462	270	769	976	970	926	863	669	427	525	445	508	514
D 3	732	613	568	682	566	433	569	524	1116	324	402	801	644	370	553	586	766	498	1072	665	729	952	624	544	639
D 4	975	1174	999	762	962	670	619	361	452	732	675	532	661	463	686	422	188	335	710	380	436	646	470	613	622
5	619	640	698	436	611	846	561	445	483	662	757	548	635	713	882	726	353	468	243	418	219	316	998	526	575
6	539	510	498	410	584	429	389	942	754	645	1051	432	894	517	462	535	945	869	542	607	648	780	491	335	617
7	511	714	789	619	609	501	492	625	875	477	401	259	260	548	321	408	662	621	239	329	515	373	878	637	528
8	630	656	725	941	540	621	666	644	657	341	387	867	1184	725	426	220	370	554	658	477	756	750	545	414	615
D 9	729	911	817	564	434	458	490	650	780	519	1194	1134	1042	801	620	406	813	609	378	811	444	601	656	725	691
10	566	600	447	463	370	610	343	102	186	657	668	567	1027	500	533	648	359	361	611	615	592	620	543	980	540
11	882	601	212	112	482	915	704	677	685	538	416	619	635	626	237	300	512	512	558	405	591	684	1072	668	569
12	454	481	555	561	376	265	440	340	581	274	123	167	633	480	340	417	341	327	654	711	396	753	301	110	420
13	156	263	608	658	408	361	651	408	558	328	171	276	570	710	507	444	486	892	357	318	826	488	402	643	479
14	566	789	278	222	319	215	188	475	366	420	720	587	612	396	137	183	684	443	288	336	292	243	217	628	400
15	472	552	530	611	327	136	321	439	435	328	303	528	574	620	372	185	319	622	668	198	58	71	320	516	396
16	561	451	422	759	842	662	394	519	420	148	98	197	288	389	454	405	93	49	94	379	962	854	630	341	434
D 17	562	1085	1296	1146	654	627	1010	1359	875	972	493	472	354	116	113	78	84	74	86	143	164	139	98	158	507
18	211	196	177	217	230	367	422	471	348	271	395	358	364	392	670	455	170	102	204	406	682	225	170	199	321
19	364	799	336	229	170	204	314	202	190	395	286	179	167	271	212	187	111	51	91	108	68	128	178	122	223
20	180	82	172	314	152	69	180	492	441	341	106	106	151	149	130	105	104	95	50	61	53	46	58	77	155
21	55	73	124	269	175	86	97	258	156	94	66	137	93	76	63	60	88	72	89	225	236	114	356	274	139
22	173	74	32	66	33	52	53	118	231	127	110	234	328	126	60	70	71	105	90	96	99	148	176	69	114
23	60	72	56	76	47	44	48	48	47	48	60	178	360	363	547	273	267	152	182	135	251	696	107	120	177
24	129	88	85	29	38	266	295	113	80	67	358	228	67	192	147	229	414	118	55	63	44	38	62	92	137
25	256	167	75	115	272	136	65	73	53	42	84	87	123	69	45	74	69	83	115	52	37	40	107	146	99
Q 26	52	42	26	40	53	123	278	143	60	55	173	235	141	132	94	116	55	44	71	40	38	38	43	54	89
Q 27	55	49	39	111	139	61	53	99	114	86	65	68	68	55	49	48	102	138	64	54	51	96	79	91	76
Q 28	144	128	114	90	108	85	68	52	31	30	36	43	57	80	97	40	42	34	40	30	35	32	34	38	63
Q 29	43	41	36	51	94	204	181	242	380	150	96	72	43	37	39	45	47	68	52	47	41	141	292	117	107
Q 30	43	37	29	29	85	142	80	42	35	38	39	42	43	34	50	69	87	60	45	126	73	40	38	39	56
Mean	365	414	371	363	331	332	355	383	394	323	344	359	425	347	329	296	324	317	312	300	327	356	351	331	348
5Q Mean	67	59	48	64	95	123	132	115	124	71	81	92	70	63	62	75	66	68	54	59	47	69	97	67	78
5D Mean	642	856	808	690	560	500	655	655	683	582	648	715	632	404	548	493	564	488	621	533	440	572	458	509	594

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April 1994

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	-2	-4	0	-14	-12	-13	-58	-24	6	-8	-14	-26	-21	-64	-3	-15	-48	-26	-4	2	5	-10	-19	-15
D	2	-18	-124	-36	-6	11	13	-59	-3	48	-8	-85	-184	18	-10	-121	-189	-268	-261	-286	37	-150	-88	-118	-82
D	3	-206	-185	-190	-80	-48	-39	-98	-79	-434	-42	-83	-274	-253	-94	-14	-71	-98	-10	-252	-137	-9	-321	-215	-51
D	4	-133	-439	-247	-50	-187	-104	-151	-3	-75	-206	-206	-151	-207	-121	-156	-96	-23	-43	-189	-45	-91	-190	-89	-155
D	5	-166	-187	-153	-69	-146	-305	-100	-81	-43	-151	-203	-142	-133	-143	-215	-179	-33	-52	0	-66	-19	-28	-348	-161
D	6	-101	-127	-100	-63	-46	-40	-32	-221	-116	-93	-306	-65	-269	-157	-81	-104	-154	-187	-115	-104	-79	-205	-91	-5
D	7	-128	-203	-227	-68	-94	-76	-48	-113	-174	-110	-34	-86	-47	-192	-70	-76	-178	-163	-12	-16	-113	-58	-254	-190
D	8	-186	-185	-124	-223	-103	-81	-144	-165	-154	-59	-89	-306	-395	-175	-96	-25	-29	-105	-131	-46	-162	-154	-64	-88
D	9	-249	-310	-212	-102	-122	-59	-150	-151	-197	-92	-414	-376	-308	-177	-116	-49	-176	-124	-54	-191	-37	1	-124	-241
D	10	-137	-139	-71	-103	-26	-150	-49	5	12	-200	-233	-155	-270	-151	-134	-175	-41	-6	-110	-117	-41	-80	-82	-307
D	11	-327	-166	-3	3	-37	-247	-118	-158	-241	-137	-84	-175	-159	-116	-9	-43	-117	-110	-153	-58	-33	-96	-350	-188
D	12	-68	-97	-136	-65	-56	-37	-104	-41	-126	-22	4	-143	-136	-92	-111	-75	-44	-103	-166	-16	-141	-45	-12	-76
D	13	-8	-15	-174	-191	-81	-44	-156	-85	-131	-74	8	-30	-180	-220	-122	-73	-17	-160	-35	4	-190	-86	-90	-222
D	14	-216	-147	55	31	-22	-37	-14	-79	-65	-81	-154	-144	-154	-68	4	-35	-215	-63	-20	-62	-37	-14	-34	-184
D	15	-115	-168	-133	-123	-54	25	-15	-103	-115	-47	-52	-132	-153	-213	-89	-33	-61	-118	-143	-29	12	15	6	-96
D	16	-130	-68	-88	-77	-138	-79	-32	-62	-55	5	24	-5	-24	-111	-86	1	15	10	8	-4	-164	-66	-28	-5
D	17	-186	-370	-363	-298	-238	-315	-505	-733	-367	-100	38	-93	-56	-19	-14	-9	-11	8	12	12	22	32	8	-27
D	18	-45	-61	-29	-59	-49	-66	-97	-120	-11	-38	-111	-88	-86	-110	-170	-115	-30	-6	-5	-79	-200	-8	-9	-43
D	19	-55	-275	-34	-31	-26	-29	-40	-17	17	-62	-16	4	10	-29	-40	-7	-7	5	12	-15	11	2	-50	-3
D	20	-47	-2	-34	-105	-28	3	-16	-116	-69	-48	-4	15	-4	0	-30	6	-14	0	11	3	7	3	-2	-6
D	21	-7	4	-1	-44	-27	0	5	-34	-16	2	0	-6	3	-7	0	4	-2	-8	-6	-24	-33	2	-32	-37
D	22	-14	-6	-2	-8	-6	-14	-5	-27	-64	-9	17	-7	-85	-17	-3	-8	-14	-41	-26	-7	1	-14	-27	-1
D	23	-2	-14	-8	-16	-6	1	-3	-2	-2	3	6	32	-57	-108	-86	-39	-58	-7	-28	-5	-3	-160	1	18
D	24	3	-2	-8	0	3	-86	-83	-8	17	4	-83	-74	3	-25	-29	-54	-118	-26	11	6	-6	3	9	6
D	25	-44	-30	3	8	-44	-34	-1	12	-7	-2	12	6	-19	-10	-7	-2	-14	-1	-11	3	6	3	6	-24
D	26	0	3	0	-2	-1	3	-36	15	6	2	-17	-36	-5	0	3	-6	-8	7	2	0	0	4	2	3
D	27	0	1	4	-2	-25	-4	-8	0	-3	16	1	1	9	13	4	11	-23	-33	0	7	8	-4	5	-3
D	28	-23	1	8	16	25	9	7	-5	-4	-6	-7	-4	-1	7	8	-20	1	6	4	4	1	0	1	4
D	29	0	2	0	-3	-11	-17	8	-31	-18	3	16	2	-6	-7	-9	-6	-8	0	2	3	3	3	-55	-10
D	30	5	0	-2	5	2	-17	0	-2	0	-1	-3	-5	-7	-6	-4	-4	-6	-9	2	-29	-12	5	5	2
Mean		-86	-110	-76	-57	-53	-59	-68	-82	-80	-51	-68	-81	-100	-80	-61	-50	-59	-53	-54	-41	-37	-56	-68	-72
5Q Mean		-3	1	2	2	-2	-5	-4	-3	2	-2	-8	-2	1	0	-5	-8	-7	1	-3	0	1	-8	0	-2
5D Mean		-158	-285	-209	-107	-116	-100	-192	-193	-205	-89	-150	-215	-161	-84	-84	-82	-115	-86	-153	-87	-15	-125	-101	-118

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May 1994

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	22	24	29	36	50	95	156	232	221	254	287	285	151	305	355	351	288	293	306	262	307	366	230	244	214
D	169	157	229	325	226	304	196	152	133	121	58	43	67	69	49	82	119	150	196	180	212	257	192	239	164
D	209	153	239	447	243	302	225	204	190	280	188	152	112	236	125	141	174	161	206	173	173	101	96	134	194
D	147	137	186	143	233	109	102	125	106	116	176	86	80	101	155	213	159	164	113	104	108	139	179	198	141
D	138	190	240	189	230	165	101	169	178	158	122	107	117	201	165	360	293	151	133	249	238	226	183	173	187
D	211	195	232	329	255	261	222	259	153	84	233	176	86	126	50	125	211	176	151	243	227	218	169	173	190
D	141	277	175	135	223	269	145	225	240	181	189	144	199	129	89	121	95	177	168	184	176	136	123	91	168
D	173	161	223	246	202	135	183	194	169	215	180	122	169	122	89	73	180	186	314	303	244	201	228	149	186
D	145	126	145	165	95	173	138	147	151	134	214	203	150	66	67	95	153	186	200	162	115	85	137	209	144
D	165	236	194	211	118	162	160	231	122	84	155	130	107	105	238	169	148	221	172	193	255	238	221	211	177
D	124	152	137	156	195	148	161	164	111	127	120	181	93	134	111	81	162	266	200	192	186	190	193	147	155
D	203	213	169	122	119	193	85	75	92	98	87	105	67	41	39	39	31	32	34	34	27	36	133	108	91
Q	52	70	84	137	123	112	114	68	29	39	30	23	29	44	56	42	25	55	89	110	166	139	116	85	77
D	78	74	125	194	297	379	268	187	122	132	66	75	128	78	103	76	54	65	95	94	87	222	197	90	137
D	140	111	125	128	94	103	92	196	320	311	271	117	255	94	58	70	78	167	260	145	177	167	135	241	161
D	181	88	147	286	162	186	220	110	85	202	207	213	305	132	151	233	263	106	137	146	163	127	123	95	170
D	196	144	118	168	124	77	82	114	91	106	106	98	122	96	77	54	103	142	94	55	48	29	45	161	102
D	163	148	185	232	205	251	161	102	60	51	36	53	149	145	111	73	72	122	124	97	107	227	224	175	136
D	88	75	126	163	185	155	109	68	64	61	52	137	156	132	59	58	53	37	33	34	37	38	62	35	84
Q	50	79	89	128	101	72	74	83	39	28	28	38	54	55	91	106	74	40	51	28	30	40	33	30	60
D	34	31	28	24	35	31	36	36	50	51	34	71	92	104	74	44	54	68	58	54	55	48	81	42	51
Q	47	40	33	33	36	103	47	32	55	61	70	74	106	127	108	57	44	58	57	88	161	143	107	74	73
D	46	44	34	40	43	65	52	52	43	41	153	86	102	81	63	47	107	114	91	99	98	109	189	207	83
D	158	95	162	261	296	268	269	230	136	187	176	82	80	137	111	79	71	81	165	158	144	183	160	117	159
D	196	278	214	227	240	229	116	54	142	167	143	121	61	56	75	82	83	137	64	70	74	158	108	77	132
D	60	29	33	28	19	174	225	226	207	211	145	117	68	31	52	77	49	46	50	58	76	78	46	67	90
Q	119	70	58	70	70	61	42	12	19	35	38	41	46	51	63	57	77	91	83	71	41	40	68	45	57
D	28	21	20	29	31	38	55	55	68	133	142	165	149	162	249	382	405	253	298	379	250	308	220	247	170
D	177	189	208	318	276	127	178	186	194	151	73	144	150	74	84	255	295	170	146	181	153	181	238	158	179
D	237	245	187	222	385	259	294	289	149	148	149	128	162	181	203	328	240	354	214	143	166	267	264	219	226
D	178	177	154	254	215	233	194	196	202	136	229	167	107	100	90	95	89	78	91	189	253	193	188	210	167
Mean	131	129	139	175	165	169	145	144	127	132	134	118	119	113	110	131	136	140	141	144	146	157	151	143	139
5Q Mean	60	58	58	78	73	75	62	46	38	42	40	49	65	76	78	61	54	62	67	70	90	82	81	55	63
5D Mean	186	186	220	300	272	231	198	200	168	171	118	114	121	152	125	233	224	197	179	185	188	206	194	184	190

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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	-3	5	0	-6	-89	-250	-301	-336	-391	-228	-205	-389	-447	-501	-480	-422	-291	-367	-255	-425	-459	-318	-623	-283
D	-406	-434	-359	-796	-806	-341	-291	-233	-206	-360	-99	-122	-90	-160	-40	-121	-368	-257	-221	-364	-495	-455	-734	-466	-343
D	-503	-600	-830	-593	-515	-497	-328	-397	-409	-332	-530	-556	-474	-640	-203	-195	-447	-454	-652	-320	-210	-118	-182	-445	-435
4	-302	-278	-329	-420	-392	-346	-226	-184	-108	-213	-409	-318	-203	-225	-500	-524	-428	-304	-167	-192	-110	-269	-406	-432	-304
D	-492	-400	-518	-415	-467	-258	-88	-430	-400	-421	-272	-248	-189	-661	-428	-833	-619	-384	-194	-383	-620	-333	-354	-273	-403
6	-581	-634	-586	-564	-491	-583	-327	-311	-414	-192	-175	-390	-110	-122	-53	-180	-479	-406	-191	-273	-226	-234	-708	-736	-374
7	-805	-503	-432	-187	-349	-550	-379	-456	-648	-432	-192	-379	-712	-471	-175	-301	-127	-305	-476	-176	-241	-257	-276	-160	-375
8	-327	-681	-749	-525	-425	-246	-330	-476	-428	-448	-355	-209	-333	-351	-86	-65	-439	-448	-604	-469	-401	-422	-283	-385	-395
9	-338	-94	-188	-643	-268	-259	-125	-246	-227	-284	-760	-568	-254	-130	-154	-280	-255	-189	-222	-296	-107	-70	-219	-479	-277
10	-479	-501	-453	-494	-252	-304	-485	-568	-197	-82	-125	-412	-374	-337	-458	-233	-213	-224	-221	-466	-416	-298	-335	-435	-348
11	-127	-176	-468	-316	-418	-436	-412	-172	-82	-414	-273	-292	-220	-221	-159	-135	-176	-254	-264	-175	-214	-268	-413	-512	-275
12	-293	-178	-374	-313	-110	-290	-360	-129	-86	-173	-120	-101	-116	-92	-38	-30	-20	-16	-43	-46	-31	-85	-120	-125	-135
Q	-48	-60	-147	-316	-339	-155	-134	-51	-56	-63	-101	-32	-24	-32	-50	-114	-96	-133	-62	-92	-74	-147	-101	-29	-102
14	-49	-57	-164	-521	-629	-462	-190	-218	-98	-104	-110	-118	-183	-246	-217	-74	-22	-35	-40	-14	-37	-96	-224	-40	-165
15	-24	-29	-90	-285	-141	-77	-59	-365	-669	-456	-339	-576	-491	-399	-394	-86	0	-196	-461	-292	-154	-105	-99	-435	-259
16	-483	-168	-135	-312	-321	-310	-325	-148	-119	-388	-320	-287	-784	-206	-290	-328	-453	-173	-162	-105	-426	-225	-189	-196	-286
17	-369	-454	-169	-281	-146	-158	-232	-423	-234	-287	-280	-221	-204	-201	-51	-15	-126	-337	-152	-68	-25	-18	-31	-109	-191
18	-394	-415	-353	-278	-308	-596	-263	-101	-146	-114	-86	-54	-359	-373	-251	-167	-126	-180	-128	-59	-103	-409	-446	-354	-253
19	-134	-48	-182	-255	-297	-463	-238	-89	-216	-302	-81	-170	-357	-341	-68	-43	-80	-13	-9	-17	-42	-62	-57	-14	-149
Q	-12	-38	-117	-250	-253	-54	-14	-59	-67	-88	-129	-73	-72	-48	-103	-362	-191	-33	-21	-8	-6	-16	-15	-13	-85
Q	-14	-12	-8	-6	-5	-14	-20	-23	-29	-31	-46	-116	-137	-118	-188	-92	-12	-10	-24	-106	-82	0	-24	-14	-47
Q	-13	-15	-2	2	-1	-27	-61	-23	-27	-33	-34	-96	-133	-123	-110	-100	-33	6	-15	-69	-125	-178	-84	-41	-56
23	-6	-4	-9	-16	-29	-45	-51	-15	-19	-25	-69	-68	-57	-26	-20	-37	-59	-218	-127	-70	-36	-182	-331	-390	-80
24	-182	-87	-203	-594	-496	-315	-249	-161	-74	-127	-222	-68	-53	-93	-153	-234	-107	-33	-169	-72	-41	-66	-81	-149	-168
25	-187	-395	-279	-518	-542	-407	-247	-69	-103	-311	-228	-79	-41	-28	-27	-45	-142	-369	-59	-21	-52	-185	-191	-143	-194
26	-54	-16	-8	-20	-14	-115	-462	-396	-458	-503	-124	-111	-74	-76	-115	-163	-62	-10	-17	-31	-45	-103	-68	-36	-128
Q	-187	-124	-42	-84	-91	-52	-58	-24	-22	-24	-24	-53	-18	-26	-61	-169	-208	-206	-30	-74	-59	-32	-48	-32	-73
28	-15	-12	-5	-12	-11	-38	-73	-25	-57	-101	-307	-193	-141	-206	-544	-730	-758	-243	-305	-564	-793	-132	-220	-383	-244
D	-199	-429	-609	-627	-293	-177	-173	-179	-301	-585	-503	-229	-305	-276	-164	-529	-680	-277	-154	-279	-121	-96	-390	-262	-327
D	-381	-596	-436	-547	-587	-465	-348	-458	-343	-203	-354	-565	-461	-411	-568	-666	-406	-387	-386	-85	-144	-361	-624	-404	-424
31	-316	-122	-237	-420	-452	-405	-465	-337	-225	-121	-464	-377	-231	-264	-180	-259	-200	-64	-83	-609	-416	-209	-373	-454	-303
Mean	-249	-243	-273	-342	-304	-275	-234	-227	-219	-245	-237	-235	-244	-237	-204	-244	-250	-207	-194	-195	-202	-188	-256	-276	-241
5Q Mean	-54	-49	-63	-130	-137	-60	-57	-36	-40	-47	-66	-74	-76	-69	-102	-167	-108	-75	-30	-69	-69	-74	-54	-25	-72
5D Mean	-396	-491	-550	-595	-533	-347	-245	-339	-331	-380	-351	-344	-303	-429	-280	-468	-504	-351	-321	-286	-318	-272	-456	-370	-386

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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	32	28	23	36	56	184	406	534	558	647	516	491	541	753	858	832	690	586	675	518	733	826	548	867	498
D	576	591	588	1122	1034	646	488	386	341	483	159	166	158	231	91	204	489	408	419	545	708	712	927	705	507
D	713	753	1070	1041	759	801	555	602	600	613	719	709	588	878	330	337	622	616	859	494	384	220	279	580	630
4	449	416	516	563	626	456	329	311	216	331	586	405	285	327	656	739	589	470	281	297	219	409	585	630	445
D	631	590	759	604	698	424	190	601	580	580	396	357	308	863	594	1194	913	536	329	633	859	559	537	447	591
6	792	830	818	893	747	845	550	571	568	277	410	568	198	250	104	307	691	584	344	518	454	452	877	909	565
7	946	780	607	322	573	820	525	682	890	614	382	525	912	602	265	423	223	483	645	361	417	394	400	252	544
8	500	843	973	772	628	381	514	671	599	664	536	332	504	474	175	139	620	636	919	772	646	624	512	535	582
9	483	221	334	809	364	433	264	394	380	420	976	772	406	197	222	376	409	377	423	459	223	157	358	689	423
10	645	738	648	706	371	467	646	800	320	166	281	543	483	444	697	403	362	447	394	660	672	536	557	647	526
11	251	328	606	472	614	585	573	337	193	542	394	475	314	356	271	218	340	521	466	368	401	458	607	660	431
12	496	391	543	436	230	484	446	205	179	272	208	185	134	78	70	53	50	78	81	60	72	253	234	227	431
Q	101	130	231	453	462	268	249	119	86	103	132	56	54	78	108	157	122	189	153	203	242	287	217	115	180
14	128	132	290	715	926	842	459	406	221	237	177	194	313	325	321	152	77	101	136	110	125	319	422	132	303
15	165	140	215	413	235	180	151	562	990	768	612	694	748	494	453	156	77	364	721	438	332	273	235	676	421
16	664	257	283	598	484	496	546	259	205	592	529	501	1090	339	443	563	717	281	300	253	591	353	312	292	456
17	565	599	288	450	270	236	315	538	326	394	388	320	327	299	130	69	229	480	248	124	74	49	76	271	294
18	557	563	539	511	513	848	424	203	207	167	124	108	509	520	363	242	200	304	253	158	211	637	670	529	390
19	223	124	309	418	483	618	347	158	281	365	134	308	514	474	128	102	135	51	44	52	80	102	120	49	234
Q	62	118	207	378	355	126	88	143	106	117	158	112	128	105	195	470	267	74	73	36	36	58	49	44	146
21	48	44	37	30	41	45	56	59	80	83	81	189	231	223	263	138	68	80	84	161	138	49	105	57	100
Q	60	56	36	31	38	130	109	56	83	95	104	172	241	252	220	158	77	51	73	158	288	322	191	116	130
23	54	48	44	57	72	110	104	67	62	67	223	155	160	108	84	86	167	334	220	170	135	292	521	598	164
24	341	183	366	855	792	584	518	391	211	316	399	151	134	231	265	315	179	115	335	231	187	251	241	266	327
25	383	674	494	746	782	638	363	124	247	480	372	202	103	86	104	128	226	507	124	92	127	344	301	220	328
26	115	46	42	49	33	290	688	624	666	715	270	230	143	109	168	242	112	57	68	90	122	182	115	103	220
Q	307	194	101	154	161	114	100	37	42	59	62	95	65	79	125	228	287	299	114	146	101	72	116	78	131
28	43	34	26	41	42	77	128	80	126	235	451	360	291	370	794	1113	1165	497	604	945	1044	440	441	630	416
D	376	619	817	946	569	305	352	366	497	738	577	374	457	351	249	785	977	449	301	462	275	277	628	420	507
D	618	841	624	769	973	725	642	748	494	353	504	695	624	593	773	995	647	743	601	230	311	628	888	623	652
31	495	300	391	675	668	639	659	534	428	257	694	545	340	365	271	354	290	143	175	799	669	402	561	665	472
Mean	381	374	413	518	470	445	380	373	347	379	372	355	366	351	316	377	387	349	337	340	350	346	408	420	381
5Q Mean	115	108	122	209	211	136	120	82	79	91	107	124	143	147	182	230	164	138	99	140	161	157	135	82	137
5D Mean	582	678	771	896	806	580	445	540	502	553	471	460	427	583	407	703	729	550	501	472	507	479	651	555	577

AO Index (Provisional Hourly mean values, unit nT)

May

1994

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	6	10	17	17	21	3	-46	-33	-56	-67	29	39	-118	-70	-72	-63	-76	1	-30	3	-58	-45	-43	-189	-34
D	2	-118	-138	-64	-235	-289	-18	-47	-40	-35	-118	-20	-39	-11	-44	4	-18	-123	-53	-12	-91	-140	-98	-270	-113	-89
D	3	-146	-222	-294	-72	-136	-97	-51	-95	-108	-25	-170	-201	-180	-201	-38	-26	-135	-145	-222	-72	-18	-8	-42	-155	-119
D	4	-77	-70	-71	-137	-79	-118	-60	-29	0	-48	-115	-115	-60	-61	-171	-154	-133	-69	-26	-43	-1	-64	-112	-116	-80
D	5	-176	-104	-138	-112	-118	-46	6	-129	-110	-131	-74	-69	-35	-228	-131	-236	-162	-116	-30	-66	-190	-52	-84	-50	-107
	6	-184	-218	-176	-116	-117	-160	-51	-25	-130	-53	28	-106	-11	2	-1	-27	-133	-114	-19	-14	0	-7	-268	-281	-91
	7	-331	-112	-128	-25	-63	-140	-116	-114	-203	-124	0	-117	-255	-170	-42	-89	-15	-63	-153	4	-32	-59	-76	-33	-102
	8	-77	-259	-261	-139	-110	-55	-72	-140	-128	-115	-86	-43	-81	-114	1	3	-128	-130	-144	-82	-78	-109	-27	-117	-104
	9	-95	15	-21	-239	-85	-42	6	-49	-37	-74	-272	-181	-51	-31	-42	-91	-50	-1	-10	-66	3	7	-40	-134	-66
	10	-156	-131	-128	-141	-66	-70	-161	-167	-36	0	15	-140	-133	-115	-109	-31	-31	-1	-24	-136	-79	-29	-56	-111	-85
	11	-1	-12	-165	-79	-111	-143	-124	-4	14	-142	-75	-54	-62	-42	-23	-26	-7	5	-31	8	-13	-38	-109	-182	-59
	12	-44	17	-102	-94	3	-48	-136	-26	3	-36	-15	2	-24	-25	0	4	5	7	-4	-5	-1	0	6	-8	-21
Q	13	1	4	-30	-88	-107	-20	-9	7	-13	-12	-35	-4	2	5	2	-35	-34	-38	13	9	45	-3	7	27	-12
	14	14	7	-19	-163	-165	-41	39	-15	11	14	-21	-21	-27	-83	-56	1	15	14	27	39	24	62	-13	24	-13
	15	57	40	17	-78	-22	12	15	-84	-174	-72	-33	-229	-117	-151	-167	-8	39	-14	-100	-72	11	30	18	-97	-49
	16	-150	-39	5	-12	-79	-60	-52	-18	-16	-92	-55	-36	-239	-36	-69	-46	-94	-33	-12	20	-130	-48	-32	-50	-57
	17	-85	-154	-25	-56	-10	-40	-74	-153	-71	-90	-86	-60	-40	-51	12	18	-11	-96	-28	-6	11	5	6	25	-44
	18	-114	-133	-83	-23	-50	-172	-50	0	-42	-31	-24	0	-104	-113	-69	-46	-26	-28	-1	18	1	-90	-110	-89	-57
	19	-22	13	-27	-45	-55	-153	-63	-9	-75	-119	-13	-15	-99	-103	-4	7	-13	11	11	8	-2	-11	2	10	-32
Q	20	18	20	-13	-60	-75	8	29	11	-14	-29	-50	-17	-8	2	-6	-127	-58	3	14	9	11	11	8	8	-12
	21	9	9	9	8	14	7	7	6	10	9	-5	-22	-21	-7	-56	-23	20	28	16	-25	-13	24	27	14	2
Q	22	16	11	14	17	17	37	-7	4	14	13	17	-10	-13	2	-1	-21	5	32	20	9	17	-17	11	16	8
	23	19	19	11	11	6	9	0	18	11	7	41	9	22	26	20	4	23	-51	-17	14	30	-36	-69	-91	1
	24	-11	4	-20	-165	-99	-23	10	34	30	30	-22	7	13	21	-20	-77	-17	23	-1	42	50	58	39	-15	-4
	25	4	-58	-32	-145	-150	-88	-64	-7	19	-71	-42	20	9	13	23	17	-29	-115	2	24	10	-13	-40	-32	-31
	26	3	5	12	3	1	29	-118	-83	-124	-144	10	2	-2	-22	-31	-42	-6	17	16	13	15	-11	-10	14	-18
Q	27	-34	-27	7	-7	-10	3	-7	-5	-1	5	6	-6	13	11	0	-55	-64	-57	26	0	-8	4	9	6	-7
	28	6	4	6	7	9	0	-8	14	5	15	-82	-13	3	-21	-146	-173	-176	5	-2	-92	-271	87	0	-67	-37
D	29	-11	-119	-199	-154	-8	-24	2	3	-52	-216	-214	-42	-76	-100	-39	-136	-192	-52	-3	-48	15	42	-75	-51	-73
D	30	-71	-175	-124	-162	-100	-102	-26	83	-96	-26	-101	-218	-148	-113	-181	-168	-82	-16	-85	28	10	-46	-179	-92	-98
	31	-68	27	-41	-83	-118	-86	-134	-69	-10	7	-116	-104	-61	-81	-44	-81	-55	6	3	-209	-81	-7	-92	-121	-67
Mean		-58	-56	-66	-82	-69	-52	-43	-41	-45	-55	-50	-57	-61	-61	-46	-56	-56	-33	-26	-25	-27	-14	-52	-66	-50
5Q Mean		2	3	-2	-26	-32	7	2	4	0	-2	-13	-11	-5	2	-12	-52	-26	-6	17	0	10	3	12	14	-4
5D Mean		-104	-151	-163	-147	-130	-57	-23	-68	-80	-103	-115	-113	-90	-137	-77	-116	-138	-76	-70	-49	-64	-32	-130	-92	-97

AU Index (Provisional Hourly mean values, unit nT) 1994

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	149	143	184	228	157	168	224	231	176	196	184	137	117	87	110	64	98	124	128	120	180	206	143	218	157	
D	183	154	157	104	135	142	142	174	168	242	227	166	58	66	66	174	143	108	159	154	158	225	176	209	154	
D	166	192	164	213	172	124	100	82	68	39	165	124	90	103	171	162	199	184	248	186	147	175	181	206	153	
4	201	195	135	204	164	147	117	112	197	195	144	120	142	137	63	94	142	92	108	105	144	169	115	188	143	
5	154	114	104	59	113	201	90	107	82	54	28	147	79	61	54	43	46	187	228	223	270	254	143	232	128	
6	173	108	104	82	149	97	85	83	42	47	110	139	120	126	139	149	89	67	124	201	287	227	130	116	125	
7	169	160	124	120	167	127	102	117	234	165	106	123	144	79	37	31	62	87	99	136	139	128	126	144	122	
8	113	205	162	111	84	51	58	93	73	69	187	145	82	105	128	127	87	63	85	78	66	85	113	109	103	
9	78	48	68	111	108	74	124	140	124	186	89	29	13	14	60	62	57	43	49	47	37	43	63	88	73	
10	159	119	69	127	155	81	77	81	144	195	300	158	86	64	69	81	170	153	117	108	170	167	109	74	126	
11	141	144	94	120	164	145	148	110	197	228	189	155	112	51	77	61	65	73	91	132	131	125	113	148	126	
D	146	140	147	139	176	221	169	213	116	277	355	227	130	163	206	189	206	324	182	109	93	95	122	104	177	
13	95	142	121	130	102	79	65	72	88	91	172	149	114	93	48	41	63	169	175	146	144	72	102	95	107	
14	118	92	117	156	178	151	87	71	148	129	92	93	85	113	142	158	134	115	87	132	146	113	119	116	121	
Q	86	63	112	82	45	37	68	113	178	163	101	80	83	80	57	40	26	45	54	59	48	61	51	108	77	
Q	144	133	57	33	19	23	25	46	66	74	70	64	45	64	70	29	22	40	55	55	33	29	20	20	51	
17	35	55	56	56	14	19	39	101	142	208	319	251	230	177	24	106	81	85	66	78	68	69	69	94	102	
18	146	209	213	313	205	186	197	120	157	285	271	189	132	66	100	150	174	99	82	49	45	56	102	113	152	
19	76	68	82	86	67	114	130	250	377	428	406	343	354	102	77	89	76	104	120	169	154	160	109	158	171	
20	99	70	103	155	180	128	105	80	46	44	45	43	76	144	121	76	86	100	114	87	110	163	177	110	103	
21	122	91	69	99	83	93	110	117	95	108	131	75	95	82	70	63	55	54	96	78	60	80	111	107	89	
22	98	106	120	100	137	111	100	96	49	20	32	48	55	33	49	37	37	43	42	35	42	47	33	16	62	
Q	35	42	46	54	39	39	20	40	18	17	24	18	13	22	23	32	36	45	44	57	61	46	25	34	35	
Q	34	61	63	77	88	73	60	63	43	33	50	115	100	83	47	39	27	33	39	37	36	40	32	22	54	
Q	18	19	16	14	14	19	21	23	32	30	28	55	59	41	53	52	36	36	46	50	41	46	56	101	38	
D	103	115	115	150	204	236	321	339	179	53	215	138	92	69	145	310	345	146	113	203	241	211	208	144	183	
27	187	162	219	159	179	240	168	188	118	89	110	130	121	105	66	43	41	68	90	133	158	97	86	93	127	
28	120	134	111	98	84	161	120	97	77	64	134	75	67	36	70	68	111	163	220	105	118	176	260	200	119	
D	208	215	154	185	119	168	129	66	148	125	95	50	42	45	83	111	170	223	154	194	166	172	135	189	139	
30	132	180	121	199	114	117	164	101	89	112	157	111	104	114	114	190	156	180	134	135	140	179	76	126	135	
Mean	122	122	113	125	120	119	112	117	122	132	151	123	101	84	84	84	95	101	108	111	113	121	123	110	122	115
5Q Mean	63	63	58	52	41	38	38	57	67	63	54	66	60	58	50	38	29	39	47	51	43	44	36	57	50	
5D Mean	161	163	147	158	161	178	172	174	135	147	211	141	82	89	134	189	212	197	171	169	161	175	164	170	161	

AL Index (Provisional Hourly mean values, unit nT)

June

1994

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	-332	-310	-388	-623	-633	-457	-269	-309	-394	-327	-290	-605	-232	-190	-70	-111	-281	-255	-327	-194	-250	-425	-225	-380	-328
D	-408	-381	-235	-326	-312	-385	-402	-364	-171	-519	-514	-393	-148	-26	-50	-324	-316	-93	-268	-119	-236	-372	-324	-295	-291
D	-230	-351	-306	-372	-396	-257	-179	-261	-52	-25	-174	-297	-179	-268	-480	-408	-365	-211	-310	-222	-94	-184	-289	-341	-260
4	-364	-343	-203	-294	-292	-461	-329	-446	-310	-332	-254	-342	-270	-213	-157	-148	-375	-250	-52	-77	-168	-409	-124	-279	-270
5	-202	-143	-125	-69	-106	-385	-520	-479	-281	-93	-86	-223	-236	-26	-51	-73	-72	-338	-559	-242	-291	-362	-278	-434	-234
6	-335	-240	-117	-113	-112	-270	-168	-219	-84	-52	-328	-451	-181	-225	-299	-206	-106	-116	-112	-461	-375	-216	-194	-108	-212
7	-209	-249	-215	-170	-178	-247	-385	-317	-427	-322	-157	-228	-447	-289	-45	-31	-67	-208	-117	-99	-235	-247	-176	-207	-220
8	-127	-348	-298	-96	-42	-8	-34	-107	-174	-149	-277	-234	-102	-131	-166	-255	-90	-136	-115	-85	-129	-124	-137	-141	-146
9	-75	-10	-49	-209	-139	-111	-134	-220	-311	-374	-212	-68	-34	-51	-41	-60	-32	-2	-21	-36	-62	-102	-75	-43	-103
10	-192	-98	-28	-144	-255	-84	-21	-14	-94	-238	-495	-305	-60	-39	-9	-29	-66	-144	-71	-25	-176	-171	-134	-55	-123
11	-108	-258	-234	-203	-285	-263	-350	-258	-242	-434	-95	-452	-100	-42	-56	-20	-51	-129	-134	-107	-184	-198	-137	-257	-192
12	-336	-189	-244	-353	-199	-378	-294	-423	-281	-334	-596	-473	-338	-297	-378	-291	-209	-488	-255	-70	-44	-149	-243	-210	-295
13	-165	-238	-176	-249	-163	-53	-60	-42	-74	-41	-231	-200	-217	-74	-30	-18	-49	-420	-213	-97	-134	-63	-100	-189	-137
14	-215	-171	-147	-198	-318	-269	-233	-66	-129	-197	-82	-141	-93	-173	-230	-239	-190	-145	-50	-47	-187	-202	-153	-159	-168
Q	-121	-81	-112	-65	-33	-23	-27	-212	-394	-287	-120	-72	-91	-156	-74	-66	-31	-51	-104	-55	-36	-34	-42	-94	-99
16	-194	-172	-76	-30	-22	-15	-14	-15	-90	-94	-61	-47	-69	-57	-159	-57	-5	-11	-38	-30	-84	-56	-22	-18	-60
17	-27	-35	-52	-40	-39	-39	-39	-138	-96	-185	-226	-245	-364	-410	-107	-125	-107	-28	-33	-29	-30	-51	-34	-65	-106
18	-81	-178	-281	-352	-131	-177	-267	-56	-61	-283	-194	-220	-177	-82	-121	-147	-99	-7	-17	-18	4	-38	-127	-69	-132
19	-36	-19	-58	-98	-81	-65	-127	-239	-365	-408	-458	-179	-348	-120	-76	-34	-25	-102	-72	-48	-135	-57	-69	-244	-144
20	-157	-87	-82	-277	-289	-238	-204	-132	-58	-40	-29	-23	-59	-349	-421	-134	-145	-161	-189	-63	-104	-373	-325	-227	-173
21	-163	-133	-82	-171	-209	-230	-226	-298	-248	-364	-292	-191	-273	-84	-133	-87	-89	-91	-54	-22	-53	-74	-157	-173	-162
22	-138	-133	-142	-143	-309	-110	-145	-142	-124	-40	-69	-136	-187	-45	-32	-41	-12	-15	-48	-66	-55	-36	-29	-22	-92
Q	-22	-15	-13	-38	-31	-23	-20	-61	-30	-35	-30	-26	-20	-18	-14	-69	-90	-57	-29	-58	-125	-83	-42	-29	-41
Q	-20	-64	-38	-60	-167	-84	-27	-45	-36	-19	-18	-31	-85	-107	-38	-20	-17	-10	-15	-23	-25	-27	-28	-18	-43
Q	-16	-12	-12	-26	-31	-35	-43	-42	-29	-26	-29	-32	-48	-85	-59	-43	-92	-58	-82	-45	-17	-15	-25	-82	-41
D	-71	-69	-234	-55	-396	-284	-370	-468	-259	-46	-138	-326	-437	-74	-226	-629	-421	-95	-106	-154	-247	-138	-73	-109	-226
27	-225	-403	-351	-212	-163	-329	-524	-497	-117	-29	-88	-108	-270	-199	-70	-45	-73	-56	-184	-171	-91	-170	-116	-154	-193
28	-139	-183	-158	-103	-67	-129	-166	-73	-46	-41	-266	-171	-61	-28	-48	-306	-253	-205	-333	-67	-133	-105	-303	-609	-166
D	-539	-259	-133	-342	-416	-214	-212	-16	-150	-201	-130	-26	-25	-38	-107	-268	-407	-542	-155	-222	-245	-283	-239	-461	-235
30	-284	-200	-143	-316	-267	-259	-491	-206	-73	-107	-499	-316	-167	-93	-182	-296	-362	-353	-309	-118	-100	-340	-82	-154	-238
Mean	-184	-179	-157	-191	-202	-196	-209	-205	-173	-188	-212	-218	-177	-132	-130	-152	-149	-159	-145	-102	-134	-170	-143	-187	-171
5Q	-74	-68	-50	-43	-56	-36	-26	-75	-115	-92	-51	-41	-62	-84	-68	-51	-47	-37	-53	-42	-57	-43	-31	-48	-56
5D	-316	-249	-230	-289	-343	-303	-291	-306	-182	-225	-310	-303	-225	-140	-248	-384	-343	-285	-218	-157	-173	-225	-233	-283	-261

AE Index (Provisional Hourly mean values, unit nT)

June 1994

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
	481	454	572	852	792	627	494	542	572	524	475	743	350	278	181	176	379	380	456	314	431	631	369	599	486
D	591	536	393	431	449	528	545	538	339	763	743	560	207	93	117	499	459	203	429	274	394	598	501	505	446
D	396	544	472	586	569	382	281	344	121	65	340	422	270	372	652	572	565	397	559	408	241	360	470	548	414
	565	538	339	499	457	609	447	560	508	528	399	464	413	351	221	243	518	343	161	183	313	578	239	468	414
	357	257	230	129	220	588	611	588	365	148	65	371	317	88	107	117	119	526	788	466	562	616	421	667	363
	509	350	222	196	261	368	254	304	128	101	439	592	302	353	439	356	197	184	238	662	663	444	325	225	338
	379	410	339	291	346	375	489	435	662	488	265	353	593	370	84	64	130	296	216	236	375	375	303	351	343
	241	555	461	207	127	60	93	201	248	220	465	381	185	237	296	384	178	200	201	163	195	209	251	250	250
	154	59	118	320	248	187	259	361	437	561	302	99	48	67	103	123	90	46	70	84	100	145	139	131	177
	352	217	97	271	411	165	99	96	240	434	796	464	147	104	79	111	236	299	189	133	347	338	243	130	250
	251	403	329	323	449	408	500	370	440	663	285	609	214	95	135	82	116	203	226	240	315	324	251	406	318
D	482	330	392	493	376	600	465	637	399	613	952	702	469	461	584	481	415	812	439	180	138	245	365	315	473
	261	382	298	379	265	133	126	115	163	133	403	349	332	168	80	60	113	590	390	244	279	136	203	285	245
	333	263	264	356	498	421	321	138	278	327	175	235	179	287	374	399	325	262	137	180	334	316	272	276	290
Q	207	145	225	148	79	61	97	326	572	451	223	153	176	237	132	107	58	96	158	115	85	97	94	203	177
	339	305	133	65	42	39	40	61	157	169	132	112	115	123	230	87	28	52	94	86	118	87	43	39	112
Q	63	92	108	96	54	60	79	239	239	394	546	497	596	589	132	232	190	114	100	107	98	121	105	160	209
	228	388	495	665	337	364	465	177	220	569	466	410	311	149	222	297	273	107	100	67	40	96	230	183	286
	114	88	140	184	149	181	259	490	743	838	865	523	704	223	154	124	102	207	193	218	290	218	179	402	316
	257	158	187	433	470	367	309	213	106	85	75	67	136	494	544	212	233	262	304	151	214	536	503	337	277
	285	224	151	270	293	325	338	417	345	473	424	268	370	168	204	152	145	146	151	101	114	154	270	280	253
	237	240	263	244	447	222	247	240	174	61	103	185	244	79	82	79	50	59	91	102	97	84	63	40	156
	59	58	61	94	72	62	41	102	48	52	54	46	34	41	39	103	127	104	75	116	186	131	68	64	76
Q	54	125	102	137	256	157	88	109	81	52	68	147	186	190	85	60	45	44	55	60	61	67	61	42	97
Q	36	32	30	40	46	56	65	67	62	56	58	88	107	127	114	96	129	96	129	96	59	62	82	184	80
	174	184	350	206	601	521	692	807	439	100	355	465	531	144	372	941	768	243	220	358	489	350	281	254	410
D	413	566	570	371	343	570	694	686	236	119	200	239	392	306	137	89	116	125	275	304	250	268	203	248	322
	259	318	270	202	152	292	288	172	124	107	402	247	128	65	120	376	365	369	554	173	251	282	564	809	287
D	747	475	288	528	536	383	341	82	299	327	226	77	68	85	192	381	579	767	311	418	411	455	374	650	375
	416	381	265	517	382	378	656	308	164	220	658	429	273	209	297	487	519	535	443	253	241	520	160	281	375
Mean	308	302	272	317	324	316	322	324	296	321	365	343	279	218	216	249	252	268	258	216	256	294	254	311	287
5Q Mean	139	133	110	96	99	75	66	133	184	156	107	109	123	143	120	90	77	78	102	94	101	88	69	106	108
5D Mean	478	413	379	448	506	482	464	481	319	373	523	445	309	231	383	574	557	484	391	327	334	401	398	454	423

AO Index (Provisional Hourly mean values, unit nT)

June

1994

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	-91	-82	-101	-196	-237	-143	-21	-38	-108	-65	-52	-233	-56	-50	19	-23	-90	-64	-98	-36	-35	-108	-40	-80	-84
D	2	-111	-113	-38	-110	-88	-121	-129	-94	-1	-137	-142	-112	-44	19	8	-74	-85	7	-53	17	-39	-72	-73	-42	-68
D	3	-31	-78	-70	-79	-111	-66	-38	-88	7	7	-4	-85	-43	-81	-153	-122	-82	-12	-30	-17	26	-4	-53	-66	-53
D	4	-80	-73	-33	-44	-63	-156	-105	-166	-55	-67	-53	-110	-63	-37	-46	-26	-115	-78	27	13	-12	-119	-4	-45	-63
D	5	-23	-13	-10	-4	3	-91	-214	-185	-98	-19	-4	-37	-77	17	2	-14	-12	-75	-164	-9	-10	-53	-66	-100	-52
D	6	-80	-65	-6	-15	18	-85	-41	-67	-20	-2	-108	-155	-29	-48	-79	-27	-8	-24	6	-129	-43	5	-31	3	-43
D	7	-19	-43	-44	-24	-5	-59	-141	-99	-95	-77	-24	-51	-150	-104	-3	0	-2	-59	8	18	-47	-59	-24	-30	-48
D	8	-6	-70	-67	7	20	21	11	-7	-50	-39	-44	-43	-9	-12	-18	-63	-1	-35	-14	-3	-30	-18	-11	-15	-21
D	9	1	18	9	-48	-14	-18	-4	-39	-92	-93	-60	-19	-9	-17	9	1	12	20	13	5	-11	-28	-5	21	-14
D	10	-16	10	20	-8	-49	-1	27	32	24	-21	-97	-73	12	12	29	25	51	4	22	41	-2	-1	-12	9	1
D	11	16	-56	-69	-41	-59	-58	-100	-73	-22	-102	46	-147	5	4	10	19	7	-27	-21	12	-26	-35	-11	-54	-32
D	12	-93	-23	-47	-106	-11	-78	-62	-104	-82	-28	-119	-122	-103	-66	-85	-50	-1	-81	-36	19	24	-26	-60	-52	-58
D	13	-35	-46	-26	-58	-29	13	2	14	6	24	-29	-24	-51	9	8	10	7	-124	-18	24	4	4	1	-46	-15
D	14	-47	-38	-14	-20	-69	-58	-72	2	9	-33	4	-23	-3	-29	-42	-39	-27	-14	18	42	-20	-43	-16	-20	-23
Q	15	-17	-8	0	8	5	6	19	-49	-107	-61	-9	3	-3	-36	-8	-12	-2	-2	-24	2	5	13	4	6	-11
Q	16	-24	-19	-9	1	0	3	5	15	-12	-9	4	8	-11	3	-43	-13	8	14	8	12	-25	-12	0	1	-4
Q	17	4	9	1	7	-11	-9	0	-18	22	11	45	2	-66	-115	-41	-8	-12	28	16	24	18	8	17	14	-2
Q	18	32	15	-32	-19	37	4	-34	31	47	0	37	-14	-22	-7	-9	1	37	45	32	15	25	8	-11	21	10
Q	19	19	24	11	-5	-6	24	0	5	5	9	-25	81	3	-8	0	27	25	0	23	60	9	50	19	-42	13
Q	20	-28	-7	10	-60	-53	-48	-25	-6	2	8	9	8	-101	-149	-28	-29	-29	-29	-36	12	2	-104	-73	-57	-35
Q	21	-20	-20	-6	-35	-62	-68	-57	-89	-75	-127	-79	-57	-88	0	-31	-11	-16	-18	20	27	3	3	-22	-32	-36
Q	22	-19	-13	-10	-21	-86	0	-22	-23	-36	-9	-18	-43	-65	-5	8	-1	12	13	-2	-14	-5	4	1	-2	-15
Q	23	6	12	16	7	3	7	0	-10	-5	-8	-2	-3	-2	1	4	-17	-26	-5	7	0	-31	-17	-7	2	-2
Q	24	6	-1	12	8	-39	-5	16	8	3	6	15	41	7	-11	4	9	4	11	11	6	5	6	1	2	5
Q	25	1	3	1	-5	-8	-7	-10	-8	1	1	0	11	5	-21	-2	4	-27	-10	-17	2	11	14	14	8	-1
D	26	15	22	-59	47	-95	-23	-23	-63	-39	3	38	-93	-172	-2	-39	-158	-37	25	4	24	-2	36	66	17	-21
D	27	-18	-120	-65	-25	7	-43	-177	-154	0	29	10	11	-73	-45	-1	0	-15	5	-45	-18	33	-35	-14	-30	-32
D	28	-9	-23	-22	-2	8	15	-23	11	14	11	-65	-47	2	4	10	-118	-70	-20	-55	18	-7	35	-21	-203	-23
D	29	-164	-21	10	-77	-147	-22	-40	24	0	-37	-17	11	8	3	-11	-77	-117	-158	0	-13	-39	-54	-51	-135	-47
D	30	-75	-9	-10	-58	-76	-70	-163	-51	7	2	-170	-101	-30	10	-33	-52	-101	-85	-86	8	20	-79	-2	-14	-51
Mean		-30	-27	-21	-32	-40	-38	-48	-43	-25	-27	-30	-47	-37	-23	-22	-27	-23	-24	-16	5	-6	-22	-16	-32	-27
5Q Mean		-5	-2	4	3	-7	0	6	-8	-24	-14	1	12	0	-12	-9	-5	-8	1	-3	4	-7	0	2	3	-2
5D Mean		-76	-42	-40	-65	-90	-62	-58	-65	-23	-38	-48	-80	-70	-25	-56	-96	-64	-43	-23	6	-6	-24	-34	-55	-49

AU Index (Provisional Hourly mean values, unit nF)

July 1994

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	186	171	123	272	213	97	200	166	193	215	108	177	79	89	69	35	39	86	99	176	155	205	261	98	146
D 2	116	77	64	193	217	217	178	196	214	336	199	108	48	67	125	49	78	115	120	125	185	160	143	221	148
3	131	96	92	54	82	109	74	138	168	177	106	88	116	43	23	30	28	37	53	52	71	80	147	236	93
4	99	49	84	109	138	145	33	21	11	28	25	57	43	67	57	99	92	81	63	137	97	73	75	97	74
5	56	79	52	35	44	48	67	61	59	31	41	36	34	23	23	37	52	43	34	39	41	46	47	87	46
6	80	83	52	33	73	54	98	106	127	96	50	66	62	80	148	51	27	35	42	49	60	112	107	78	74
7	69	77	146	273	166	69	105	169	132	86	95	150	159	206	148	129	90	58	88	127	81	102	82	75	120
8	55	63	82	73	59	49	36	15	43	9	26	23	40	46	36	37	28	42	49	42	34	22	13	12	39
9	9	15	32	17	32	44	48	54	55	40	23	23	25	27	45	48	38	47	49	51	39	28	25	19	35
Q 10	25	15	16	23	28	32	55	59	41	20	13	6	19	57	56	46	41	40	35	31	35	24	24	30	32
11	50	34	37	34	24	21	21	27	19	23	17	9	15	28	40	64	61	31	26	24	24	29	32	31	30
12	50	82	71	62	51	26	20	16	13	20	21	22	30	34	35	30	24	24	23	29	35	37	37	34	34
13	29	22	27	38	41	37	34	21	29	24	26	27	42	41	47	53	38	18	24	33	51	58	42	35	35
14	36	36	58	62	90	209	184	94	57	188	202	227	387	190	242	436	159	100	127	141	204	387	253	251	180
D 15	158	194	181	148	161	83	108	80	96	46	87	58	44	95	83	67	46	66	64	86	112	182	169	200	109
16	201	170	222	224	104	110	63	62	167	281	256	198	145	190	86	127	121	111	96	161	164	164	149	166	156
17	101	166	163	118	209	111	64	93	105	174	254	88	167	177	90	53	74	66	59	83	99	142	145	119	122
18	67	83	125	83	100	61	28	104	147	183	169	61	124	108	72	46	28	23	47	47	91	63	64	65	83
19	94	85	64	70	108	182	133	118	91	71	95	95	120	114	39	19	24	53	91	124	49	72	103	86	87
20	49	26	34	18	8	25	43	40	52	53	107	106	154	93	56	27	31	24	27	31	22	16	11	17	45
21	51	90	101	58	96	140	68	59	104	80	63	96	188	138	24	31	36	36	39	58	74	68	58	73	76
22	96	75	107	82	79	103	146	115	65	63	78	43	30	43	38	21	18	41	51	48	42	40	32	26	62
23	35	27	76	127	93	65	37	20	40	125	83	44	50	86	86	62	48	48	60	89	128	89	51	49	67
24	28	28	40	59	53	42	61	63	43	23	46	31	16	16	35	18	32	57	47	28	41	91	95	72	44
25	91	209	135	176	179	169	77	78	101	53	47	60	100	121	83	62	37	51	46	81	90	110	82	41	95
26	29	23	25	52	83	62	41	48	39	33	24	38	43	56	35	17	21	22	24	29	19	15	24	44	35
27	93	102	131	202	288	147	51	50	18	11	29	27	15	26	46	41	24	28	68	74	152	233	153	84	87
28	77	150	176	225	148	128	103	59	53	112	84	164	113	76	67	50	52	139	243	193	194	185	133	73	125
29	57	68	124	179	155	156	112	79	44	106	83	39	36	39	80	120	125	84	84	50	128	121	143	115	97
30	73	154	161	125	52	40	89	98	64	27	24	81	61	98	119	36	29	36	43	67	83	154	114	113	81
31	148	122	95	51	102	50	39	23	47	99	76	82	35	48	61	33	35	30	28	53	76	158	144	92	72
Mean	78	86	93	105	105	91	77	75	78	91	82	75	81	81	70	63	50	53	62	76	86	105	95	88	81
5Q Mean	37	41	44	49	52	41	37	31	33	21	22	23	34	46	41	36	30	29	31	32	34	31	28	31	35
5D Mean	139	129	129	179	157	143	146	119	145	213	170	153	140	126	121	142	88	95	101	137	164	219	195	187	147

AL Index (Provisional Hourly mean values, unit nT)

July

1994

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	-372	-613	-362	-331	-320	-112	-302	-510	-338	-439	-189	-346	-145	-128	-59	-36	-25	-83	-143	-269	-182	-144	-533	-193	-257
D	-168	-149	-124	-226	-525	-484	-579	-395	-508	-596	-503	-312	-94	-186	-425	-224	-240	-223	-166	-121	-192	-259	-292	-431	-309
Q	-216	-92	-190	-92	-135	-258	-106	-237	-322	-389	-339	-160	-187	-83	-93	-25	-44	-17	-28	-19	-106	-97	-166	-389	-158
Q	-104	-18	-52	-213	-229	-200	-154	-44	-24	-17	-15	-29	-65	-144	-248	-255	-161	-156	-93	-130	-120	-86	-97	-159	-117
Q	-47	-117	-142	-35	-42	-30	-48	-54	-32	-27	-32	-44	-40	-31	-41	-72	-180	-165	-67	-30	-33	-34	-39	-45	-60
Q	-51	-55	-114	-22	-64	-44	-50	-258	-143	-256	-44	-43	-79	-115	-176	-44	-26	-41	-15	-18	-55	-58	-29	-32	-76
Q	-24	-33	-107	-427	-223	-41	-31	-179	-143	-70	-73	-173	-570	-688	-408	-269	-186	-97	-87	-56	-68	-61	-161	-136	-180
Q	-39	-50	-164	-122	-77	-26	-28	-29	-23	-71	-73	-38	-59	-117	-95	-65	-29	-24	-22	-20	-28	-22	-22	-25	-53
Q	-24	-18	-15	-6	-11	-24	-34	-28	-30	-32	-32	-25	-41	-44	-40	-61	-159	-80	-5	-12	-9	-24	-24	-31	-31
Q	-21	-13	-4	-1	-16	-25	-32	-30	-72	-57	-34	-32	-35	-53	-25	-99	-126	-103	-80	-53	-38	-35	-30	-25	-43
Q	-31	-35	-30	-37	-28	-9	-14	-23	-24	-30	-32	-31	-24	-18	-24	-59	-84	-44	-20	-22	-26	-31	-38	-32	-31
Q	-33	-94	-43	-53	-28	-34	-41	-32	-27	-26	-30	-22	-13	-10	-14	-21	-22	-17	-16	-20	-27	-31	-28	-21	-29
Q	-24	-15	-6	-26	-30	-20	-20	-26	-23	-22	-24	-20	-19	-16	-14	-34	-51	-23	-20	-32	-32	-94	-63	-33	-29
Q	-24	-29	-15	-23	-21	-107	-121	-45	-16	-85	-289	-92	-455	-354	-294	-536	-264	-53	-87	-52	-103	-440	-274	-342	-172
D	-421	-426	-200	-195	-173	-107	-112	-128	-187	-58	-43	-47	-52	-57	-17	-24	-11	-37	-23	-44	-86	-201	-425	-418	-146
D	-795	-665	-524	-506	-213	-225	-92	-90	-172	-737	-768	-334	-418	-457	-258	-223	-123	-64	-79	-209	-291	-239	-392	-290	-340
D	-186	-402	-258	-272	-335	-300	-248	-163	-132	-285	-360	-232	-321	-443	-161	-90	-91	-188	-131	-70	-76	-178	-237	-261	-226
Q	-248	-119	-399	-377	-202	-113	-56	-136	-246	-303	-377	-193	-217	-196	-190	-78	-107	-79	-64	-31	-205	-116	-60	-102	-176
Q	-309	-193	-182	-150	-153	-221	-453	-174	-94	-75	-225	-174	-217	-274	-58	-44	-32	-60	-133	-185	-66	-102	-295	-232	-171
Q	-78	-24	-62	-38	-23	-30	-30	-62	-31	-30	-48	-198	-294	-142	-37	-45	-111	-124	-30	-16	-25	-26	-32	-40	-66
Q	-54	-151	-182	-44	-44	-130	-213	-48	-40	-245	-132	-86	-283	-287	-56	-24	-56	-40	-36	-68	-67	-55	-84	-150	-107
Q	-151	-135	-136	-136	-252	-263	-190	-107	-58	-73	-167	-109	-61	-93	-83	-30	-26	-43	-78	-125	-91	-80	-68	-65	-109
Q	-40	-36	-43	-88	-191	-196	-52	-52	-28	-89	-209	-63	-31	-76	-112	-120	-49	-74	-72	-83	-177	-38	-28	-27	-82
Q	-36	-30	-48	-63	-80	-41	-40	-19	-18	-27	-36	-30	-37	-22	-16	-21	-35	-76	-80	-35	-33	-63	-160	-76	-47
Q	-85	-326	-145	-133	-151	-115	-24	-35	-140	-201	-47	-31	-62	-173	-69	-135	-72	-39	-22	-204	-182	-147	-187	-31	-115
Q	-16	-8	-17	-52	-118	-106	-31	-44	-55	-39	-42	-139	-70	-51	-57	-35	-35	-32	-30	-90	-53	-42	-36	-21	-51
Q	-70	-116	-178	-402	-709	-299	-62	-52	-32	-33	-29	-37	-28	-23	-16	-15	-53	-49	-56	-35	-297	-259	-235	-69	-131
Q	-47	-278	-491	-439	-146	-134	-108	-111	-47	-66	-118	-224	-179	-81	-41	-34	-86	-201	-321	-295	-72	-182	-235	-46	-166
Q	-56	-79	-314	-466	-350	-239	-266	-131	-42	-220	-129	-104	-23	-27	-78	-404	-393	-180	-90	-27	-126	-281	-333	-214	-190
Q	-79	-367	-375	-283	-52	-83	-118	-176	-82	-19	-17	-65	-83	-176	-264	-224	-58	-37	-54	-61	-57	-348	-221	-182	-145
Q	-249	-226	-123	-45	-118	-73	-42	-29	-14	-48	-111	-268	-103	-119	-78	-147	-127	-62	-32	-52	-53	-216	-290	-146	-115
Mean	-132	-158	-162	-171	-163	-131	-119	-111	-101	-150	-147	-119	-138	-151	-114	-112	-98	-79	-70	-80	-96	-128	-164	-137	-126
5Q Mean	-26	-36	-46	-50	-53	-42	-30	-32	-40	-43	-40	-50	-39	-49	-41	-50	-52	-39	-33	-43	-35	-44	-35	-25	-40
5D Mean	-356	-376	-245	-256	-250	-207	-241	-233	-244	-383	-358	-226	-232	-236	-210	-208	-132	-92	-99	-139	-170	-256	-383	-334	-244

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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	558	784	486	604	534	210	503	676	532	654	298	523	225	217	129	71	66	170	244	446	338	350	795	292	404
D 2	285	227	188	419	743	703	758	591	723	933	702	421	143	253	550	274	320	339	288	247	378	420	436	652	458
3	348	190	283	147	219	368	182	377	491	567	445	249	304	126	117	56	73	54	83	71	178	178	315	627	252
4	205	68	136	322	368	347	188	66	36	46	41	88	108	212	306	355	254	238	157	268	218	159	173	257	192
5	105	198	195	71	87	79	117	116	92	58	74	81	75	55	66	109	233	209	102	70	75	82	88	133	107
6	132	140	167	56	138	99	150	365	272	354	96	111	142	195	325	95	54	78	58	68	116	171	136	112	151
7	94	110	254	700	391	111	137	350	277	158	170	324	730	895	557	400	278	156	176	184	150	164	244	212	301
8	95	114	246	196	136	76	66	45	67	80	100	62	99	163	131	103	59	68	72	64	63	45	36	37	93
Q 9	34	34	49	25	45	69	83	84	86	72	56	49	67	72	85	111	199	78	56	65	49	53	49	44	67
Q 10	47	30	21	25	45	58	89	91	115	78	47	39	54	111	82	145	169	144	117	85	75	60	54	57	77
11	83	70	69	72	53	31	37	51	43	53	50	41	40	47	65	123	145	77	47	47	50	60	71	64	62
12	85	177	115	116	80	61	61	48	41	47	51	45	44	45	51	51	47	42	40	50	63	68	66	57	65
13	54	38	35	64	71	58	55	48	52	47	50	48	62	58	61	87	89	42	45	67	84	154	105	69	64
14	60	66	73	86	111	317	306	140	74	274	493	320	842	545	536	973	424	155	216	195	308	828	528	593	353
D 15	580	621	382	343	335	191	221	210	284	105	132	106	97	152	100	91	57	104	88	132	199	384	594	619	255
D 16	997	835	746	731	318	337	156	153	340	1019	1024	533	563	648	346	351	245	176	177	372	456	404	542	458	497
17	287	568	422	390	545	412	313	257	239	460	614	321	488	620	251	143	166	255	192	154	177	321	383	381	348
18	315	203	524	461	303	175	86	242	394	487	546	255	342	305	262	125	136	103	112	79	297	181	125	168	259
19	404	279	247	221	262	403	586	292	186	147	320	269	338	388	99	64	56	114	225	310	116	174	400	319	259
20	127	51	98	57	31	55	73	103	83	84	156	304	449	235	94	74	143	150	59	49	47	44	44	58	111
21	105	241	283	103	141	271	282	108	145	327	197	184	472	426	82	56	93	77	77	127	143	125	143	224	185
22	248	210	243	218	332	367	337	223	123	137	247	154	91	136	121	52	44	86	131	173	134	121	101	91	172
23	76	64	120	215	285	261	89	73	69	215	294	108	82	162	199	183	97	124	134	174	306	128	80	77	151
24	65	59	89	123	134	83	101	83	61	51	82	61	54	39	51	40	68	135	129	64	75	155	256	148	92
25	177	536	282	310	332	284	102	114	243	256	95	92	163	294	153	198	110	91	69	286	274	258	270	73	211
Q 26	46	32	43	105	201	169	73	93	95	73	67	178	115	109	94	53	57	55	56	120	73	58	60	67	87
27	164	219	310	605	999	447	114	104	51	46	58	66	44	50	64	57	78	78	125	110	450	493	389	154	220
28	125	429	668	665	295	262	212	172	102	180	203	389	292	158	109	86	140	342	565	489	267	368	369	119	292
29	115	148	439	645	506	395	379	211	88	327	214	145	61	68	159	525	519	266	176	77	255	403	477	331	289
30	152	521	537	409	105	124	208	275	147	47	43	147	145	275	384	261	89	75	98	130	142	504	336	295	227
31	398	348	218	96	222	124	82	53	62	148	188	350	139	168	140	180	164	93	60	106	129	375	435	238	188
Mean	211	245	257	277	269	224	198	187	181	242	230	195	221	233	186	177	150	134	134	157	183	235	261	226	209
5Q Mean	65	78	92	101	106	84	68	65	74	65	63	74	74	97	83	87	84	70	66	77	71	77	64	57	77
5D Mean	496	506	375	436	408	351	388	354	390	597	529	380	374	363	332	352	222	188	202	278	335	477	579	522	393

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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	-92	-221	-119	-29	-52	-7	-50	-171	-72	-111	-40	-84	-32	-19	4	0	6	1	-21	-46	-13	29	-136	-47	-55	
D	-25	-35	-29	-16	-153	-133	-200	-99	-146	-129	-151	-101	-22	-58	-149	-87	-81	-53	-22	1	-3	-48	-73	-104	-80	
3	-42	2	-48	-18	-26	-73	-15	-49	-76	-105	-116	-35	-35	-19	-34	2	-8	9	11	16	-17	-8	-9	-75	-32	
4	-2	14	15	-51	-45	-27	-60	-11	-6	4	4	13	-10	-38	-95	-77	-34	-37	-15	3	-11	-6	-10	-30	-21	
5	4	-18	-44	0	1	8	9	2	13	1	4	-3	-2	-4	-8	-17	-64	-60	-15	3	3	5	3	20	-6	
6	13	13	-31	5	4	4	23	-75	-8	-79	2	11	-8	-17	-13	3	0	-3	12	14	2	26	38	22	-1	
7	22	21	19	-76	-28	13	36	-4	-5	7	11	-11	-205	-240	-129	-69	-48	-19	0	34	5	20	-39	-29	-29	
Q	7	6	-40	-24	-9	11	3	-7	9	-30	-23	-7	-9	-35	-29	-13	0	8	12	10	2	0	-3	-6	-7	
9	-7	-1	7	4	9	8	6	12	11	3	-4	0	-8	-8	2	-6	-60	8	21	18	14	1	0	-2	1	
Q	1	0	5	10	5	2	10	13	-15	-18	-9	-12	-7	1	14	-26	-42	-31	-22	-11	-1	-4	-2	2	-5	
11	8	0	3	-1	-2	4	2	1	-2	-3	-7	-10	-4	4	7	2	-11	-6	2	1	0	0	-2	0	0	
Q	12	8	-5	13	4	11	-3	-9	-6	-2	-4	0	7	11	9	3	0	2	2	3	3	2	4	5	2	
Q	13	2	2	10	5	8	6	2	2	0	0	3	10	11	15	8	-6	-2	2	0	8	-17	-9	1	2	
D	14	5	3	21	19	34	50	30	23	20	50	43	67	-34	-81	-25	-49	-52	23	19	43	49	-26	-10	-45	3
D	15	-131	-115	-9	-23	-5	-12	-2	-23	-45	-5	21	5	-3	18	32	21	17	14	20	20	12	-9	-127	-108	-18
D	16	-296	-247	-150	-140	-54	-57	-14	-14	-2	-227	-255	-67	-136	-132	-85	-47	-1	22	8	-24	-63	-37	-121	-61	-91
17	-41	-117	-47	-77	-62	-94	-91	-34	-13	-55	-52	-71	-76	-132	-35	-18	-8	-60	-36	6	10	-17	-45	-70	-51	
18	-89	-17	-136	-146	-50	-26	-13	-15	-49	-59	-103	-65	-46	-43	-59	-15	-39	-27	-8	7	-56	-26	2	-18	-46	
19	-106	-52	-58	-39	-22	-19	-159	-28	-1	-1	-64	-39	-48	-79	-9	-11	-3	-3	-20	-30	-8	-14	-95	-72	-41	
20	-14	0	-13	-9	-7	-2	5	-11	9	11	29	-45	-69	-24	9	-9	-40	-49	-1	6	-1	-4	-10	-10	-10	
21	-1	-30	-40	6	25	4	-71	5	31	-82	-33	5	-47	-73	-15	3	-10	-2	1	-4	3	6	-12	-37	-15	
22	-27	-29	-14	-26	-86	-80	-21	3	3	-5	-43	-32	-15	-24	-21	-4	-3	0	-13	-37	-23	-19	-17	-18	-23	
23	-2	-3	16	19	-48	-65	-6	-15	5	18	-62	-9	9	4	-12	-28	0	-12	-5	2	-24	25	11	10	-7	
24	-3	0	-3	-2	-12	0	9	21	11	-1	4	0	-10	-3	8	-1	-1	-9	-16	-2	3	13	-32	-1	-1	
25	3	-58	-4	20	13	26	25	20	-19	-73	0	14	18	-25	6	-36	-17	6	11	-61	-45	-18	-52	4	-10	
Q	26	5	6	3	0	-17	-21	4	1	-7	-3	-8	-50	-13	2	-10	-8	-6	-4	-3	-30	-16	-13	-5	11	-7
27	11	-6	-23	-99	-209	-75	-5	-1	-6	-10	0	-4	-5	1	14	12	-14	-10	5	18	-72	-12	-40	7	-22	
28	14	-63	-157	-106	0	-3	-2	-25	3	22	-17	-29	-33	-2	12	7	-16	-30	-38	-50	60	1	-51	13	-20	
29	0	-5	-94	-143	-96	-41	-76	-26	0	-56	-22	-31	6	5	0	-141	-133	-47	-3	10	0	-79	-94	-48	-46	
30	-2	-106	-106	-78	0	-21	-14	-38	-9	3	3	7	-10	-38	-72	-93	-14	0	-5	2	12	-96	-52	-33	-32	
31	-50	-51	-14	2	-7	-11	-1	-3	16	24	-17	-92	-33	-34	-8	-56	-45	-15	-1	0	11	-29	-72	-26	-21	
Mean	-26	-35	-34	-32	-28	-20	-20	-17	-11	-29	-32	-21	-28	-34	-21	-24	-23	-12	-3	-2	-5	-11	-34	-24	-22	
5Q Mean	4	1	-1	-1	-1	0	2	0	-3	-10	-8	-13	-2	-2	0	-7	-10	-5	-1	-5	0	-6	-3	2	-3	
5D Mean	-107	-123	-57	-37	-46	-31	-47	-56	-49	-84	-93	-36	-45	-54	-44	-32	-22	1	0	-1	-3	-18	-93	-73	-48	

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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	80	43	79	88	53	48	62	89	25	32	12	15	15	33	12	23	20	37	47	64	72	49	46	52	46
Q	62	39	43	38	29	42	37	45	62	36	23	37	25	20	14	19	24	18	20	16	32	32	34	26	32
3	26	23	11	16	41	30	47	51	40	26	22	19	20	25	20	18	26	30	21	39	49	36	23	36	29
Q	32	16	20	19	22	20	31	28	16	16	29	25	34	43	57	58	30	24	27	23	17	14	15	16	26
5	32	28	38	38	27	54	70	75	83	65	32	30	45	56	54	56	24	30	47	44	36	50	64	43	47
6	45	51	80	77	76	47	101	109	103	53	32	46	57	75	33	16	35	48	53	65	61	72	69	55	61
Q	25	13	14	9	20	47	69	49	27	20	20	30	29	74	62	67	33	14	21	23	18	32	61	74	36
Q	38	15	11	7	14	17	22	40	46	34	21	18	16	14	14	16	20	30	18	28	16	18	17	16	21
9	17	30	30	48	53	64	71	69	58	39	27	24	25	30	51	77	41	42	44	68	106	127	99	91	55
10	101	96	120	111	100	67	88	116	120	85	67	128	239	199	89	104	160	288	356	289	134	54	44	90	135
D	68	104	73	87	90	136	146	160	81	102	79	122	117	121	73	59	101	126	70	65	65	94	160	155	102
D	163	119	127	161	150	150	145	95	94	70	73	112	207	77	40	36	69	171	219	231	192	115	129	96	127
D	113	138	113	70	93	232	186	118	53	39	89	52	97	150	232	247	275	157	192	132	52	60	58	142	129
D	63	61	105	91	133	119	253	237	233	219	132	196	168	152	104	44	60	208	231	100	36	29	64	141	133
D	165	85	61	51	53	32	27	27	18	44	113	202	206	134	91	75	47	34	32	83	135	149	207	72	89
16	63	103	92	40	47	29	53	64	83	129	224	91	98	70	31	28	32	32	32	56	148	140	119	134	81
17	75	32	18	51	75	148	55	98	54	34	24	37	52	52	65	67	57	78	48	30	28	23	41	30	53
18	30	32	29	35	48	56	61	35	73	48	29	83	147	125	113	62	55	34	35	39	34	21	26	35	53
19	58	67	60	37	52	66	91	112	47	22	20	20	17	14	19	30	37	22	29	29	27	27	25	37	40
20	31	28	34	84	85	86	65	61	26	29	43	24	18	20	25	41	69	75	62	61	106	106	126	157	61
21	261	263	235	133	51	27	20	17	18	25	21	23	33	47	94	201	108	32	39	52	28	45	27	25	76
22	75	73	35	47	61	38	30	30	29	22	19	21	29	65	64	66	69	30	27	40	75	129	206	234	63
23	162	114	155	170	108	122	83	75	44	34	28	20	22	20	20	30	24	28	31	44	33	22	17	20	59
24	19	16	18	21	46	81	70	39	29	22	19	20	17	9	13	14	26	29	18	30	39	46	35	28	29
25	44	55	60	75	116	123	70	45	37	64	140	239	166	69	49	37	38	39	97	59	28	28	17	22	72
26	23	22	31	42	43	64	60	69	62	30	24	38	19	19	14	18	20	19	20	18	27	44	61	45	35
27	19	75	107	86	99	106	87	88	74	24	19	11	19	29	31	18	34	46	36	66	93	52	35	53	54
28	55	30	61	83	71	83	122	64	79	27	16	20	9	4	11	16	27	27	25	29	20	18	19	18	39
29	26	28	39	49	35	32	57	75	47	38	25	31	36	57	46	27	20	23	21	18	22	24	52	69	37
Q	62	38	38	52	25	32	45	52	57	19	33	25	29	21	17	28	34	53	51	40	33	27	28	40	37
31	36	24	25	33	39	33	28	20	28	27	25	25	40	69	49	28	27	21	24	21	23	36	84	162	39
Mean	66	60	63	62	63	71	75	72	59	47	47	57	66	61	51	52	52	59	64	61	57	55	64	71	61
5Q Mean	43	24	25	25	22	31	40	42	41	25	25	27	26	34	32	37	28	27	27	26	23	24	31	34	30
5D Mean	114	101	95	92	103	133	151	127	95	94	97	136	159	126	108	92	110	139	148	122	96	89	123	121	115

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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	-36	-27	-131	-206	-69	-19	-22	-98	-179	-119	-114	-76	-31	-21	-15	-34	-45	-34	-52	-36	-47	-17	-21	-58	-63
Q	2	-139	-98	-65	-40	-6	-30	-21	-25	-53	-52	-87	-125	-64	-20	-19	-17	-17	-12	-11	-17	-29	-26	-24	-28	-43
Q	3	-21	-1	-9	-6	-13	-14	-13	-26	-58	-122	-21	-24	-21	-15	-16	-12	-17	-14	-26	-46	-45	-21	-25	-25	-25
Q	4	-14	-5	1	0	-4	-8	-29	-32	-24	-29	-24	-27	-77	-83	-45	-141	-81	-6	-14	-24	-34	-27	-18	-13	-32
Q	5	-2	8	9	2	-4	-6	-39	-43	-44	-141	-134	-51	-15	-30	-67	-76	-12	-2	-16	-58	-45	-64	-18	-36	
Q	6	-9	-50	-32	-177	-94	-31	-65	-156	-90	-77	-64	-59	-45	-99	-86	-22	-37	-44	-88	-75	-83	-47	-52	-21	-67
Q	7	-3	-6	-5	-11	-16	-15	-32	-35	-26	-28	-28	-30	-27	-109	-66	-129	-59	-93	-18	-21	-27	-24	-27	-80	-38
Q	8	-24	-1	0	-2	-6	-10	-13	-20	-32	-31	-24	-25	-27	-25	-29	-31	-31	-31	-21	-26	-25	-18	-14	-20	-20
Q	9	-6	-5	4	-75	-76	-50	-44	-25	-31	-26	-35	-42	-33	-25	-26	-39	-72	-35	-24	-86	-148	-73	-64	-51	-46
Q	10	-81	-70	-227	-131	-53	-19	-20	-137	-178	-46	-31	-60	-370	-352	-79	-75	-173	-402	-320	-237	-124	-44	-36	-83	-139
D	11	-109	-82	-199	-201	-113	-142	-138	-164	-73	-30	-70	-133	-177	-343	-136	-69	-74	-102	-65	-71	-39	-75	-258	-237	-129
D	12	-427	-134	-146	-404	-313	-362	-268	-44	-82	-128	-117	-106	-456	-134	-33	-35	-57	-290	-418	-289	-342	-71	-187	-113	-206
D	13	-144	-245	-338	-110	-52	-461	-601	-76	-9	-17	-60	-106	-94	-226	-602	-433	-365	-128	-119	-212	-46	-62	-104	-348	-207
D	14	-286	-108	-200	-526	-553	-312	-486	-579	-582	-461	-654	-525	-515	-468	-354	-124	-58	-297	-259	-83	-6	-24	-31	-212	-321
D	15	-484	-374	-106	-29	-104	-40	-161	-182	-117	-120	-304	-603	-544	-315	-241	-63	-29	-46	-40	-198	-503	-372	-505	-197	-237
D	16	-6	-34	-148	-111	-43	-26	-43	-67	-183	-236	-294	-178	-184	-88	-6	-19	-11	-46	-63	-157	-361	-176	-153	-327	-123
D	17	-63	-23	-25	-44	-135	-200	-261	-83	-18	-20	-104	-96	-95	-118	-115	-73	-167	-320	-55	-35	-15	-16	-21	-29	-89
D	18	-47	-50	-44	-67	-92	-164	-47	-6	-27	-200	-215	-148	-251	-333	-270	-145	-93	-93	-60	-46	-71	-25	-23	-96	-109
D	19	-108	-150	-149	-49	-57	-114	-100	-118	-61	-59	-33	-19	-18	-21	-25	-40	-41	-51	-70	-42	-97	-39	-23	-18	-62
D	20	-17	-22	-7	-211	-204	-161	-62	-157	-91	-46	-181	-137	-59	-17	-23	-38	-197	-218	-172	-61	-147	-245	-129	-163	-115
D	21	-166	-203	-160	-69	-16	-18	-19	-13	-16	-20	-24	-24	-21	-30	-188	-434	-284	-35	-19	-50	-47	-38	-33	-28	-81
D	22	-69	-144	-28	-23	-87	-61	-14	-51	-19	-19	-117	-27	-27	-65	-143	-160	-216	-48	-11	-14	-48	-319	-436	-278	-101
D	23	-187	-114	-200	-252	-79	-63	-57	-32	-39	-55	-97	-24	-16	-14	-23	-52	-120	-26	-54	-30	-22	-24	-23	-19	-68
D	24	-12	-8	-6	-8	-19	-76	-23	-10	-10	-15	-17	-19	-20	-23	-17	-18	-20	-23	-19	-32	-23	-88	-64	-14	-24
D	25	-18	-51	-33	-18	-327	-399	-247	-46	-16	-44	-261	-479	-195	-53	-37	-26	-54	-58	-121	-76	-23	-18	-25	-23	-110
D	26	-21	-17	-17	-56	-63	-63	-160	-69	-20	-88	-205	-16	-10	-16	-25	-25	-19	-15	-13	-9	-18	-26	-27	-21	-42
D	27	-11	-115	-256	-76	-80	-115	-130	-110	-38	-23	-54	-32	-94	-37	-27	-23	-53	-67	-41	-49	-187	-91	-19	-31	-73
D	28	-62	-22	-32	-267	-239	-207	-361	-290	-150	-90	-28	-18	-30	-44	-17	-29	-38	-31	-117	-62	-22	-15	-15	-12	-92
D	29	-8	-10	-25	-28	-5	-6	-10	-197	-135	-15	-27	-31	-51	-76	-44	-15	-17	-19	-17	-23	-39	-44	-71	-68	-41
D	30	-20	-10	-16	-12	-14	-16	-19	-112	-108	-74	-173	-39	-24	-23	-20	-31	-56	-131	-101	-43	-21	-22	-25	-40	-48
D	31	-18	-9	-5	-38	-6	-13	-14	-19	-14	-21	-18	-18	-23	-82	-180	-195	-101	-36	-15	-18	-26	-23	-54	-193	-47
Mean		-84	-70	-83	-104	-94	-103	-113	-97	-81	-79	-113	-109	-116	-106	-94	-84	-86	-89	-77	-69	-87	-70	-82	-92	-91
5Q Mean		-40	-24	-17	-13	-9	-15	-22	-44	-48	-42	-67	-49	-43	-52	-35	-69	-48	-54	-33	-26	-27	-24	-22	-35	-36
5D Mean		-290	-188	-197	-254	-227	-263	-330	-209	-172	-151	-241	-294	-357	-297	-273	-144	-116	-172	-180	-170	-187	-120	-217	-221	-219

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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	71	210	295	123	68	85	188	206	153	127	92	47	55	28	58	66	72	101	101	120	68	68	111	110
Q	202	138	108	79	36	73	58	71	116	89	110	162	89	41	34	36	42	31	32	34	61	59	60	55	76
3	49	25	21	23	54	45	61	78	99	149	45	45	42	41	37	31	38	47	37	66	96	82	45	62	55
Q	47	23	18	20	28	29	61	61	41	46	54	54	113	127	102	200	112	31	42	48	51	41	34	30	59
5	34	19	28	34	32	61	110	120	127	207	167	83	60	72	85	124	101	42	50	61	95	96	130	62	83
6	55	103	113	255	170	79	167	266	193	131	98	105	102	174	119	38	72	94	143	142	145	120	122	77	129
Q	28	20	19	21	37	64	102	86	54	49	50	60	57	184	129	197	92	108	40	45	45	57	89	156	75
Q	63	18	12	10	20	27	36	61	79	67	46	43	43	40	45	49	52	61	40	55	41	44	35	31	42
9	23	36	35	123	130	115	116	95	91	66	64	66	59	56	78	116	114	78	69	155	256	202	164	144	102
10	183	166	347	242	153	86	109	255	300	132	99	189	609	553	170	180	334	691	678	527	260	99	81	174	276
D	178	186	273	288	204	279	285	326	155	133	150	256	294	465	209	129	176	229	136	138	105	170	419	393	232
D	591	253	273	567	464	514	414	140	177	198	190	219	664	211	74	71	127	461	638	522	535	187	317	210	334
D	258	385	451	181	146	694	788	195	63	57	149	158	192	376	834	681	640	286	313	346	99	124	163	492	336
D	351	170	306	618	687	433	740	817	816	681	787	721	684	621	459	169	119	506	491	185	42	55	97	355	455
D	651	460	167	80	158	72	190	211	137	165	418	806	751	450	333	139	77	81	73	282	640	523	713	270	327
16	69	138	241	152	91	56	97	133	267	366	518	269	282	158	38	47	44	79	96	214	510	318	273	463	205
17	140	55	43	97	211	349	317	181	74	55	129	134	147	171	181	141	224	399	105	67	45	40	63	60	143
18	79	84	74	103	141	220	108	43	102	250	244	232	399	459	383	207	148	128	96	86	106	47	50	133	163
19	166	217	210	86	110	182	192	231	109	82	54	40	36	36	45	71	78	74	101	72	124	68	49	56	104
20	49	52	42	296	290	248	127	220	118	77	224	162	78	38	48	80	266	293	235	123	255	353	256	321	177
21	428	467	395	202	68	46	41	32	35	46	46	48	55	77	282	635	393	69	59	103	76	85	62	54	159
22	144	217	63	71	149	100	45	82	49	43	40	138	57	130	207	226	285	78	38	55	124	450	644	514	165
23	351	229	356	424	188	186	141	109	83	90	126	45	39	35	44	82	144	55	87	76	56	47	42	41	128
24	33	26	25	30	65	158	94	50	40	39	38	39	38	34	32	33	46	53	38	64	63	136	101	44	55
25	63	107	95	94	444	524	318	92	54	109	402	718	361	123	87	64	93	98	219	136	53	48	44	46	183
26	45	40	50	99	106	129	222	188	84	120	230	56	30	36	41	43	39	34	33	28	46	72	90	67	78
27	31	191	363	163	179	222	218	199	113	49	74	43	113	67	58	42	88	114	78	116	282	144	55	85	129
28	118	53	94	351	311	291	484	355	230	118	45	40	40	49	29	46	66	59	143	92	43	34	35	31	132
29	35	40	66	78	42	40	68	274	183	55	53	63	88	133	90	43	38	42	40	42	63	70	125	139	79
Q	83	49	56	66	40	49	66	165	165	95	206	65	54	44	38	59	91	185	153	84	55	51	55	81	86
31	55	34	31	73	47	46	43	39	43	49	45	44	64	151	229	224	129	58	41	40	51	60	140	356	87
Mean	152	131	147	168	158	176	190	171	142	127	162	167	183	167	147	137	139	149	143	132	146	127	149	164	153
5Q Mean	84	49	42	39	32	48	64	88	91	69	93	76	71	87	69	108	77	83	61	53	50	50	54	70	67
5D Mean	405	290	294	346	331	398	483	337	269	246	338	432	517	424	381	237	227	312	330	294	284	211	341	344	336

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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	7	-25	-58	-7	14	20	-4	-76	-42	-50	-29	-7	5	-1	-4	-12	1	-2	13	12	15	12	-2	-8	
Q	2	-38	-10	0	10	5	7	10	4	-7	-31	-43	-19	0	-2	0	3	2	4	0	1	2	4	-1	-5	
Q	3	2	10	0	4	13	7	16	11	-9	-47	0	-2	4	1	2	6	6	3	6	1	-4	1	5	1	
Q	4	8	5	10	8	8	5	0	-1	-3	-6	1	-1	-21	5	-40	-25	8	6	0	-7	-6	-1	1	-2	
Q	5	14	18	23	20	11	23	15	19	-37	-49	-10	14	19	11	-4	-25	8	22	13	-10	2	0	12	5	
Q	6	17	0	23	-48	-8	7	17	-22	6	-11	-15	-6	6	-11	-25	0	2	-17	-4	-10	12	8	16	-2	
Q	7	10	3	4	0	2	15	18	7	0	-3	0	1	-17	-1	-30	-12	-38	1	0	-3	3	17	-2	-1	
Q	8	6	6	4	1	3	3	4	9	6	0	-1	-2	-4	-6	-6	-5	0	-1	0	-3	2	0	0	0	
Q	9	5	11	12	-12	-10	6	13	21	13	6	-3	-8	-3	1	11	18	-14	3	9	-9	-20	26	17	19	4
Q	10	9	12	-53	-9	23	23	33	-10	-28	19	18	33	-64	-75	4	13	-6	-55	17	25	5	4	3	-2	
D	11	-20	10	-62	-56	-10	-2	4	-1	4	36	4	-5	-29	-110	-31	5	13	12	2	-2	13	9	-48	-40	-13
D	12	-132	-7	-8	-120	-80	-105	-60	24	5	-28	-21	3	-123	-27	3	0	5	-59	-98	-28	-74	21	-28	-8	-39
D	13	-14	-53	-112	-19	20	-113	-206	20	21	10	14	-26	1	-37	-184	-92	-44	14	36	-39	2	0	-22	-102	-38
D	14	-111	-22	-47	-216	-209	-96	-115	-170	-174	-120	-260	-163	-172	-156	-124	-39	1	-44	-14	8	15	2	15	-34	-93
D	15	-159	-144	-22	10	-24	-4	-66	-76	-48	-37	-94	-200	-168	-90	-74	5	9	-5	-3	-57	-183	-110	-148	-61	-73
D	16	28	33	-27	-34	2	1	4	-1	-49	-52	-34	-43	-42	-8	12	4	10	-6	-15	-50	-105	-17	-16	-95	-21
D	17	5	4	-3	3	-29	-25	-102	7	17	7	-39	-29	-21	-33	-25	-2	-54	-120	-3	-2	5	2	9	0	-17
D	18	-8	-8	-6	-15	-21	-53	6	13	22	-75	-92	-31	-51	-103	-78	-41	-18	-29	-12	-3	-17	-1	-29	-27	-27
D	19	-24	-40	-43	-5	-2	-23	-4	-2	-6	-17	-6	0	0	-3	-2	-5	-1	-13	-20	-6	-34	-5	0	9	-10
D	20	6	2	13	-62	-59	-37	1	-47	-31	-7	-68	-55	-20	1	0	1	-63	-71	-55	0	-20	-68	-1	-2	-26
D	21	47	29	37	31	16	4	0	1	0	1	-1	0	5	8	-46	-115	-87	-1	9	1	-9	3	-2	-1	-2
D	22	2	-35	3	11	-12	-11	7	-10	4	0	0	-47	0	0	-39	-46	-73	-9	7	12	13	-95	-114	-21	-18
D	23	-12	0	-22	-40	14	29	12	20	2	-9	-34	-2	2	3	-1	-10	-47	1	-11	6	4	0	-2	0	-3
D	24	3	3	5	6	13	2	22	13	9	2	0	0	-1	-6	-1	-1	2	3	0	0	8	-20	-14	6	2
D	25	12	1	13	28	-104	-137	-87	0	10	9	-60	-119	-13	7	5	5	-7	-9	-11	-8	2	4	-3	0	-19
D	26	0	2	7	-6	-9	0	-49	0	20	-29	-89	10	4	0	-4	-3	0	2	3	4	4	8	16	11	-3
D	27	3	-20	-73	5	9	-3	-20	-10	17	0	-17	-9	-36	-3	2	-2	-8	-9	-2	8	-46	-19	7	10	-9
D	28	-3	3	14	-91	-83	-61	-118	-112	-35	-30	-5	1	-10	-19	-2	-6	-5	-1	-45	-16	0	1	1	2	-25
D	29	8	8	6	10	14	12	22	-60	-43	10	-1	0	-6	-9	0	5	1	2	1	-1	-7	-9	-8	1	-1
Q	30	20	13	10	19	5	7	12	-29	-24	-26	-69	-6	2	0	-1	-1	-10	-38	-24	-1	5	2	1	0	-5
Q	31	8	7	9	-2	16	9	6	0	6	2	3	3	8	-6	-65	-82	-36	-7	4	1	-1	5	14	-15	-4
Mean	-9	-5	-10	-20	-15	-16	-18	-12	-11	-15	-32	-25	-24	-22	-21	-15	-16	-14	-6	-4	-14	-7	-9	-10	-15	-15
5Q Mean	1	0	3	5	5	7	8	0	-3	-8	-20	-10	-8	-8	-1	-15	-9	-13	-2	0	-1	0	4	0	0	-2
5D Mean	-87	-43	-50	-80	-60	-64	-88	-40	-38	-27	-71	-78	-98	-84	-82	-26	-3	-16	-15	-23	-45	-15	-46	-49	-51	-51

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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	186	148	150	143	112	171	138	79	60	33	96	46	24	64	88	47	31	32	75	162	163	81	117	179	101
Q	223	168	140	87	37	33	34	25	12	5	2	30	65	105	92	68	23	22	21	27	27	23	42	56	57
3	71	53	54	57	65	93	64	58	20	23	41	20	17	24	46	24	21	23	19	23	25	24	23	29	38
Q	35	44	39	41	35	24	21	52	30	28	29	24	25	26	36	52	30	20	27	24	25	28	26	23	31
5	22	23	36	44	37	23	34	54	50	133	163	71	76	80	70	47	31	49	71	85	66	47	65	47	59
6	17	21	16	87	112	132	122	102	58	104	202	282	174	77	155	142	146	101	190	171	94	97	62	36	112
D	41	82	130	184	203	179	151	224	222	192	170	190	131	214	184	70	85	189	170	209	278	279	199	127	171
D	69	86	148	155	110	145	111	195	131	197	163	90	50	39	34	65	78	112	76	47	107	103	83	79	103
D	132	113	108	134	152	101	81	130	142	170	176	119	209	347	295	207	133	132	85	230	182	215	81	114	158
10	140	125	102	56	119	95	106	106	85	62	165	174	128	180	146	77	71	81	91	128	103	68	73	123	108
11	172	157	137	154	145	101	94	115	82	59	87	105	60	61	129	101	52	40	89	77	55	58	76	88	96
12	71	35	21	22	9	16	38	34	27	88	196	53	78	75	136	221	252	176	121	34	45	42	34	28	77
13	24	29	36	85	108	75	82	67	42	50	44	54	46	34	48	55	29	29	46	30	40	96	117	125	58
14	95	104	74	66	59	28	25	16	29	32	20	13	41	89	103	25	18	20	20	16	15	12	12	20	40
15	41	69	72	33	15	18	16	48	58	78	89	53	29	25	19	27	25	42	45	51	37	55	99	115	48
16	55	67	94	67	32	18	62	47	34	22	19	45	83	48	30	38	13	39	53	64	69	82	78	52	51
17	41	58	49	65	74	124	104	89	79	67	52	22	20	29	11	49	29	23	18	23	19	35	55	63	50
18	60	46	27	22	27	30	64	31	29	16	21	20	34	33	23	21	20	17	18	24	22	27	56	63	31
19	77	141	62	14	12	32	62	33	39	34	17	4	1	7	49	29	22	28	31	31	24	18	22	40	34
Q	59	87	63	63	34	39	22	17	17	16	6	3	12	9	16	26	13	16	17	17	27	34	42	40	29
21	27	24	19	26	29	14	44	14	16	9	16	19	44	41	26	15	21	14	20	36	30	21	41	64	26
22	79	71	62	74	41	21	10	6	11	13	8	4	3	3	14	21	17	18	23	29	34	34	28	20	27
23	14	24	45	70	42	45	24	26	18	20	6	7	8	5	6	7	9	20	17	22	24	27	50	33	24
24	24	26	40	46	58	51	45	38	48	58	29	10	11	29	20	23	13	20	20	21	22	18	18	38	30
25	38	33	35	40	17	18	14	12	10	8	8	11	10	10	16	25	19	35	115	176	236	142	245	127	58
26	36	33	45	132	62	131	141	102	85	94	50	95	136	78	49	69	40	41	34	28	23	14	36	36	66
D	63	67	101	169	78	155	102	110	65	112	142	198	155	39	41	38	69	92	101	135	133	134	201	100	108
28	119	119	160	125	84	65	42	79	89	185	109	106	13	3	16	24	41	35	24	21	32	37	28	30	66
29	15	34	27	37	56	44	64	7	21	20	23	39	47	79	65	18	19	31	24	21	29	28	20	28	33
Q	19	11	10	16	24	34	92	112	68	31	13	15	9	4	27	13	13	11	12	16	20	29	38	43	28
Mean	68	69	70	77	66	68	66	67	55	65	72	64	57	61	66	54	46	50	55	65	66	63	68	65	64
5Q Mean	70	66	59	55	34	35	38	46	29	20	11	15	23	29	35	33	17	17	18	21	24	28	39	39	33
5D Mean	68	76	106	154	121	142	117	152	129	153	140	138	136	143	120	89	81	113	93	129	144	149	120	91	121

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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	-386	-183	-389	-290	-147	-204	-175	-131	-131	-132	-334	-123	-56	-77	-98	-79	-49	-20	-196	-321	-201	-79	-151	-190	-173
Q	-217	-225	-258	-226	-88	-112	-62	-10	-11	-14	-17	-25	-67	-136	-179	-79	-25	-16	-10	-53	-33	-31	-9	-12	-30
Q	-121	-121	-125	-180	-67	-80	-90	-78	-76	-159	-58	-13	-18	-16	-35	-38	-29	-41	-42	-36	-31	-21	-19	-45	-64
Q	-100	-67	-14	-39	-6	-9	-7	-71	-56	-35	-70	-25	-21	-25	-27	-34	-113	-25	-20	-26	-31	-28	-20	-17	-37
Q	0	0	-10	-100	-93	-27	-66	-155	-212	-386	-275	-118	-79	-129	-137	-41	-19	-43	-125	-64	-40	-26	-64	-65	-95
D	-11	-3	-4	-63	-241	-322	-155	-105	-50	-54	-471	-570	-279	-175	-275	-291	-219	-54	-182	-303	-127	-265	-70	-21	-180
D	-15	-92	-255	-367	-352	-354	-204	-301	-349	-332	-705	-669	-340	-582	-444	-141	-77	-340	-479	-304	-380	-622	-375	-224	-346
D	-182	-228	-390	-483	-535	-505	-709	-648	-363	-686	-546	-225	-72	-24	-43	-142	-128	-264	-139	-50	-232	-288	-203	-90	-299
D	-375	-377	-316	-289	-441	-225	-256	-759	-609	-433	-614	-534	-872	-1035	-689	-320	-336	-154	-92	-575	-491	-220	-160	-338	-438
10	-423	-368	-340	-92	-165	-385	-629	-475	-280	-179	-304	-497	-450	-453	-409	-208	-169	-297	-213	-169	-239	-102	-76	-248	-299
11	-452	-377	-407	-433	-371	-250	-323	-538	-304	-234	-251	-309	-91	-143	-289	-207	-205	-89	-85	-219	-62	-85	-153	-181	-252
12	-80	-30	-4	-5	-7	-8	-22	-179	-88	-110	-432	-156	-114	-133	-327	-538	-486	-267	-248	-6	-26	-115	-34	-15	-143
13	-7	-11	-11	-175	-308	-298	-147	-373	-415	-181	-162	-86	-56	-49	-90	-257	-55	-18	-49	-135	-121	-245	-380	-519	-173
14	-217	-91	-41	-42	-40	-6	-8	-13	-17	-63	-99	-53	-46	-236	-191	-38	-17	-18	-17	-11	-14	-15	-5	-6	-54
15	-21	-56	-56	-13	-12	-11	-12	-30	-120	-178	-149	-139	-35	-23	-24	-37	-84	-230	-82	-9	-31	-49	-265	-197	-78
16	-12	-19	-89	-150	-17	-10	-60	-249	-88	-13	-23	-43	-72	-48	-42	-87	-86	-93	-65	-219	-146	-72	-21	-14	-72
17	-20	-20	-3	-27	-65	-168	-163	-103	-129	-226	-16	-22	-14	-15	-22	-62	-109	-64	-27	-27	-19	-27	-28	-81	-61
18	-25	-15	-28	-1	-3	-15	-113	-104	-12	-11	-100	-63	-55	-30	-24	-64	-37	-15	-24	-40	-24	-43	-72	-142	-44
19	-58	-346	-66	-10	-7	-21	-65	-24	-19	-9	-13	-16	-16	-22	-88	-185	-200	-228	-82	-44	-26	-11	-9	-26	-66
Q	-48	-51	-12	-22	-5	-50	-8	-6	-7	-21	-22	-22	-22	-59	-33	-38	-64	-20	-20	-16	-19	-28	-32	-15	-27
21	-44	-123	-20	0	-5	-7	-29	-14	-15	-14	-24	-88	-109	-71	-32	-18	-17	-9	-12	-23	-30	-6	-32	-132	-36
22	-103	-33	-21	-80	-14	-13	-13	-12	-13	-19	-23	-21	-20	-22	-27	-44	-87	-84	-99	-83	-36	-61	-13	-11	-40
Q	-5	-1	-50	-134	-68	-11	-5	-8	-10	-49	-33	-23	-15	-20	-25	-26	-26	-23	-15	-9	-9	-14	-27	-15	-26
24	-12	-25	-173	-205	-102	-24	-16	-124	-80	-38	-19	-22	-27	-17	-39	-26	-26	-20	-30	-10	-12	-14	-15	-13	-45
25	-9	-22	-78	-32	-1	-8	-24	-7	-7	-7	-11	-10	-8	-10	-10	-11	-10	-13	-164	-614	-707	-376	-197	-242	-107
D	-228	-29	-30	-139	-268	-448	-460	-168	-208	-531	-287	-394	-413	-146	-145	-331	-366	-298	-67	-32	-28	-7	-42	-117	-216
D	-251	-268	-411	-387	-212	-237	-258	-200	-262	-373	-540	-393	-305	-235	-174	-119	-193	-239	-180	-142	-128	-399	-468	-137	-271
28	-141	-278	-380	-421	-117	-51	-62	-139	-226	-381	-340	-193	-50	-23	-25	-90	-174	-149	-31	-7	-47	-110	-36	-21	-145
29	-54	-54	-222	-83	-69	-35	-58	-347	-146	-45	-82	-80	-88	-140	-80	-38	-112	-87	-61	-17	-134	-105	-9	-118	-94
Q	-23	-9	-9	-16	-70	-63	-70	-46	-63	-129	-93	-50	-27	-19	-26	-26	-75	-40	-16	-8	-6	-19	-60	-103	-44
Mean	-121	-117	-140	-150	-129	-131	-142	-180	-145	-168	-203	-166	-127	-137	-134	-120	-119	-108	-95	-119	-114	-115	-101	-112	-133
5Q	-78	-70	-68	-87	-47	-49	-30	-28	-29	-49	-47	-29	-30	-51	-58	-40	-60	-24	-16	-22	-19	-19	-30	-36	-42
5D	-210	-198	-280	-333	-361	-353	-377	-415	-358	-471	-538	-443	-400	-404	-299	-210	-220	-259	-191	-220	-251	-307	-249	-181	-314

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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	573	332	540	434	260	375	313	211	192	165	431	171	81	142	187	127	81	54	272	485	365	160	269	369	275
Q	440	394	399	314	126	146	96	36	24	20	20	55	133	242	272	148	49	40	33	82	61	34	54	87	138
3	193	174	179	237	133	173	155	136	97	183	100	34	36	41	81	64	52	65	63	60	57	47	44	75	103
Q	136	112	53	81	42	33	29	125	88	64	99	49	47	51	63	87	144	47	49	52	58	58	48	42	69
5	23	24	46	144	130	52	101	211	263	520	439	191	156	210	208	89	52	93	198	150	107	74	129	113	155
6	30	26	20	151	354	455	277	208	110	159	673	853	455	253	432	435	367	156	373	475	223	363	132	57	293
D	57	175	386	551	556	533	355	525	572	525	876	860	473	798	629	212	163	531	650	514	658	902	575	352	518
D	251	315	538	639	645	650	820	844	496	884	710	317	123	63	78	209	207	377	217	98	340	391	287	170	403
D	507	490	424	424	594	327	337	890	752	604	792	654	1082	1384	985	529	471	287	178	806	673	435	242	452	597
10	564	494	442	149	285	481	736	582	366	242	471	672	580	635	557	287	242	380	305	298	343	171	150	371	408
11	625	535	544	587	516	352	418	654	387	293	339	416	152	205	420	310	258	131	175	298	118	143	229	269	349
12	152	65	26	28	17	25	61	214	117	199	629	210	194	210	464	760	739	445	370	41	73	158	68	43	221
13	32	40	48	261	416	373	230	441	458	233	208	142	102	84	139	313	85	48	96	167	162	341	497	645	232
14	313	195	115	108	100	35	34	30	46	96	120	67	89	326	294	63	36	39	39	29	31	29	18	27	95
15	62	126	129	47	28	30	29	79	179	257	240	193	64	49	43	65	111	273	129	62	69	105	364	313	127
16	69	87	184	218	49	30	123	297	123	36	43	90	156	98	73	127	101	133	120	284	217	155	101	67	124
17	61	79	53	92	140	292	267	192	209	294	69	45	34	45	33	112	140	88	46	52	40	64	84	145	111
18	86	61	55	24	31	46	178	136	42	27	122	84	90	64	48	87	58	34	44	66	47	72	130	205	76
19	135	487	129	25	21	54	128	58	59	43	31	21	18	30	138	215	224	257	115	76	51	29	33	66	102
Q	108	139	76	86	41	90	30	24	25	38	28	26	35	68	49	65	78	37	39	35	47	64	75	56	57
21	72	148	40	26	34	21	74	29	32	24	41	108	154	114	59	34	39	25	34	60	61	28	74	196	64
22	182	104	84	154	56	34	24	19	24	33	32	26	24	26	41	66	105	104	123	114	71	96	43	32	67
23	21	25	96	205	111	57	30	36	30	70	40	31	24	25	32	34	36	45	34	33	35	42	78	50	51
24	38	52	214	252	161	76	62	163	129	98	49	33	38	46	60	49	40	41	51	33	36	34	34	53	77
25	48	56	114	73	18	28	40	20	18	16	19	21	19	20	26	36	30	49	280	792	944	520	443	370	167
26	265	64	76	271	330	579	602	271	293	627	339	490	550	226	195	401	407	341	102	62	52	22	79	153	283
D	314	335	512	556	290	392	360	310	328	486	684	592	461	275	217	158	264	332	282	278	261	534	669	237	380
28	261	397	540	547	202	117	105	218	316	567	451	300	64	27	42	115	216	186	56	29	81	149	65	52	213
29	69	89	249	121	126	80	123	354	168	67	107	121	136	220	145	57	132	119	87	40	165	134	30	147	129
Q	43	21	19	32	94	98	163	160	132	161	107	66	36	24	54	41	89	53	29	25	28	50	99	147	74
Mean	191	188	211	227	196	201	210	249	202	234	276	231	186	200	202	176	167	160	152	186	182	180	171	178	198
5Q Mean	149	138	128	143	82	84	69	76	59	70	58	45	55	82	94	75	79	44	36	45	45	49	70	76	77
5D Mean	278	275	387	488	483	496	494	568	488	625	680	582	537	549	420	301	302	373	285	351	396	456	370	272	436

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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	-99	-16	-119	-72	-16	-17	-24	-34	-49	-118	-37	-15	-6	-5	-15	-8	6	-60	-78	-18	0	-16	-5	-35	
	2	3	-28	-58	-68	-25	-38	7	0	-4	-6	2	-1	-15	-43	-5	-1	2	5	-12	-3	6	13	12	-11	
Q	3	-24	-33	-34	-60	0	6	-12	-9	-27	-67	-8	3	0	3	5	-6	-3	-8	-10	-6	1	1	-8	-12	
Q	4	-32	-10	11	0	14	7	6	-9	-12	-3	-20	0	1	0	4	9	-40	-2	3	0	-2	0	2	-2	
5	11	10	12	-27	-27	-1	-15	-49	-80	-126	-55	-23	-1	-24	-33	2	5	2	-26	10	12	10	0	-8	-17	
D	6	2	8	5	12	-64	-94	-16	-1	3	24	-134	-143	-52	-48	-59	-73	-35	23	4	-65	-16	-83	-4	7	-33
D	7	12	-5	-61	-90	-74	-86	-25	-38	-62	-69	-267	-239	-104	-183	-129	-34	4	-74	-153	-47	-50	-170	-87	-47	-87
D	8	-55	-70	-120	-163	-212	-179	-298	-226	-115	-244	-191	-67	-11	7	-4	-37	-23	-75	-31	-1	-61	-92	-59	-4	-97
D	9	-120	-131	-103	-77	-143	-61	-86	-314	-232	-131	-218	-207	-331	-342	-196	-56	-101	-10	-3	-171	-153	-2	-38	-111	-139
10	-140	-120	-117	-17	-22	-144	-260	-184	-96	-58	-68	-161	-160	-135	-130	-64	-48	-106	-60	-20	-67	-16	-1	-61	-94	
11	-139	-109	-133	-138	-112	-74	-114	-211	-110	-86	-81	-101	-15	-40	-79	-52	-76	-23	2	-70	-3	-13	-37	-45	-77	
12	-4	2	8	8	1	3	7	-71	-30	-10	-117	-51	-17	-28	-94	-157	-116	-45	-62	13	8	-35	0	6	-32	
13	8	8	12	-44	-98	-110	-32	-152	-186	-65	-58	-15	-4	-7	-21	-100	-12	4	-1	-51	-39	-73	-130	-196	-57	
14	-60	5	16	11	9	10	7	1	5	-15	-39	-19	-2	-72	-43	-6	0	0	1	1	0	-1	3	6	-7	
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16	21	23	3	-40	7	3	1	-100	-27	4	-2	0	5	0	-5	-23	-36	-26	-5	-77	-37	5	28	18	-10	
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Q	20	5	17	24	20	14	-5	6	5	4	-2	-7	-8	-4	-24	-7	-5	-24	-1	0	3	3	4	11	1	
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22	-11	18	20	-2	12	3	-1	-2	0	-2	-6	-7	-7	-8	-5	-10	-34	-32	-37	-26	0	-13	6	3	-6	
Q	23	4	11	-2	-31	-12	16	9	8	3	-14	-13	-7	-3	-7	-8	-9	-7	-1	1	5	6	10	8	-1	
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25	14	4	-20	4	7	4	-5	2	1	0	0	0	1	0	2	6	3	10	-24	-218	-234	-116	23	-57	-24	
D	26	-95	2	7	-3	-102	-158	-159	-32	-61	-217	-118	-149	-138	-34	-47	-130	-162	-127	-15	-1	-2	2	-3	-39	-74
D	27	-93	-99	-154	-108	-66	-40	-77	-44	-97	-129	-198	-97	-75	-97	-65	-40	-61	-73	-38	-3	2	-132	-132	-18	-80
28	-10	-78	-109	-147	-16	7	-9	-29	-67	-97	-114	-43	-17	-9	-3	-32	-65	-56	-3	6	-7	-35	-4	4	-39	
29	-18	-9	-97	-22	-6	4	2	-169	-62	-12	-29	-20	-20	-30	-7	-9	-45	-26	-17	1	-52	-38	5	-44	-30	
Q	30	-2	0	0	0	-22	-13	10	32	2	-48	-39	-17	-9	-7	0	-6	-30	-14	-1	3	6	4	-10	-29	-7
Mean	-26	-23	-34	-36	-31	-31	-37	-56	-44	-50	-65	-50	-34	-37	-33	-32	-36	-28	-19	-26	-23	-25	-16	-23	-34	
5Q Mean	-4	-2	-5	-15	-6	-6	3	8	0	-14	-17	-6	-3	-10	-10	-3	-20	-3	1	0	2	3	3	0	-4	
5D Mean	-70	-60	-86	-88	-119	-104	-129	-130	-113	-158	-198	-151	-131	-129	-88	-59	-68	-71	-48	-44	-52	-78	-63	-43	-95	

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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	44	44	37	32	25	33	34	46	44	26	20	16	28	23	12	5	6	10	14	17	15	17	28	15	25
2	22	17	15	22	28	33	45	51	55	72	46	43	41	87	82	44	166	178	122	83	94	145	200	186	78
D 3	139	392	341	402	337	410	150	120	114	65	125	91	177	235	264	203	212	193	154	192	142	119	109	106	200
4	80	123	85	67	103	56	85	183	162	79	107	92	148	102	92	165	69	124	110	82	64	54	103	127	103
5	107	186	144	108	118	142	149	136	153	121	163	107	155	322	224	214	237	171	187	134	105	91	68	145	154
6	157	90	100	85	101	117	147	97	60	43	102	54	93	147	197	82	88	51	97	84	94	185	190	166	109
D 7	152	115	73	64	146	84	105	96	83	98	49	32	31	76	165	183	159	252	199	216	211	198	112	154	127
8	61	89	152	158	109	99	58	79	82	75	146	67	42	33	26	35	20	63	51	58	69	67	63	63	74
9	74	97	109	100	80	74	74	82	114	74	39	26	24	22	35	32	66	113	156	75	38	35	29	72	68
10	101	104	74	95	97	66	70	24	41	100	106	48	62	66	51	86	64	65	57	99	123	145	96	64	79
11	74	100	115	93	169	232	99	93	104	67	40	29	69	211	121	109	130	184	214	173	201	198	222	238	137
12	194	159	107	108	128	90	108	58	66	79	79	34	87	89	38	38	14	27	69	144	155	153	228	196	102
13	92	54	43	52	76	62	38	78	100	201	138	77	38	19	32	33	24	34	26	33	81	71	78	96	66
14	89	72	84	53	45	26	15	16	23	28	27	20	23	28	37	44	55	69	68	42	33	55	74	52	45
15	34	72	106	141	151	123	55	32	42	52	62	78	44	57	46	34	23	14	12	16	50	66	88	88	62
16	72	77	53	49	62	35	33	42	38	51	24	55	43	30	24	34	38	20	18	17	21	20	24	21	38
Q 17	27	25	29	31	30	37	33	33	47	34	23	15	19	20	14	15	12	11	17	17	20	21	28	59	26
18	43	32	32	40	44	36	23	16	21	20	16	16	13	8	15	15	19	18	24	42	92	79	68	39	32
19	27	18	21	19	23	21	24	19	22	26	16	14	16	11	19	31	39	41	40	66	105	185	265	220	54
20	173	197	100	43	28	26	33	35	32	37	33	46	24	36	21	28	26	49	36	44	36	25	28	47	49
Q 21	56	52	34	47	38	36	53	60	58	39	35	20	21	23	13	10	11	10	18	16	16	15	15	14	30
22	19	28	36	29	26	38	50	72	66	77	112	270	229	144	61	178	225	159	145	105	90	97	106	53	101
D 23	136	87	30	18	82	87	95	107	131	159	151	191	116	166	206	227	205	234	178	130	154	165	115	78	135
24	156	119	117	110	94	65	130	125	137	165	136	107	149	100	112	233	182	73	142	129	97	110	87	75	123
25	88	88	84	104	91	66	105	191	80	48	22	18	14	20	21	26	23	18	36	33	26	23	20	37	53
26	65	74	113	57	71	60	37	33	28	12	29	48	67	86	52	43	28	19	33	44	26	25	30	33	46
Q 27	32	33	25	26	32	54	51	47	37	39	62	90	36	19	16	19	20	13	18	11	17	23	26	24	32
Q 28	23	32	31	27	31	32	35	23	34	23	10	19	25	68	57	31	21	12	17	32	53	65	59	93	36
D 29	122	150	132	125	95	97	150	165	157	104	18	201	215	136	-14	277	153	99	59	18	14	16	26	35	106
D 30	26	38	89	154	234	219	145	115	100	100	176	59	69	67	127	91	56	109	153	148	210	126	118	103	118
31	72	119	120	109	107	76	109	104	116	111	153	120	113	141	158	247	164	61	177	151	118	91	141	136	126
Mean	82	93	84	82	90	84	75	76	75	71	73	67	71	83	74	90	82	80	85	79	82	86	91	91	81
5Q Mean	36	37	31	32	31	38	41	41	44	32	30	32	25	30	22	16	14	11	16	18	24	28	31	41	29
5D Mean	115	156	133	152	178	179	129	120	117	105	103	114	121	136	149	196	157	177	148	140	146	124	96	95	137

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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	-105	-19	-3	0	-1	-7	-14	-49	-74	-76	-74	-46	-17	-18	-16	-13	-11	-10	-12	-5	0	1	0	-1	-24
2	-7	1	2	0	-12	-27	-30	-34	-26	-16	-8	-10	-11	-19	-57	-62	-91	-113	-187	-115	-65	-150	-547	-464	-85
D 3	-255	-556	-701	-641	-412	-604	-441	-633	-928	-563	-548	-393	-579	-731	-1090	-362	-558	-468	-411	-233	-257	-265	-428	-305	-515
4	-190	-563	-148	-97	-368	-423	-332	-663	-514	-222	-354	-467	-532	-475	-325	-322	-92	-255	-320	-113	-7	-77	-371	-501	-322
5	-194	-518	-401	-193	-467	-454	-373	-249	-302	-691	-749	-663	-614	-928	-696	-550	-581	-496	-383	-292	-499	-224	-182	-447	-465
6	-361	-198	-257	-319	-235	-507	-493	-105	-46	-90	-321	-738	-725	-565	-658	-384	-250	-83	-102	-94	-126	-708	-555	-603	-355
D 7	-498	-459	-140	-91	-211	-503	-334	-164	-453	-351	-209	-88	-18	-175	-729	-608	-243	-447	-470	-438	-454	-291	-206	-394	-332
8	-104	-143	-322	-359	-338	-236	-212	-391	-249	-232	-443	-289	-52	-30	-22	-25	-40	-296	-342	-101	-255	-210	-105	-214	-209
9	-221	-230	-266	-242	-179	-252	-213	-161	-270	-93	-15	-10	-36	-24	-49	-158	-298	-249	-351	-391	-51	-31	-15	-83	-162
10	-319	-144	-181	-237	-201	-293	-271	-253	-257	-213	-363	-55	-78	-119	-160	-321	-279	-179	-44	-109	-501	-472	-218	-258	-230
11	-31	-182	-376	-375	-383	-330	-492	-453	-291	-488	-363	-361	-375	-279	-320	-233	-211	-428	-285	-320	-447	-237	-247	-270	-324
12	-259	-319	-219	-148	-231	-398	-152	-133	-291	-255	-186	-82	-115	-177	-73	-70	-47	-14	-68	-329	-416	-156	-256	-253	-194
13	-42	-15	-22	-39	-52	-61	-40	-53	-146	-364	-267	-97	-45	-25	-40	-188	-49	-89	-21	-1	-48	-88	-139	-161	-87
14	-157	-85	-40	-127	-13	-5	-7	-3	-5	-6	-15	-177	-78	-131	-43	-124	-297	-465	-42	-3	-1	-69	-176	-104	-91
15	-6	-52	-317	-266	-168	-257	-107	-23	-64	-90	-264	-233	-154	-103	-25	-31	-6	-88	-61	-42	-61	-129	-93	-5	-110
16	-18	-7	-95	-7	-9	-11	-6	-8	-117	-154	-117	-167	-130	-32	-17	-26	-24	-19	-3	-14	-30	-21	-4	-2	-43
Q 17	-19	0	0	-2	0	-8	-29	-28	-13	-9	-11	-9	-14	-15	-14	-14	-41	-50	-3	-3	-2	0	-2	-37	-13
18	-9	-2	-1	-1	2	-5	-11	-9	-10	-11	-12	-16	-18	-20	-19	-39	-65	-90	-176	-172	-127	-78	-107	-4	-42
19	3	0	-1	-3	-2	-6	-8	-7	-10	-16	-19	-21	-21	-21	-17	-33	-84	-39	-56	-2	-41	-127	-59	-122	-30
20	-14	-4	-65	3	0	-3	-9	-9	-5	-8	-8	-9	-16	-15	-16	-36	-127	-173	-17	-24	-25	-18	-55	-121	-32
Q 21	-22	-12	-9	-5	0	-4	-11	-20	-12	-17	-9	-30	-22	-16	-16	-18	-14	-23	-14	-12	-28	-11	-2	-4	-14
22	-6	-13	-29	-9	-2	-7	-6	-14	-29	-25	-40	-360	-409	-301	-154	-221	-118	-125	-100	-5	-24	-64	-81	-482	-109
D 23	-580	-39	-13	-16	-95	-455	-764	-523	-1043	-855	-690	-866	-870	-808	-585	-636	-527	-378	-199	-412	-301	-332	-275	-199	-478
24	-334	-614	-482	-606	-545	-694	-631	-409	-613	-673	-522	-520	-600	-465	-492	-611	-683	-218	-356	-422	-213	-288	-238	-171	-475
25	-107	-158	-156	-342	-345	-541	-511	-390	-188	-48	-42	-51	-86	-44	-21	-18	-18	-25	-201	-112	-64	-4	-8	-14	-146
26	-111	-219	-233	-29	-68	-80	-130	-56	-80	-130	-274	-263	-284	-287	-233	-199	-108	-88	-94	-217	-156	-68	-126	-44	-149
Q 27	-13	-18	-19	-6	-4	-66	-182	-176	-107	-140	-161	-216	-201	-48	-40	-27	-36	-19	-15	-31	-11	-5	-6	-11	-65
Q 28	-27	-33	-15	-7	-4	-8	-48	-125	-105	-81	-84	-94	-78	-149	-132	-39	-25	-41	-89	-94	-108	-87	-89	-153	-72
D 29	-113	-174	-206	-254	-188	-197	-307	-418	-281	-565	-524	-425	-227	-1186	-1340	-723	-311	-49	-41	-126	-33	-49	-64	-32	-326
D 30	-17	-11	-52	-389	-500	-458	-243	-449	-768	-703	-336	-595	-580	-262	-495	-163	-244	-184	-687	-358	-604	-169	-407	-436	-380
31	-428	-472	-343	-235	-277	-238	-278	-238	-417	-716	-705	-191	-621	-614	-880	-771	-282	-37	-256	-288	-366	-169	-298	-224	-389
Mean	-147	-169	-164	-162	-171	-230	-215	-201	-248	-254	-249	-243	-245	-260	-283	-226	-185	-168	-174	-157	-171	-148	-172	-197	-202
5Q Mean	-37	-16	-9	-4	-1	-18	-56	-79	-62	-64	-67	-79	-66	-49	-43	-22	-25	-28	-26	-29	-29	-20	-19	-41	-37
5D Mean	-292	-247	-222	-278	-281	-443	-417	-437	-694	-607	-461	-473	-454	-632	-847	-498	-376	-305	-361	-313	-329	-221	-276	-273	-406

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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	150	64	41	33	27	41	49	97	120	103	96	63	46	41	29	19	18	21	27	24	15	16	30	17	49
2	31	15	12	23	40	61	76	86	82	89	54	54	52	107	140	107	258	292	310	199	160	296	747	650	164
D 3	394	950	1043	1044	751	1015	592	754	1044	629	675	485	757	967	1355	565	771	663	566	426	400	385	538	412	716
4	271	687	234	165	473	481	418	847	676	302	462	560	681	578	419	488	162	380	431	197	71	132	474	629	426
5	302	705	546	302	586	597	522	387	456	813	913	771	771	1251	920	765	820	668	572	427	605	317	251	593	619
6	519	288	358	404	337	625	641	202	106	134	424	793	819	712	856	467	339	135	200	179	222	894	746	769	465
7	651	576	213	156	358	588	439	261	537	450	259	121	50	252	895	792	402	700	671	655	666	490	319	549	461
8	165	233	475	518	448	336	272	471	332	308	589	356	95	64	49	61	60	360	394	161	325	279	169	279	283
9	296	328	375	343	259	328	289	244	385	168	55	38	61	47	85	190	364	363	508	468	91	68	45	156	231
10	421	249	255	332	298	360	342	278	298	314	470	104	140	186	212	408	343	244	102	209	626	619	315	324	310
11	106	282	492	470	553	563	593	547	396	556	404	390	444	491	442	343	341	613	501	494	650	437	471	509	462
12	454	479	327	256	361	489	261	193	358	335	266	117	203	268	112	108	62	41	138	474	573	310	485	451	297
13	135	69	66	91	129	124	80	132	246	566	406	175	84	44	74	222	74	124	48	35	131	160	219	258	154
14	248	157	124	180	59	32	23	20	29	36	44	197	102	160	81	169	353	536	111	46	35	126	252	158	137
15	40	125	424	408	319	380	163	56	108	144	326	312	199	161	73	66	30	104	74	59	112	196	183	94	173
16	92	86	148	57	71	46	39	51	157	206	142	223	174	63	41	61	63	41	22	32	52	42	29	24	82
17	48	24	28	33	31	46	64	62	61	43	36	25	35	35	30	30	53	62	22	21	23	23	31	97	40
18	53	36	34	41	41	41	34	26	33	32	30	33	32	28	35	54	84	109	201	215	221	158	176	44	75
19	23	18	22	22	26	28	32	27	34	44	36	37	38	33	37	65	124	81	97	69	148	313	325	342	84
20	188	201	166	40	29	29	43	45	38	45	41	56	41	52	37	65	154	223	54	69	62	45	85	170	82
21	80	66	44	52	36	41	65	81	71	57	46	51	44	40	29	29	26	34	33	29	45	28	18	19	44
22	26	42	66	40	29	46	56	86	96	103	153	630	639	446	216	400	344	284	247	111	115	162	188	535	211
D 23	717	127	44	35	178	542	860	632	1175	1015	842	1058	987	975	792	863	732	613	378	543	457	498	392	278	614
24	490	734	600	717	639	760	762	535	751	838	658	628	750	566	605	844	865	292	499	552	311	400	326	248	599
25	196	247	241	447	436	607	617	582	269	98	65	70	100	65	43	45	41	44	238	146	92	29	29	51	200
26	177	295	347	87	140	140	168	89	108	144	303	312	353	374	286	242	136	108	128	263	184	94	157	78	196
Q 27	46	51	44	33	37	122	234	224	145	180	224	307	237	68	58	46	57	33	34	44	29	29	32	36	98
Q 28	52	66	46	34	36	41	84	149	140	106	95	113	105	218	190	70	48	55	107	128	162	153	149	247	108
D 29	236	325	338	381	284	296	458	584	440	670	543	628	443	1323	1325	1001	465	149	101	145	49	66	91	69	434
D 30	44	50	142	545	735	678	388	565	869	804	513	654	649	330	624	255	300	294	842	507	814	296	526	540	499
31	500	592	464	345	385	315	388	344	534	828	859	312	734	757	1040	1019	447	100	434	441	485	261	440	361	516
Mean	230	263	250	246	262	316	292	279	325	327	323	312	318	345	359	318	268	250	260	237	255	236	265	289	284
5Q Mean	75	54	40	37	33	58	99	122	107	97	99	111	93	80	67	38	40	41	44	49	54	49	52	83	67
5D Mean	408	405	356	432	461	623	547	559	813	713	566	589	577	769	998	695	534	483	511	455	477	347	373	369	544

AO Index (Provisional Hourly mean values, unit nT)

October 1994

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	-30	12	16	15	11	12	9	-1	-14	-24	-26	-14	5	2	-1	-3	-1	0	0	5	7	9	13	7	0	
2	7	9	10	7	2	7	8	14	14	27	18	16	14	32	12	-9	37	32	-32	-15	14	-2	-173	-138	-3	
D 3	-57	-81	-179	-119	-37	-96	-144	-256	-406	-248	-211	-151	-201	-247	-412	-79	-172	-137	-128	-20	-57	-73	-158	-99	-157	
4	-54	-219	-31	-15	-132	-182	-123	-239	-175	-70	-123	-187	-191	-185	-115	-78	-11	-64	-104	-15	27	-11	-133	-186	-109	
5	-43	-165	-128	-41	-174	-155	-111	-55	-74	-284	-292	-277	-229	-302	-235	-167	-171	-162	-97	-78	-196	-66	-56	-150	-155	
6	-102	-53	-78	-116	-66	-195	-172	-3	6	-22	-109	-342	-315	-208	-230	-150	-80	-15	-2	-5	-16	-261	-182	-218	-122	
D 7	-172	-171	-33	-13	-32	-209	-114	-33	-184	-125	-79	-27	6	-49	-281	-212	-42	-97	-134	-110	-121	-46	-46	-119	-102	
8	-21	-27	-84	-100	-113	-68	-76	-155	-82	-77	-148	-110	-4	1	1	4	-9	-116	-144	-21	-92	-71	-21	-75	-67	
9	-73	-66	-78	-70	-48	-88	-69	-39	-77	-9	11	7	-5	-1	-7	-62	-116	-67	-97	-157	-6	1	5	-5	-46	
10	-109	-20	-52	-70	-51	-113	-100	-114	-107	-56	-128	-3	-8	-26	-53	-117	-107	-56	6	-4	-188	-163	-60	-96	-75	
11	21	-40	-130	-141	-106	-48	-196	-179	-93	-210	-161	-165	-152	-33	-98	-61	-40	-121	-35	-73	-122	-19	-12	-15	-93	
12	-32	-79	-56	-19	-51	-153	-21	-37	-112	-87	-53	-23	-13	-43	-17	-15	-16	6	0	-91	-129	-1	-14	-28	-45	
13	23	19	9	5	12	0	0	12	-22	-81	-64	-9	-3	-3	-3	-77	-12	-27	2	15	16	-8	-30	-32	-10	
14	-33	-6	21	-36	15	9	3	5	8	10	5	-78	-27	-51	-3	-40	-120	-197	12	19	15	-6	-50	-26	-22	
15	13	9	-104	-62	-8	-66	-25	4	-10	-18	-100	-77	-54	-23	9	1	7	-36	-24	-13	-5	-31	-2	41	-24	
16	26	34	-20	20	26	11	12	16	-39	-50	-45	-55	-43	-1	3	3	6	0	6	1	-4	0	9	9	-2	
Q 17	3	12	14	14	14	14	2	2	16	11	5	2	2	2	0	0	-14	-19	6	6	8	9	12	10	5	
18	16	14	14	14	19	23	15	5	3	4	3	1	0	-2	-5	-1	-12	-22	-35	-75	-64	-17	0	-19	16	-4
19	15	8	9	8	9	6	7	5	5	4	-1	-3	-2	-4	1	0	-22	0	-8	31	31	28	102	48	11	
20	78	96	17	23	13	10	11	12	13	14	11	18	3	10	2	-4	-50	-61	8	9	5	3	-13	-36	8	
21	16	19	11	20	18	15	20	19	22	10	12	-5	0	2	-1	-4	-1	-6	1	1	-5	1	6	4	7	
22	5	7	3	9	11	14	21	28	17	25	35	-45	-89	-78	-46	-21	53	16	22	49	32	15	12	-214	-4	
D 23	-221	23	8	0	-6	-183	-333	-207	-456	-347	-259	-337	-376	-320	-189	-204	-160	-71	-10	-141	-73	-83	-79	-60	-171	
24	-88	-247	-182	-247	-225	-313	-250	-142	-237	-253	-192	-206	-224	-182	-189	-189	-250	-72	-106	-145	-57	-88	-75	-47	-175	
25	-9	-34	-35	-118	-126	-236	-202	-99	-54	0	-10	-16	-35	-11	0	3	2	-3	-82	-39	-19	8	5	10	-46	
26	-23	-72	-59	13	1	-9	-45	-11	-25	-58	-122	-107	-108	-100	-90	-77	-39	-34	-29	-86	-64	-21	-47	-5	-51	
Q 27	9	7	2	9	13	-6	-65	-63	-34	-50	-49	-62	-82	-13	-11	-4	-8	-3	1	-9	2	8	9	5	-16	
Q 28	-1	0	7	9	12	11	-6	-50	-34	-28	-36	-36	-26	-40	-37	-4	-1	-14	-35	-30	-27	-10	-15	-29	-17	
D 29	4	-12	-36	-64	-46	-49	-78	-126	-61	-230	-252	-111	-5	-525	-677	-222	-78	24	8	-54	-9	-16	-18	1	-109	
D 30	3	13	18	-117	-132	-119	-48	-166	-333	-301	-79	-267	-255	-97	-183	-35	-93	-37	-266	-104	-196	-21	-144	-166	-130	
31	-177	-175	-111	-62	-84	-80	-84	-66	-149	-302	-275	-35	-253	-236	-360	-262	-59	11	-39	-67	-123	-38	-78	-43	-131	
Mean	-32	-38	-39	-39	-40	-72	-69	-62	-86	-91	-87	-87	-86	-88	-103	-67	-51	-43	-44	-38	-44	-30	-40	-52	-60	
5Q Mean	0	10	10	13	13	9	-8	-18	-8	-16	-18	-23	-20	-9	-10	-3	-5	-8	-5	-5	-3	3	5	0	-4	
5D Mean	-88	-45	-44	-62	-50	-131	-143	-157	-288	-250	-178	-178	-166	-247	-348	-150	-109	-63	-106	-85	-91	-47	-89	-88	-133	

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	94	110	109	106	80	67	102	59	78	108	84	86	85	98	82	66	52	87	46	38	55	71	75	67	79
2	99	105	85	92	103	121	159	87	80	72	61	107	42	62	133	46	54	124	90	125	120	89	92	58	92
3	63	52	58	47	101	106	81	90	75	52	61	154	49	66	136	106	95	138	124	138	74	40	45	81	85
D	104	94	87	112	121	212	200	126	95	34	46	88	33	23	26	40	79	110	149	152	151	167	112	75	102
5	103	104	74	124	64	25	20	20	55	40	45	112	97	63	32	13	26	36	60	66	68	56	75	134	63
D	206	172	196	270	248	254	234	241	187	100	115	187	195	279	296	215	135	190	86	46	60	43	9	15	166
7	14	62	42	84	116	97	38	48	38	52	61	36	54	61	34	5	32	51	47	30	29	28	19	20	46
Q	27	40	34	27	28	40	38	35	44	61	49	32	59	79	45	22	24	33	31	20	21	22	25	30	36
9	58	43	30	35	44	53	68	59	57	85	95	165	212	113	223	230	134	56	98	95	106	147	161	199	107
10	139	125	122	183	197	131	166	88	50	51	81	98	55	46	43	33	26	48	77	117	82	71	78	59	90
11	53	46	65	66	82	90	78	52	38	50	56	41	35	26	22	17	12	14	11	14	12	22	22	28	40
12	33	63	65	51	51	56	81	60	73	90	29	16	16	22	34	35	17	29	30	19	26	27	27	32	41
13	31	34	23	20	41	34	42	29	20	21	20	24	22	27	40	31	17	34	10	19	15	32	24	24	26
14	23	41	57	34	87	73	74	113	62	39	44	25	24	18	37	41	27	53	136	139	178	164	181	202	78
15	112	64	48	34	33	38	65	74	93	103	81	42	38	40	25	35	42	25	61	51	82	133	104	45	61
16	42	91	69	40	43	38	52	42	32	33	26	46	25	36	49	45	21	28	43	20	16	15	17	20	37
17	23	22	37	53	141	91	87	74	57	58	39	29	19	27	23	29	40	25	17	52	20	45	20	26	44
18	30	26	31	27	24	23	32	36	35	34	35	67	104	94	67	85	117	105	60	63	37	29	34	43	52
19	76	145	218	131	208	325	310	85	58	44	89	38	41	85	105	97	88	286	257	296	249	108	69	52	144
D	31	78	99	119	119	115	109	169	185	162	153	39	112	242	100	142	114	54	23	33	55	75	96	84	105
21	119	102	90	72	48	43	88	73	53	18	34	41	31	35	39	52	16	26	20	32	28	25	49	38	49
22	36	47	46	63	79	52	37	36	40	49	24	17	20	31	54	38	25	28	21	23	27	30	30	30	37
23	30	31	33	31	40	37	31	24	22	26	19	23	16	25	19	26	14	26	17	20	22	28	24	23	25
Q	26	28	36	31	35	75	47	92	176	90	61	41	49	64	71	32	34	50	40	29	26	27	21	20	50
Q	21	27	32	37	32	27	25	21	18	23	17	12	11	62	56	38	19	12	23	24	24	24	31	30	27
26	22	29	33	53	90	139	177	183	224	103	175	123	63	43	88	147	188	88	72	98	29	41	66	53	97
D	63	73	74	56	102	140	179	108	125	181	104	174	214	56	64	73	52	78	38	68	43	52	68	47	93
28	65	73	72	49	45	54	57	44	48	67	66	58	88	73	40	51	39	46	41	59	45	34	30	24	53
29	24	29	36	27	39	64	83	92	51	55	64	42	24	43	56	17	48	51	32	30	35	60	88	73	48
30	72	114	78	56	73	109	53	80	139	112	137	43	57	93	52	41	47	34	39	45	59	68	110	138	77
Mean	61	69	69	71	83	90	93	78	76	67	65	66	63	67	69	61	54	65	59	65	59	59	60	59	68
5Q Mean	27	37	40	35	37	47	44	46	66	58	35	24	30	50	45	30	21	30	28	22	23	25	25	27	35
5D Mean	85	89	97	122	136	172	179	165	163	116	118	122	123	128	114	123	113	104	73	79	67	75	70	54	112

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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
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2	-289	-363	-229	-276	-131	-282	-248	-155	-197	-364	-607	-372	-90	-75	-508	-245	-179	-348	-214	-188	-140	-157	-207	-49	-246
3	-7	-22	-43	-64	-180	-218	-81	-88	-196	-205	-221	-287	-483	-470	-832	-354	-107	-350	-311	-446	-171	-81	-108	-214	-231
4	-257	-100	-82	-380	-619	-496	-212	-129	-92	-142	-183	-402	-96	-17	-29	-119	-327	-348	-426	-400	-359	-289	-57	-130	-237
5	-293	-518	-323	-146	-23	-16	-37	-15	-82	-418	-325	-410	-329	-90	-30	-50	-279	-331	-311	-181	-368	-154	-412	-717	-244
D	-486	-295	-371	-478	-667	-664	-671	-552	-592	-409	-769	-1108	-823	-705	-534	-410	-298	-404	-266	-62	-109	-68	-36	-36	-451
7	-31	-73	-140	-209	-180	-141	-107	-161	-249	-323	-81	-87	-171	-164	-117	-104	-143	-123	-235	-150	-29	-35	-44	-35	-130
8	-48	-105	-47	-14	-17	-65	-44	-70	-107	-82	-84	-106	-238	-125	-103	-53	-75	-109	-50	-34	-30	-58	-81	-171	-80
9	-99	-15	-13	-21	-112	-102	-103	-165	-104	-121	-123	-202	-255	-288	-583	-463	-68	-17	-156	-359	-210	-60	-338	-158	-172
10	-134	-81	-98	-372	-252	-121	-194	-36	-39	-71	-230	-285	-176	-53	-38	-39	-46	-72	-369	-114	-88	-50	-65	-53	-128
11	-35	-34	-96	-96	-118	-95	-81	-9	-51	-355	-223	-101	-78	-24	-26	-25	-26	-19	-72	-71	-44	-51	-47	-51	-76
12	-32	-27	-4	-1	5	-1	-15	-60	-83	-17	-15	-10	-12	-11	-17	-49	-56	-71	-97	-106	-48	-5	-9	-16	-31
13	-7	-7	0	0	-9	-6	-4	-10	-92	-82	-47	-44	-15	-25	-80	-91	-78	-308	-201	-104	-94	-68	-17	-7	-58
14	-2	-6	-14	-12	-93	-25	-41	-48	-49	-48	-6	-8	-24	-16	-47	-39	-129	-220	-219	-120	-170	-244	-198	-123	-79
15	-22	-12	-2	0	-6	-16	-47	-60	-159	-74	-2	-3	-31	-48	-122	-74	-83	-118	-116	-38	-238	-244	-89	-11	-67
16	-9	-45	-58	-12	0	1	-31	-25	-53	-37	-8	-9	-9	-34	-159	-49	-80	-213	-66	-11	-8	-10	-16	-2	-39
17	-3	-7	-12	-83	-218	-108	-26	-7	-10	-16	-8	-11	-14	-8	-12	-15	-41	-13	-28	-269	-98	-42	-9	-14	-45
18	-19	-7	-3	-7	-2	0	0	-1	-18	-58	-53	-201	-334	-245	-216	-149	-164	-107	-108	-46	-10	-4	-9	-36	-75
19	-71	-219	-182	-234	-258	-285	-212	-20	-9	-14	-66	-390	-273	-305	-281	-169	-149	-280	-464	-442	-259	-100	-183	-140	-209
20	-86	-196	-280	-276	-322	-242	-255	-303	-578	-522	-410	-554	-500	-696	-356	-283	-175	-65	-38	-26	-99	-295	-269	-158	-291
21	-200	-161	-106	-117	-51	-66	-159	-40	-28	-15	-180	-339	-185	-64	-75	-133	-159	-137	-54	-10	-25	-71	-156	-82	-109
22	-23	-29	-66	-147	-52	-16	-6	-4	-13	-211	-233	-77	-18	-21	-31	-175	-258	-166	-52	-29	-95	-170	-85	-35	-84
23	-6	-1	-5	-4	-32	-7	-4	-3	-5	-2	-1	-5	-42	-161	-27	-136	-70	-33	-38	-47	-25	-72	-98	-33	-36
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26	2	1	2	-15	-95	-50	-123	-164	-248	-413	-1145	-1095	-652	-518	-126	-300	-618	-247	-257	-209	-87	-23	-65	-57	-271
27	-70	-134	-274	-172	-200	-305	-379	-305	-273	-626	-502	-675	-496	-66	-197	-484	-309	-499	-443	-177	-118	-159	-117	-89	-295
28	-136	-100	-45	-20	-24	-83	-79	-206	-298	-356	-265	-191	-218	-103	-149	-149	-299	-208	-323	-123	-42	-15	-22	-25	-145
29	-14	-6	-8	-16	-47	-161	-57	-35	-8	-26	-215	-251	-205	-194	-98	-120	-223	-70	-31	-23	-304	-277	-149	-113	-110
30	-149	-316	-48	-36	-117	-228	-157	-312	-412	-388	-432	-766	-425	-106	-90	-73	-96	-55	-19	-223	-193	-115	-163	-285	-217
Mean	-89	-99	-95	-119	-136	-133	-119	-112	-150	-191	-224	-279	-222	-172	-178	-159	-164	-177	-175	-140	-122	-105	-111	-99	-149
5Q Mean	-21	-28	-15	-15	-9	-20	-33	-68	-89	-46	-32	-35	-72	-98	-77	-76	-72	-84	-65	-52	-38	-35	-47	-49	-49
5D Mean	-179	-144	-201	-264	-380	-351	-328	-290	-356	-422	-601	-766	-513	-400	-248	-319	-345	-312	-286	-174	-154	-166	-108	-94	-308

Date	AE Index (Provisional Hourly mean values, unit nT)																									
	November 1994																									
	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	228	194	401	417	365	235	195	251	297	319	316	444	492	442	308	364	280	281	212	184	184	276	318	194	300	
2	389	468	315	370	235	404	409	244	279	437	669	480	133	138	641	292	234	473	305	314	261	247	299	108	339	
3	71	75	102	112	282	325	163	179	273	259	283	443	533	537	969	461	203	489	436	585	246	122	154	295	317	
D	4	362	194	170	492	741	710	414	256	188	178	231	491	130	41	56	160	407	459	576	553	510	457	170	205	340
	5	396	622	397	271	89	42	58	36	138	459	371	523	427	155	63	65	305	368	373	249	437	210	488	852	308
D	6	693	468	568	748	915	919	907	795	780	511	885	1296	1019	984	830	626	435	595	353	109	169	112	46	52	617
	7	46	136	182	293	297	239	147	211	289	377	144	124	227	226	153	110	176	176	284	181	58	63	63	56	177
Q	8	75	146	81	41	46	106	82	106	153	145	134	140	298	206	149	76	101	143	82	55	52	81	107	201	117
	9	157	58	43	57	157	156	171	225	163	207	219	368	469	402	806	694	203	74	255	456	316	208	500	357	280
	10	274	207	220	556	451	253	362	125	90	123	312	384	232	101	82	73	74	121	447	233	171	122	144	113	220
	11	89	81	161	162	202	186	161	62	90	407	280	143	115	51	49	43	38	34	84	86	57	73	70	79	117
	12	65	90	70	52	44	57	96	122	157	107	45	27	28	34	52	85	75	101	128	125	75	33	36	49	73
Q	13	38	42	23	20	50	41	46	40	113	104	69	69	38	54	122	123	97	343	212	124	110	100	42	32	85
	14	26	47	72	46	180	98	116	162	112	88	51	34	49	35	85	81	157	274	356	260	349	409	379	325	158
	15	134	77	51	34	41	55	113	135	253	178	83	45	70	90	148	110	126	144	179	90	321	378	193	58	129
	16	51	136	128	52	42	37	84	68	86	71	35	55	35	72	210	95	103	242	109	32	25	26	33	23	77
	17	26	29	49	137	360	200	113	81	67	75	47	42	35	36	45	82	39	46	322	119	88	30	40	89	
	18	50	33	34	35	26	22	32	38	54	93	90	270	440	340	285	236	282	213	169	109	47	33	44	80	127
	19	148	364	401	366	466	612	523	107	68	59	156	430	315	390	387	267	239	567	722	740	509	209	252	193	354
D	20	117	274	380	395	442	358	365	474	765	686	565	593	614	939	458	426	290	120	62	60	155	371	366	243	397
	21	320	263	197	190	99	110	248	113	82	34	215	381	217	100	115	186	176	163	75	43	53	97	206	120	158
	22	59	77	112	212	132	69	43	41	53	261	259	95	38	53	87	215	284	195	74	53	123	201	115	66	122
Q	23	37	32	39	36	72	44	35	27	28	29	21	30	59	187	48	163	86	60	56	67	48	100	122	57	62
Q	24	36	29	39	30	35	100	132	294	427	219	124	82	93	145	169	93	124	228	143	86	75	54	56	41	119
Q	25	34	35	49	93	35	34	48	32	22	27	21	28	38	178	200	125	91	41	61	45	66	41	44	35	59
D	26	19	26	29	69	185	189	301	349	474	517	1320	1219	716	563	216	449	808	336	330	308	116	64	131	110	368
D	27	133	208	349	229	303	447	560	415	400	809	608	851	711	124	262	558	361	578	481	246	161	212	185	136	389
	28	201	173	118	70	70	138	137	252	348	424	332	251	307	177	190	201	339	254	365	183	88	49	52	49	199
	29	38	35	45	43	87	225	141	127	59	82	280	294	229	238	156	137	272	122	63	54	339	338	187	160	295
	30	222	431	127	93	191	338	210	394	552	501	571	811	484	200	144	115	144	90	59	269	253	184	274	423	295
Mean	151	168	165	190	221	224	213	192	228	259	291	348	286	241	249	222	219	244	236	207	183	165	171	159	218	
5Q Mean	49	66	55	50	46	68	78	116	157	105	69	61	103	150	123	108	95	114	94	75	63	61	73	76	85	
5D Mean	264	234	299	386	517	524	509	457	521	540	721	890	638	530	364	443	460	417	360	255	222	243	179	149	422	

AO Index (Provisional Hourly mean values, unit nT) November 1994

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
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2	-94	-128	-71	-91	-13	-79	-44	-33	-57	-145	-272	-131	-24	-6	-186	-99	-61	-111	-61	-30	-9	-33	-57	4	-76
3	27	14	7	-8	-39	-55	0	-60	-75	-79	-66	-216	-200	-347	-123	-6	-105	-92	-153	-48	-19	-31	-66	-72	
4	-75	-2	2	-133	-248	-141	-5	-1	1	-53	-67	-156	-31	2	-1	-38	-123	-118	-138	-123	-103	-60	26	-26	-67
5	-94	-206	-123	-10	20	4	-8	2	-13	-188	-139	-148	-115	-13	1	-17	-125	-147	-125	-57	-149	-47	-168	-290	-90
D	-139	-61	-87	-103	-208	-204	-217	-155	-201	-153	-326	-459	-313	-212	-118	-96	-80	-106	-89	-7	-23	-11	-13	-10	-141
7	-8	-5	-48	-62	-31	-21	-34	-56	-105	-135	-9	-25	-57	-50	-40	-48	-55	-35	-93	-59	0	-3	-11	-7	-41
8	-9	-32	-6	5	4	-12	-3	-17	-31	-10	-17	-36	-88	-22	-28	-14	-24	-37	-9	-6	-3	-17	-27	-70	-21
9	-20	13	8	6	-33	-24	-17	-52	-23	-17	-13	-18	-20	-87	-179	-115	32	18	-28	-131	-51	42	-88	20	-32
10	2	21	11	-93	-27	5	-13	25	4	-9	-73	-92	-60	-3	2	-3	-9	-11	-145	1	-2	10	6	3	-18
11	8	5	-15	-14	-17	-2	-1	20	-6	-151	-82	-30	-21	0	-2	-3	-6	-2	-29	-27	-15	-14	-11	-11	-18
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14	9	16	20	10	-3	23	16	31	6	-4	18	7	0	0	-4	0	-50	-83	-41	8	4	-39	-8	38	0
15	44	25	22	16	12	10	8	6	-32	14	39	19	3	-3	-47	-18	-20	-45	-26	5	-77	-54	7	16	-3
16	15	22	5	13	21	19	9	7	-10	-1	8	18	7	0	-54	-1	-29	-91	-10	4	3	1	0	8	-1
17	9	7	12	-15	-38	-8	30	32	22	20	15	8	2	9	5	6	0	5	-5	-107	-88	2	5	5	0
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19	2	-37	17	-50	-24	19	48	32	23	14	11	-175	-115	-109	-87	-35	-29	2	-102	-72	-5	4	-56	-43	-32
D	-26	-58	-90	-78	-101	-63	-72	-66	-196	-179	-127	-256	-193	-226	-128	-70	-29	-5	-7	3	-21	-109	-85	-36	-92
21	-39	-29	-7	-22	-1	-11	-35	15	12	1	-72	-148	-76	-13	-17	-40	-71	-55	-16	10	1	-22	-52	-21	-29
22	6	8	-9	-41	13	17	14	15	12	-80	-103	-29	0	4	11	-68	-115	-68	-15	-2	-33	-69	-26	-2	-23
23	11	15	13	13	3	14	12	10	8	11	8	8	-12	-67	-3	-54	-27	-3	-10	-13	-1	-21	-36	-4	-5
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25	3	8	6	-9	13	9	1	4	6	9	6	-1	-6	-25	-42	-23	-25	-8	-6	1	-8	3	8	12	-2
D	12	15	17	18	-2	43	26	9	-12	-155	-484	-485	-294	-237	-18	-75	-214	-78	-92	-55	-28	8	0	-2	-86
D	-3	-30	-99	-57	-48	-82	-99	-98	-73	-222	-198	-250	-140	-4	-66	-204	-127	-209	-201	-53	-36	-53	-24	-20	-100
28	-34	-13	13	13	10	-14	-10	-80	-124	-143	-98	-65	-64	-15	-53	-48	-129	-80	-140	-31	1	9	3	0	-45
29	4	11	13	5	-3	-48	12	27	20	14	-74	-104	-90	-74	-20	-50	-86	-9	0	3	-134	-107	-29	-19	-30
30	-38	-100	14	9	-21	-58	-52	-115	-136	-137	-147	-361	-183	-6	-18	-15	-24	-10	9	-87	-66	-23	-26	-72	-69
Mean	-14	-15	-13	-24	-26	-21	-12	-17	-36	-61	-78	-106	-79	-51	-53	-48	-53	-55	-56	-37	-30	-22	-25	-20	-40
5Q Mean	2	4	11	9	13	12	4	-11	-11	5	0	-5	-20	-23	-15	-22	-24	-26	-17	-14	-6	-5	-10	-11	-6
5D Mean	-46	-27	-51	-70	-121	-89	-73	-62	-96	-152	-240	-321	-194	-135	-66	-96	-114	-103	-105	-47	-42	-45	-19	-18	-97

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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
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D	85	51	43	42	134	79	139	73	72	79	57	35	52	213	134	171	141	142	68	54	78	79	67	54	89
3	86	87	123	105	109	84	72	84	45	41	35	31	56	12	82	38	17	29	33	36	31	37	42	57	57
Q	65	62	57	54	47	52	89	85	106	104	68	67	86	62	38	28	20	25	18	39	16	38	40	26	54
5	23	27	28	40	37	43	58	70	80	132	116	69	67	104	38	55	43	26	23	29	25	55	58	52	54
6	35	42	53	64	83	87	137	221	110	58	100	57	58	73	111	178	254	201	91	136	126	96	143	156	111
7	89	102	123	113	85	104	108	82	46	70	61	47	62	89	41	39	93	59	82	64	68	98	139	79	81
8	133	92	110	64	85	103	96	137	95	102	94	99	56	66	50	38	33	52	98	68	122	133	141	132	92
9	144	181	109	80	74	77	96	98	61	38	44	68	30	18	35	64	25	47	48	34	50	115	151	125	75
10	174	157	167	177	110	67	40	25	27	22	27	26	39	25	29	59	43	76	81	51	43	47	40	59	67
11	64	45	61	55	55	71	55	41	50	44	44	27	42	65	65	32	104	83	106	153	183	165	124	128	78
12	99	61	118	91	102	86	50	51	50	53	70	43	30	56	40	111	71	21	41	71	48	67	103	80	67
13	71	89	92	150	136	112	161	131	75	91	95	109	109	100	39	21	64	35	25	33	24	30	33	73	79
14	103	95	93	46	32	29	27	30	27	33	66	38	34	31	45	45	34	33	28	26	57	30	53	43	45
D	30	42	59	82	104	109	99	58	133	126	92	131	72	112	207	194	200	148	184	161	108	106	113	197	119
16	136	91	92	84	87	111	84	63	128	57	25	85	47	40	64	73	62	39	38	47	41	41	32	31	67
17	44	33	46	43	44	45	52	111	101	44	59	39	72	7	87	30	48	35	34	35	57	37	29	39	49
Q	28	34	35	38	40	61	70	84	67	62	52	47	31	40	53	37	19	34	40	34	22	34	38	34	43
19	38	43	42	40	59	46	50	50	65	85	72	48	43	55	56	33	22	33	37	31	24	30	33	54	45
20	87	121	131	139	133	68	46	49	86	68	63	134	126	81	50	26	37	66	49	80	53	57	64	84	79
Q	99	62	56	75	68	72	102	82	54	34	21	18	12	5	13	15	15	31	56	54	31	32	29	34	45
Q	51	58	84	132	101	50	44	37	43	42	28	24	19	26	59	34	13	19	16	17	18	24	26	25	41
23	21	66	133	128	66	41	43	54	43	50	56	47	26	35	65	23	39	49	57	56	50	34	50	79	55
D	97	93	114	156	168	134	153	104	171	94	115	115	146	102	209	119	164	290	81	87	105	108	116	91	130
D	109	121	119	108	97	87	76	89	91	69	64	69	80	73	107	64	28	47	49	35	63	68	138	99	81
26	93	108	106	75	86	87	93	98	80	45	66	82	47	50	51	62	51	76	106	117	132	120	109	107	85
27	85	66	63	58	41	40	32	40	41	17	23	44	53	21	81	31	16	8	22	35	57	97	101	90	48
28	146	81	39	44	49	29	27	31	34	39	39	34	64	42	33	19	26	29	41	31	44	39	66	95	47
29	123	78	69	56	76	73	44	32	95	128	65	25	31	24	48	91	74	51	49	50	47	37	34	31	60
30	31	30	33	35	60	98	155	126	61	75	38	31	36	56	46	40	34	29	37	33	31	33	29	35	50
Q	24	26	28	35	42	57	103	79	38	18	23	51	45	46	43	42	14	28	38	35	43	48	56	44	42
Mean	80	74	81	81	80	72	79	76	71	64	61	57	54	56	67	60	59	60	55	56	59	64	73	74	67
5Q Mean	53	48	52	66	59	58	81	73	61	52	38	41	38	35	41	31	16	27	33	35	26	35	37	32	44
5D Mean	71	69	77	90	117	99	120	109	115	85	85	81	81	114	153	145	157	165	94	94	96	91	115	119	106

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2	-158	-62	-32	-33	-212	-280	-206	-324	-300	-443	-63	-60	-424	-639	-515	-462	-322	-431	-213	-30	-174	-413	-208	-140	-256
3	-87	-312	-346	-151	-178	-146	-266	-57	-33	-9	-38	-187	-378	-157	-10	-17	-51	-44	-84	-203	-173	-179	-200	-138	
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5	-7	-16	-46	-59	-14	-9	-48	-84	-102	-271	-115	-168	-356	-251	-186	-247	-117	-41	-15	-146	-26	-24	-67	-101	-105
6	-57	-25	-17	-17	-8	-3	-231	-332	-112	-29	-98	-71	-365	-389	-223	-215	-309	-440	-201	-167	-258	-428	-260	-40	-179
7	-13	-68	-237	-124	-46	-68	-147	-150	-42	-66	-203	-80	-38	-159	-151	-62	-209	-297	-118	-51	-124	-208	-131	-125	-121
8	-327	-171	-51	-16	-51	-85	-84	-148	-229	-154	-375	-140	-100	-168	-40	-37	-147	-135	-83	-53	-166	-96	-113	-28	-125
9	-146	-87	-10	-11	-2	-14	-16	-23	-13	-108	-250	-69	-24	-35	-94	-54	-54	-85	-85	-98	-50	-176	-107	-78	-70
10	-126	-205	-90	-81	-8	-3	-5	-5	-19	-19	-23	-31	-11	-17	-10	-95	-283	-239	-134	-140	-39	-49	-59	-30	-72
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13	-53	-69	-156	-81	-5	-204	-138	3	-3	-67	-94	-173	-267	-73	-10	-17	-185	-240	-50	-12	-11	-13	-11	-45	-82
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D	-9	-73	-101	-163	-102	-100	-317	-152	-161	-327	-309	-428	-500	-159	-498	-531	-362	-210	-220	-298	-275	-99	-256	-592	-260
16	-193	-39	-136	-187	-71	-108	-137	-301	-194	-74	-57	-247	-542	-409	-283	-87	-18	-61	-100	-13	-31	-72	-59	-17	-143
17	-34	-22	-19	-17	-18	-11	-117	-196	-100	-23	-196	-272	-373	-340	-348	-175	-311	-108	-73	-107	-294	-86	-47	-41	-139
Q	-49	-19	-14	-22	-25	-77	-93	-52	-56	-88	-83	-84	-146	-129	-100	-80	-140	-255	-119	-170	-109	-88	-101	-59	-90
19	-25	-29	-41	-30	-181	-48	-51	-116	-166	-196	-208	-180	-233	-288	-142	-64	-67	-10	-8	0	1	-3	-5	-38	-89
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D	-164	-101	-298	-306	-114	-146	-311	-190	-479	-536	-291	-232	-526	-597	-565	-285	-304	-543	-439	-161	-98	-276	-437	-110	-313
D	-76	-250	-396	-98	-67	-139	-177	-307	-178	-179	-276	-290	-413	-321	-154	-59	-124	-342	-179	-90	-140	-140	-279	-141	-201
26	-185	-324	-192	-34	-55	-107	-176	-4	-33	-205	-251	-96	-40	-46	-165	-143	-282	-373	-262	-185	-201	-238	-111	-63	-157
27	-89	-35	-174	-39	-4	-8	-9	-6	-33	-13	-66	-225	-339	-283	-153	-79	-62	-122	-87	-40	-349	-362	-187	-228	-125
28	-271	-43	-8	-10	-28	-12	-6	-4	-4	-48	-65	-93	-313	-108	-4	-45	-352	-170	-15	-20	-14	-216	-265	-162	-95
29	-299	-304	-25	-38	-109	-172	-133	-126	-302	-360	-139	-68	-80	-213	-276	-171	-123	-16	-38	-27	-8	-3	-1	-10	-127
30	-7	-13	-54	-28	-107	-318	-182	-113	-93	-76	-51	-76	-58	-166	-176	-166	-65	-51	-39	-41	-30	0	0	-4	-80
Q	-3	-2	-2	-5	-12	-94	-61	-5	-19	-31	-107	-186	-110	-95	-125	-159	-143	-159	-146	-49	-16	-82	-16	-2	-68
Mean	-93	-85	-92	-65	-52	-75	-99	-98	-103	-132	-150	-132	-189	-192	-174	-137	-154	-160	-116	-94	-110	-123	-112	-96	-118
5Q Mean	-39	-38	-33	-22	-18	-40	-53	-37	-43	-55	-87	-90	-81	-97	-84	-68	-75	-101	-86	-97	-49	-35	-23	-13	-57
5D Mean	-92	-102	-168	-123	-100	-133	-248	-261	-246	-302	-207	-216	-445	-421	-391	-310	-284	-393	-250	-149	-189	-271	-288	-204	-241

Date	AE Index (Provisional Hourly mean values, unit nT)																								
	December 1994																								
	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	81	224	449	154	52	71	238	306	217	476	149	40	167	435	511	253	64	58	82	89	260	257	310	211
	244	115	76	76	348	361	346	398	373	523	121	96	477	853	649	634	464	574	282	85	253	493	276	195	346
	175	401	471	258	289	231	339	142	80	51	45	70	244	390	240	50	35	80	77	120	235	211	221	258	196
Q	194	213	185	116	93	80	173	217	247	253	268	214	218	135	55	39	29	48	93	272	130	40	39	28	141
	31	44	75	100	52	52	106	154	184	404	231	238	424	357	225	303	161	68	38	175	51	80	126	155	160
D	94	68	71	83	92	92	369	555	222	88	199	129	424	463	335	394	564	641	293	304	384	524	403	197	291
	102	171	361	239	132	172	256	233	88	136	265	128	100	250	193	102	302	357	201	116	193	307	271	205	203
	461	264	162	81	137	189	182	285	326	256	471	240	156	235	91	76	181	187	182	121	289	229	254	160	217
	291	269	120	92	77	92	113	122	74	147	295	138	55	54	130	119	80	133	133	132	101	291	258	204	147
10	301	363	259	259	119	70	45	30	46	42	51	58	51	43	40	155	327	315	215	192	83	98	100	90	140
	74	47	67	64	61	80	54	42	57	58	44	50	102	200	166	114	325	382	467	363	450	196	143	253	161
11	325	85	153	140	199	239	102	101	98	127	246	160	92	184	283	286	153	102	168	394	149	184	354	133	186
12	125	159	249	232	142	317	300	128	78	158	190	283	377	174	49	39	250	276	75	46	36	43	44	119	162
13	101	134	94	61	41	33	30	35	31	65	192	189	90	56	111	191	38	34	33	108	326	232	67	53	98
14	40	116	161	247	208	209	416	212	296	455	403	560	574	272	705	726	563	358	404	460	383	205	371	790	381
D	331	132	229	273	159	219	222	365	323	131	83	333	590	450	348	161	80	101	139	60	72	114	92	49	211
16	80	57	67	61	63	56	169	309	202	68	257	312	447	347	436	206	359	144	108	143	352	123	76	81	188
17	79	55	51	61	66	139	163	136	123	151	137	133	178	171	154	119	160	289	159	205	132	123	140	94	134
18	65	73	84	71	242	96	102	167	231	282	281	230	278	345	199	99	91	44	45	31	22	33	40	93	135
19	170	183	157	147	122	55	37	44	115	126	211	308	222	105	54	49	153	154	264	111	78	88	155	196	138
Q	110	75	63	96	85	82	134	83	58	42	66	51	25	181	158	82	91	86	127	72	36	38	30	42	80
Q	58	68	103	138	95	44	43	36	43	44	32	28	29	45	98	65	25	34	38	35	21	25	26	25	50
23	28	134	209	145	61	36	41	67	92	380	343	118	40	49	113	94	95	71	98	53	44	45	78	284	113
D	263	195	414	463	284	281	464	295	651	630	406	348	672	700	774	405	468	834	521	249	203	385	555	202	444
D	186	372	517	208	166	227	254	397	270	248	341	361	495	396	262	124	153	390	228	125	204	208	418	241	283
26	280	433	299	110	143	195	269	103	114	252	318	179	87	98	218	206	333	449	369	303	333	359	221	172	243
27	175	102	239	98	45	48	42	47	75	31	90	271	394	305	235	111	79	130	110	76	407	459	289	319	174
28	418	125	48	55	79	42	33	36	39	87	105	128	378	151	38	65	378	200	57	52	59	256	331	258	142
29	423	384	95	96	187	246	178	158	397	490	205	94	112	238	325	263	198	68	88	77	56	40	36	42	187
30	39	44	89	65	169	416	338	240	155	152	90	108	95	224	223	207	99	81	76	74	61	34	31	40	131
Q	28	30	32	41	55	152	165	85	58	49	130	238	157	142	170	202	158	188	185	85	59	132	73	47	111
Mean	174	161	174	149	134	148	179	176	175	198	212	191	245	250	242	199	214	222	171	152	170	188	186	172	187
5Q Mean	93	88	86	90	78	99	135	111	105	107	126	132	121	134	127	101	92	129	120	133	75	71	61	47	103
5D Mean	165	173	247	215	219	234	369	371	362	388	294	298	528	536	545	456	442	559	345	244	285	363	404	325	349

AO Index (Provisional Hourly mean values, unit nT)

December 1994

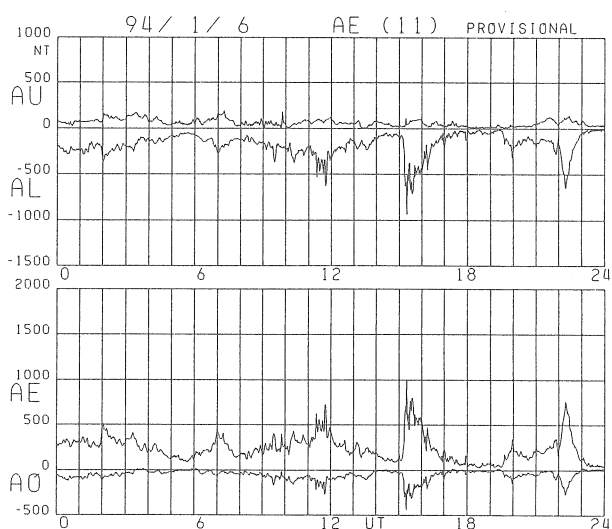
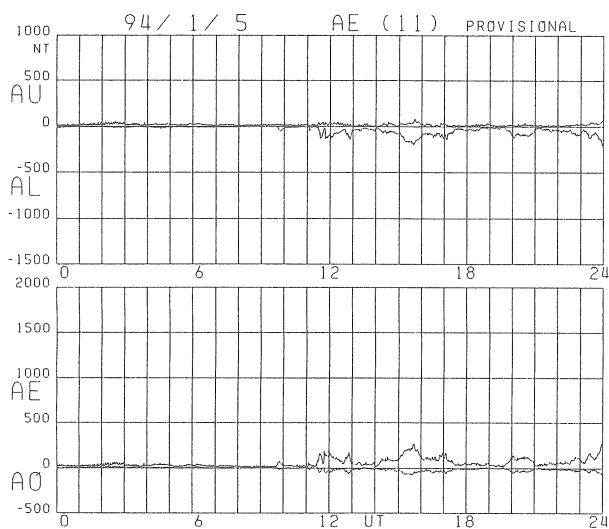
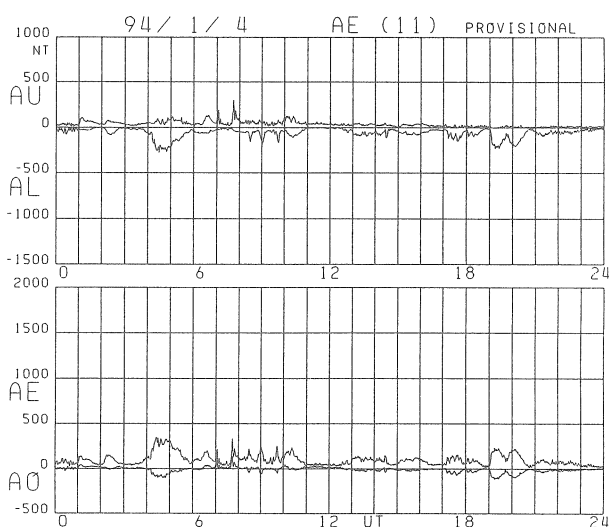
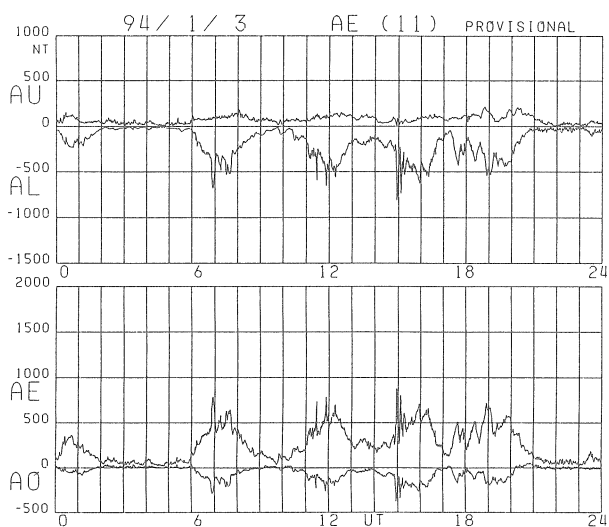
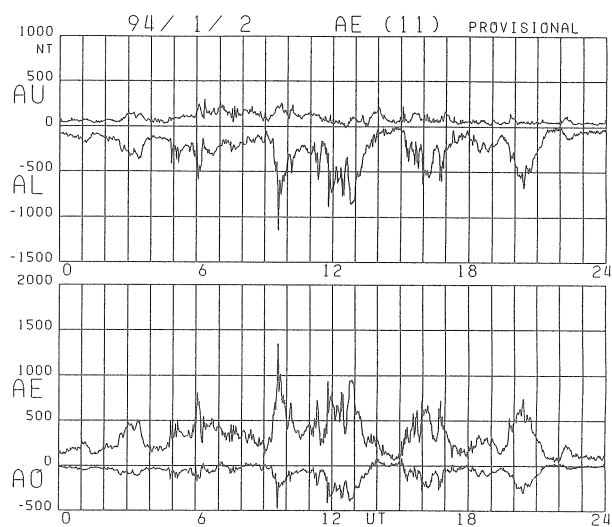
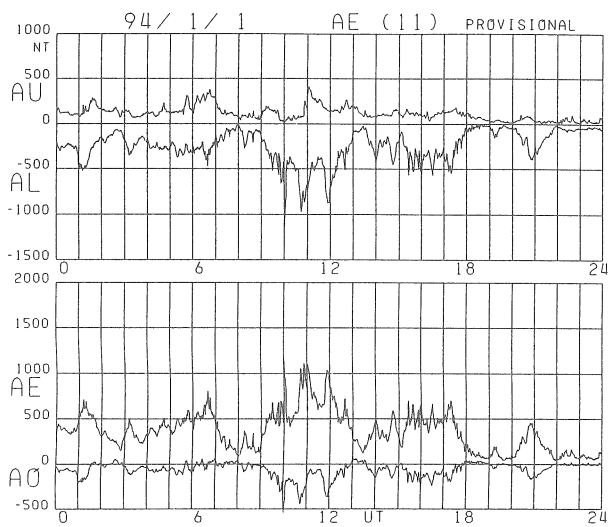
Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
D	17	20	-23	-94	7	21	17	-52	-110	-22	-122	-26	10	-45	-149	-179	-84	10	8	-11	-3	-69	-47	-79	-42
D	-35	-4	6	4	-38	-99	-32	-124	-113	-181	-2	-11	-185	-212	-189	-144	-89	-143	-71	11	-47	-166	-70	-42	-82
Q	0	-111	-111	-22	-33	-30	-96	13	6	15	12	-3	-64	-182	-37	13	0	-10	-5	-23	-84	-67	-67	-70	-40
Q	-30	-42	-34	-2	1	12	2	-22	-16	-21	-64	-39	-21	-4	11	8	6	1	-27	-96	-48	18	20	12	-15
Q	7	5	-8	-8	11	16	5	-6	-10	-69	0	-48	-143	-72	-73	-95	-36	-7	4	-57	0	14	-4	-23	-25
D	-10	8	17	23	36	42	-46	-55	-1	14	1	-6	-152	-157	-56	-18	-27	-118	-54	-15	-65	-165	-58	57	-33
Q	37	17	-56	-5	19	18	-18	-33	1	2	-70	-16	11	-34	-54	-10	-57	-118	-17	6	-27	-54	4	-22	-19
Q	-96	-38	29	23	16	8	6	-5	-66	-25	-139	-20	-21	-50	4	0	-56	-41	7	7	-21	18	13	51	-16
Q	0	46	49	34	36	31	39	37	23	-34	-102	0	2	-7	-28	5	-13	-18	-18	-31	0	-29	21	23	2
Q	23	-23	37	47	51	32	17	9	4	1	1	-2	13	4	9	-17	-119	-80	-25	-43	2	0	-9	14	-2
Q	26	22	28	23	25	31	28	20	21	15	22	3	-7	-33	-16	-23	-57	-106	-126	-27	-41	66	52	2	-2
Q	-62	19	41	21	3	-32	0	1	1	-9	-51	-35	-15	-34	-100	-30	-4	-29	-42	-124	-25	-24	-73	13	-24
Q	8	9	-31	34	65	-45	11	67	36	11	0	-31	-78	13	14	2	-59	-101	-12	9	6	8	11	14	-1
Q	51	28	45	15	12	13	12	13	12	0	-29	-55	-9	4	-9	-49	15	15	12	-26	-104	-84	20	17	-3
D	10	-14	-20	-40	0	4	-108	-46	-13	-99	-107	-147	-213	-22	-145	-167	-80	-30	-18	-67	-82	3	-70	-196	-69
Q	-28	26	-21	-50	7	1	-25	-118	-32	-8	-15	-80	-247	-183	-108	-6	22	-11	-30	16	5	-15	-12	6	-37
Q	5	5	13	13	12	16	-31	-41	1	10	-68	-115	-149	-165	-129	-71	-130	-36	-19	-35	-117	-23	-8	0	-44
Q	-9	7	10	7	7	-7	-11	15	6	-12	-15	-17	-57	-43	-22	-20	-60	-110	-38	-67	-42	-25	-30	-11	-22
Q	6	6	0	5	-60	-1	0	-32	-49	-54	-67	-65	-94	-115	-42	-15	-21	10	14	16	13	13	13	7	-21
Q	2	29	52	65	71	41	27	27	28	4	-40	-18	15	28	22	1	-39	-11	-81	24	14	12	-12	-13	10
Q	44	25	25	27	25	31	35	41	25	13	-11	-6	0	-84	-65	-24	-28	-11	-7	18	12	13	14	13	5
Q	22	24	32	63	54	27	22	19	21	19	12	10	5	3	10	2	0	2	-2	0	7	11	13	12	16
Q	7	0	29	55	35	23	23	20	-1	-138	-114	-10	6	11	9	-22	-7	14	7	29	28	11	11	-61	-1
D	-33	-3	-90	-74	26	-5	-78	-42	-153	-219	-87	-57	-189	-247	-177	-82	-69	-125	-178	-36	3	-83	-160	-9	-90
D	16	-64	-137	5	14	-25	-50	-108	-42	-54	-105	-109	-165	-123	-23	2	-47	-146	-64	-26	-37	-35	-70	-20	-59
Q	-45	-107	-42	20	15	-9	-41	46	22	-79	-92	-6	3	2	-56	-39	-114	-147	-77	-33	-34	-58	-1	22	-35
Q	-1	15	-54	9	18	16	11	16	4	1	-20	-89	-142	-130	-35	-23	-22	-55	-32	-2	-145	-131	-42	-68	-37
Q	-62	18	15	16	10	8	9	13	14	-3	-12	-28	-123	-32	14	-12	-162	-69	12	5	14	-87	-98	-33	-23
Q	-87	-112	21	8	-16	-48	-43	-46	-102	-115	-36	-21	-23	-93	-113	-39	-24	17	5	11	19	16	16	10	-33
Q	11	7	-10	3	-22	-109	-13	6	-15	0	-6	-21	-9	-54	-63	-61	-15	-10	0	-3	0	16	14	15	-14
Q	10	11	12	14	14	-18	20	36	9	-5	-41	-66	-32	-24	-40	-57	-63	-64	-53	-6	13	-16	19	20	-12
Mean	-6	-5	-5	7	13	-1	-9	-10	-15	-33	-44	-36	-66	-67	-52	-37	-46	-49	-29	-18	-25	-29	-19	-10	-25
5Q Mean	7	5	9	21	20	9	13	17	9	-1	-23	-23	-21	-30	-21	-18	-29	-36	-25	-30	-11	0	7	9	-5
5D Mean	-10	-15	-44	-16	7	-16	-62	-75	-64	-107	-60	-66	-180	-152	-118	-81	-62	-112	-77	-26	-45	-89	-85	-42	-66

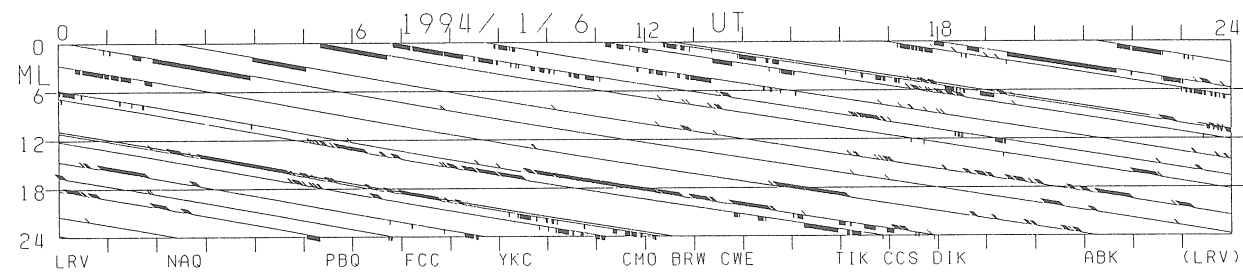
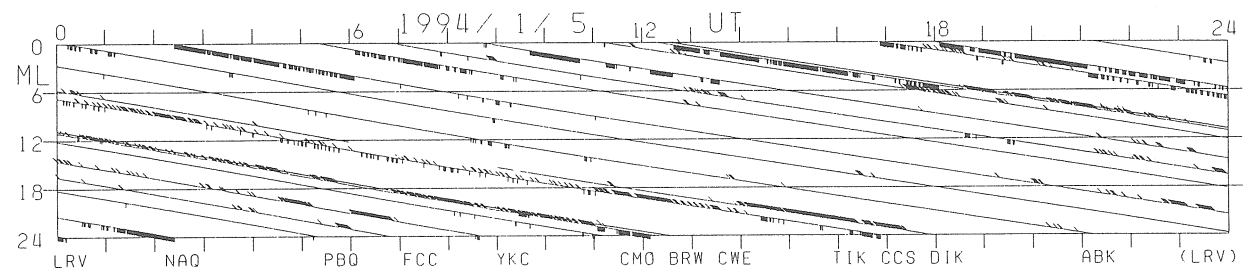
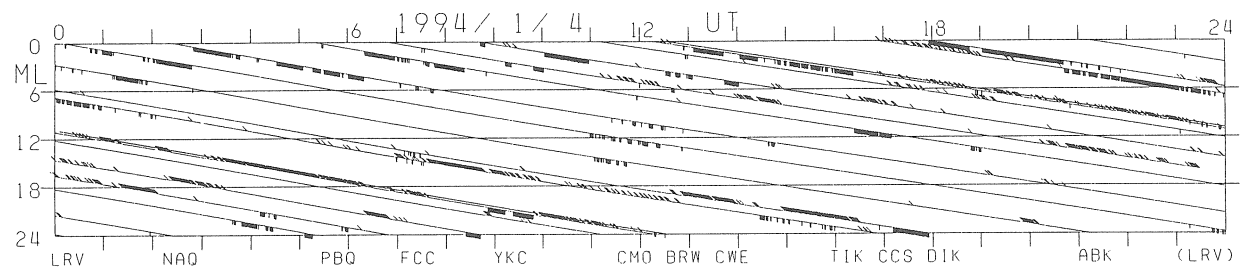
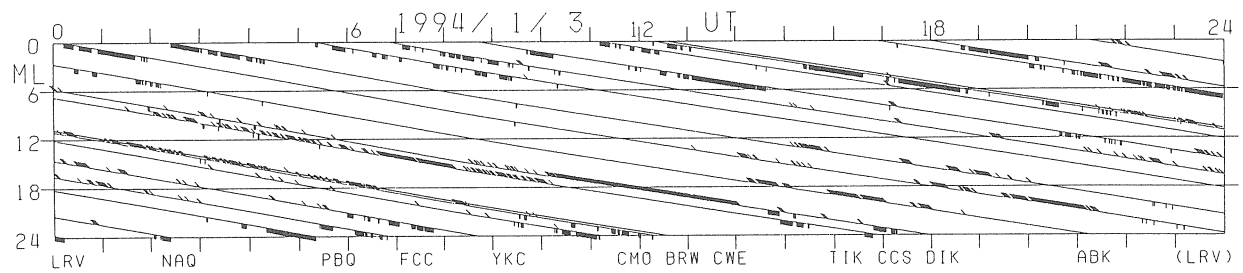
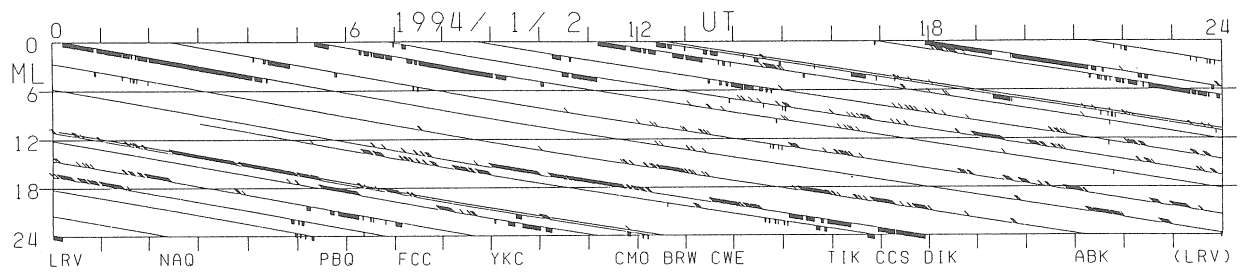
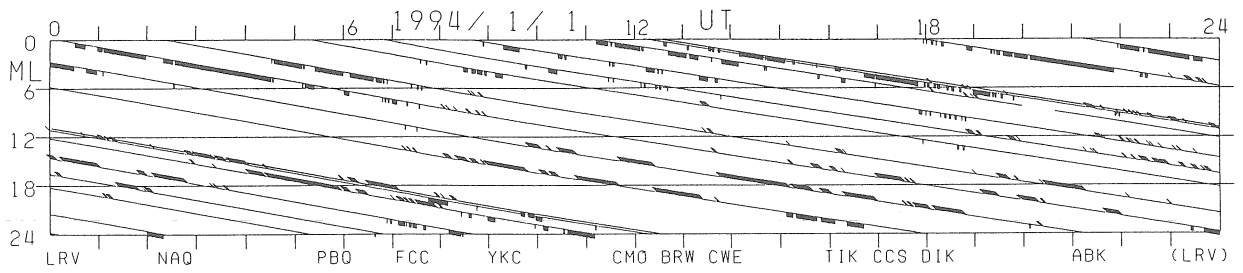
FIGURE 2 (on even pages)

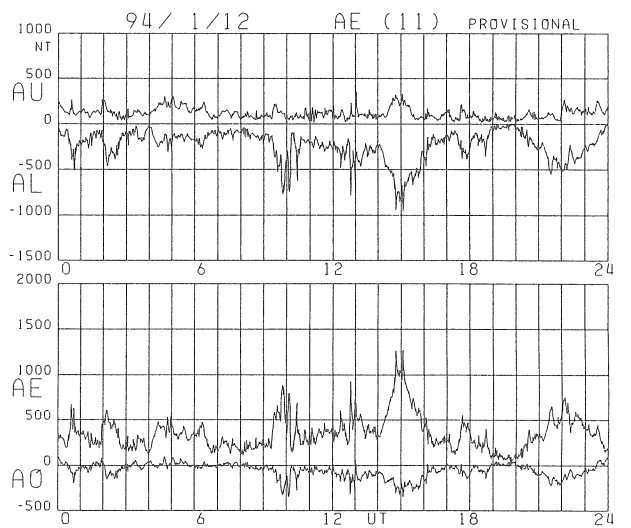
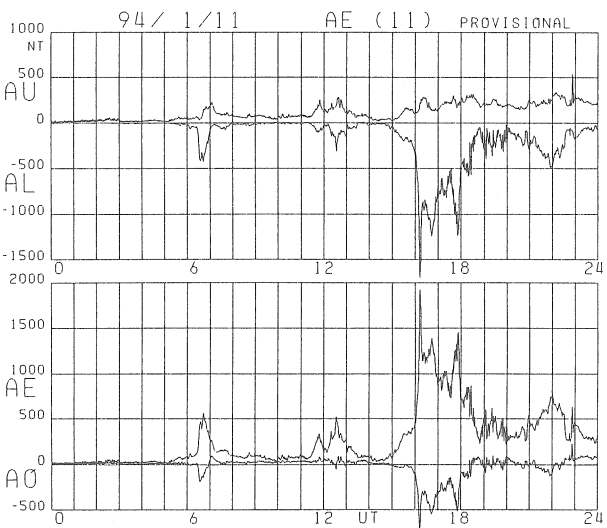
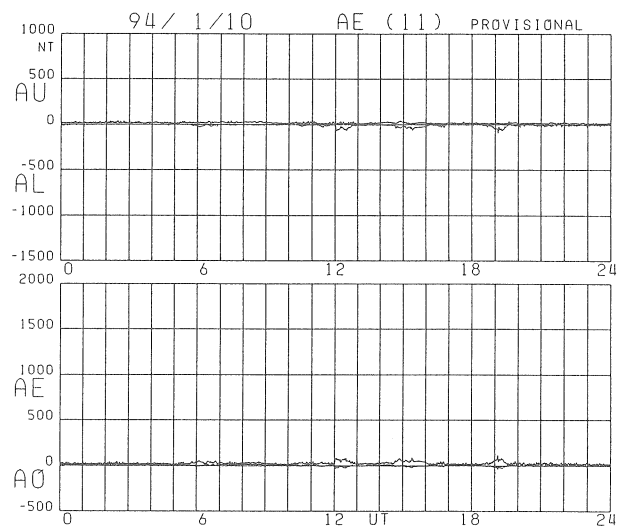
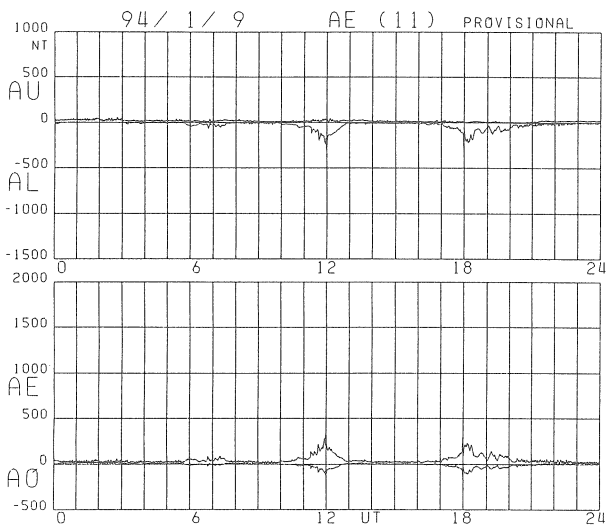
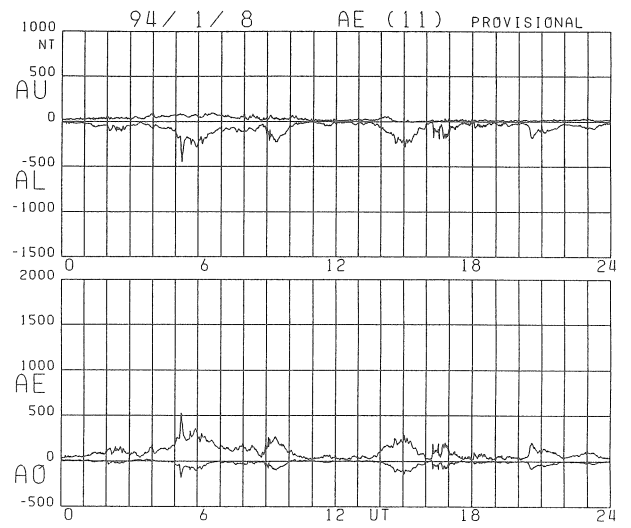
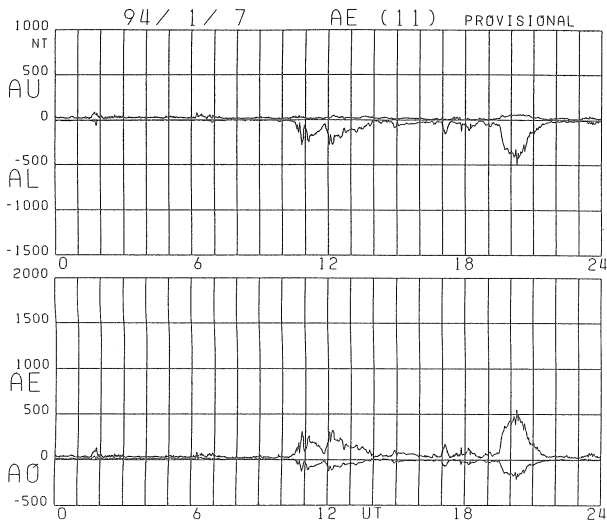
Daily graphs of provisional 1.0 min AE indices (AU, AL, AE and AO) for January-December 1994. Graphs on disturbed days (Feb 6, Feb 9, Feb 21, Apr 17, Oct 23, Oct 29, Nov 6 and Nov 26) are reproduced on page 190.

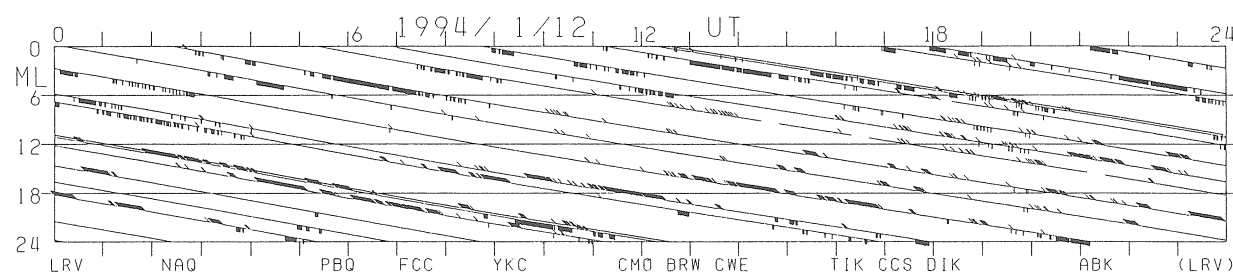
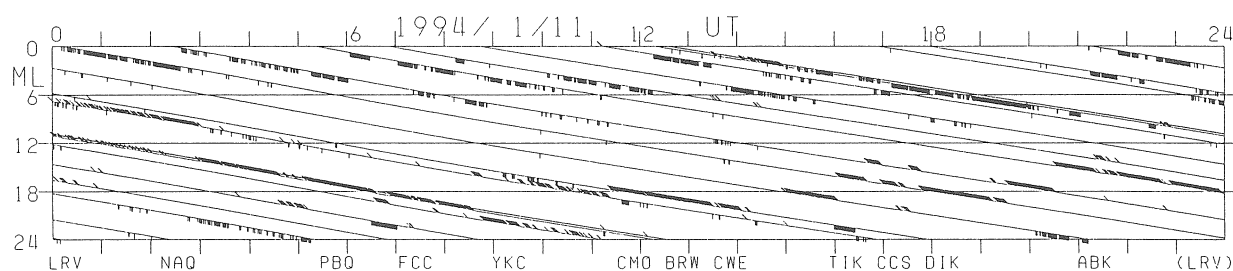
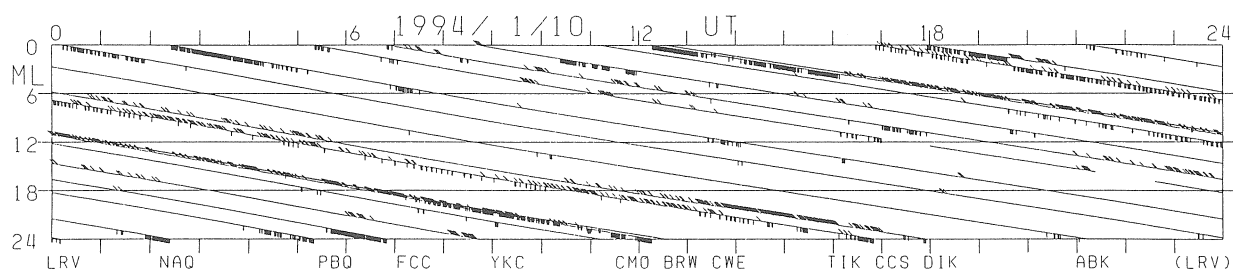
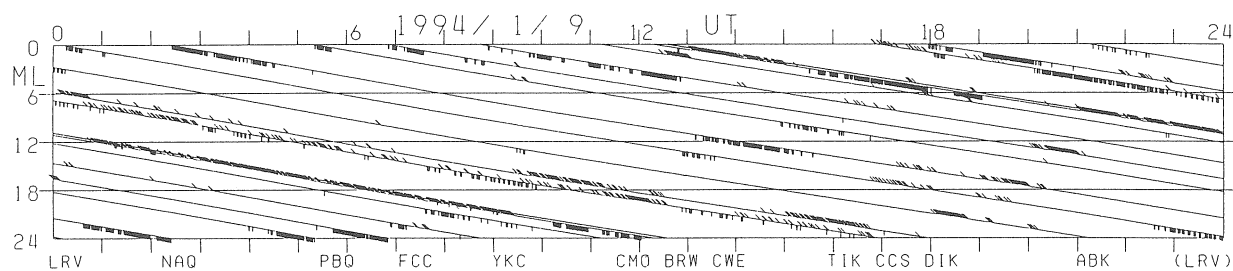
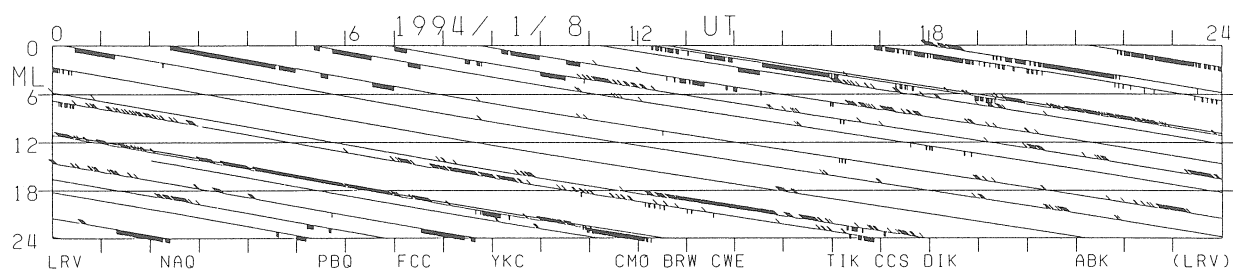
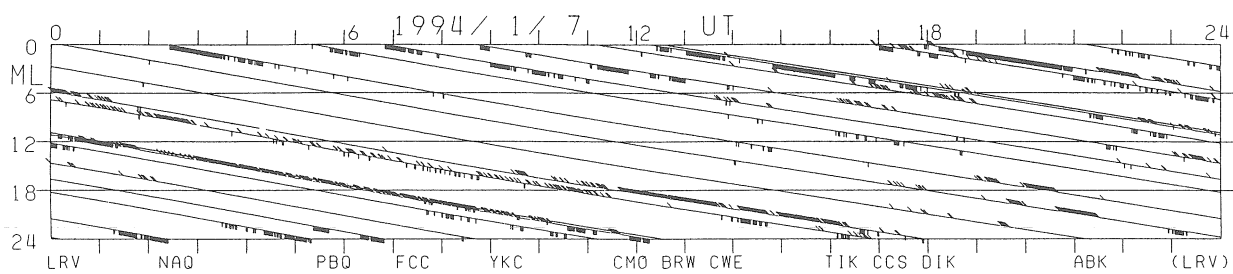
FIGURE 3 (on odd pages)

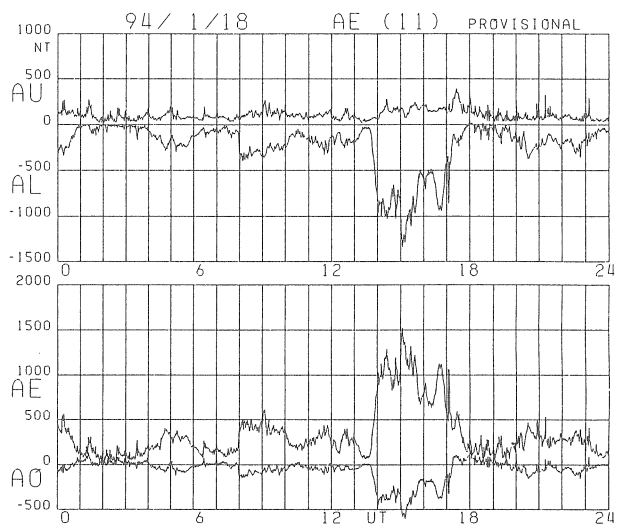
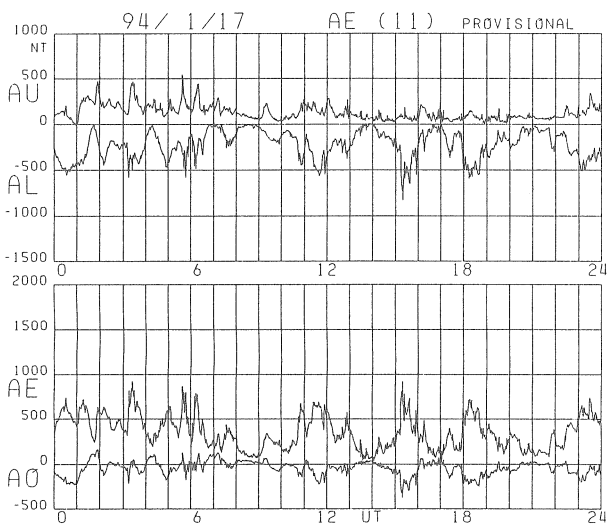
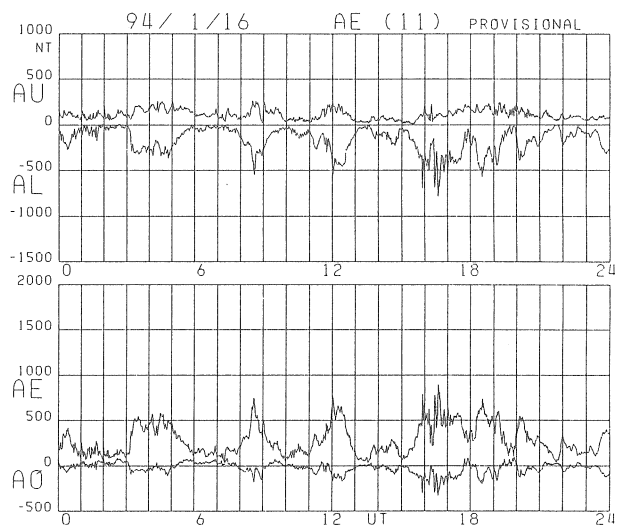
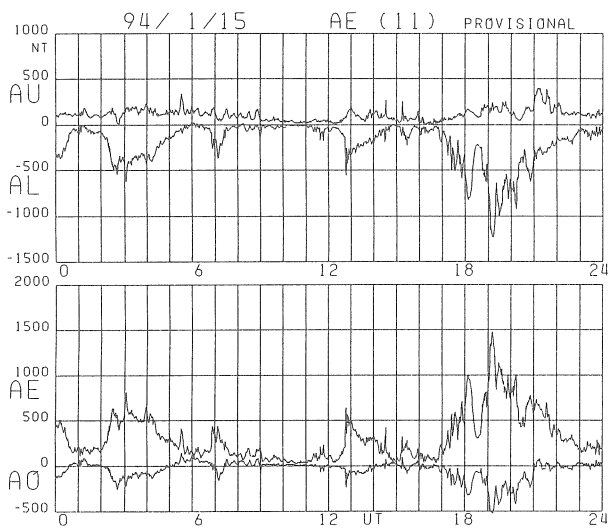
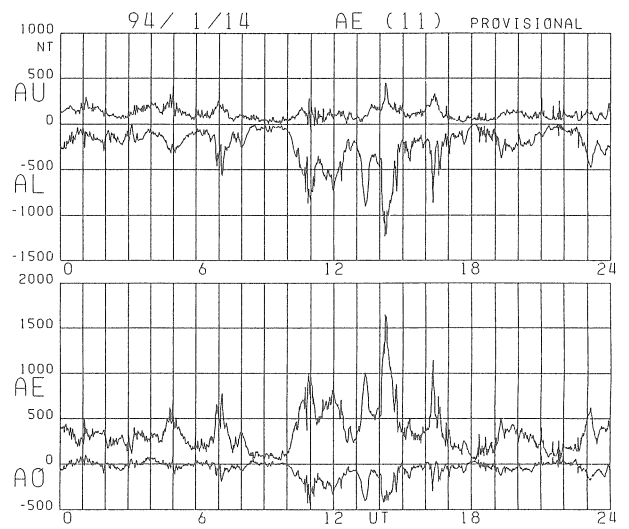
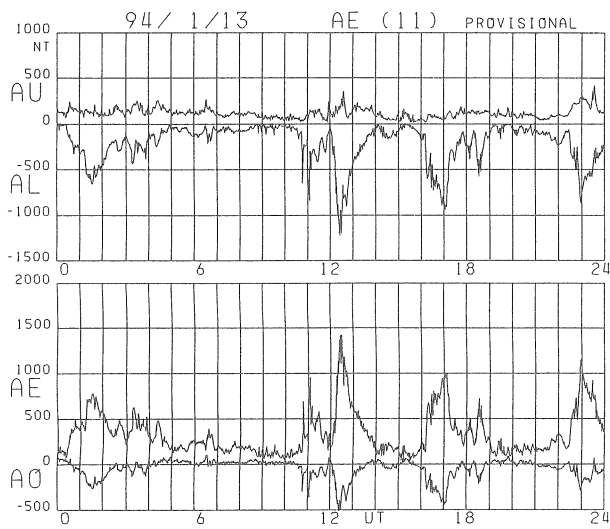
Plots of the contributing station to the AU (upper plumes) and AL (lower plumes) indices, showing which station contributes to these indices at each UT minute.

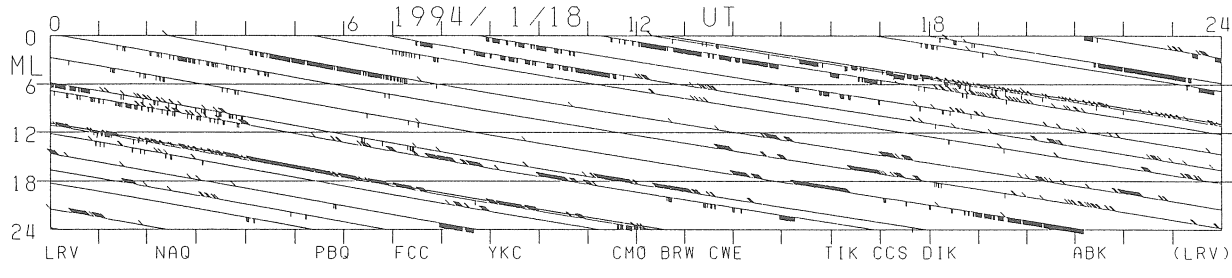
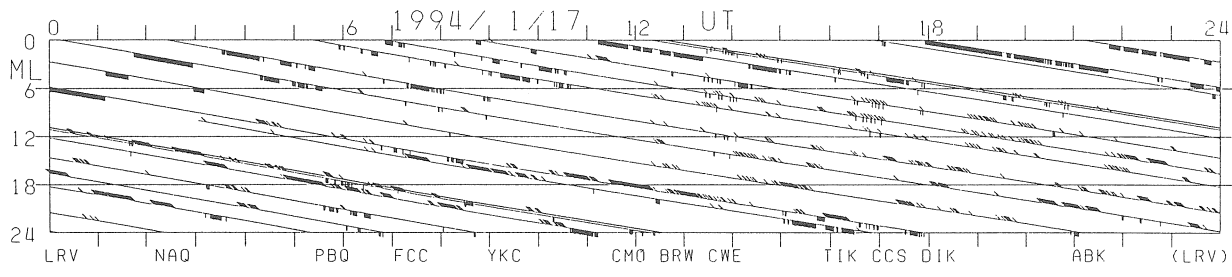
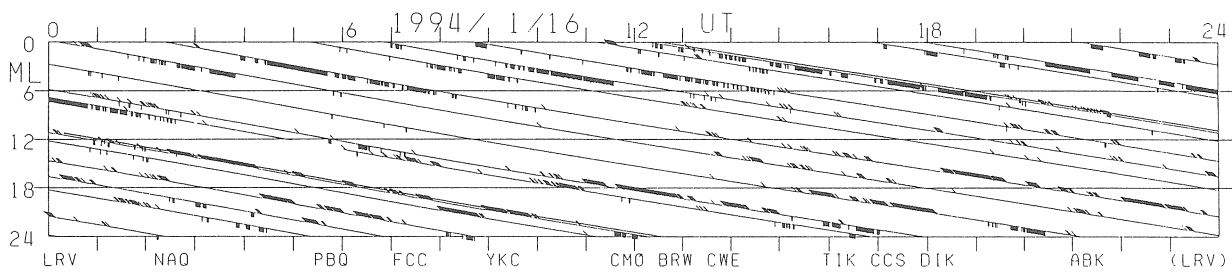
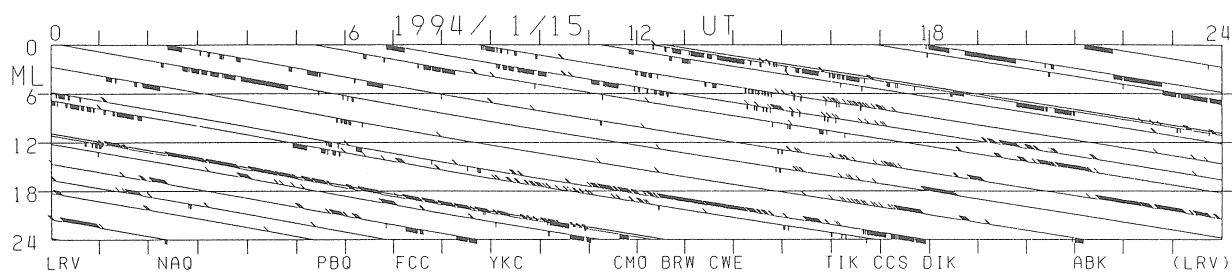
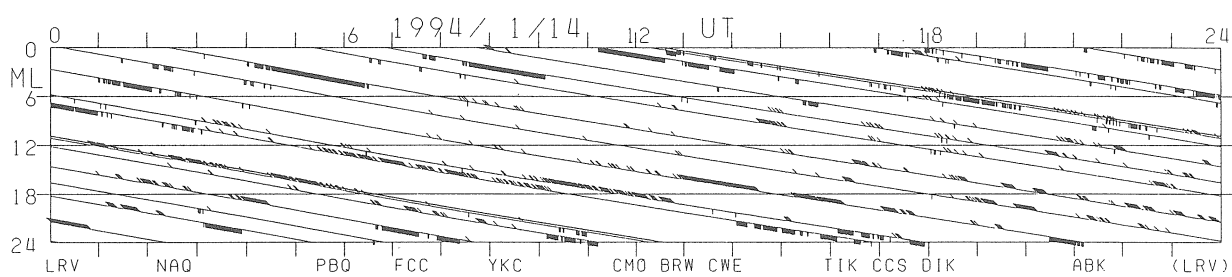
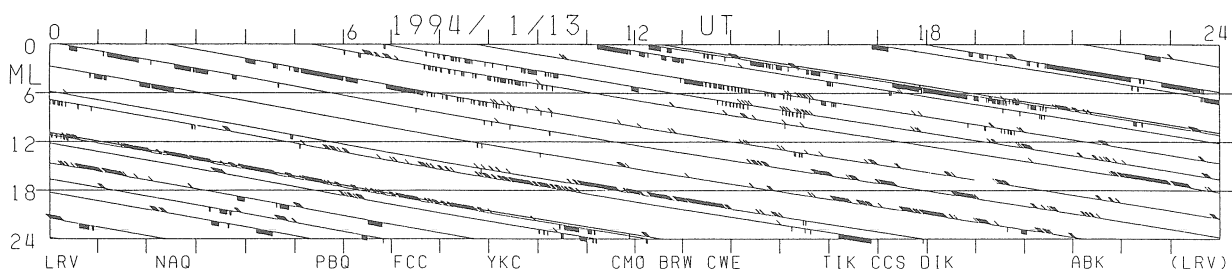


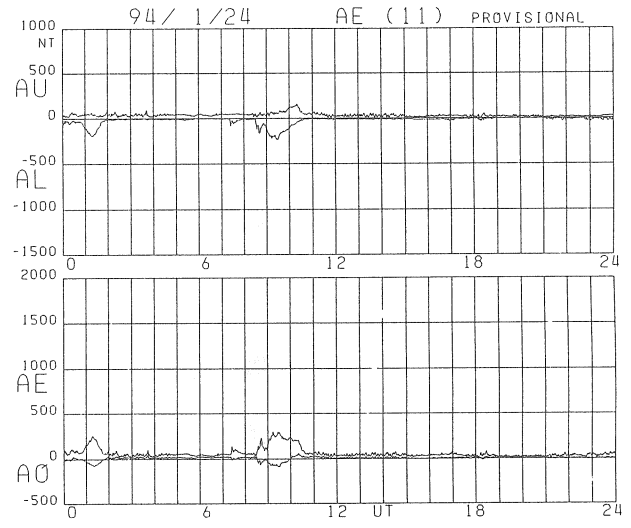
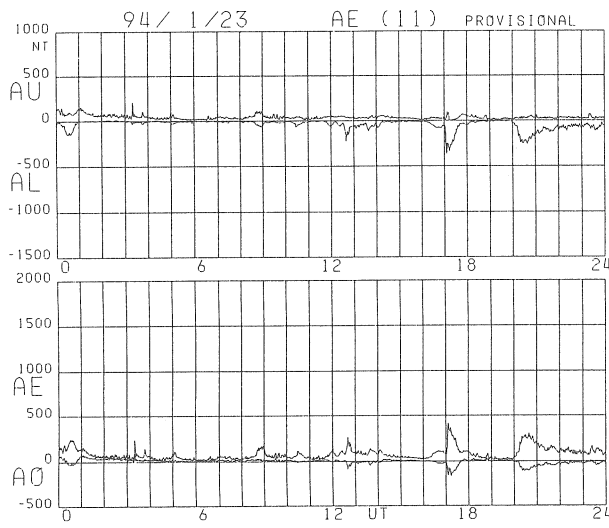
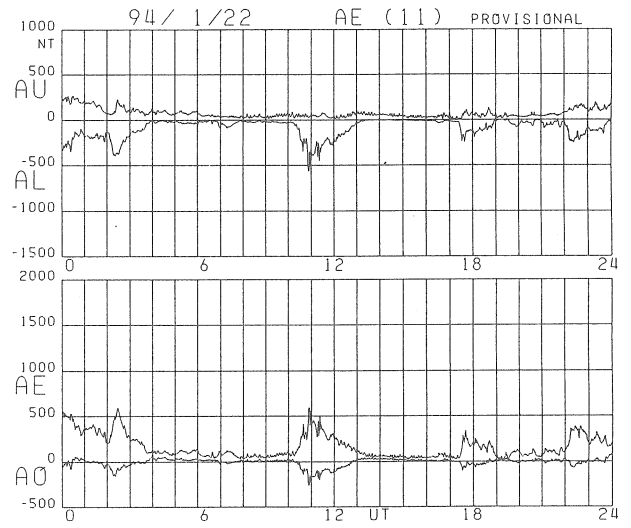
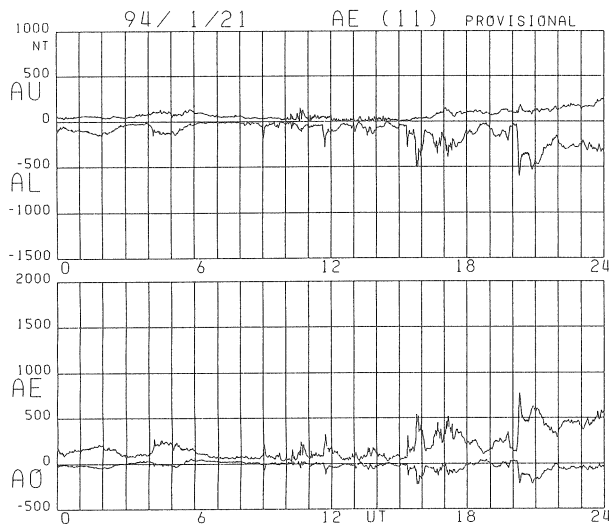
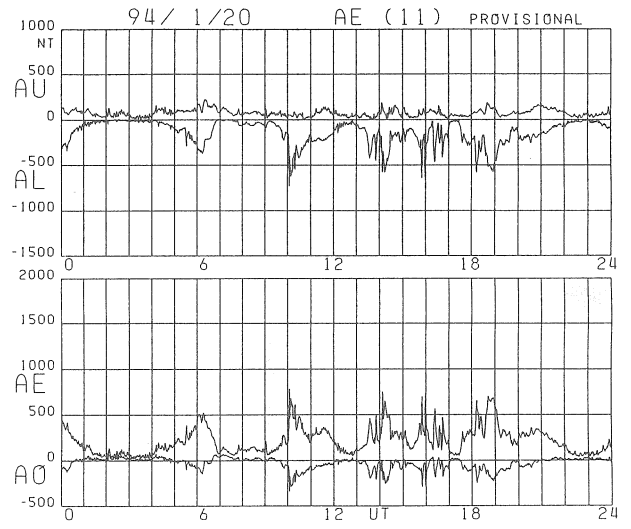
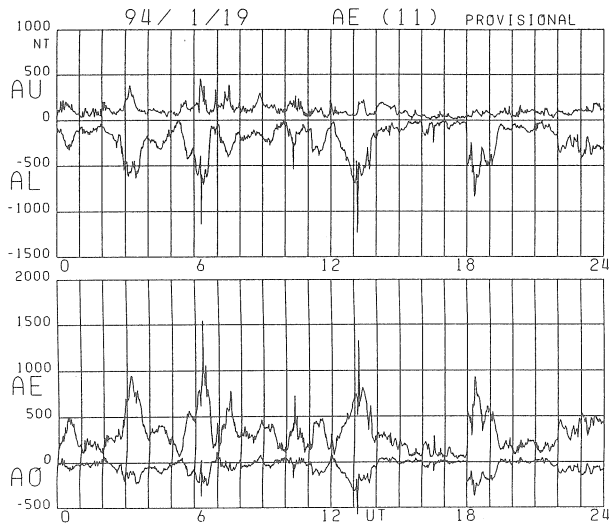


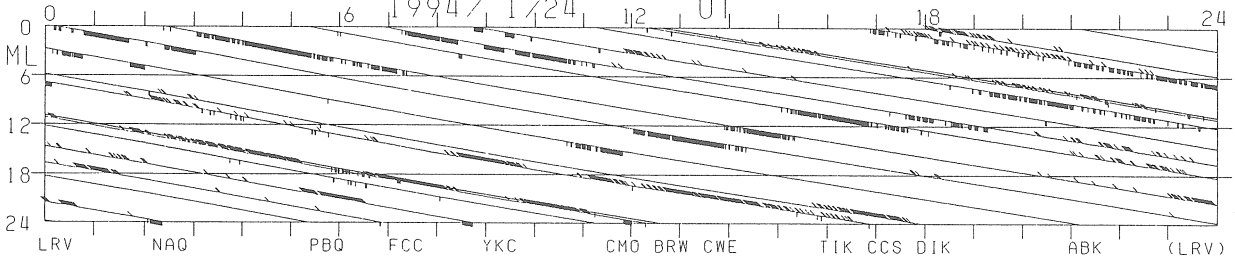
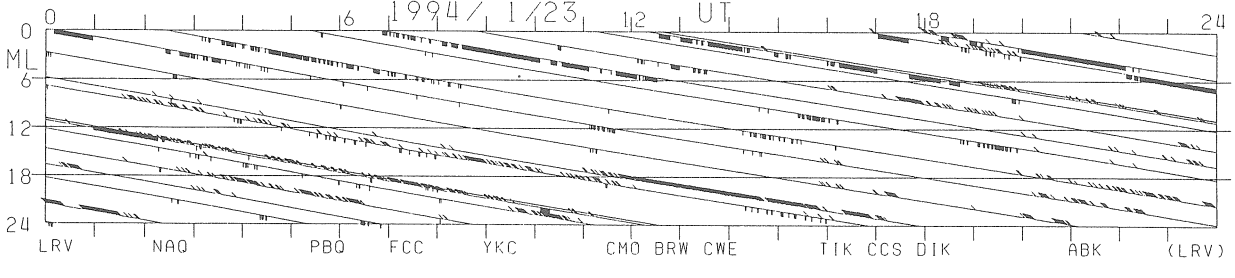
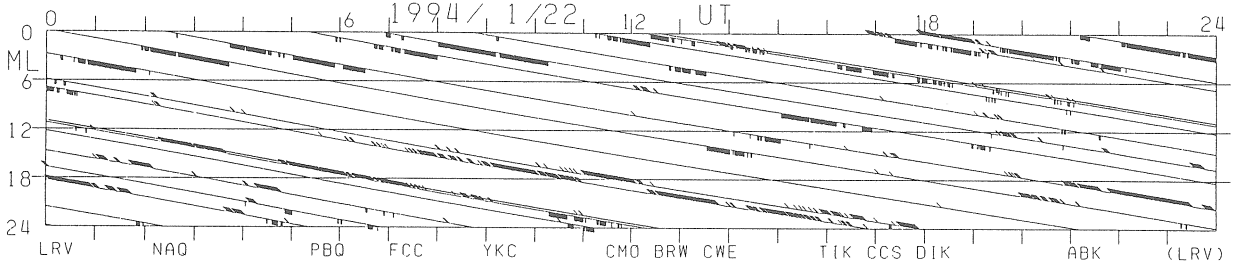
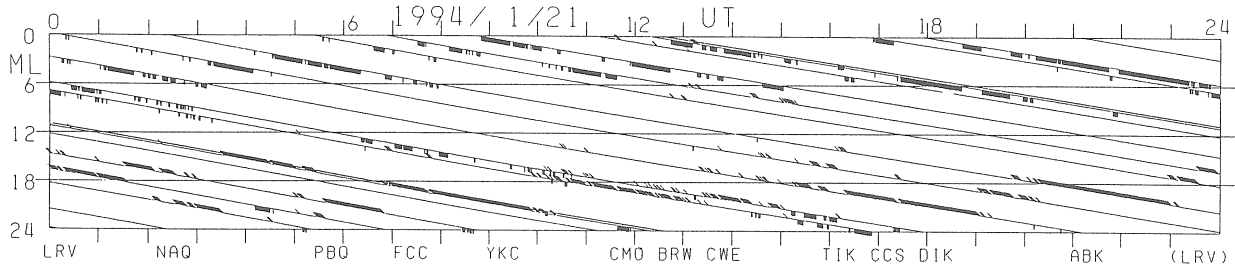
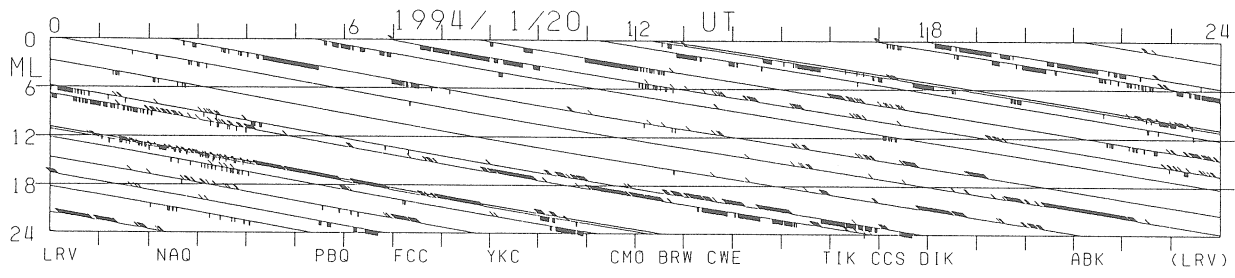
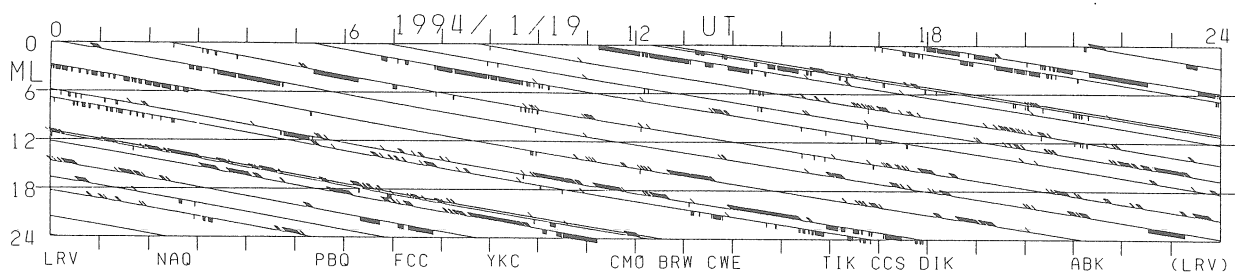


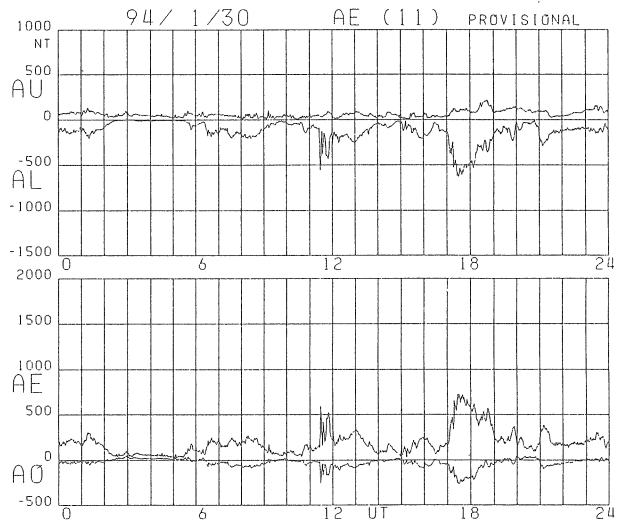
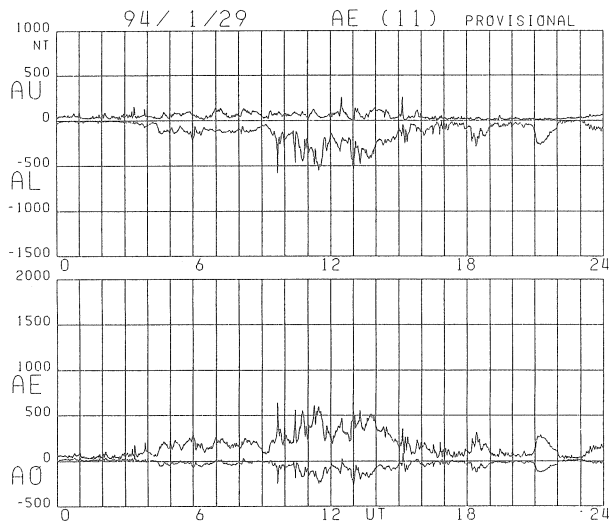
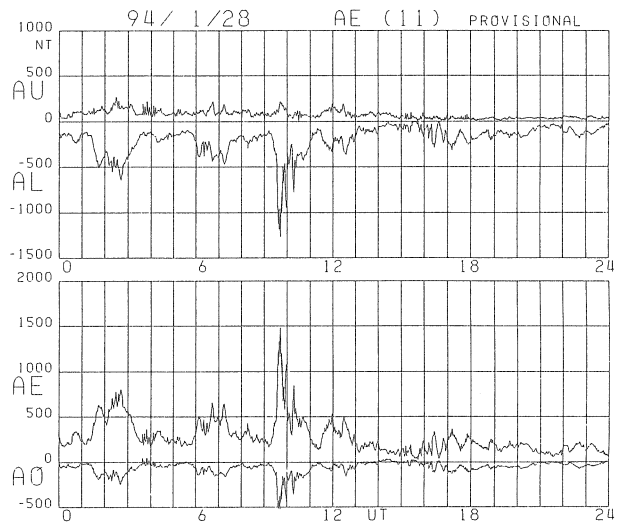
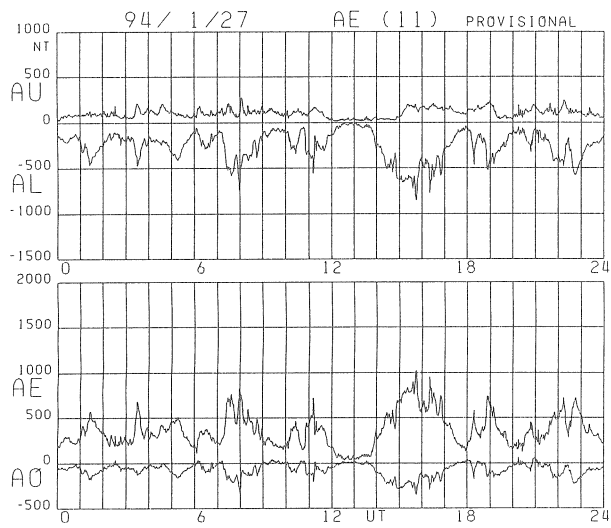
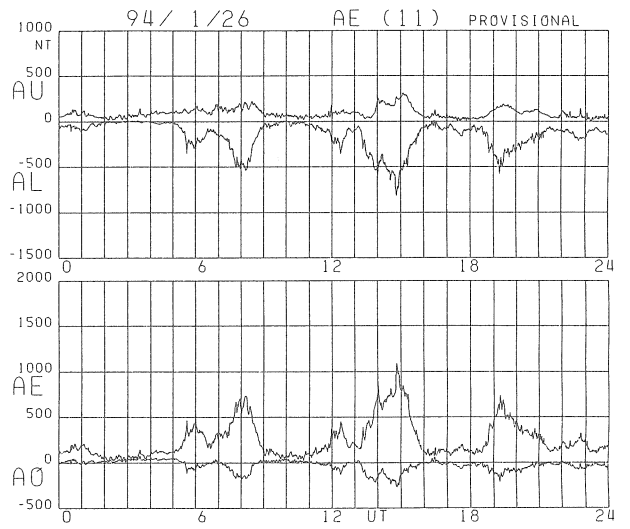
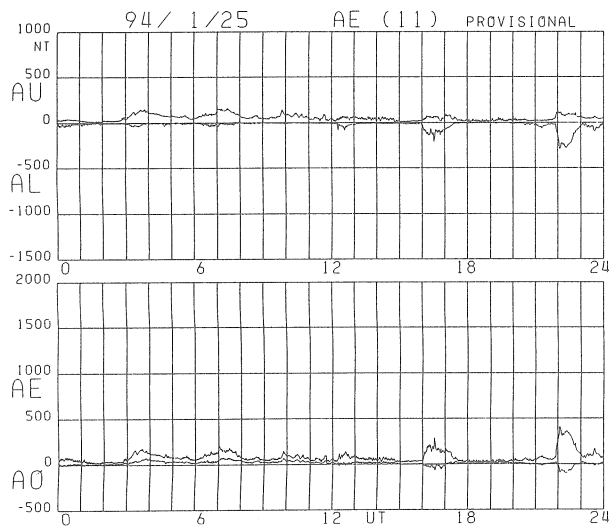


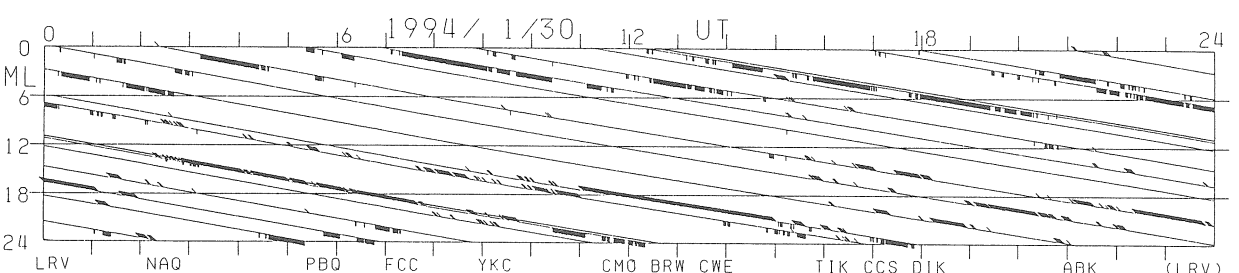
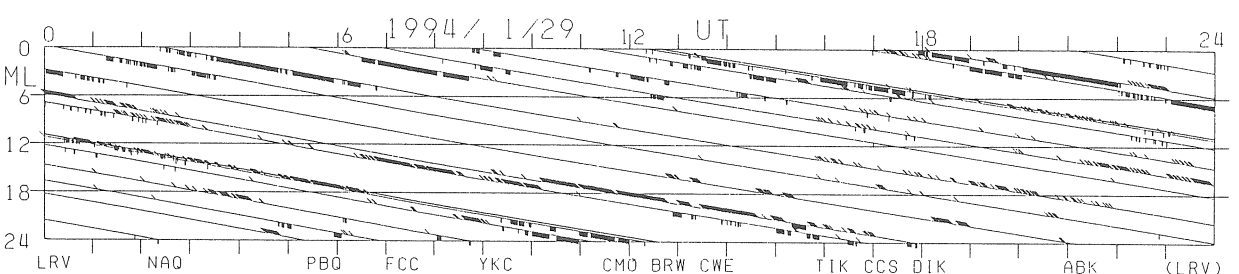
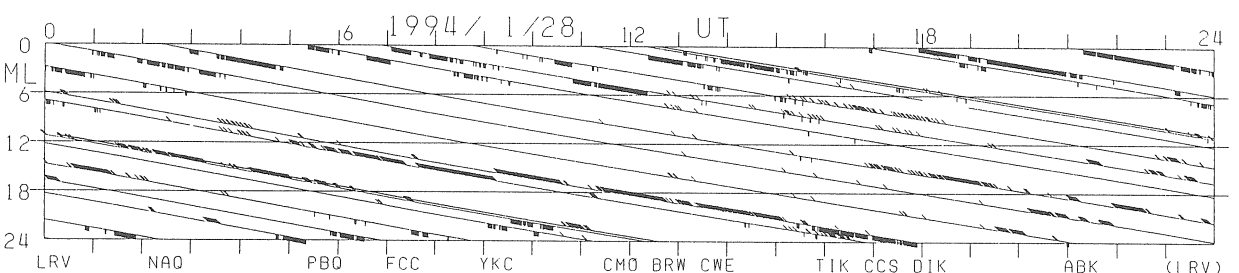
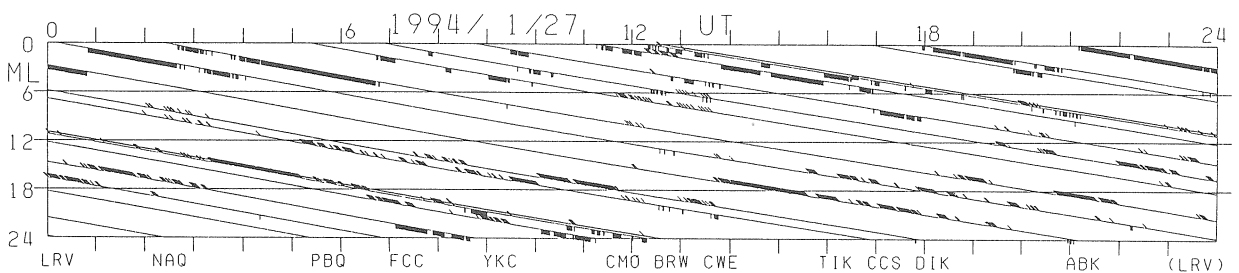
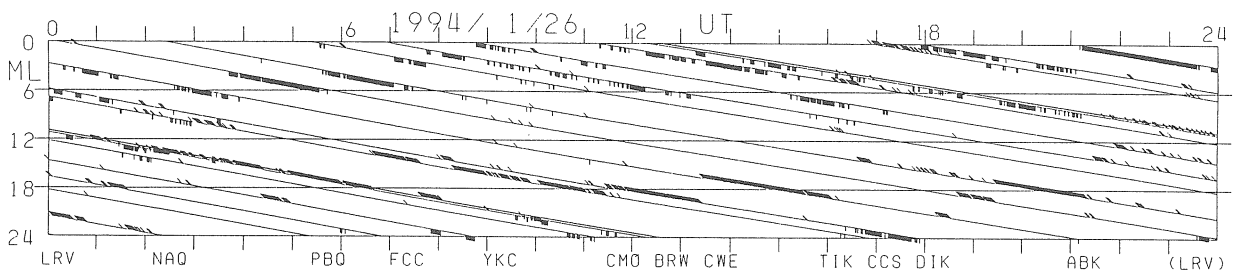
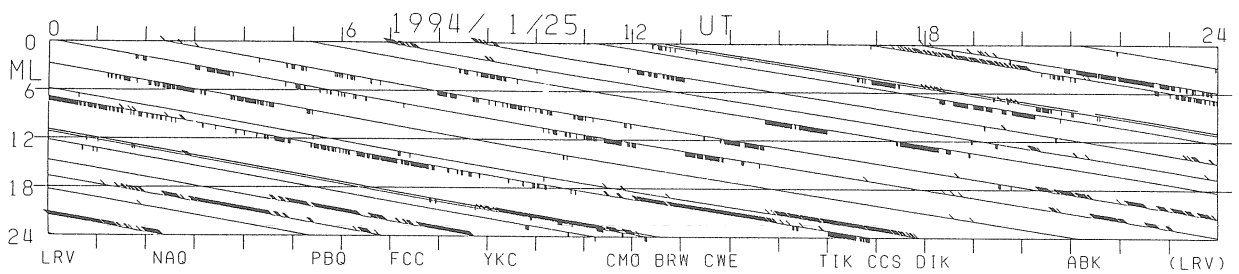


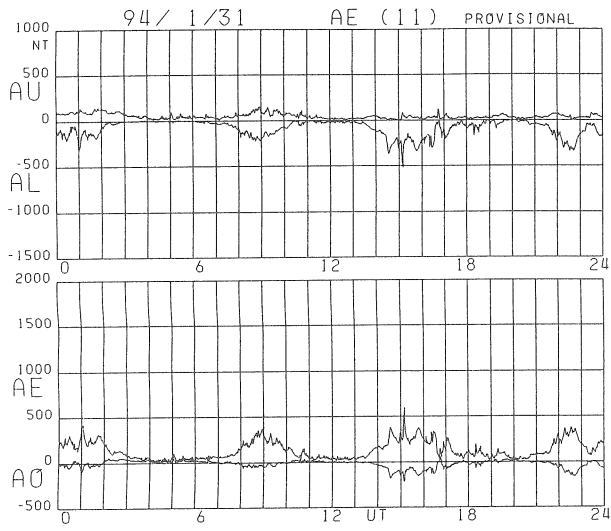


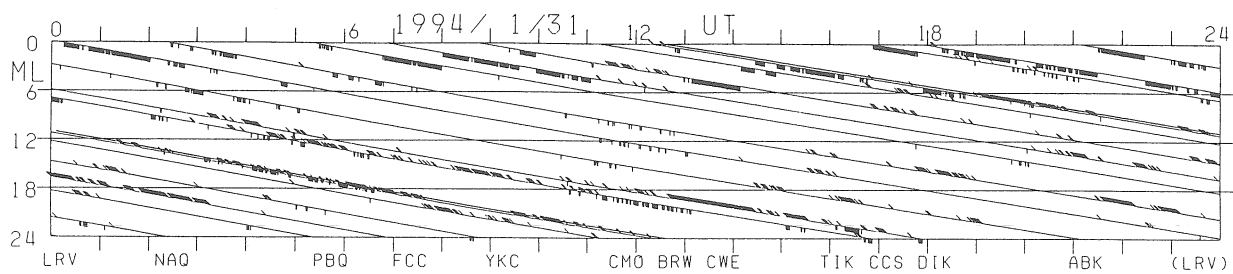


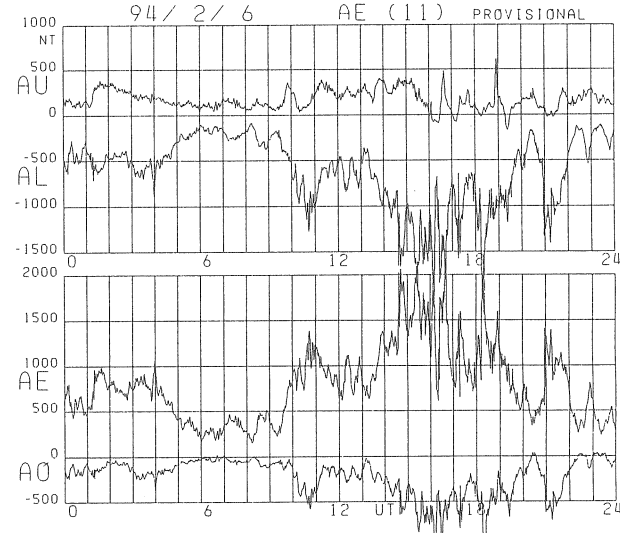
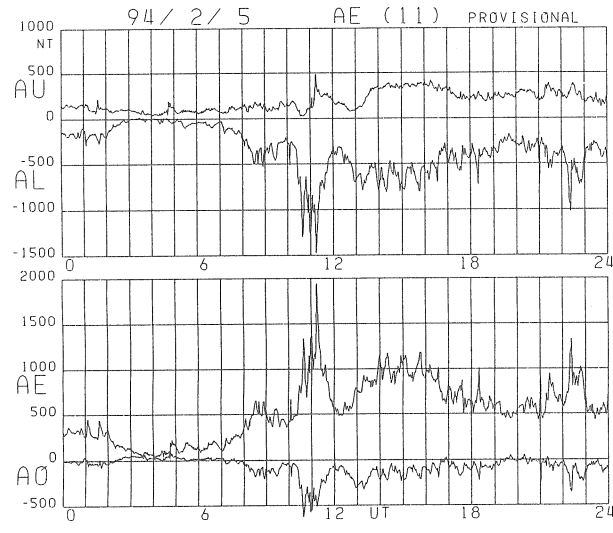
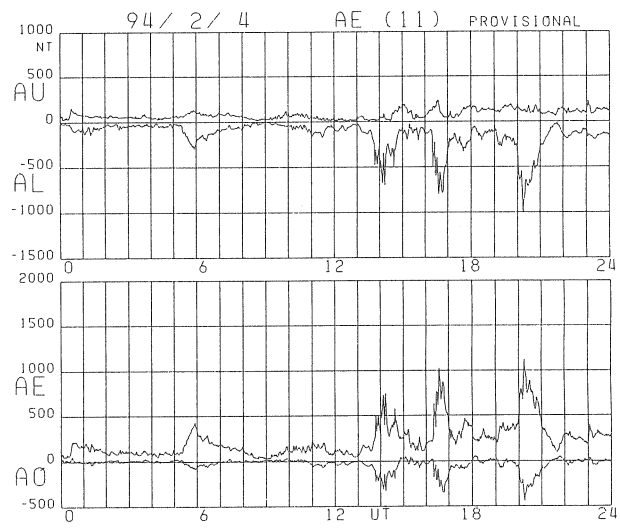
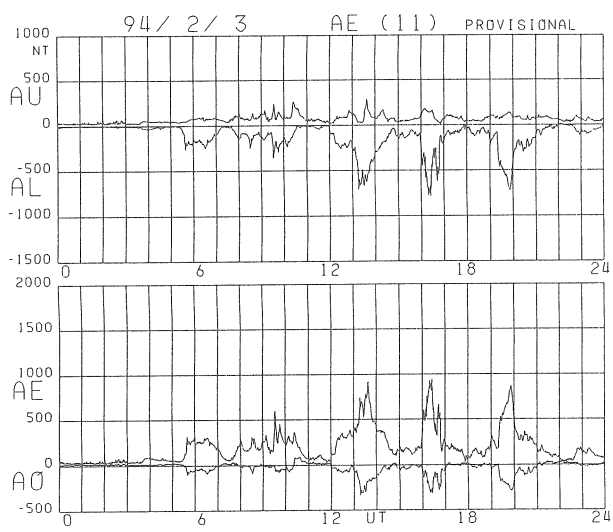
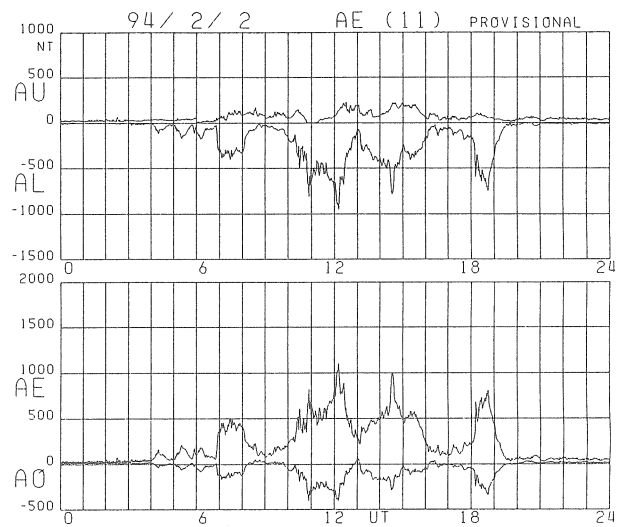
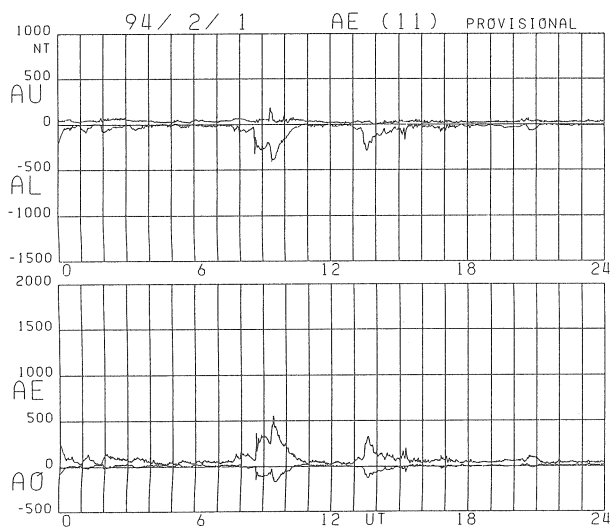


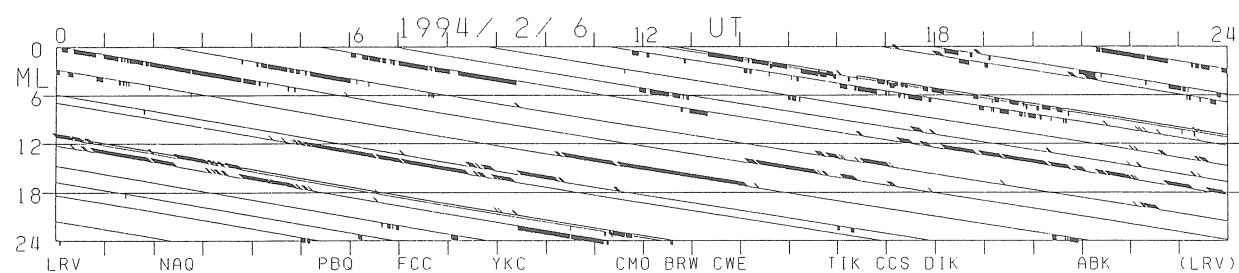
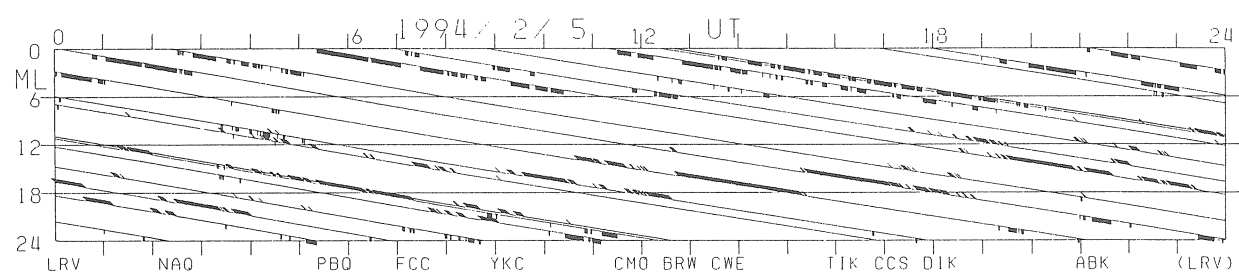
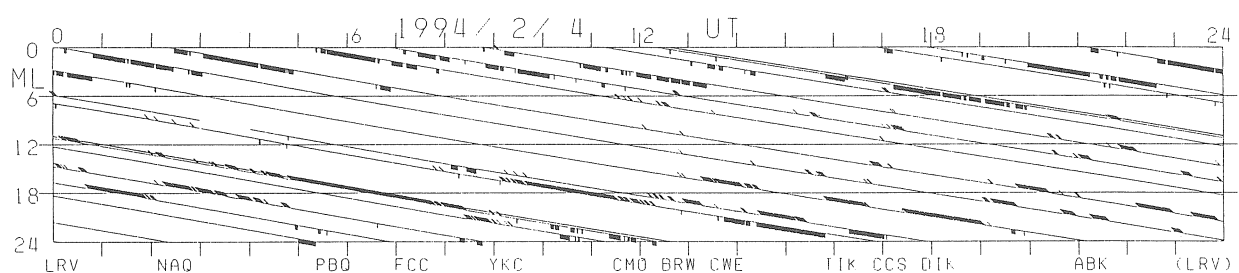
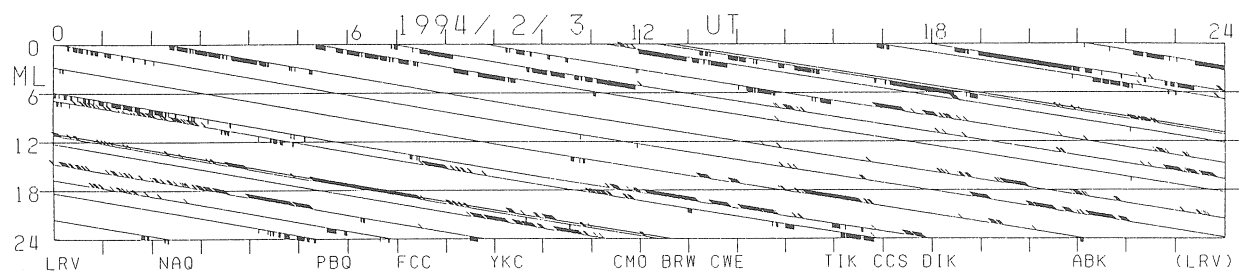
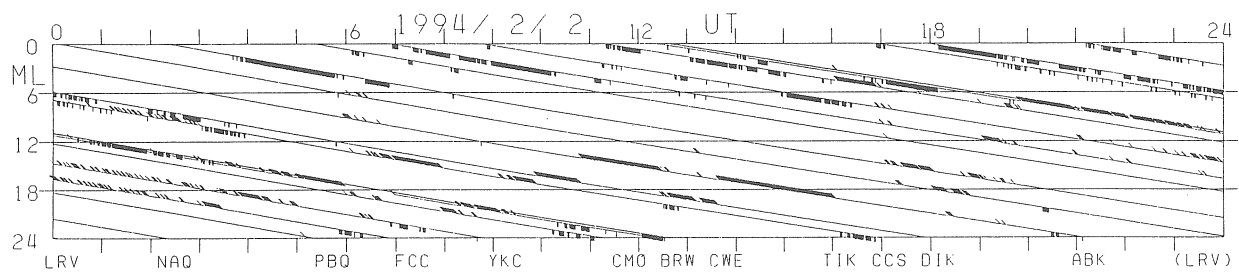
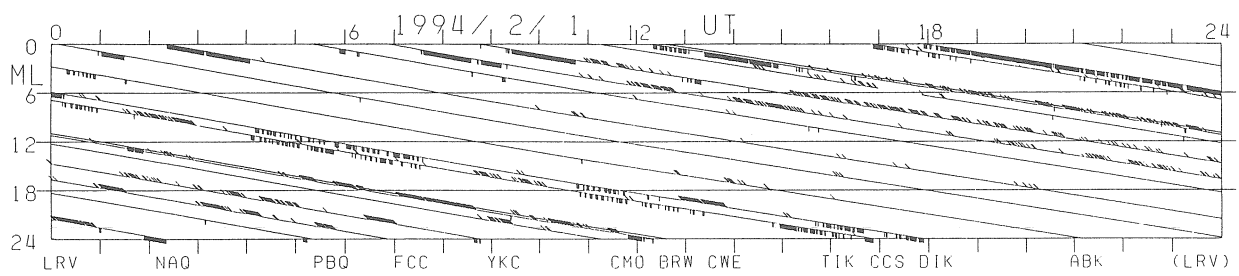


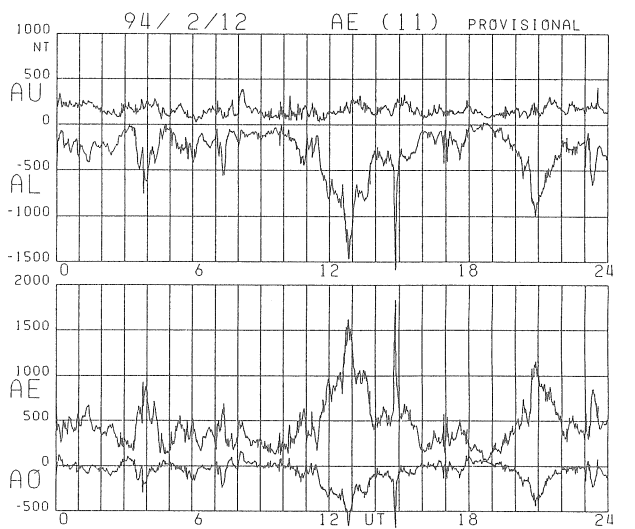
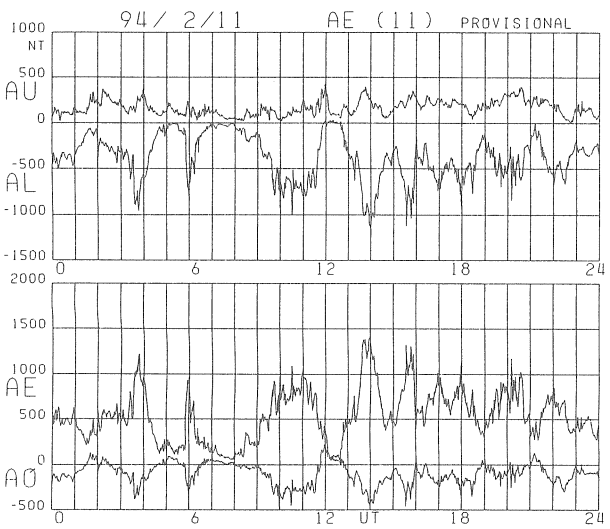
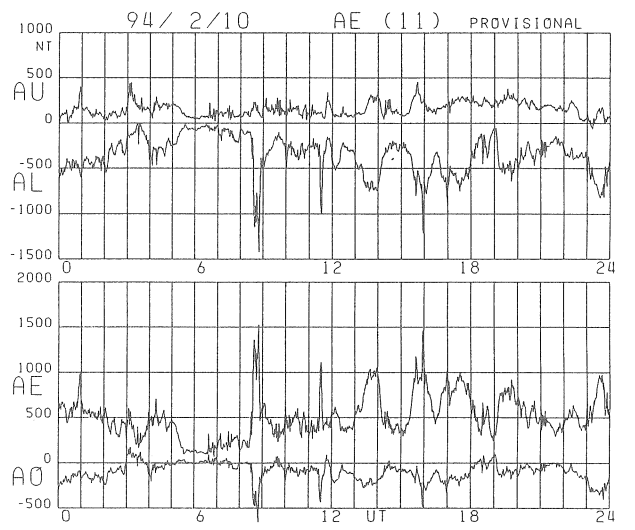
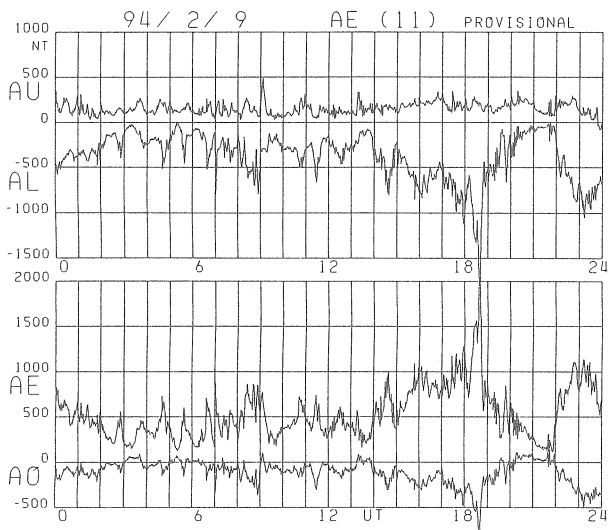
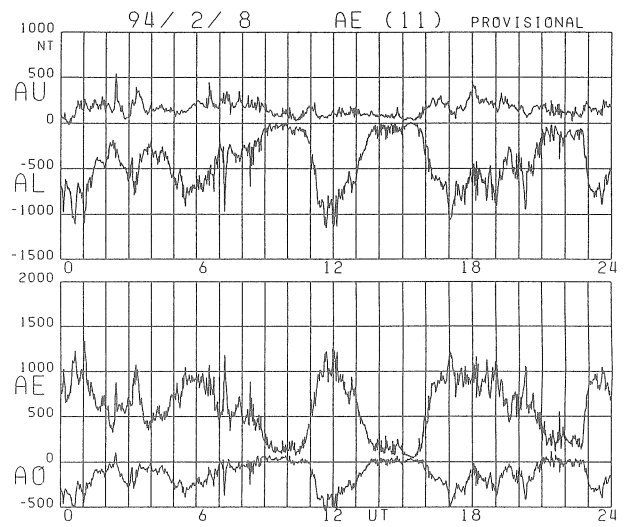
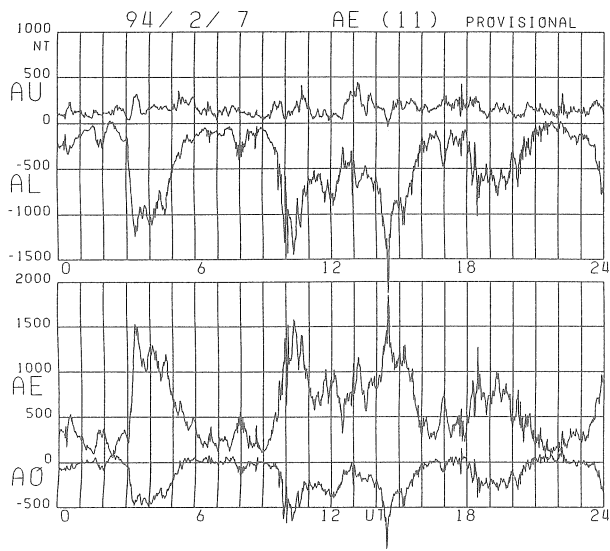


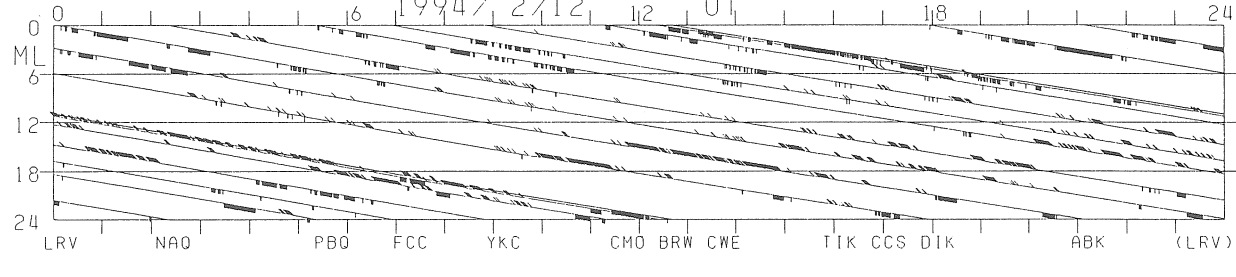
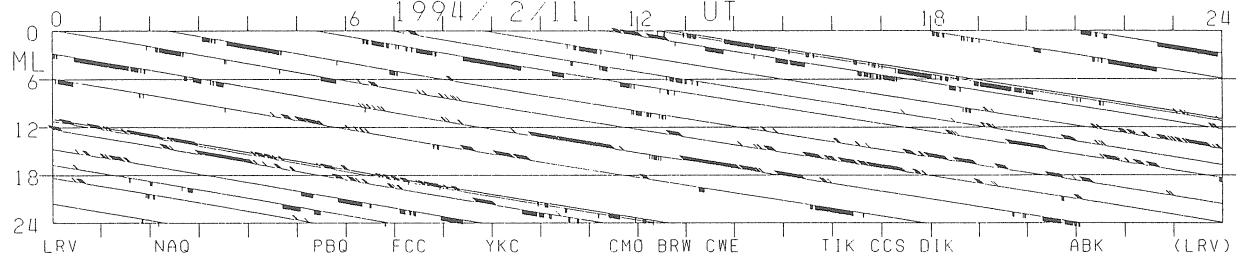
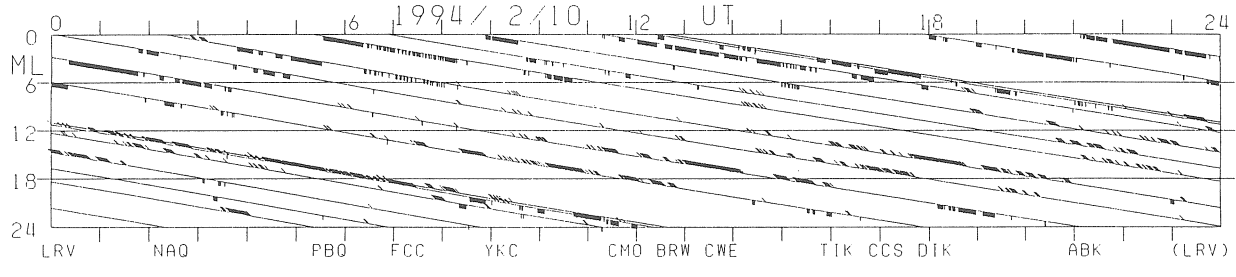
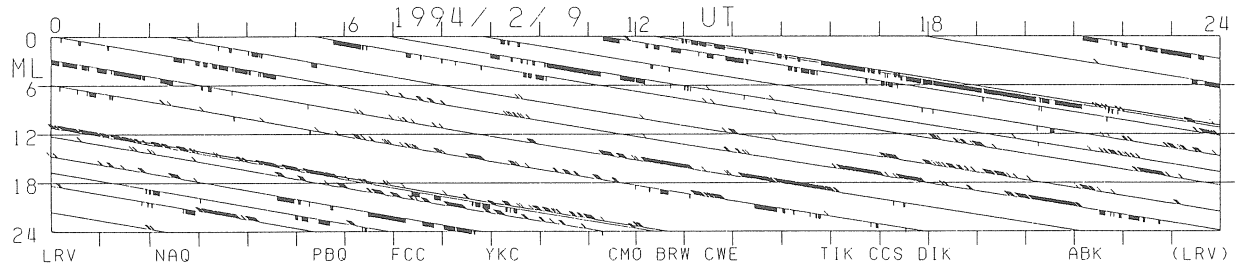
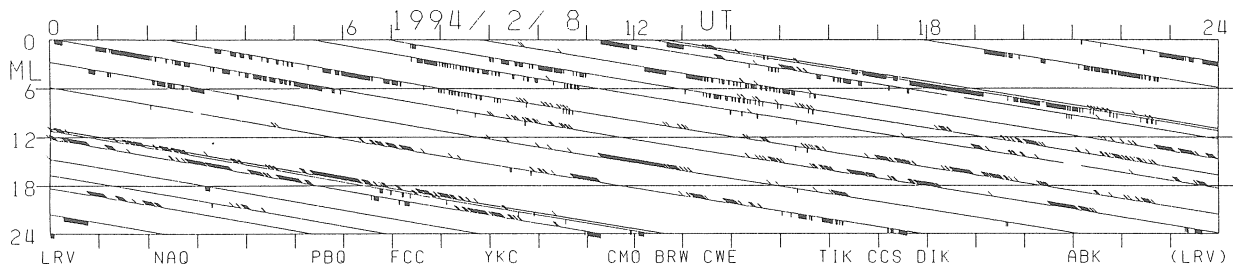
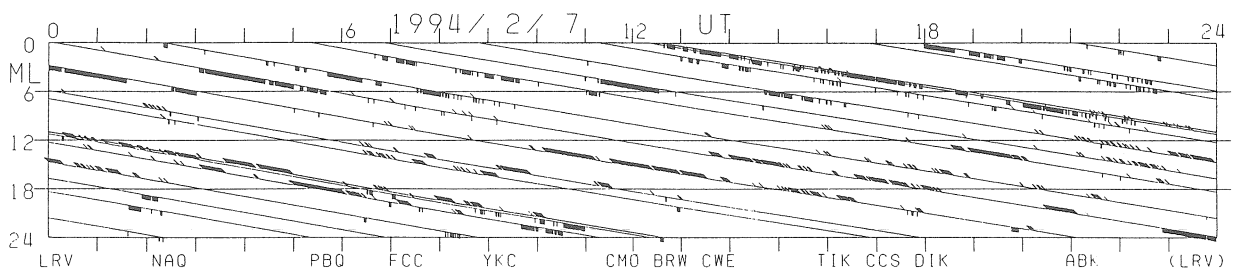


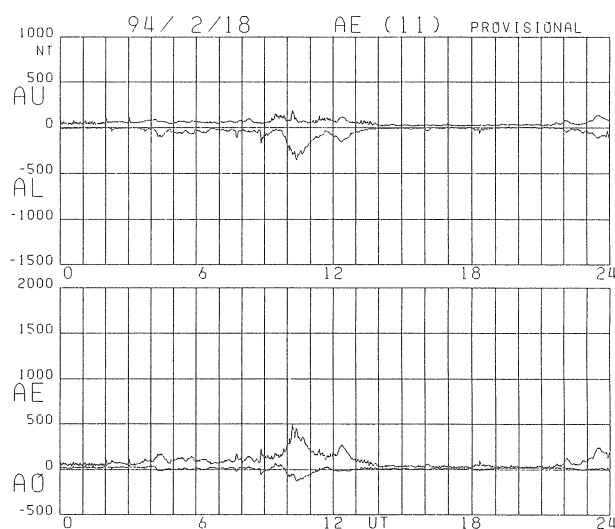
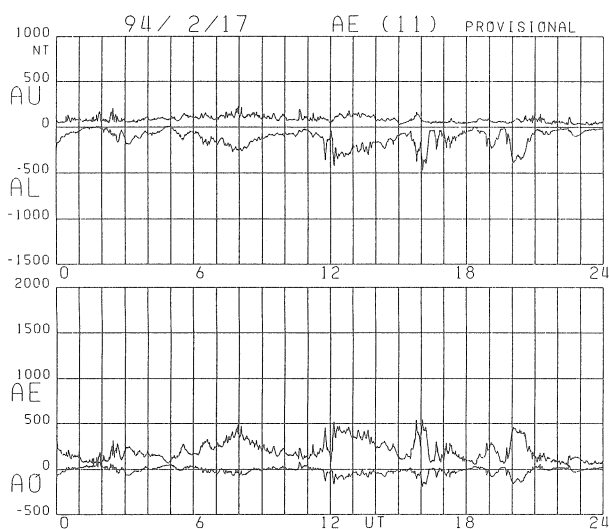
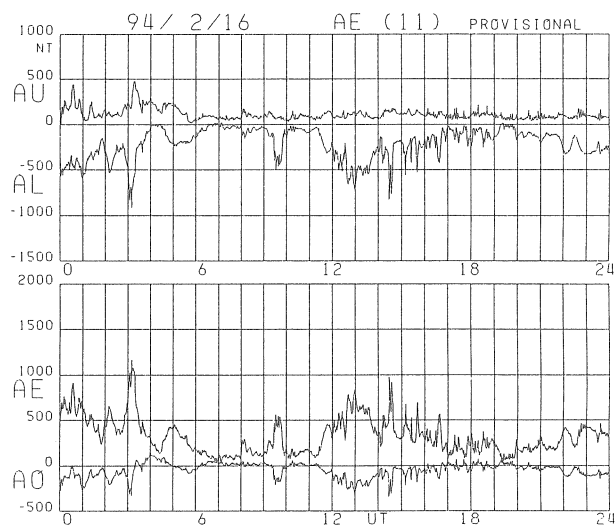
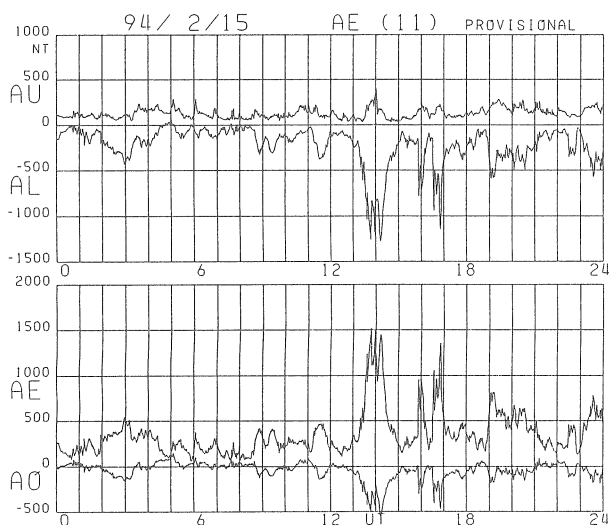
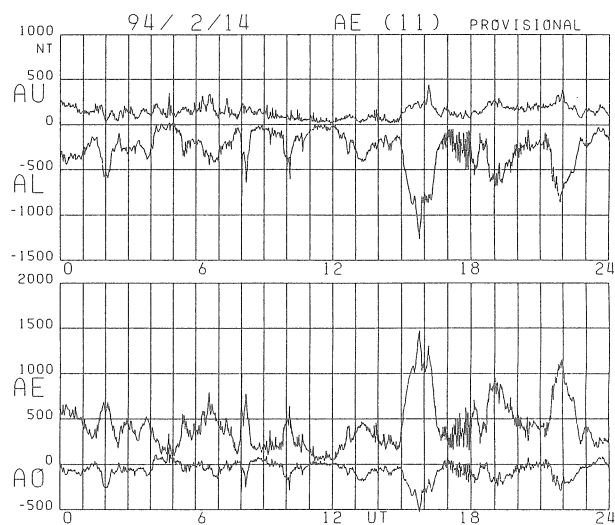
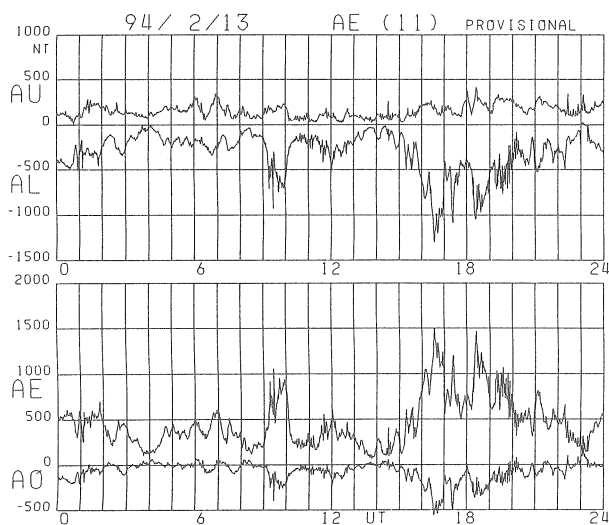


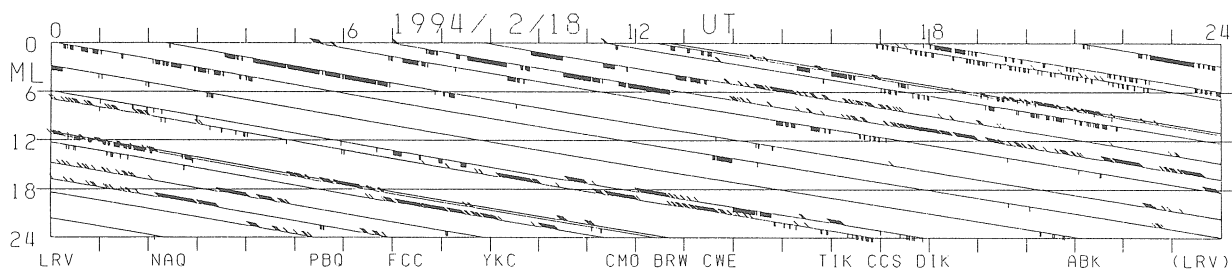
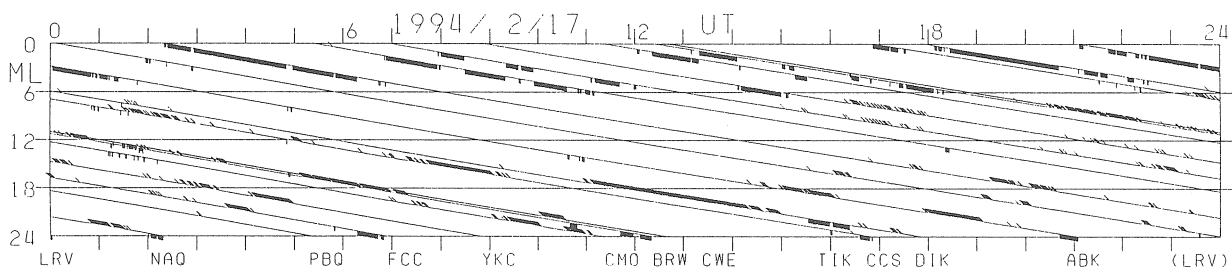
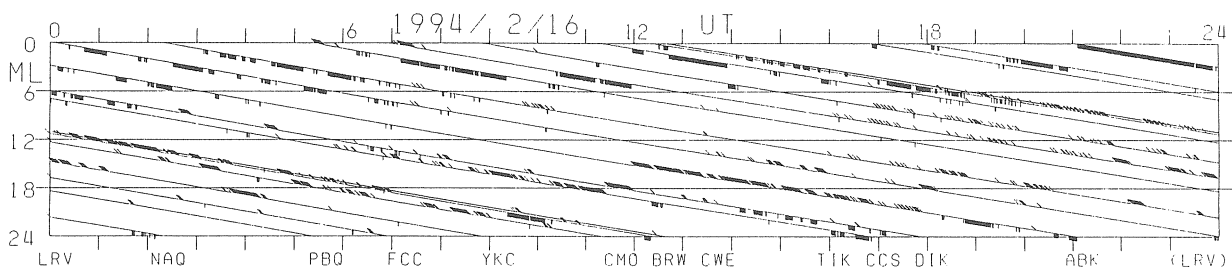
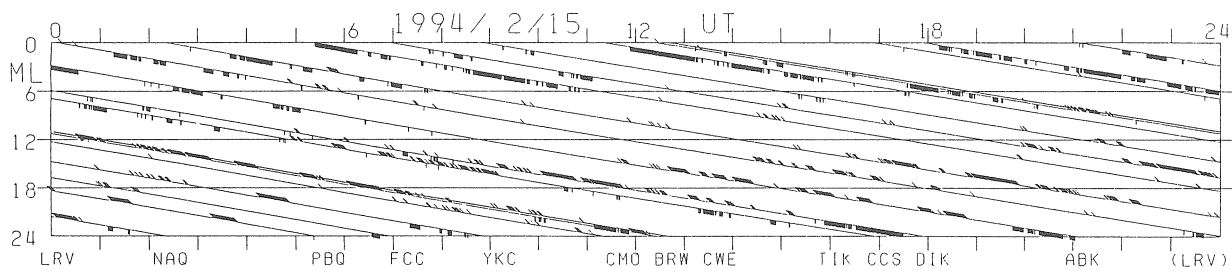
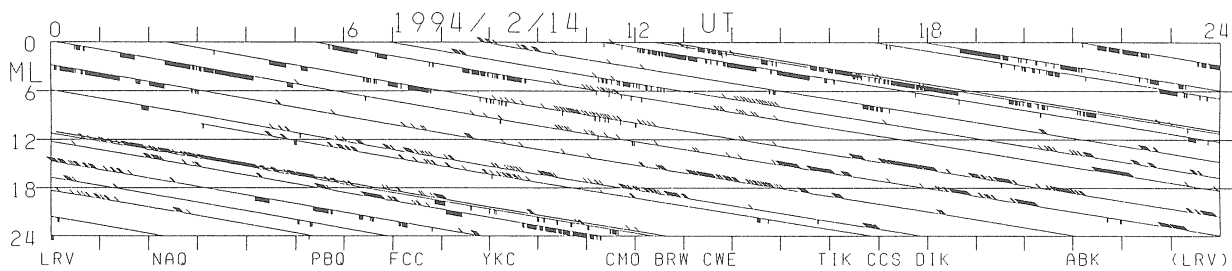
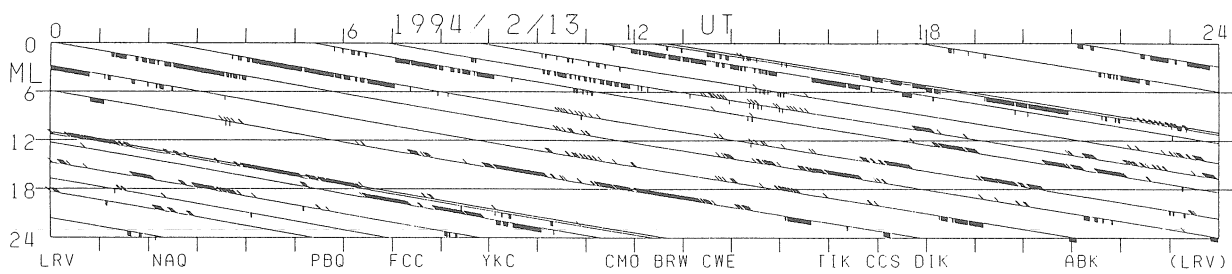


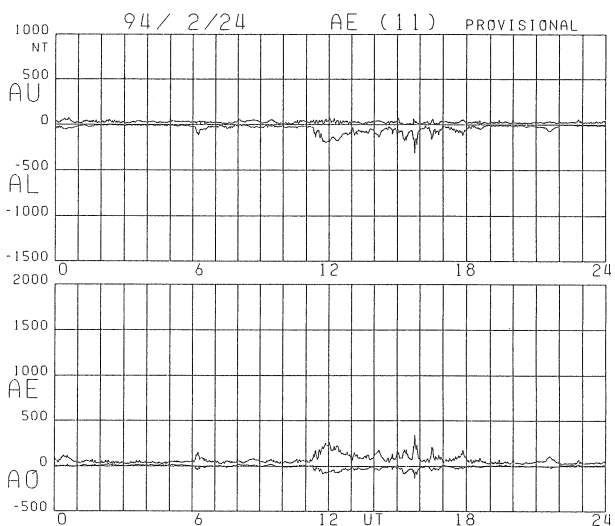
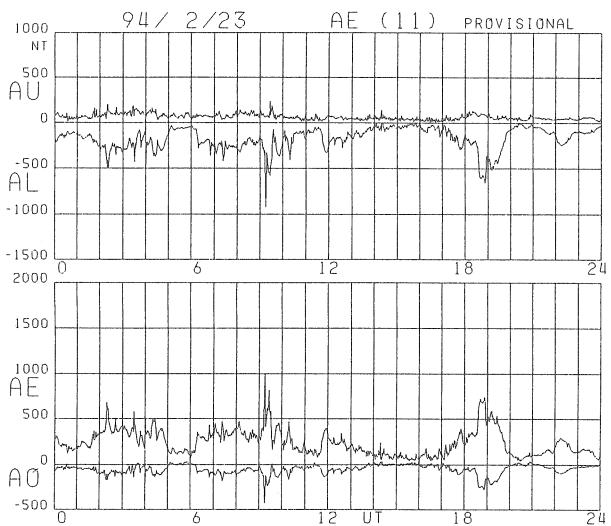
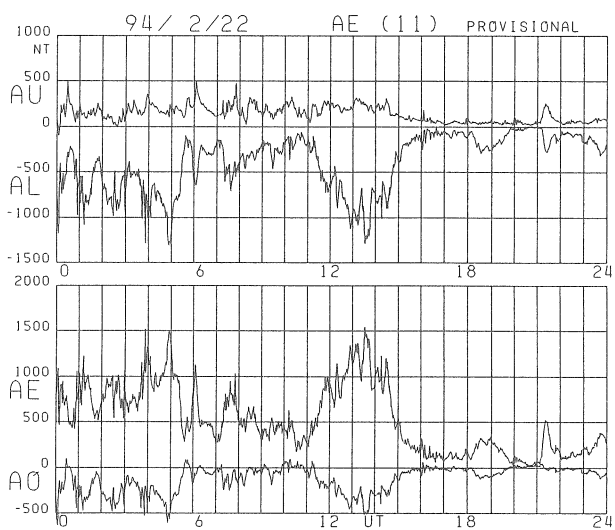
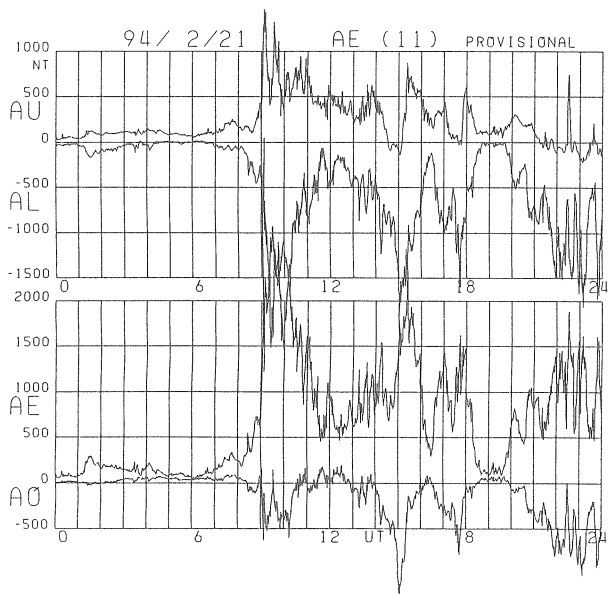
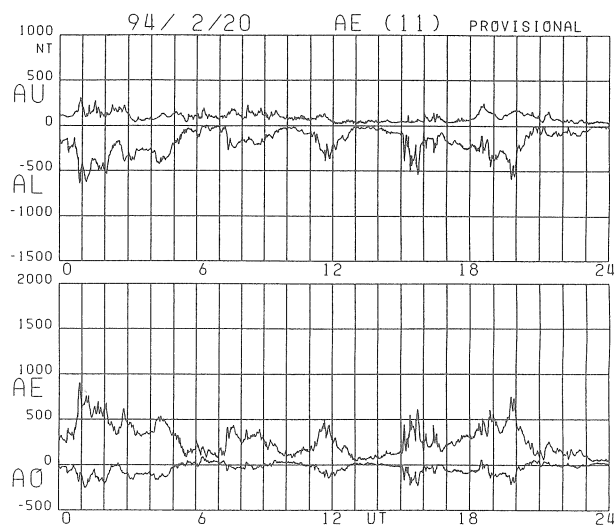
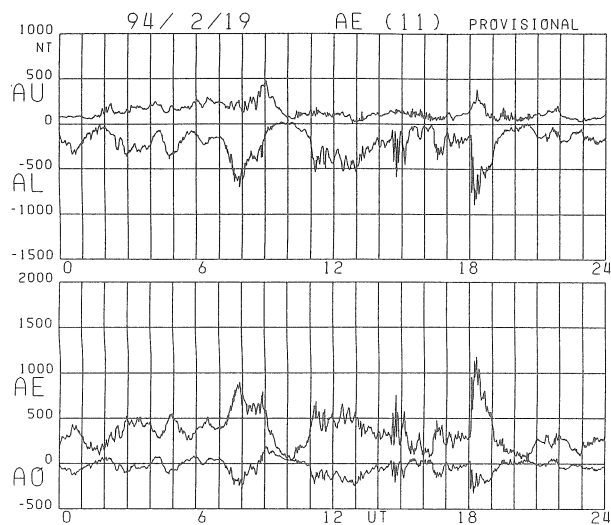


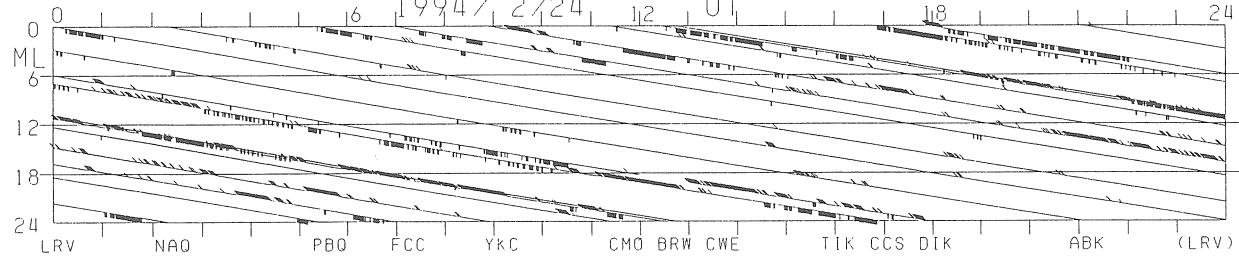
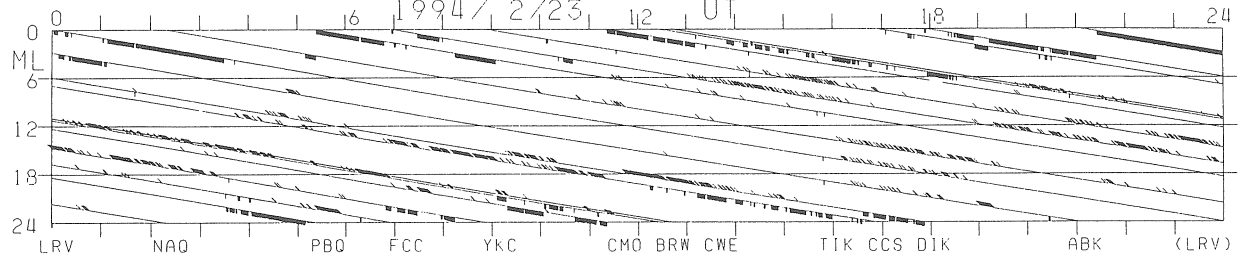
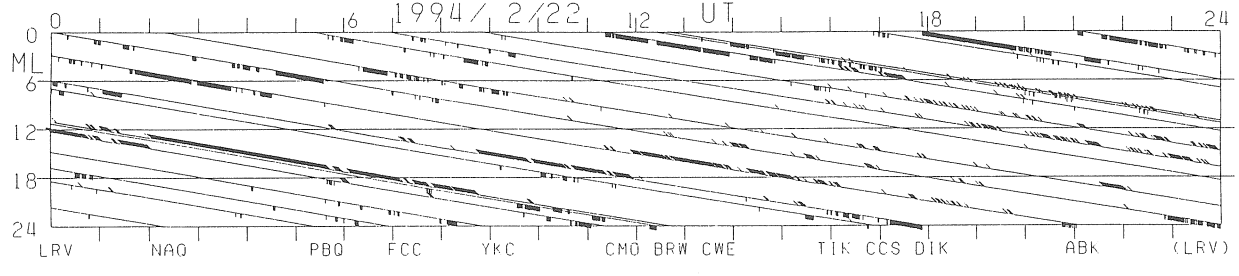
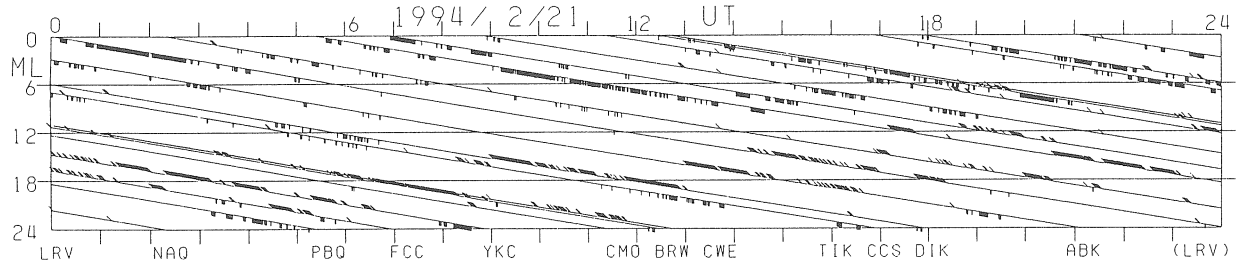
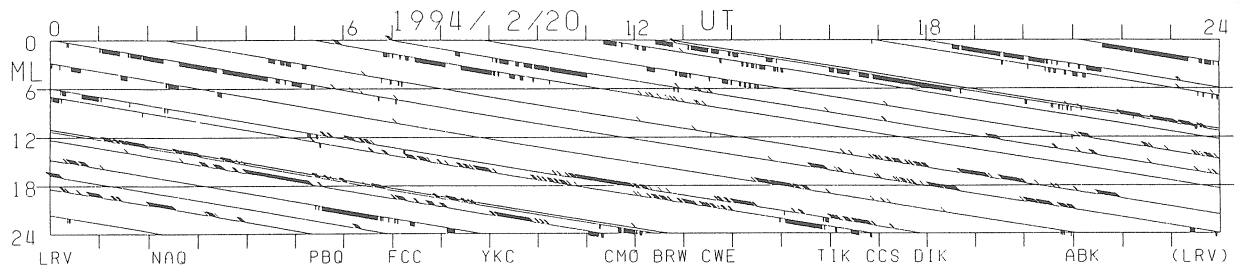
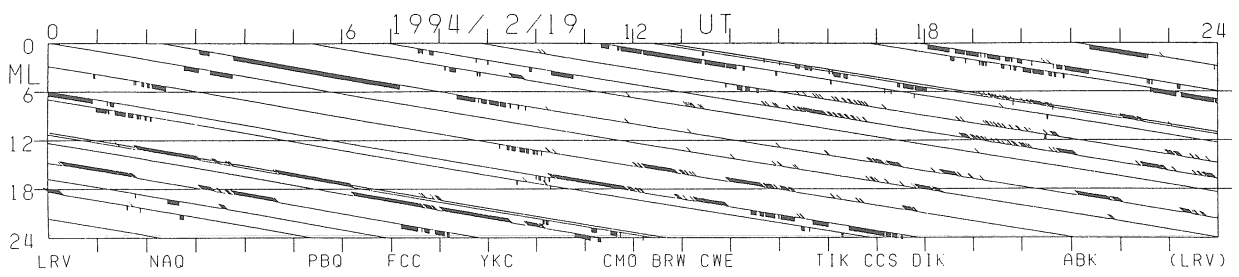


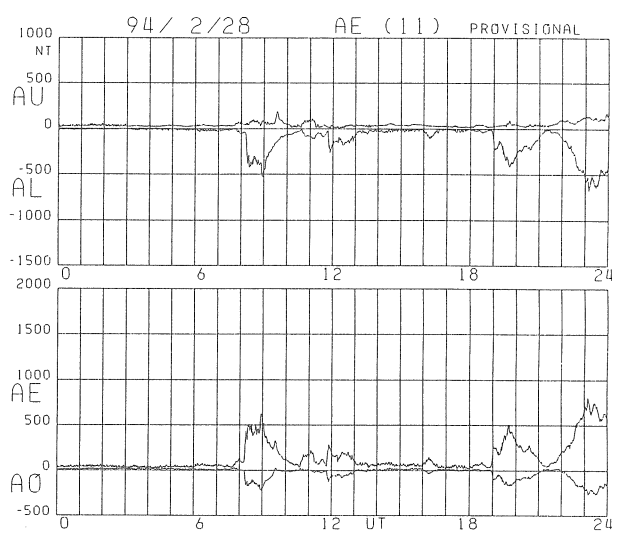
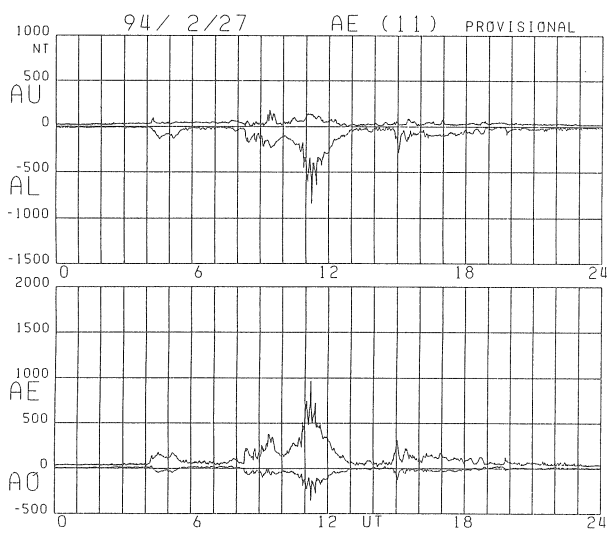
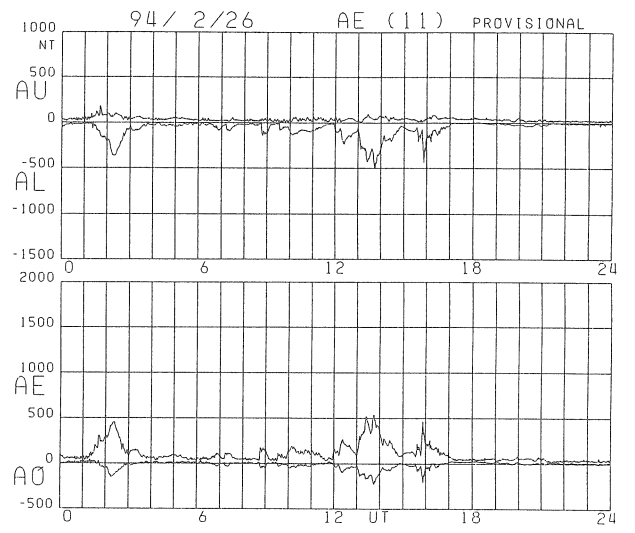
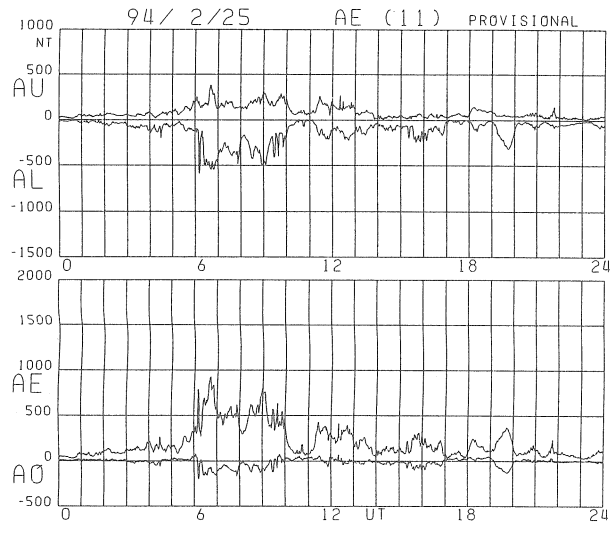


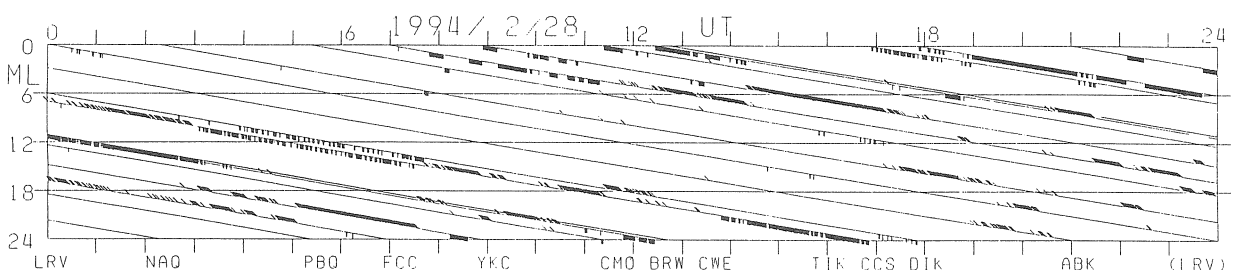
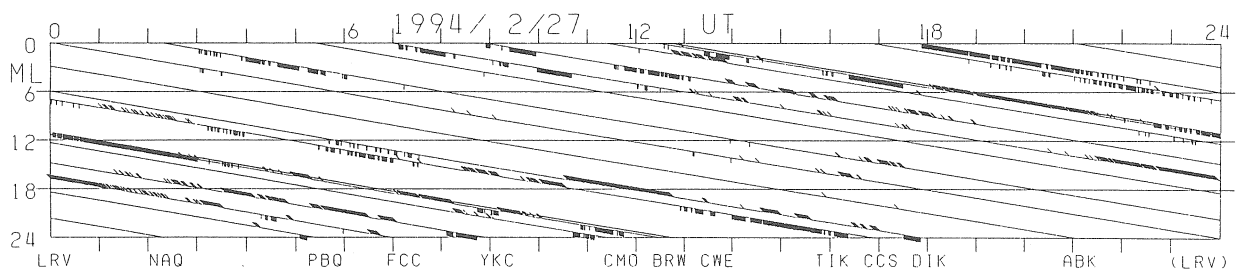
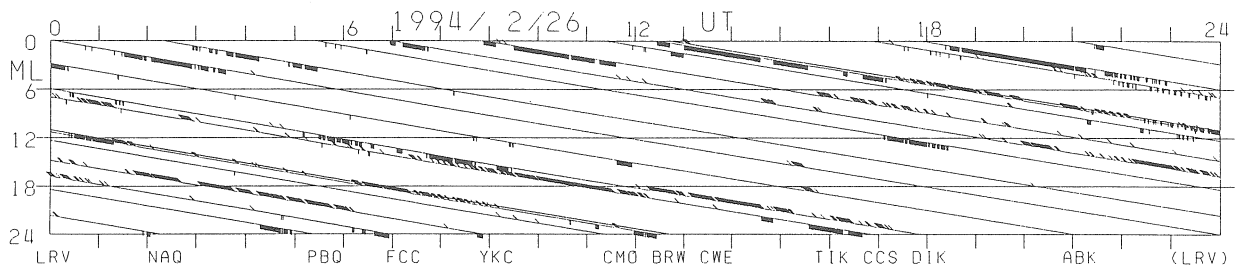
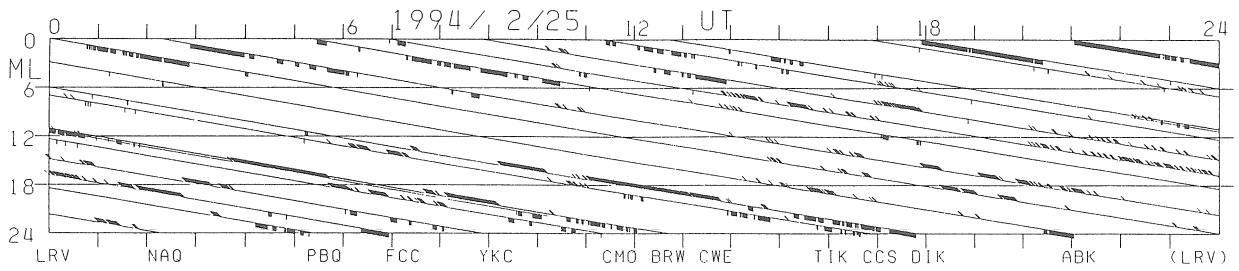


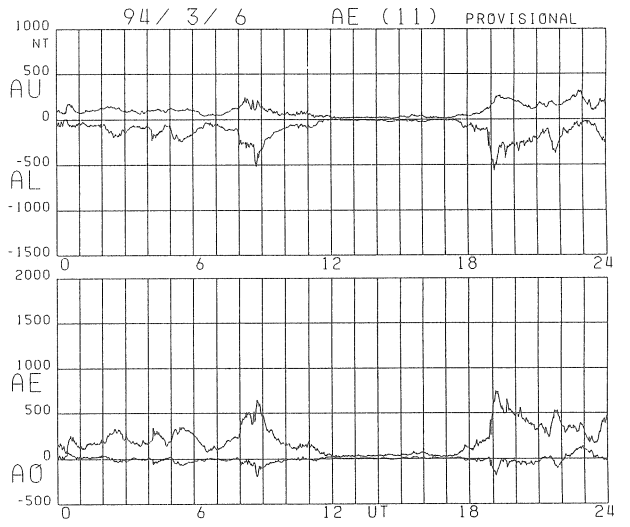
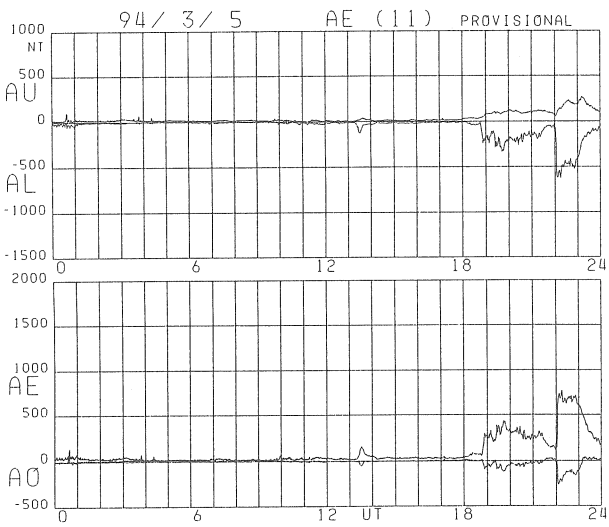
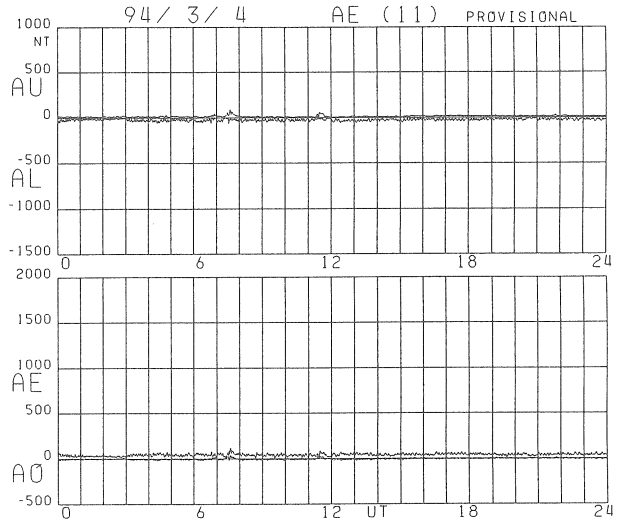
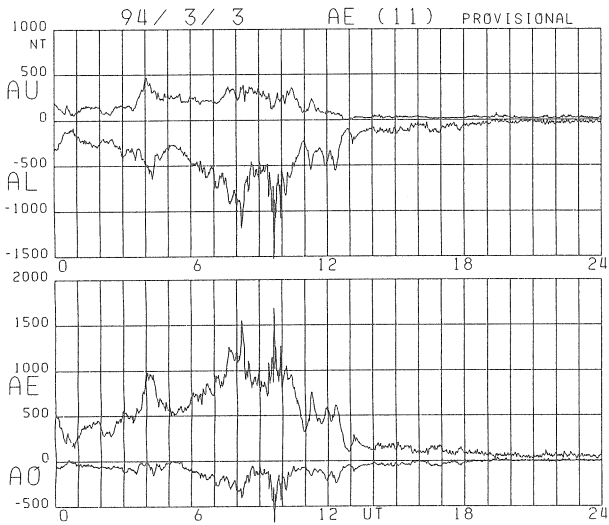
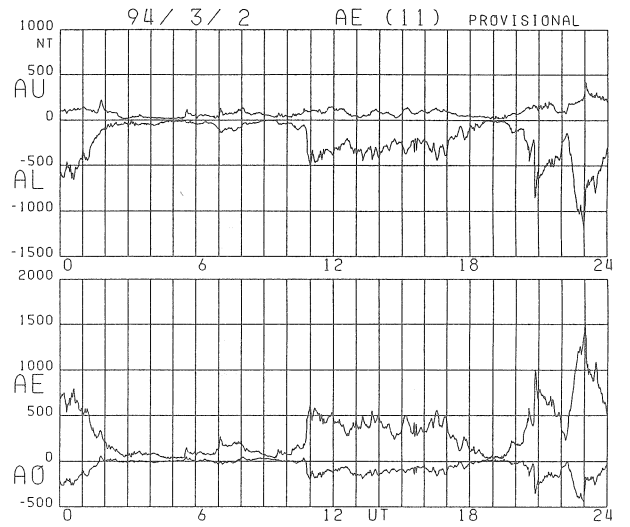
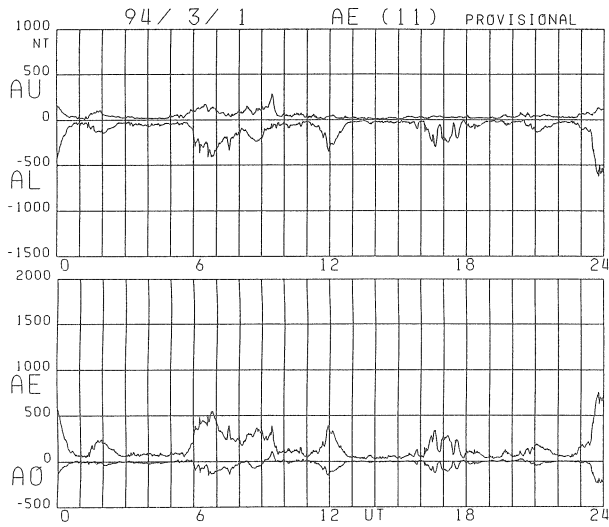


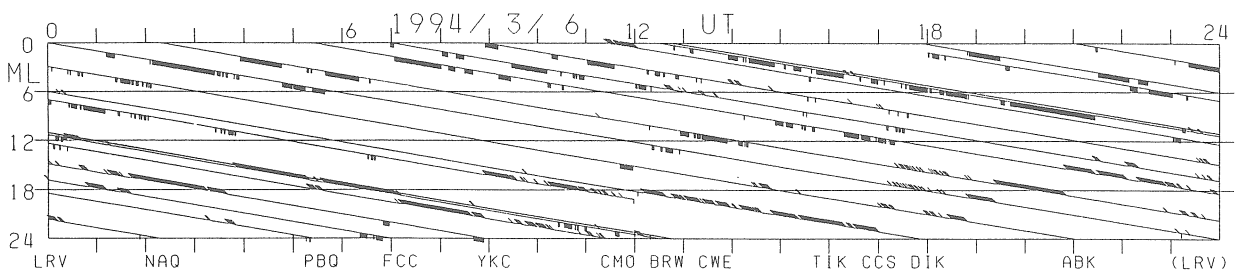
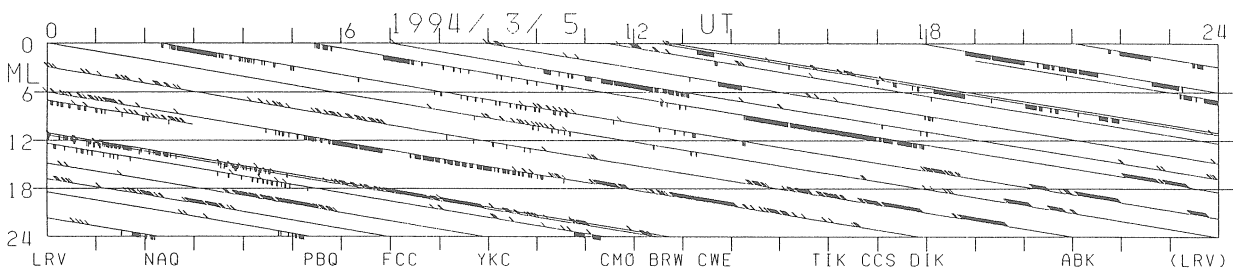
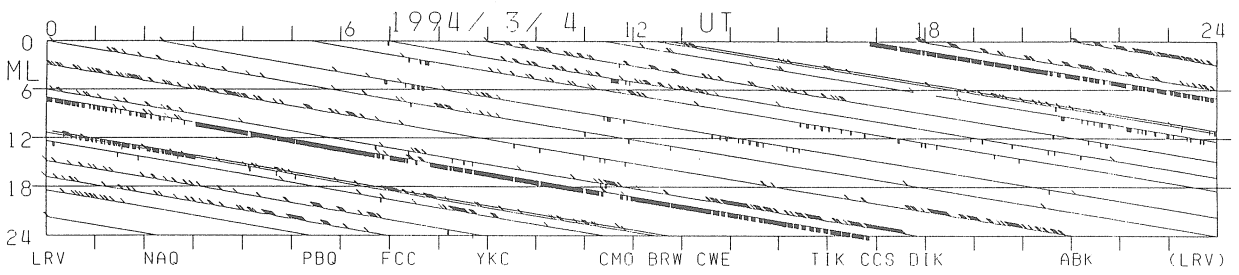
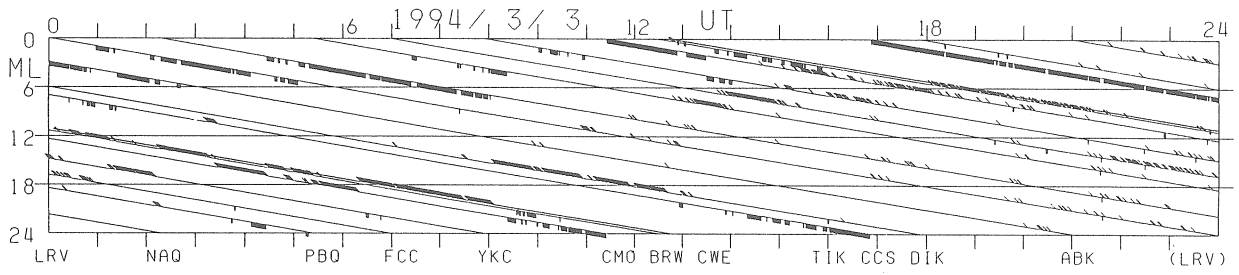
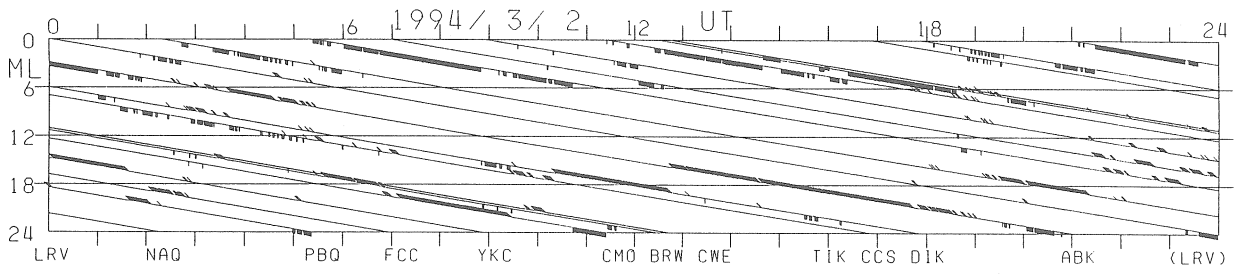
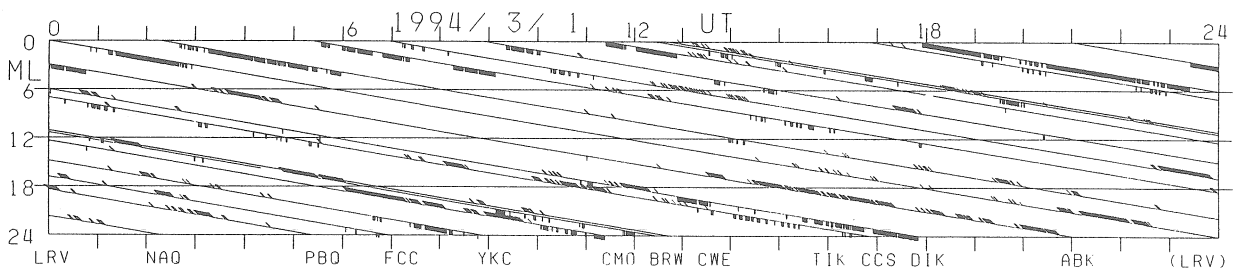


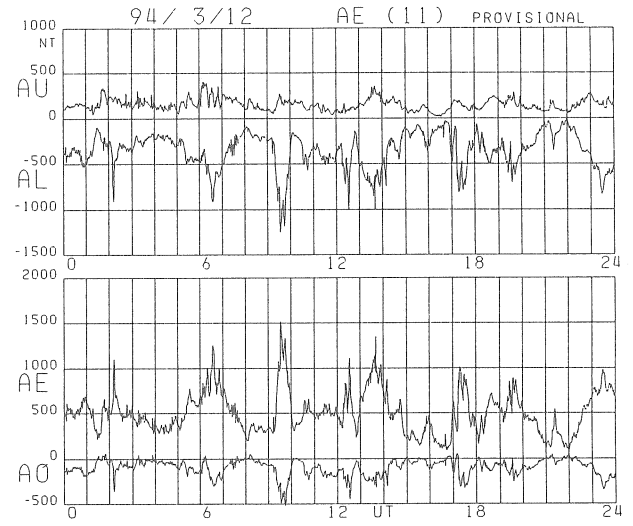
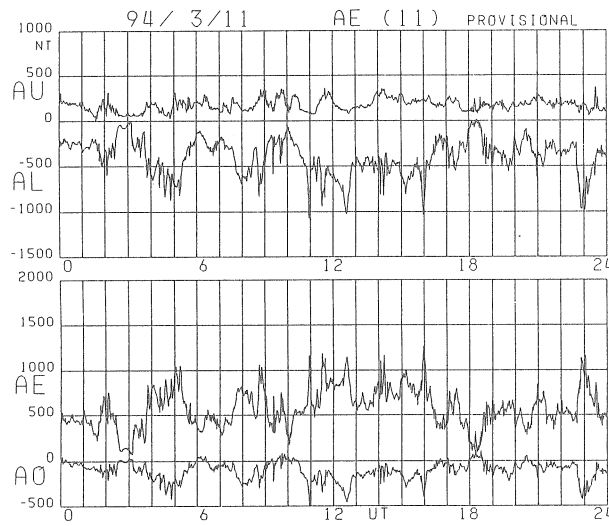
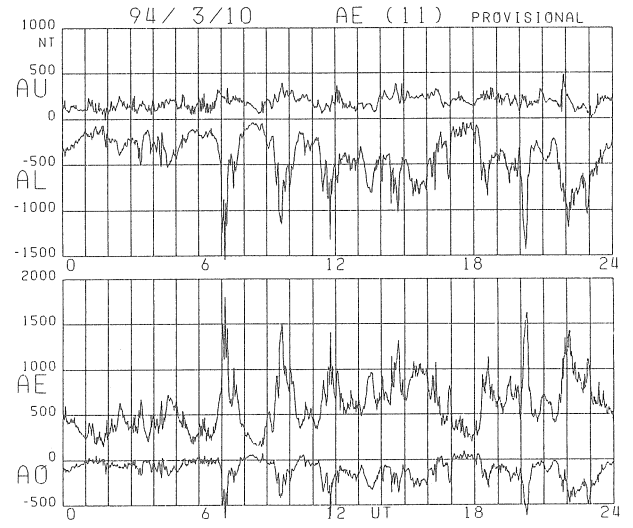
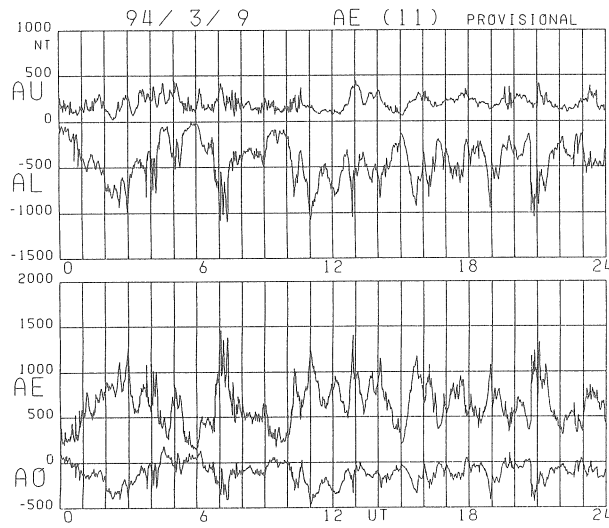
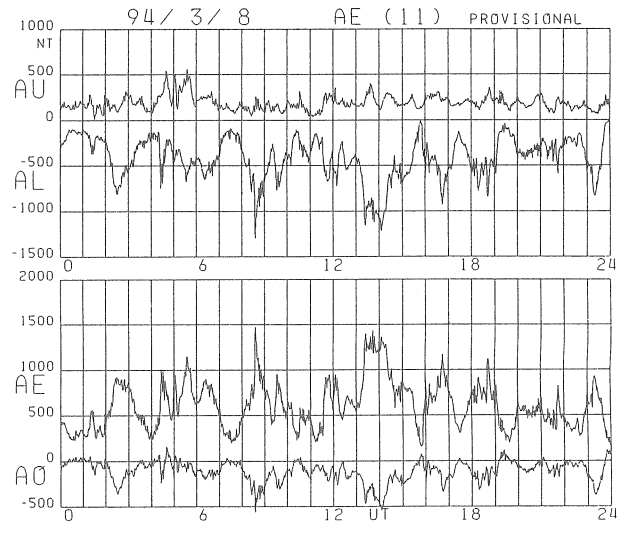
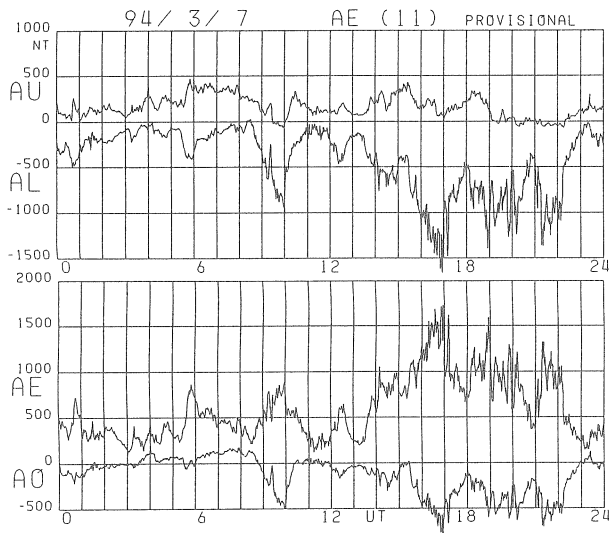


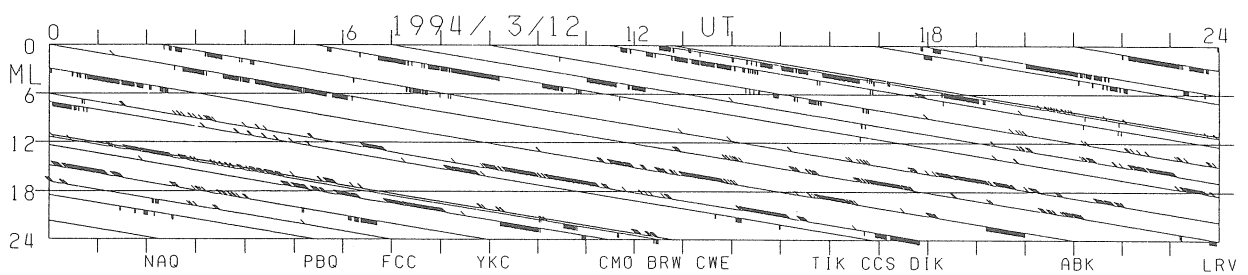
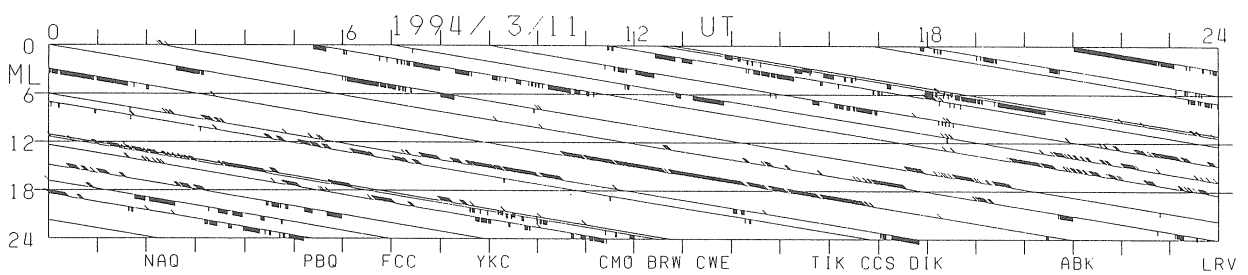
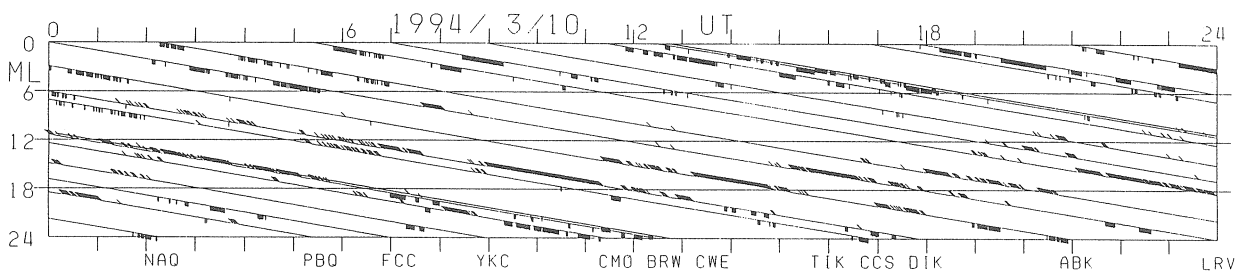
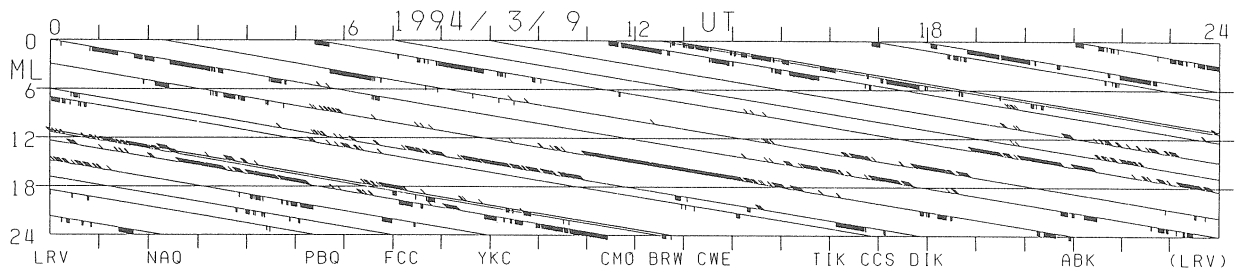
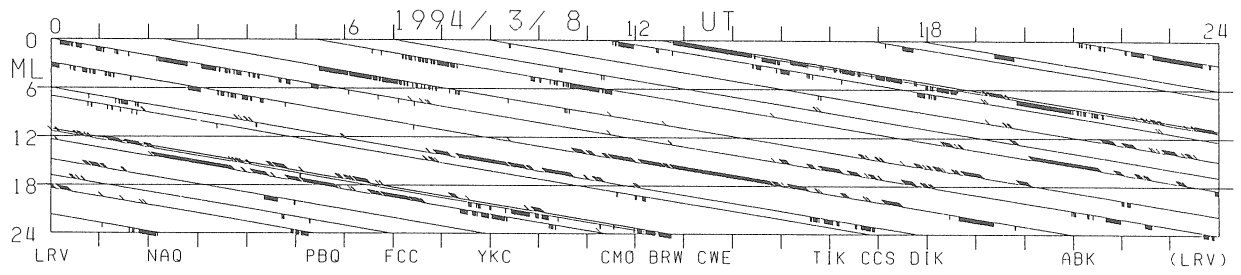
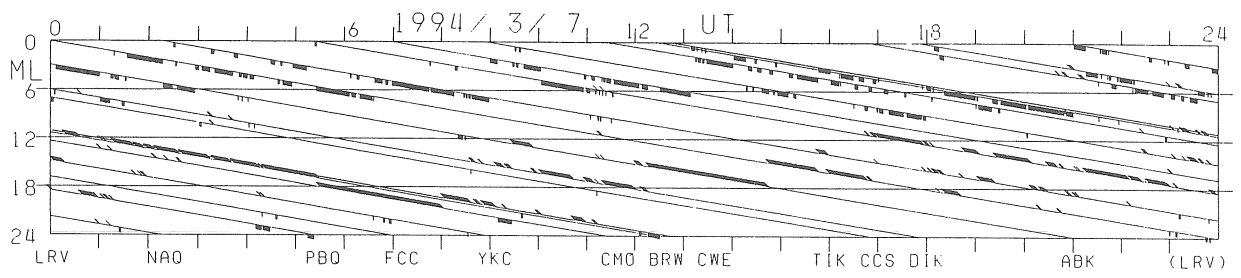


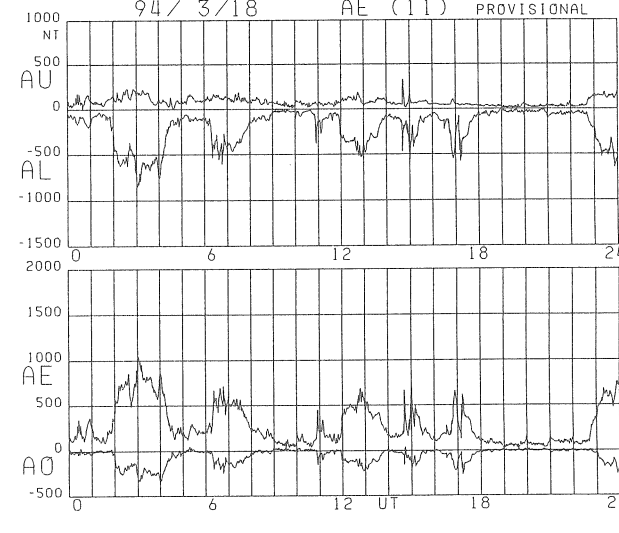
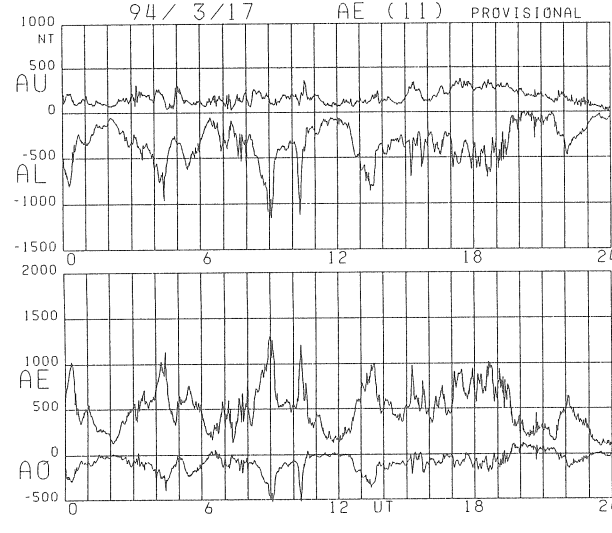
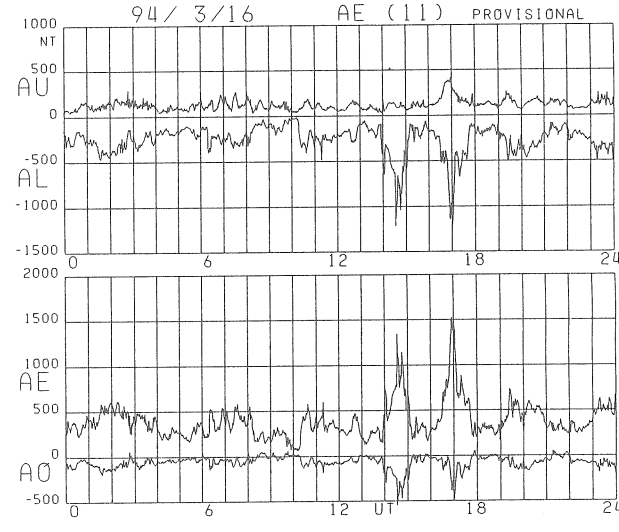
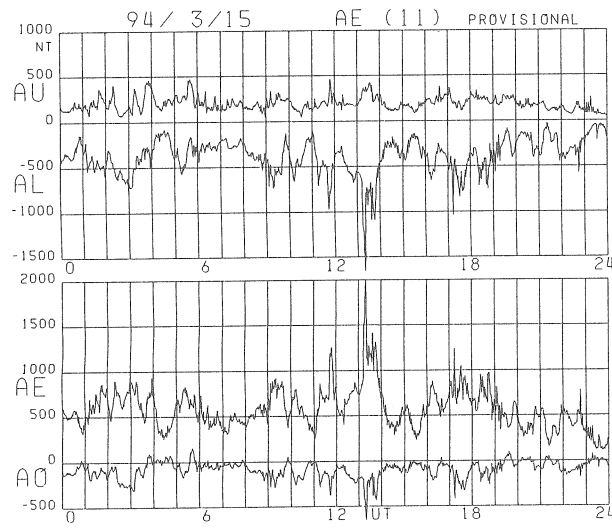
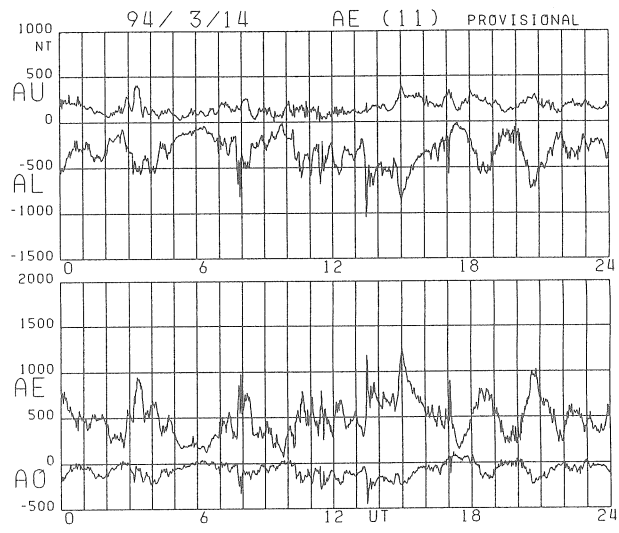
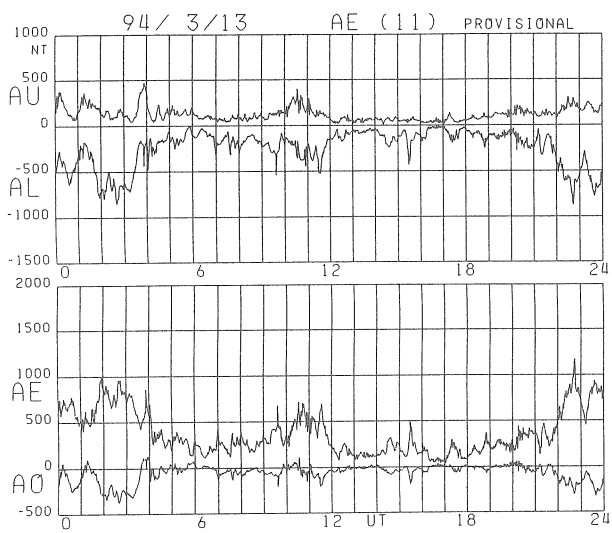


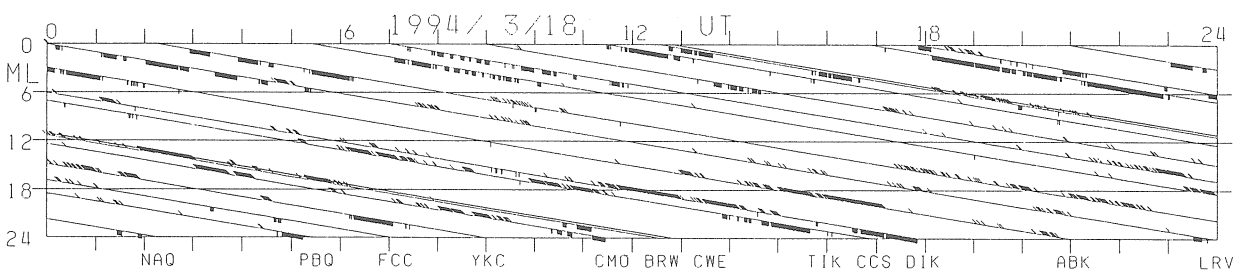
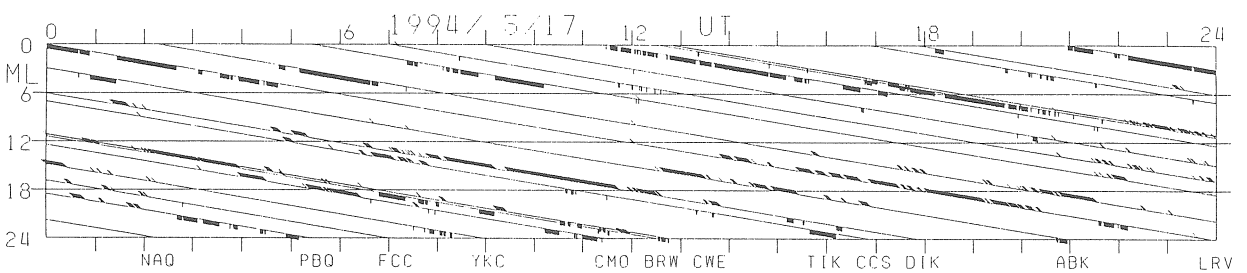
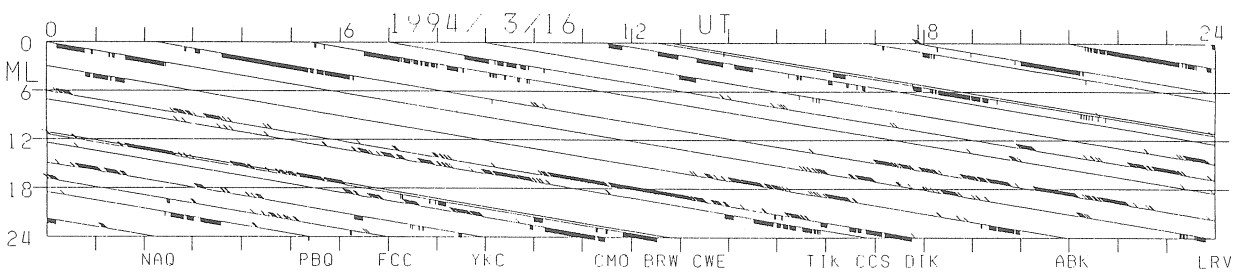
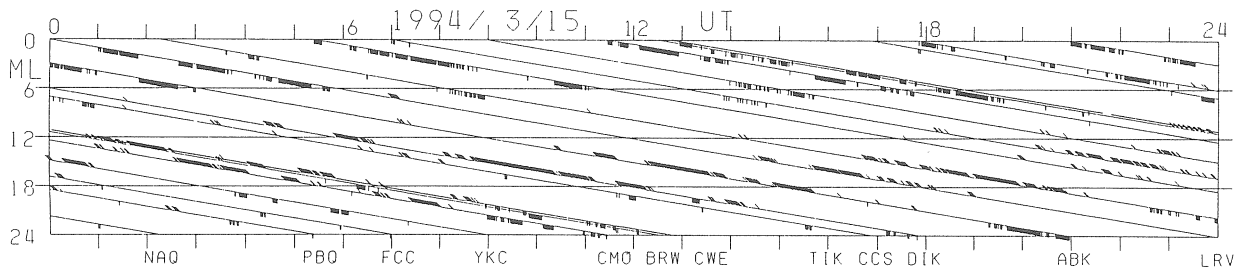
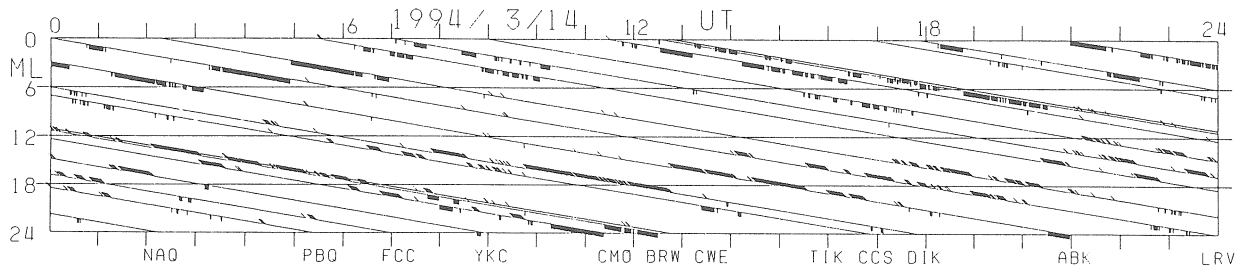
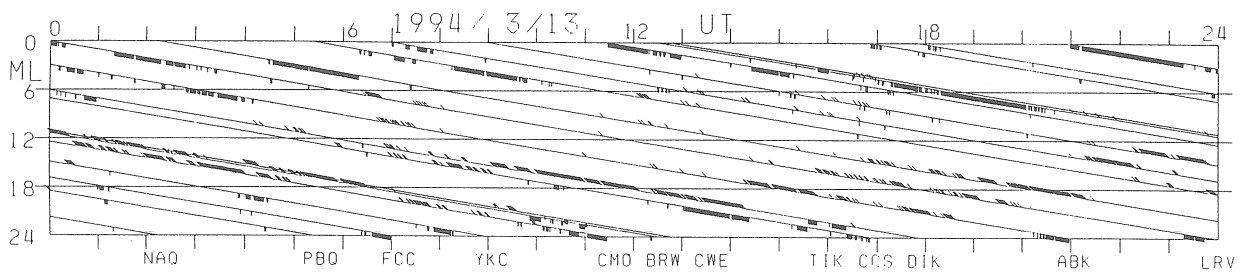


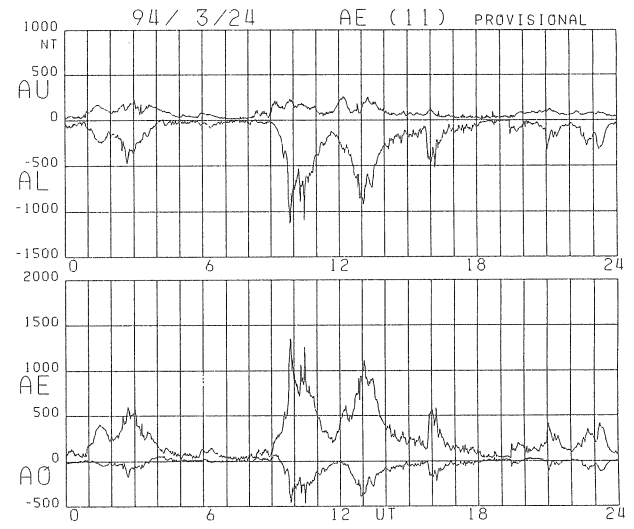
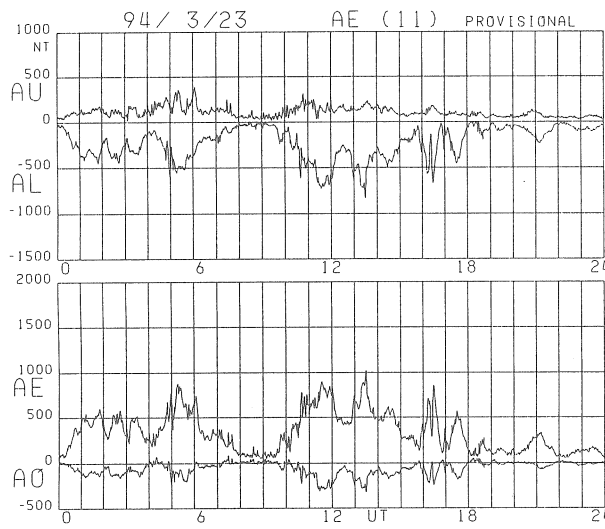
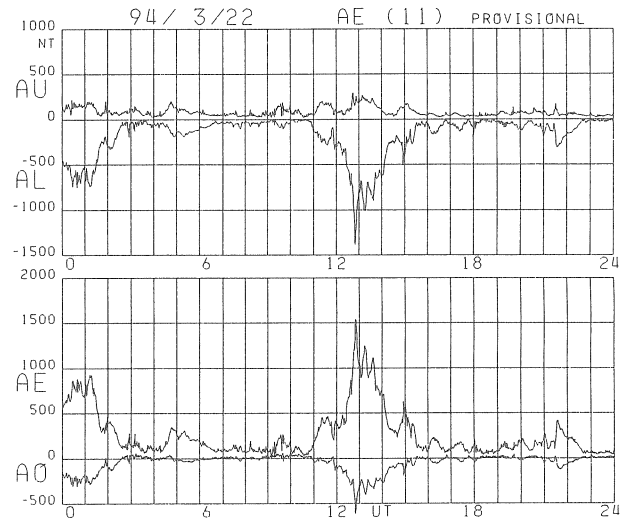
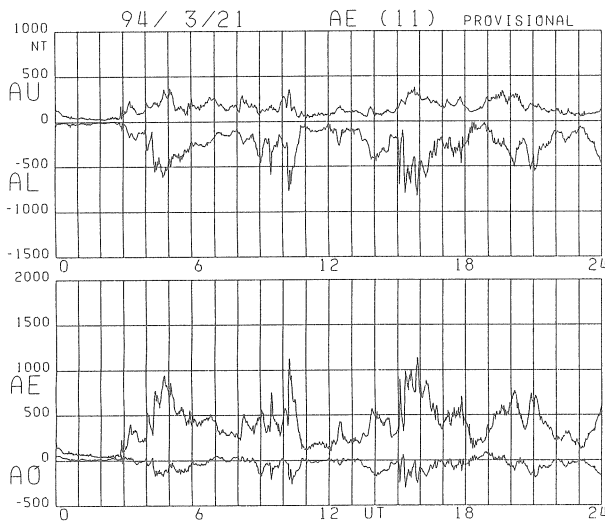
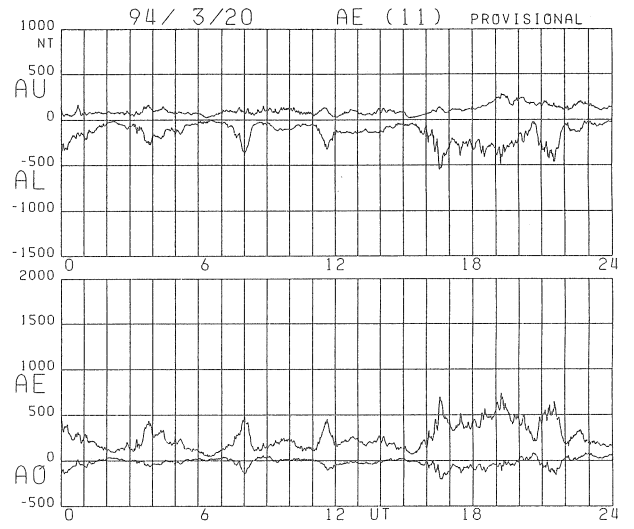
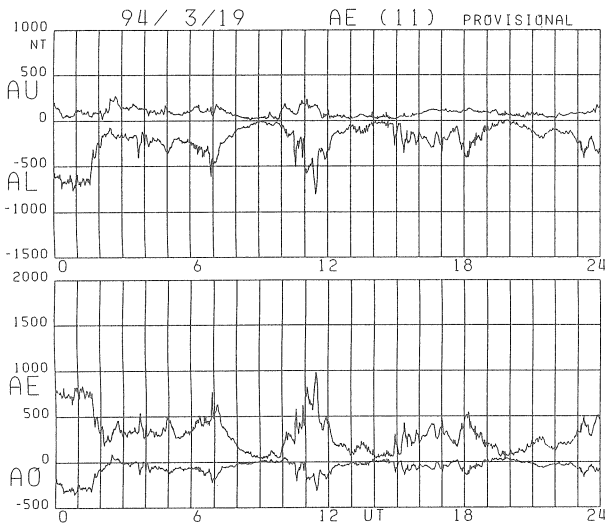


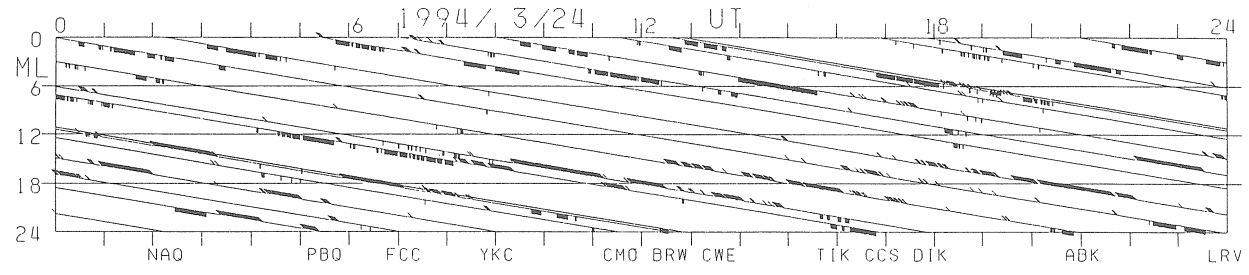
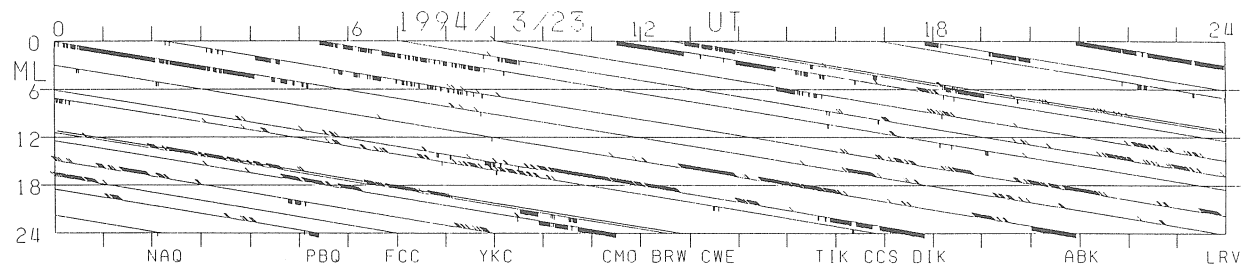
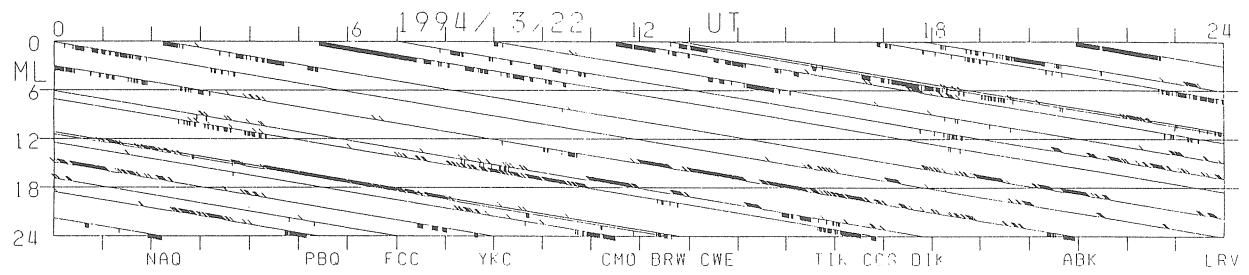
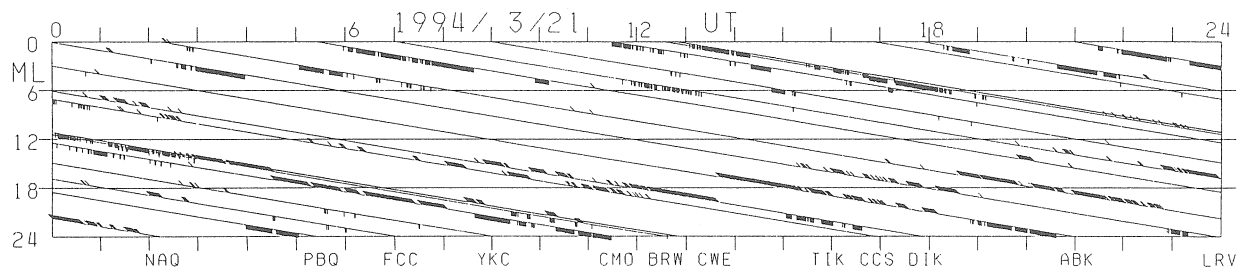
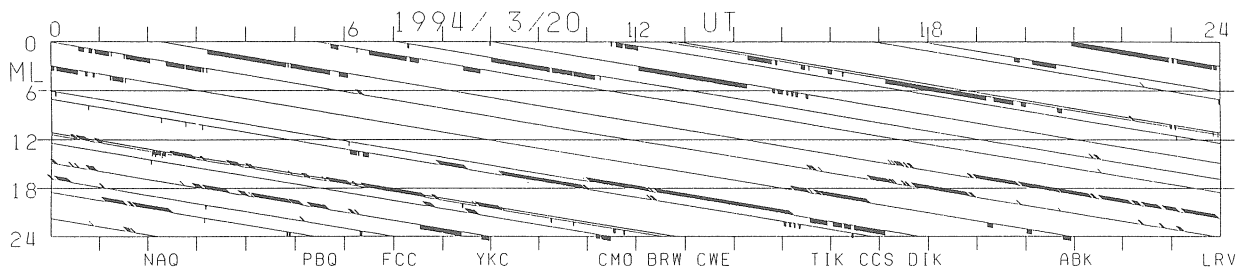
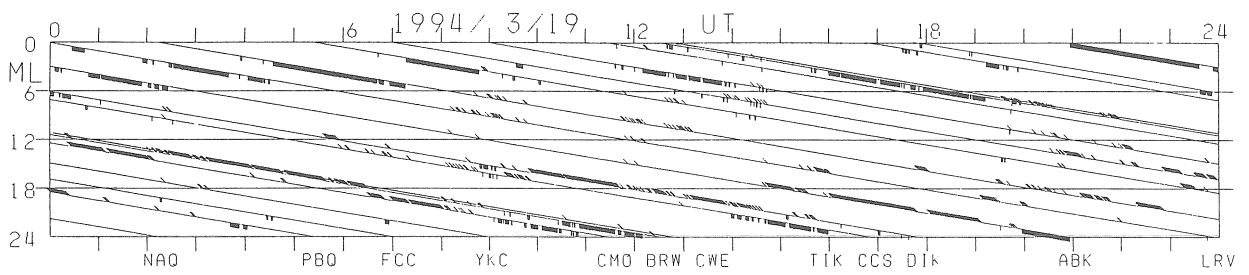


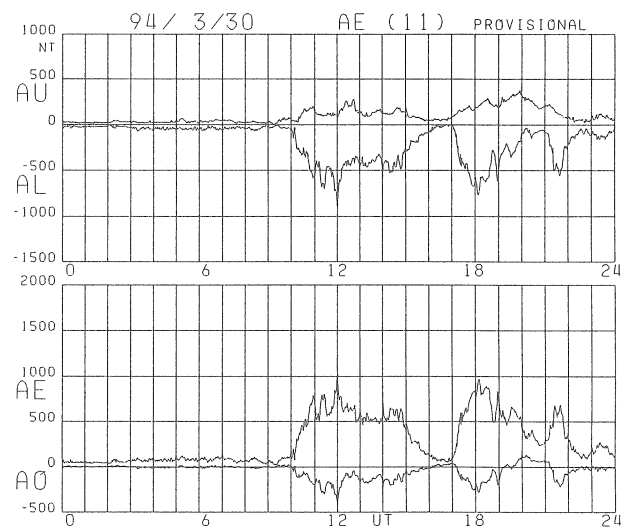
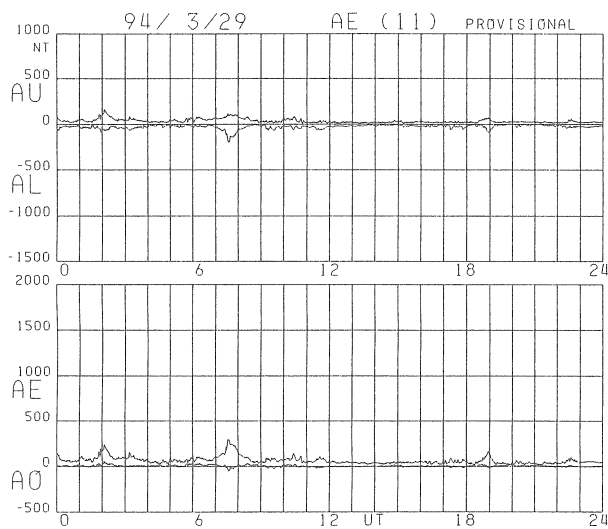
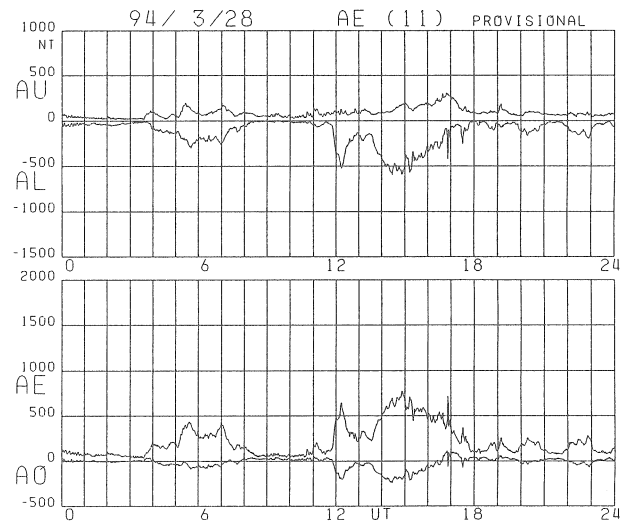
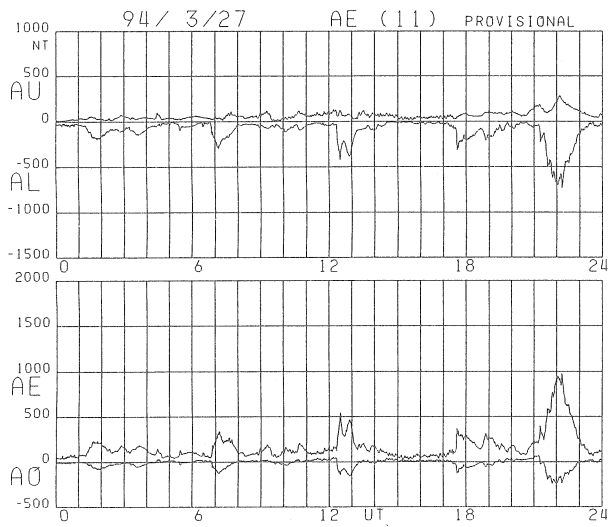
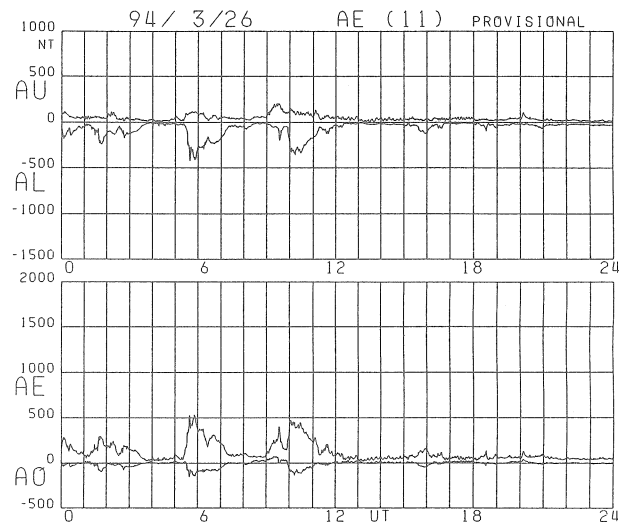
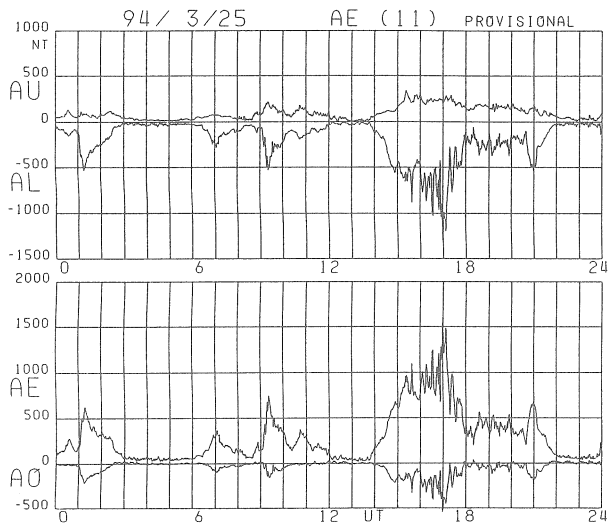


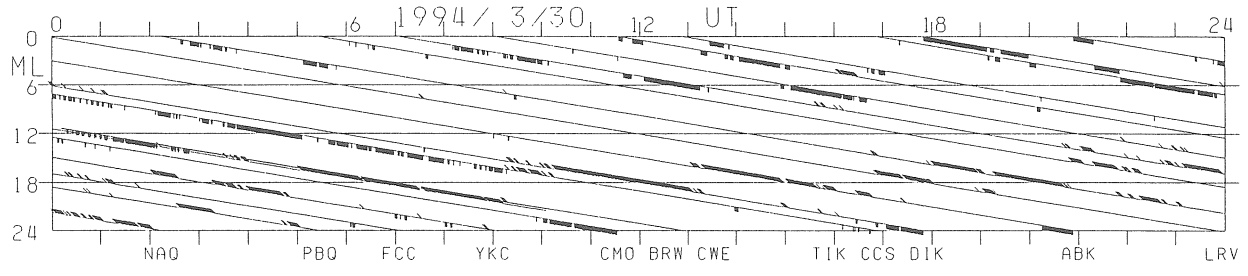
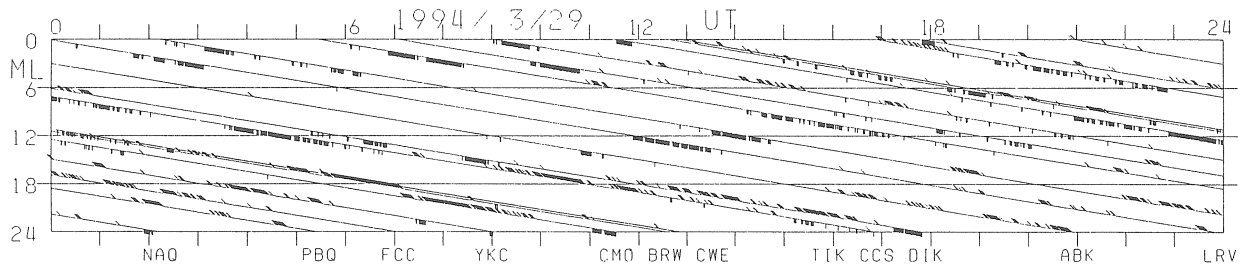
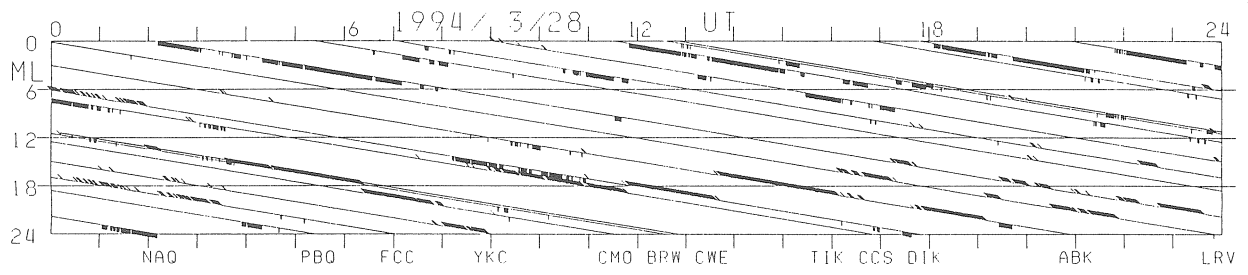
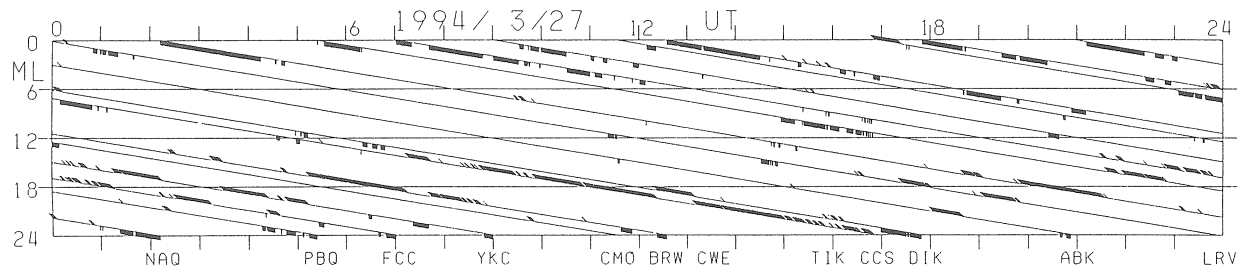
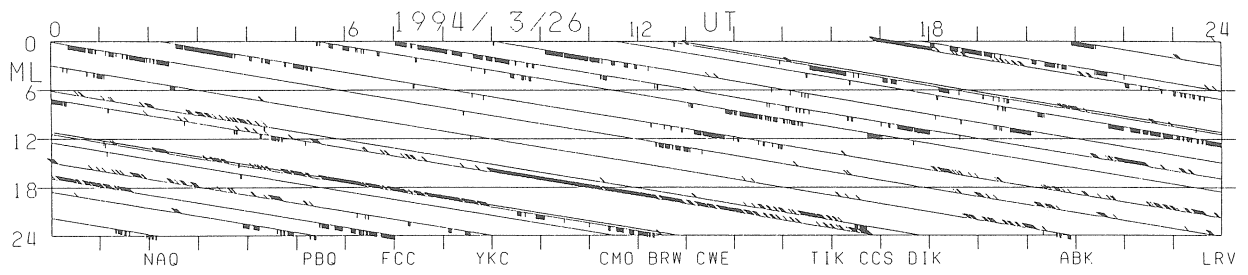
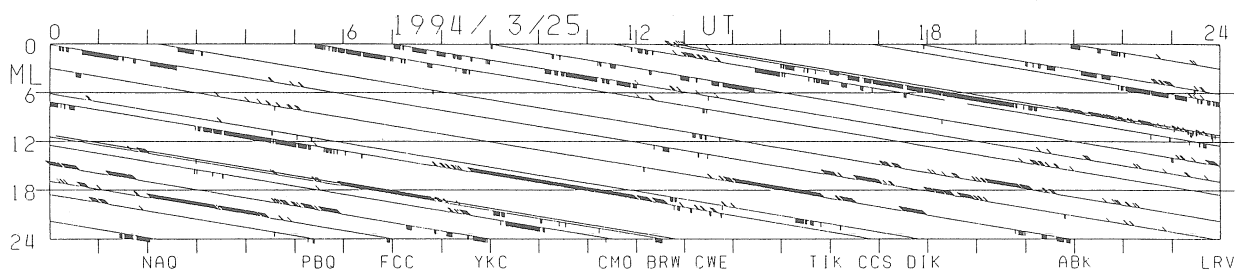


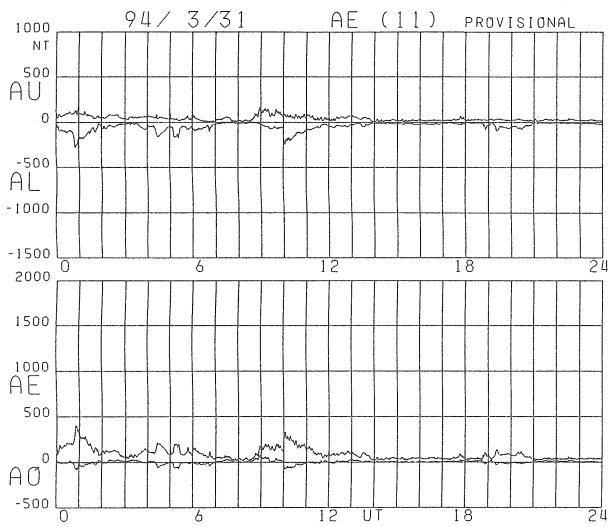


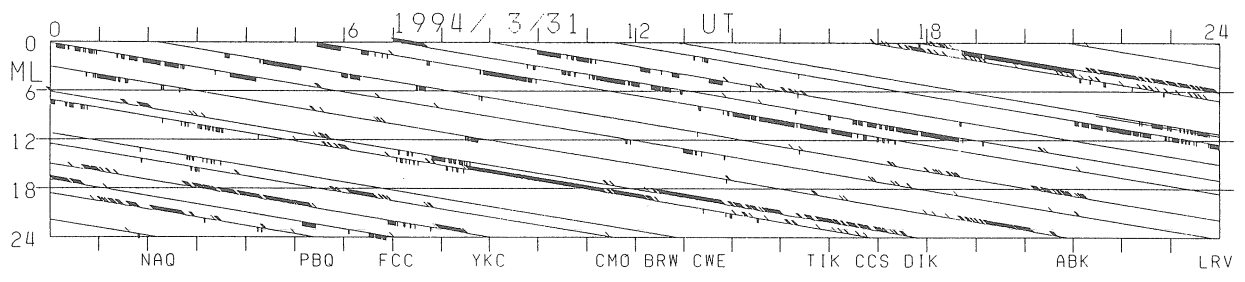


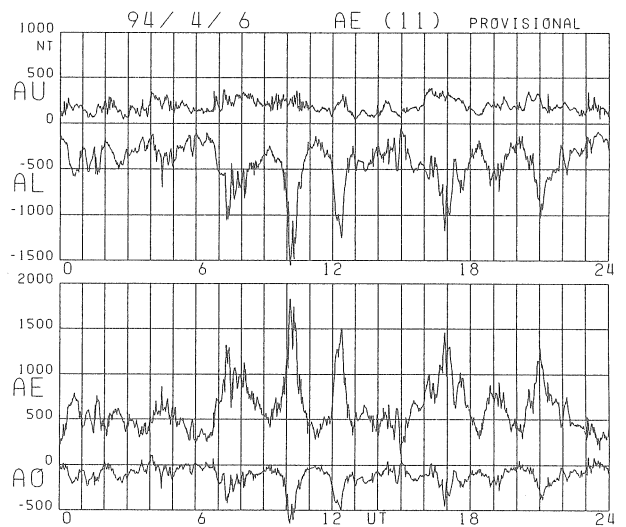
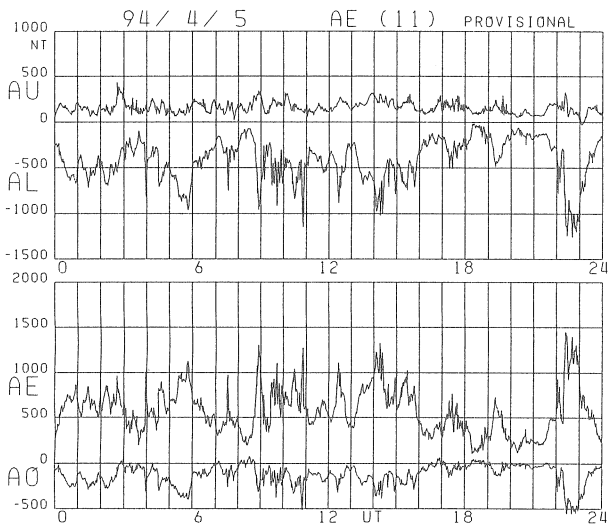
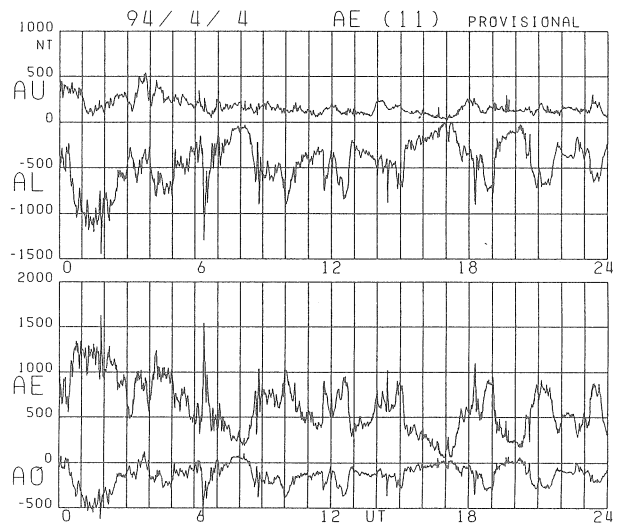
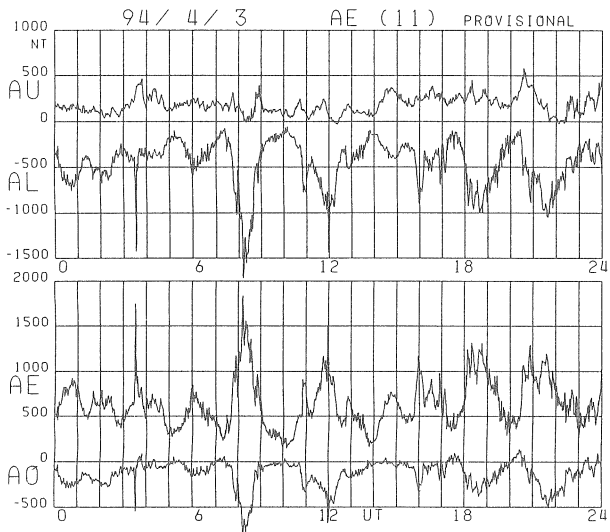
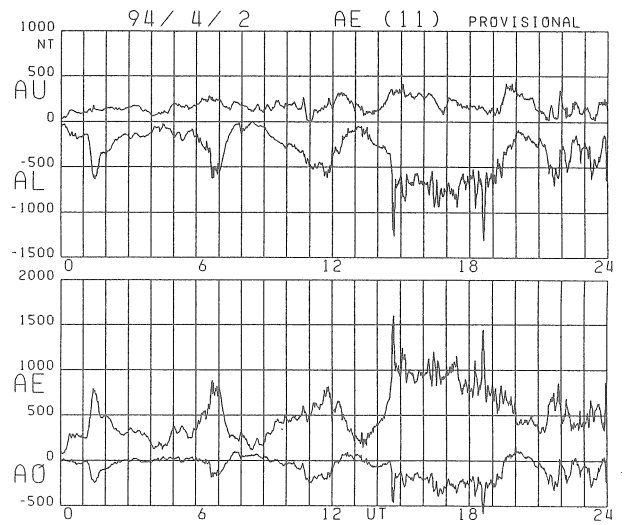
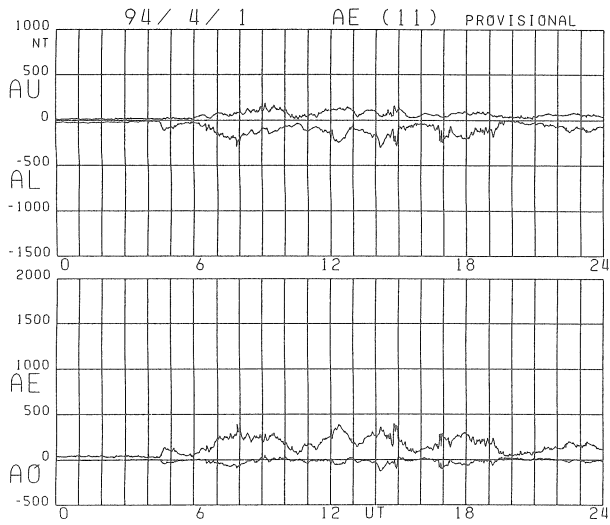


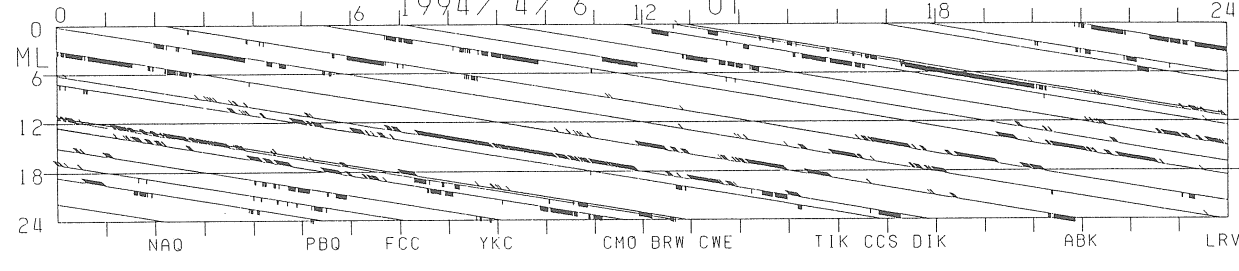
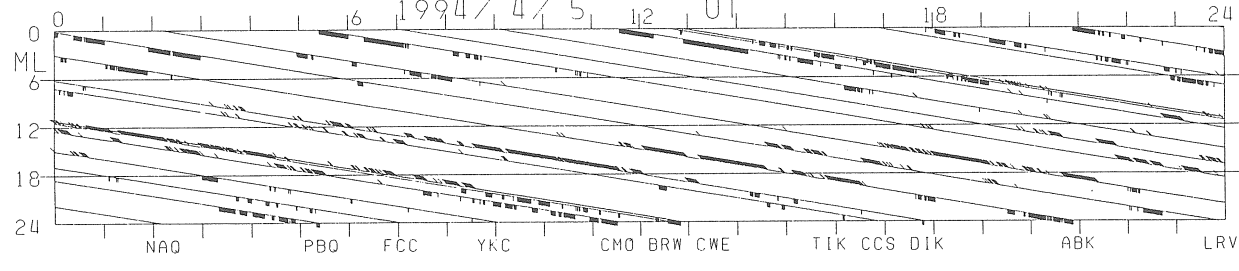
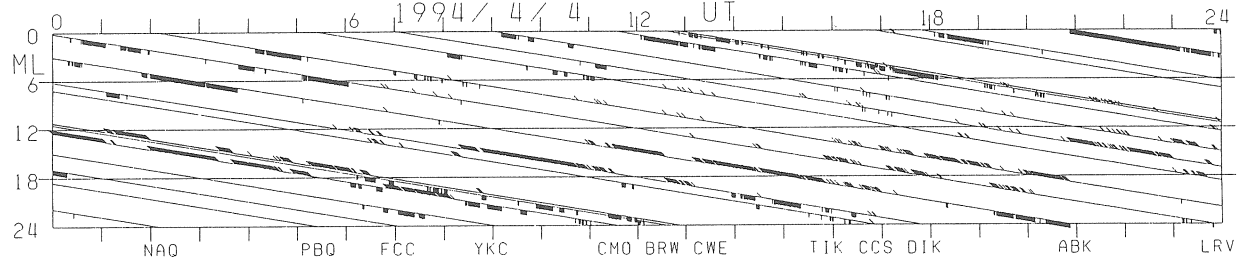
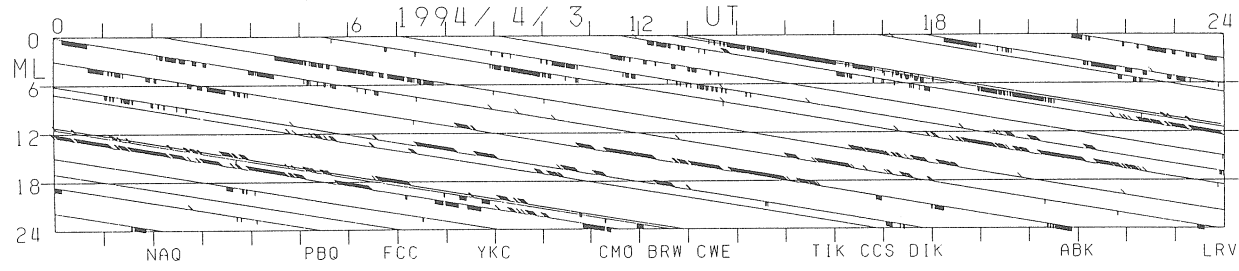
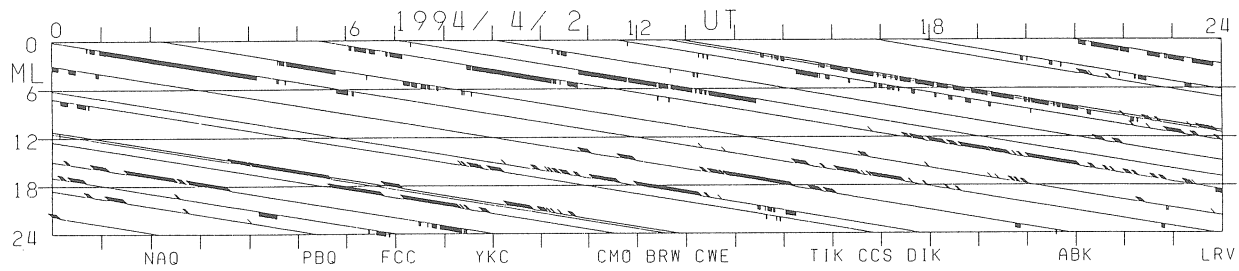
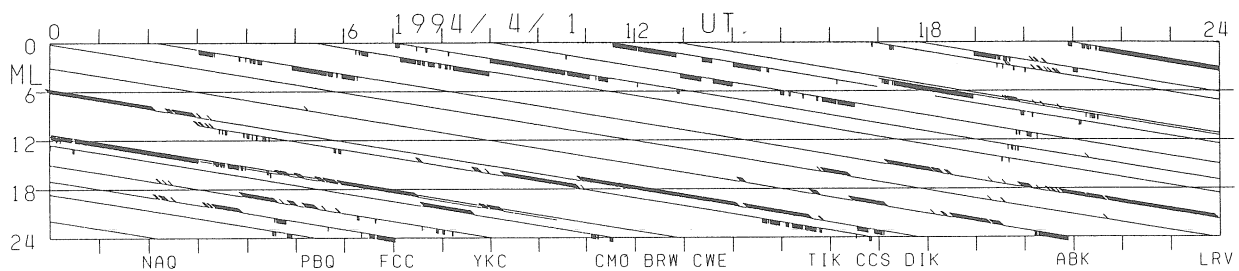


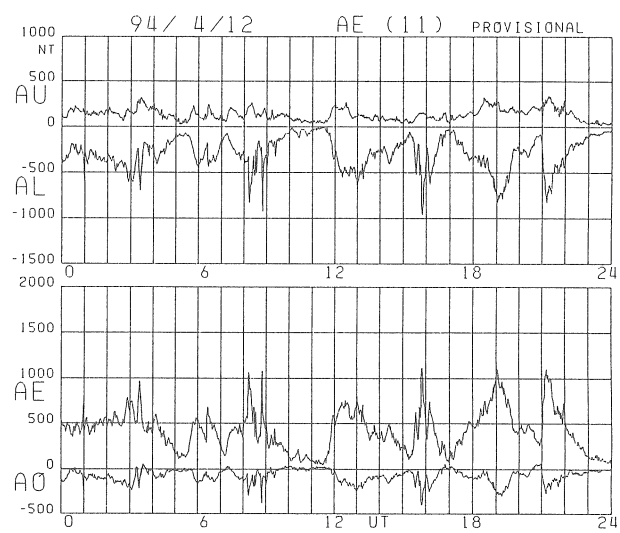
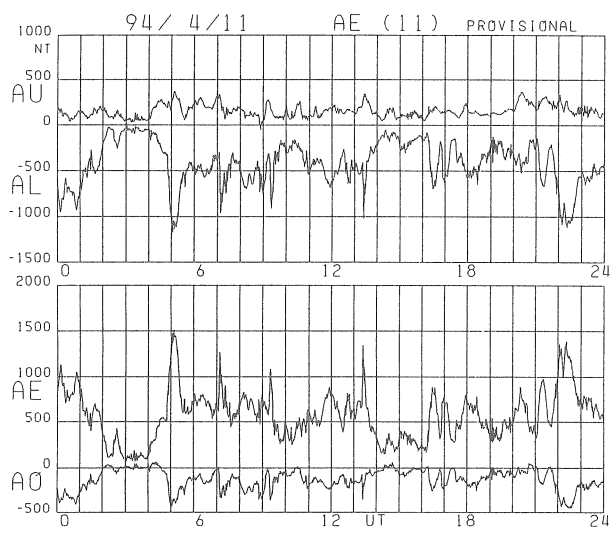
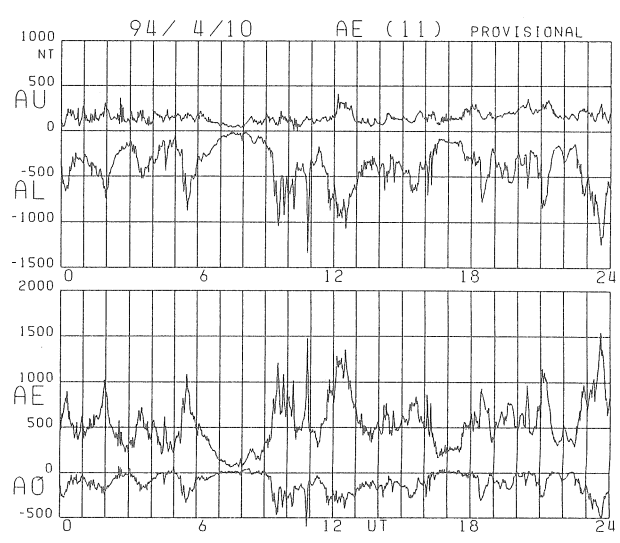
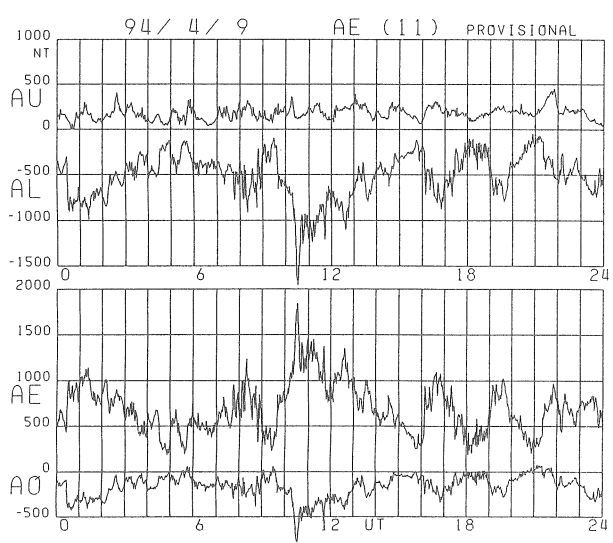
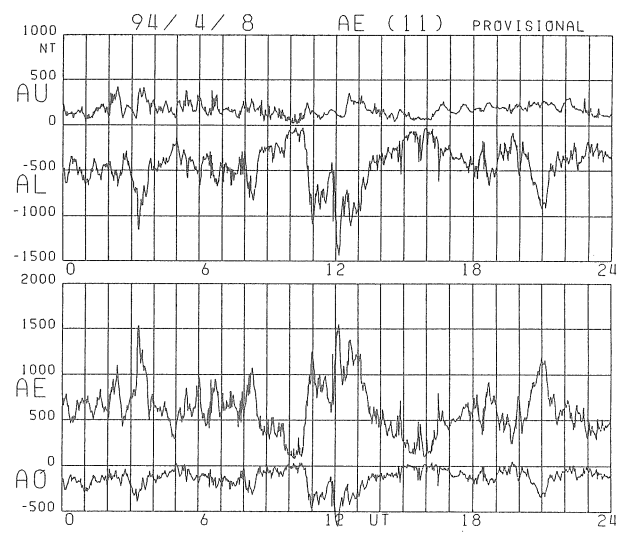
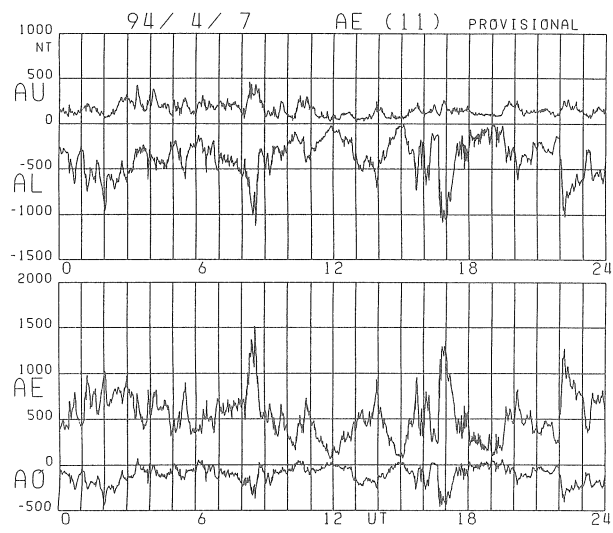


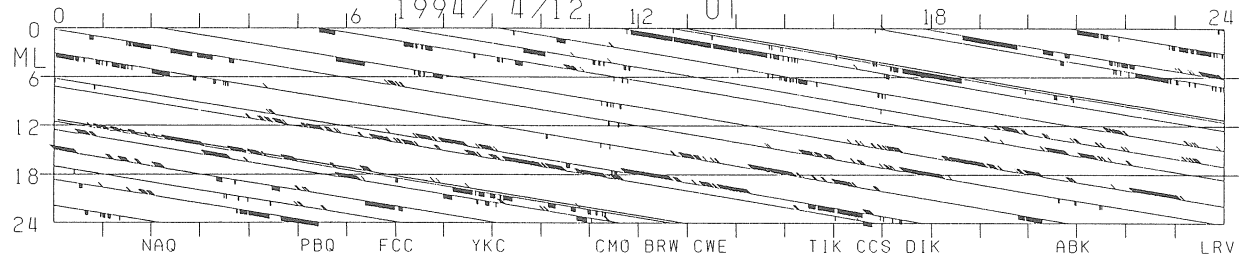
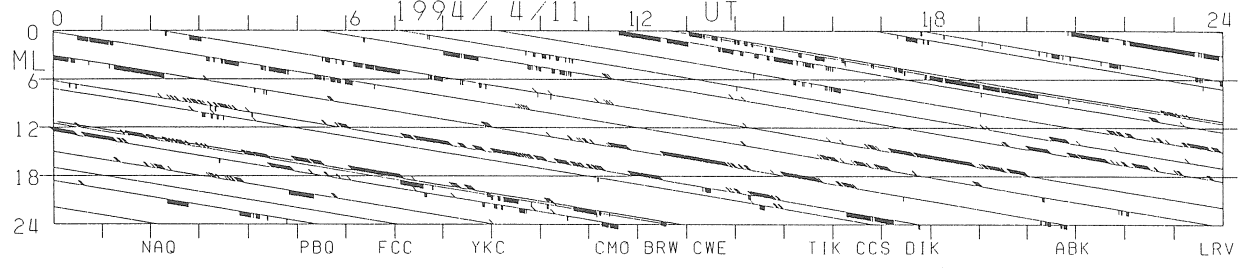
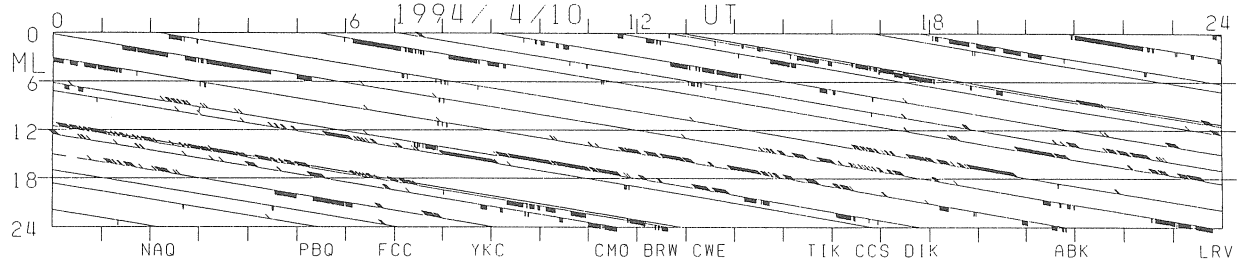
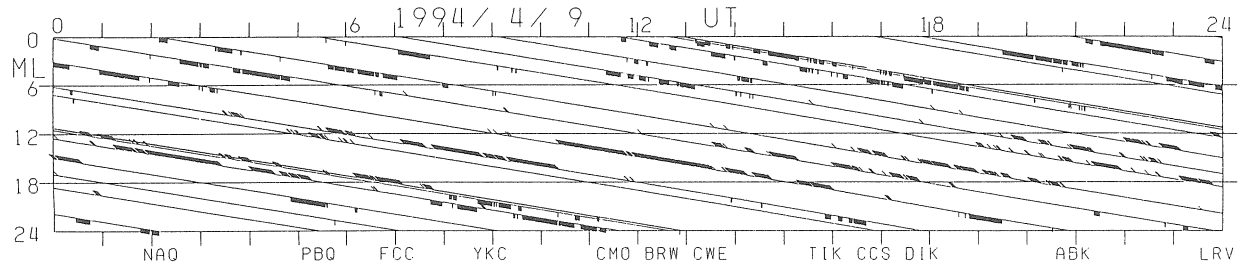
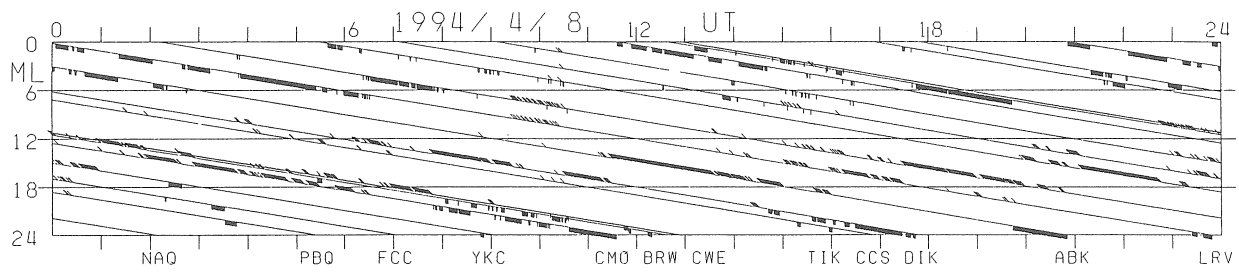
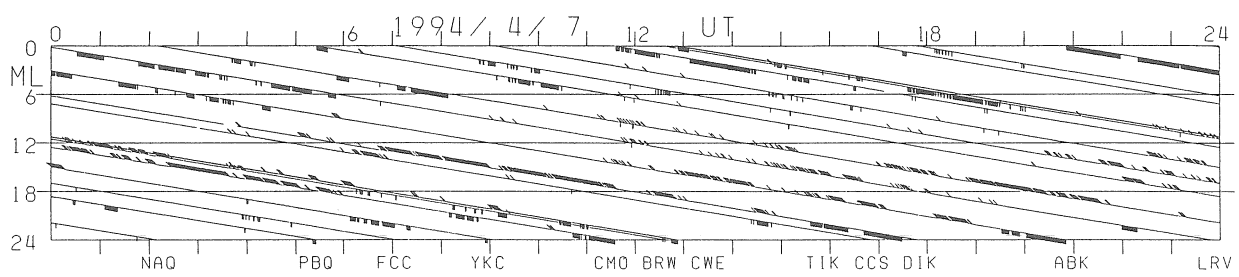


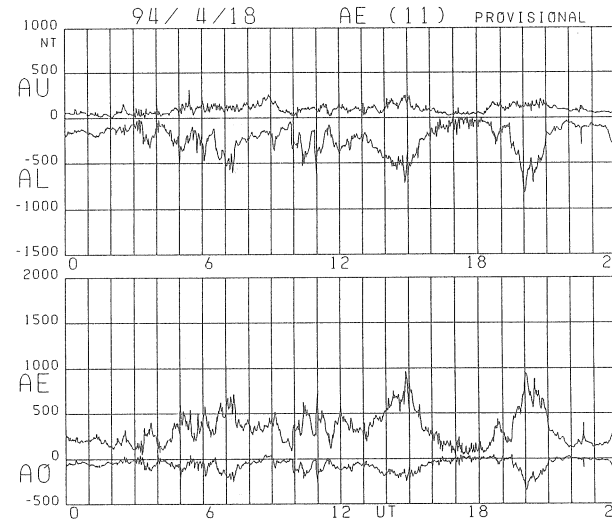
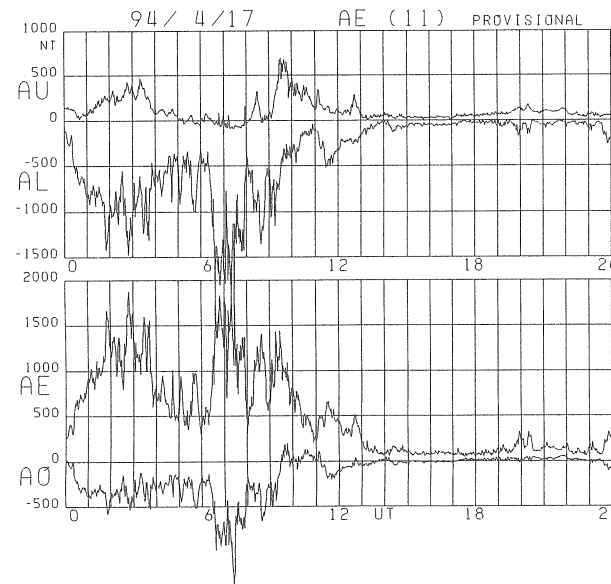
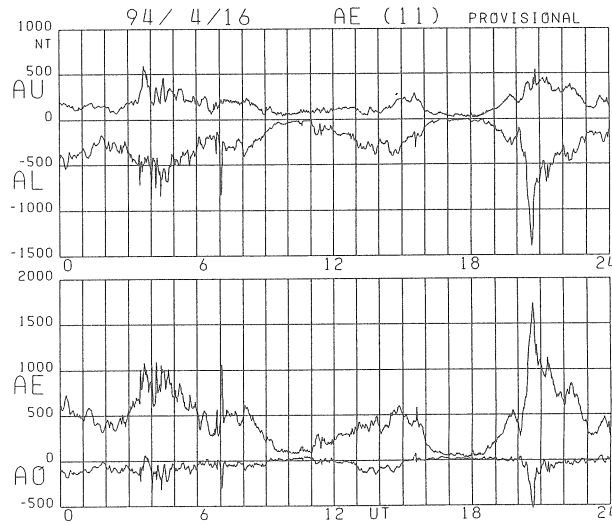
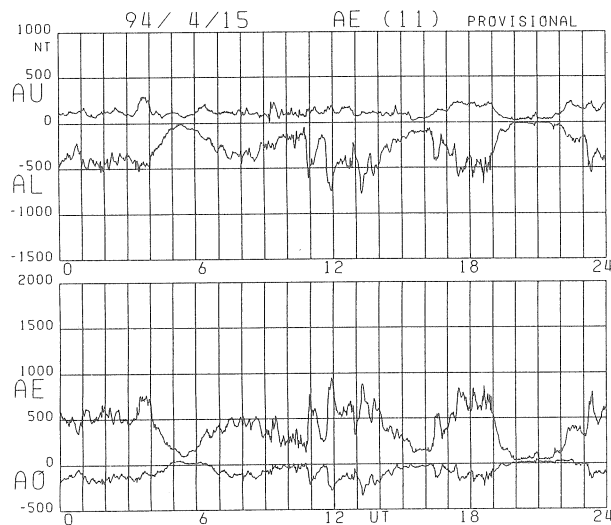
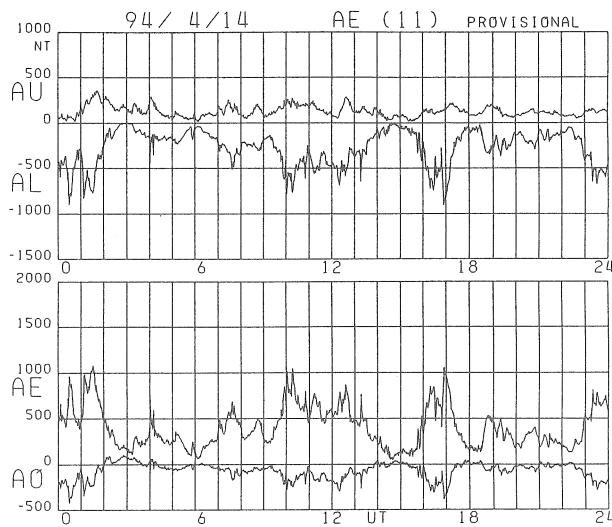
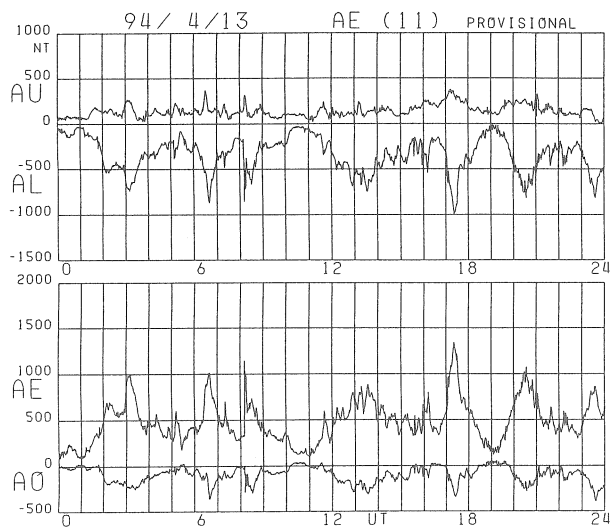


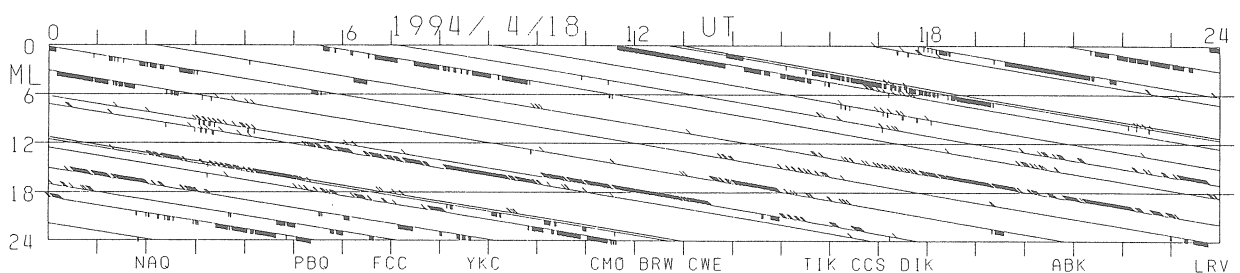
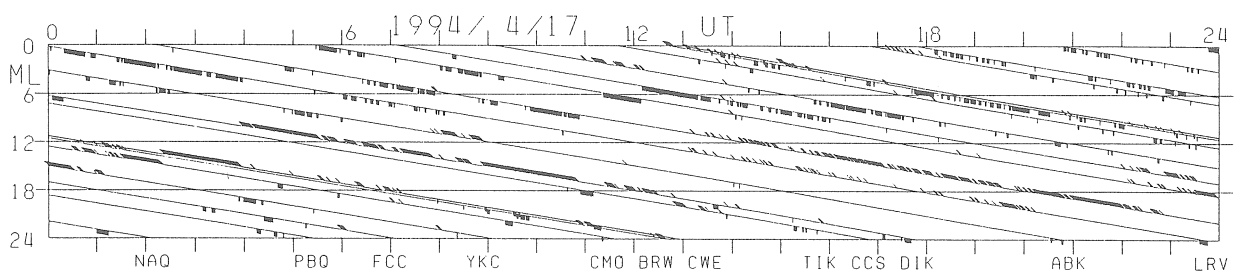
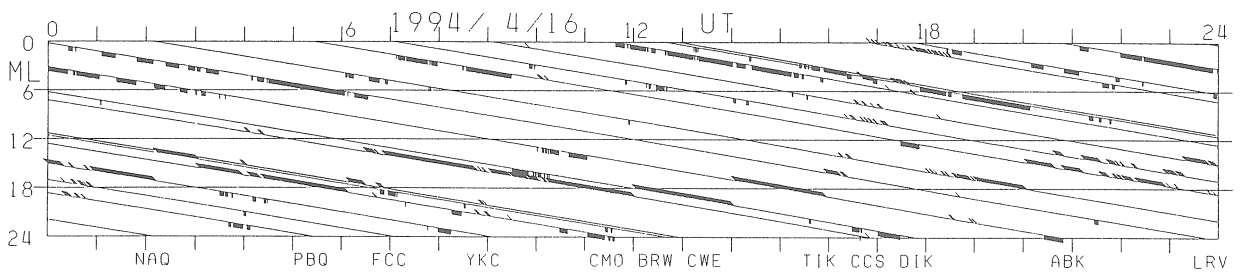
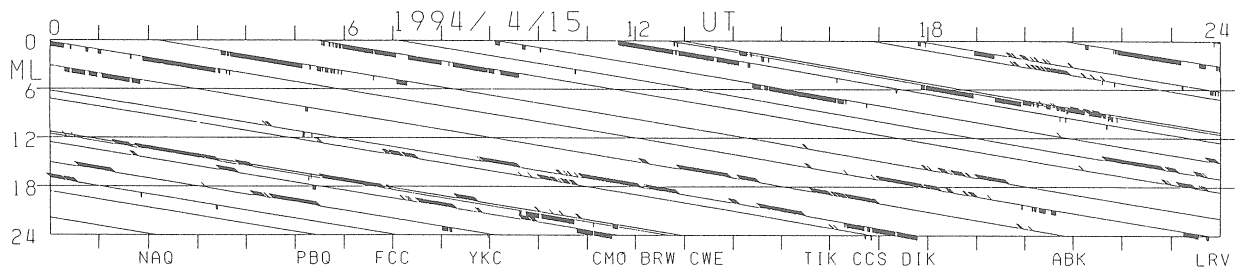
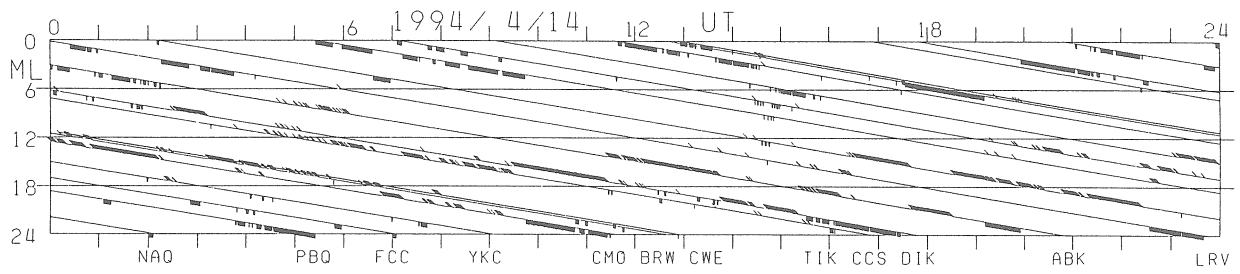
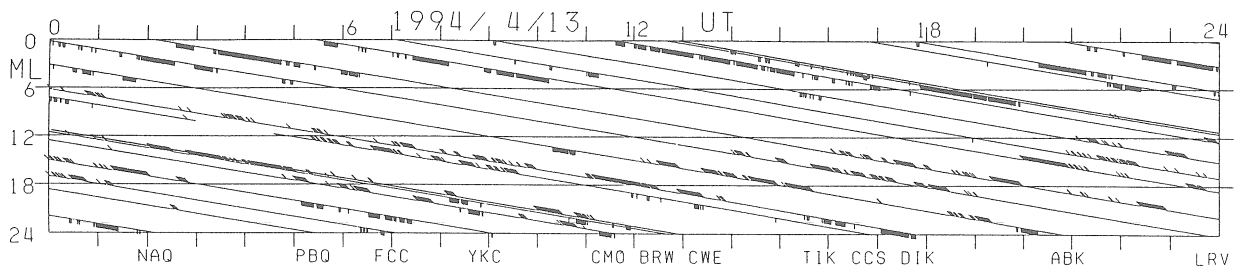


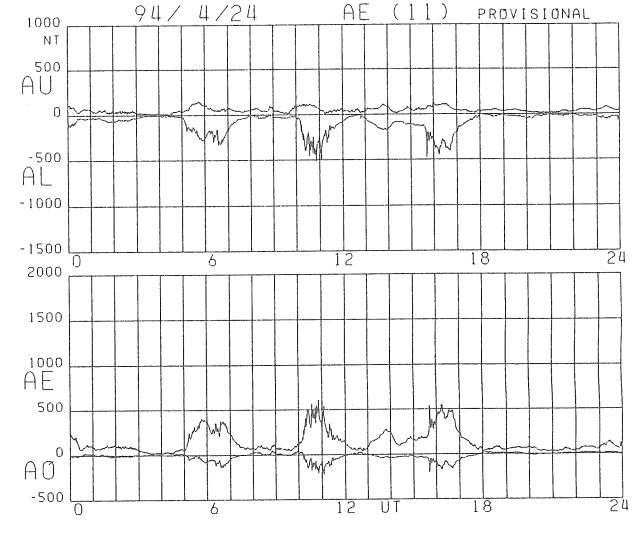
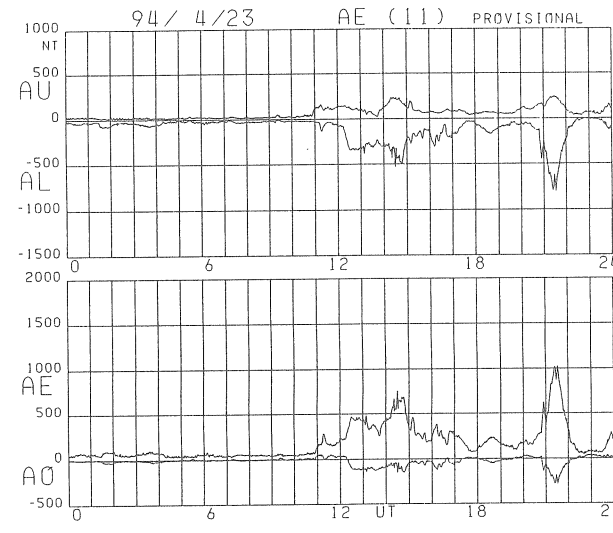
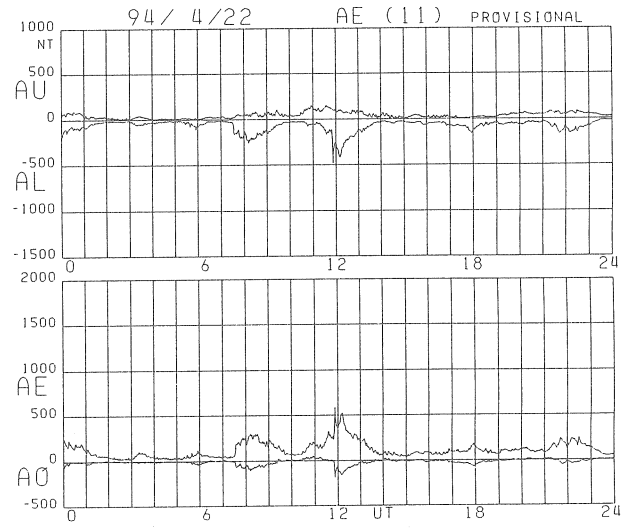
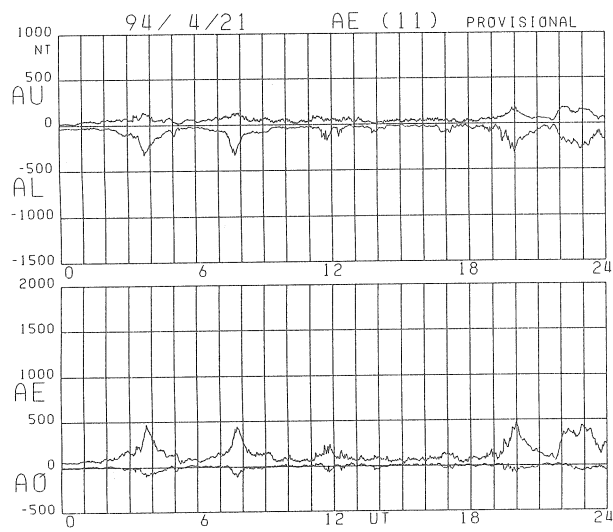
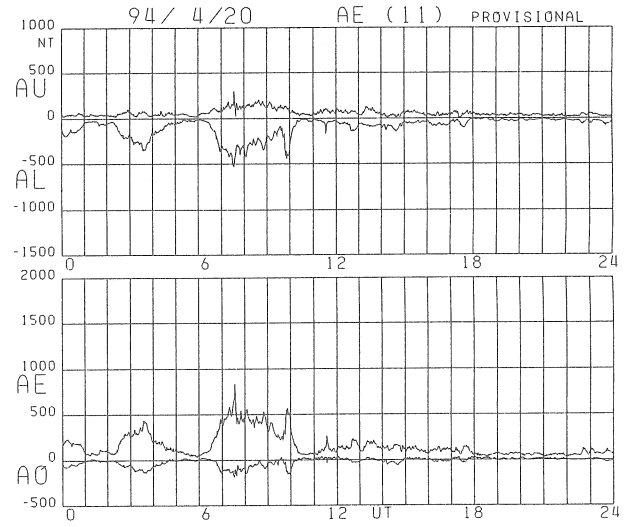
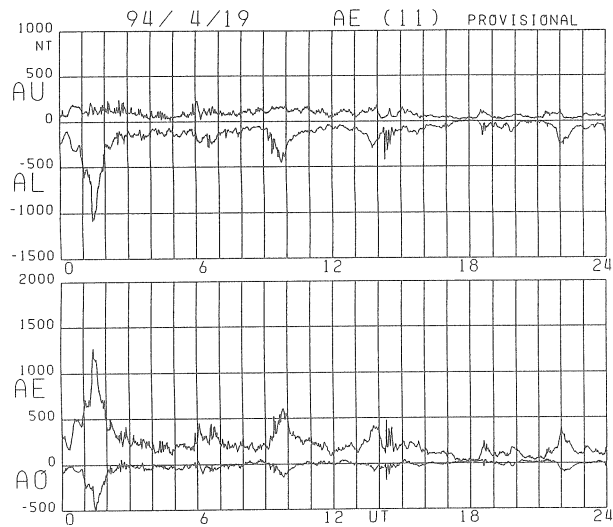


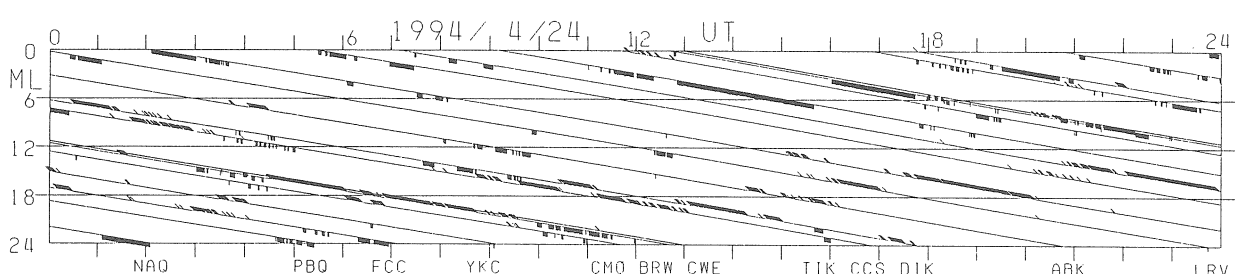
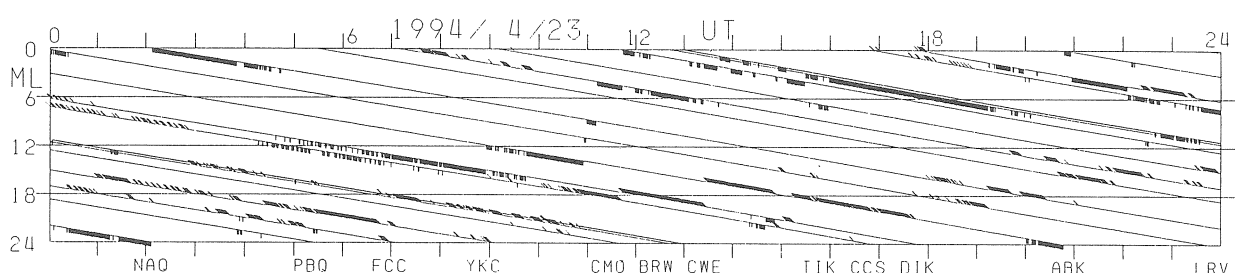
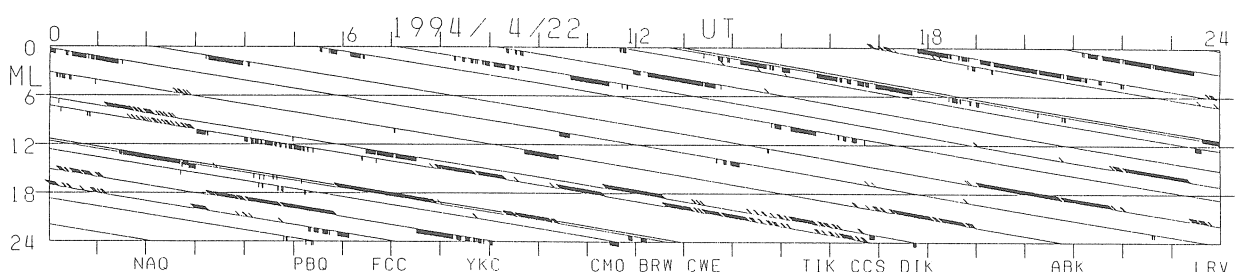
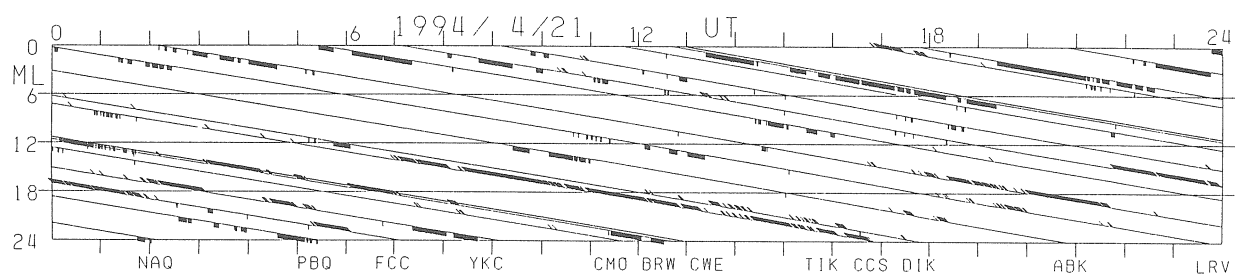
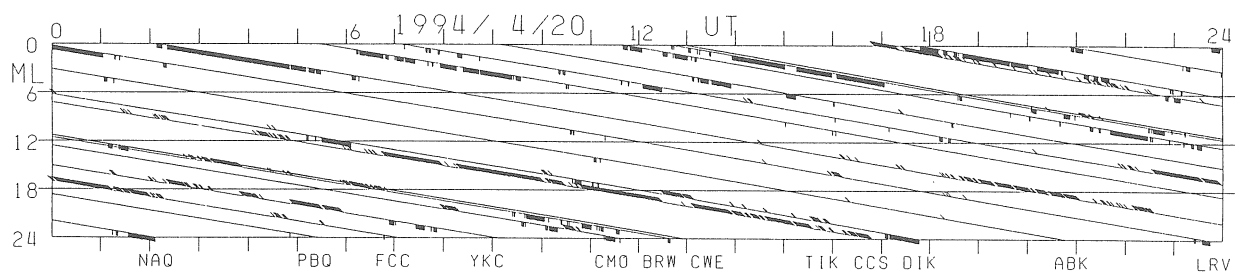
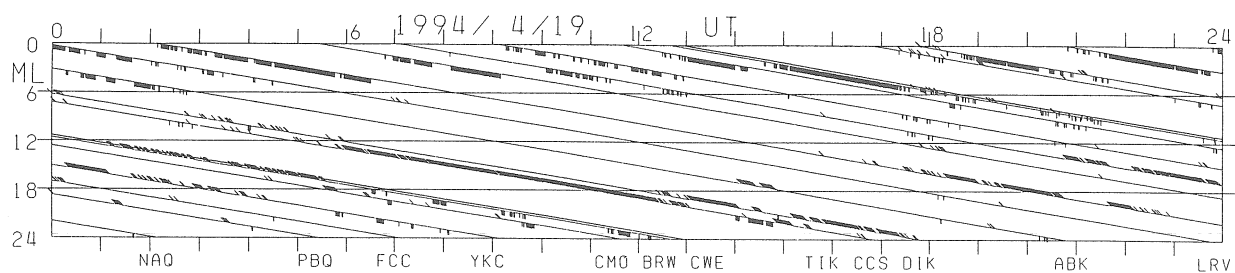


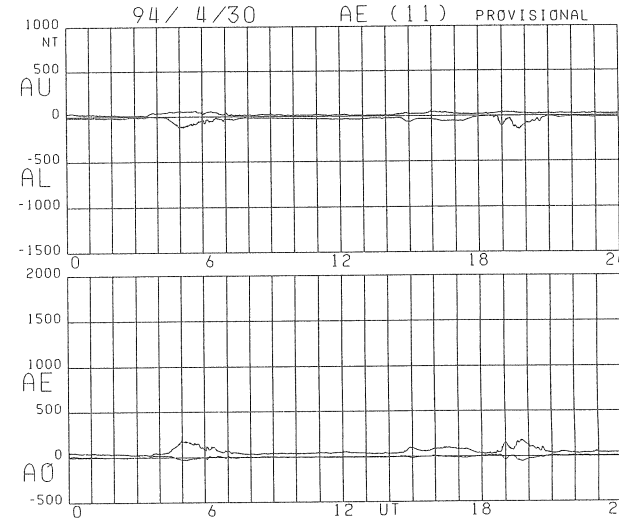
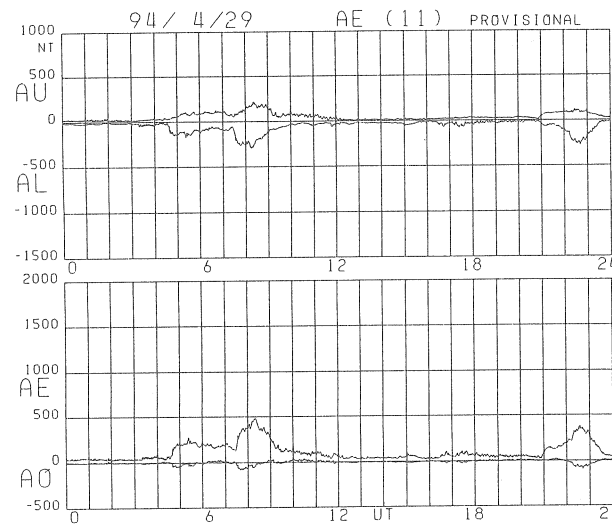
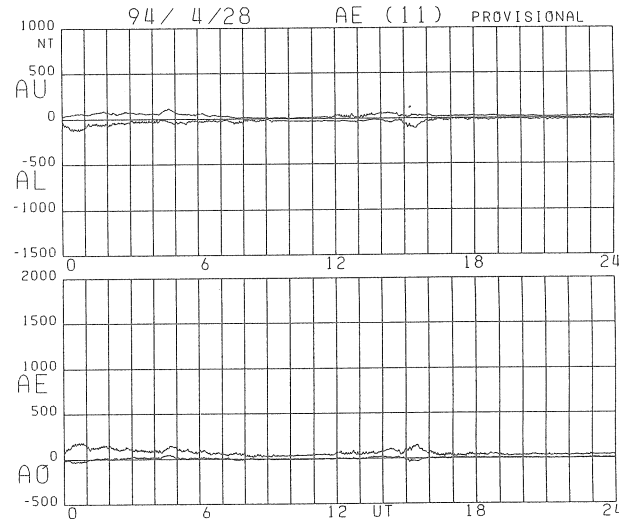
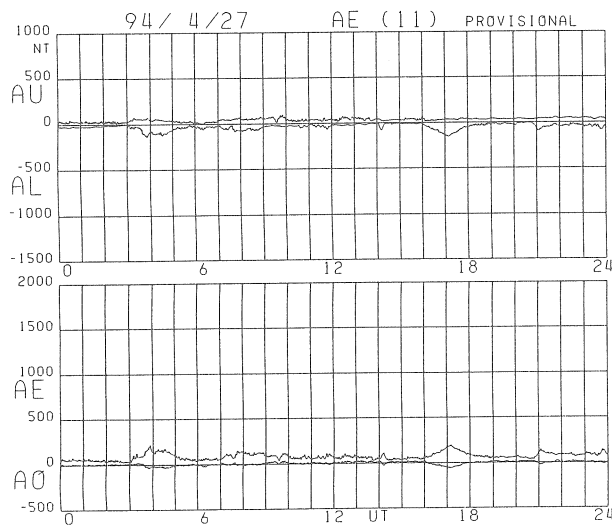
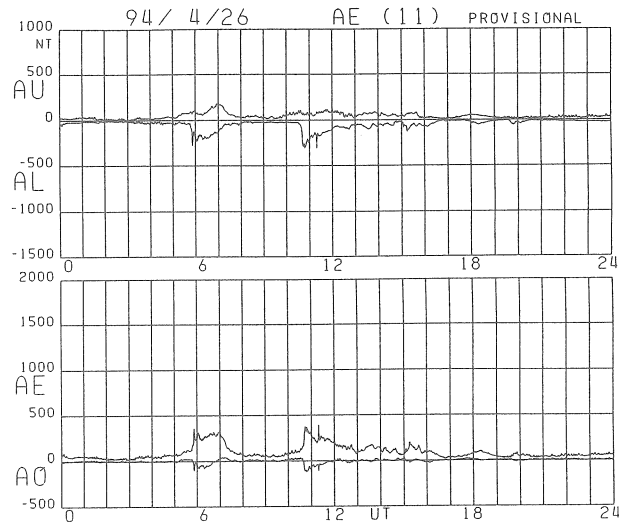
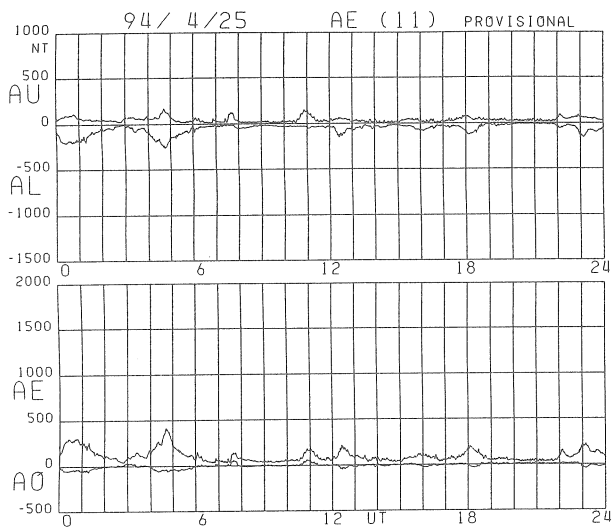


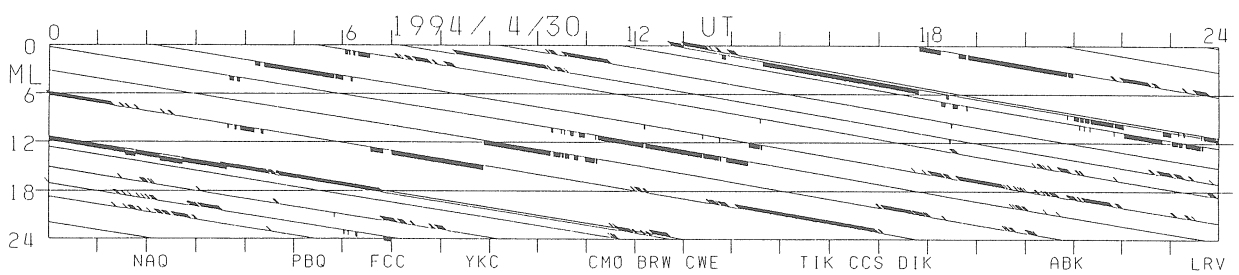
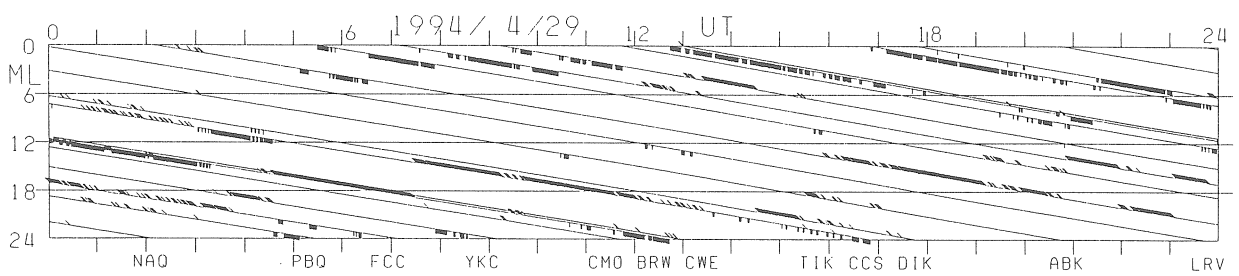
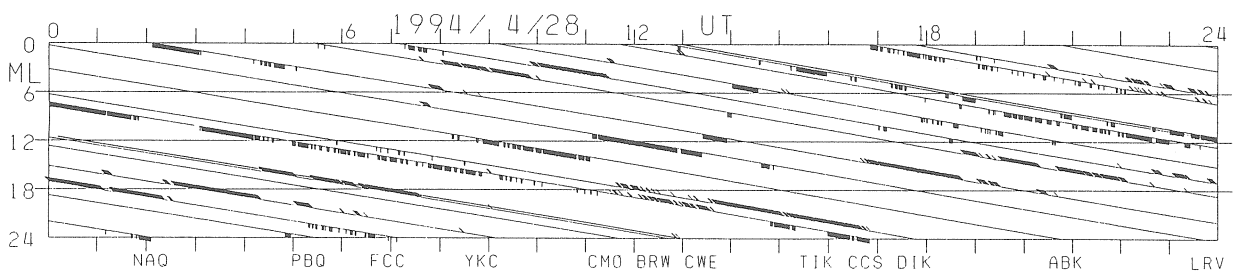
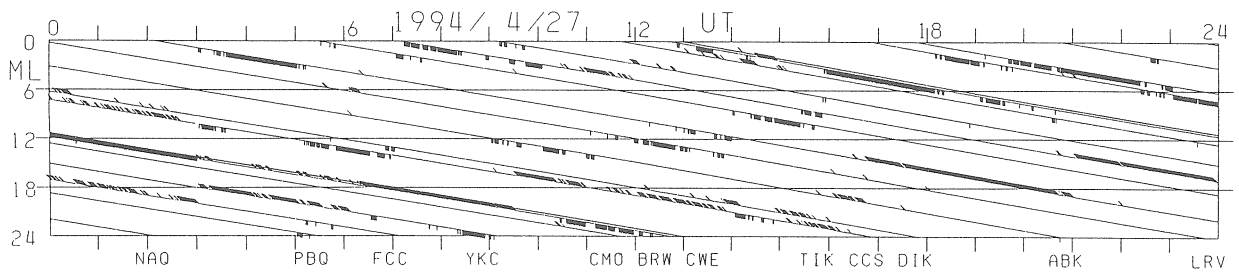
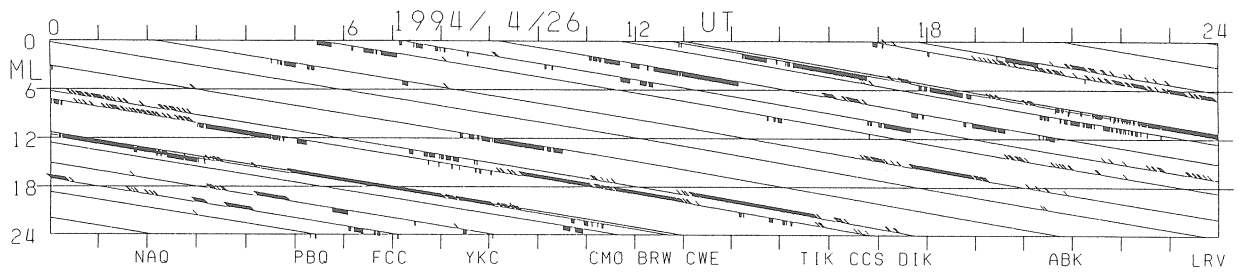
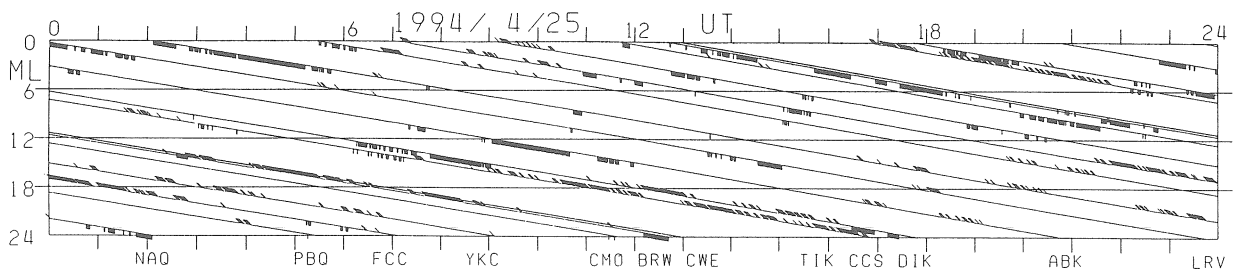


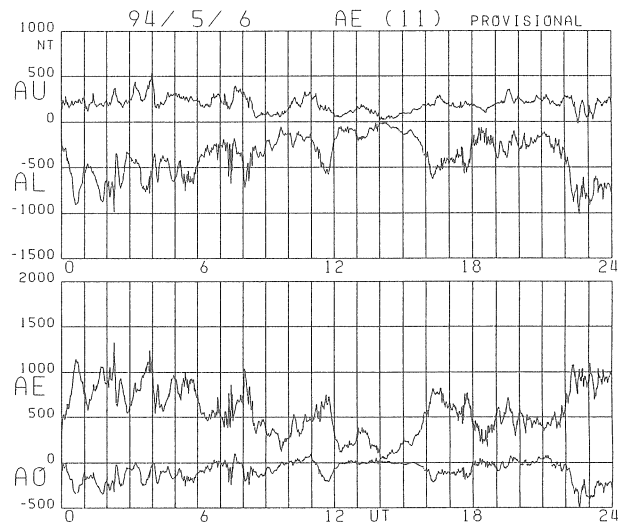
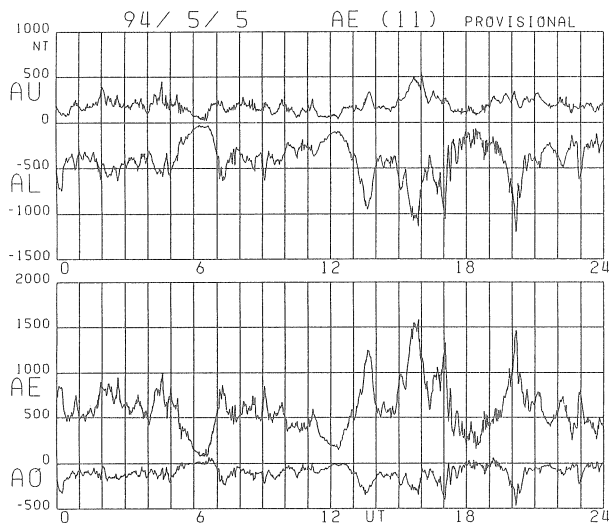
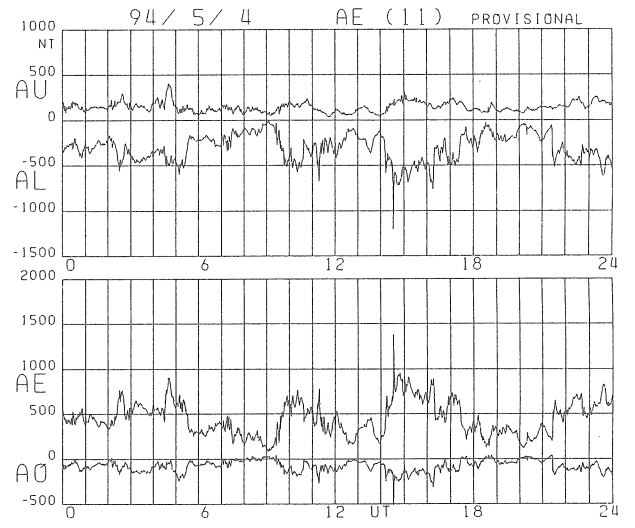
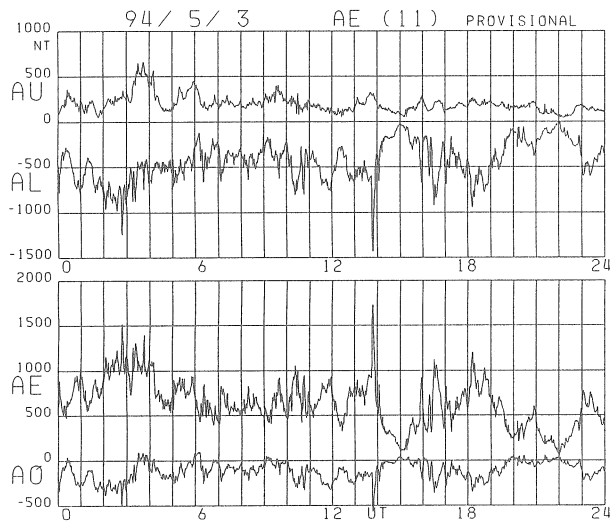
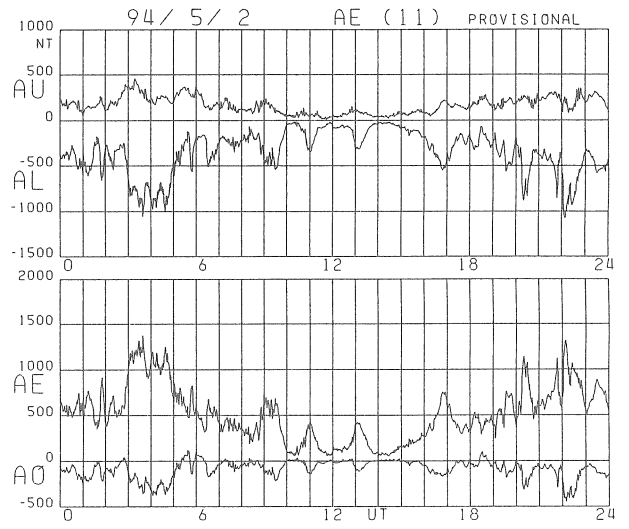
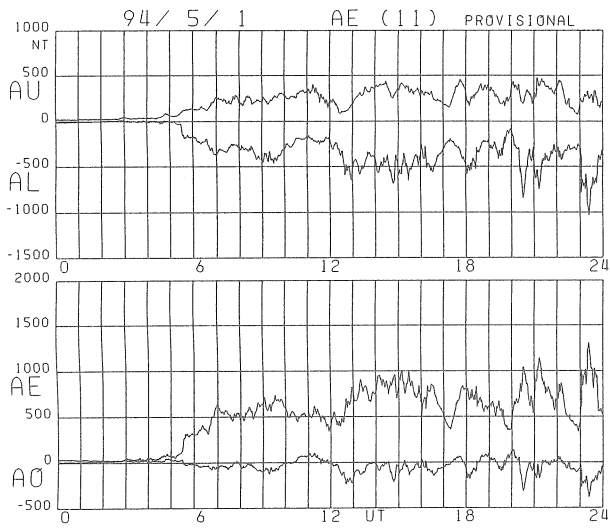


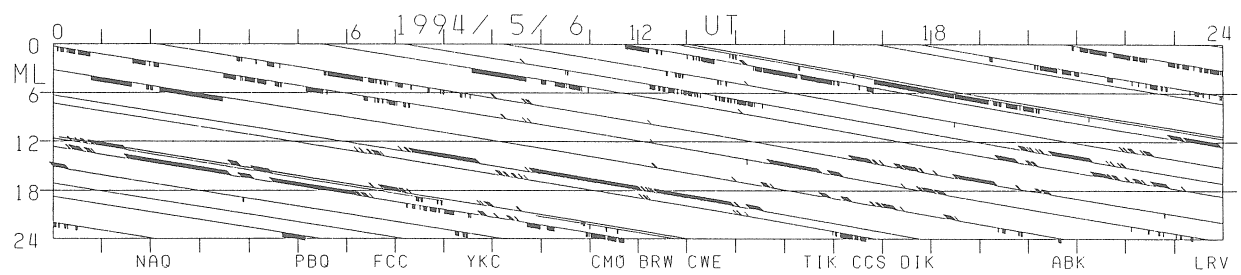
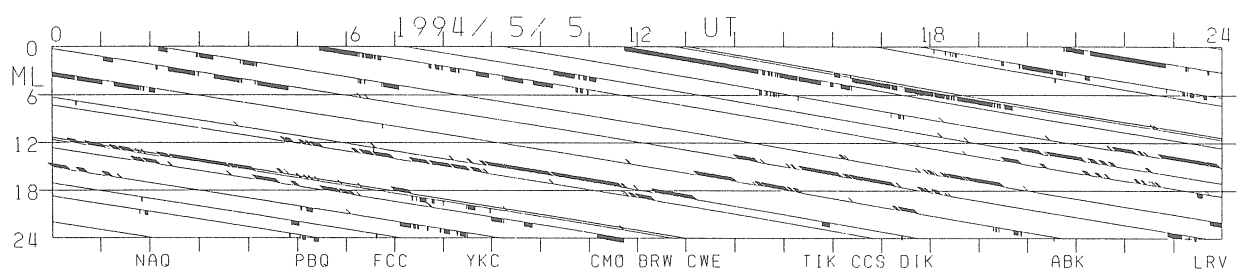
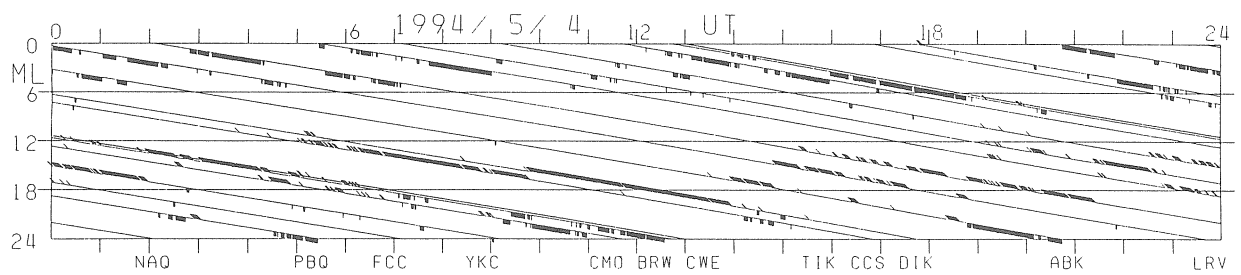
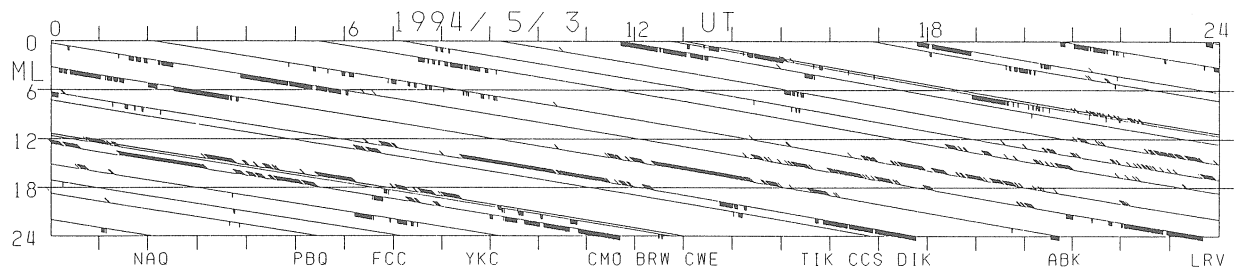
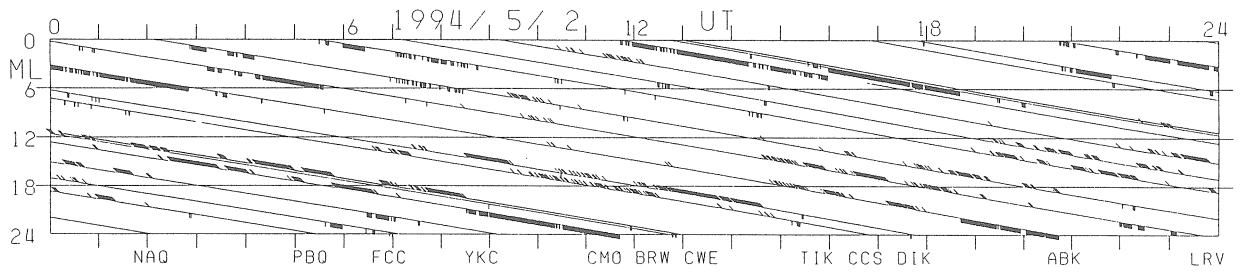
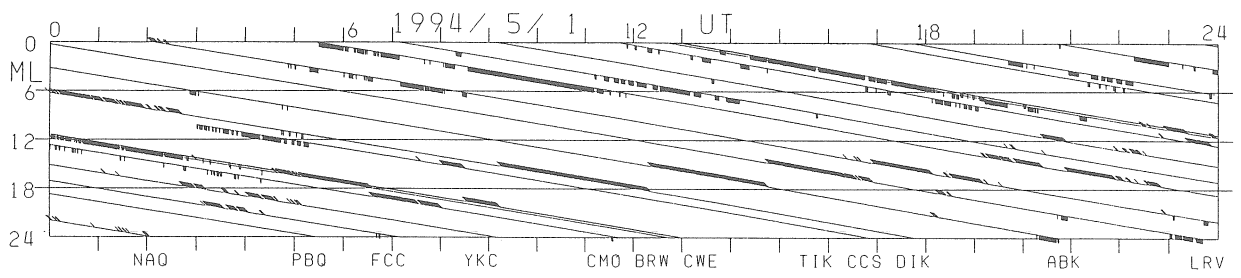


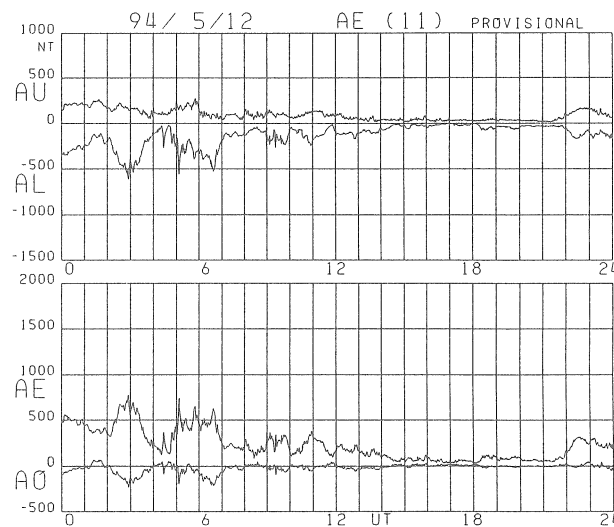
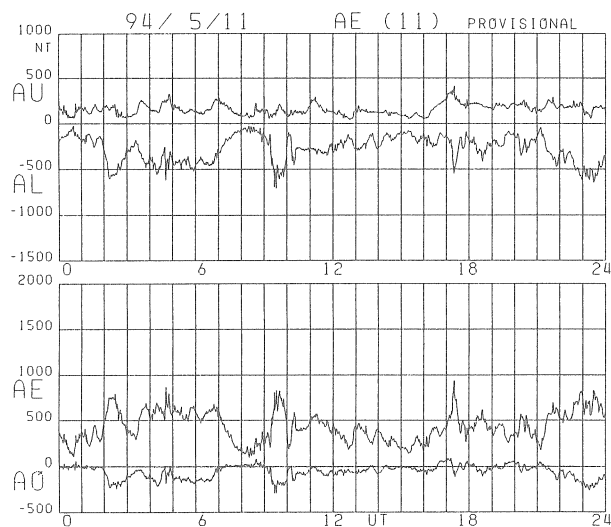
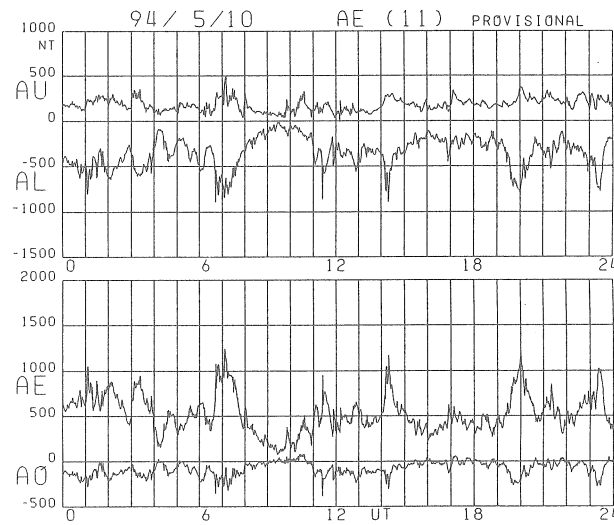
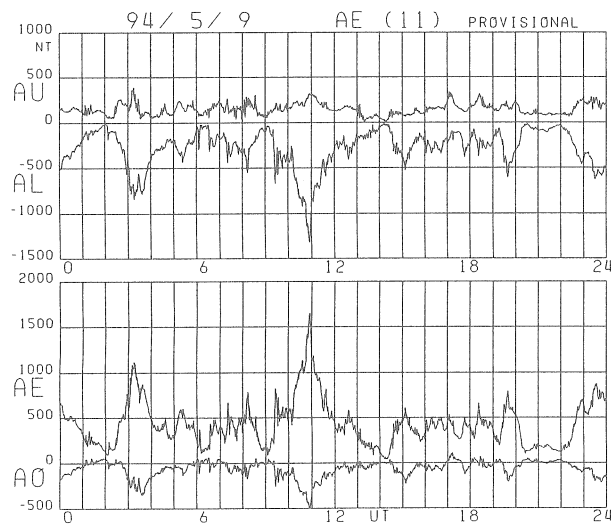
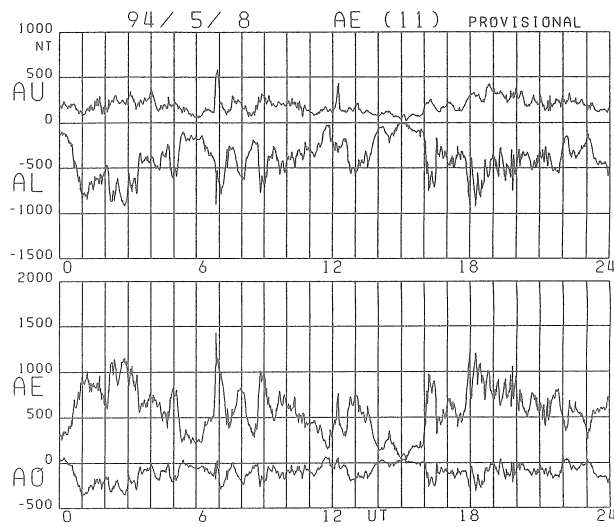
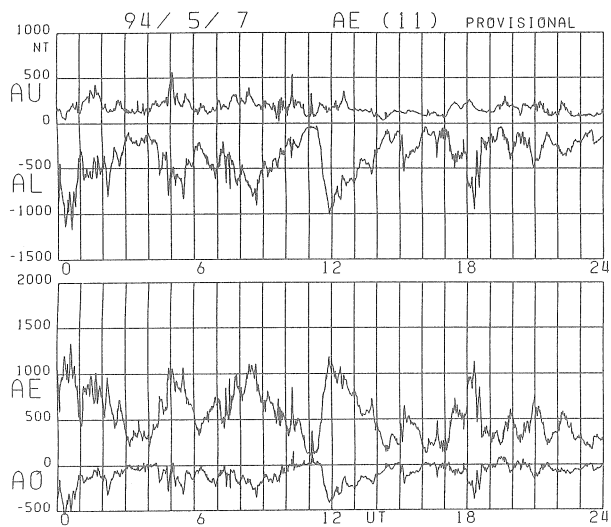


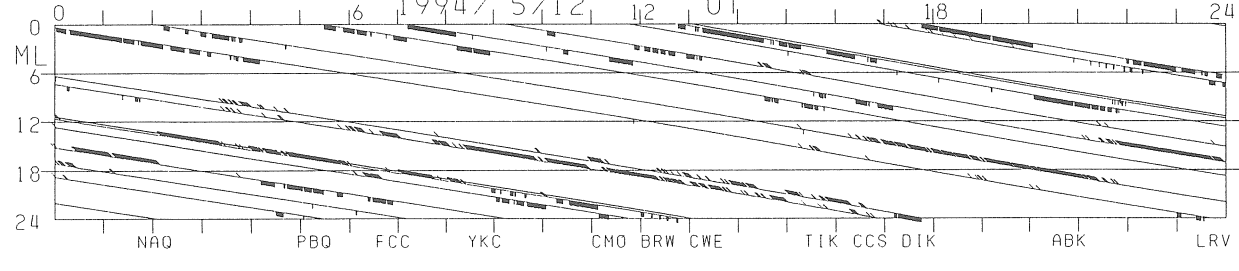
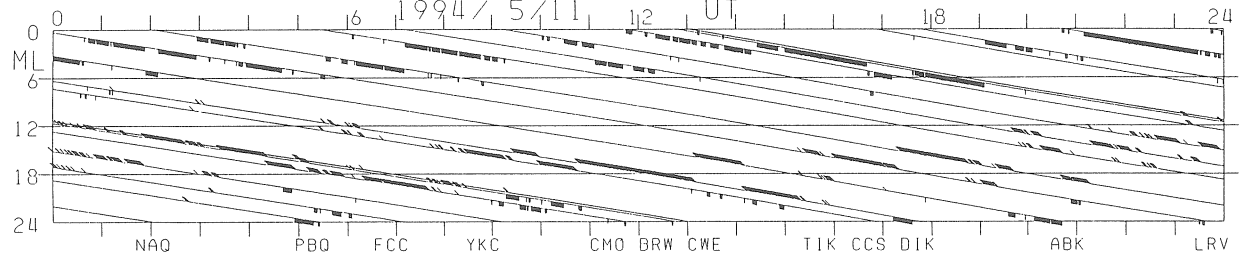
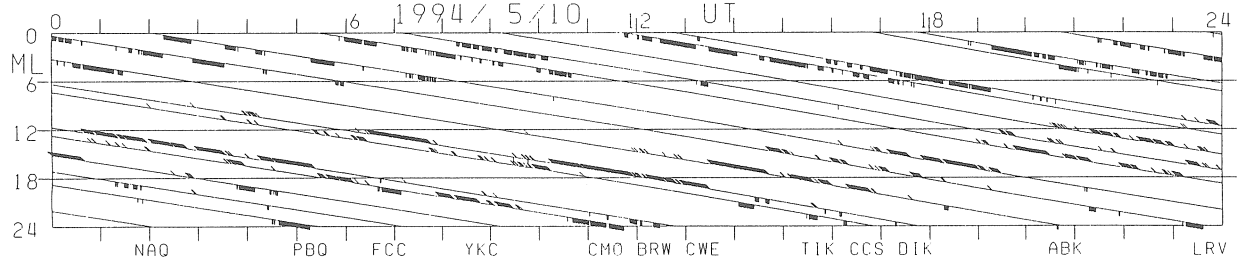
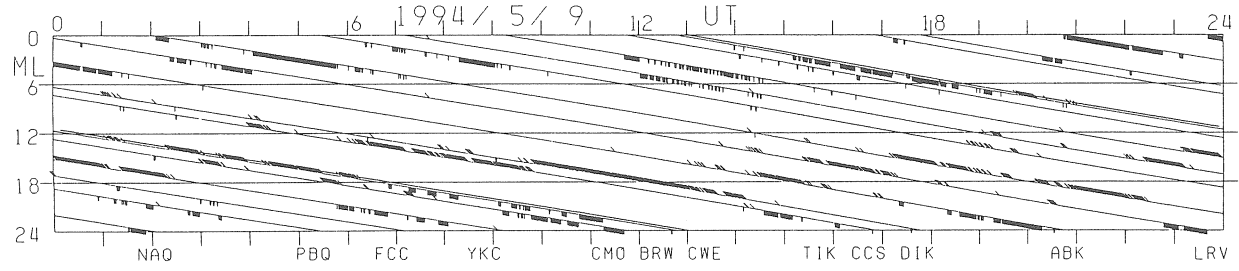
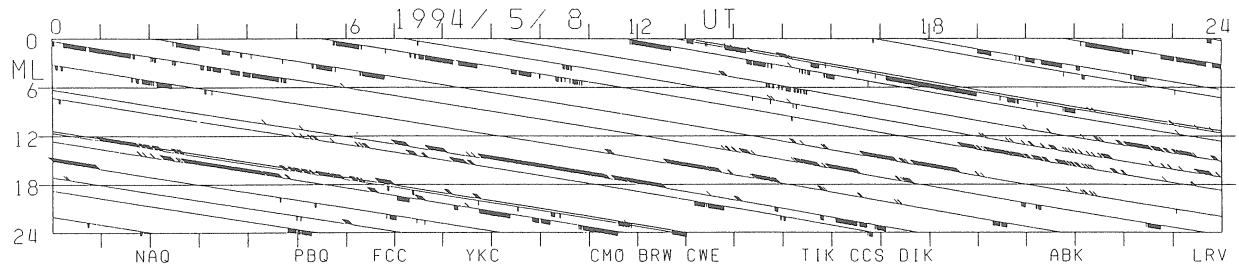
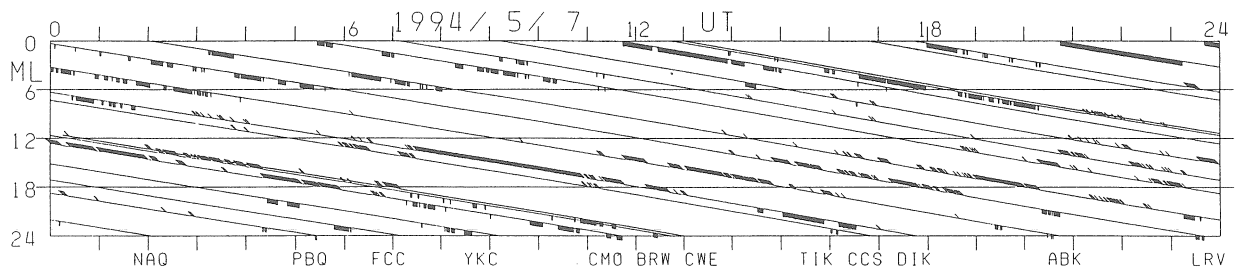


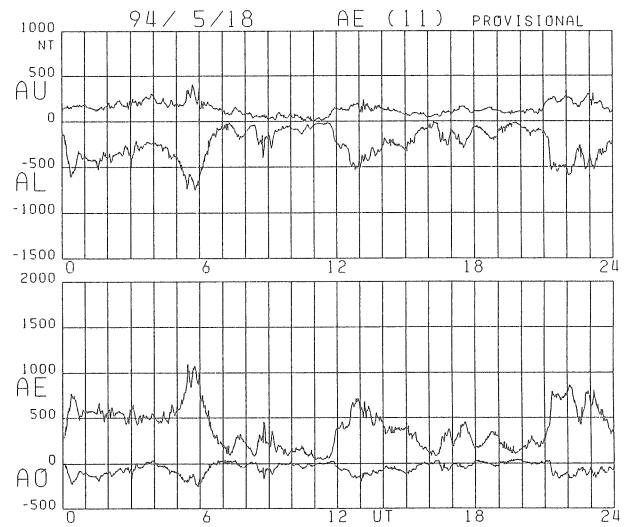
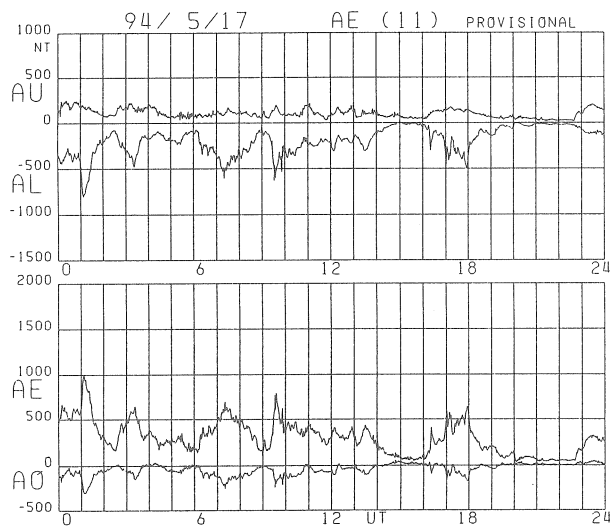
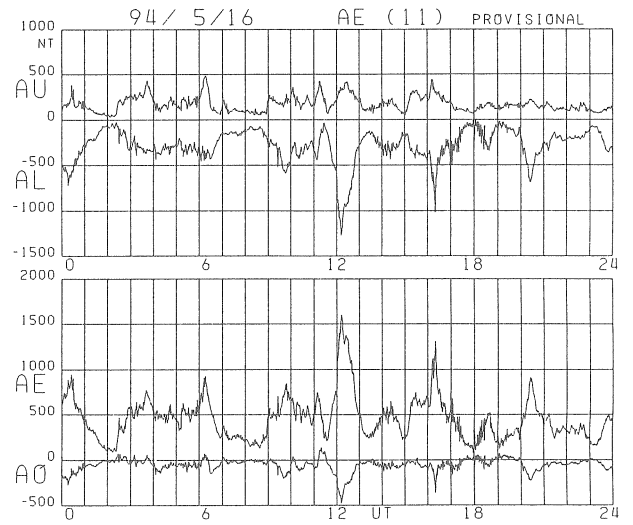
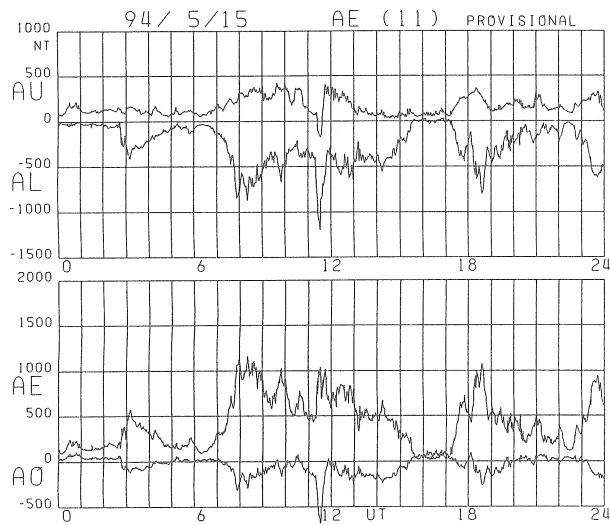
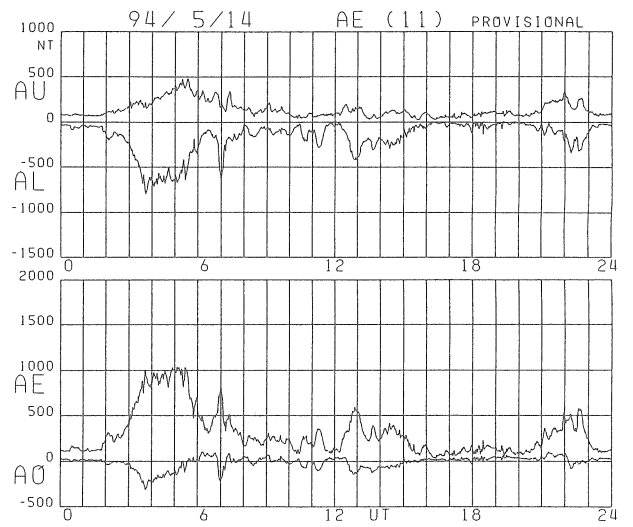
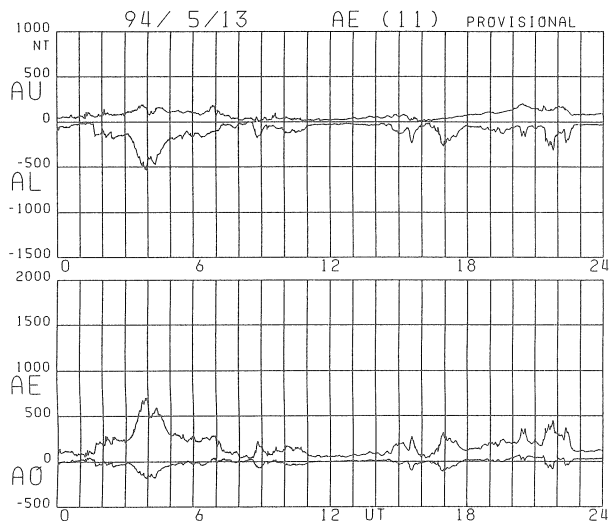


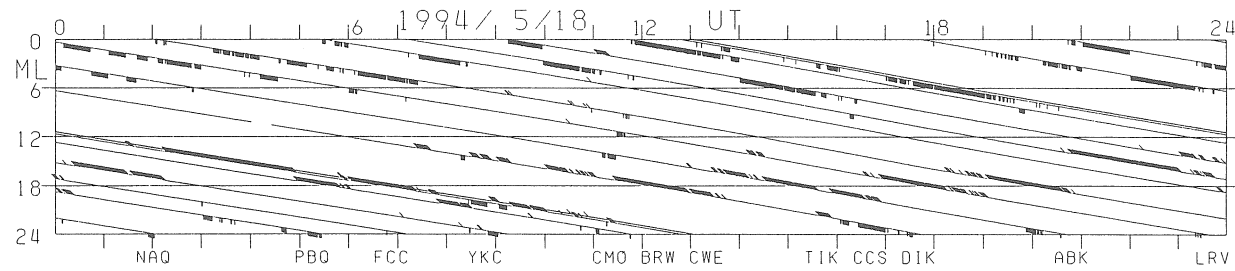
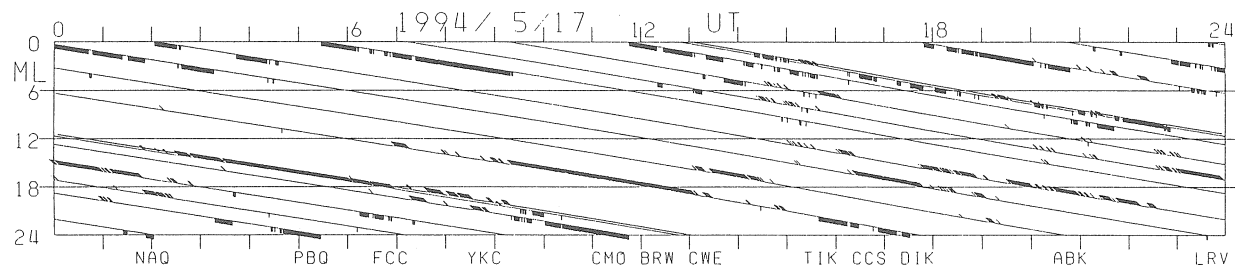
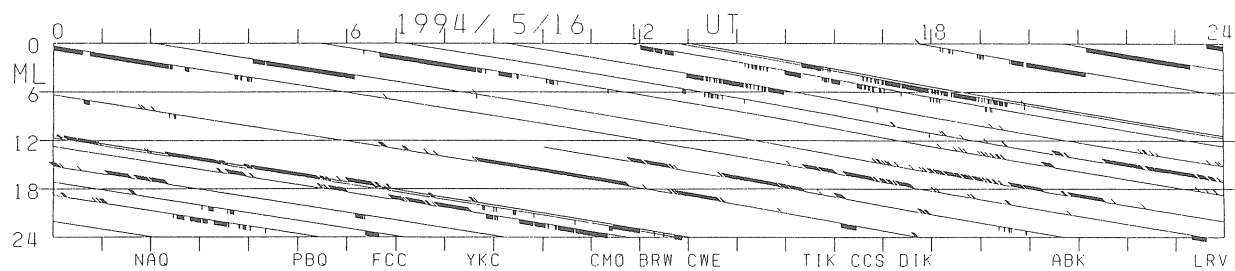
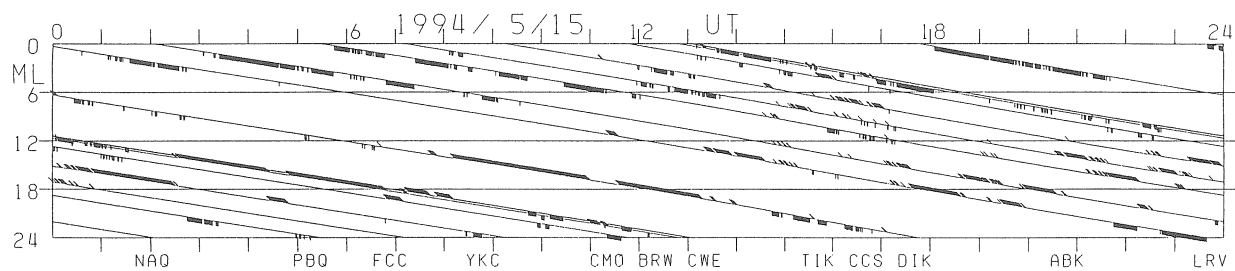
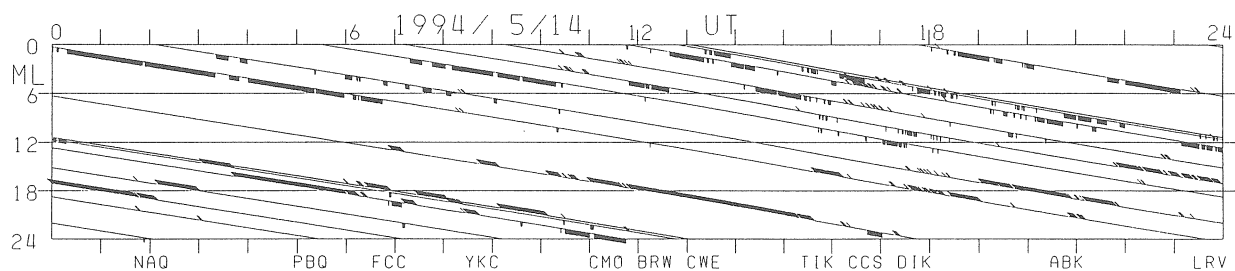
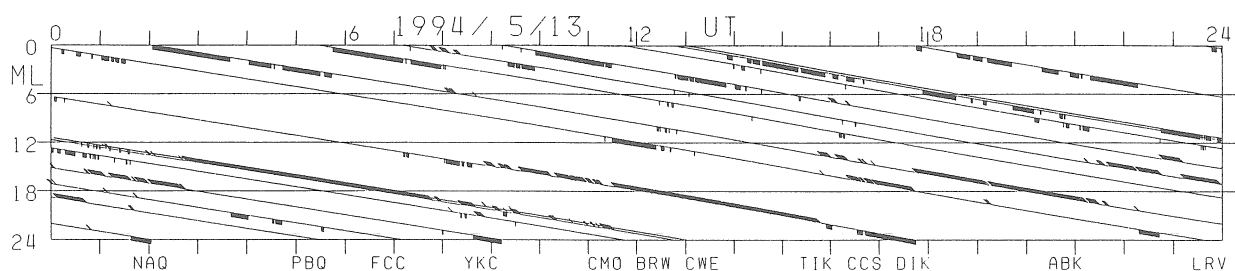


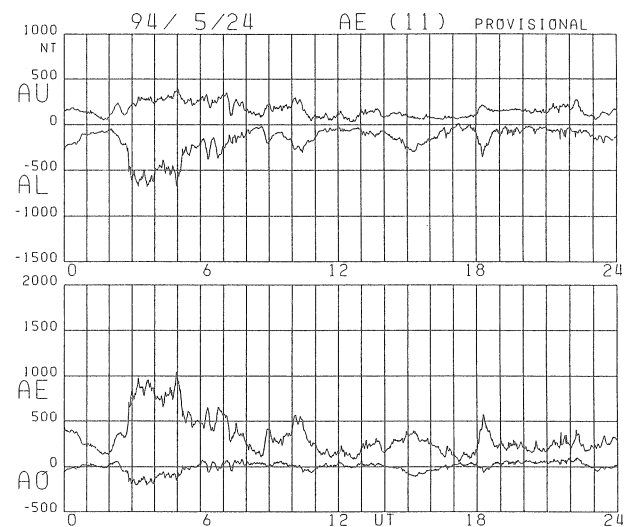
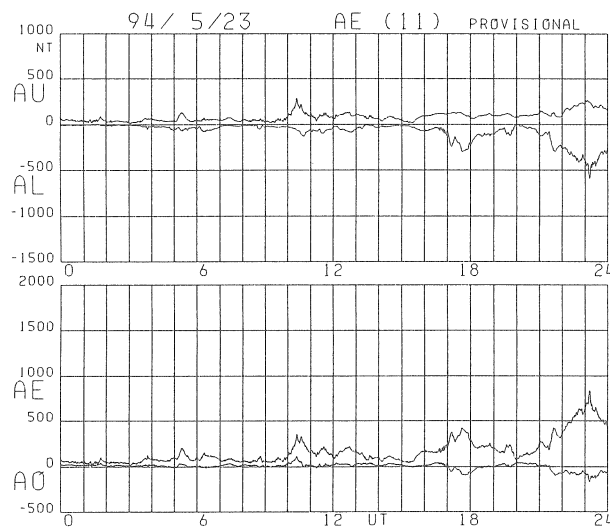
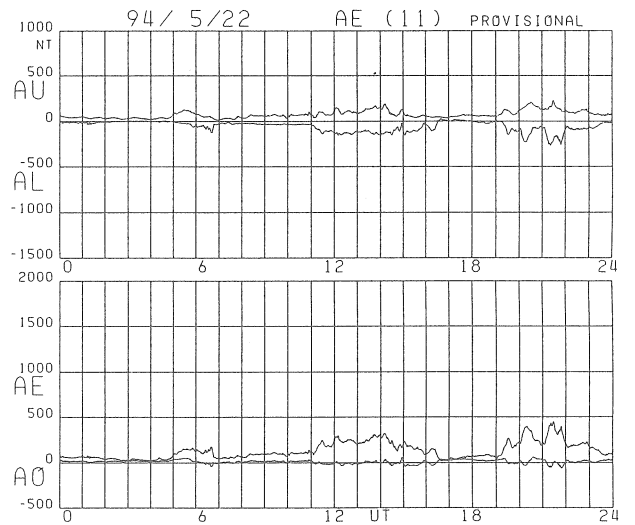
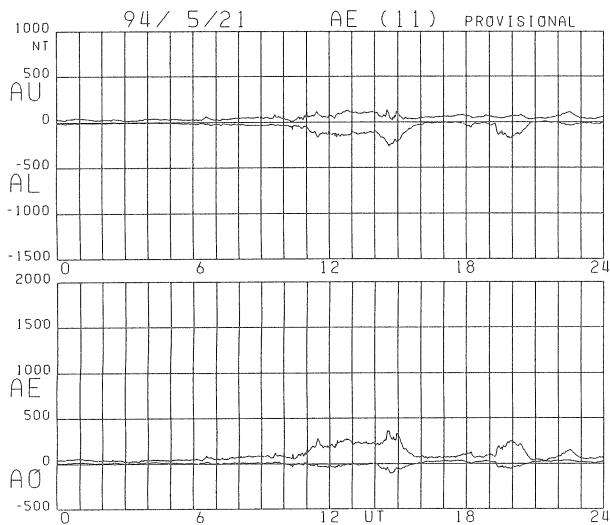
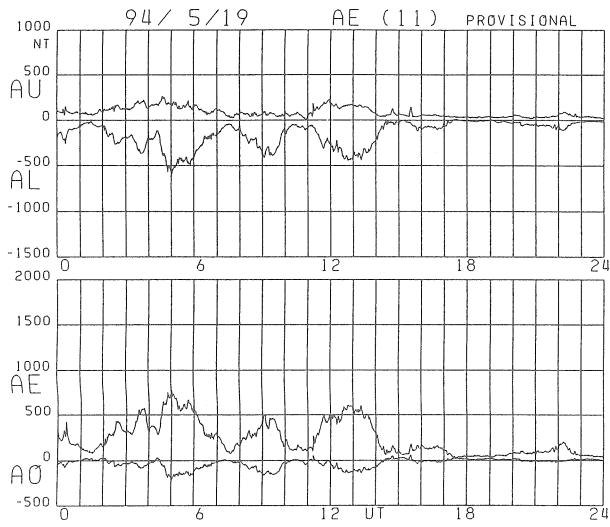


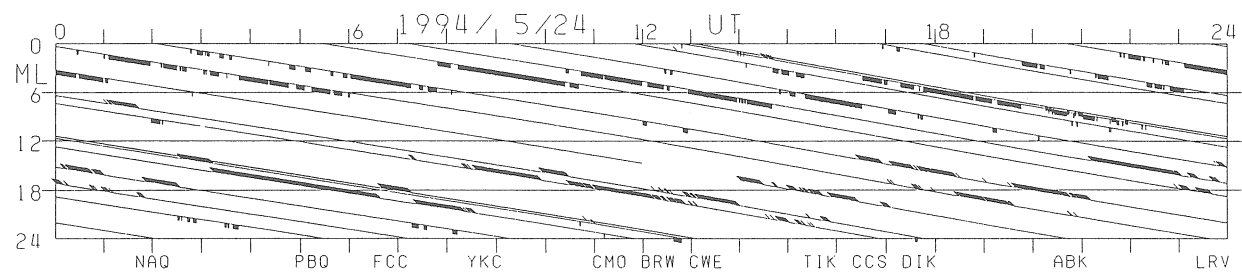
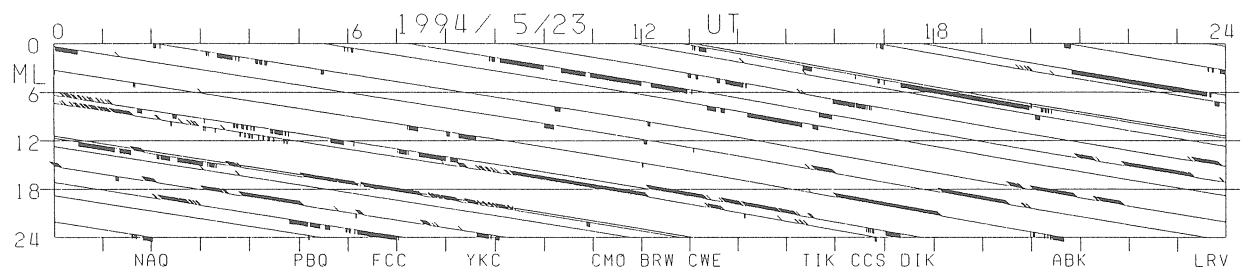
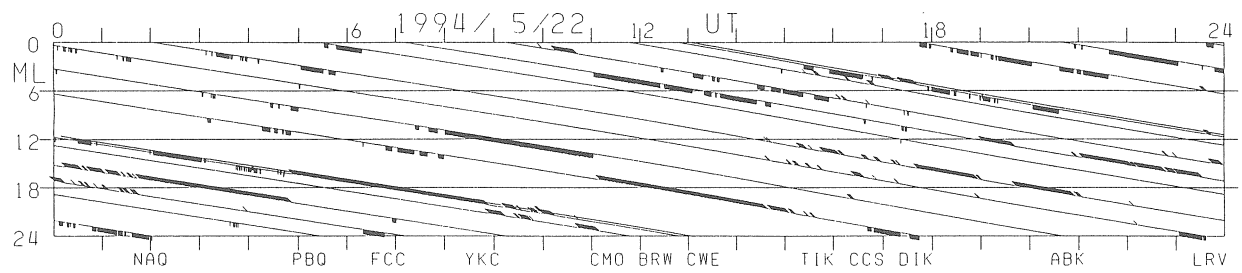
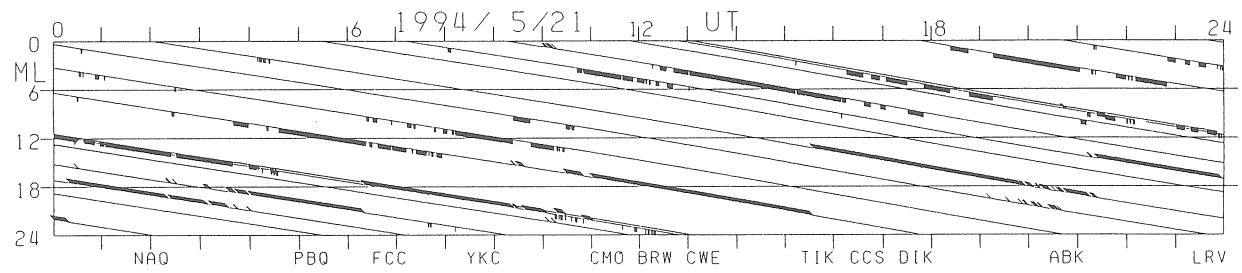
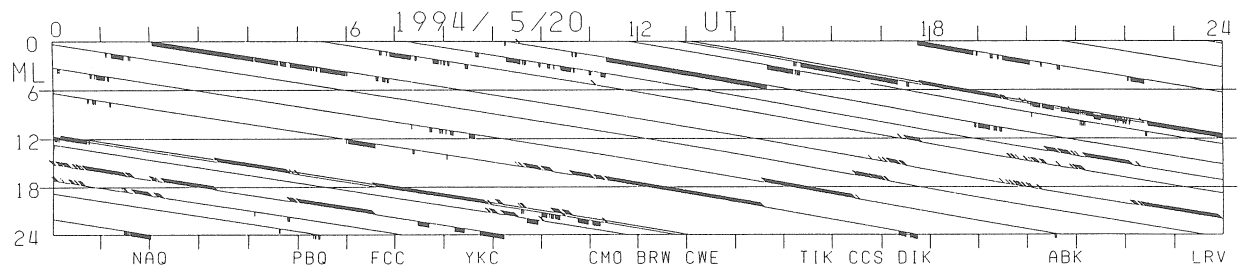
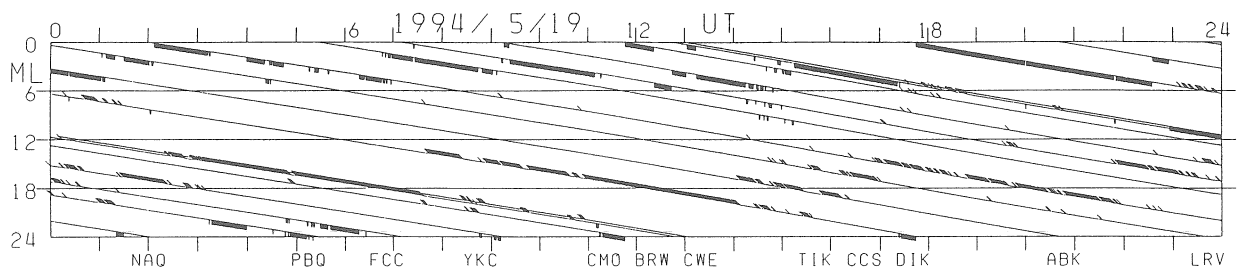


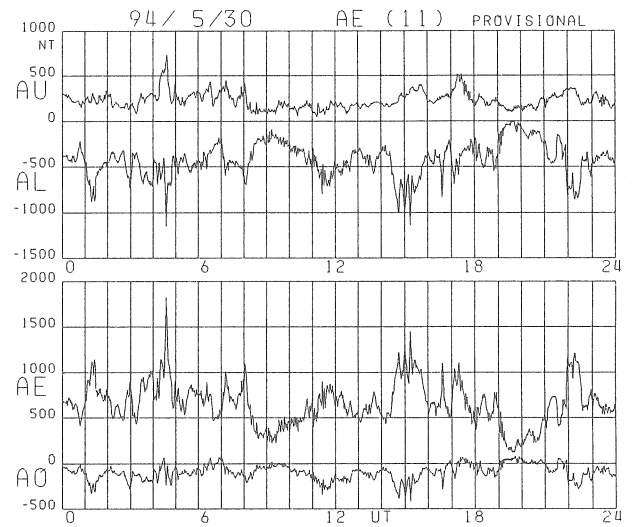
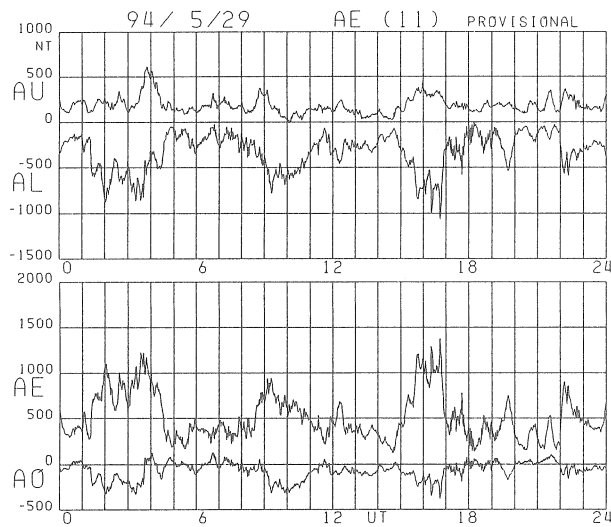
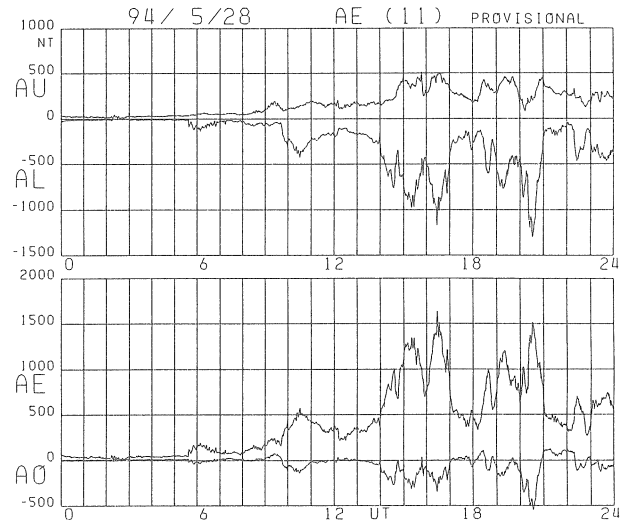
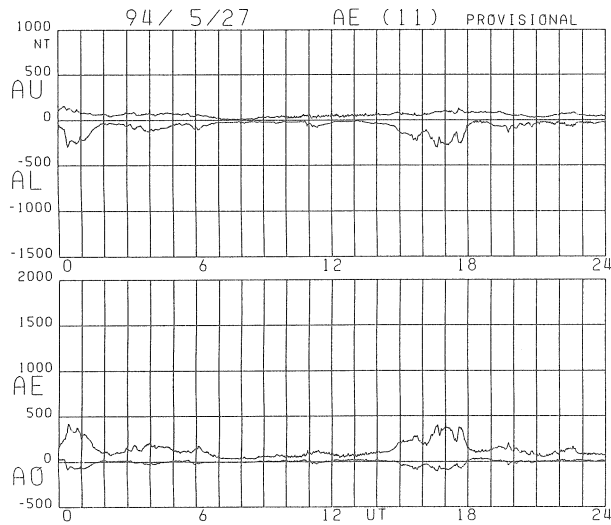
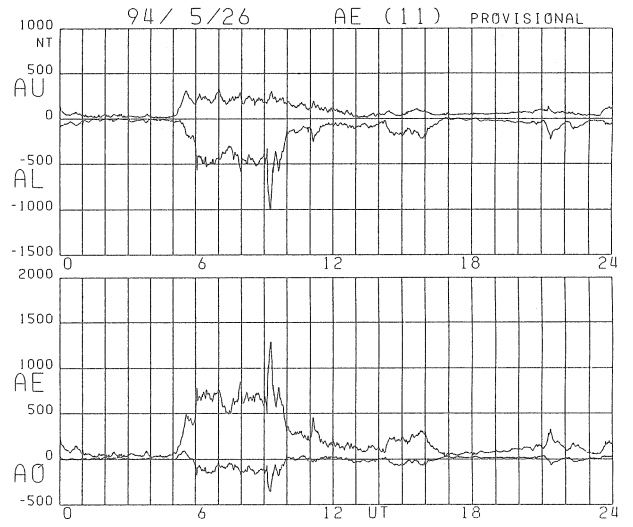
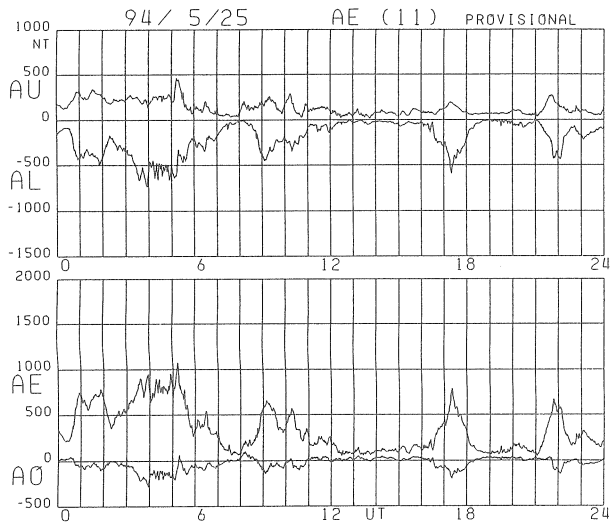


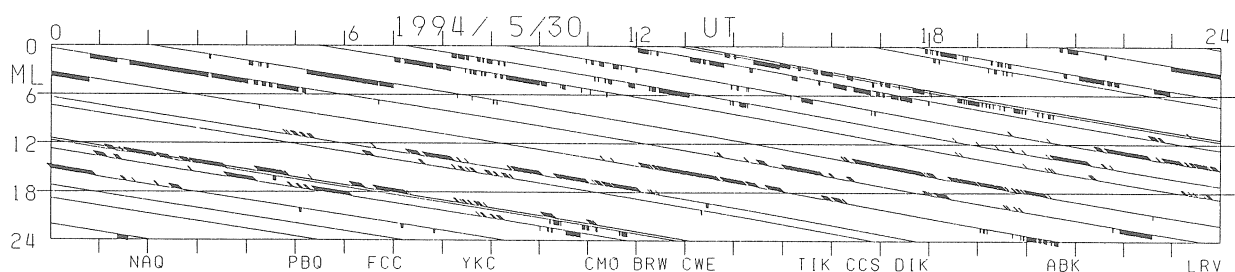
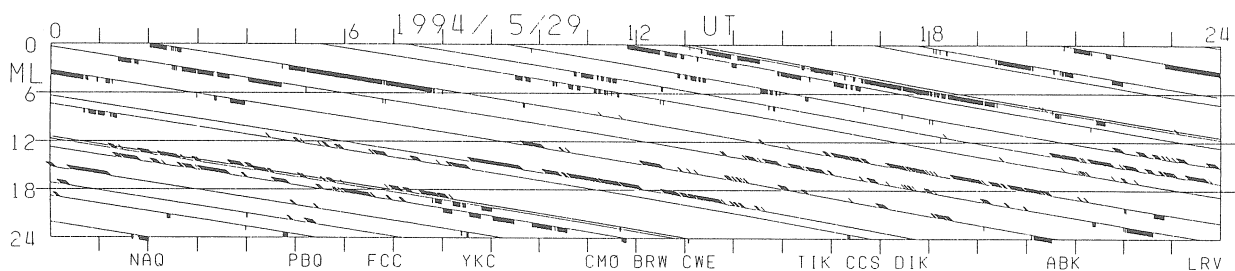
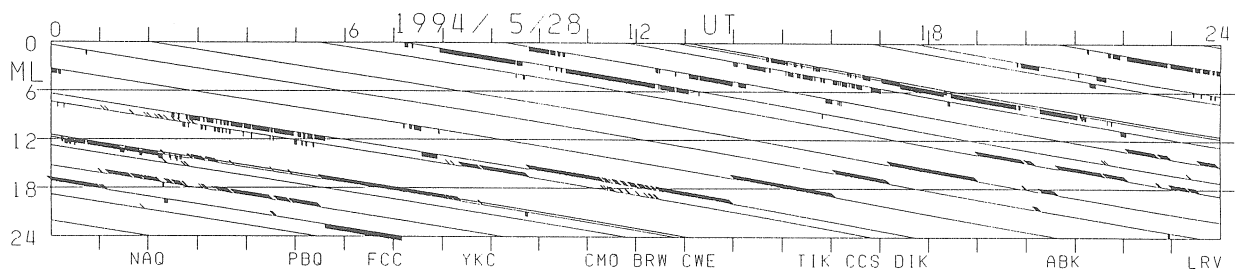
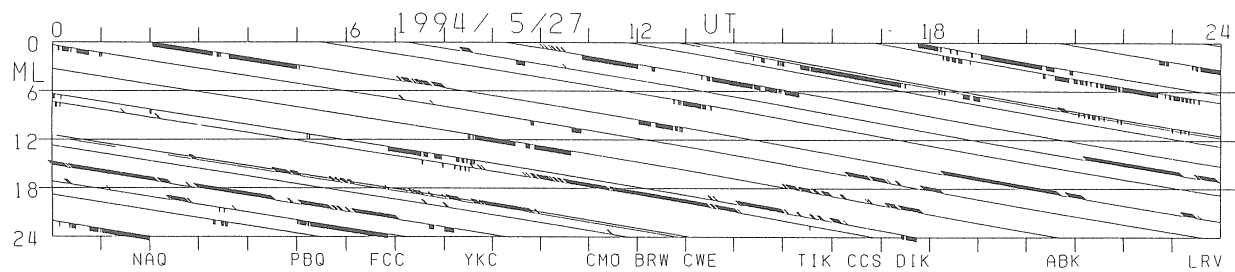
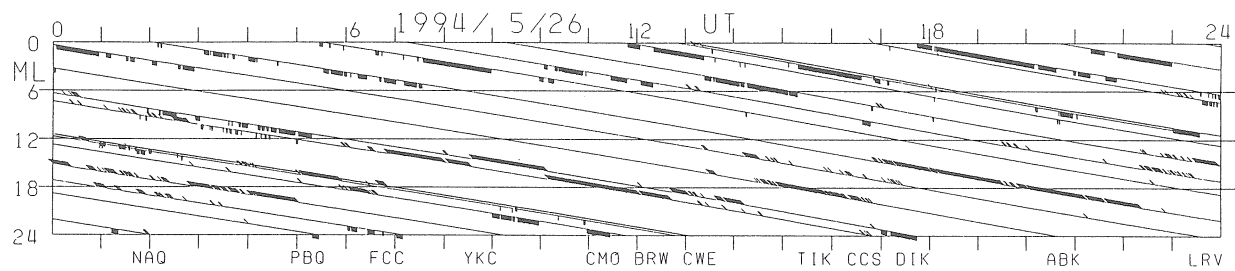
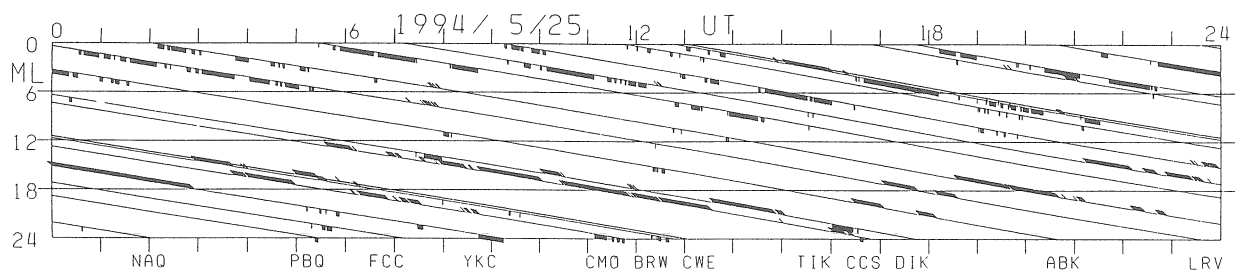


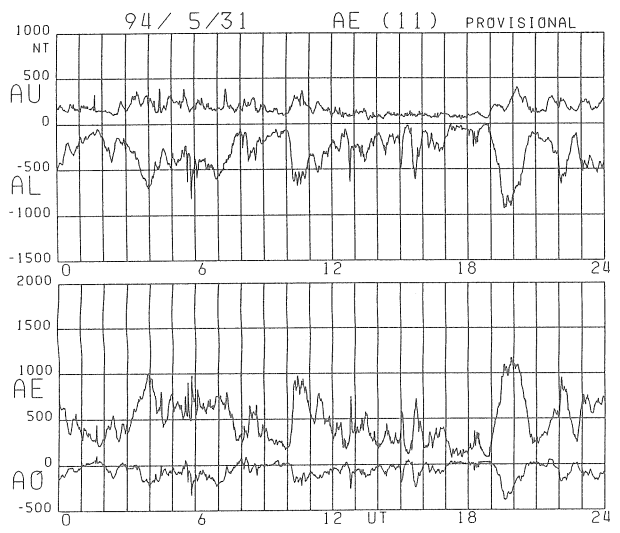


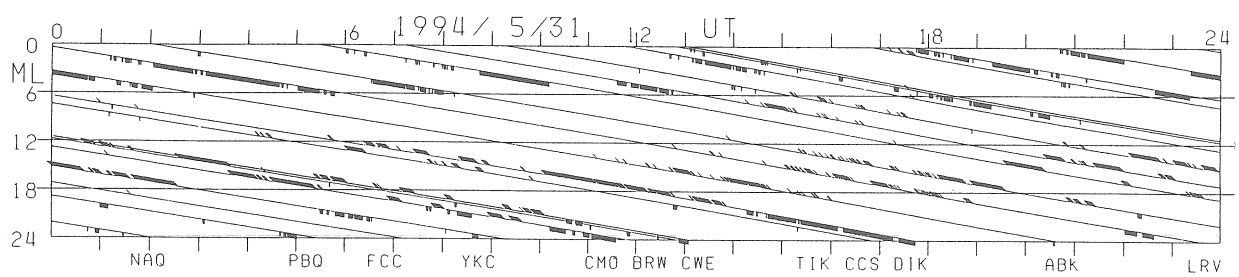


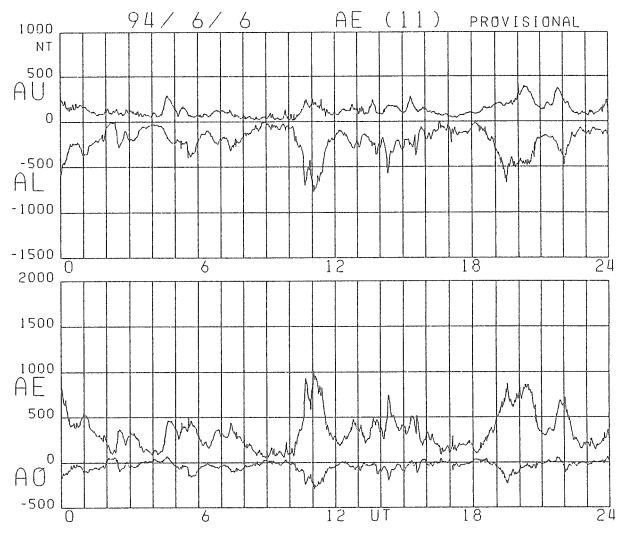
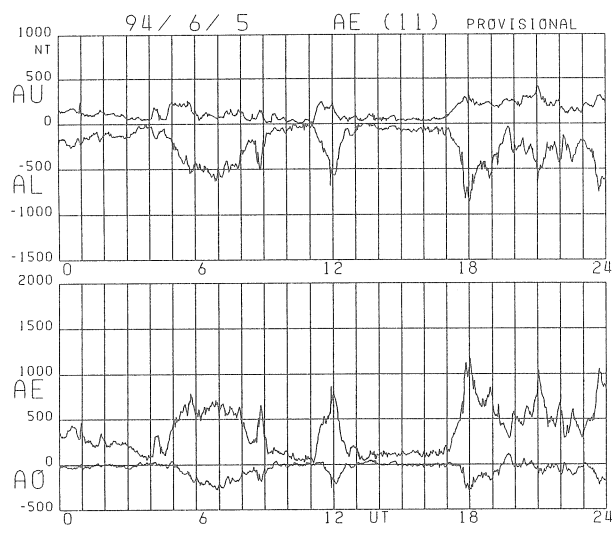
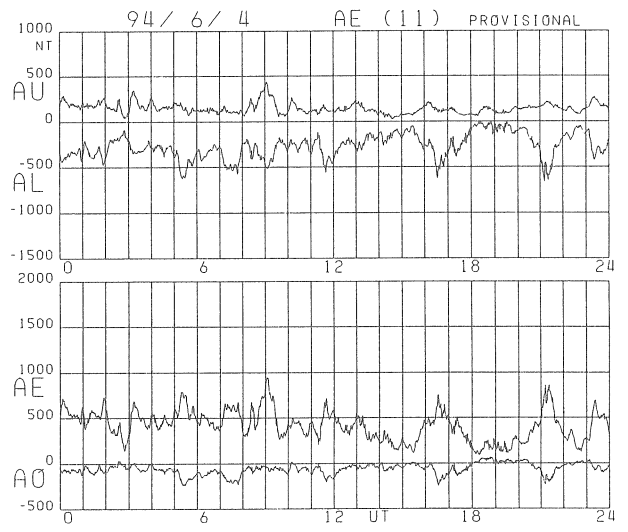
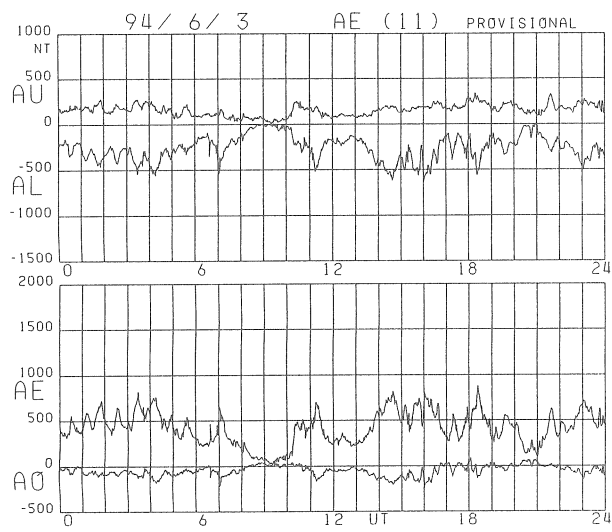
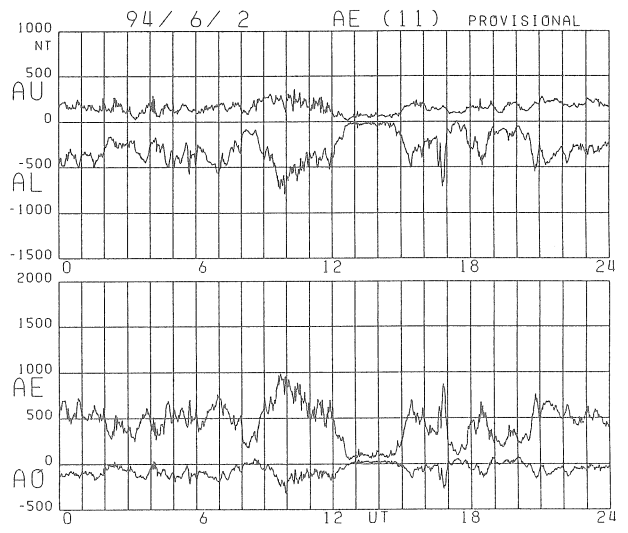
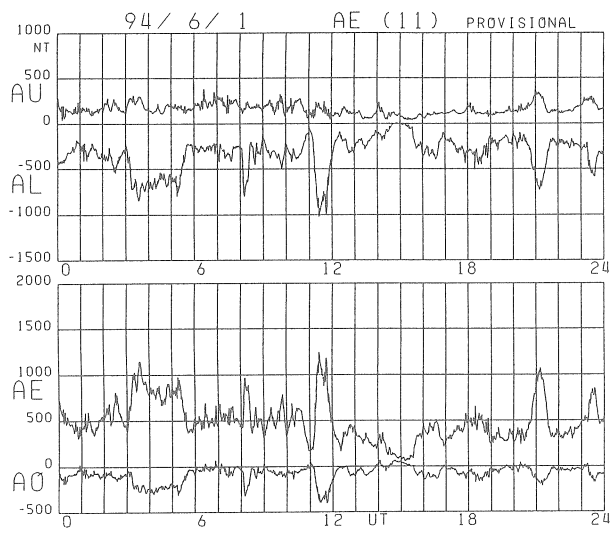


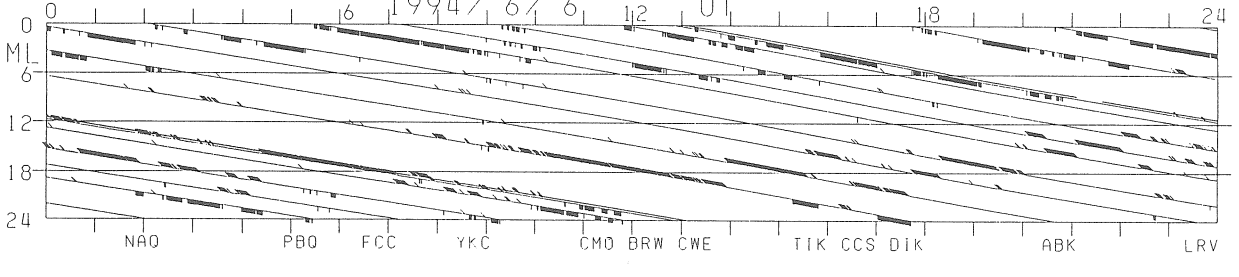
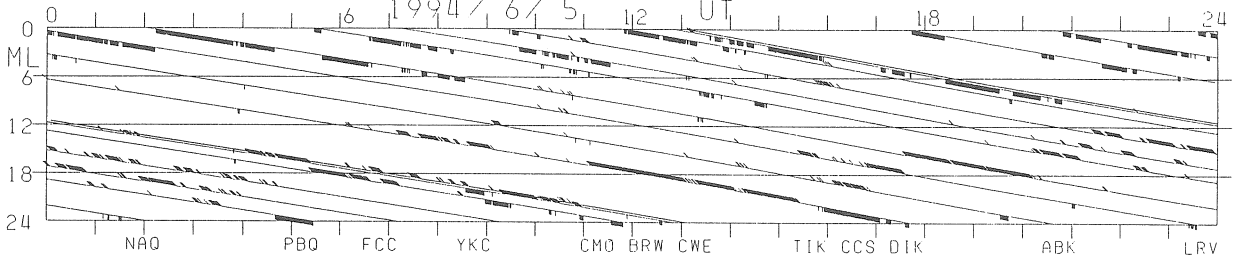
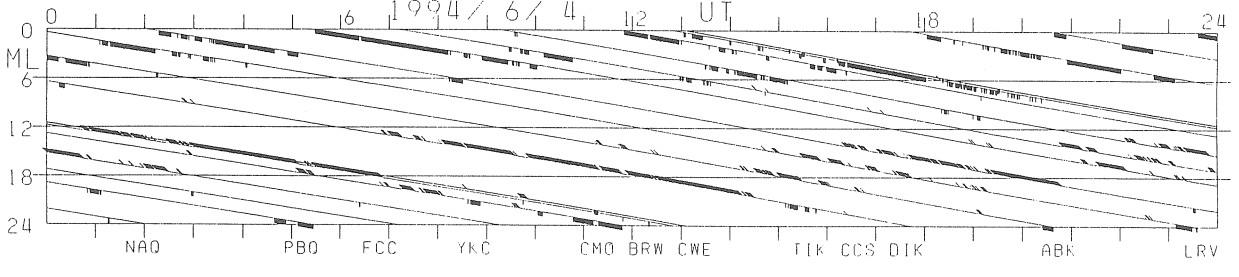
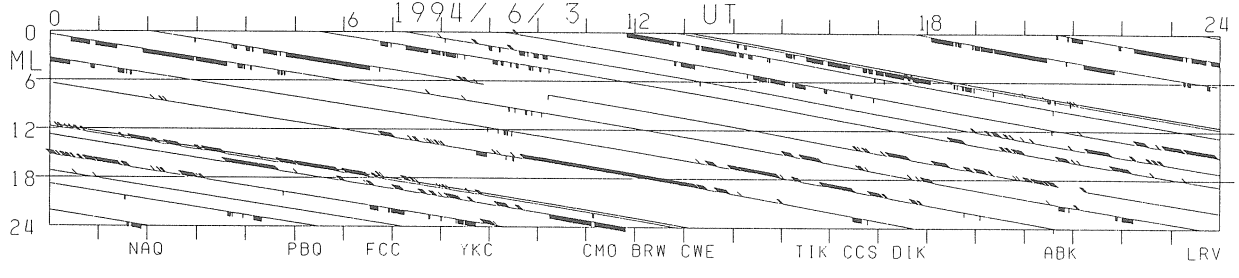
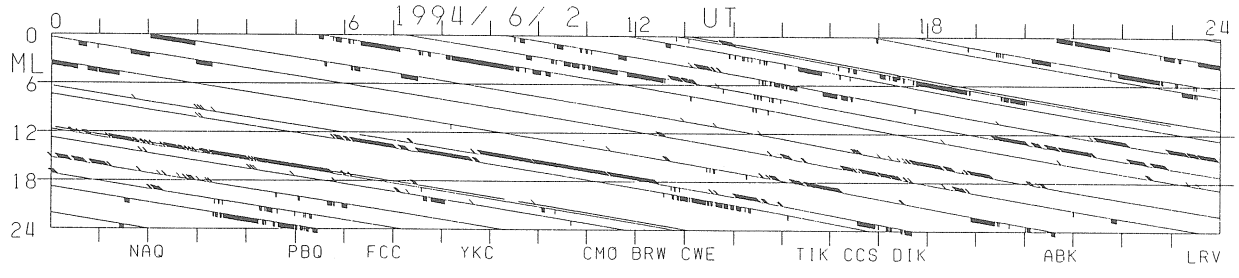
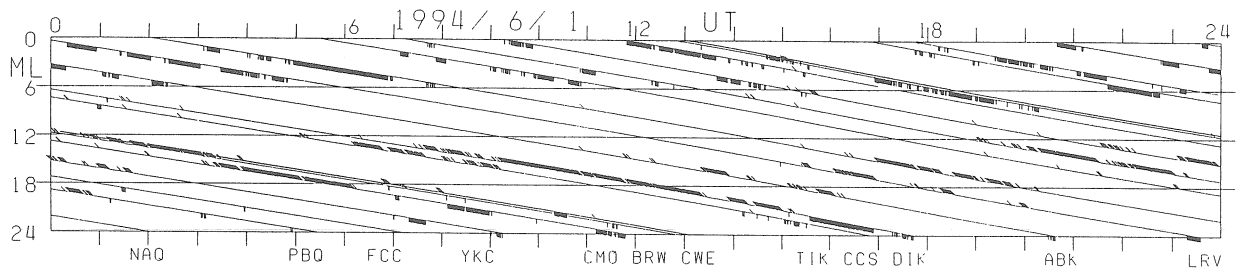


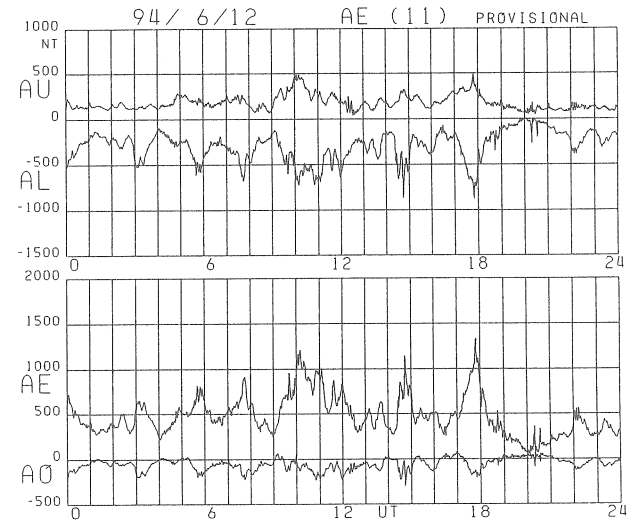
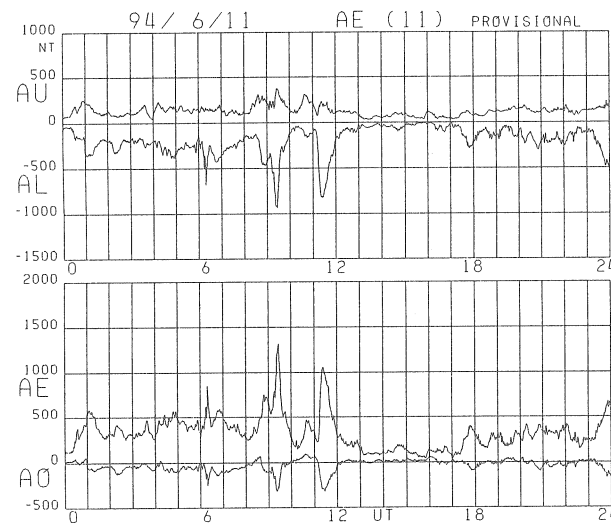
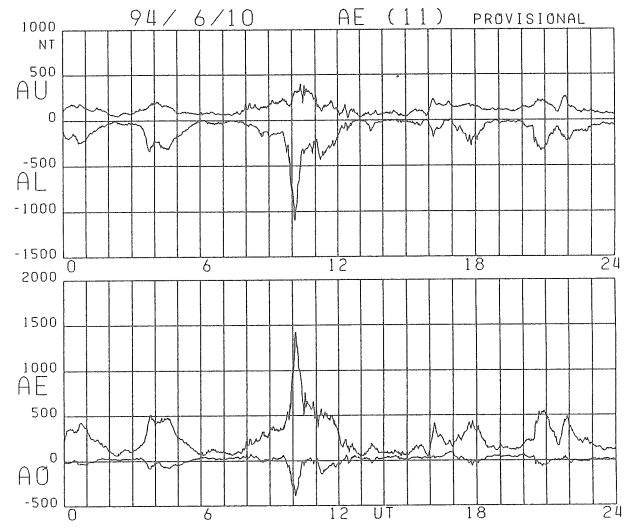
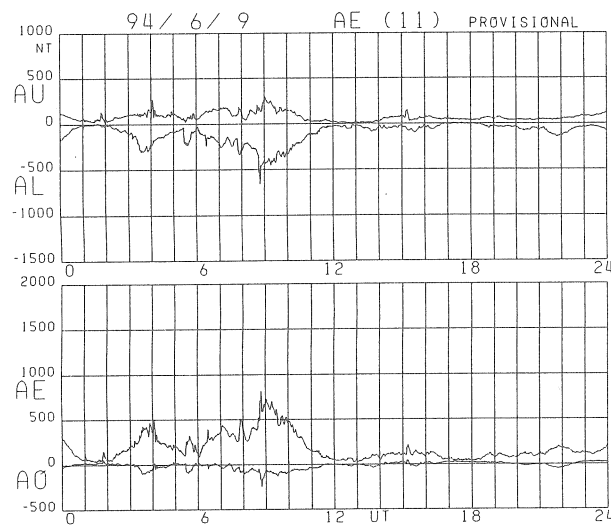
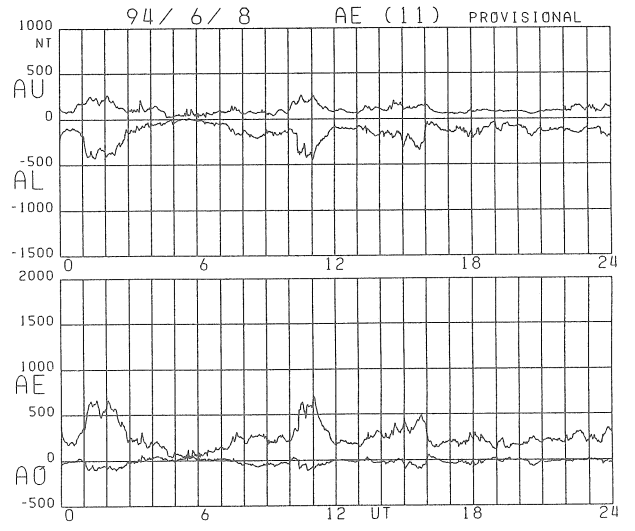
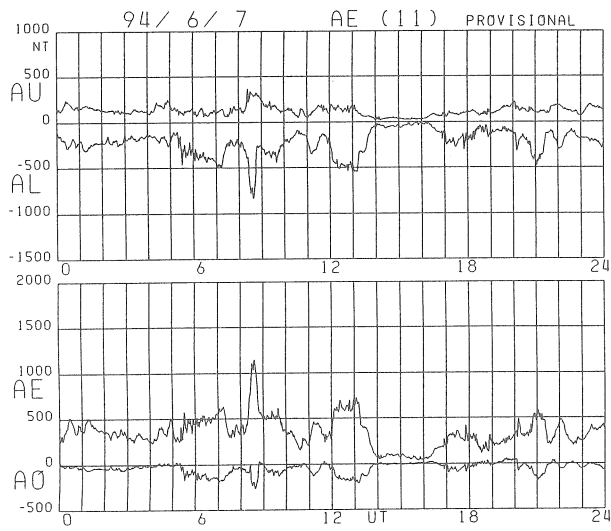


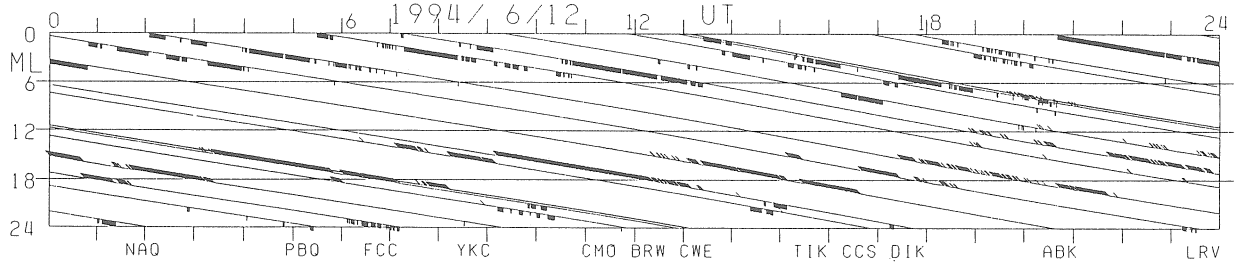
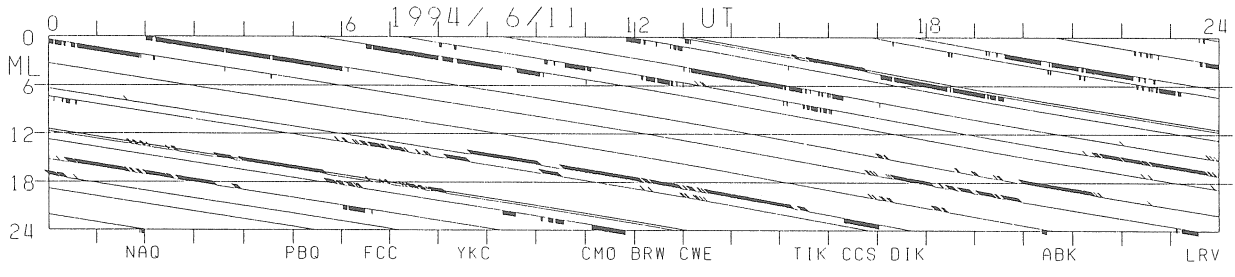
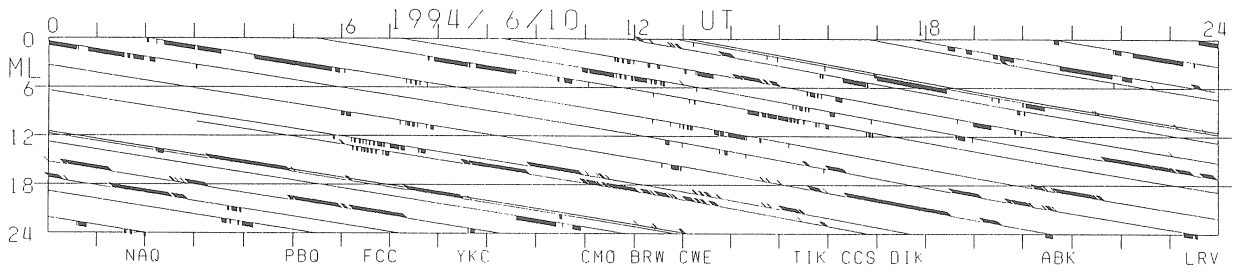
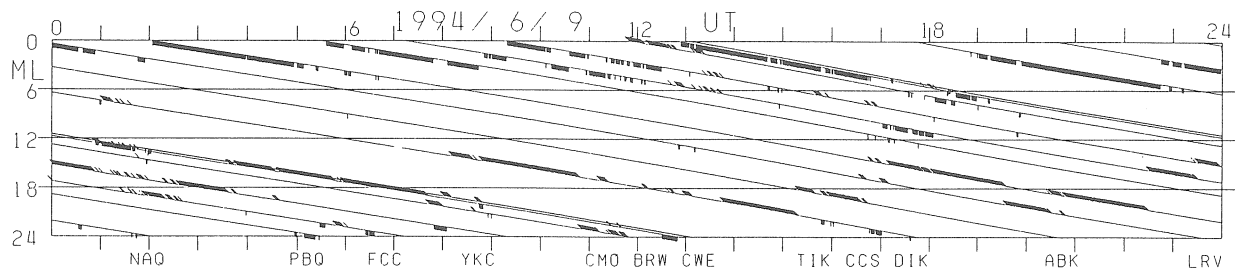
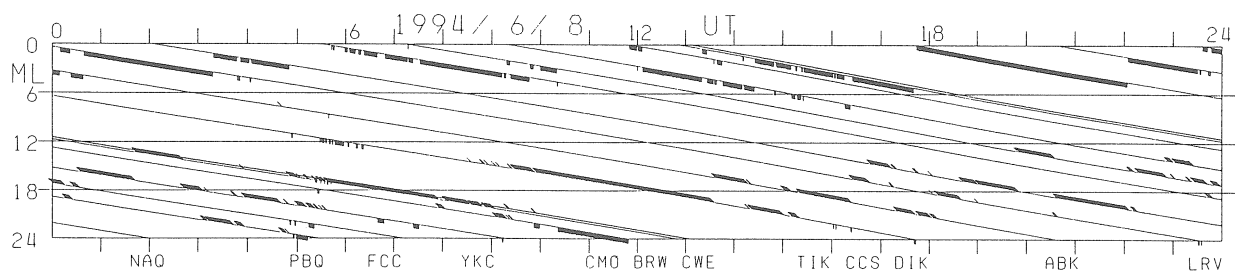
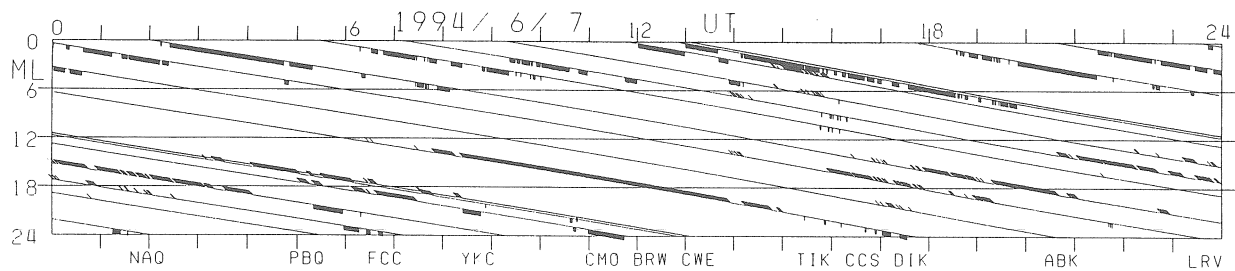


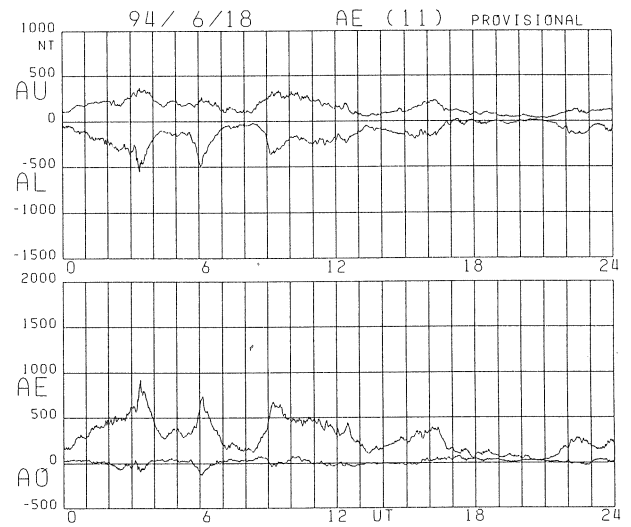
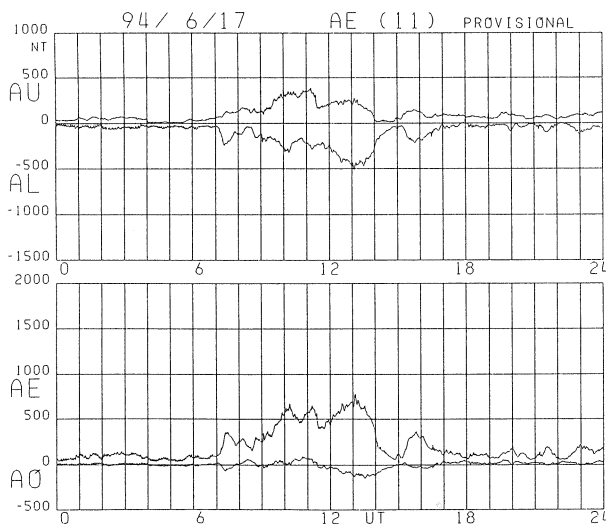
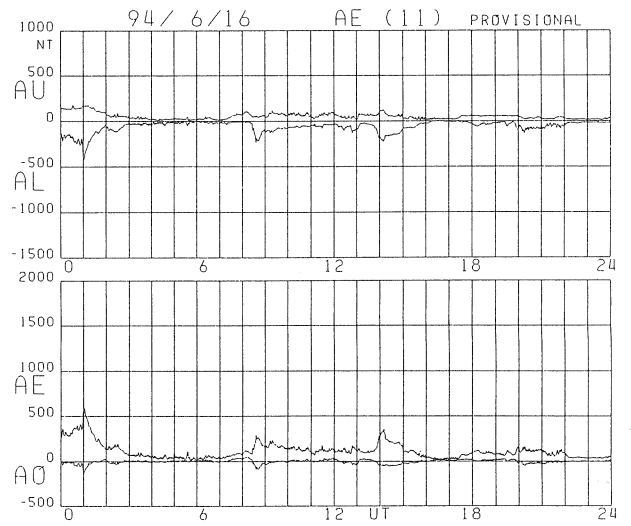
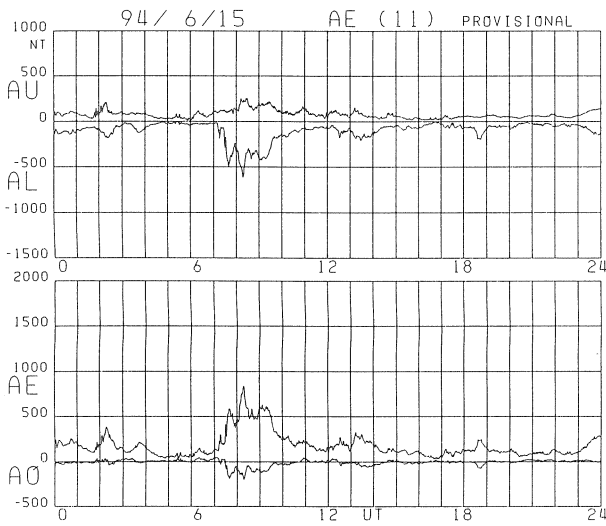
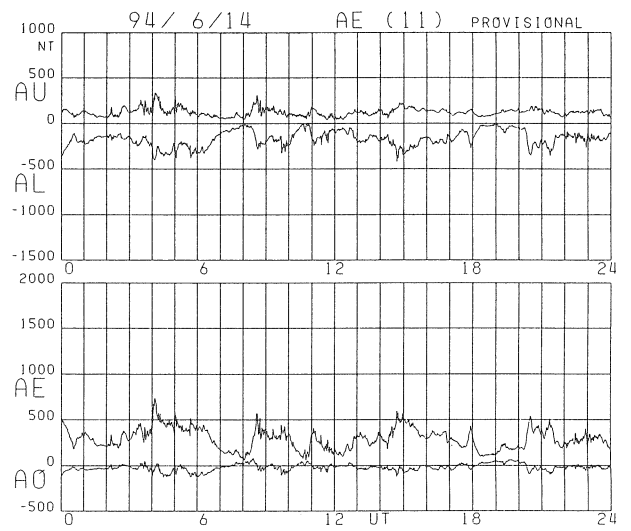
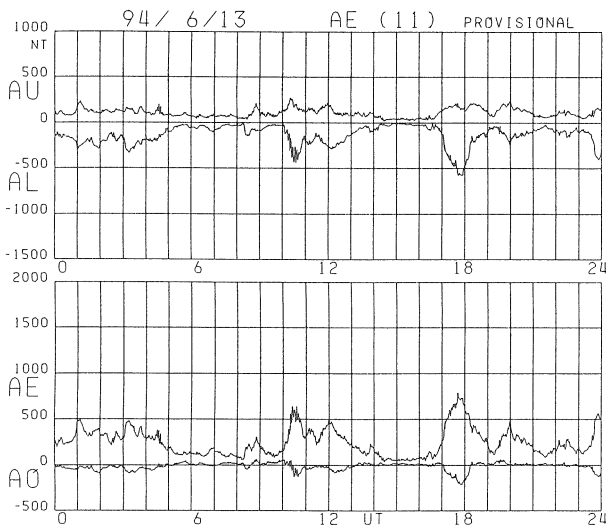


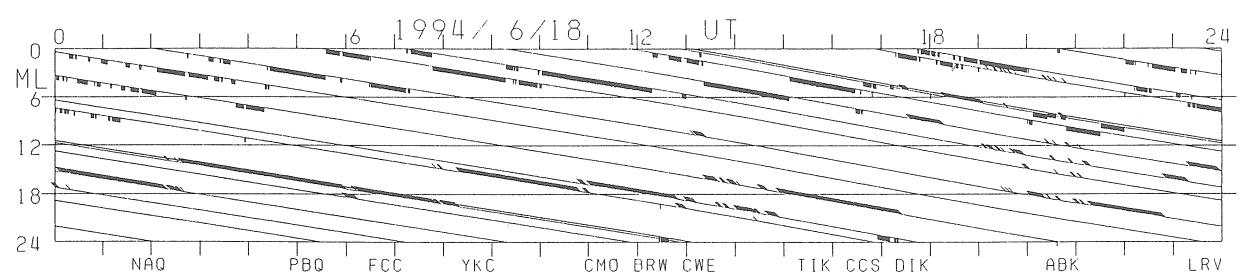
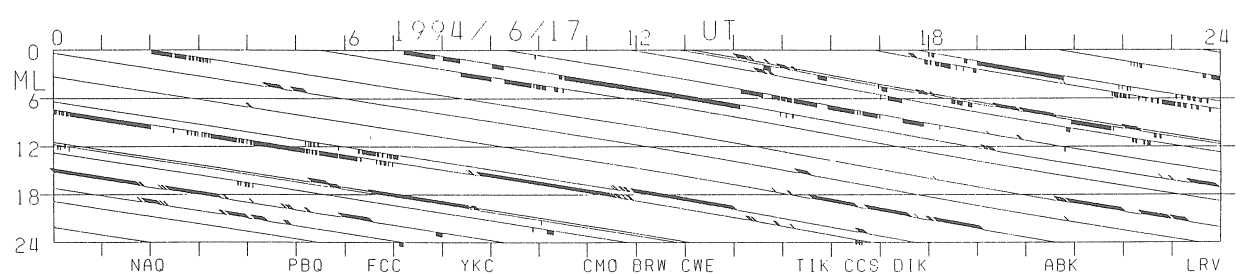
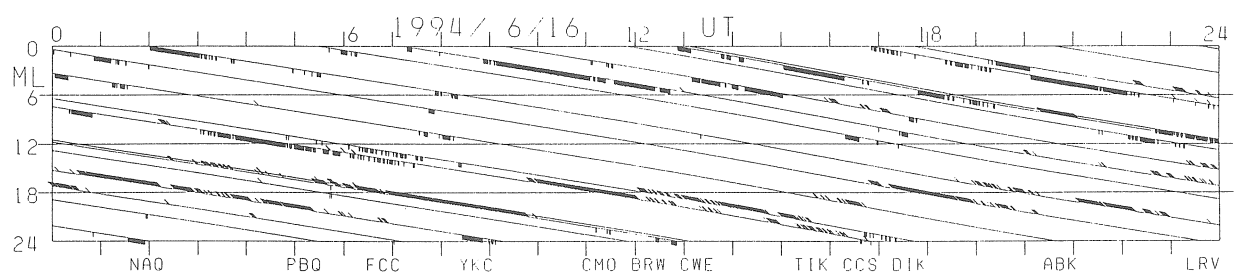
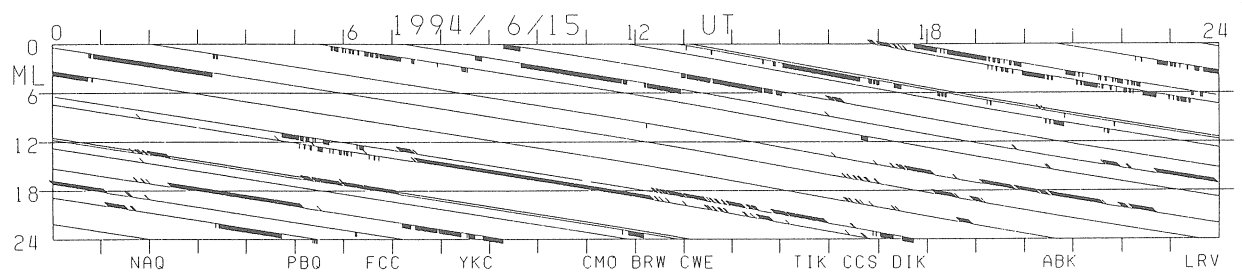
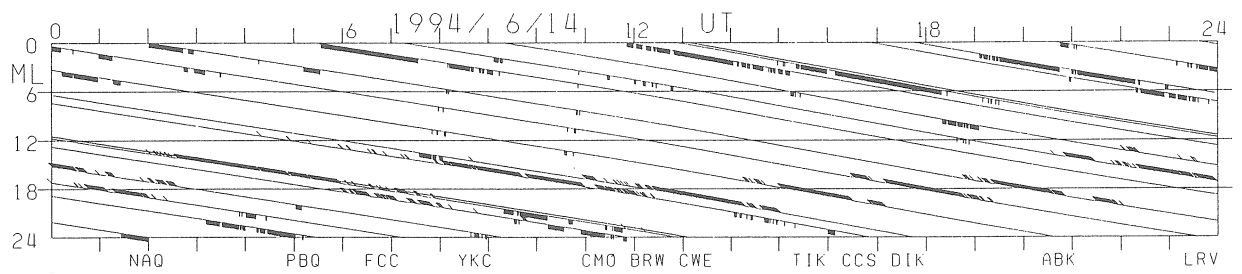
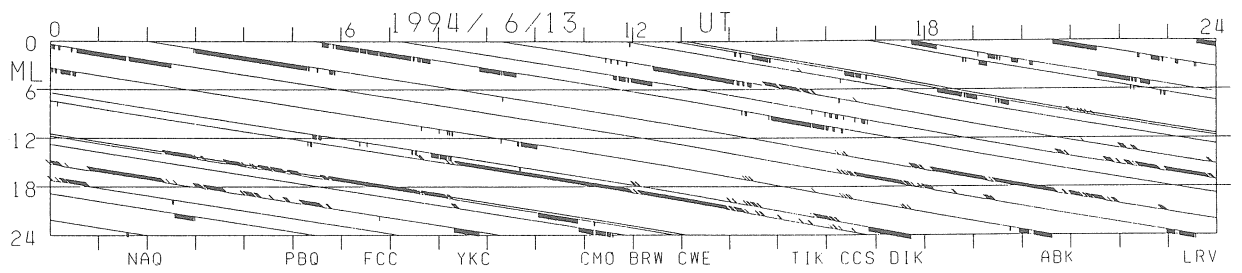


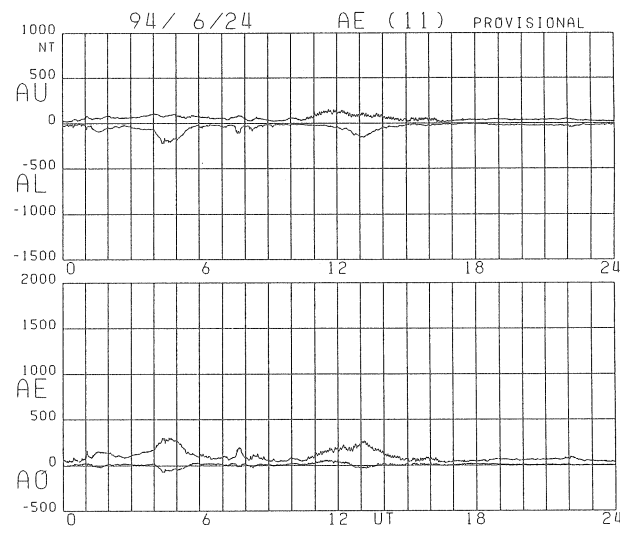
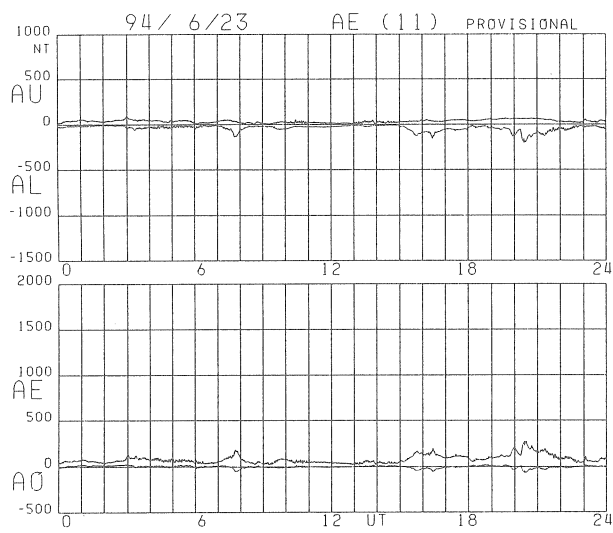
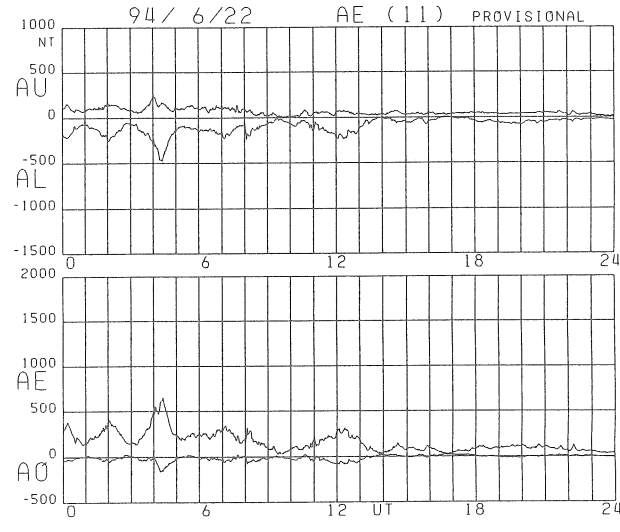
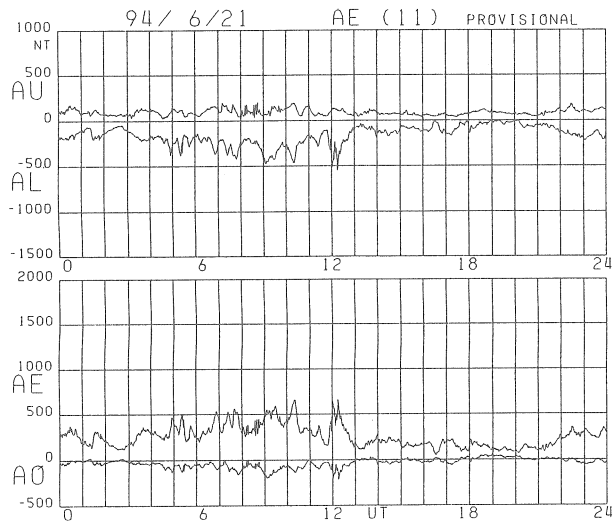
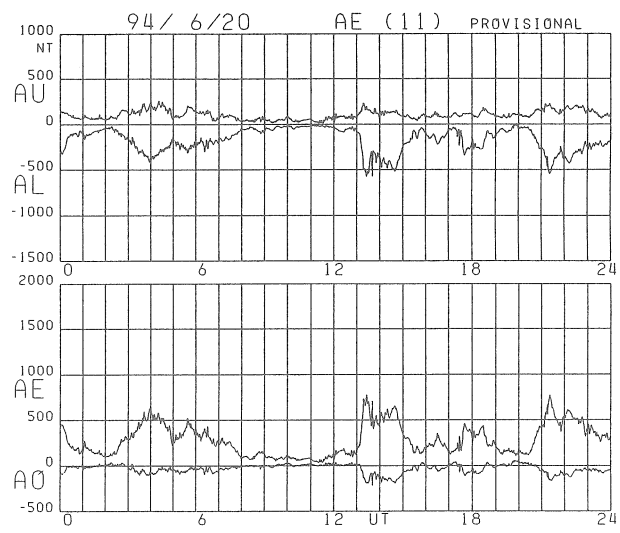
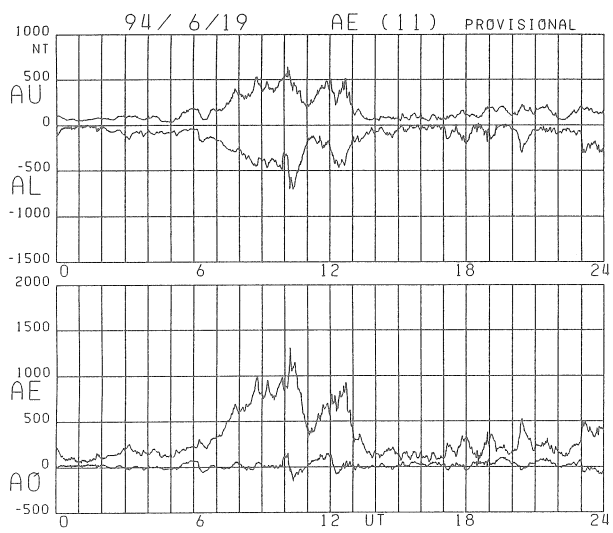


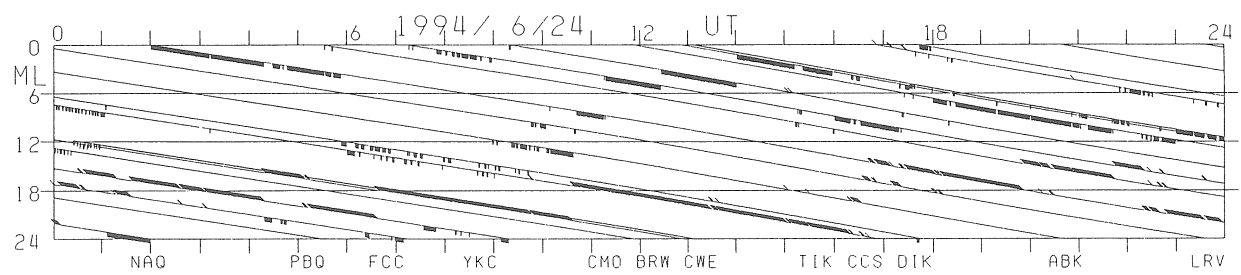
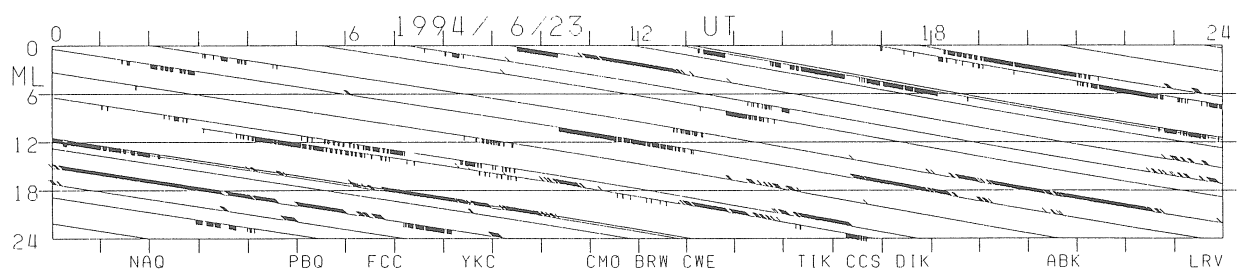
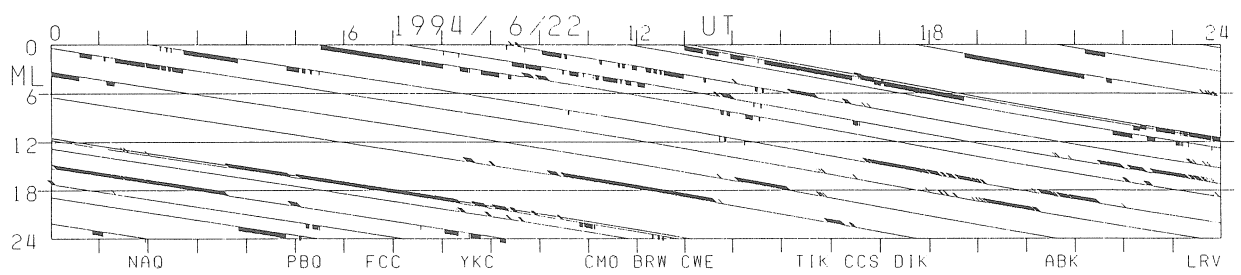
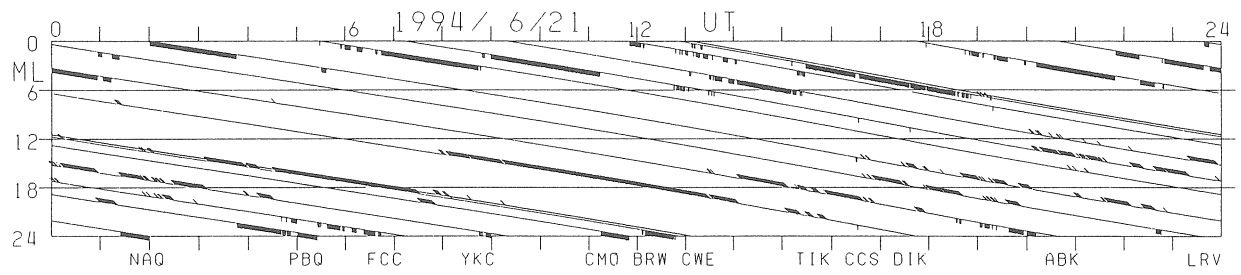
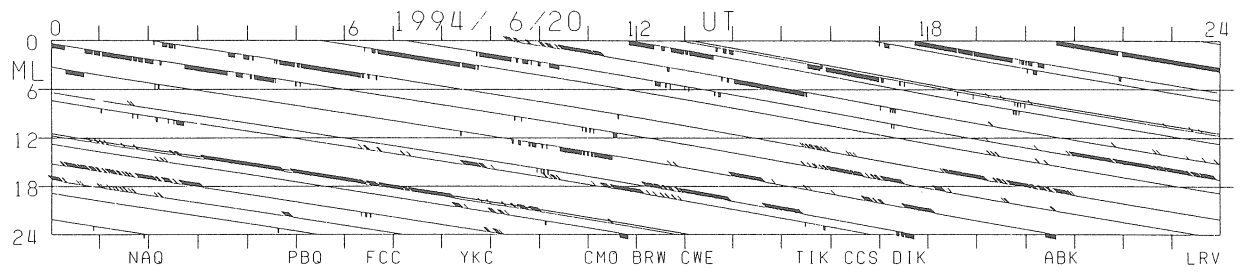
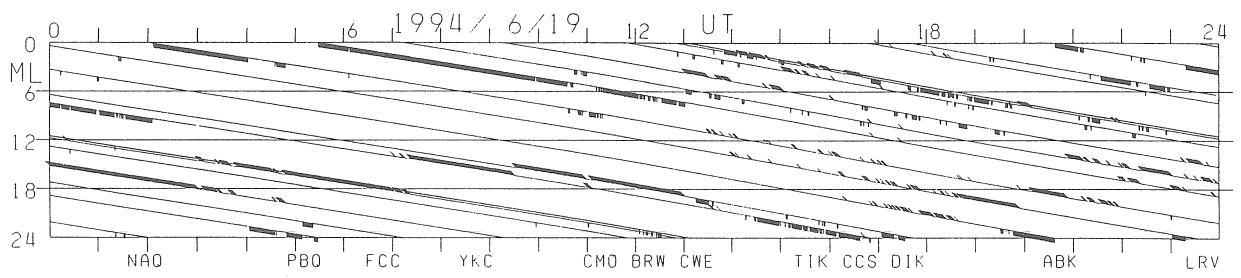


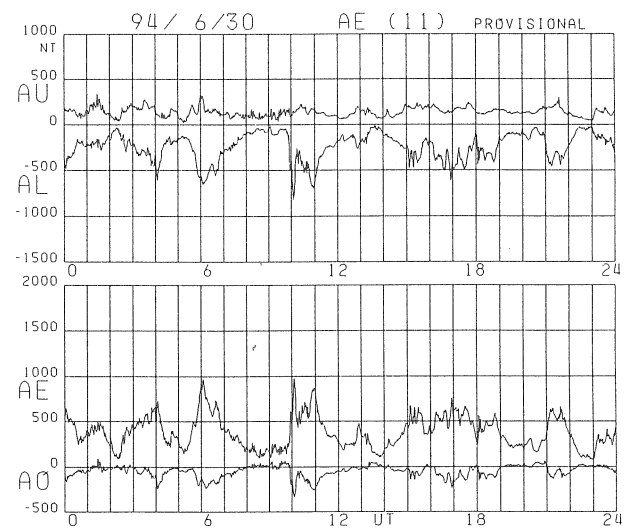
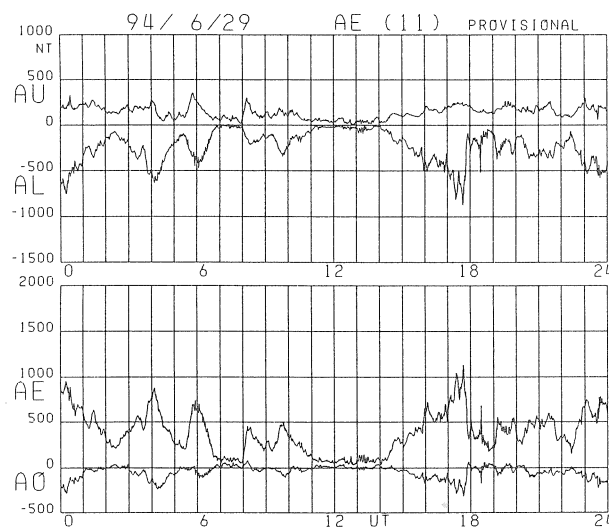
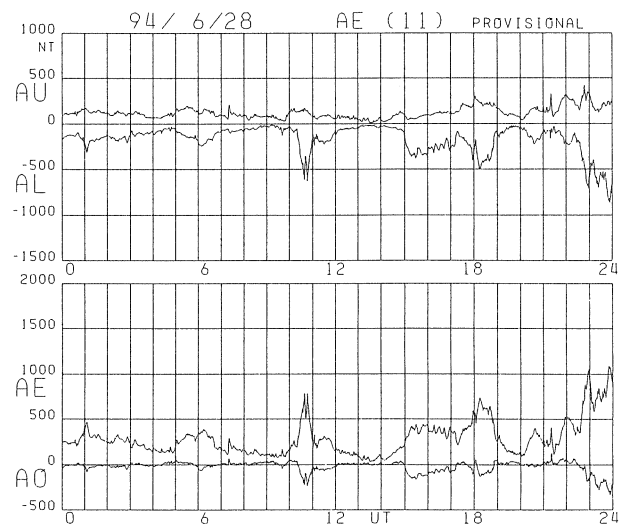
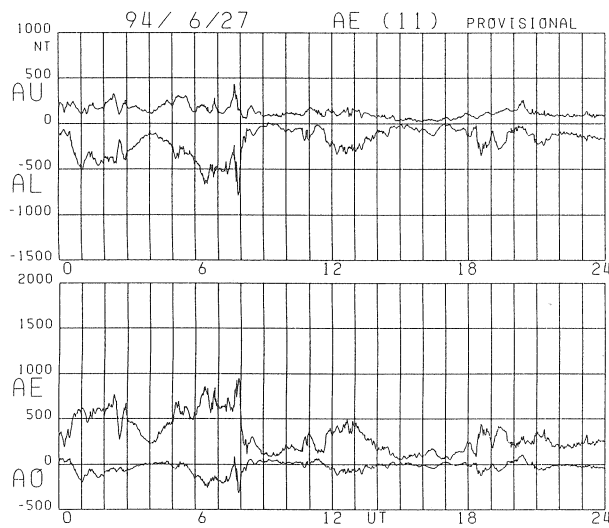
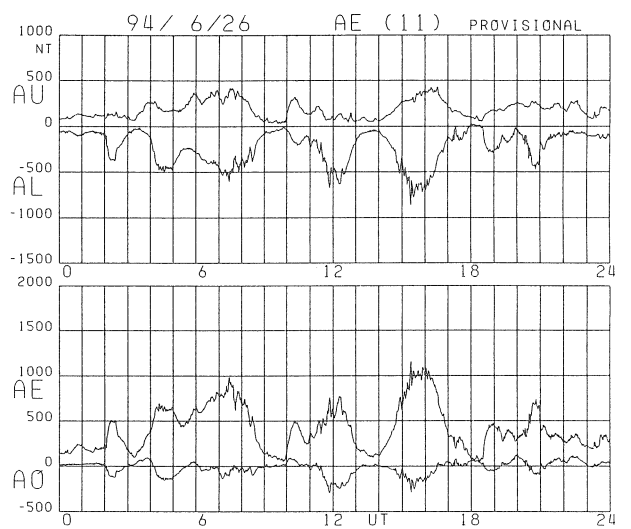
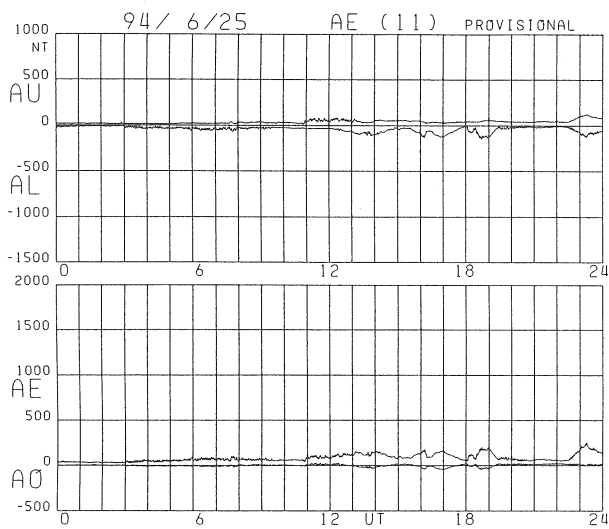


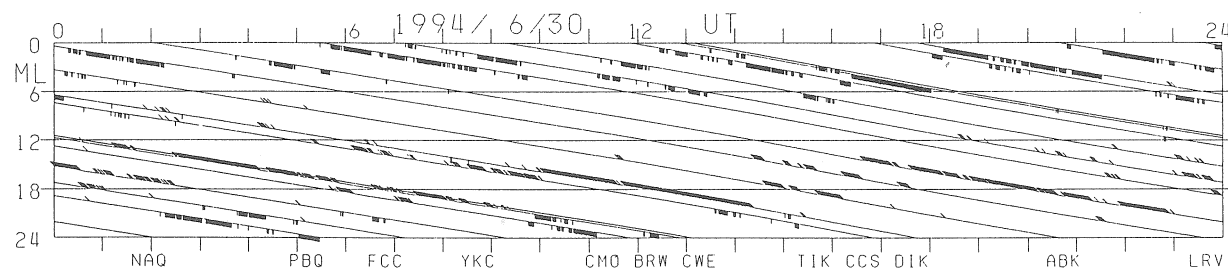
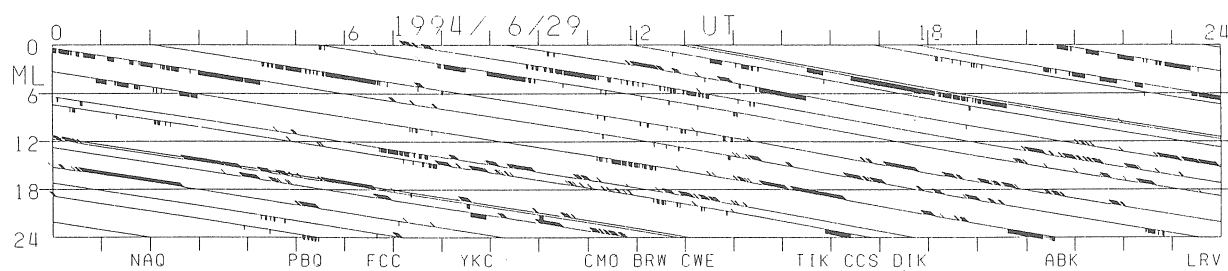
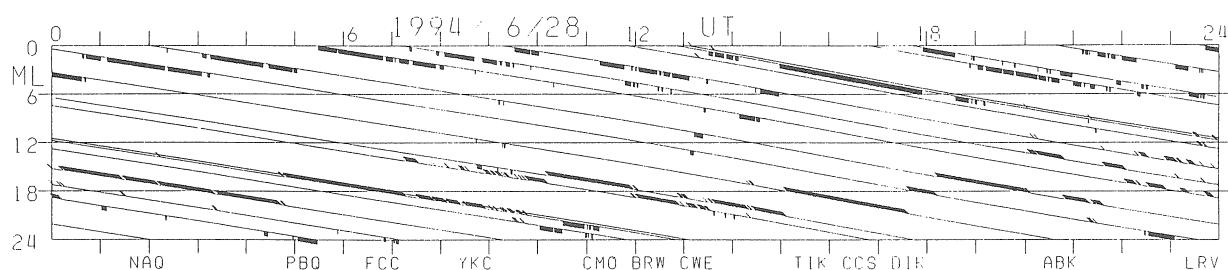
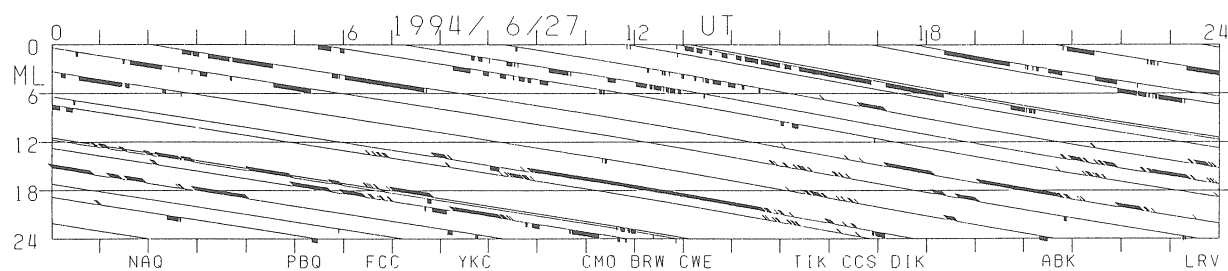
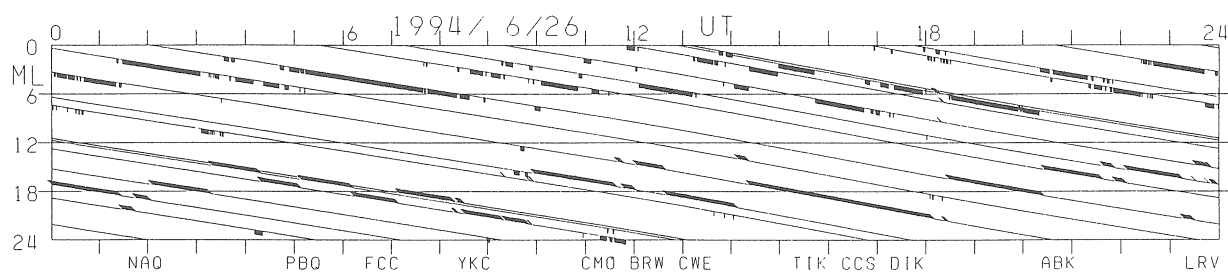
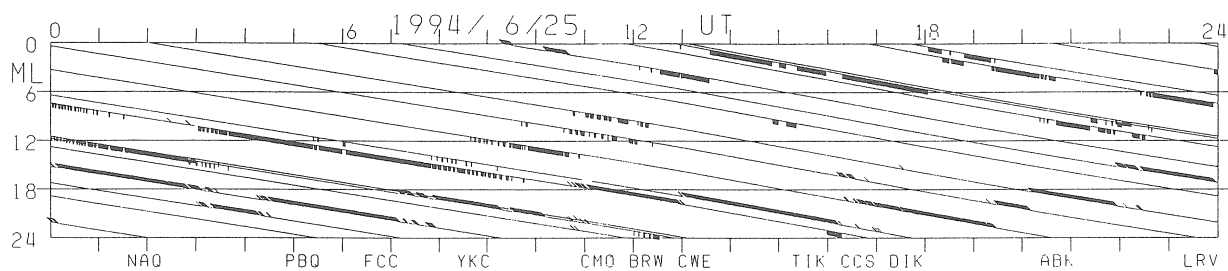


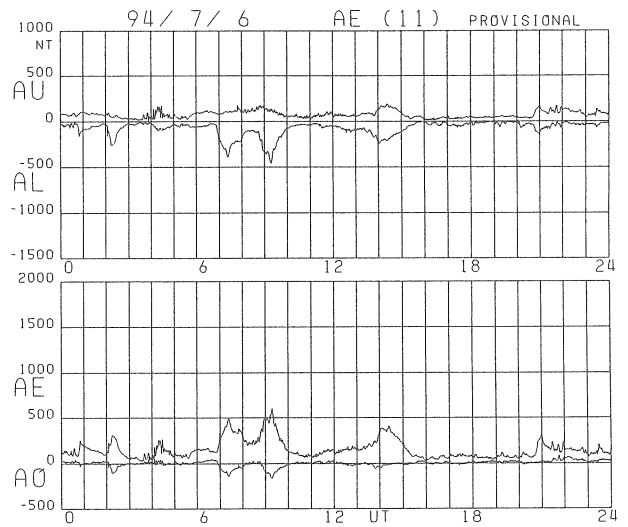
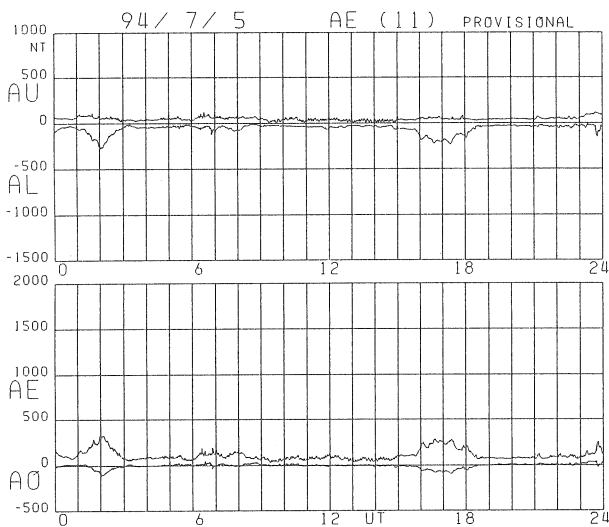
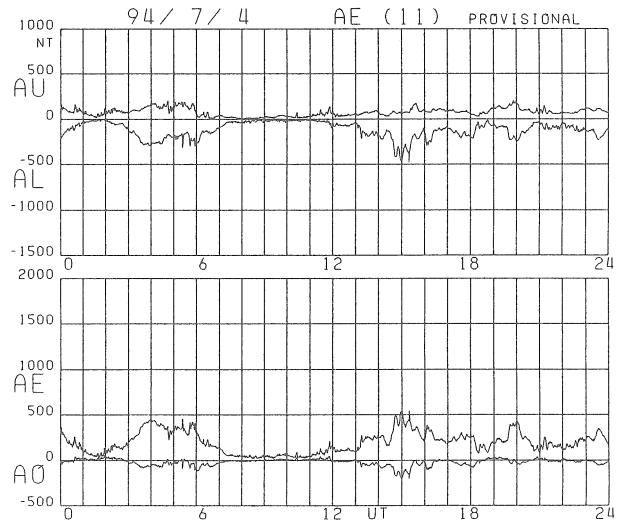
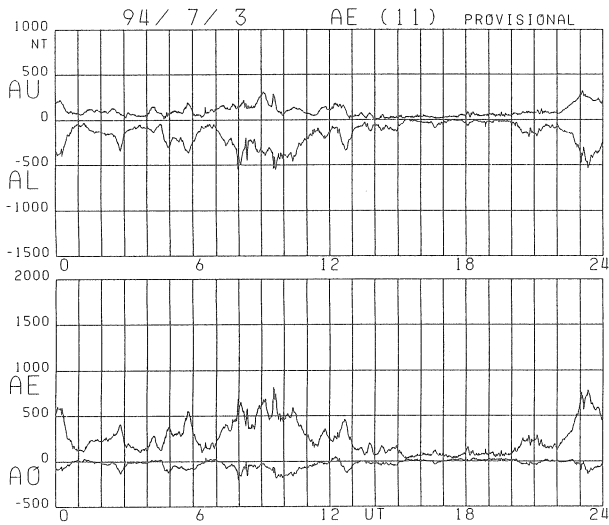
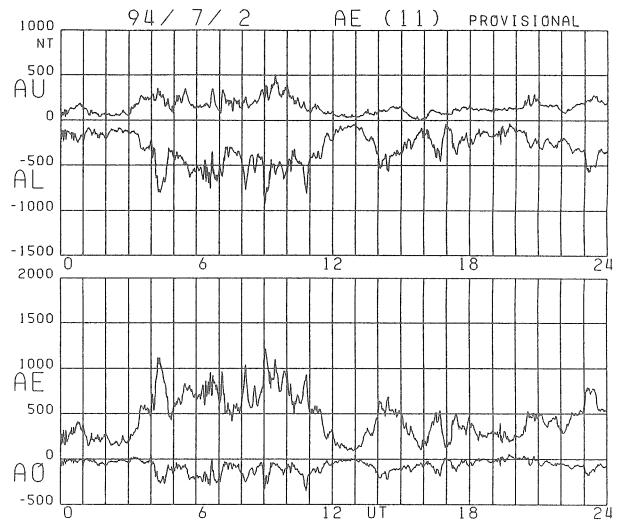
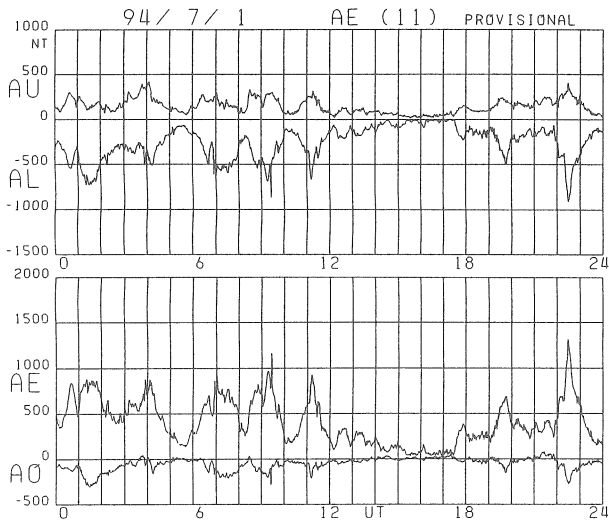


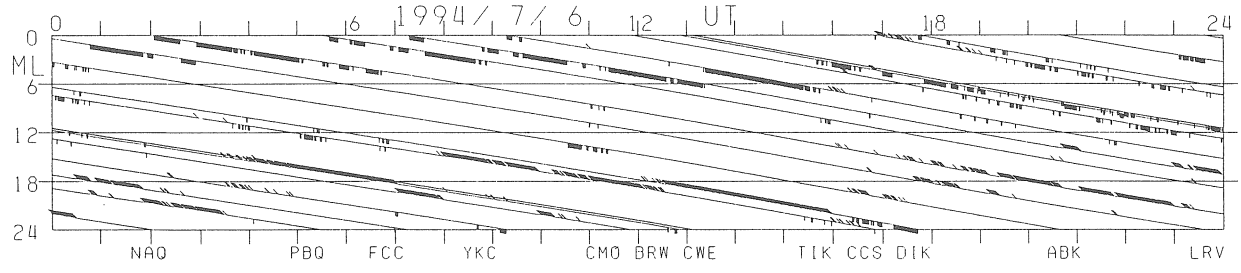
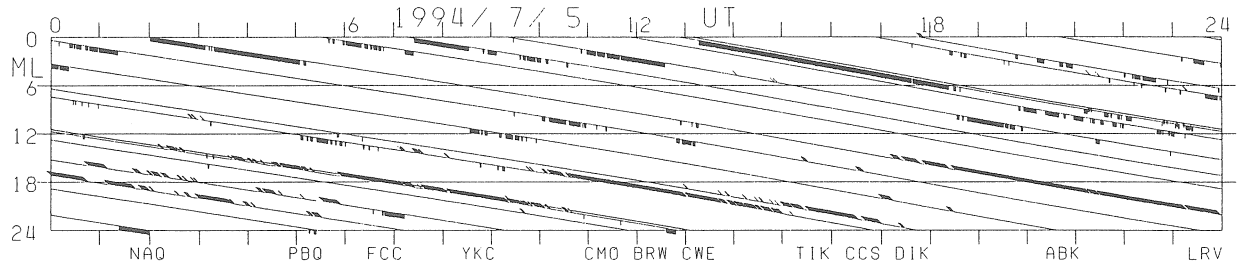
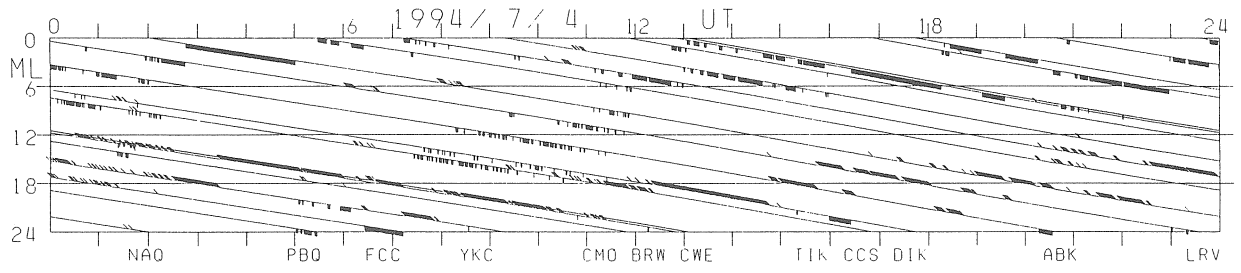
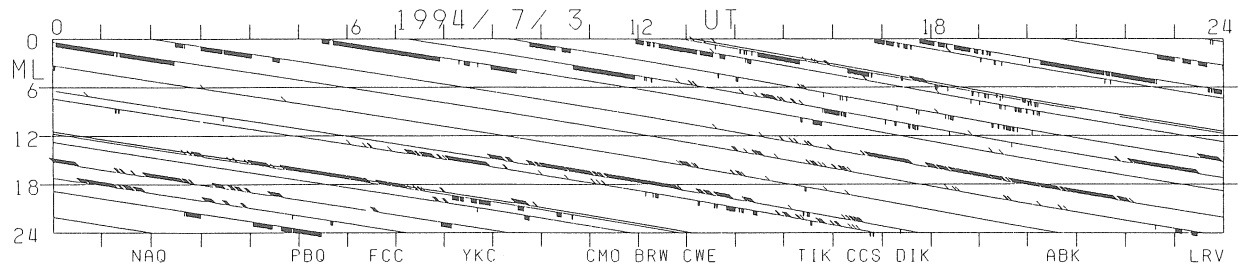
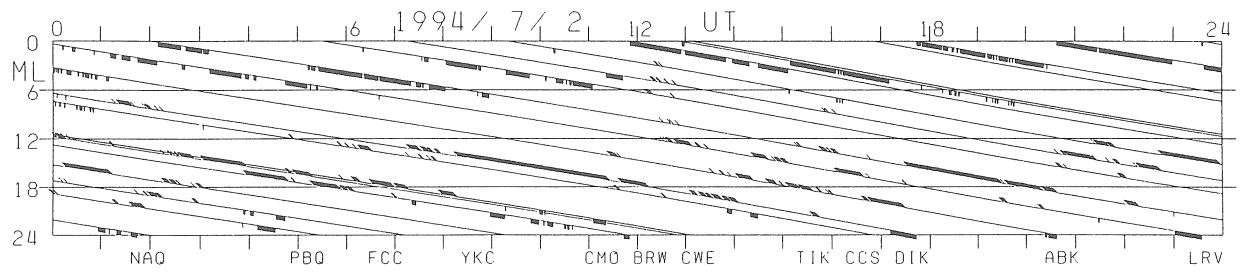
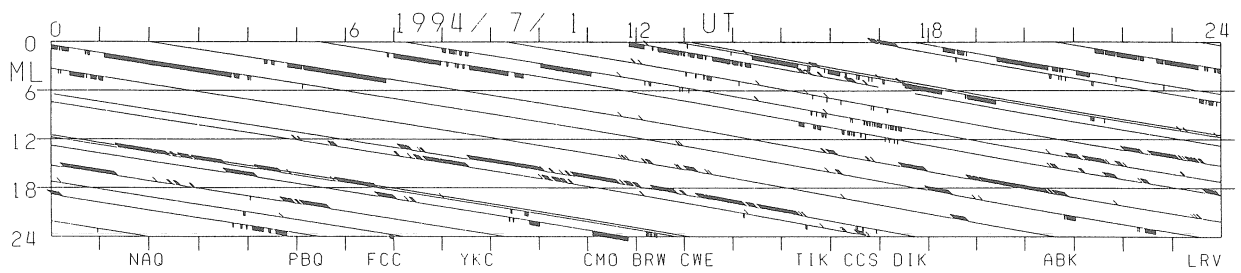


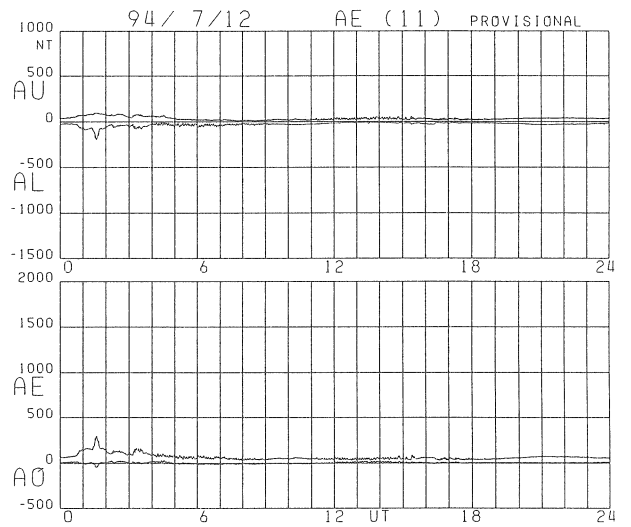
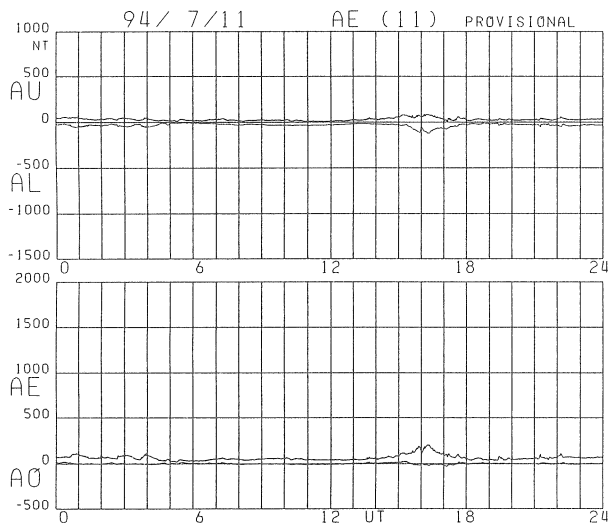
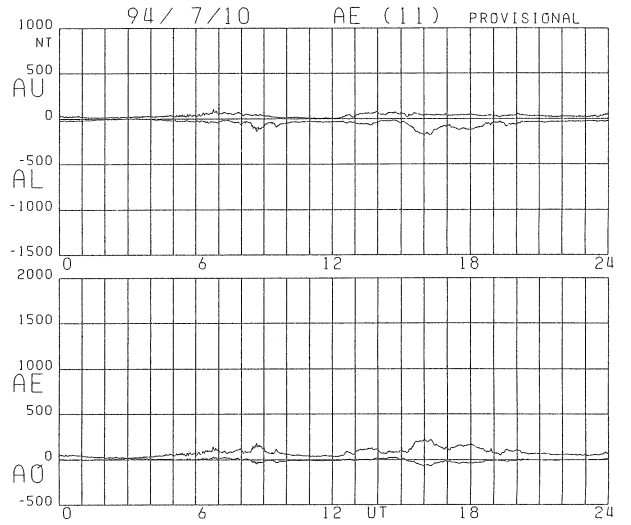
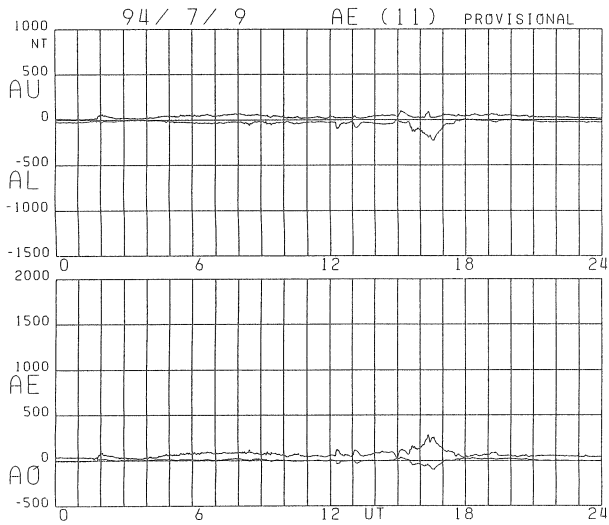
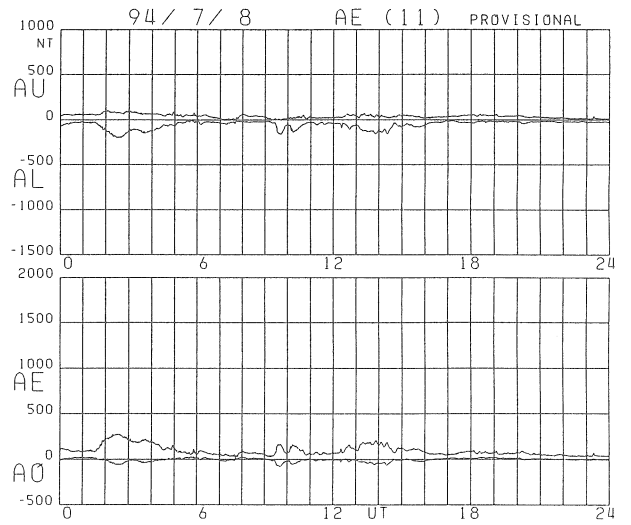
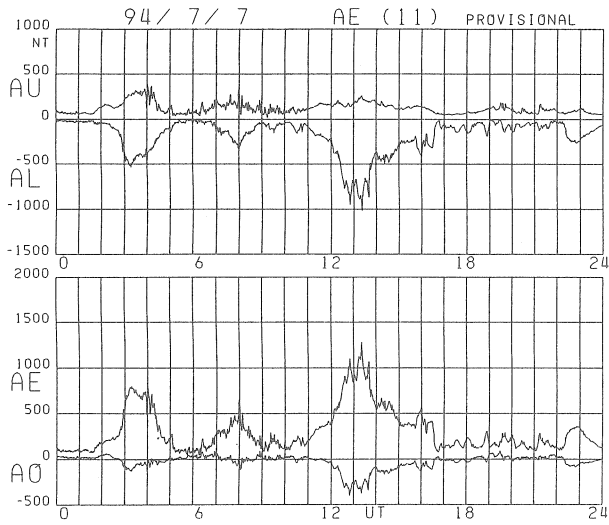


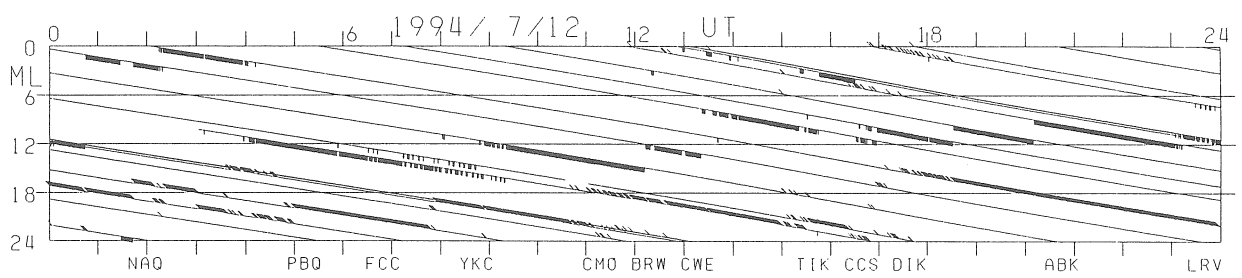
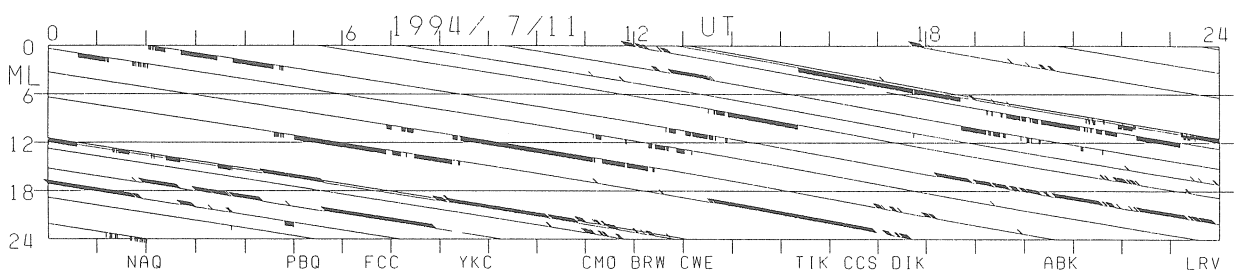
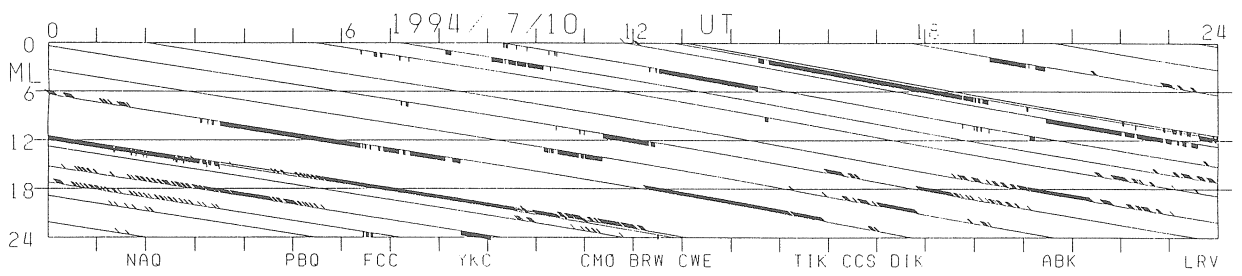
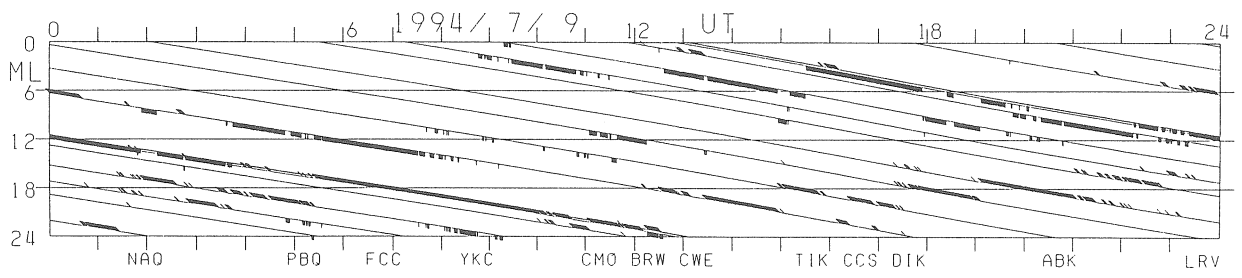
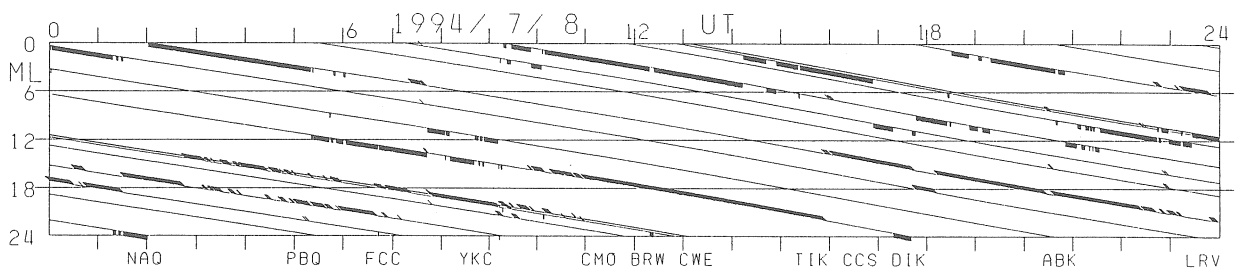
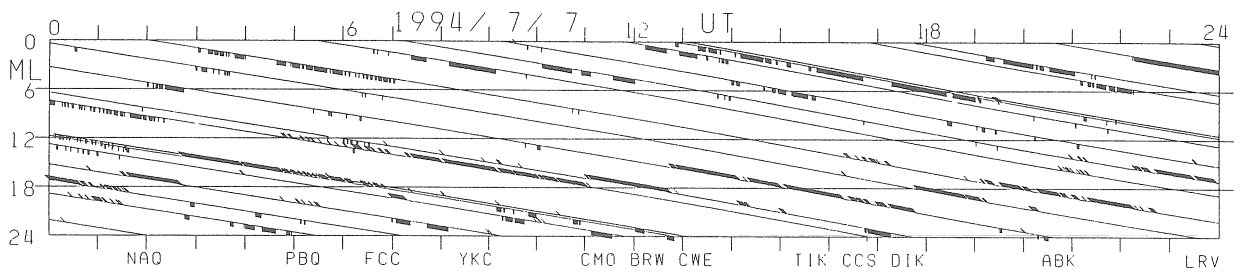


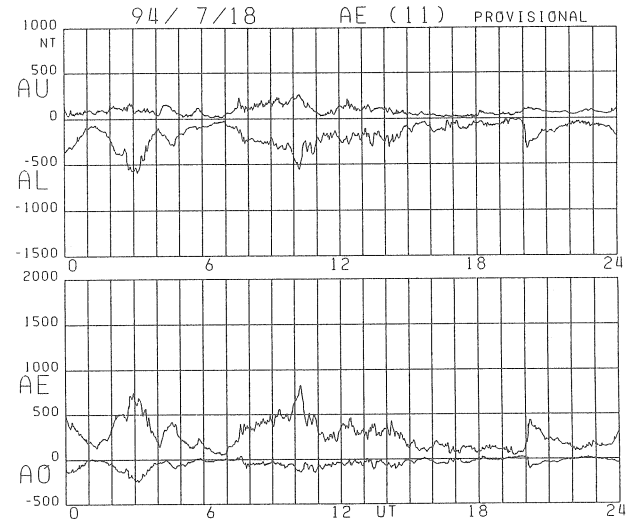
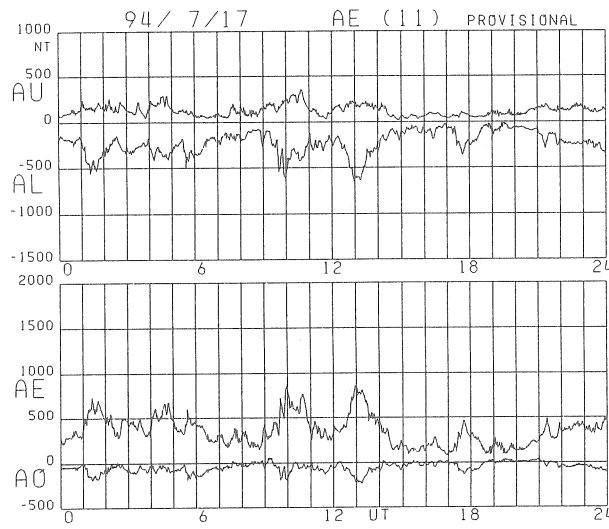
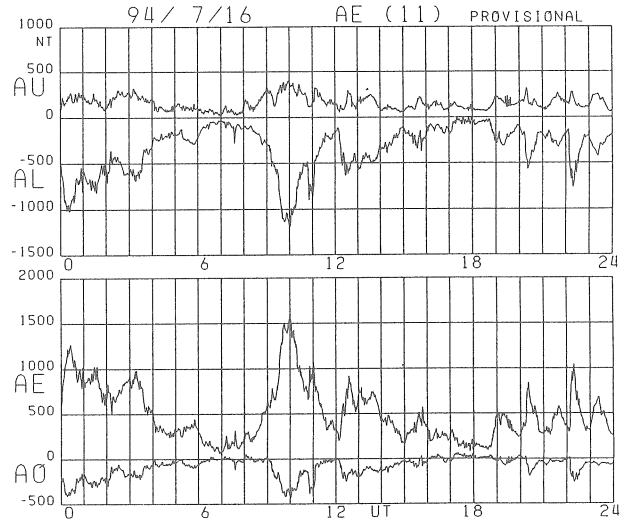
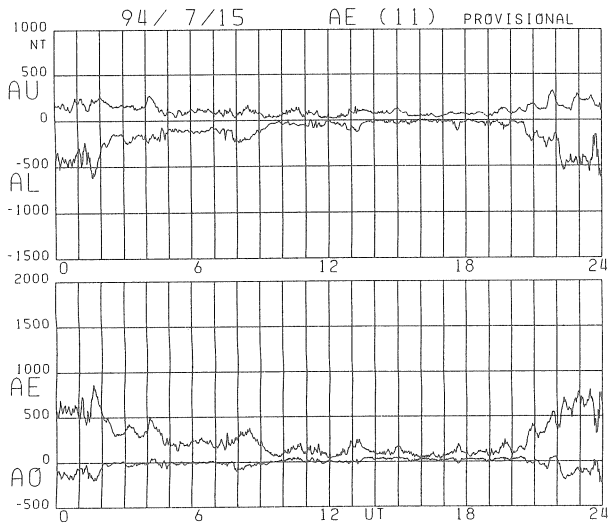
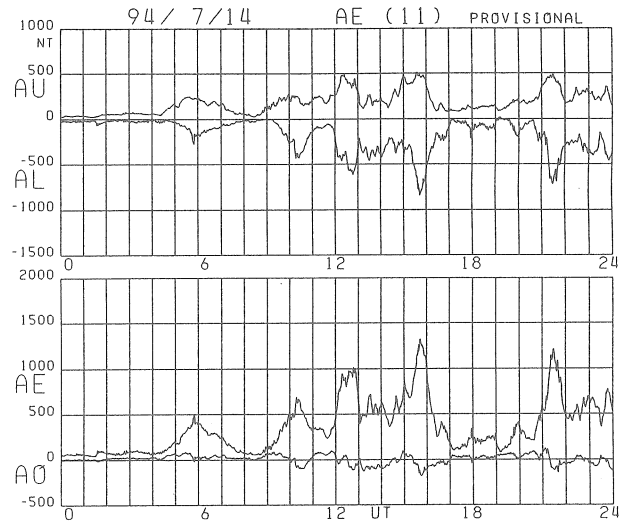
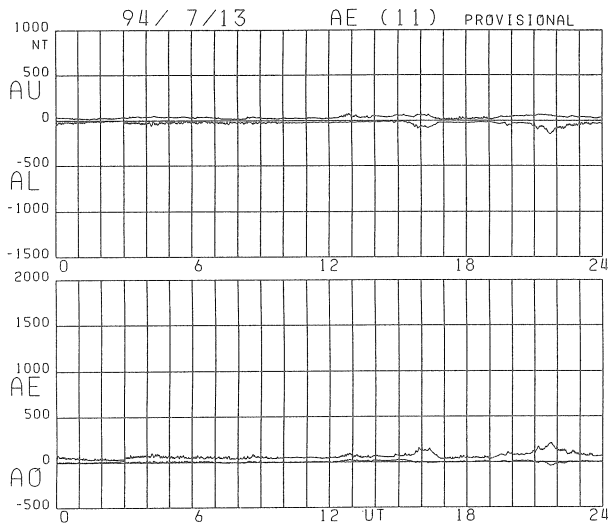


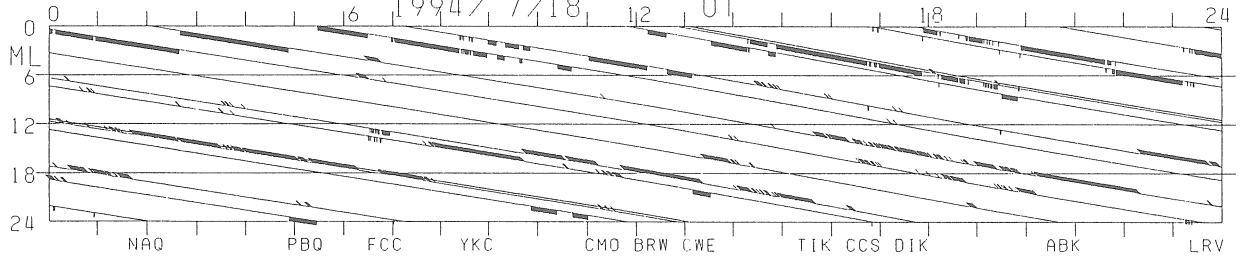
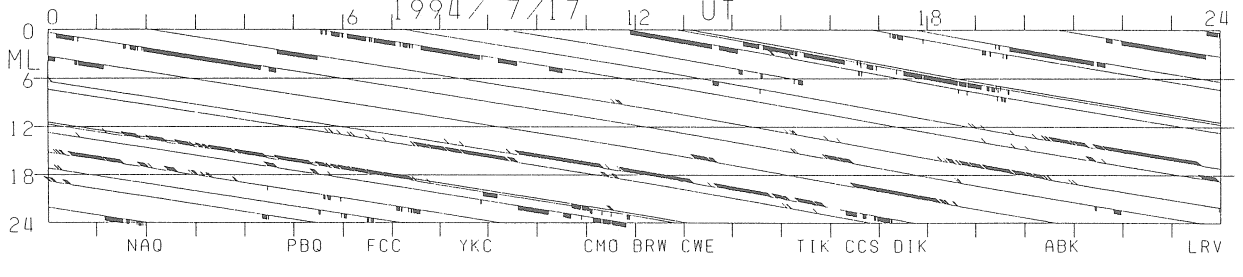
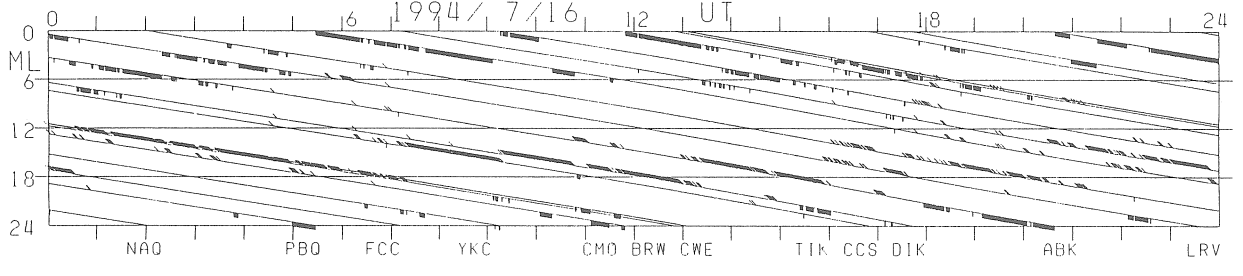
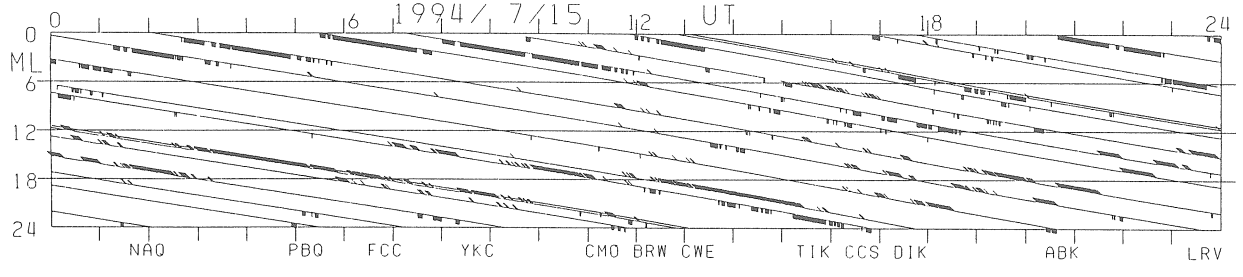
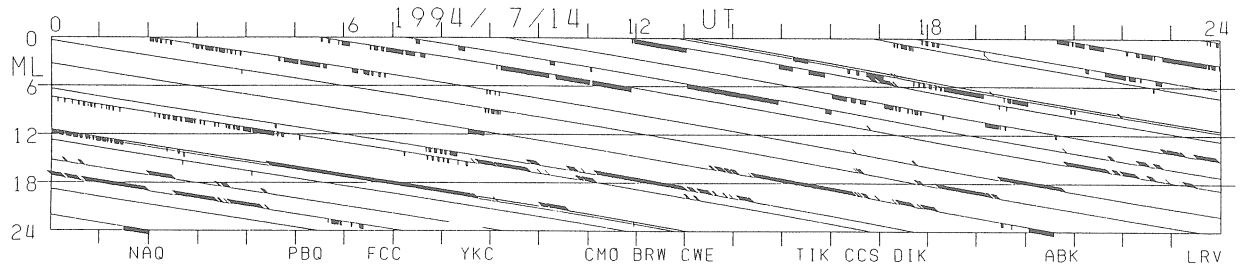
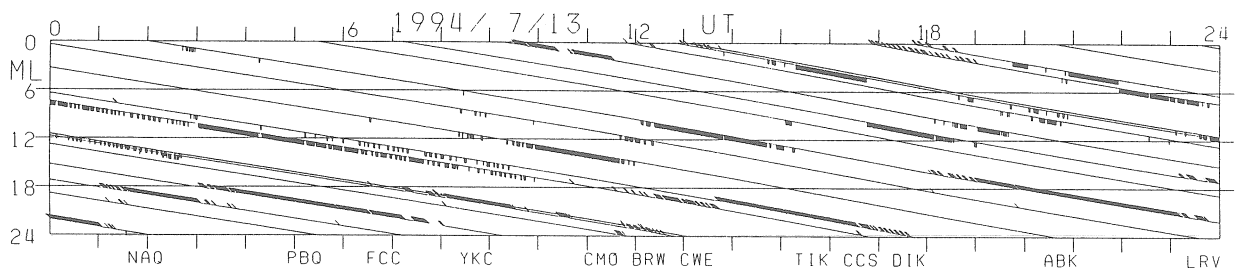


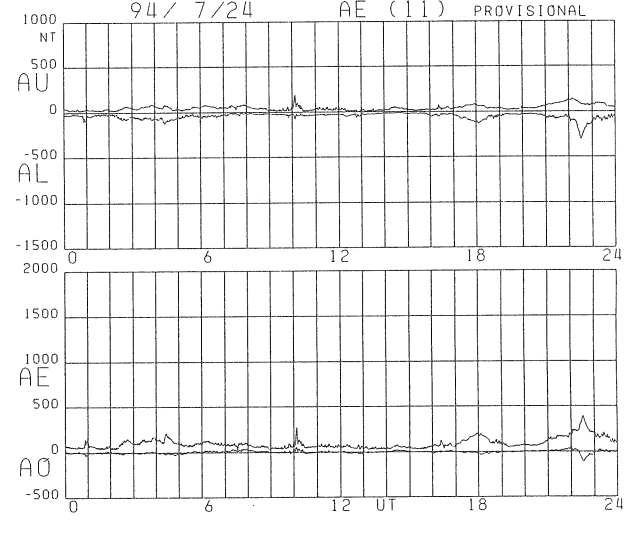
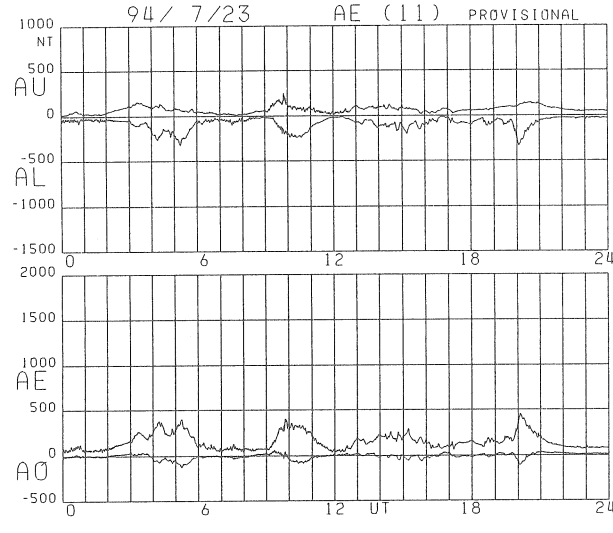
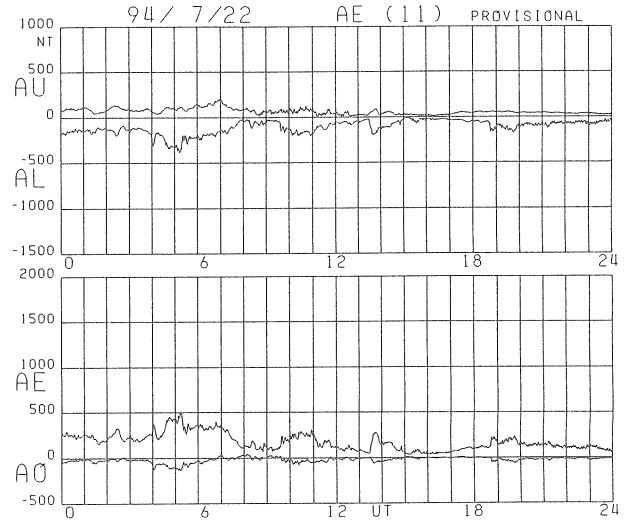
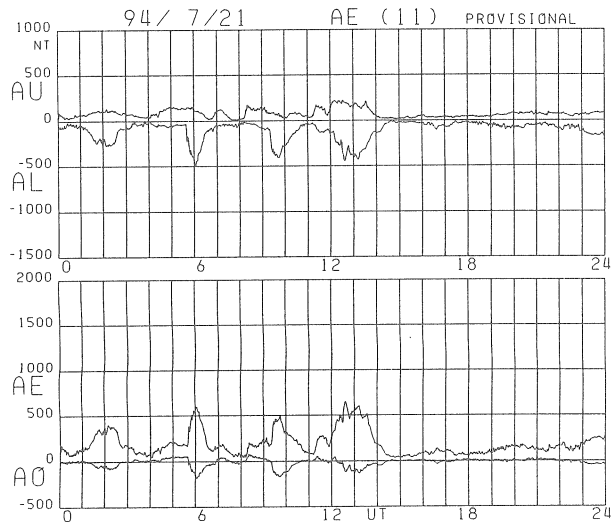
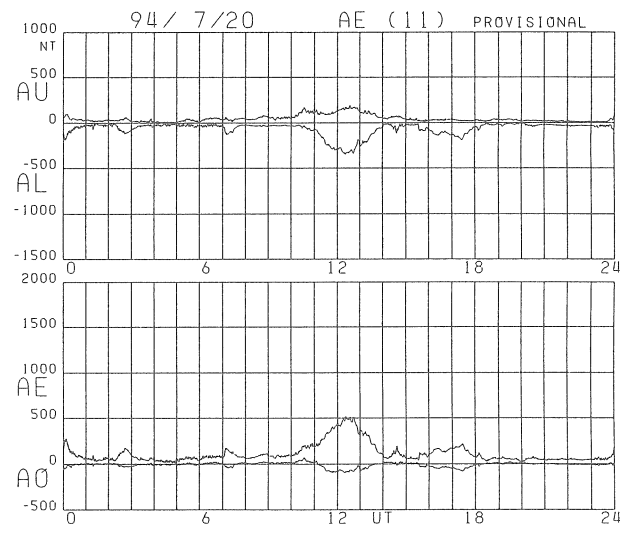
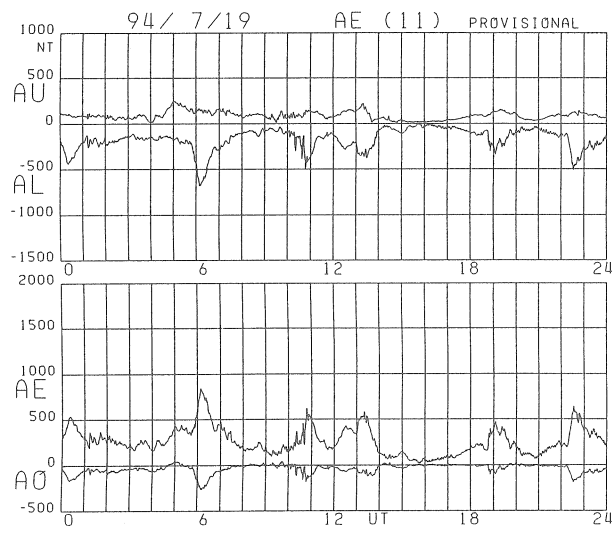


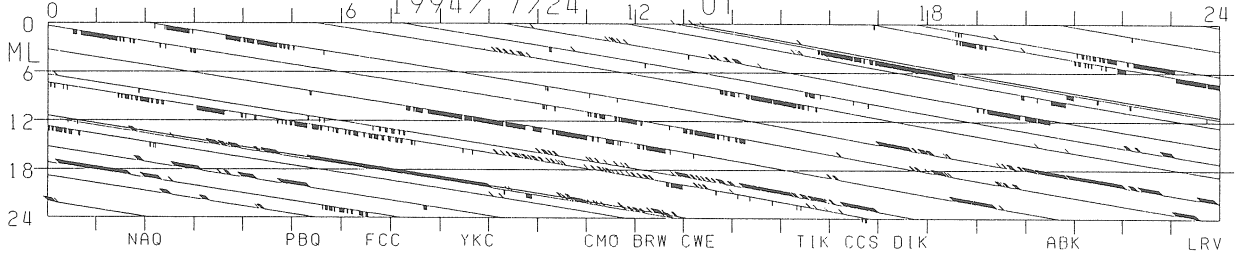
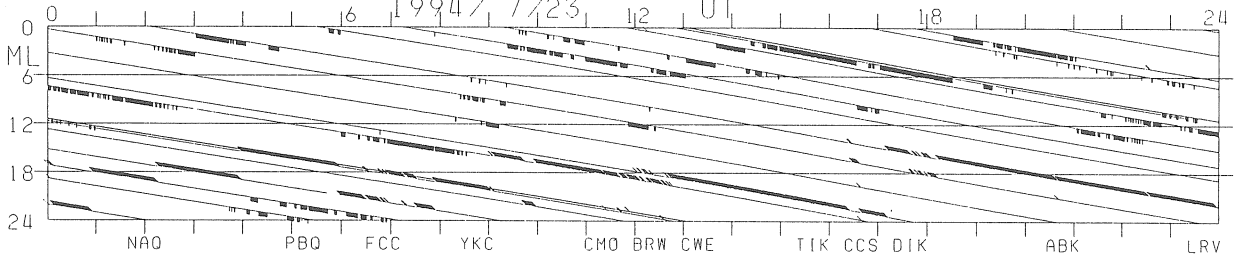
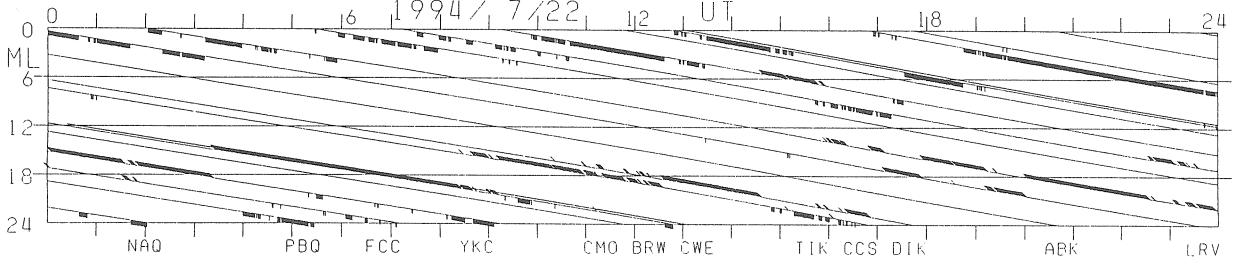
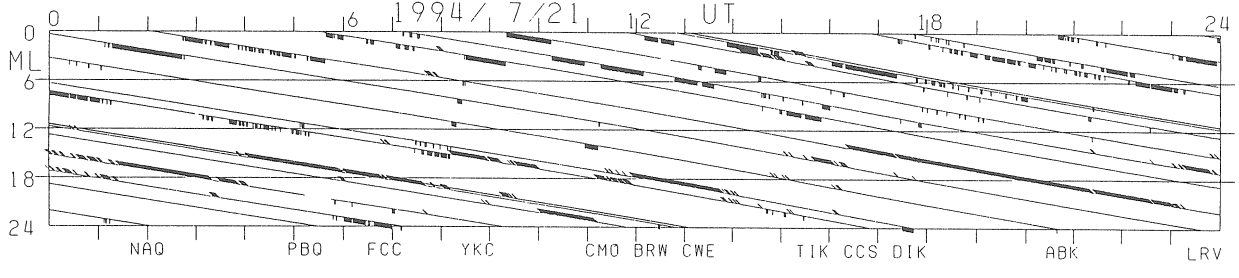
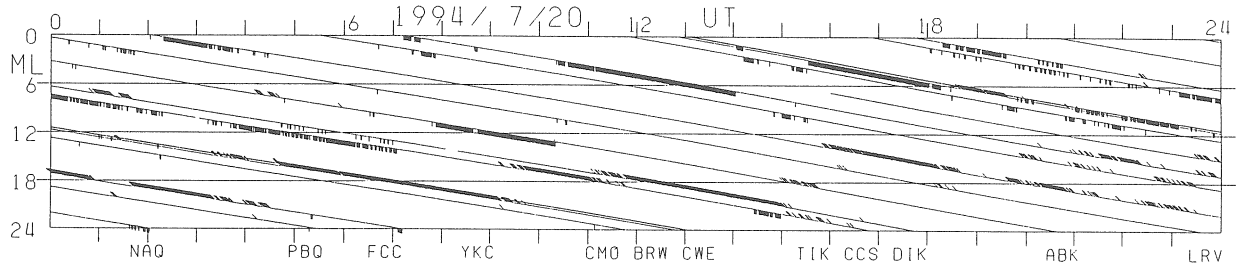
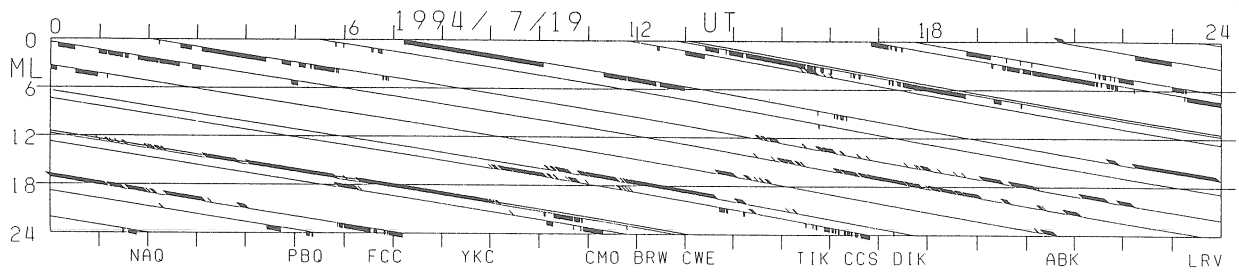


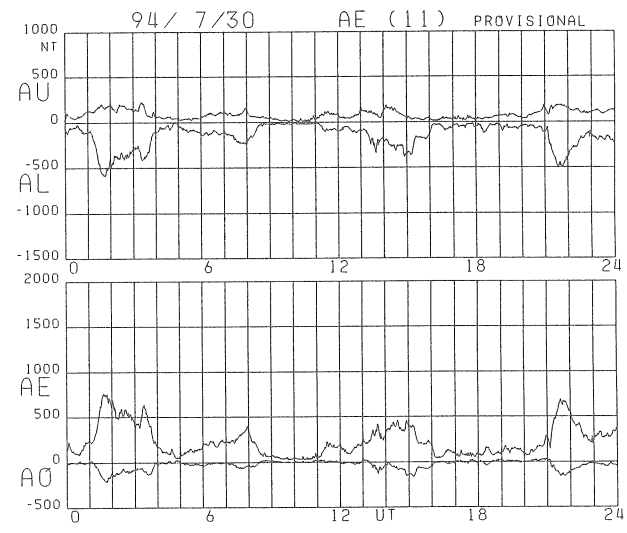
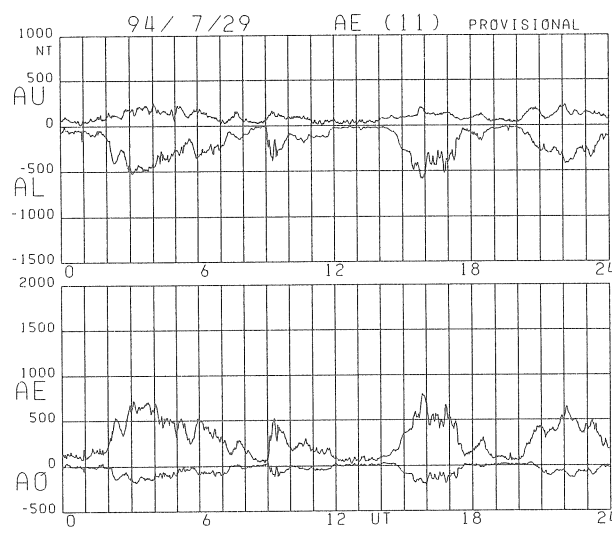
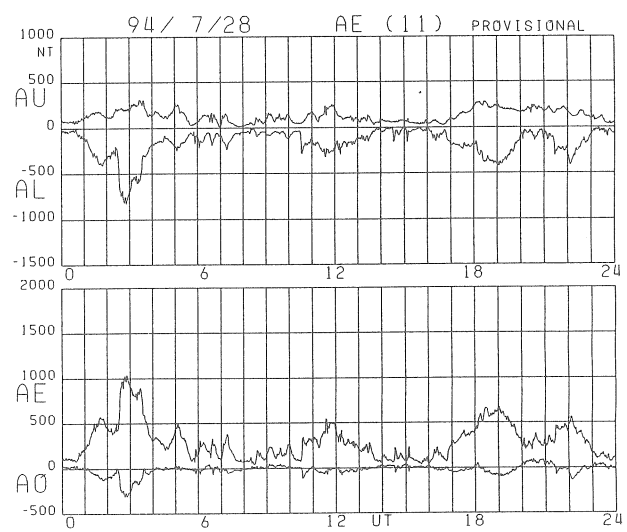
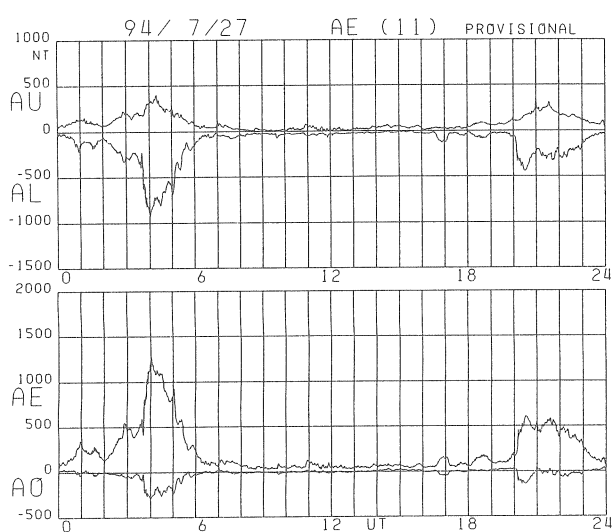
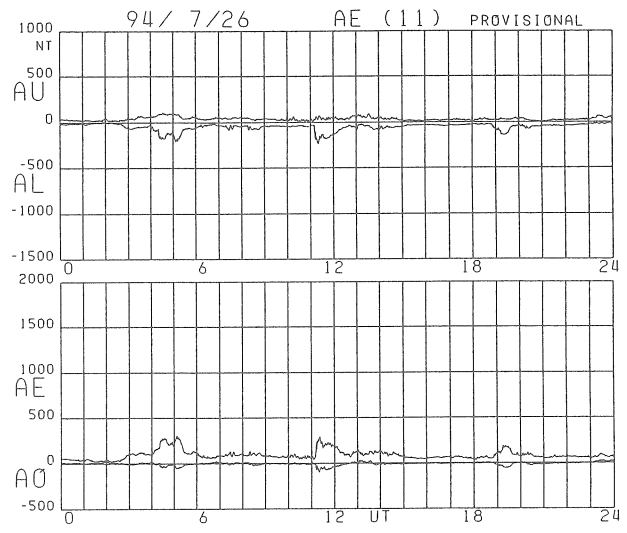
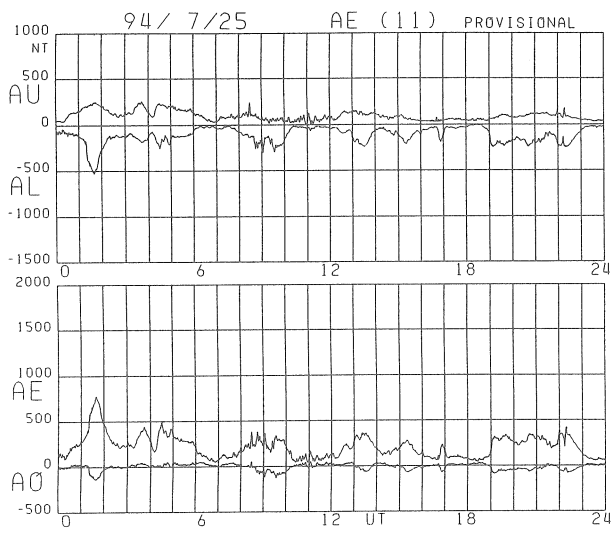


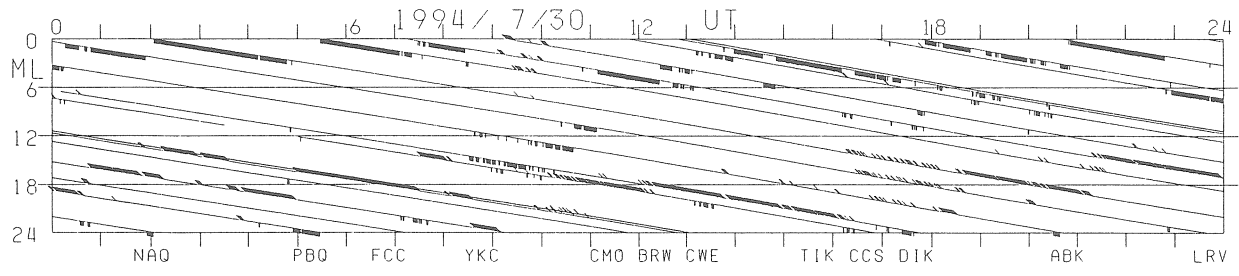
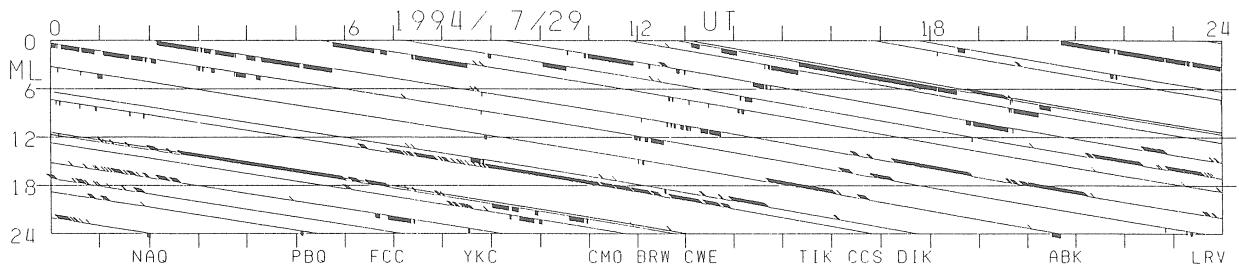
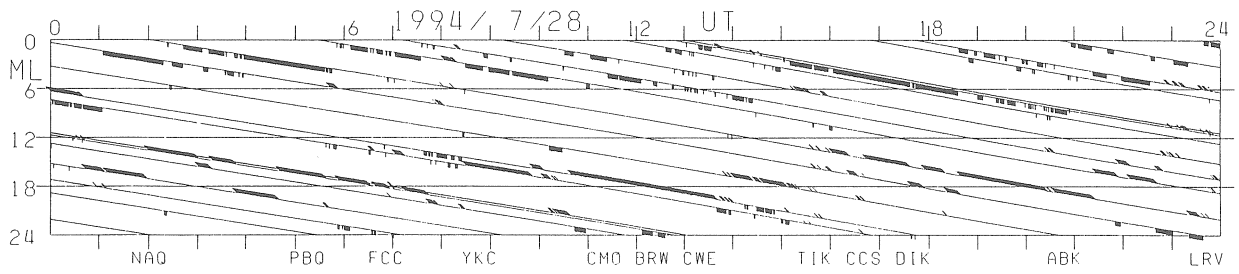
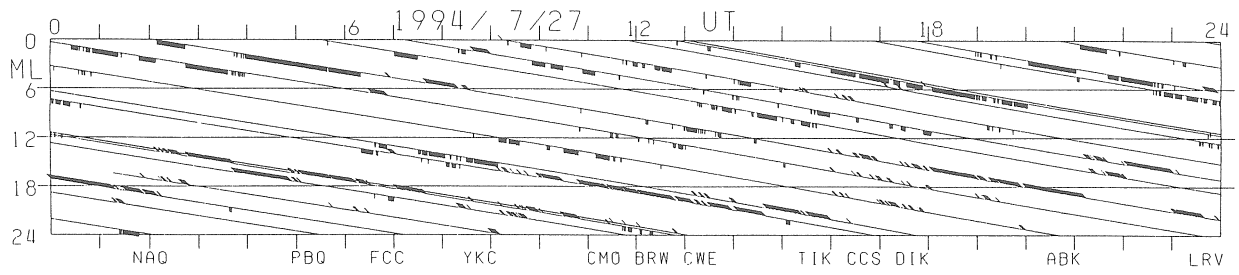
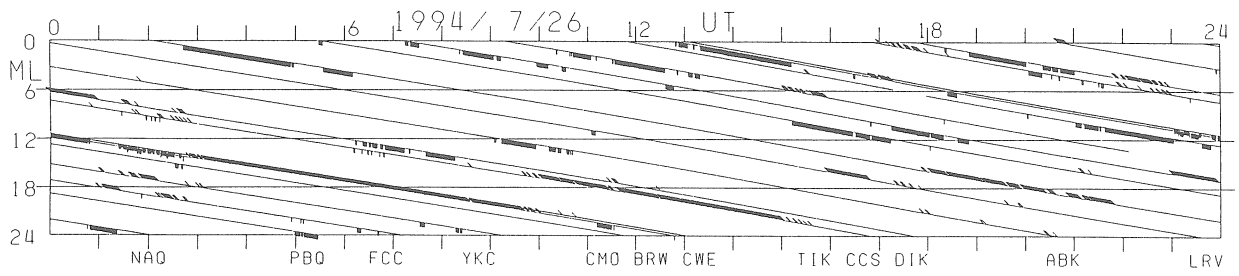
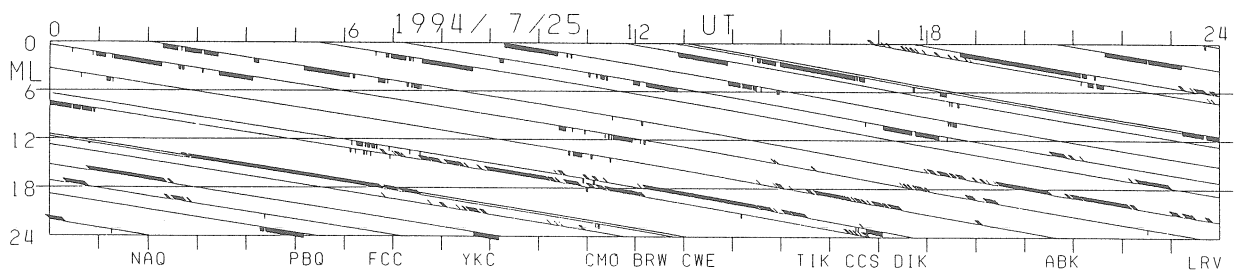


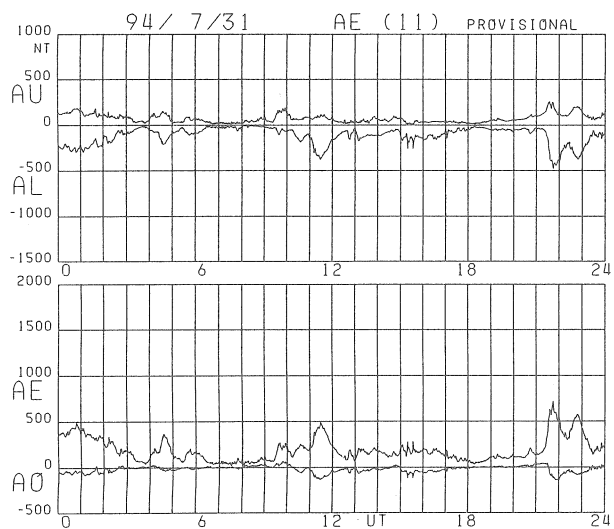


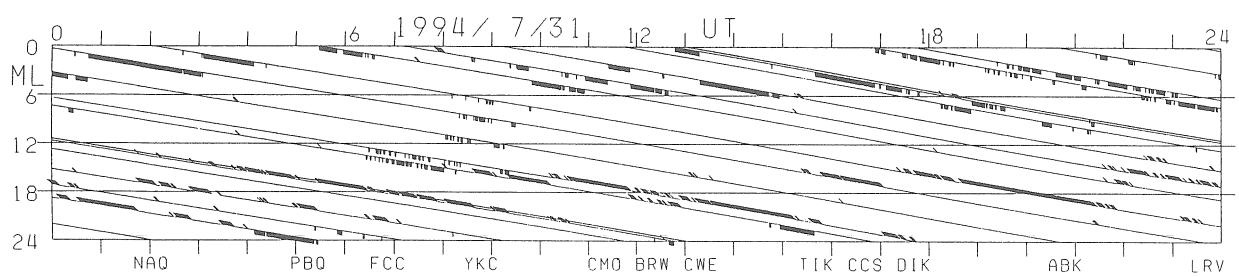


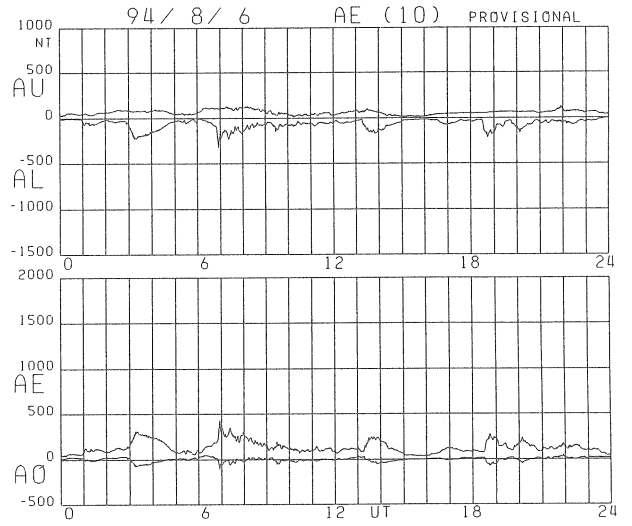
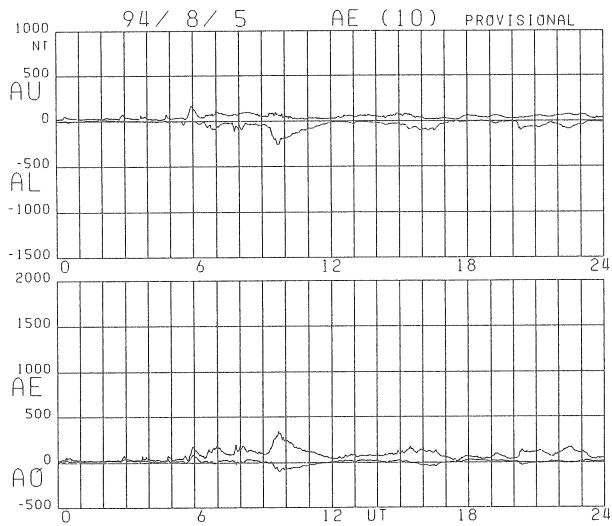
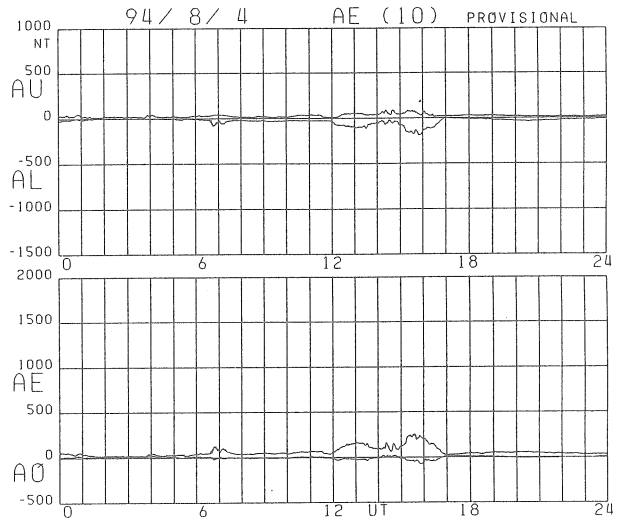
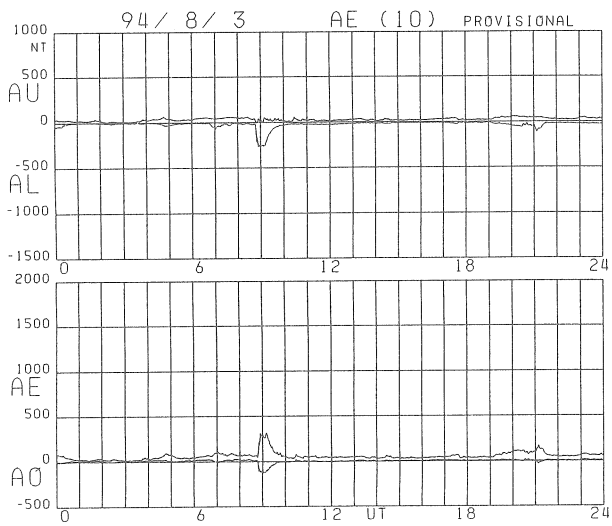
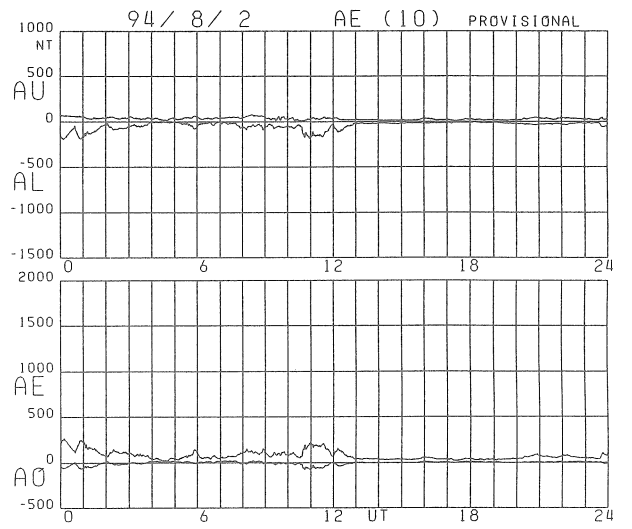
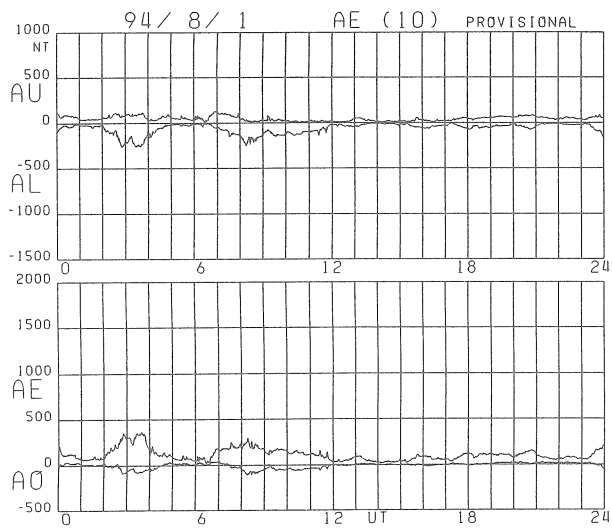


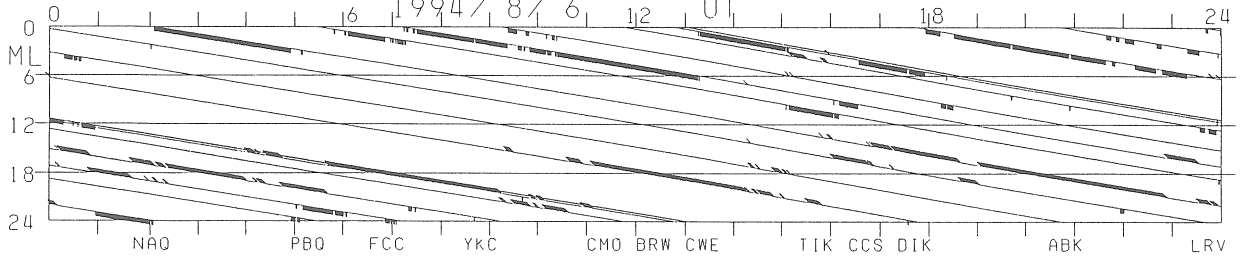
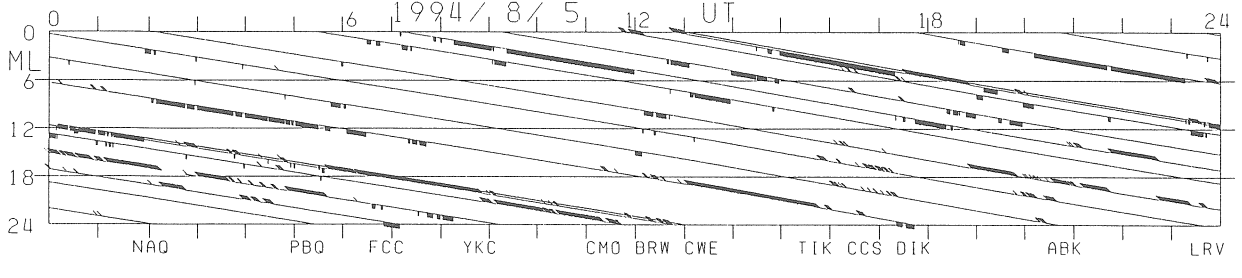
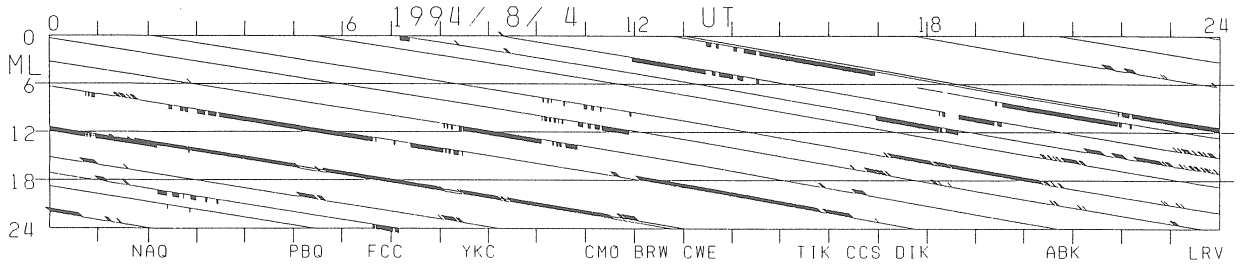
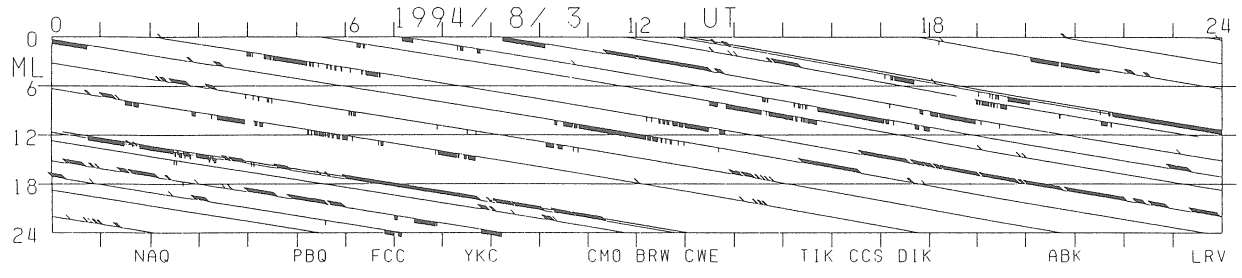
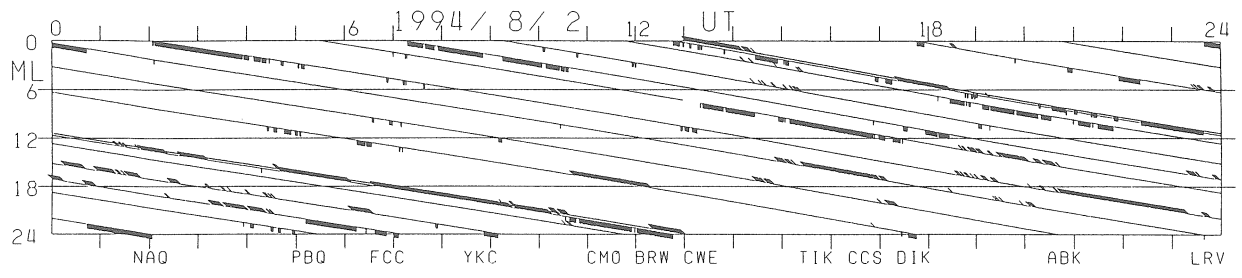
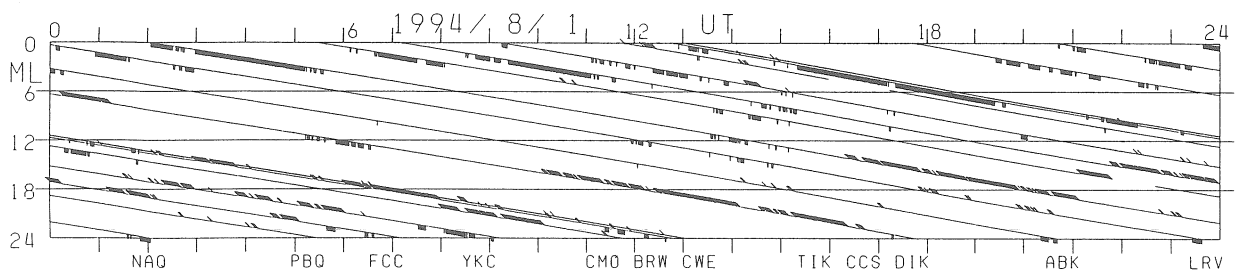


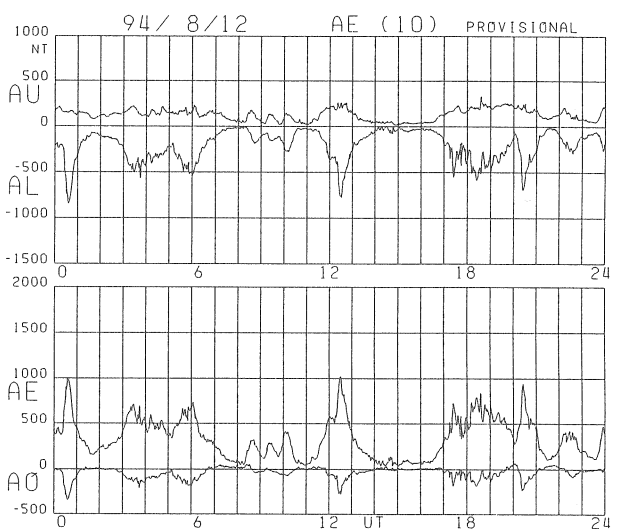
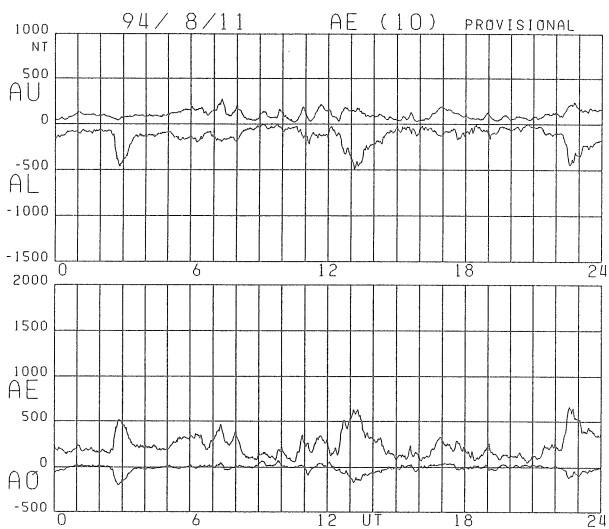
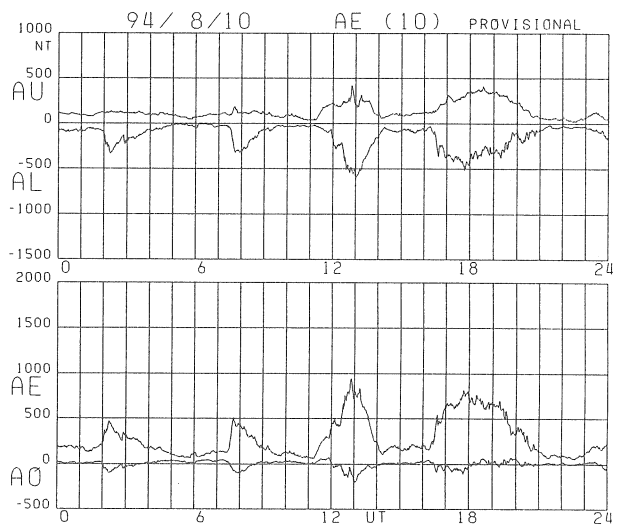
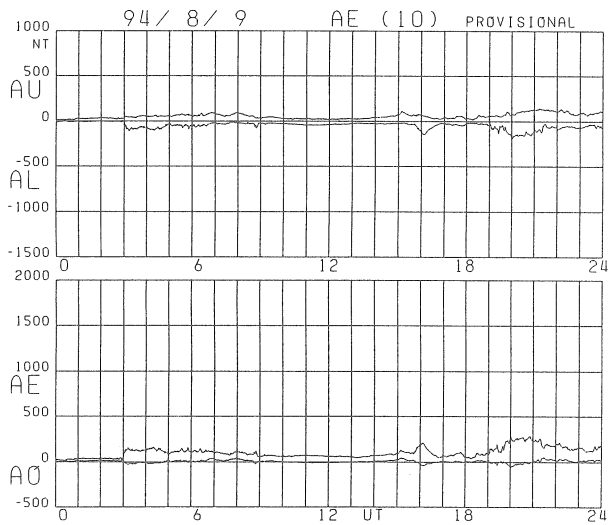
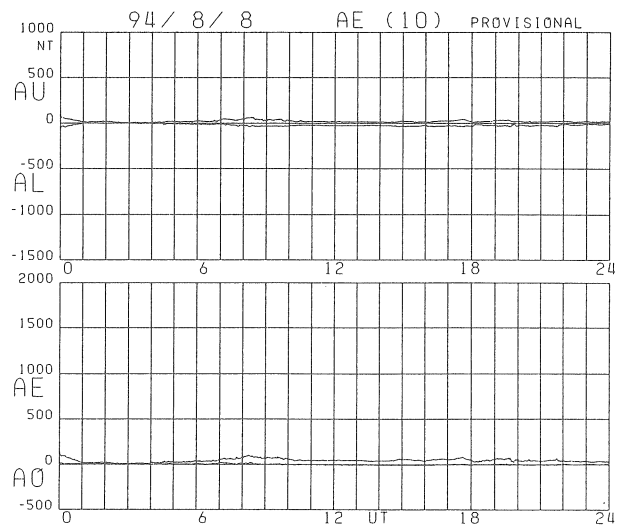
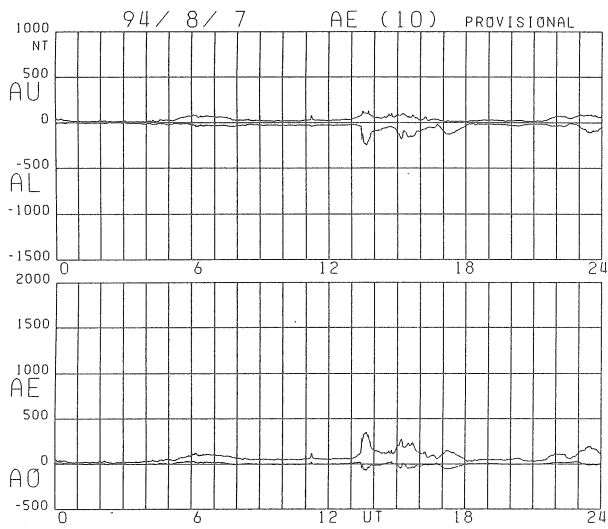


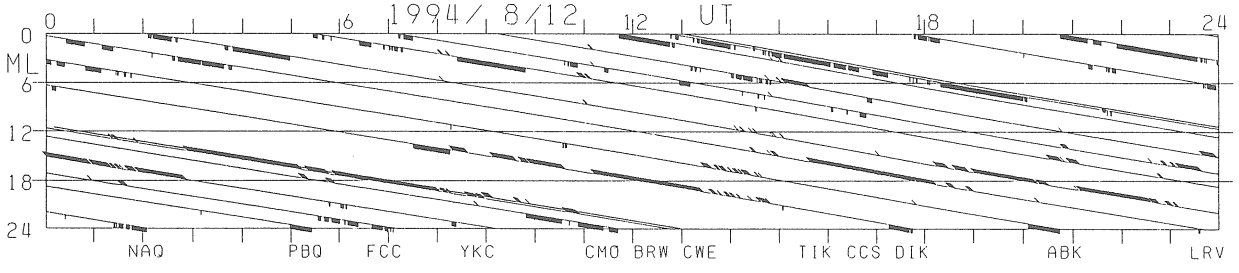
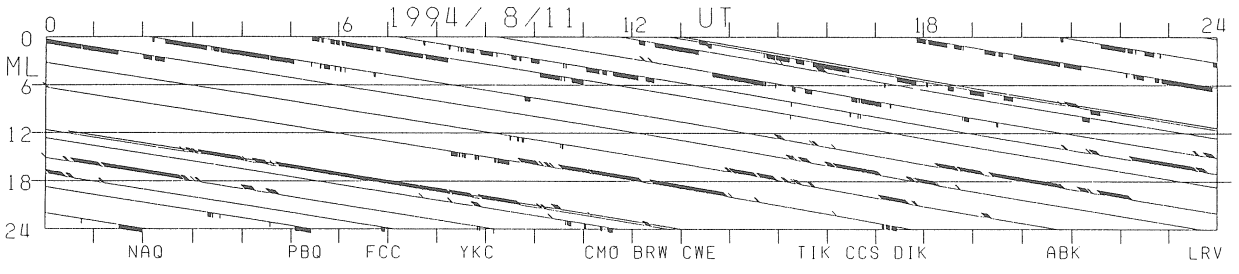
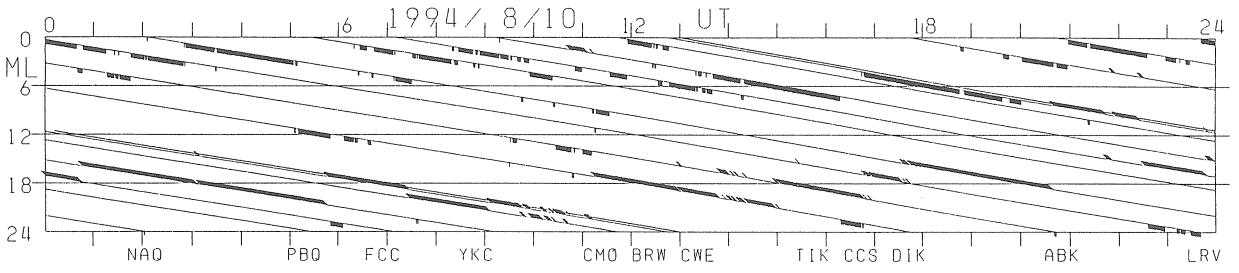
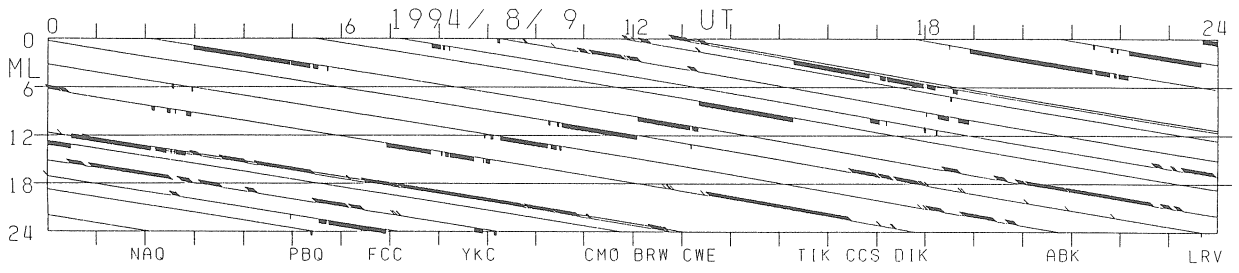
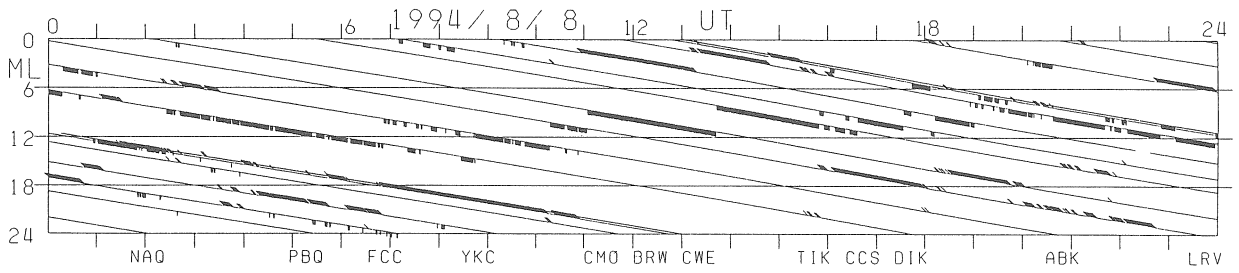
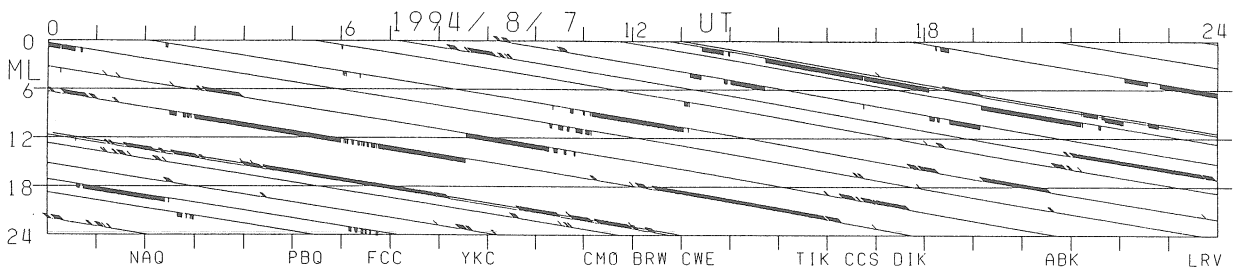


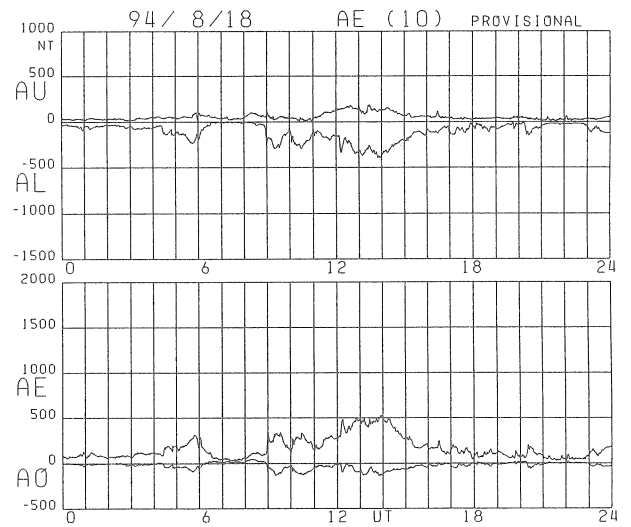
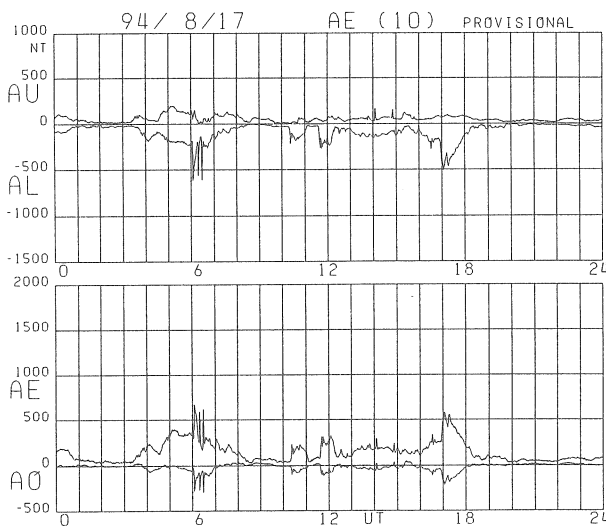
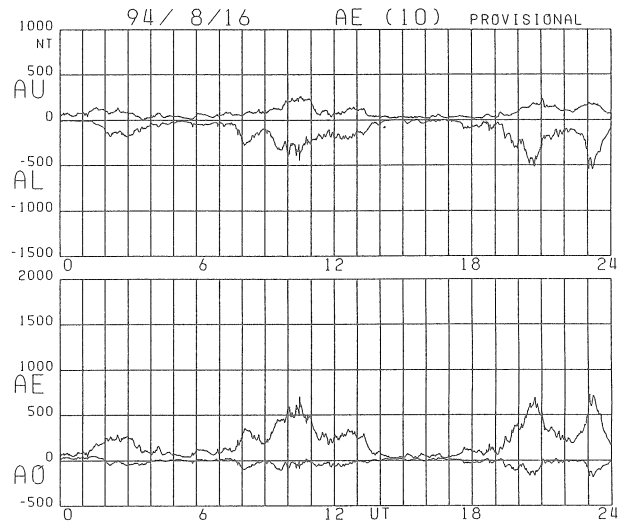
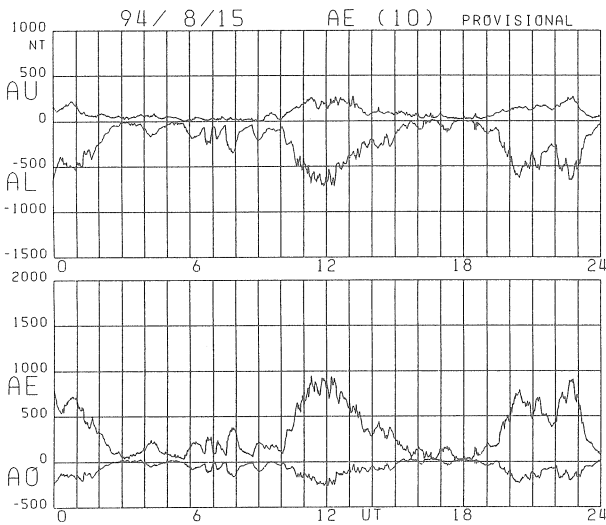
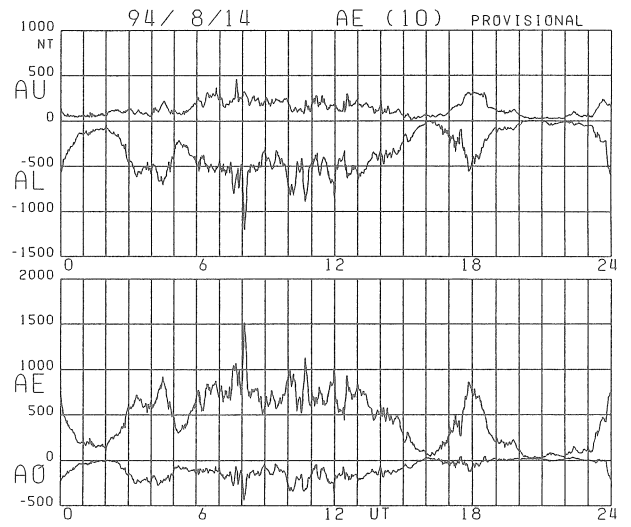
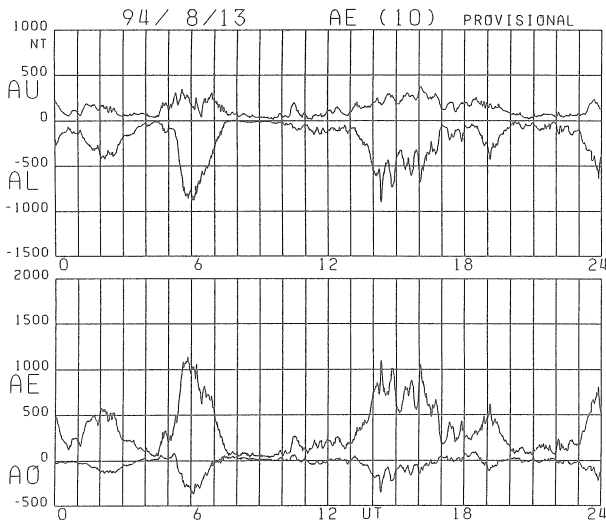


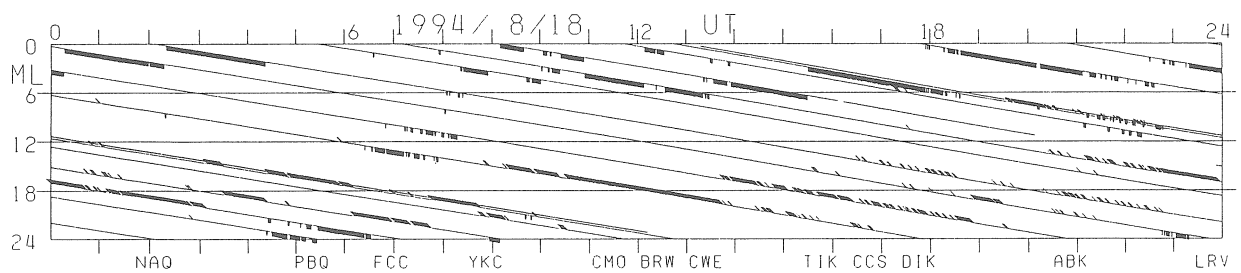
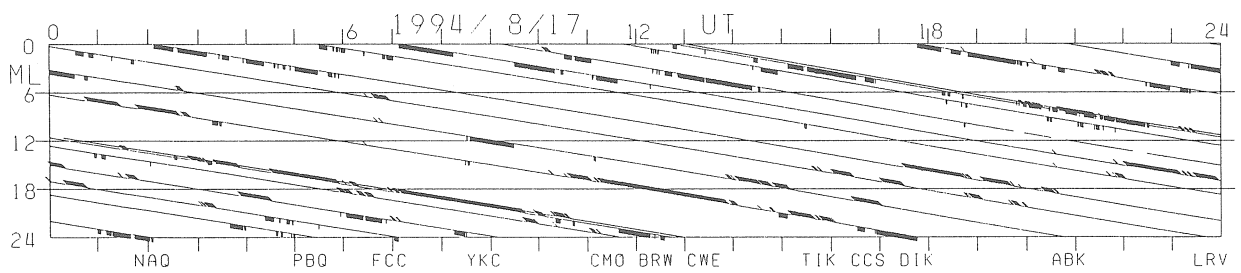
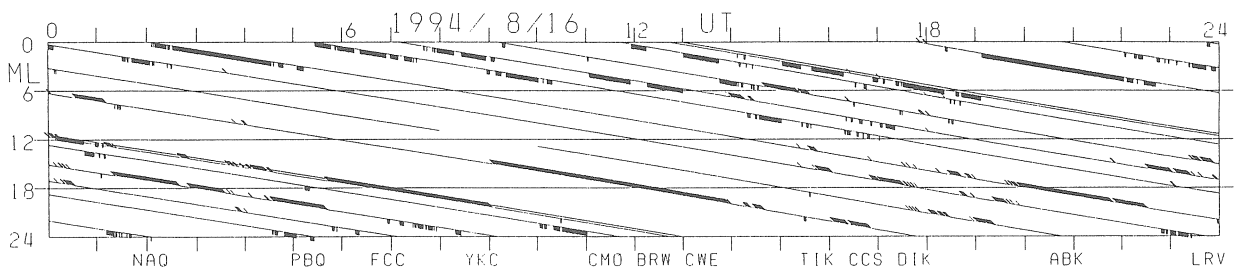
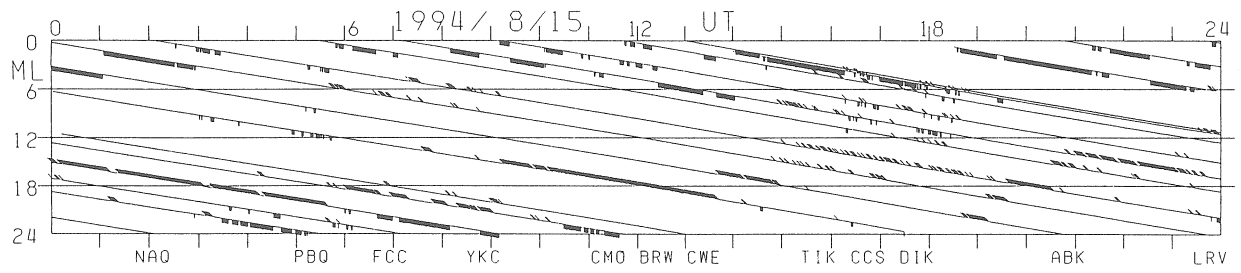
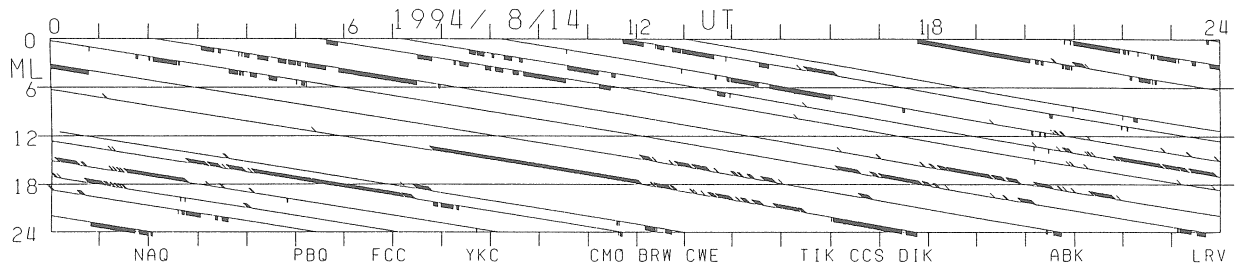
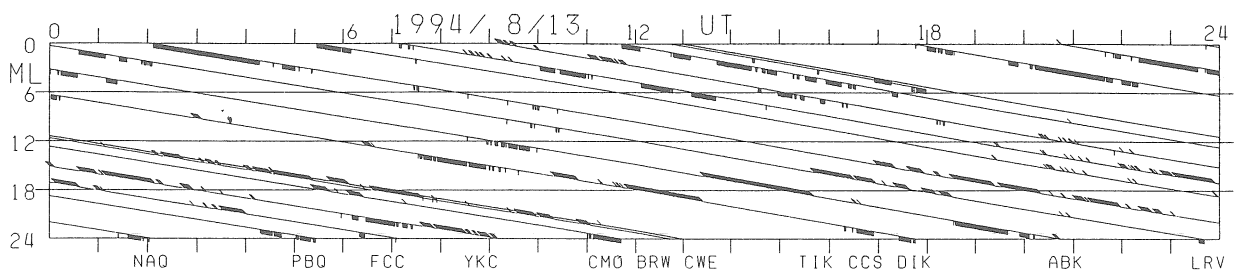


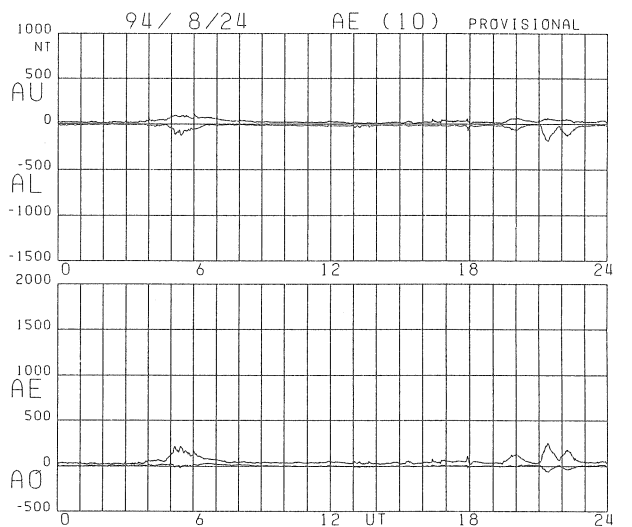
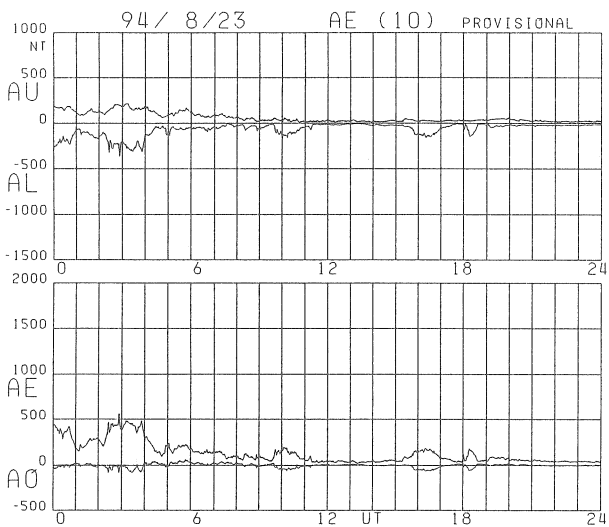
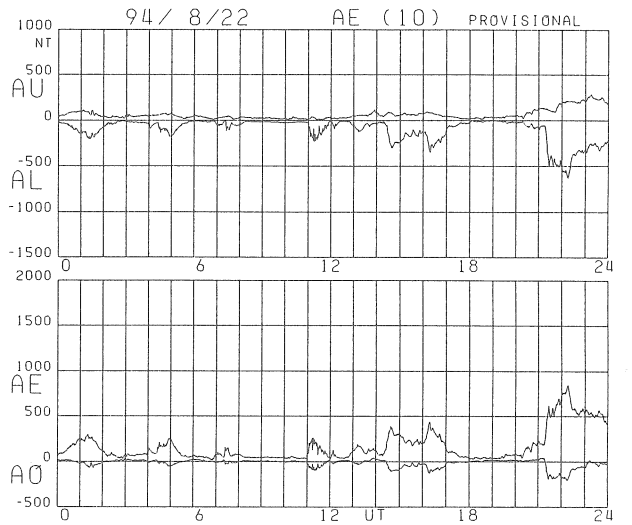
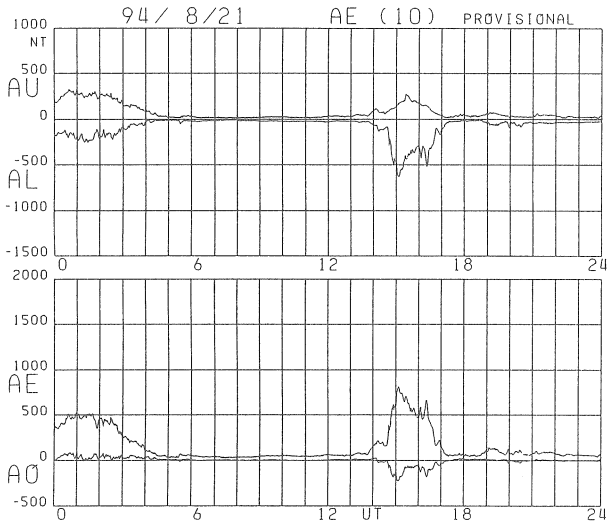
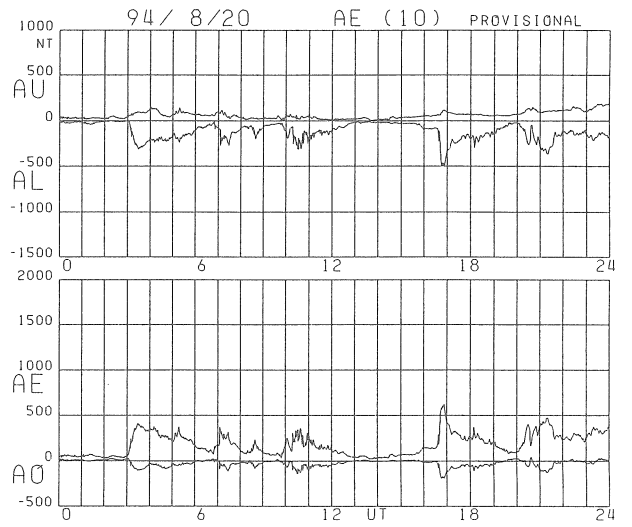
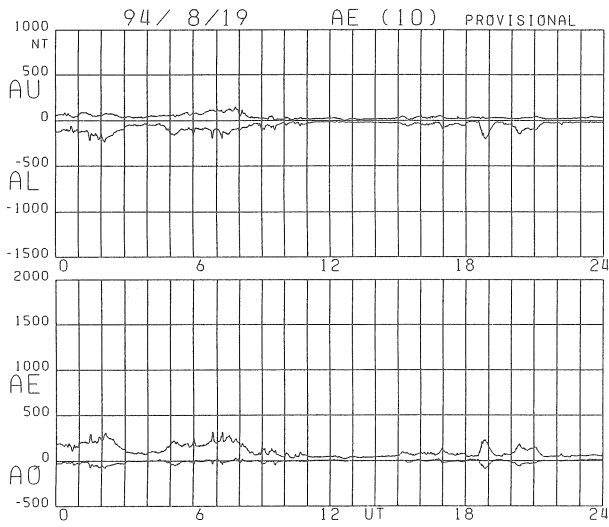


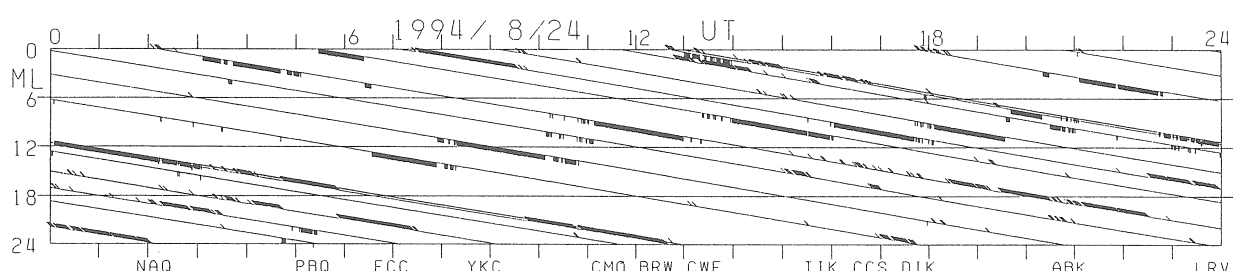
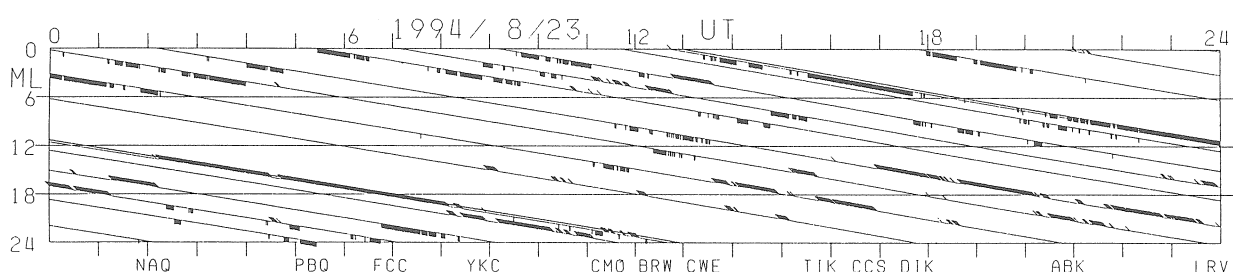
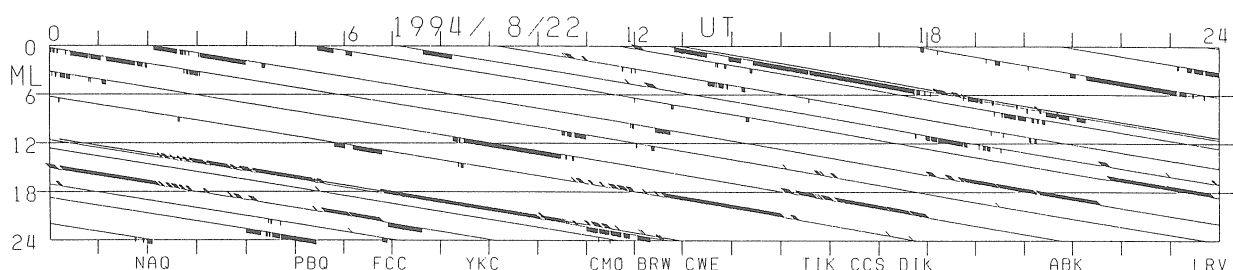
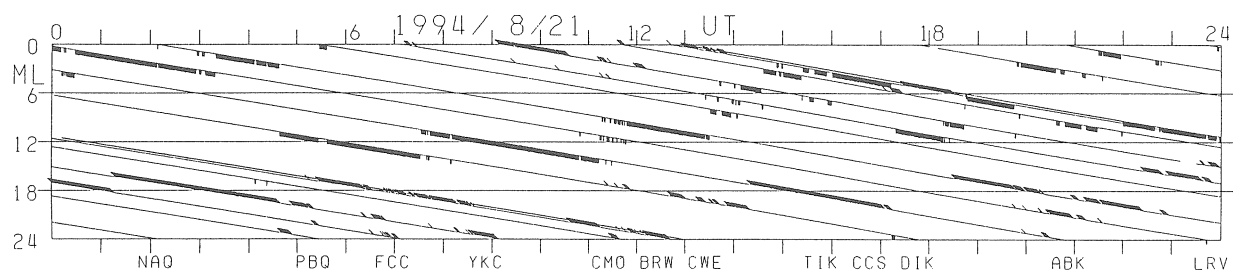
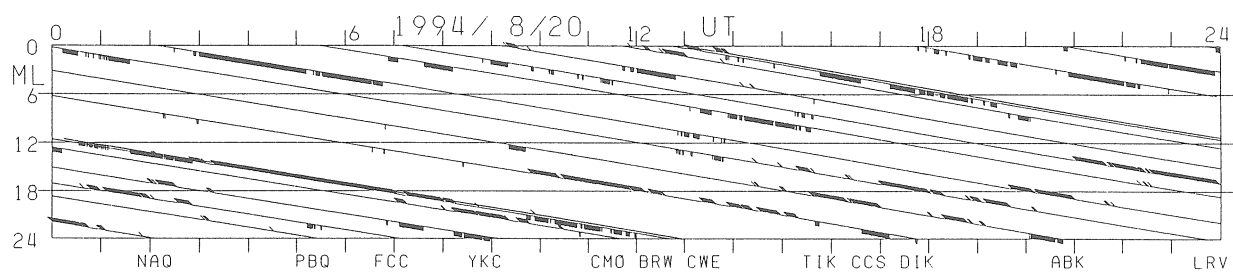
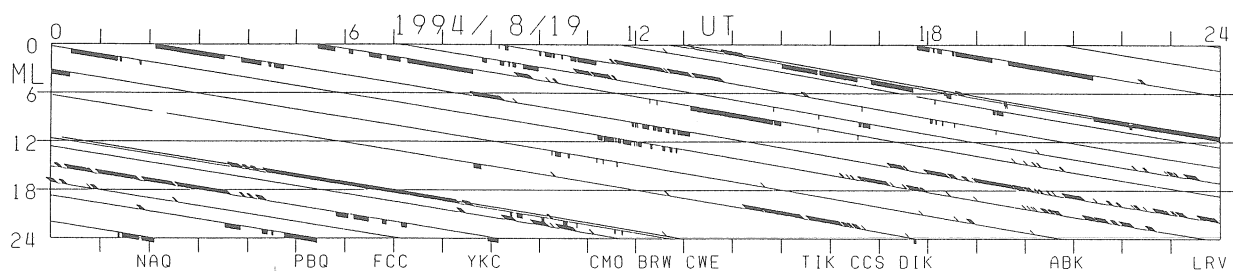


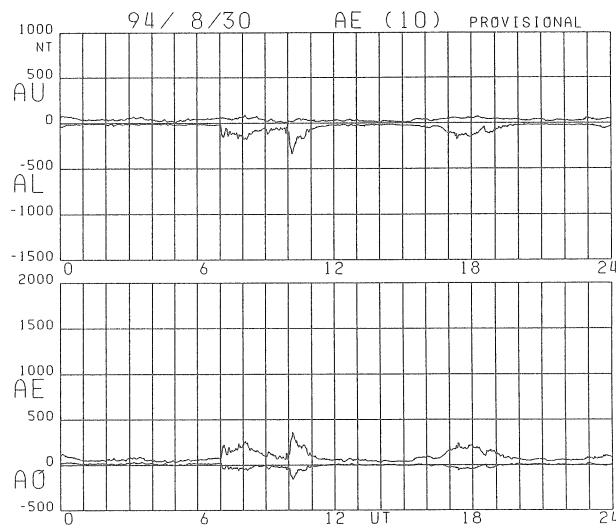
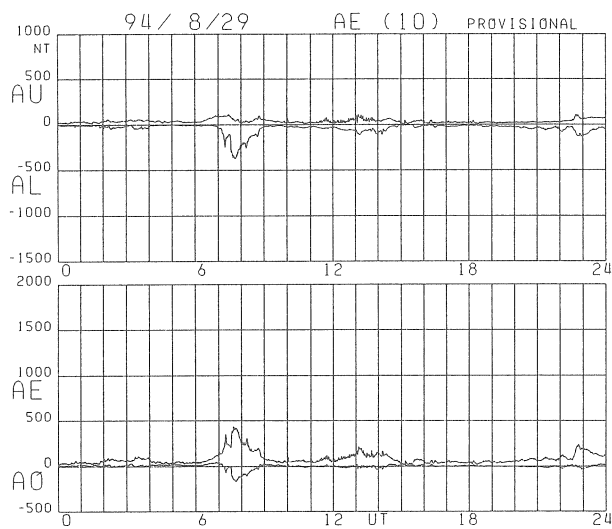
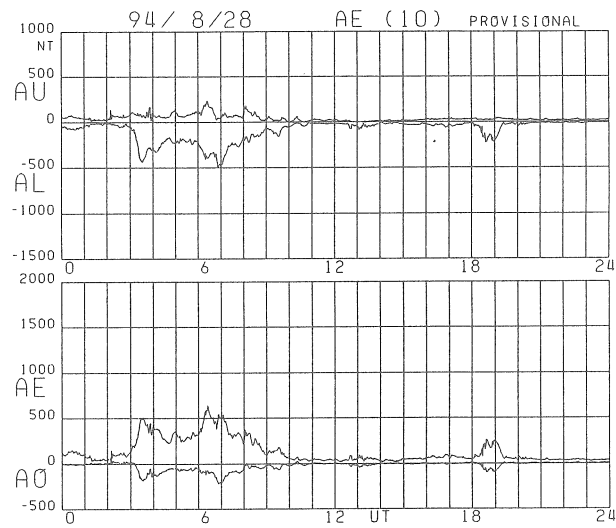
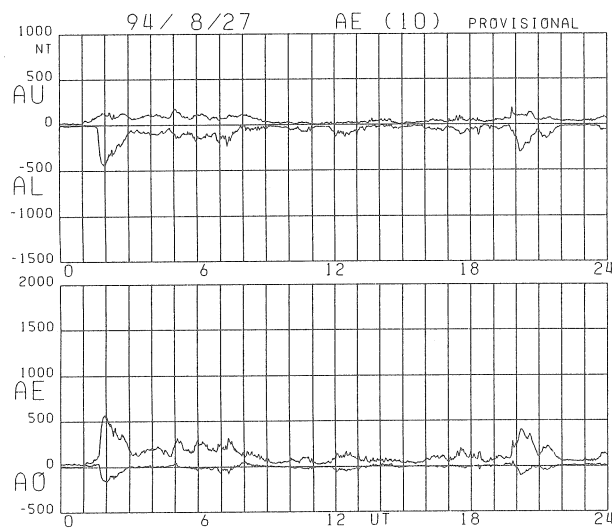
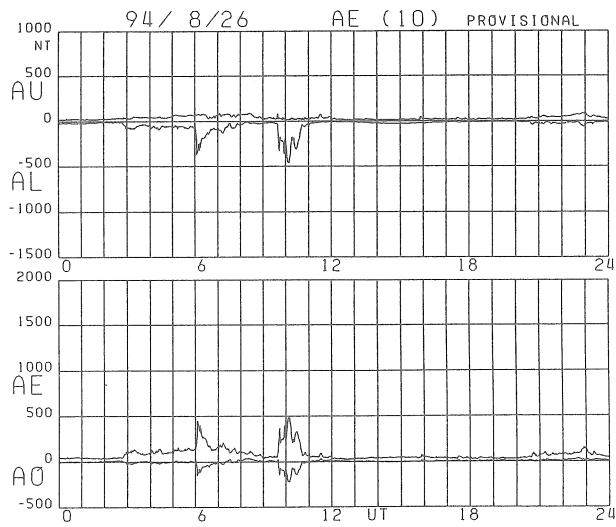
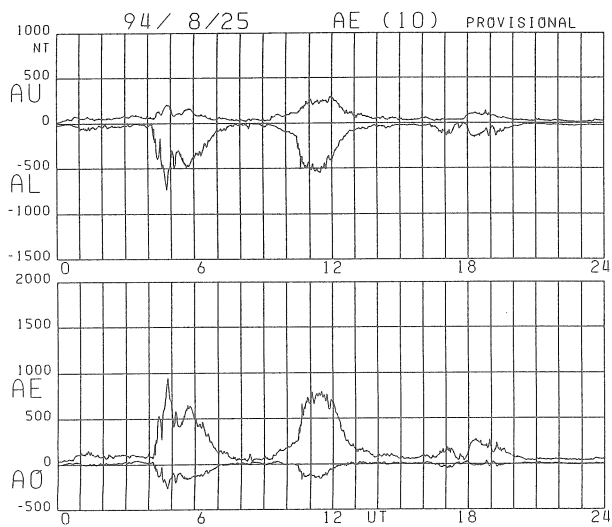


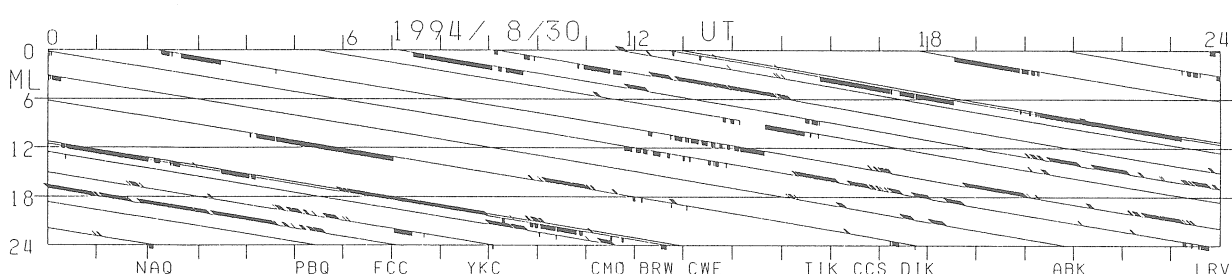
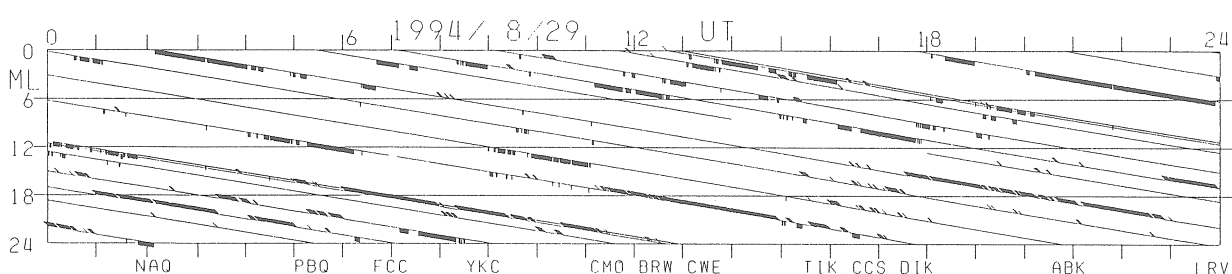
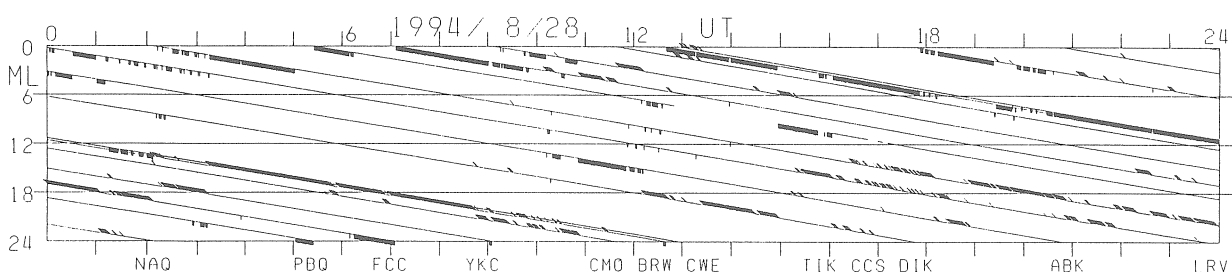
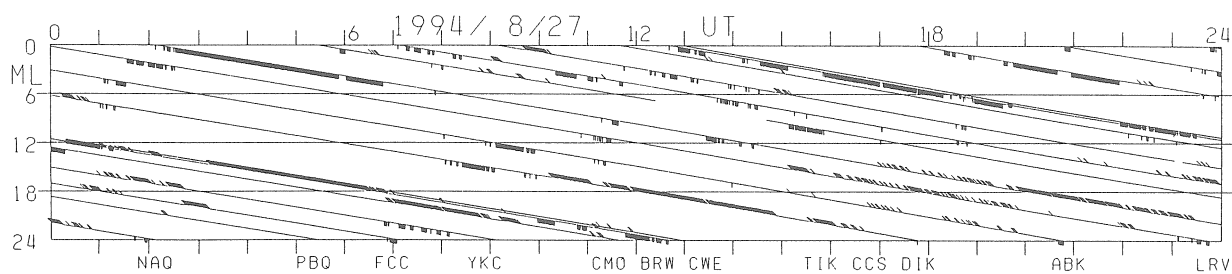
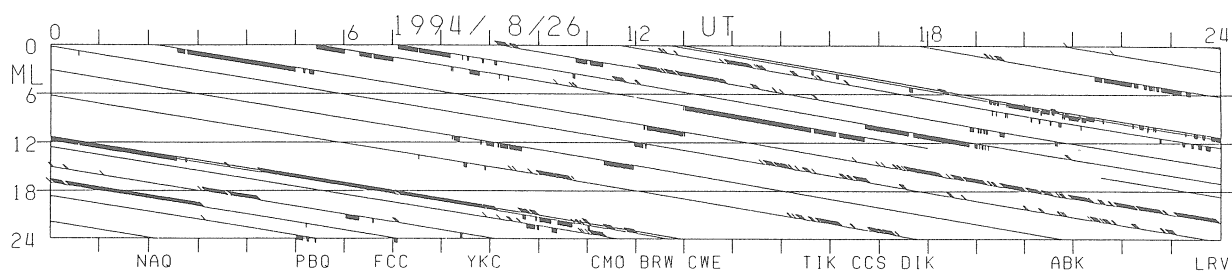
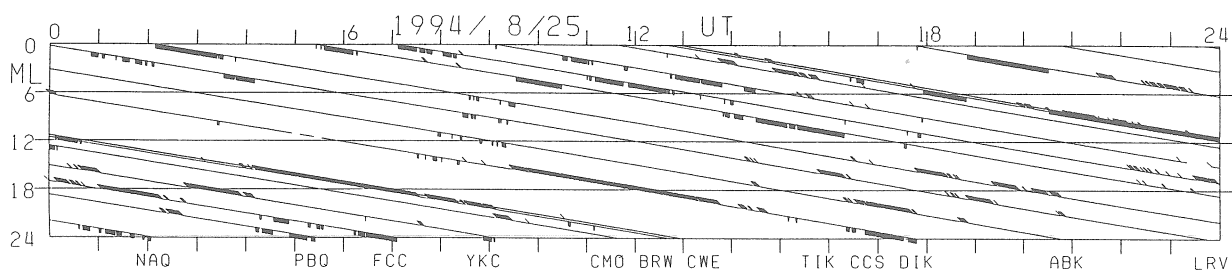


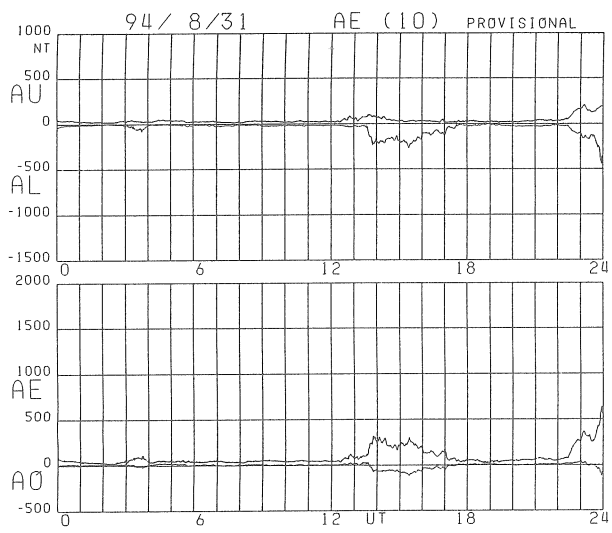


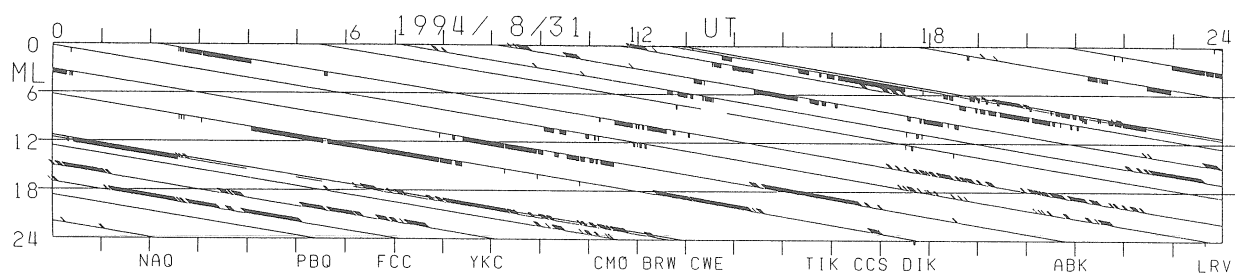


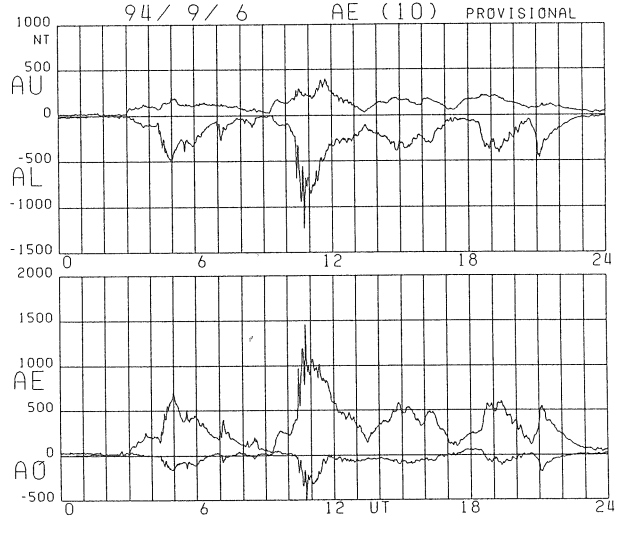
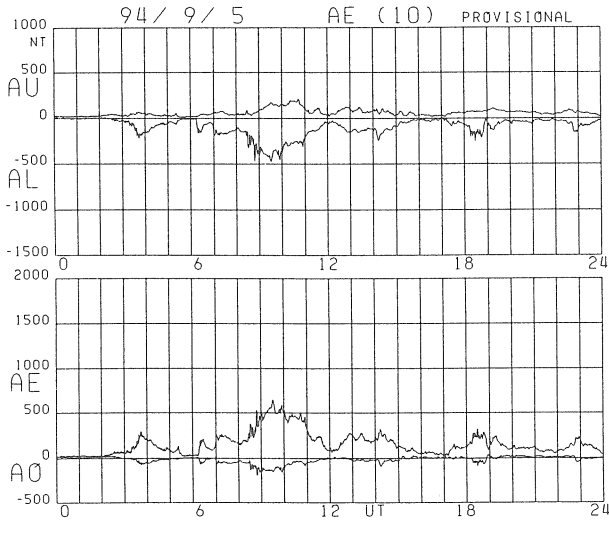
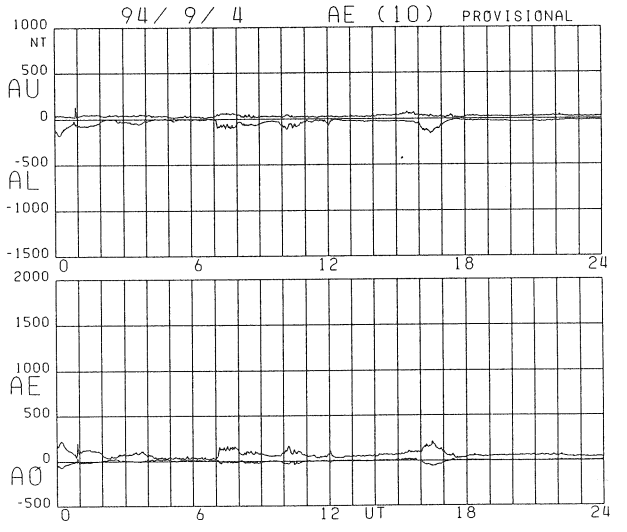
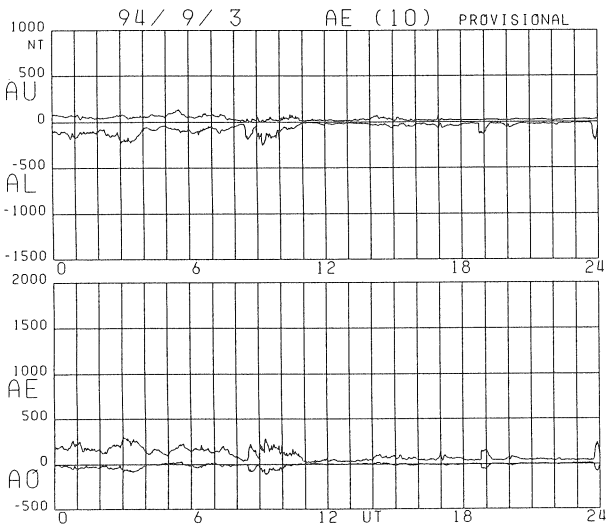
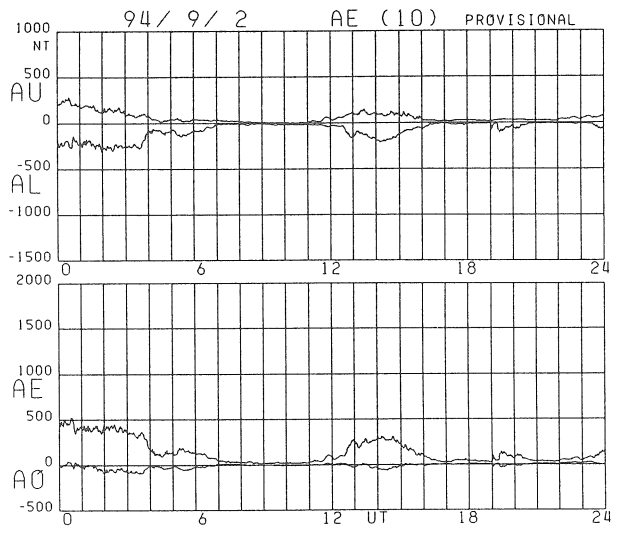
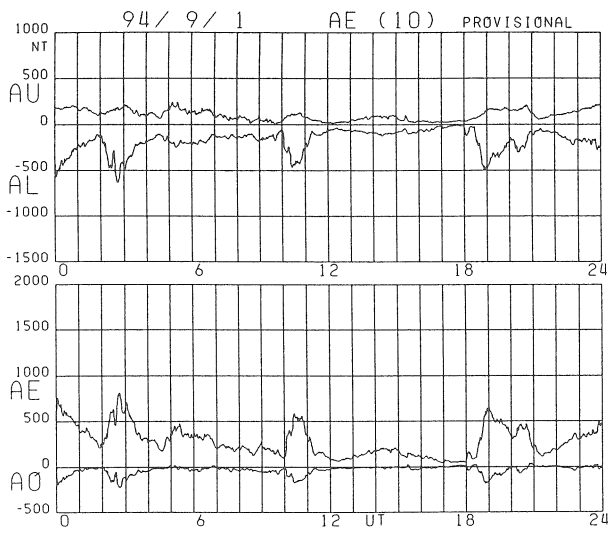


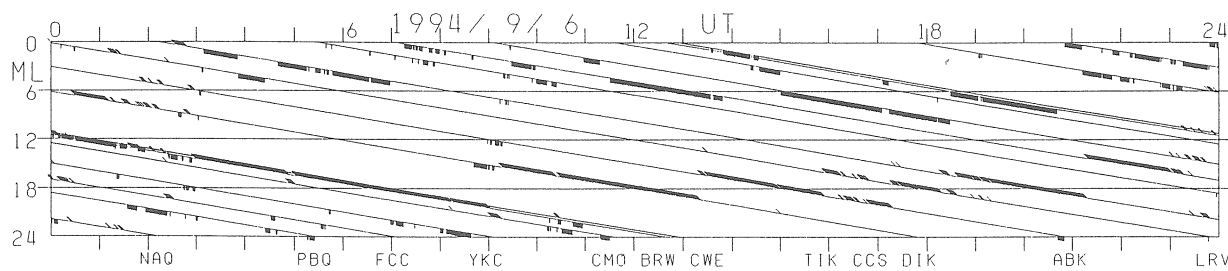
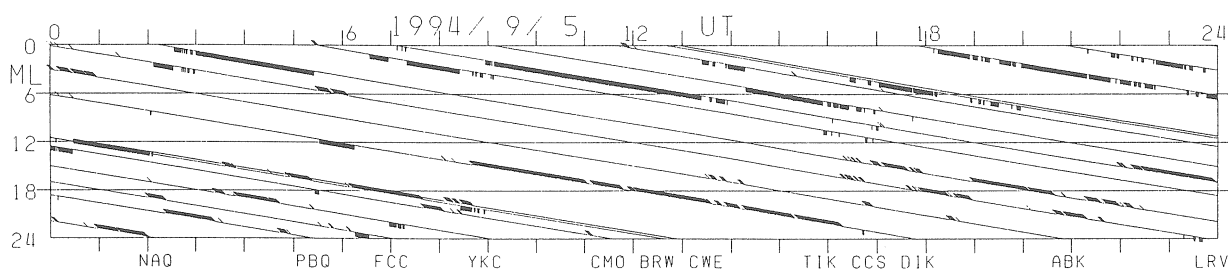
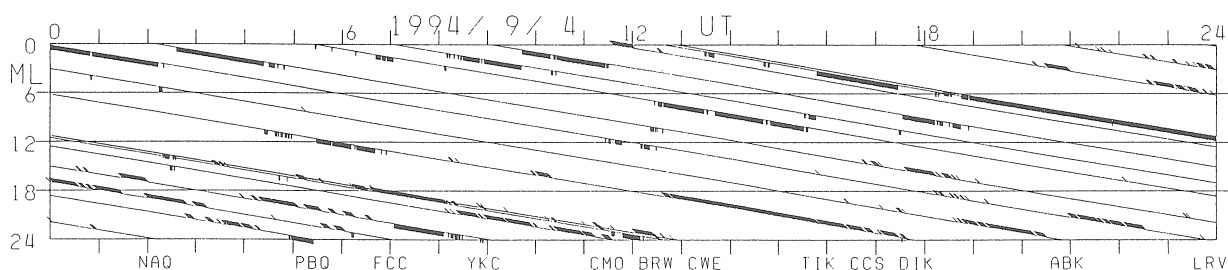
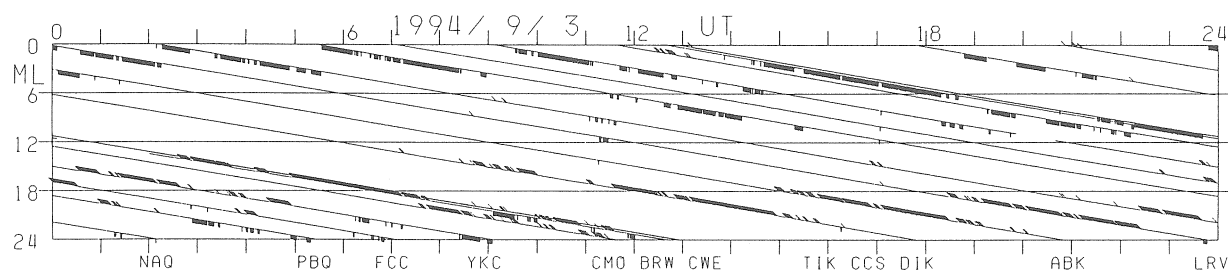
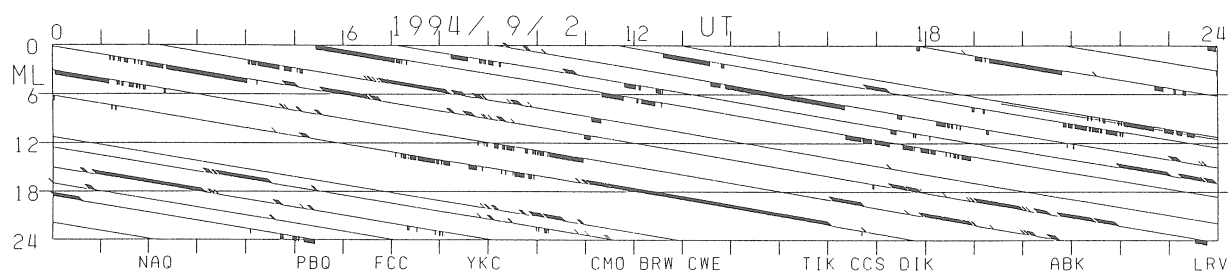
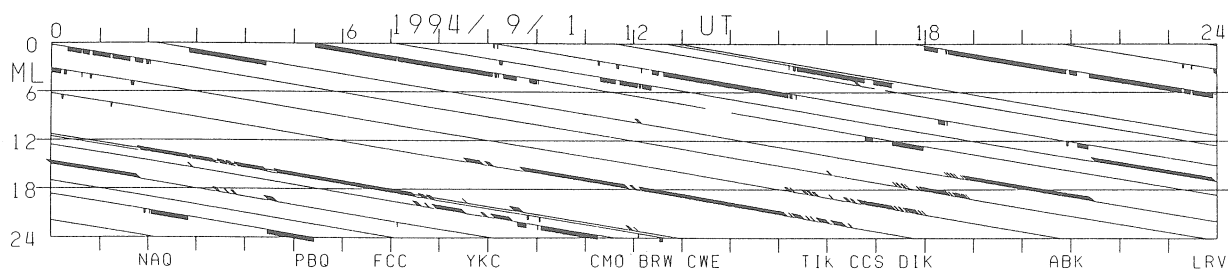


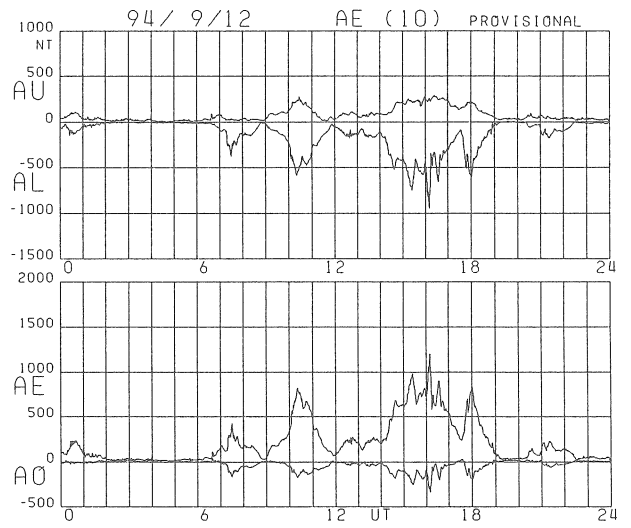
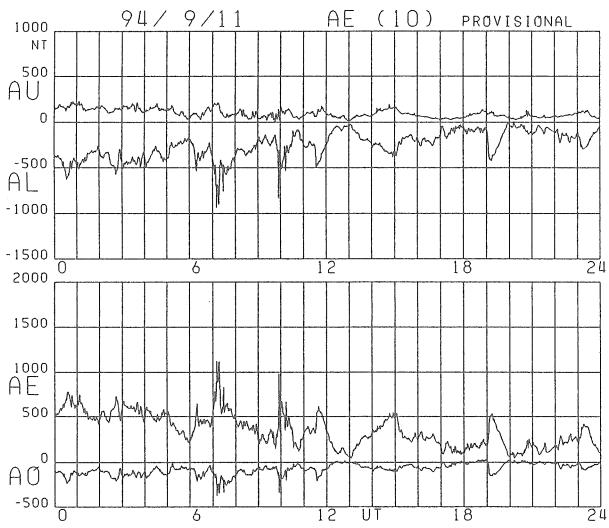
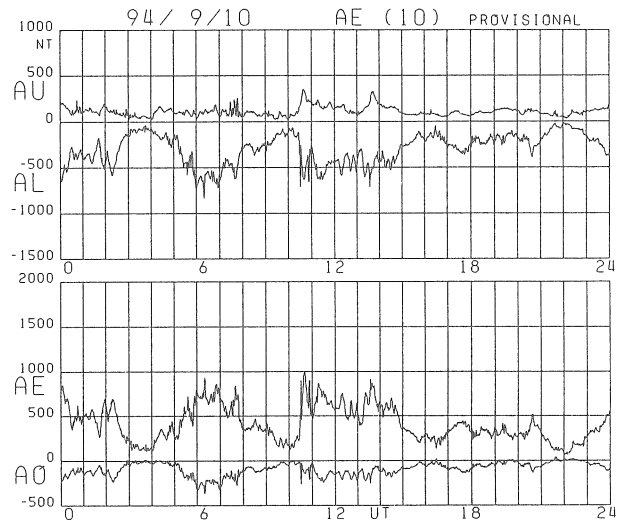
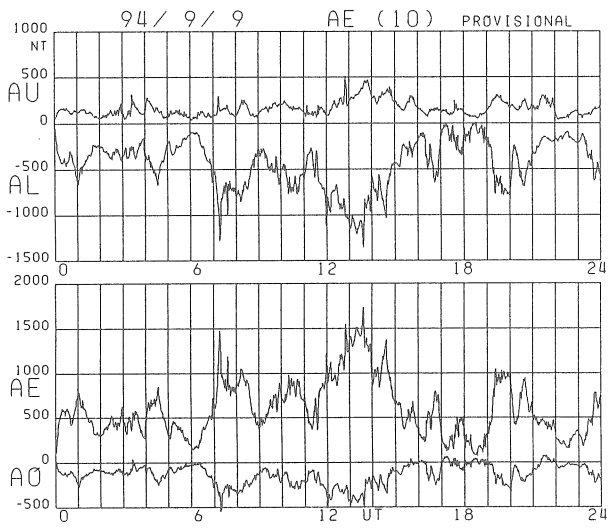
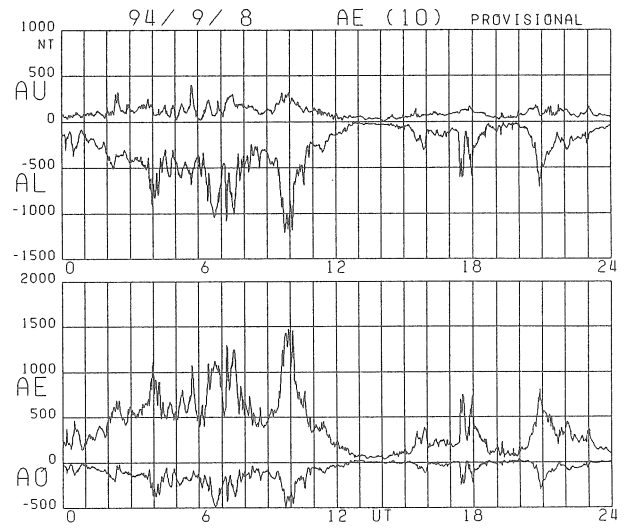
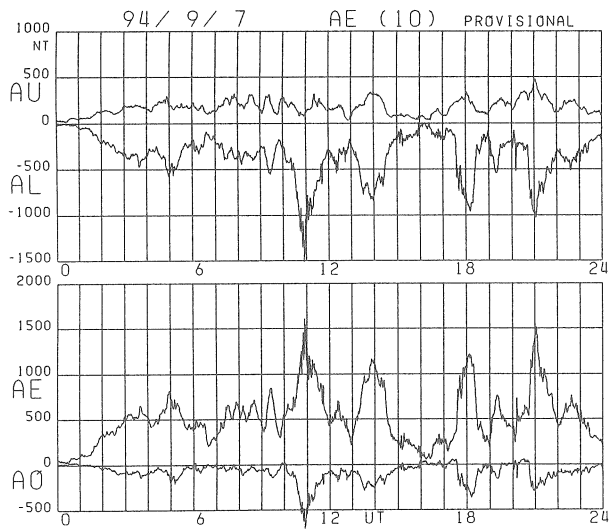


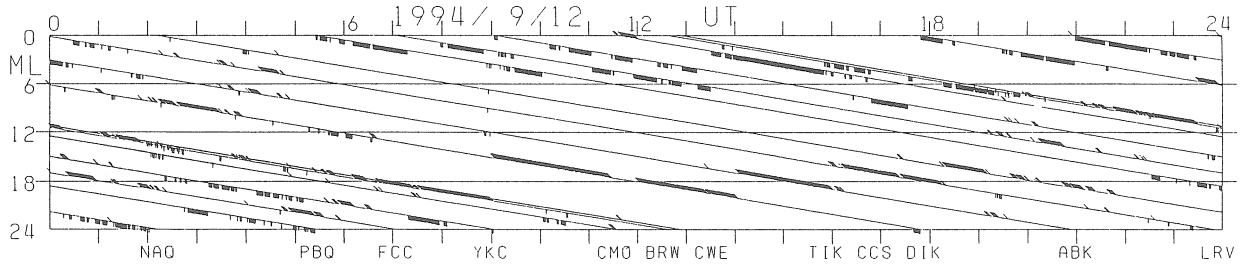
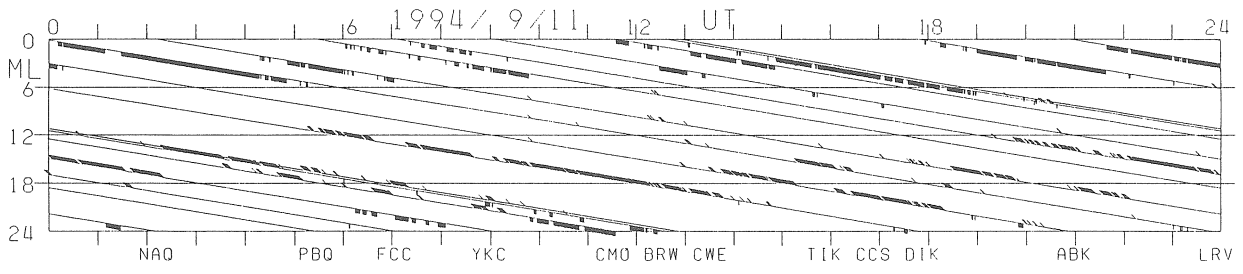
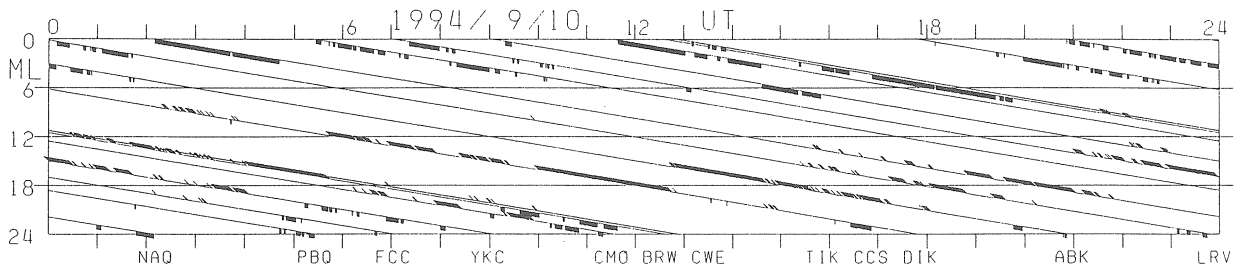
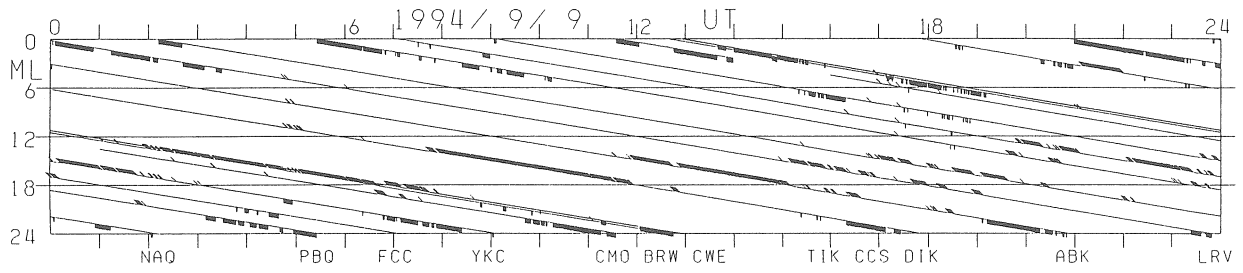
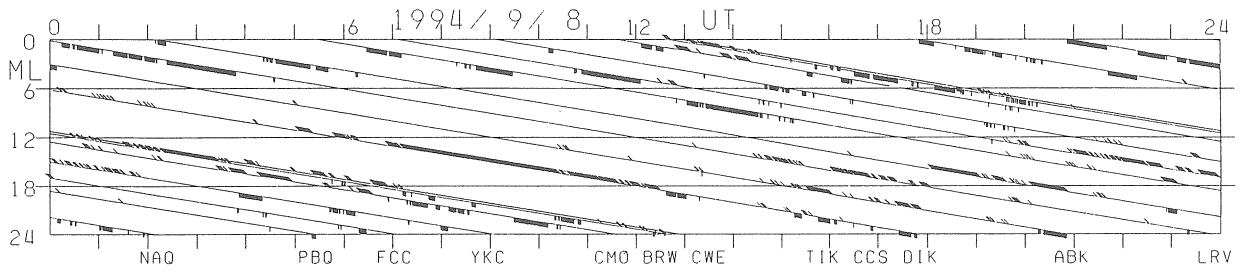
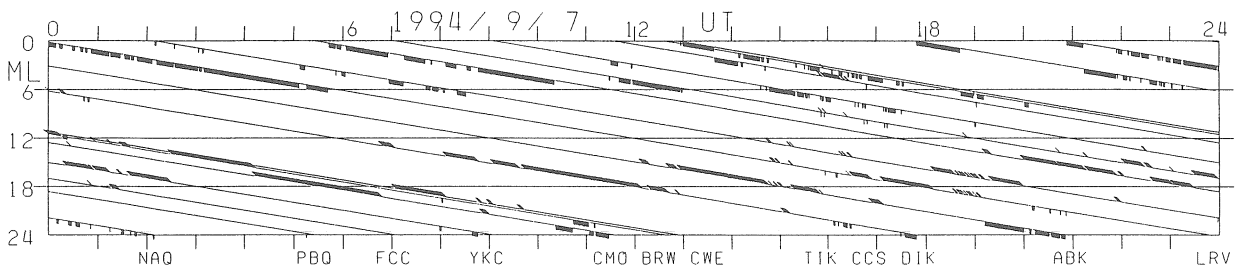


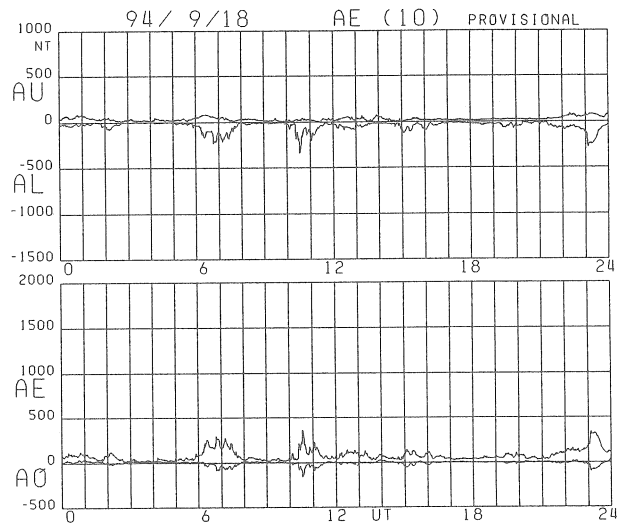
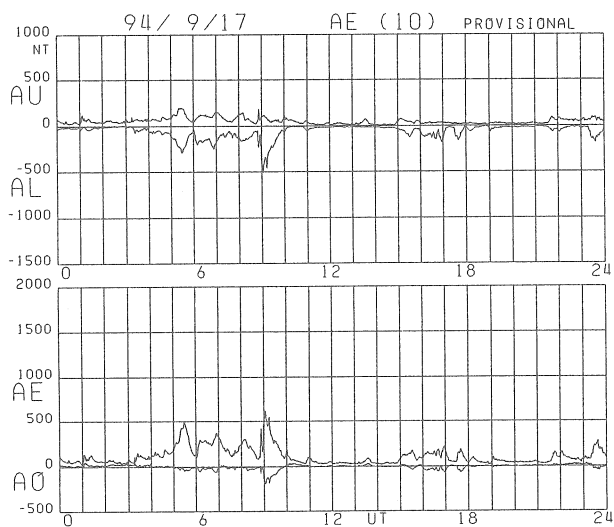
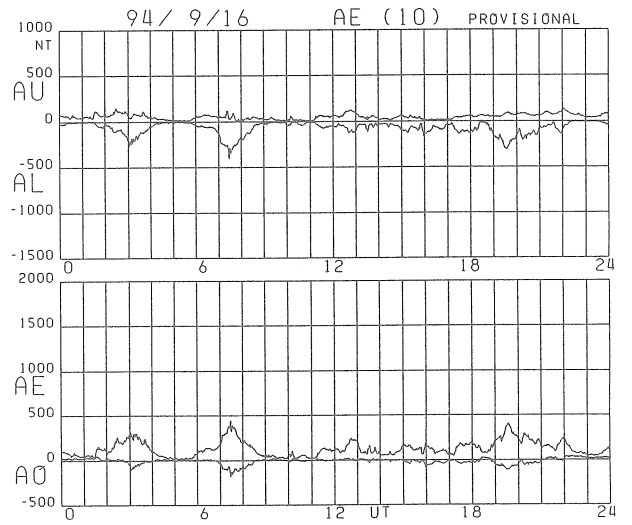
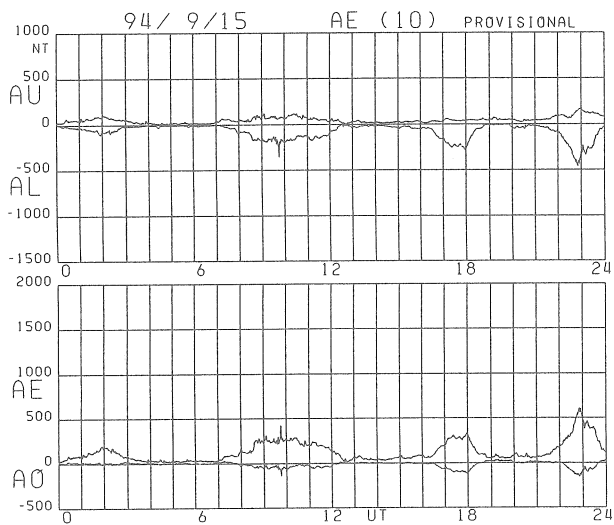
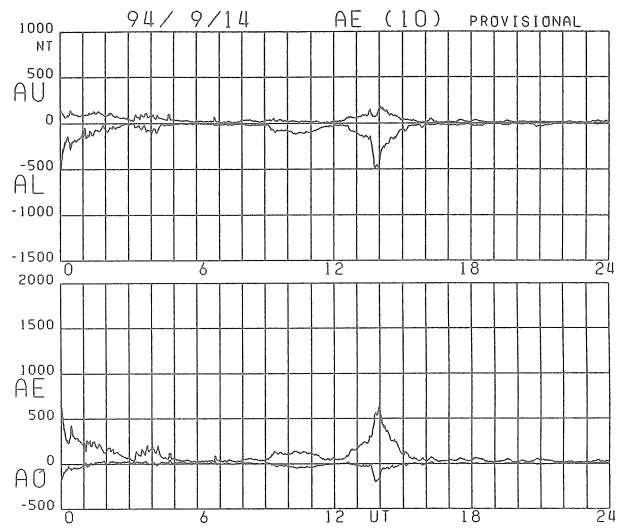
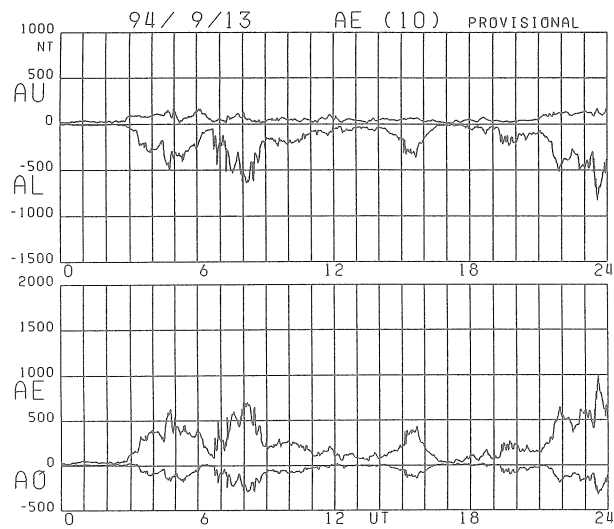


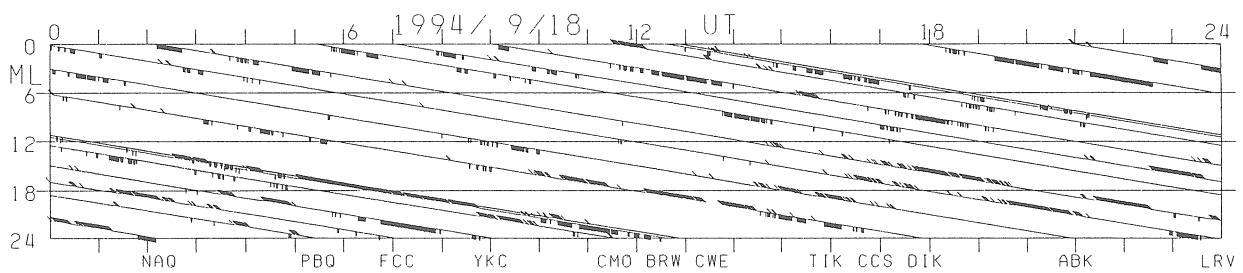
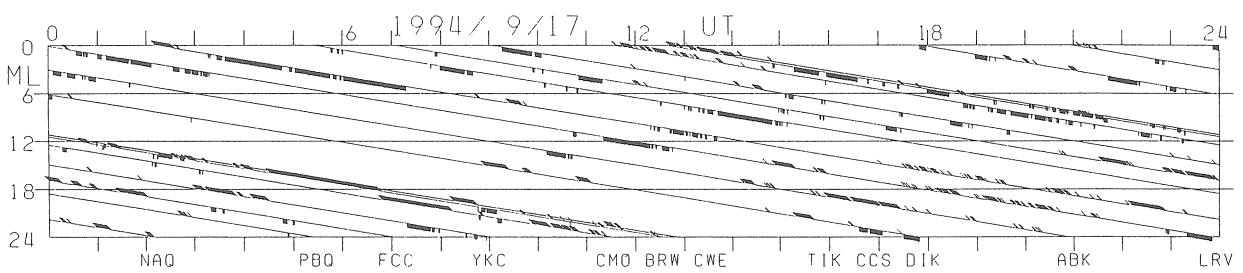
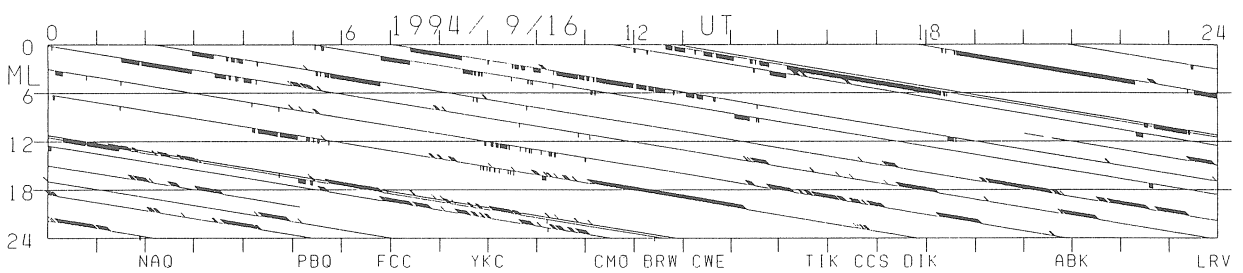
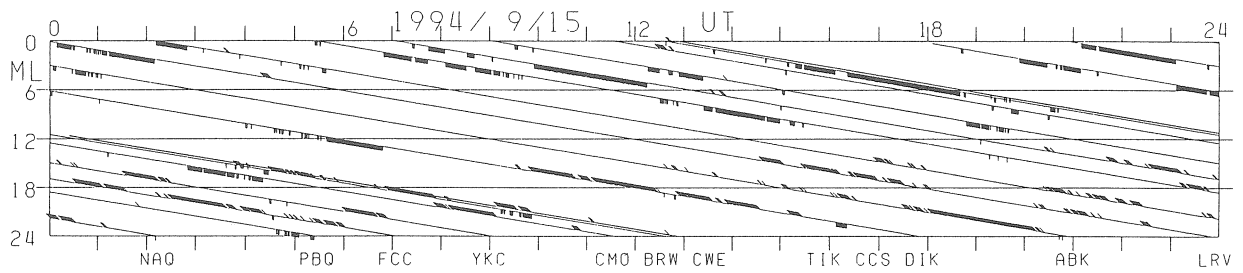
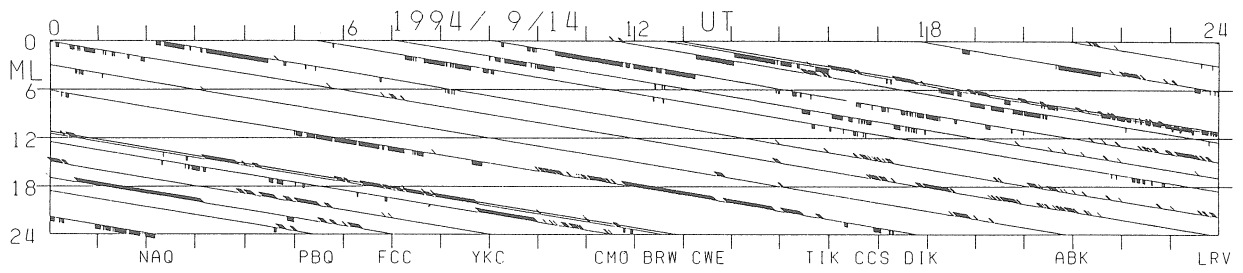
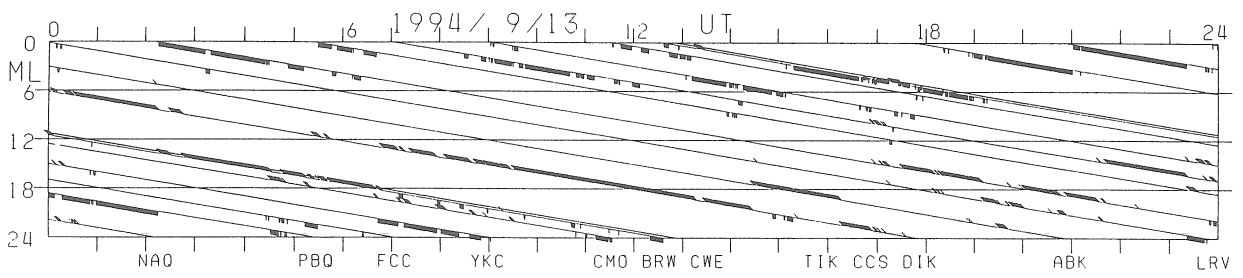


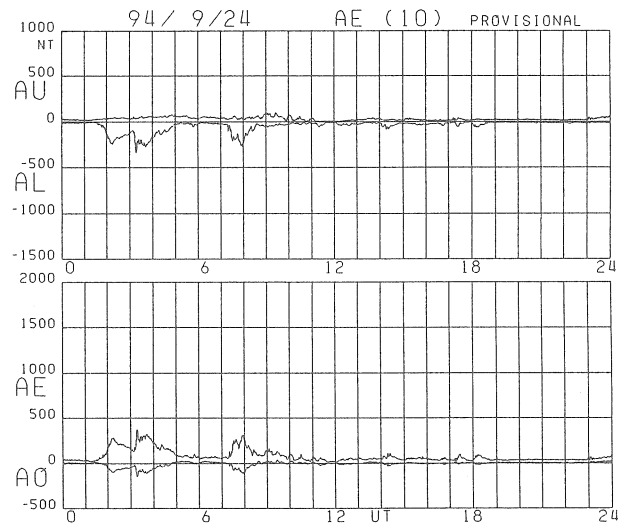
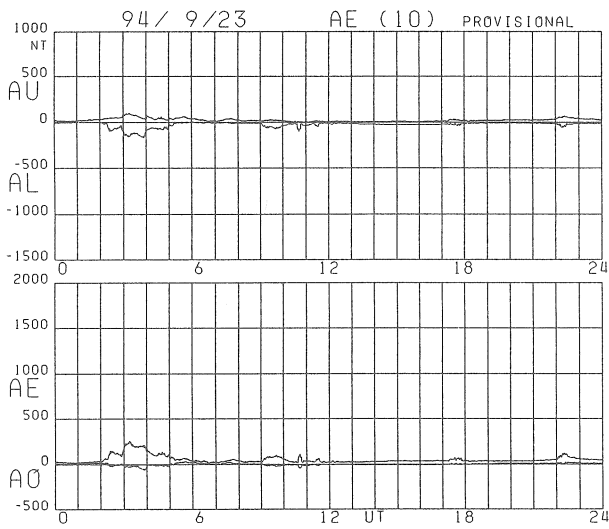
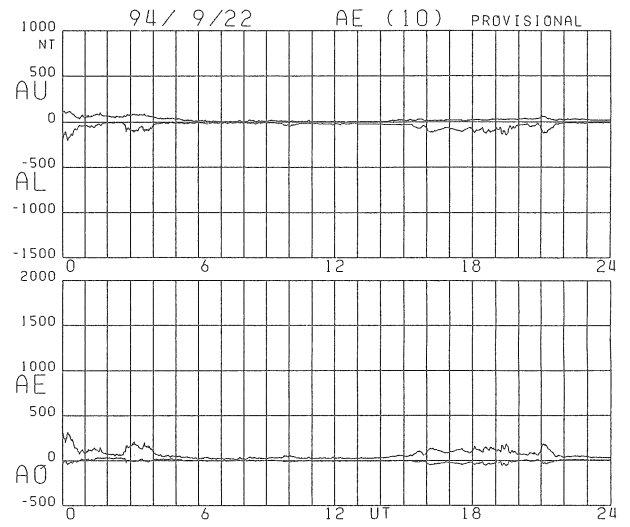
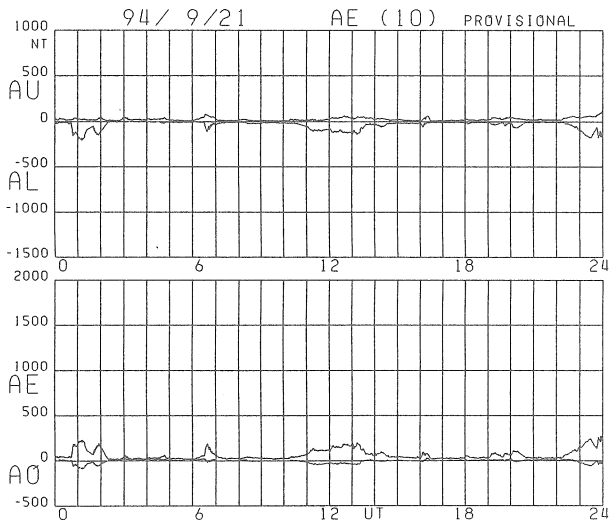
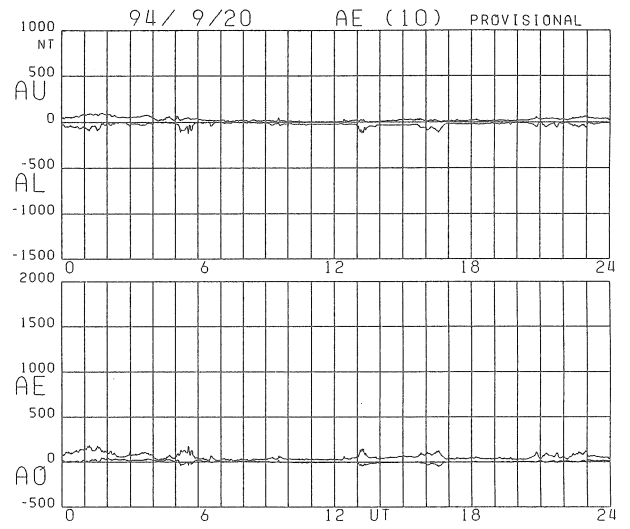
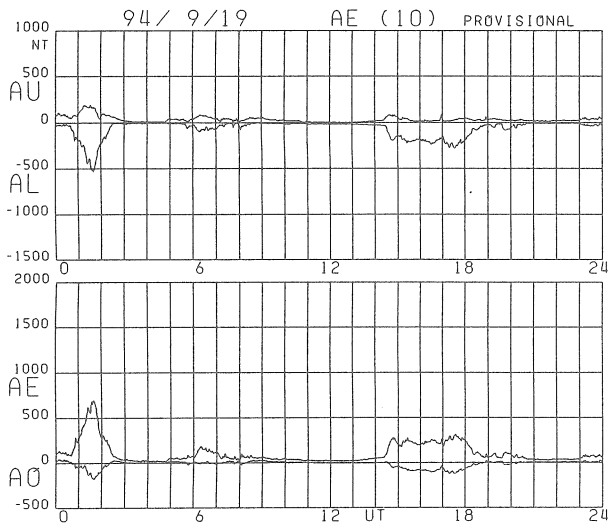


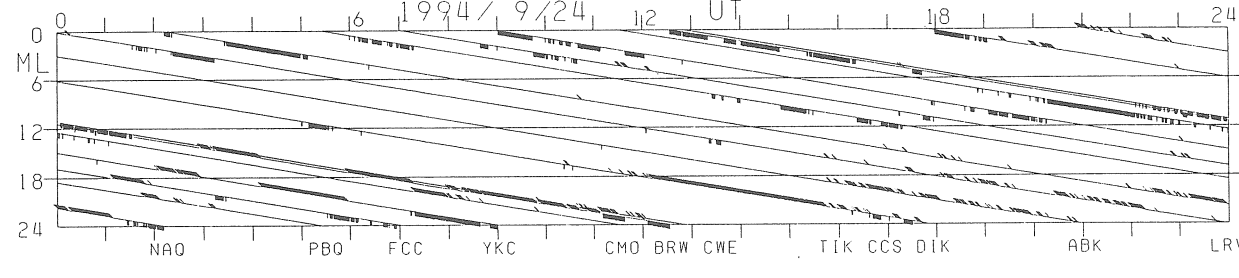
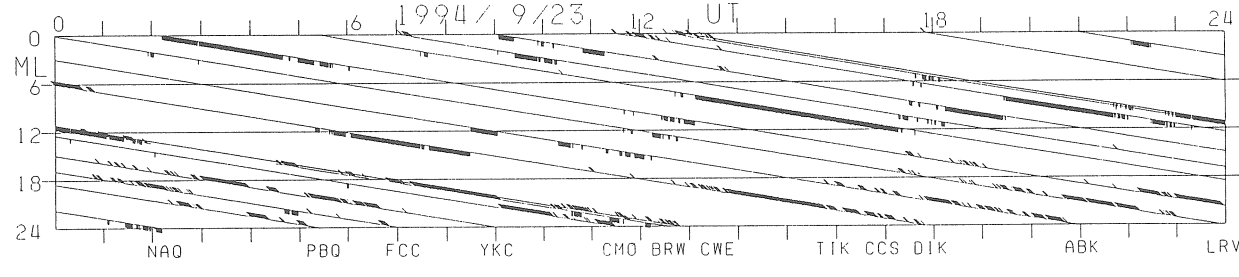
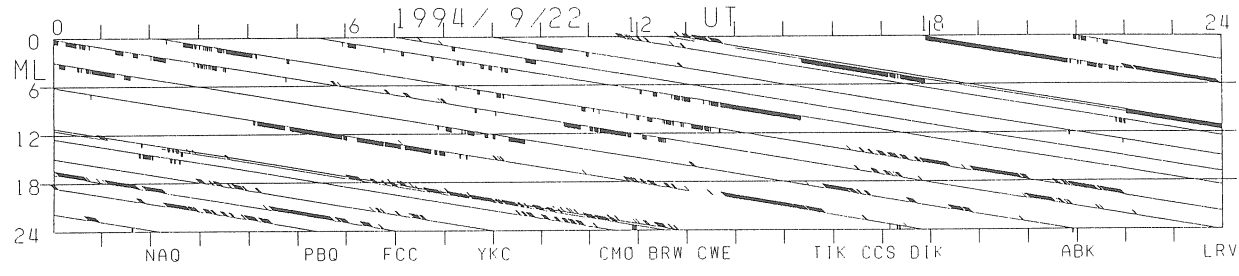
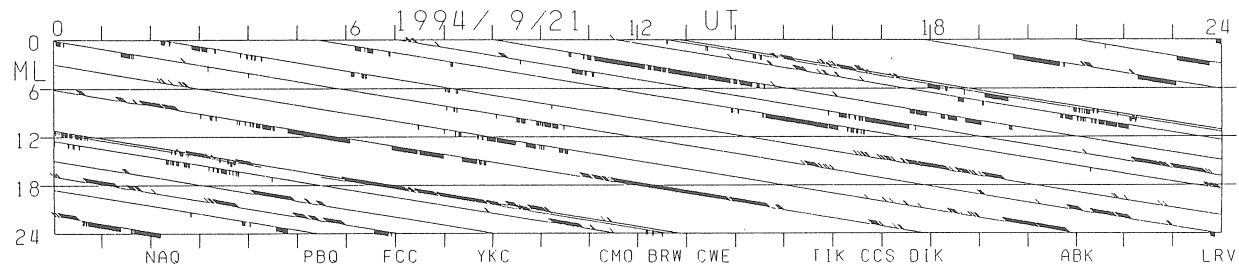
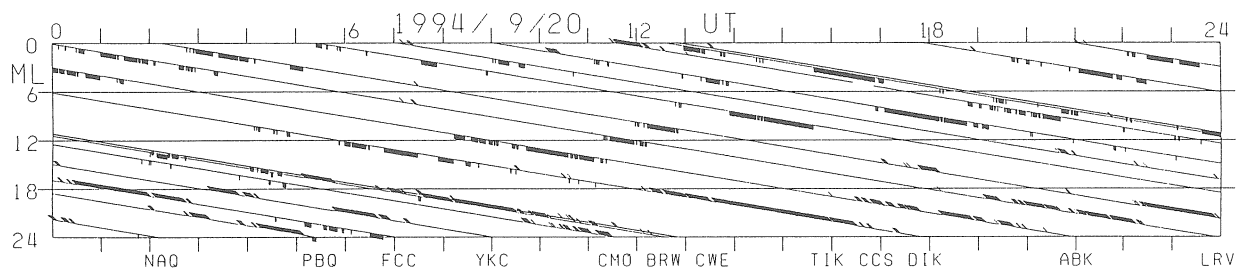
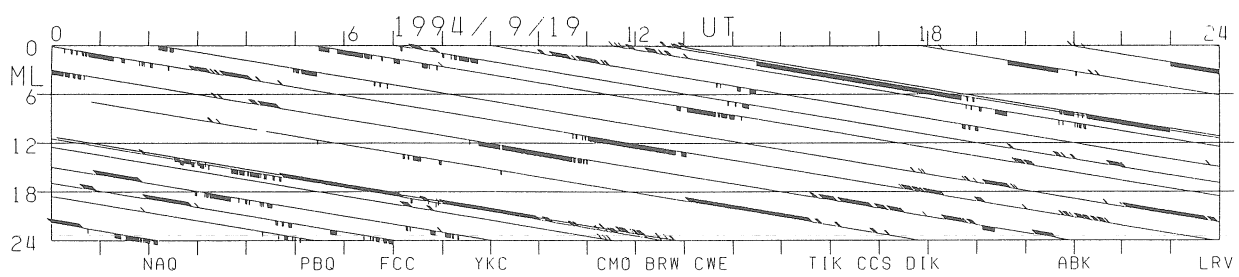


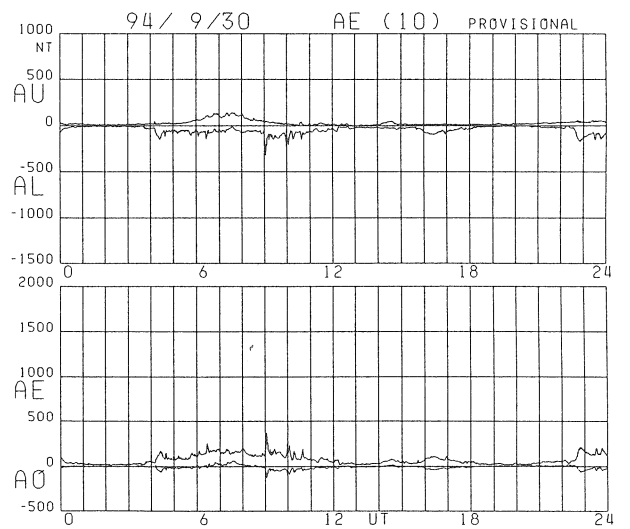
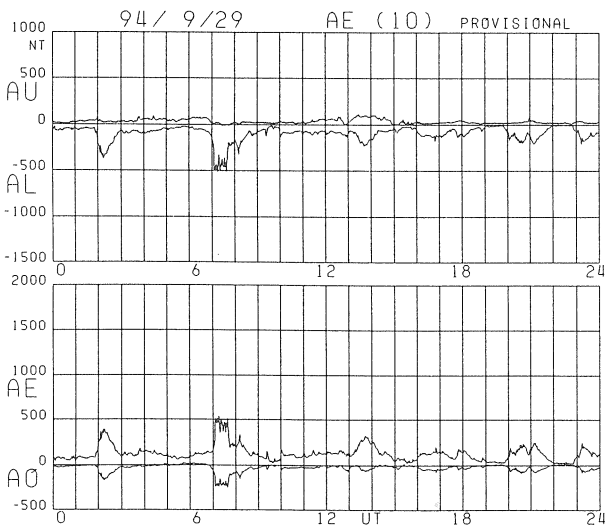
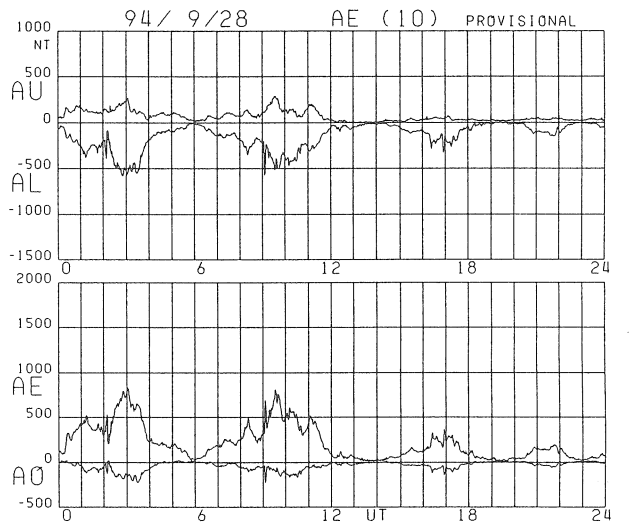
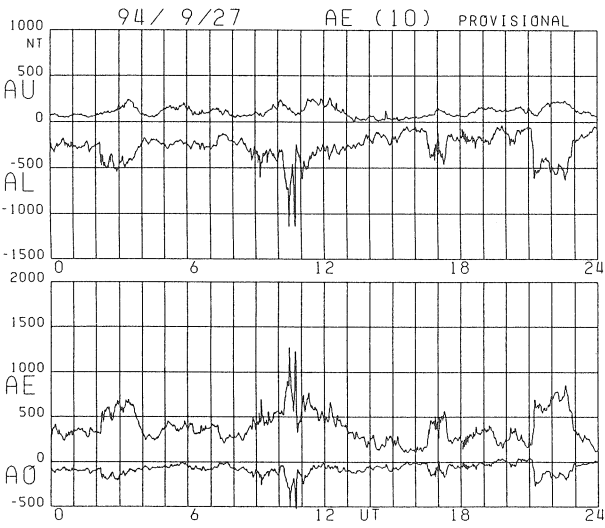
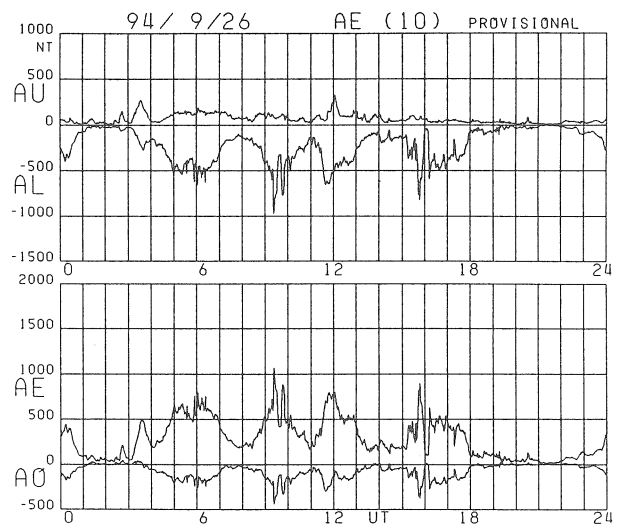
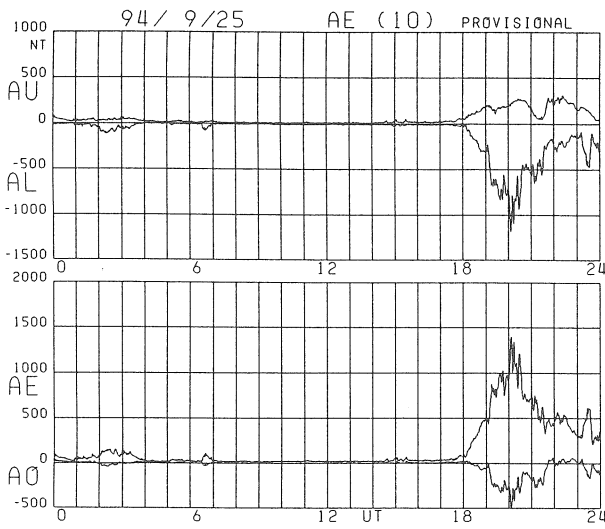


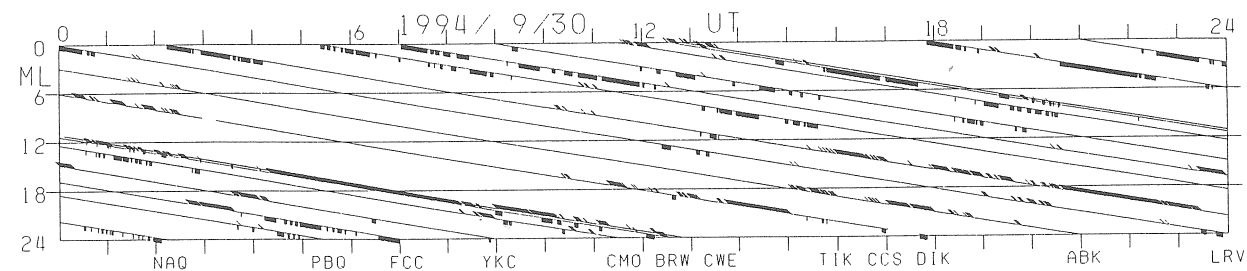
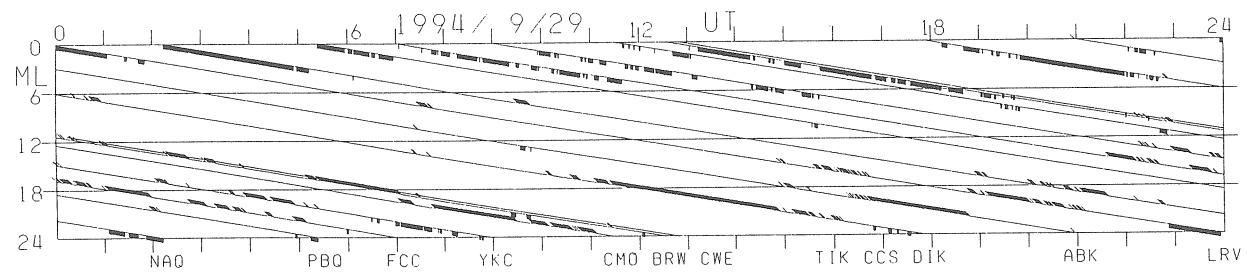
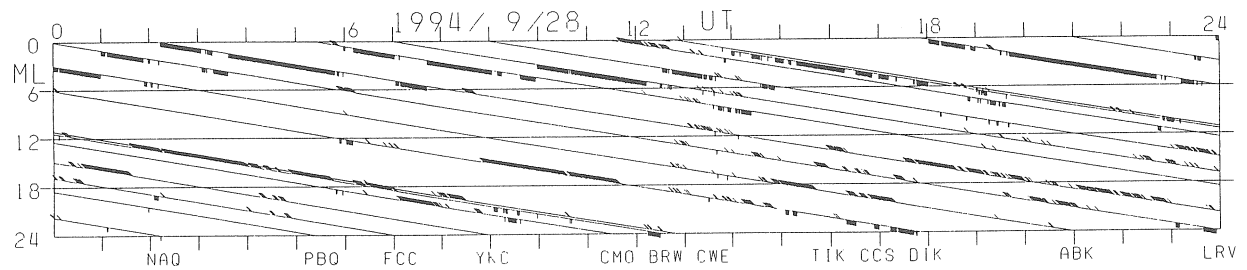
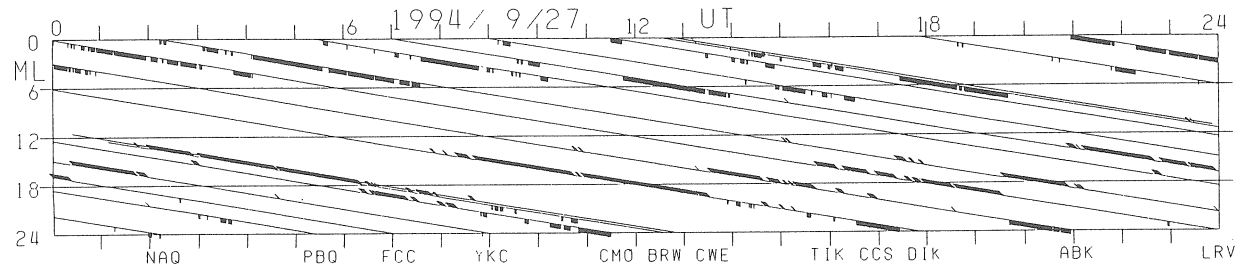
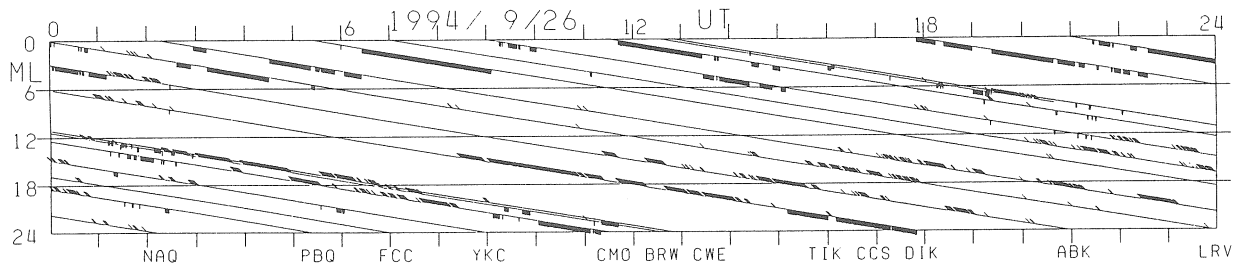
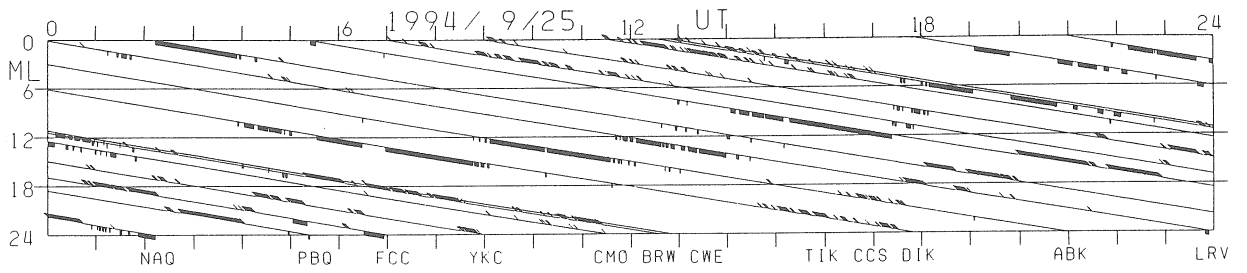


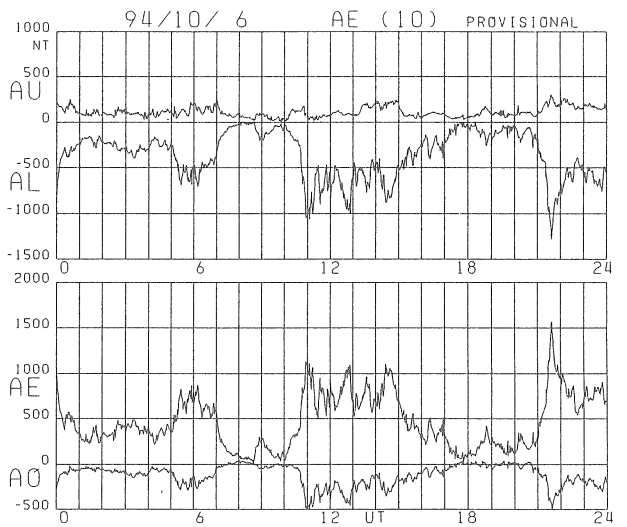
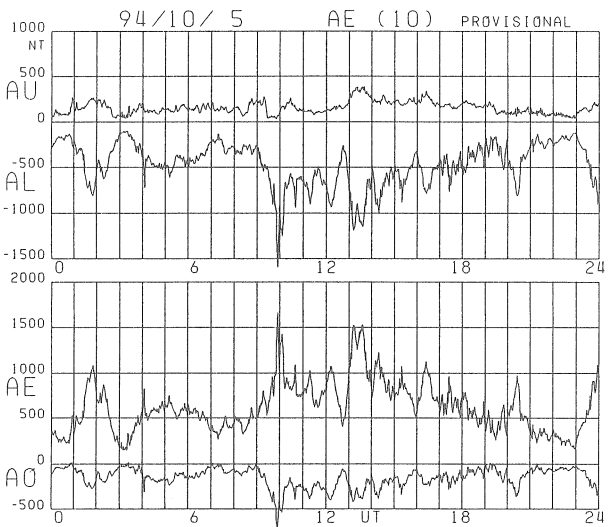
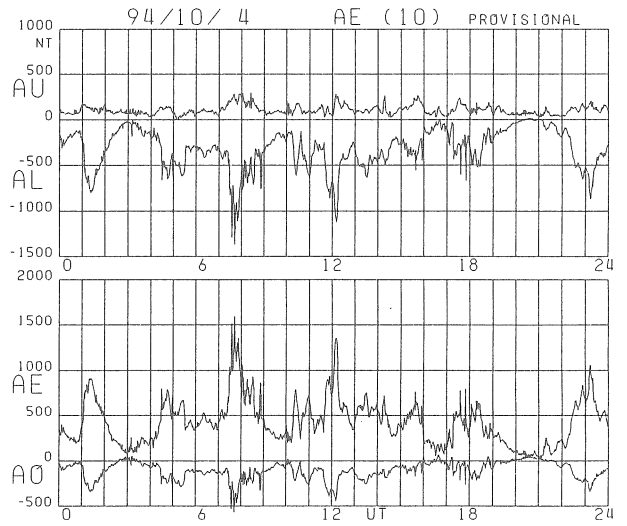
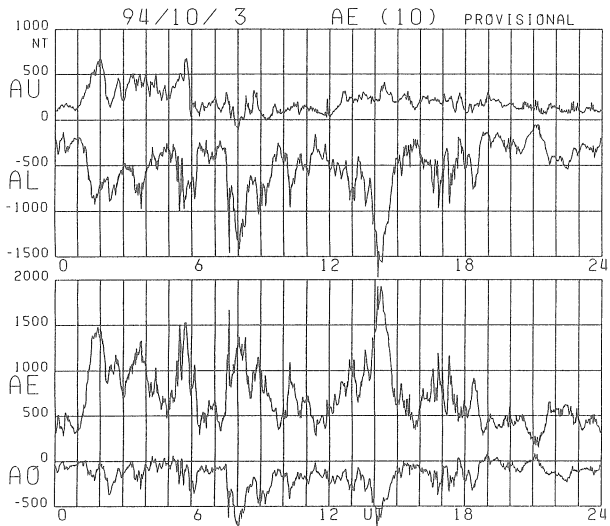
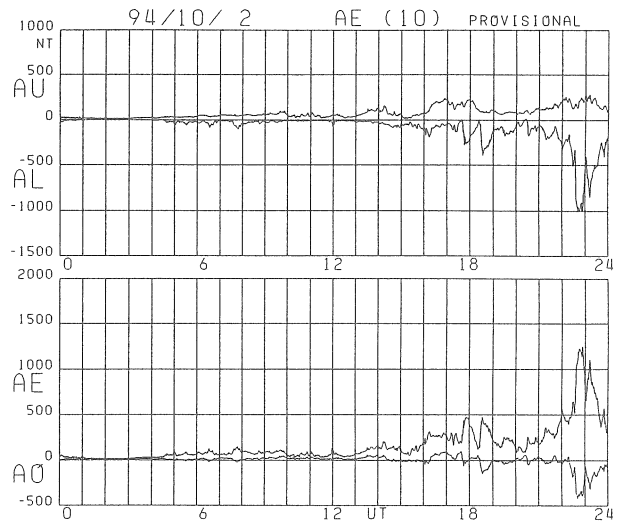
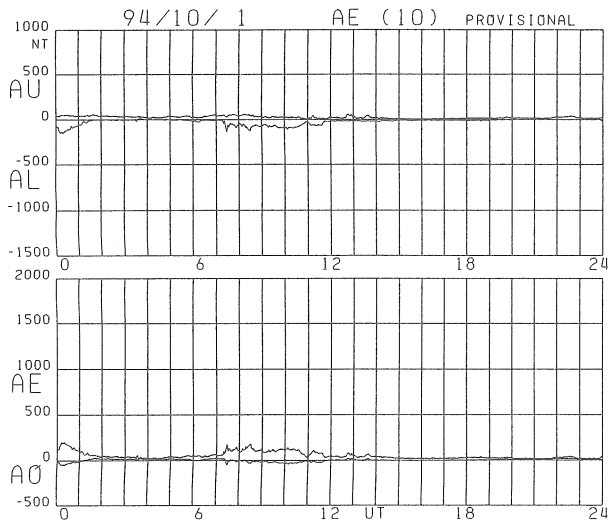


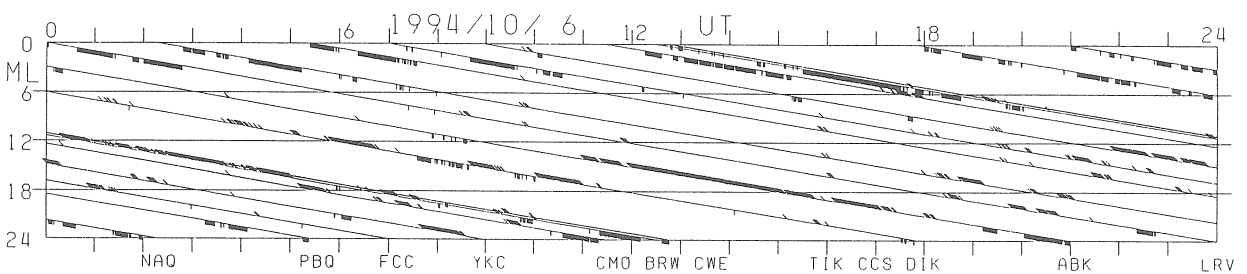
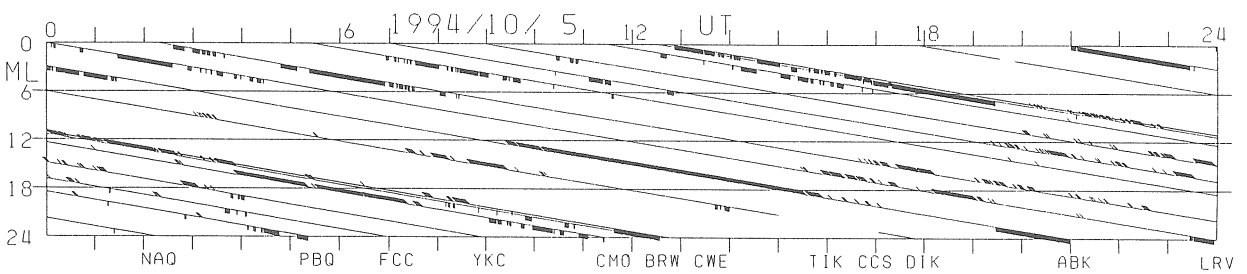
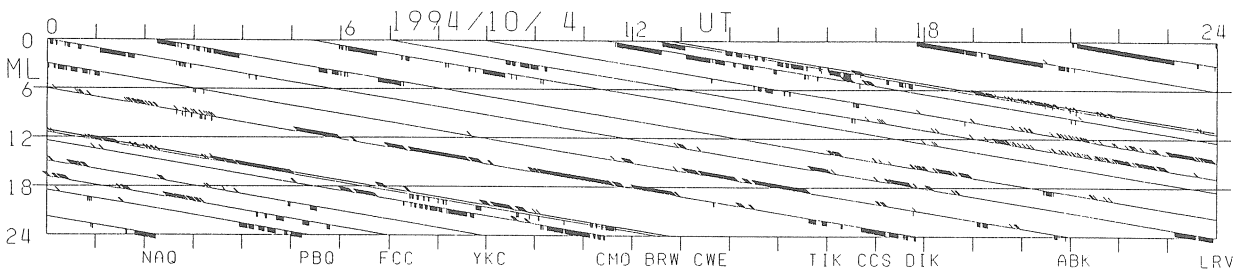
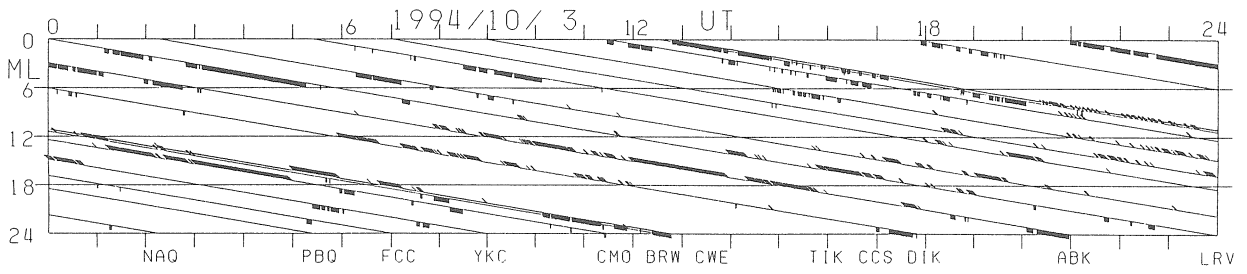
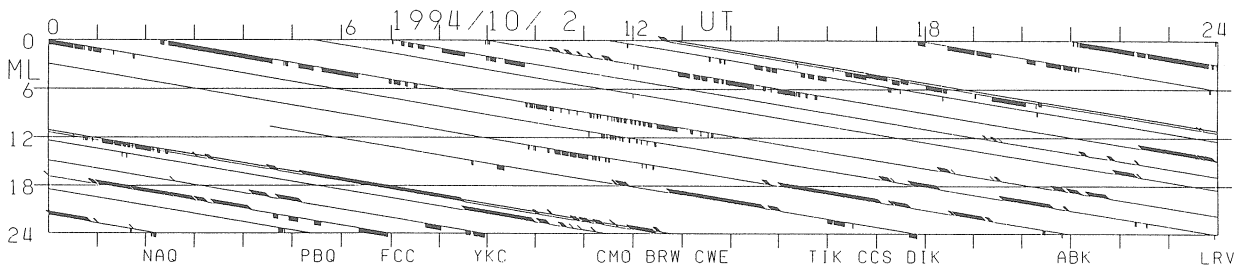
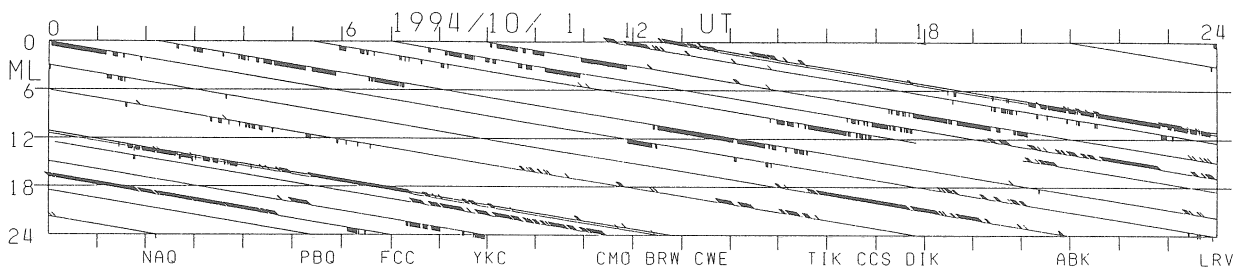


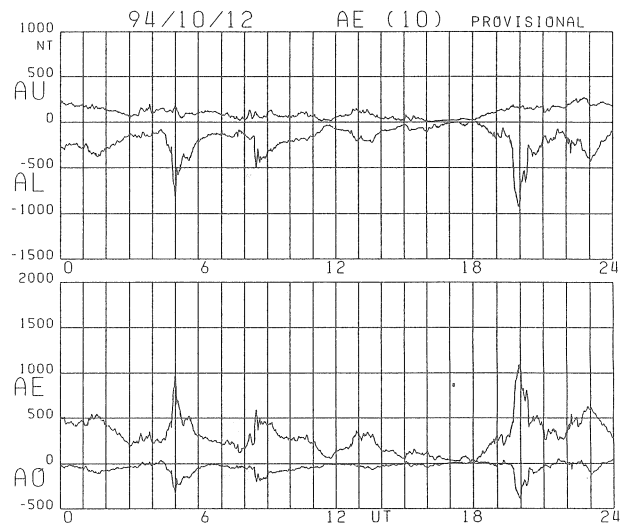
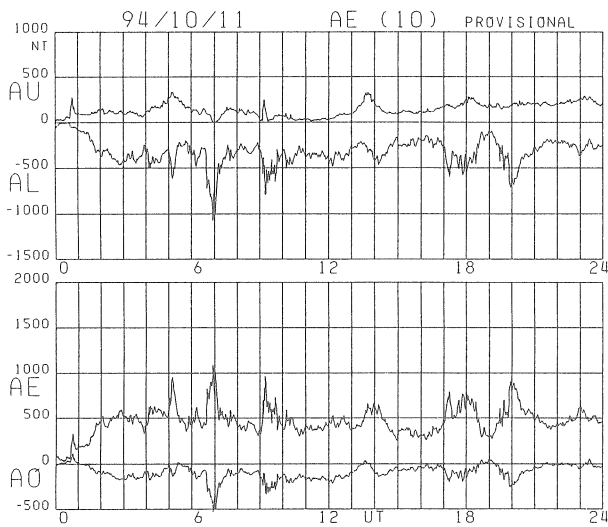
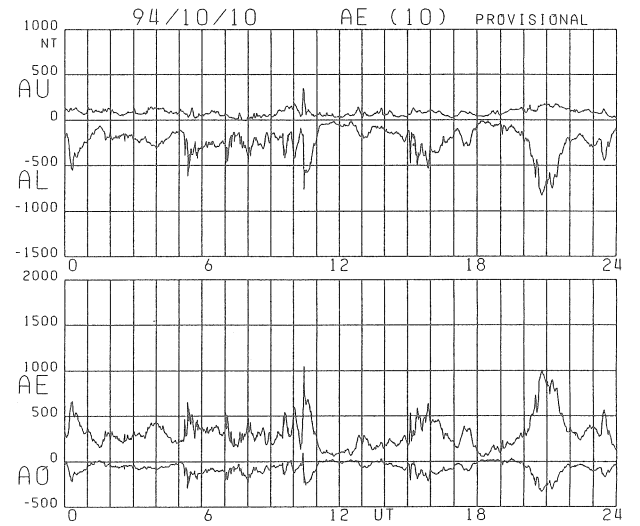
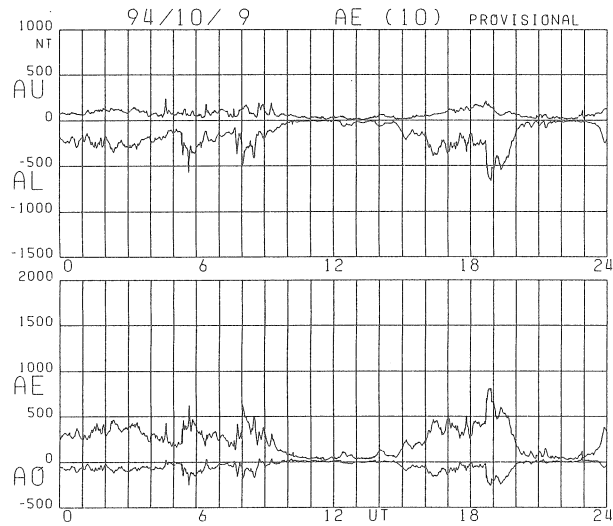
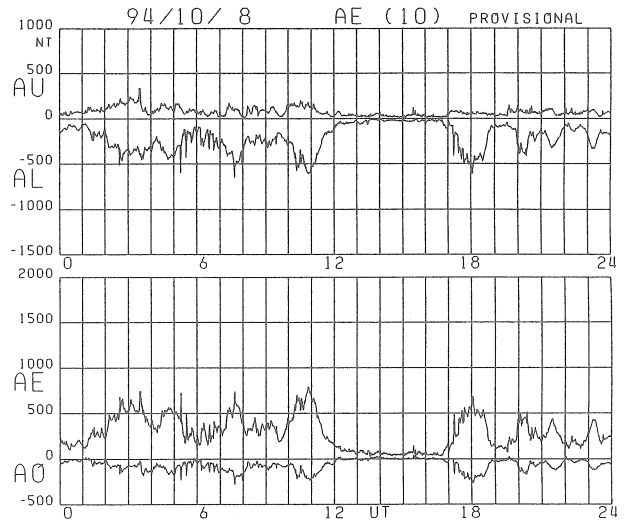
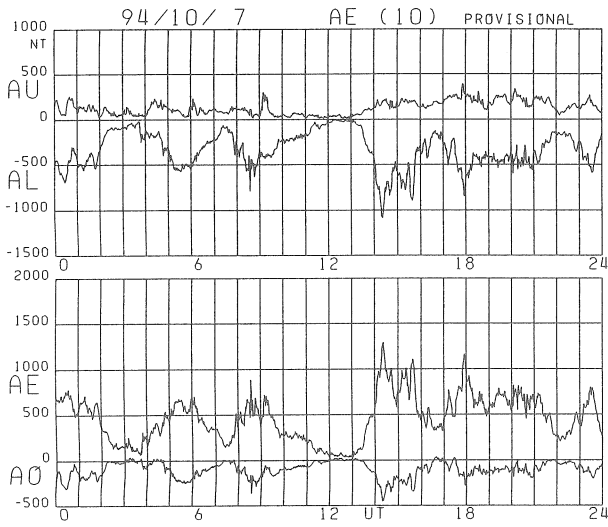


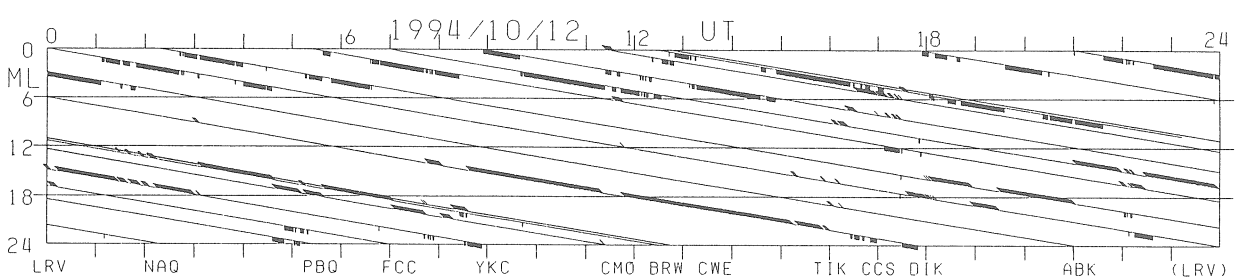
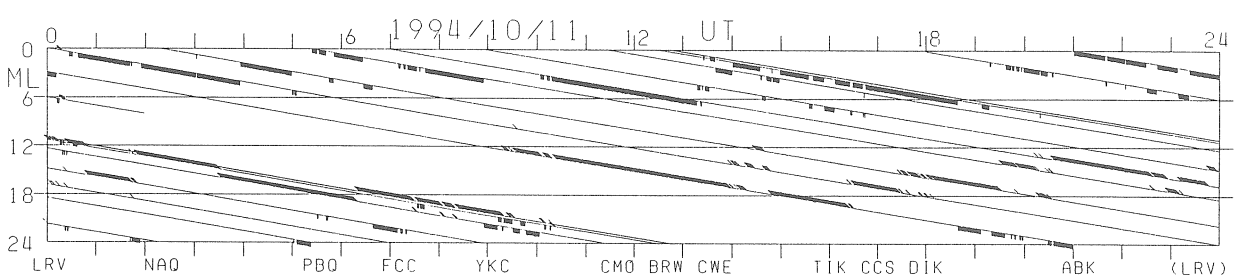
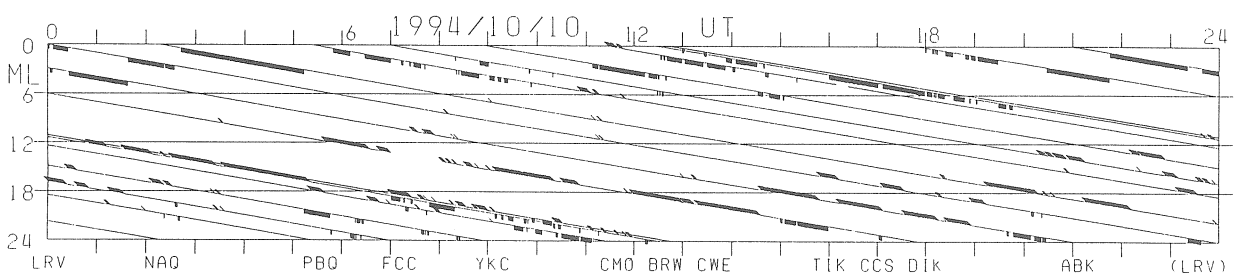
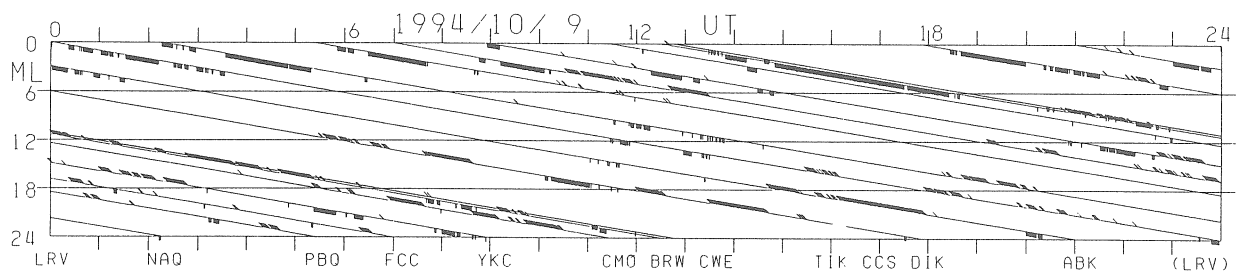
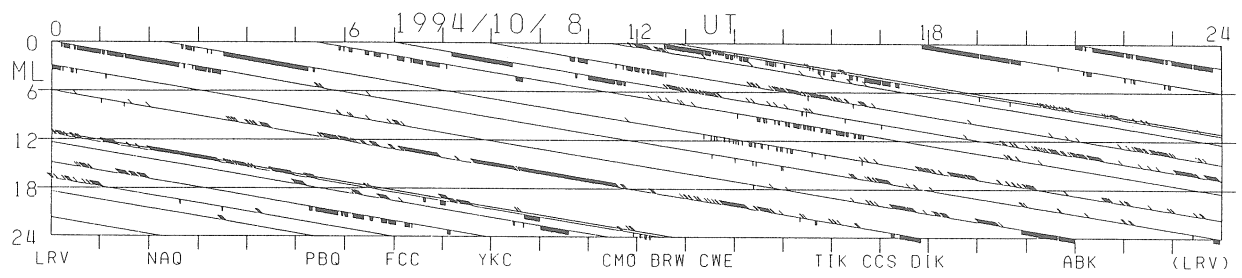
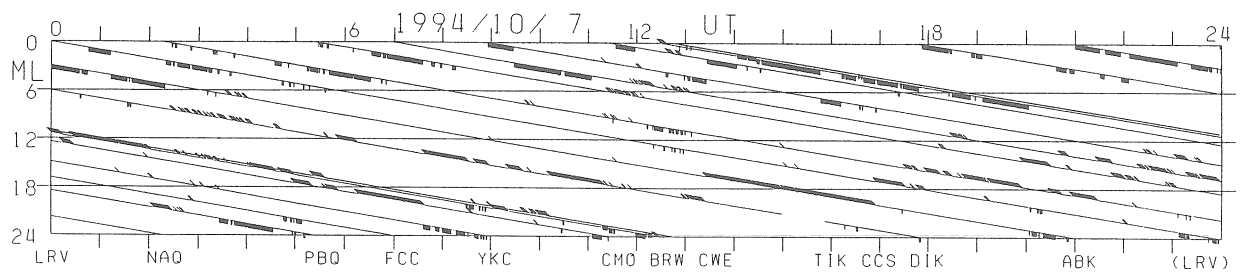


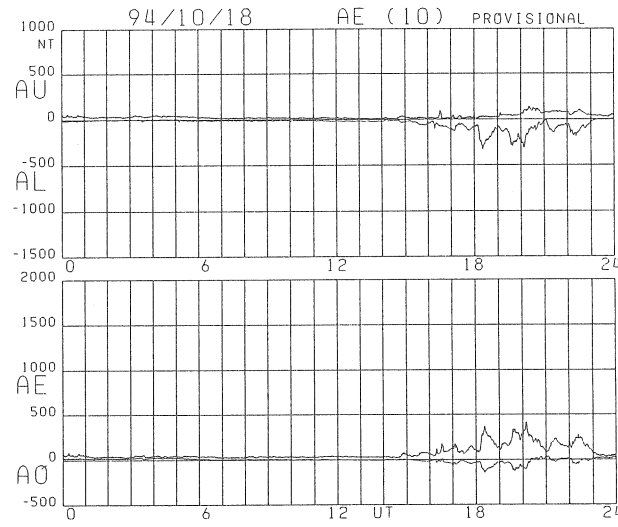
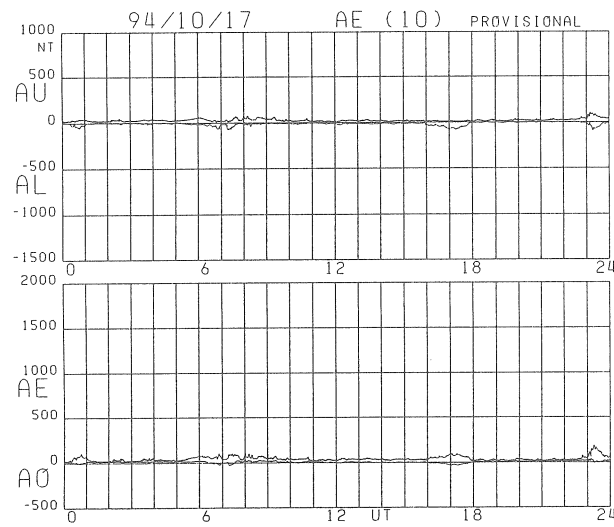
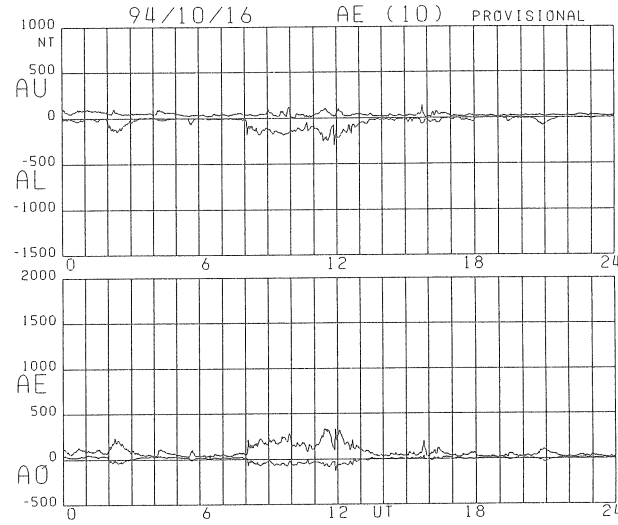
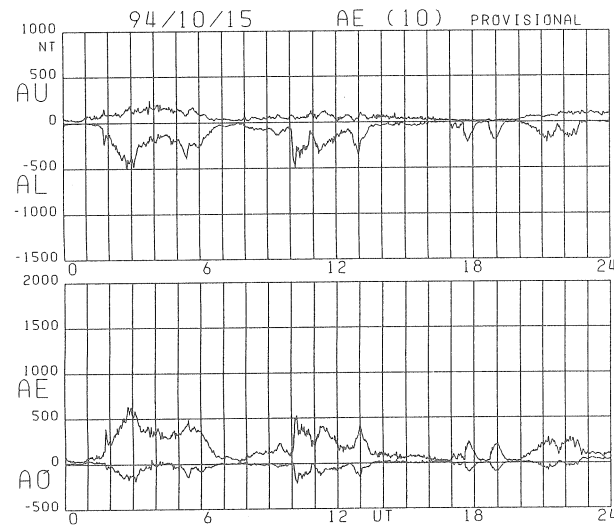
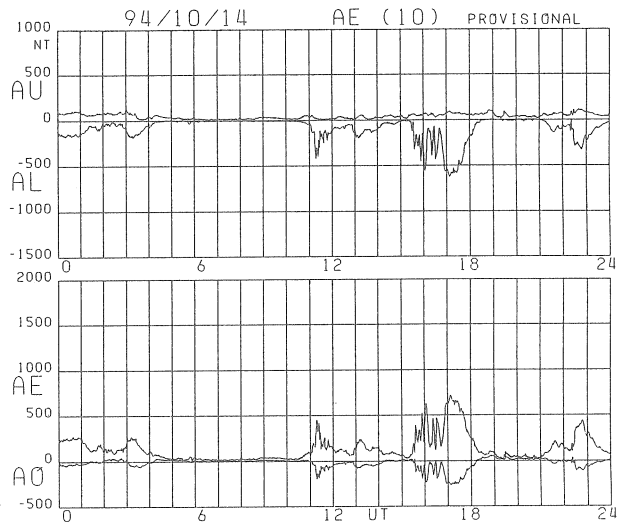
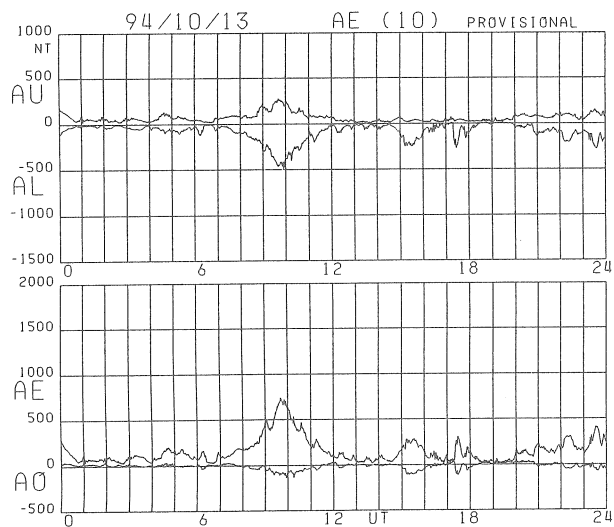


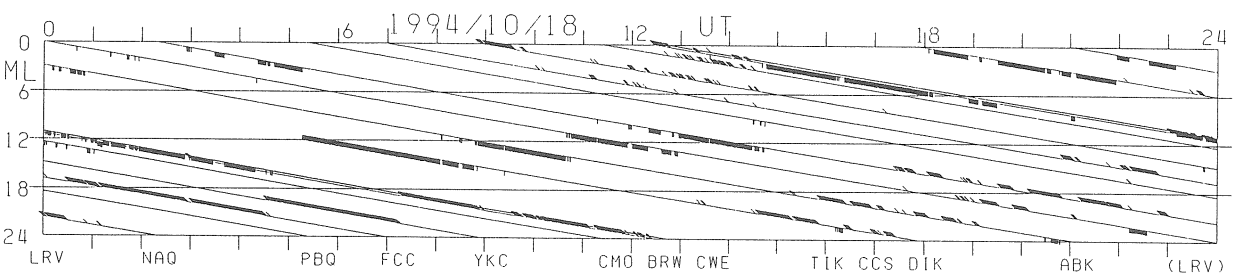
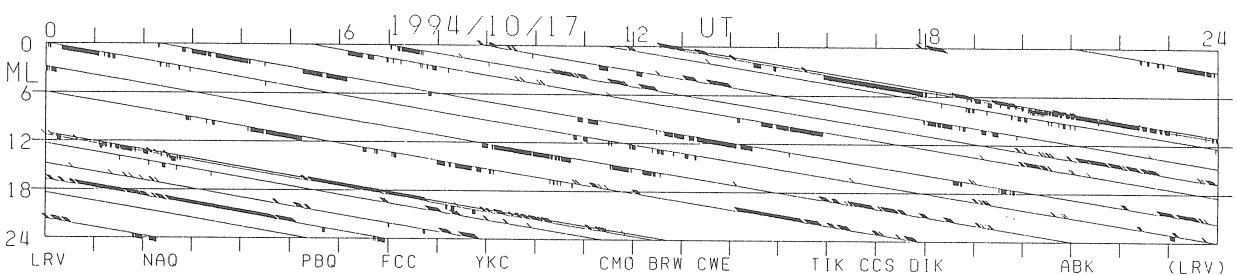
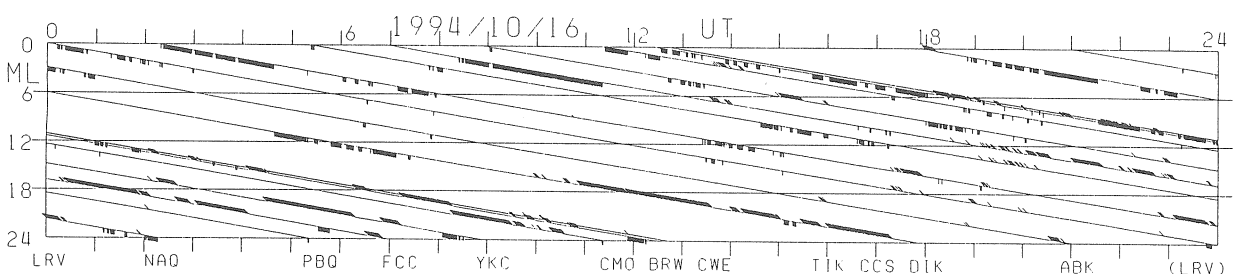
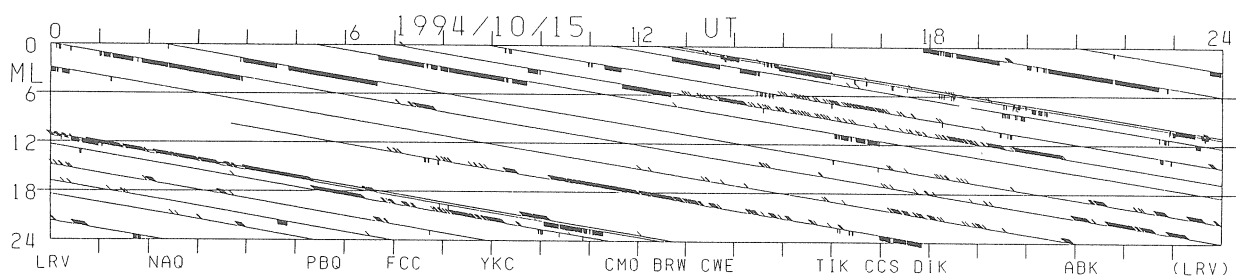
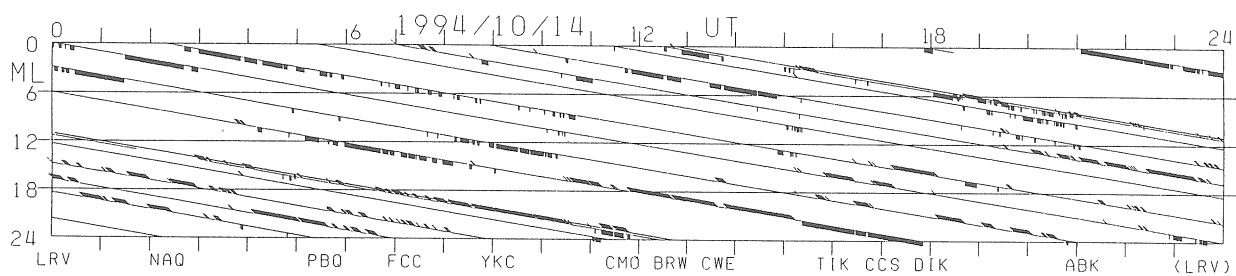
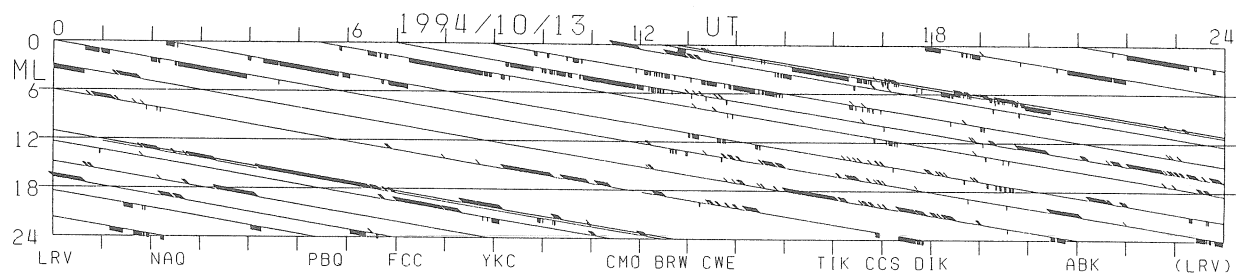


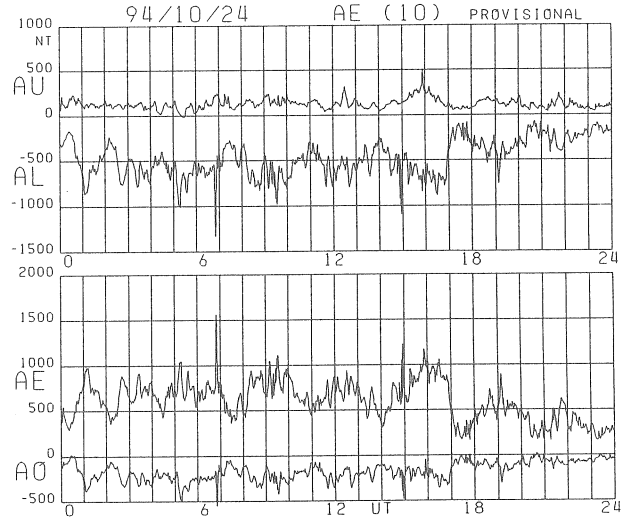
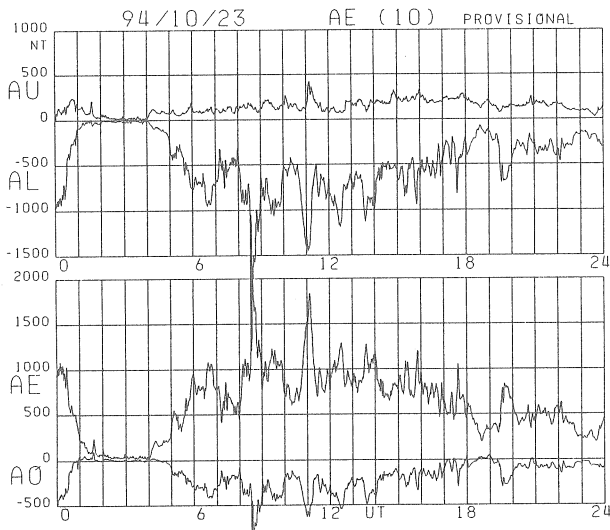
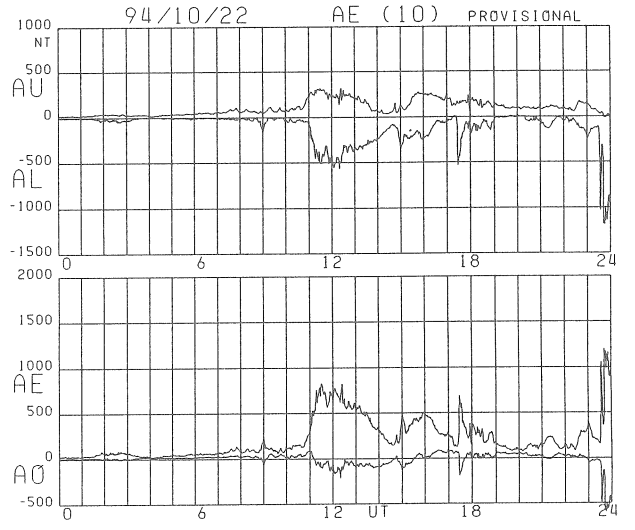
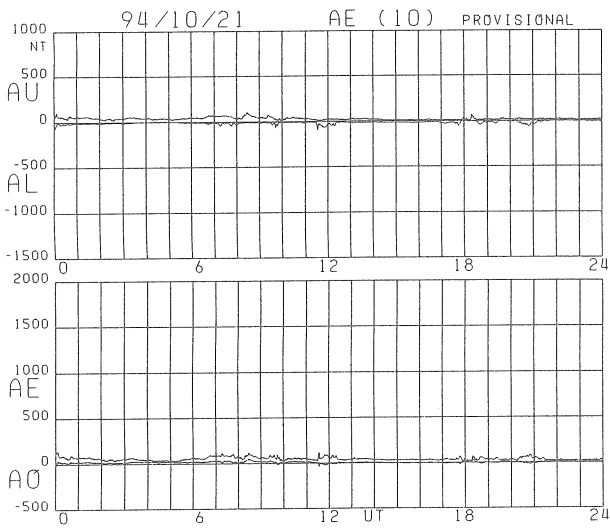
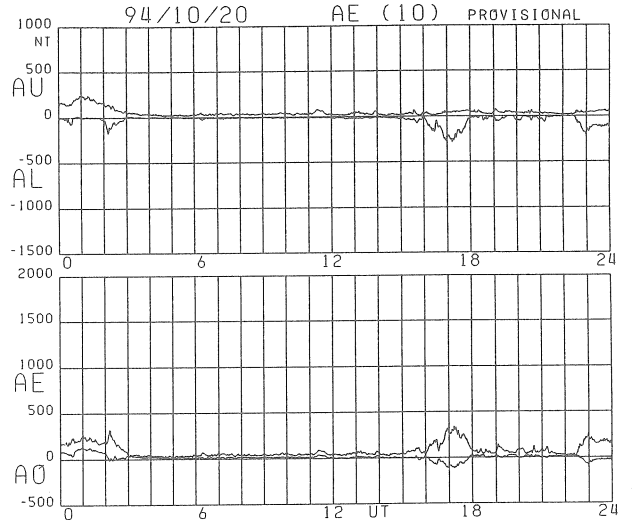
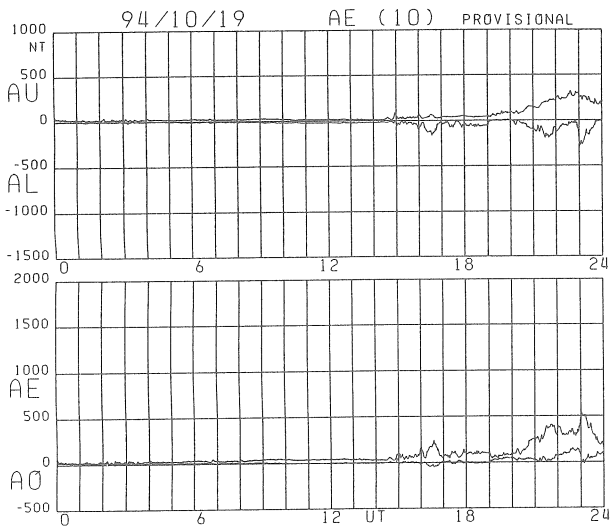


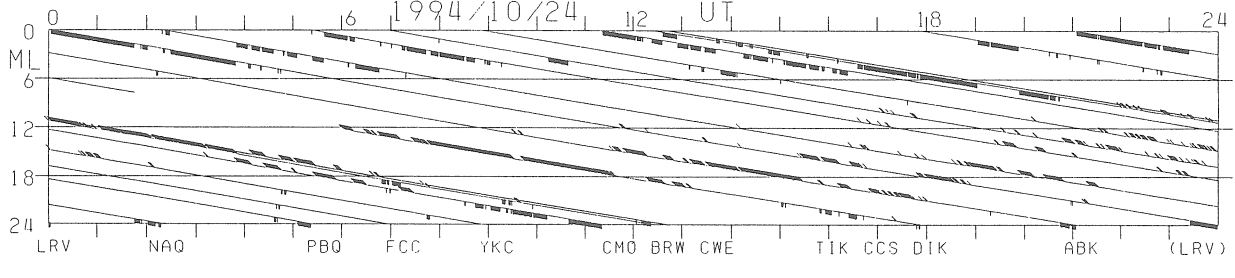
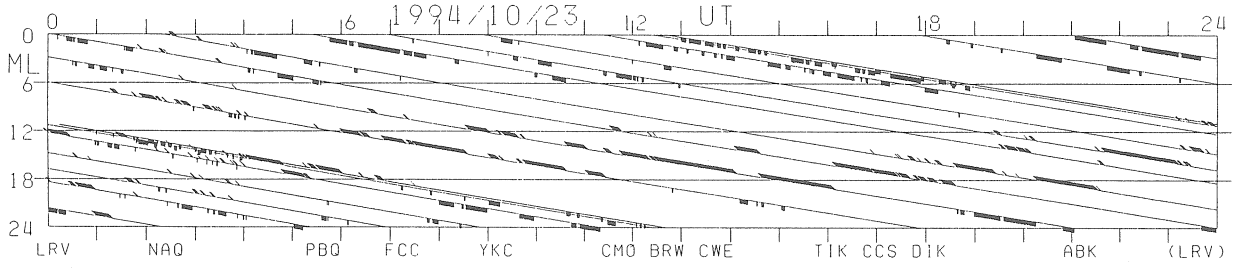
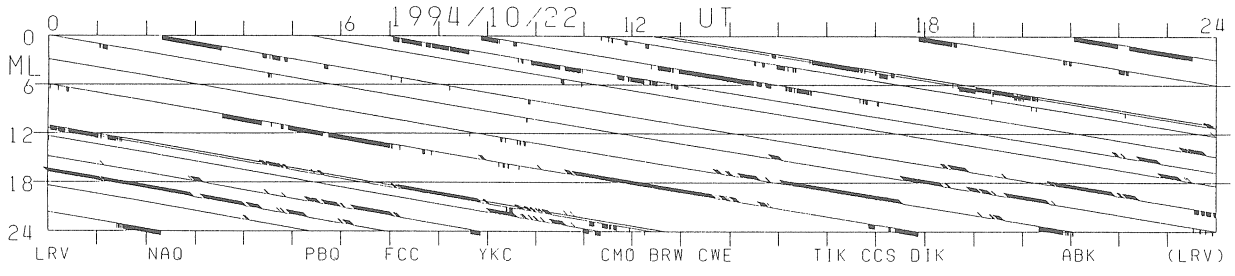
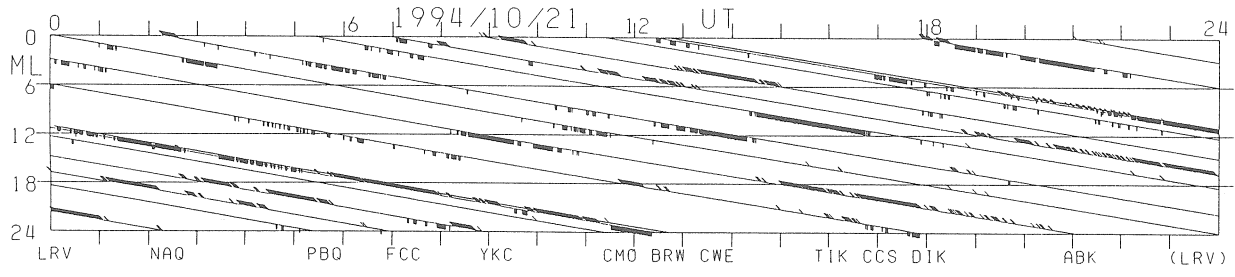
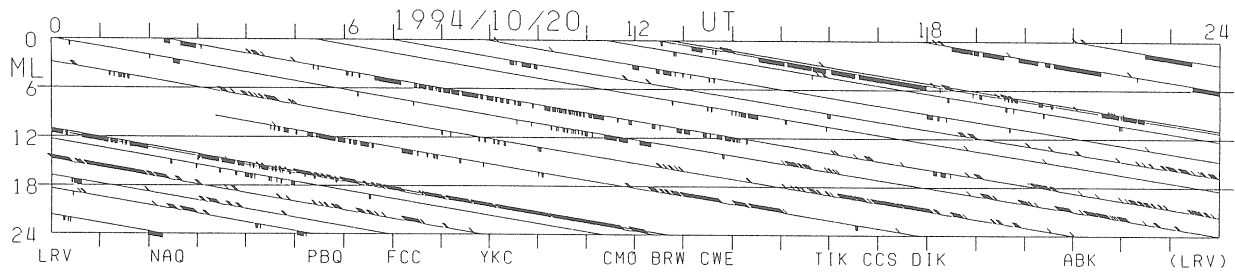
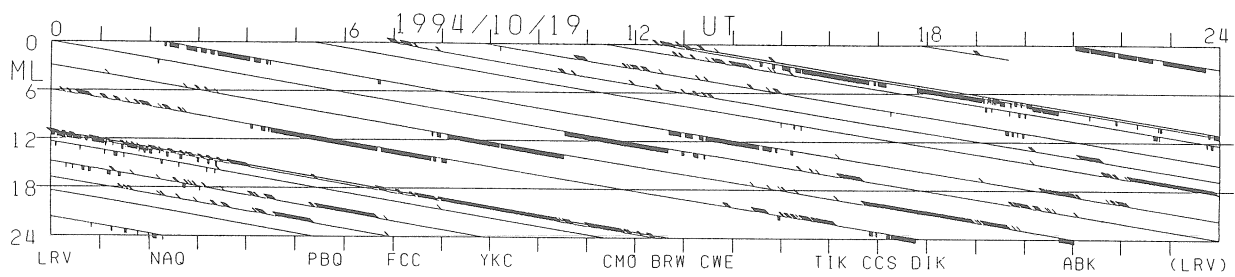


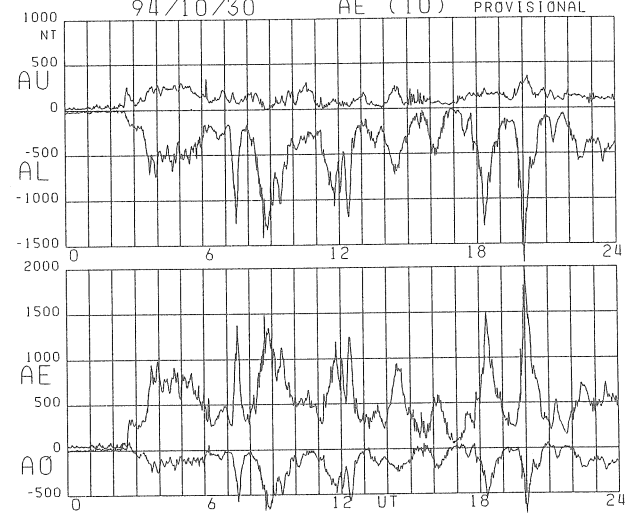
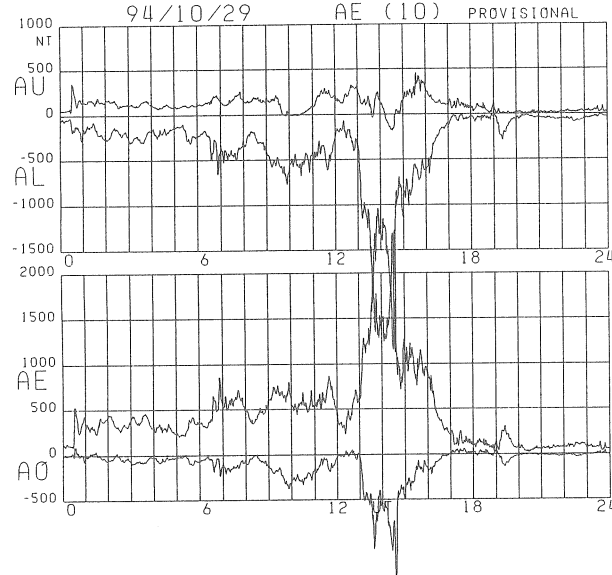
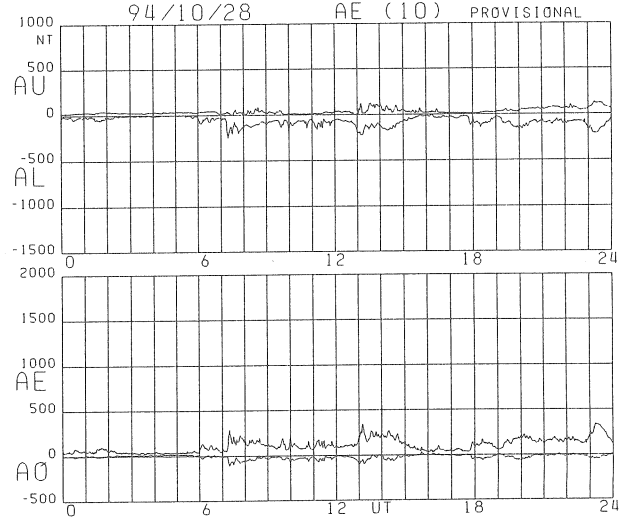
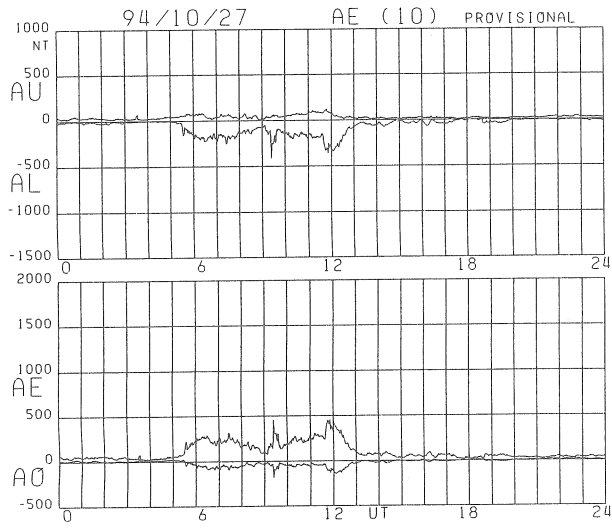
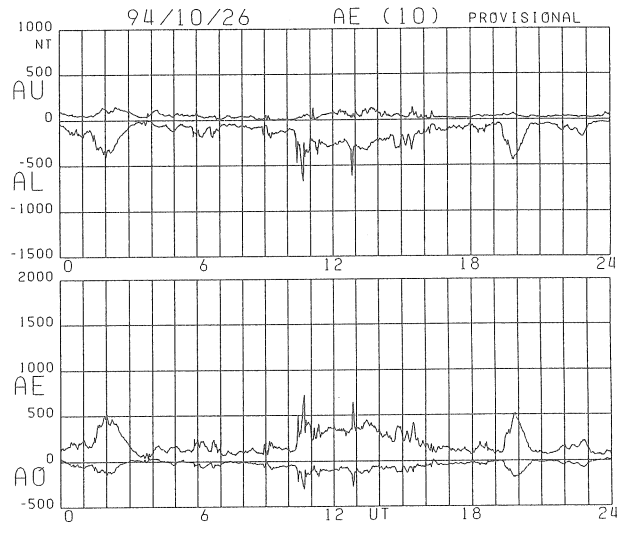
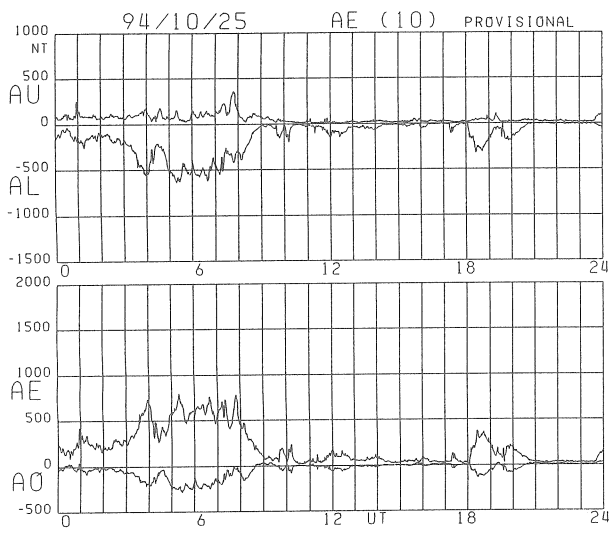


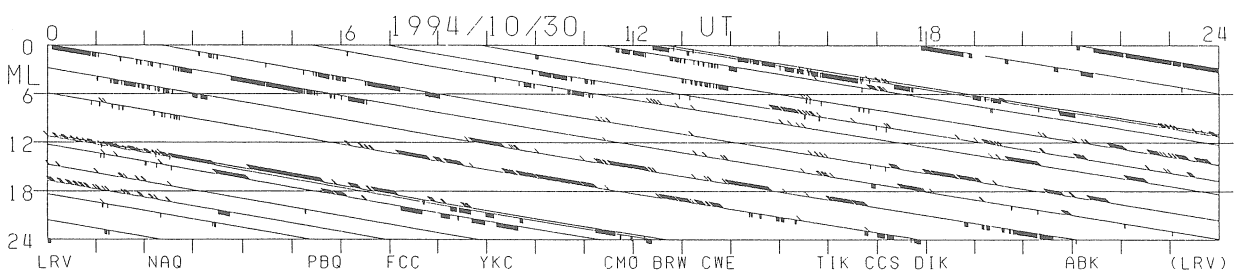
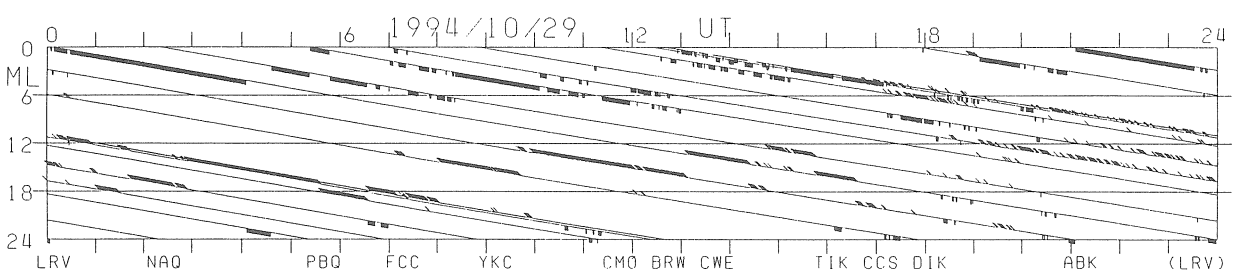
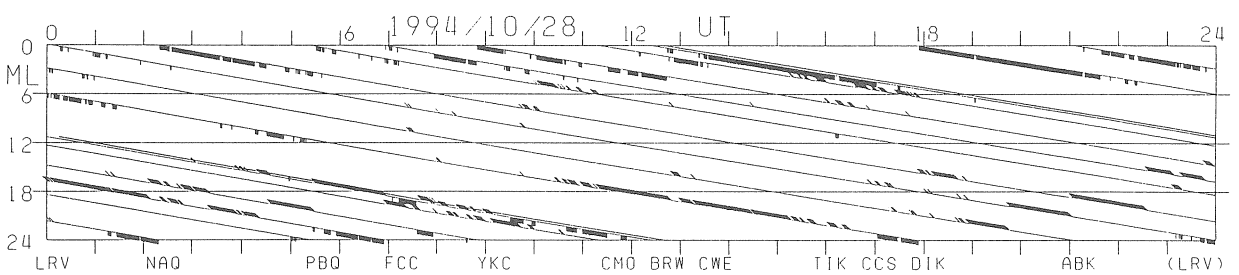
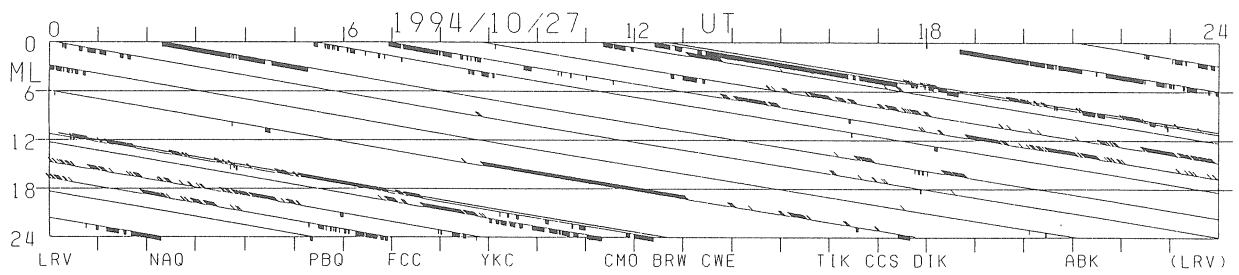
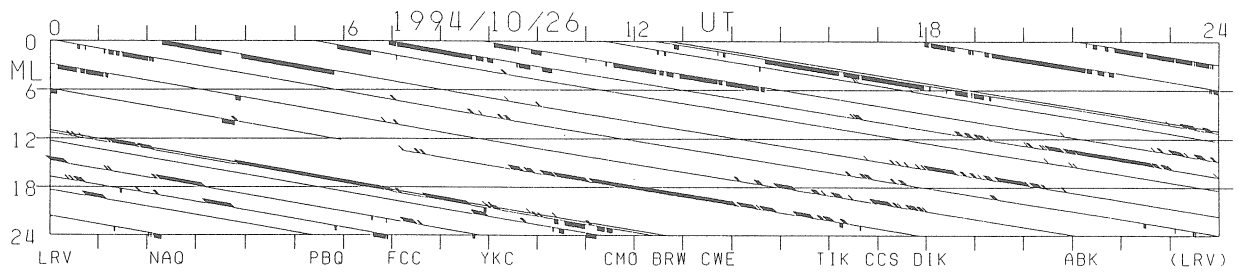
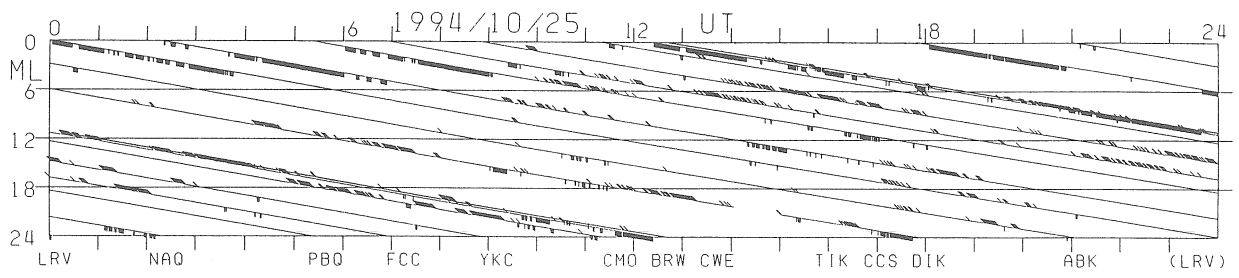


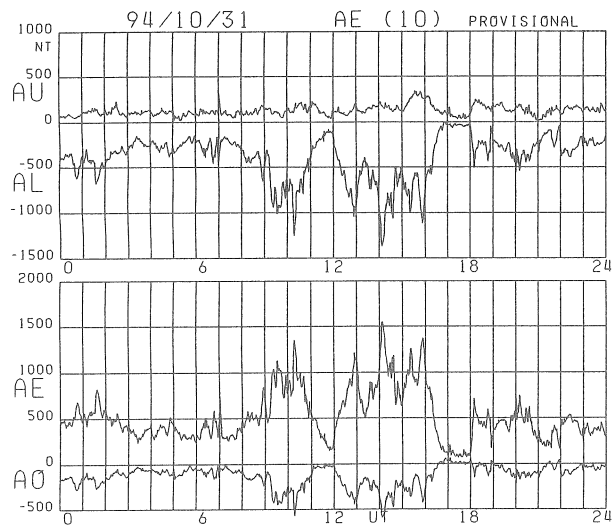


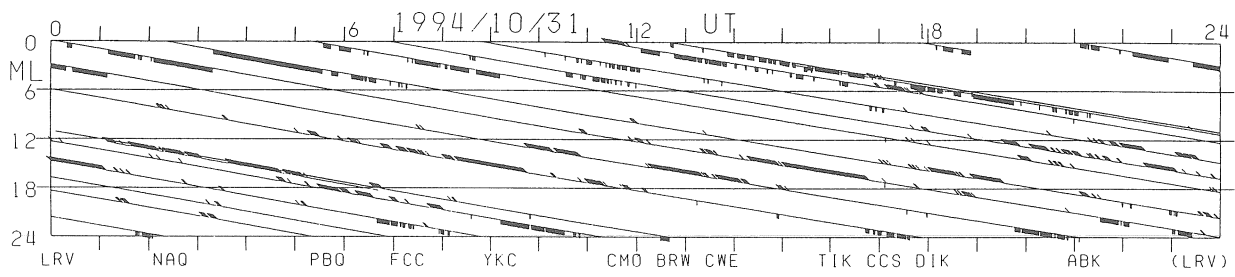


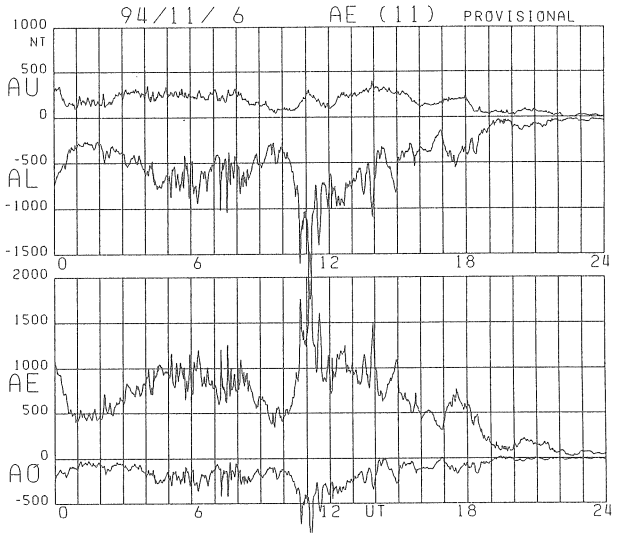
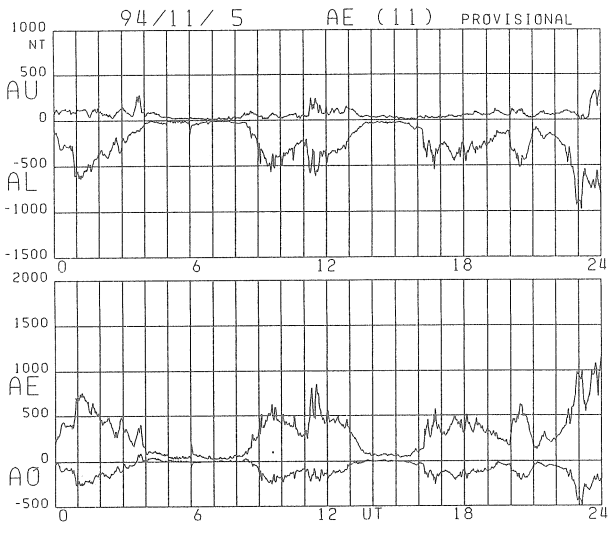
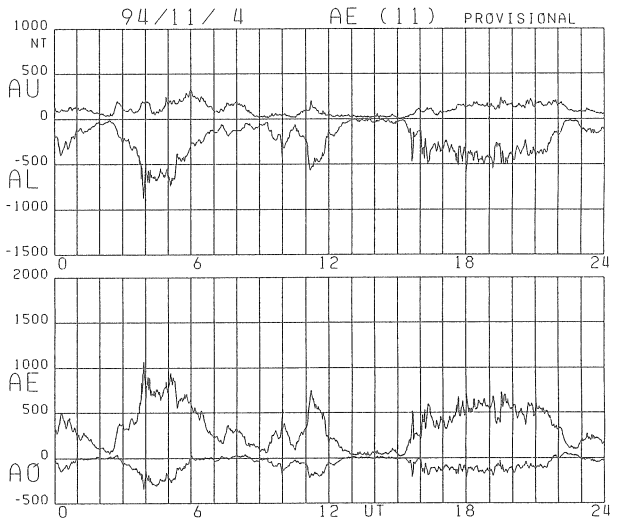
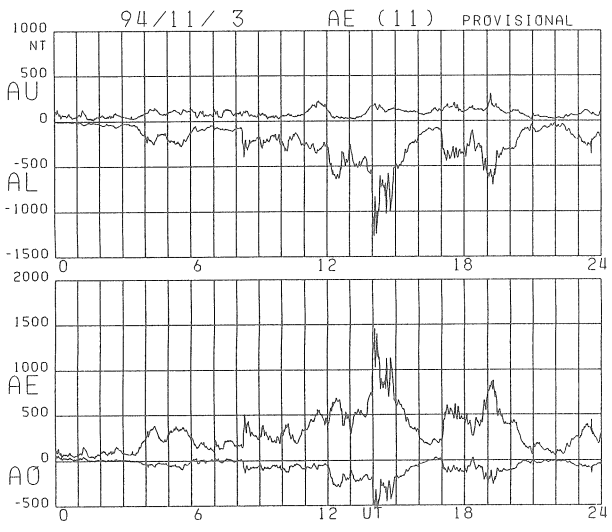
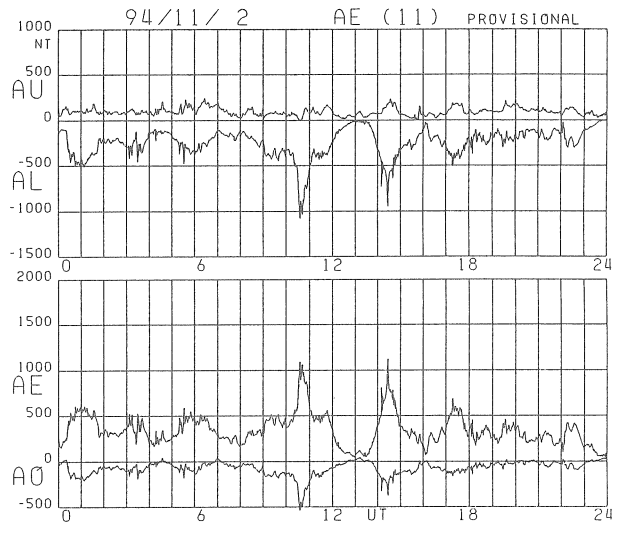
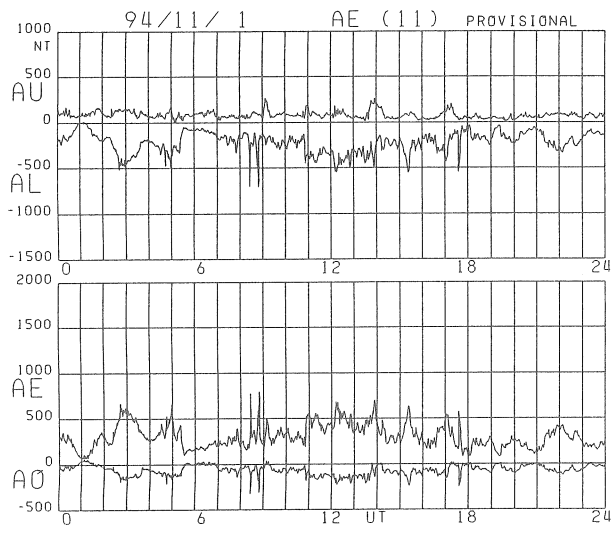


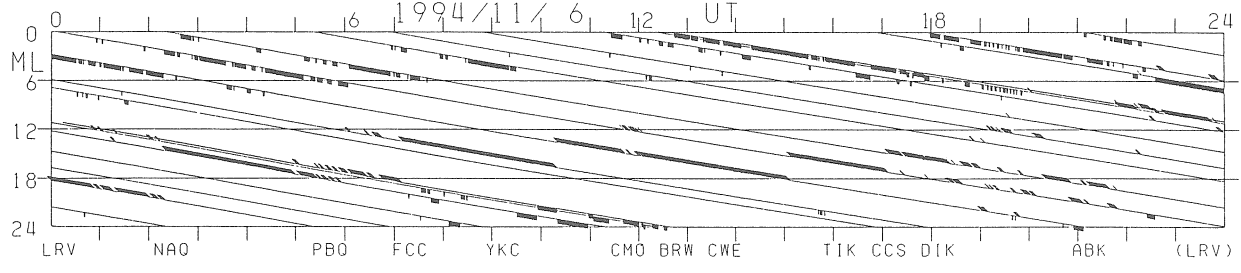
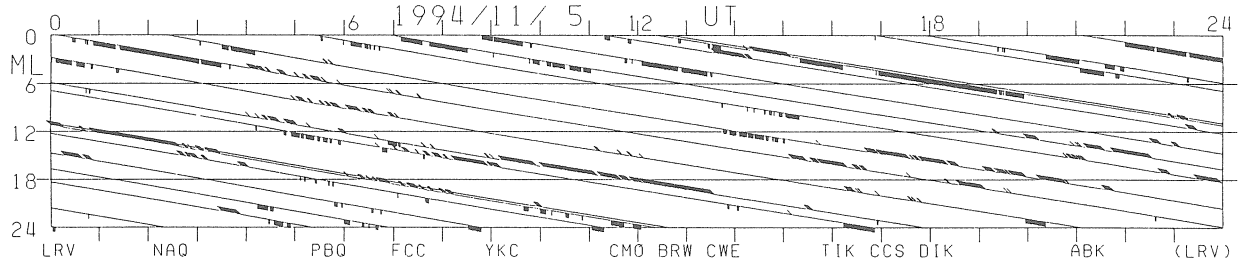
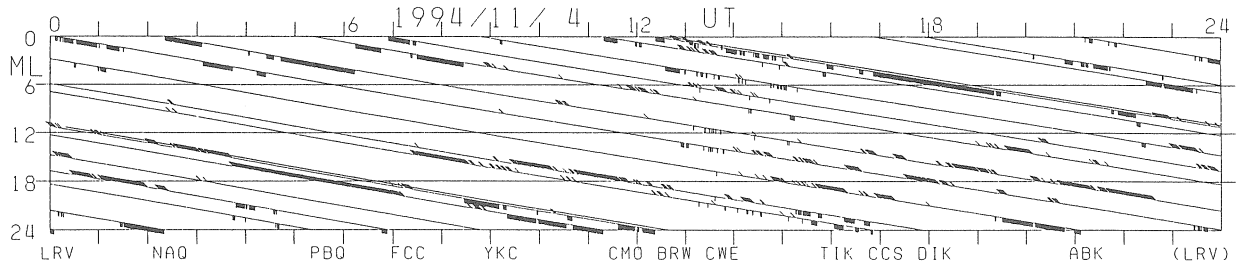
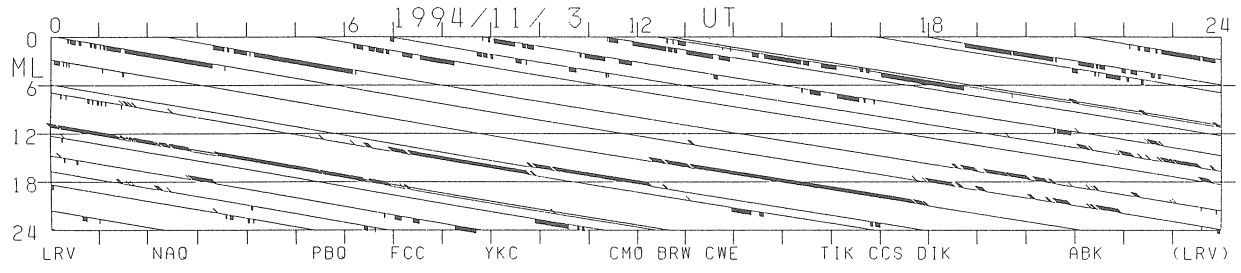
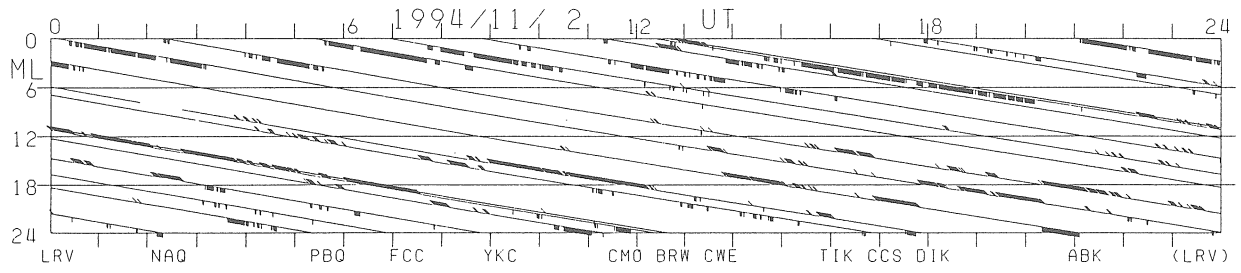
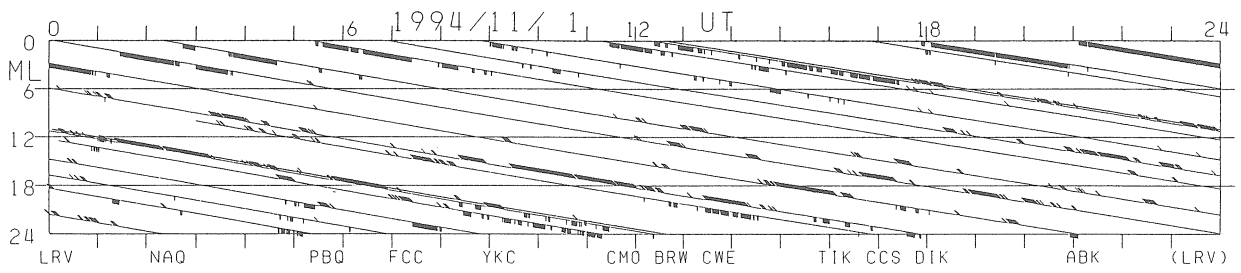


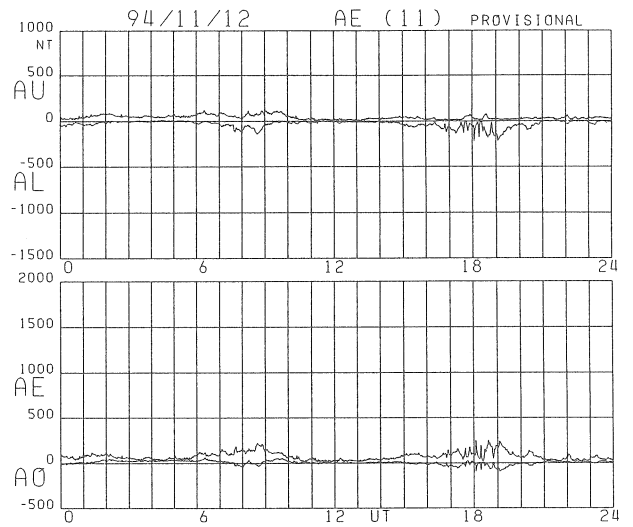
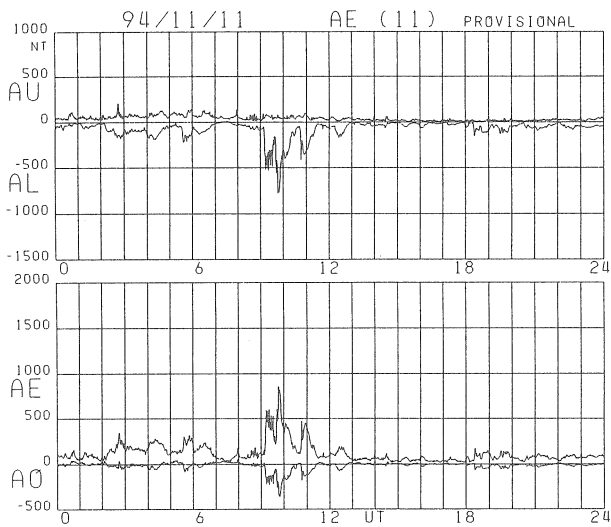
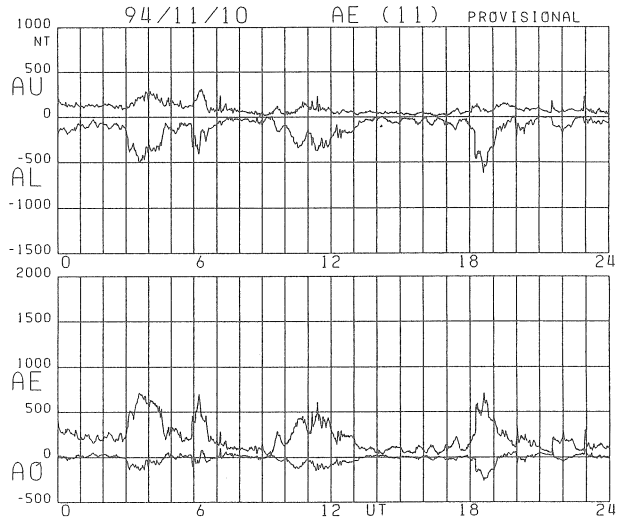
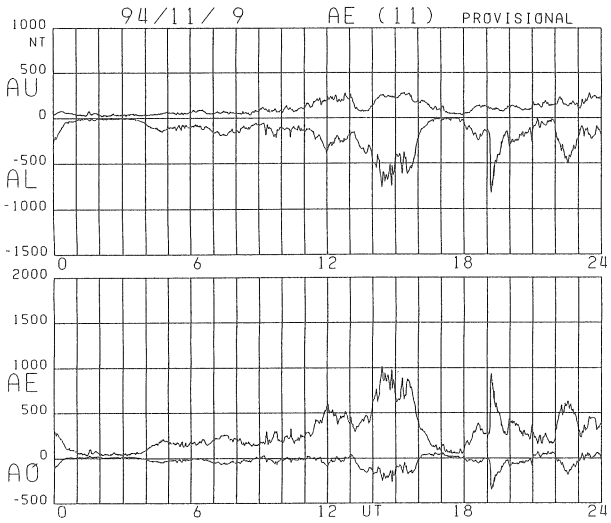
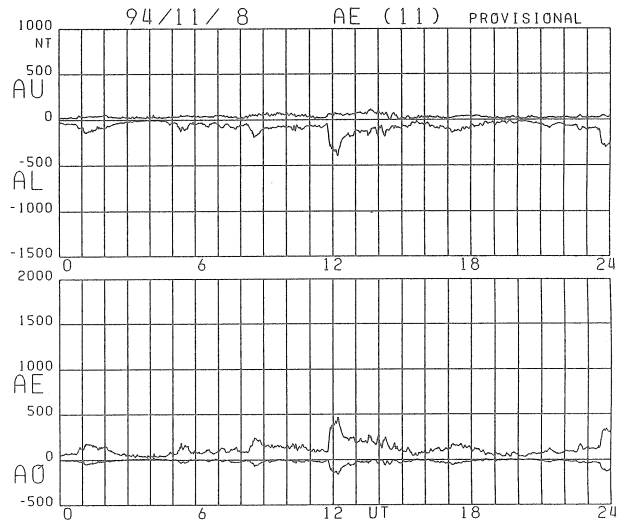
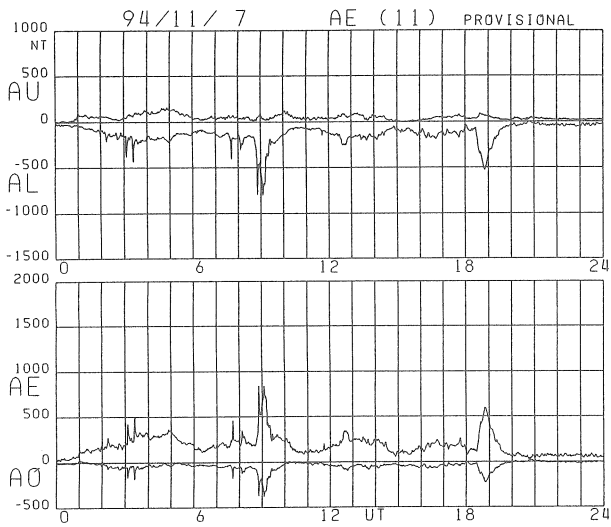


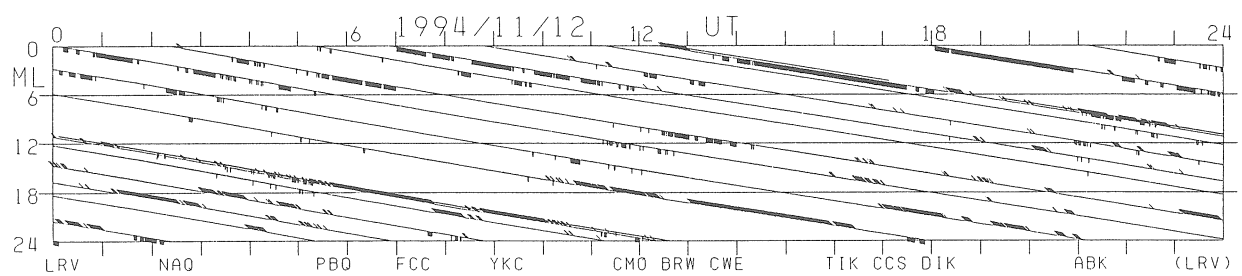
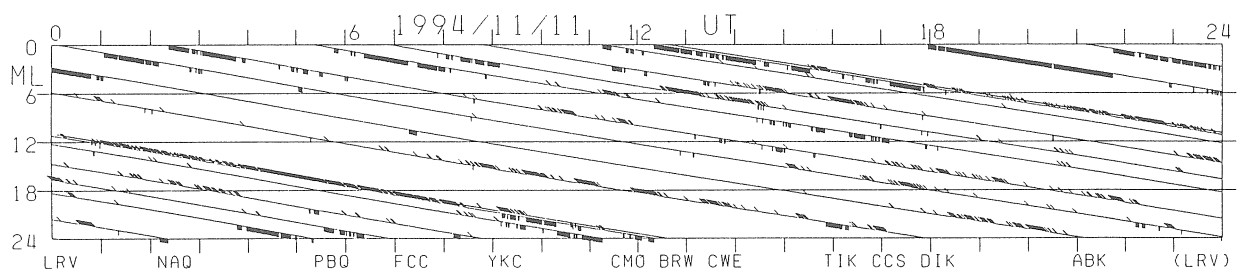
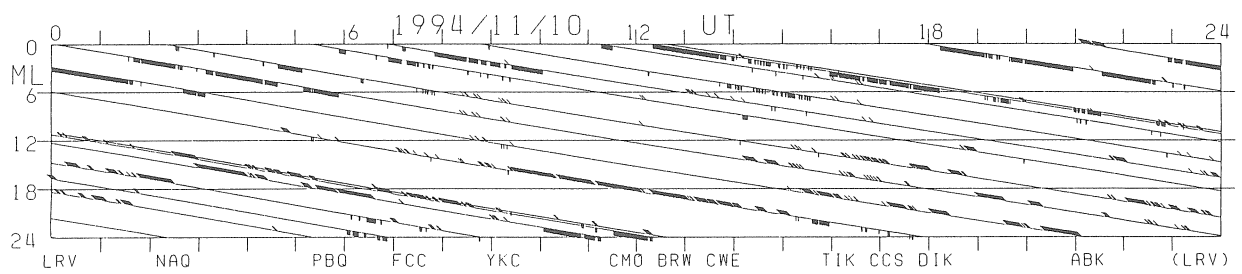
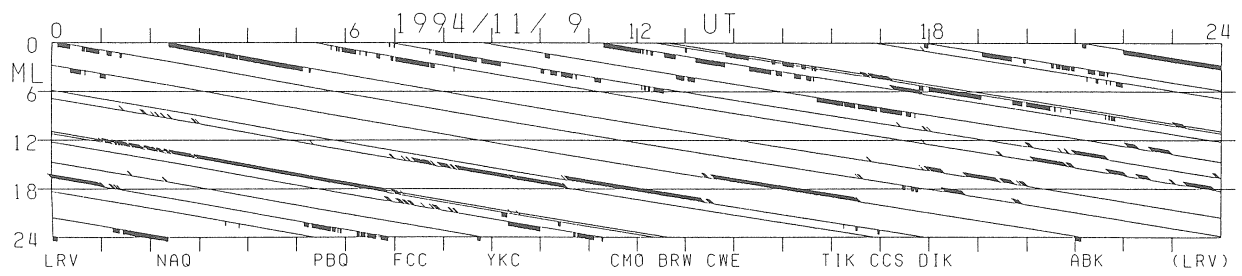
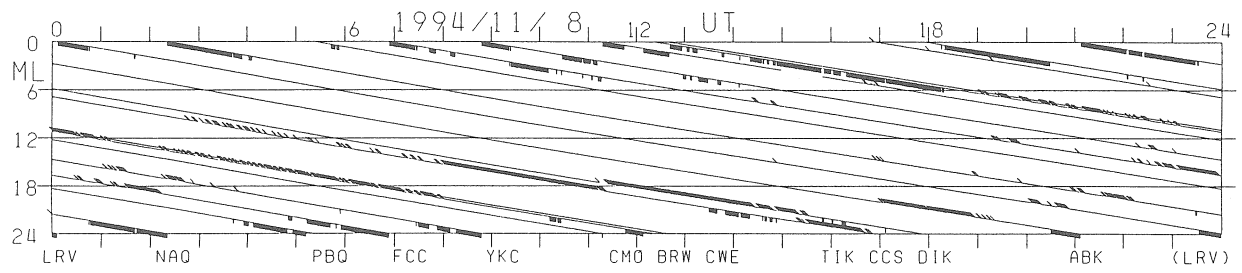
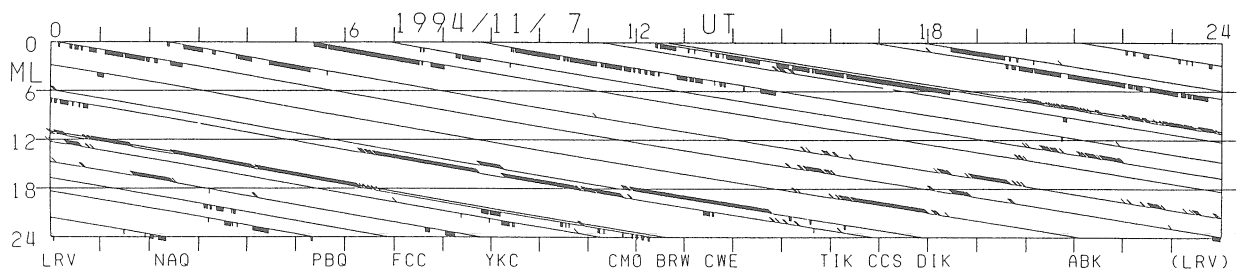


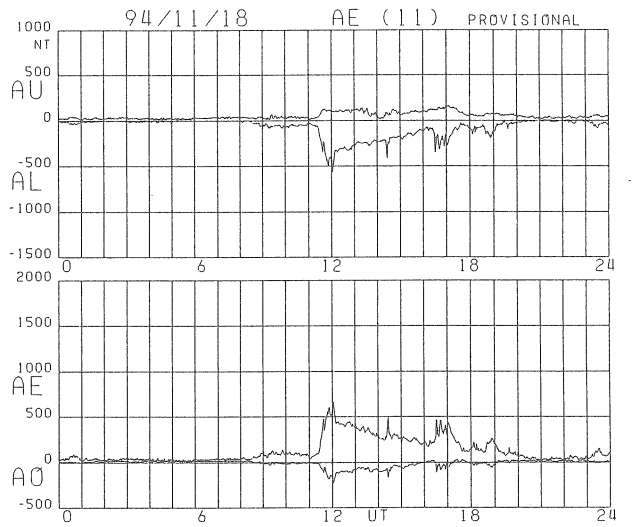
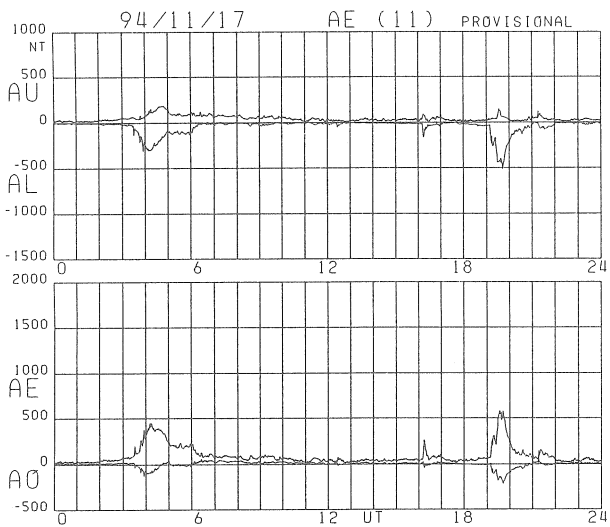
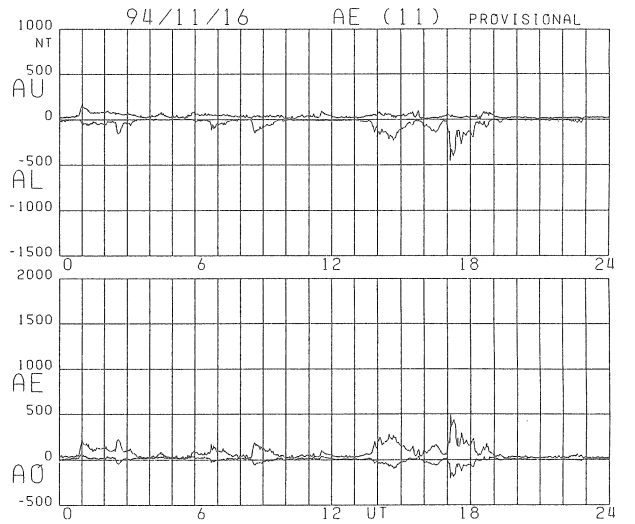
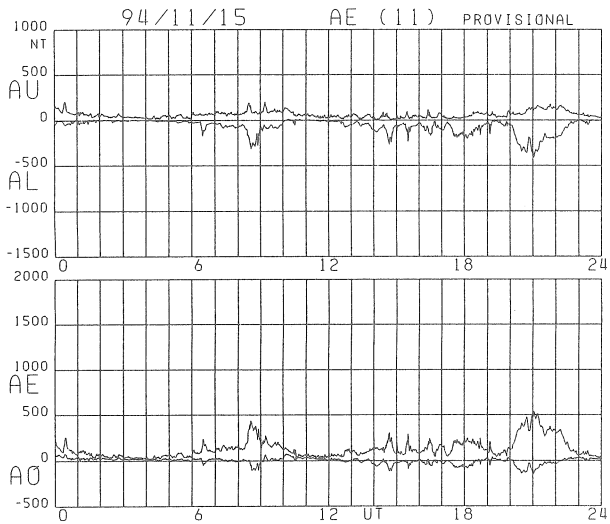
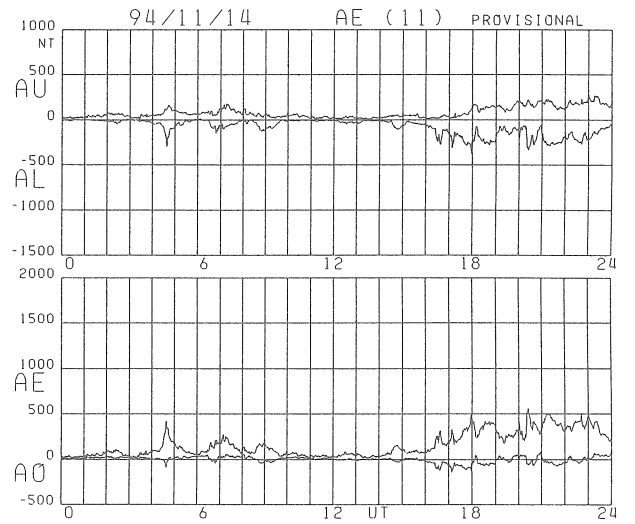
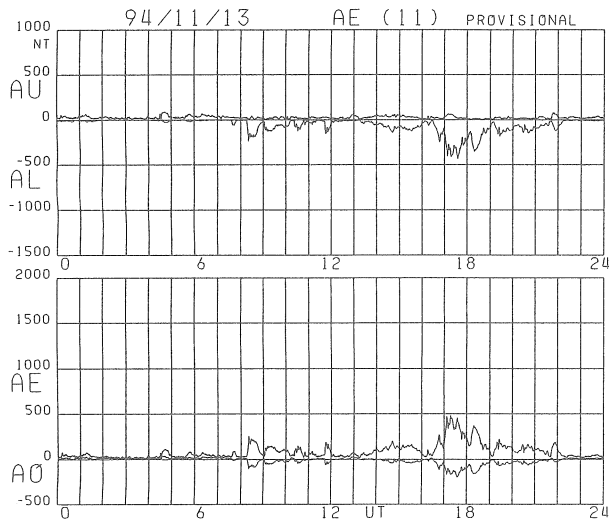


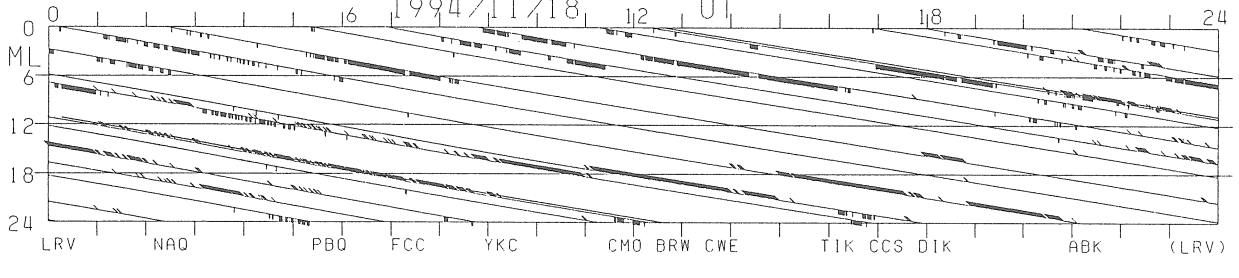
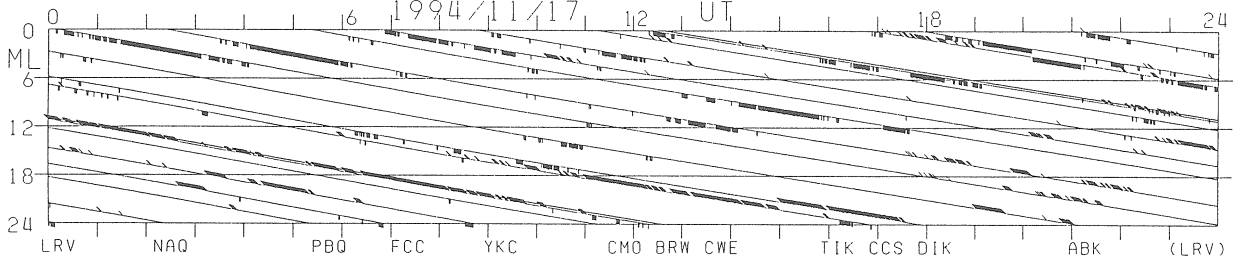
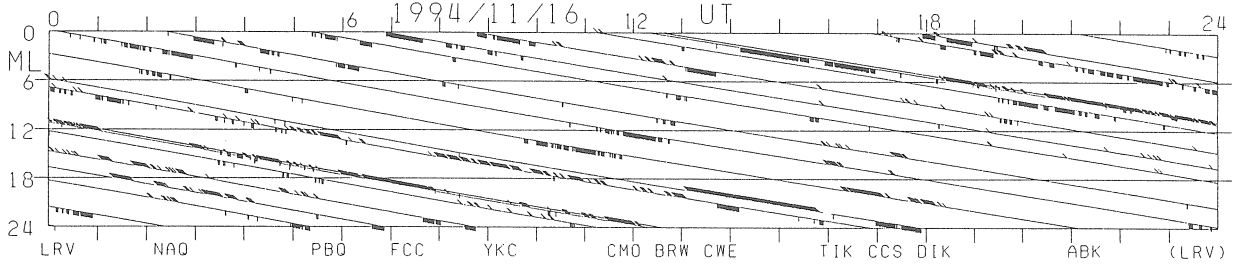
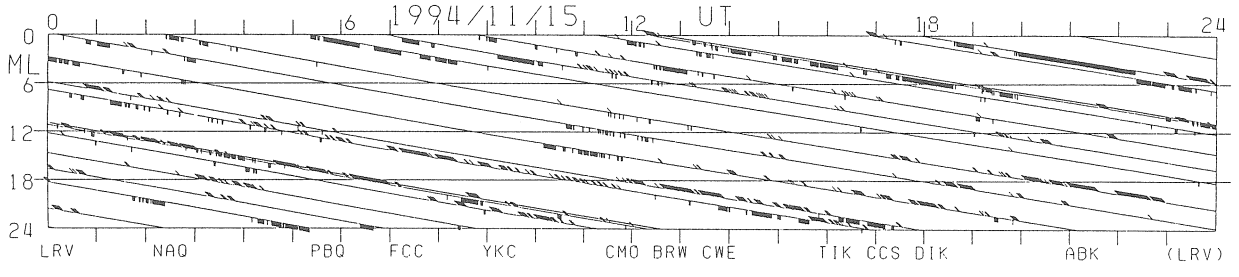
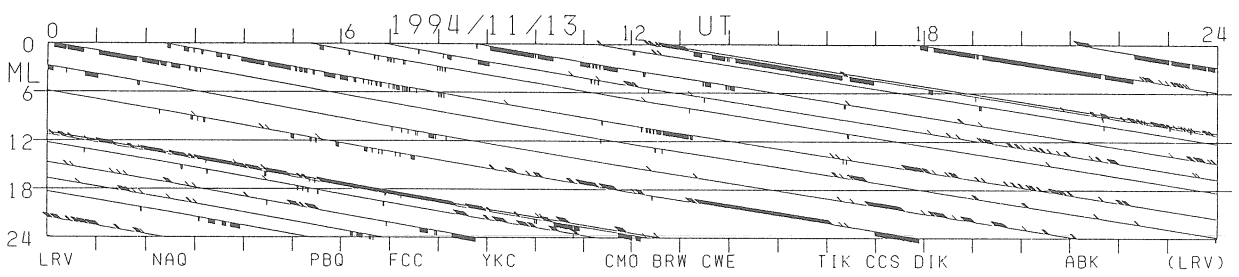


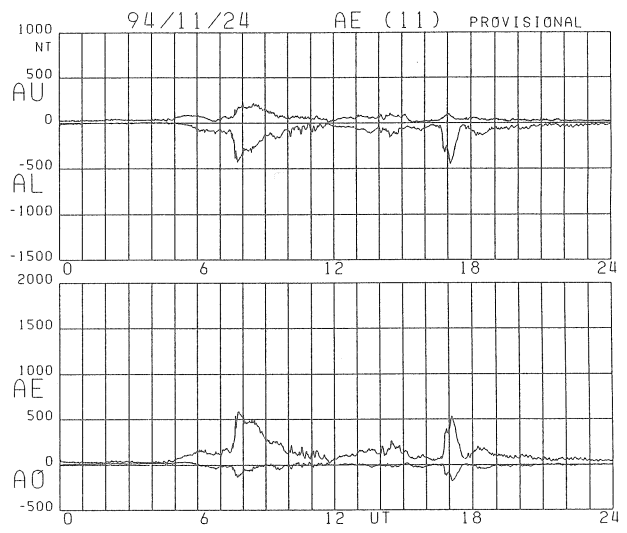
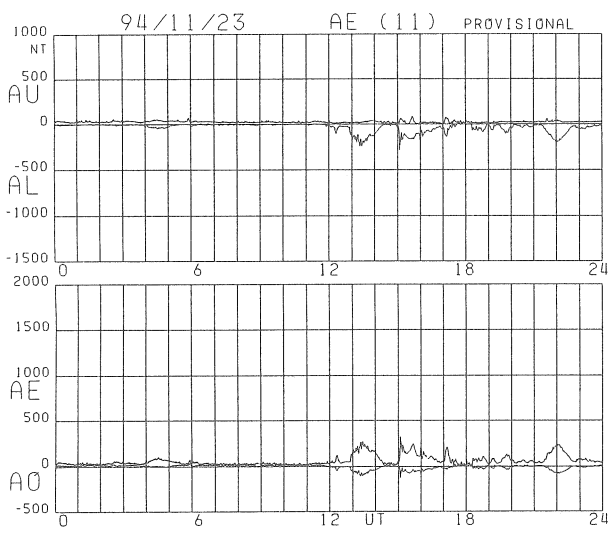
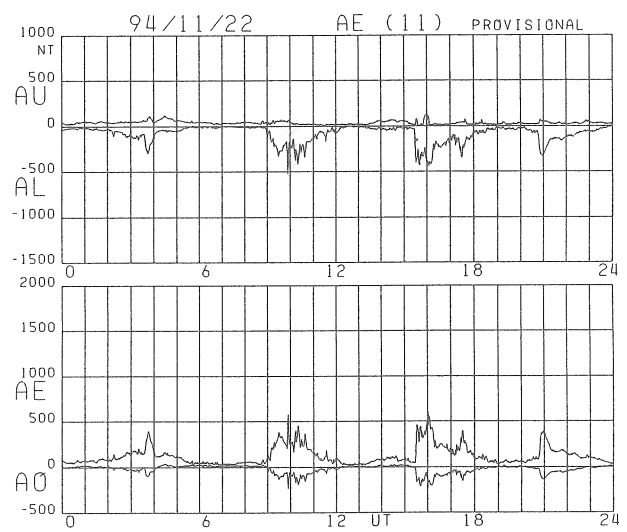
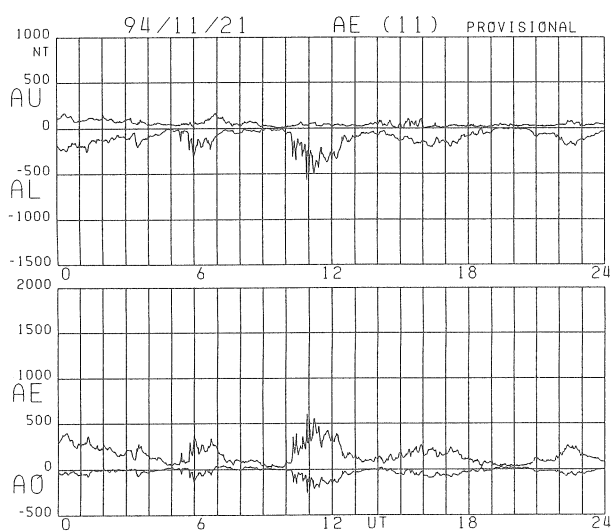
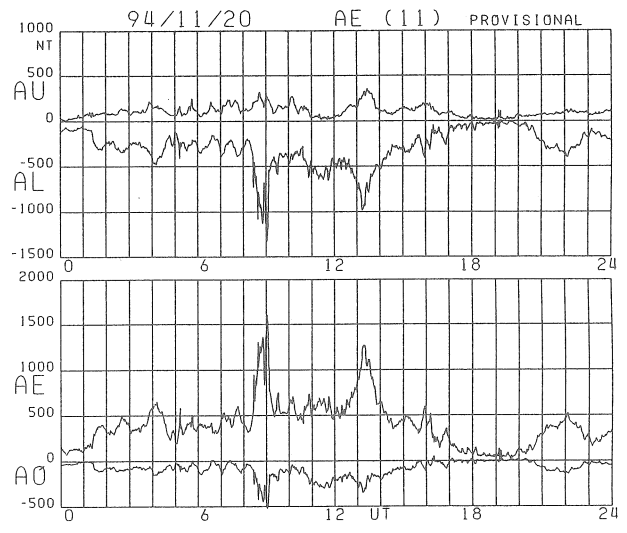
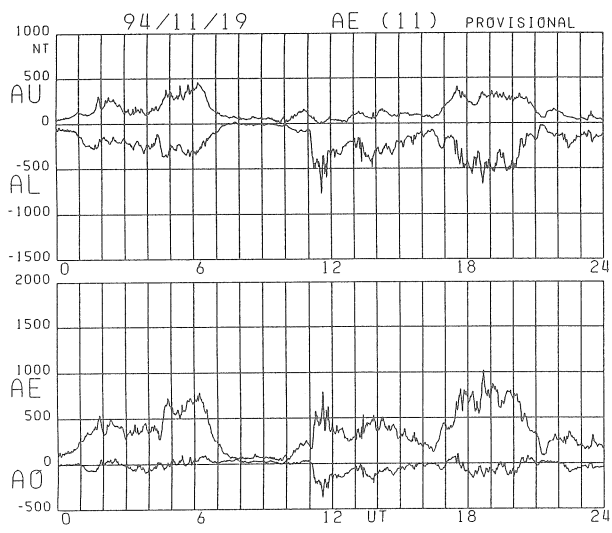


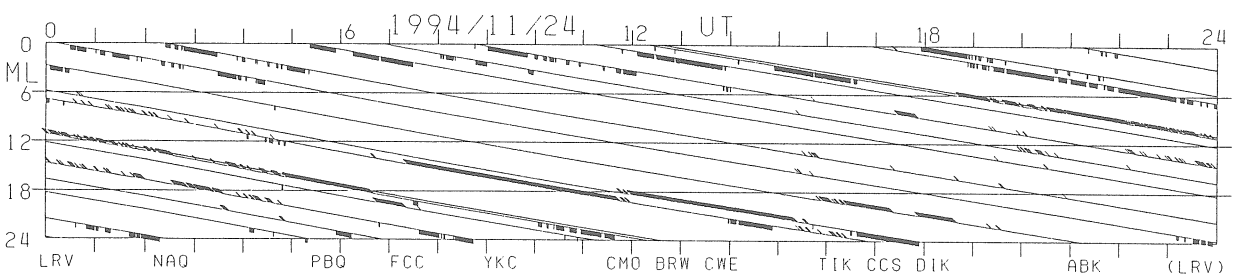
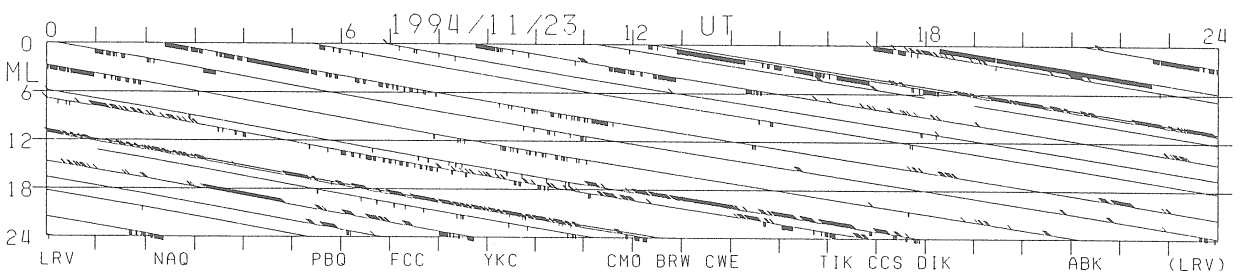
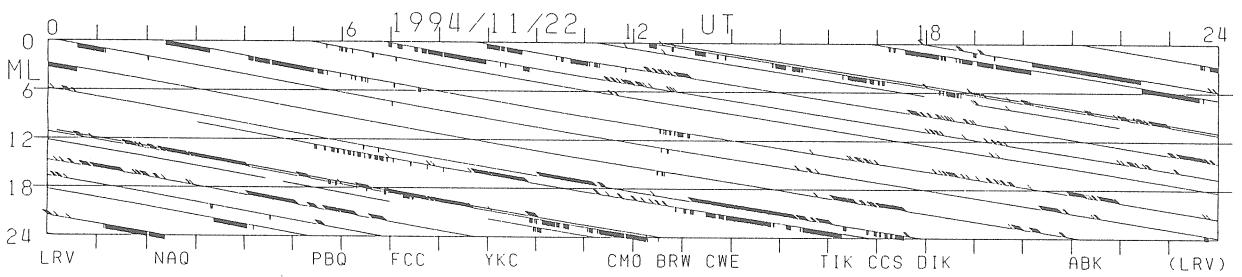
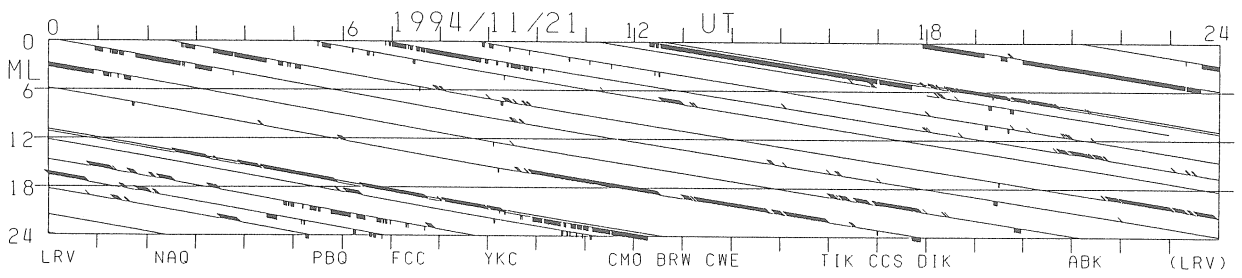
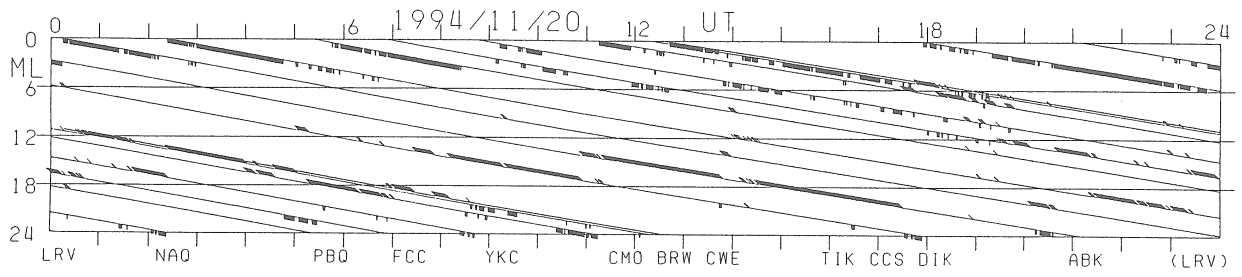
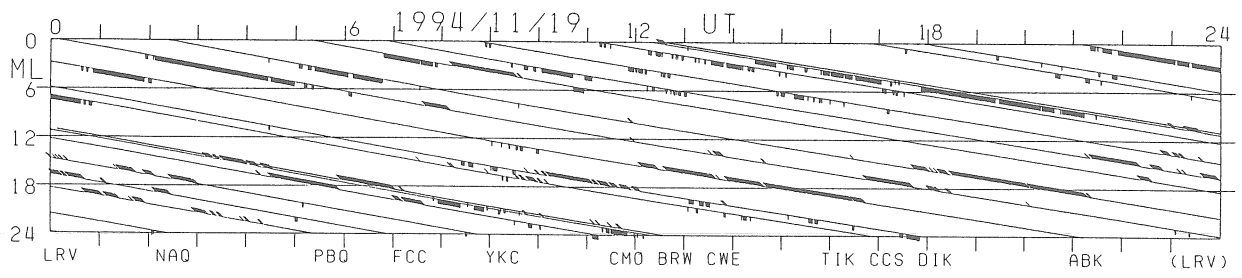


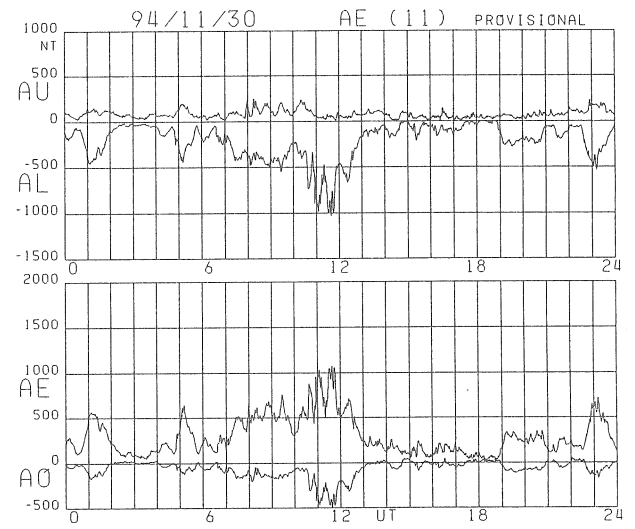
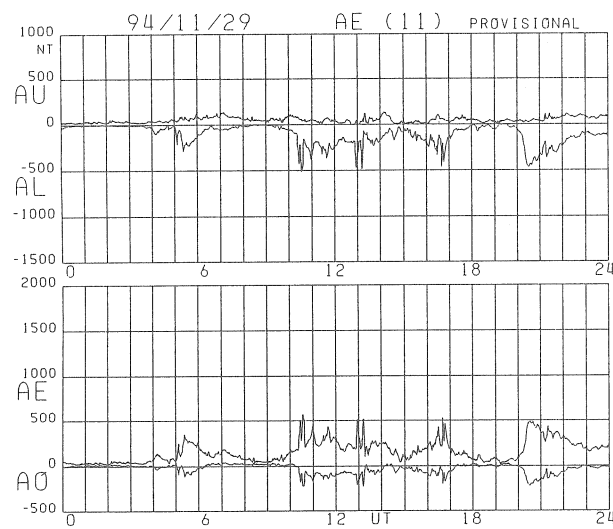
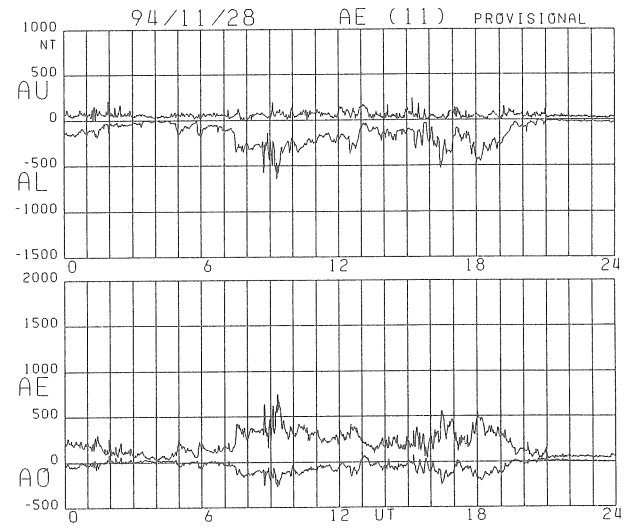
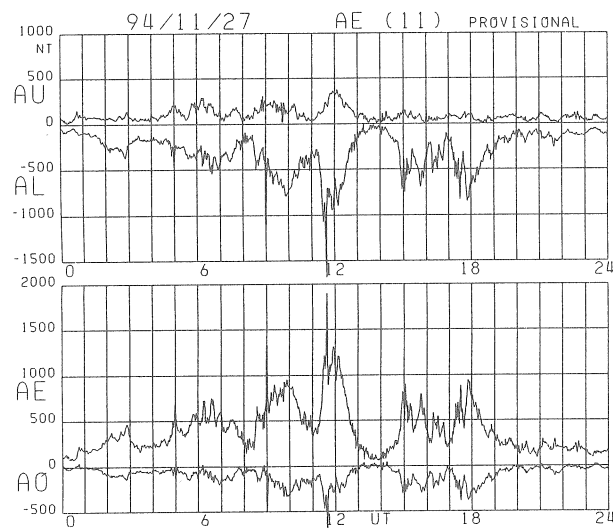
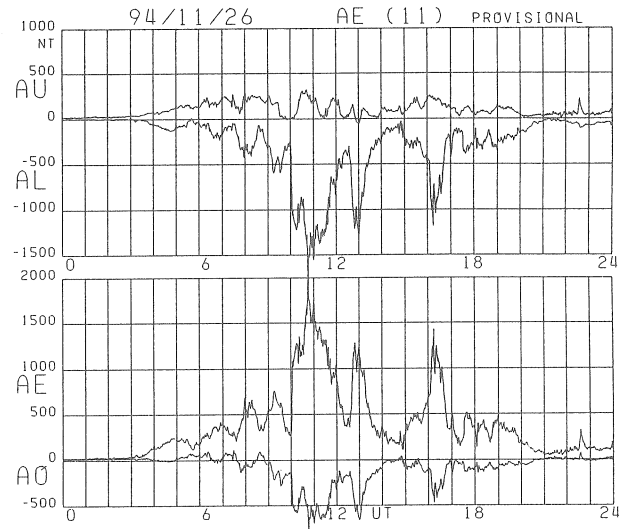
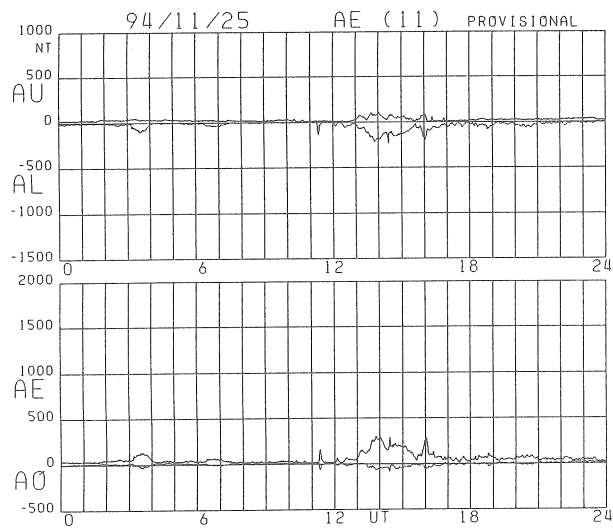


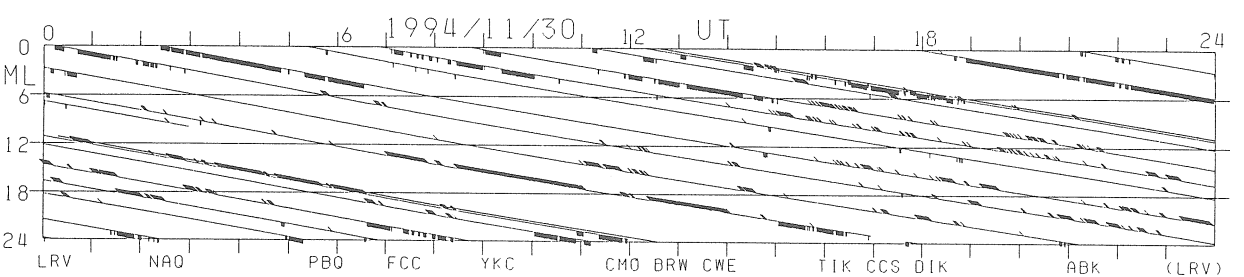
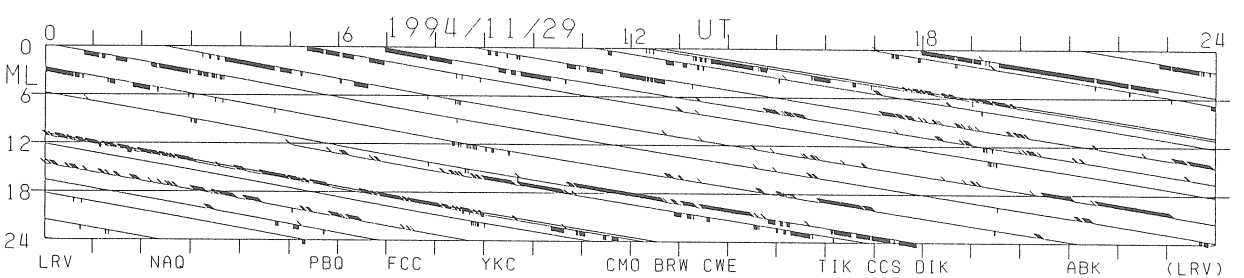
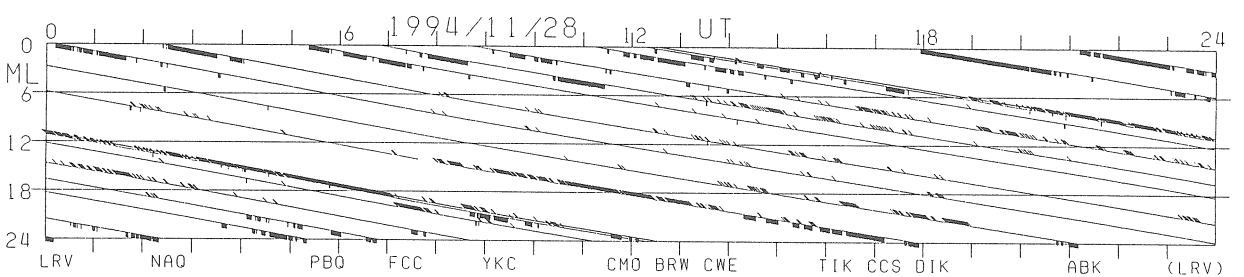
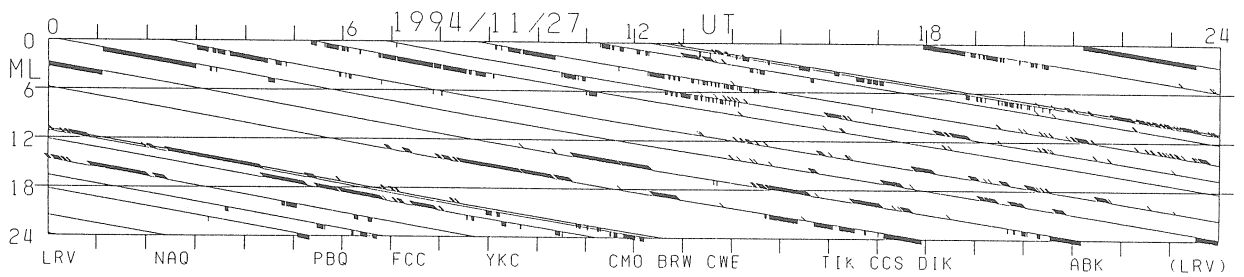
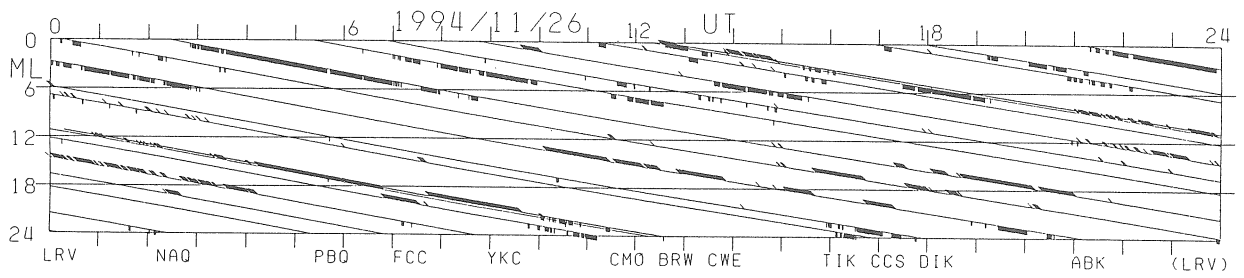
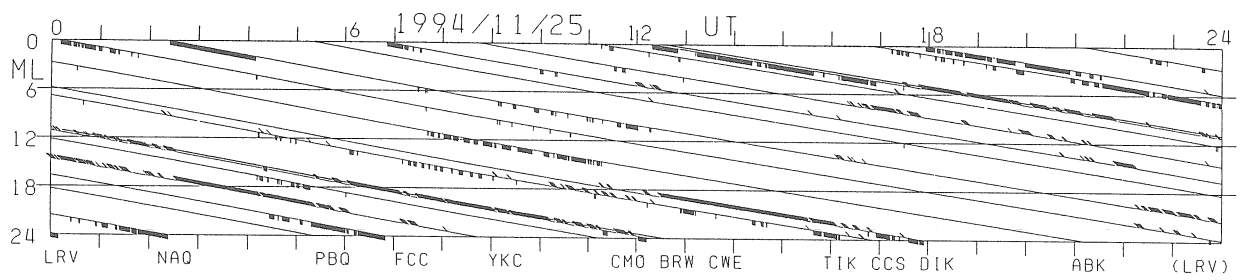


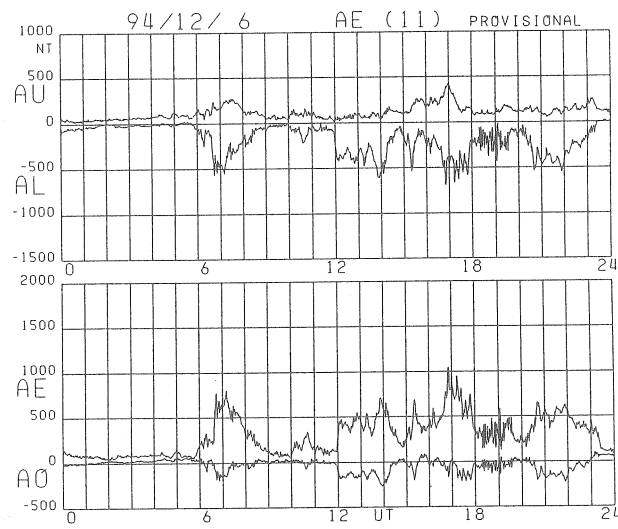
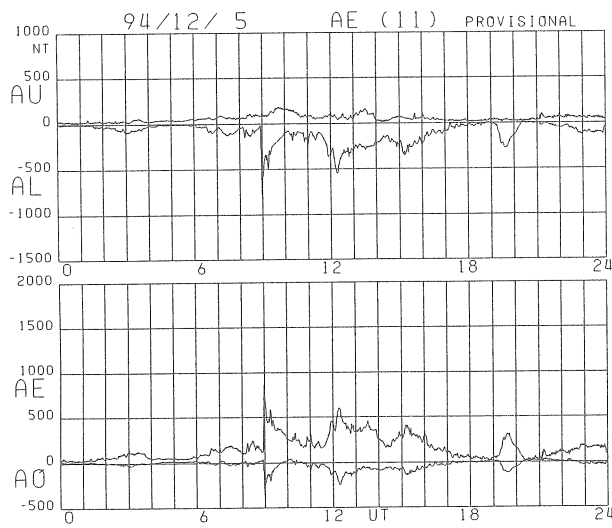
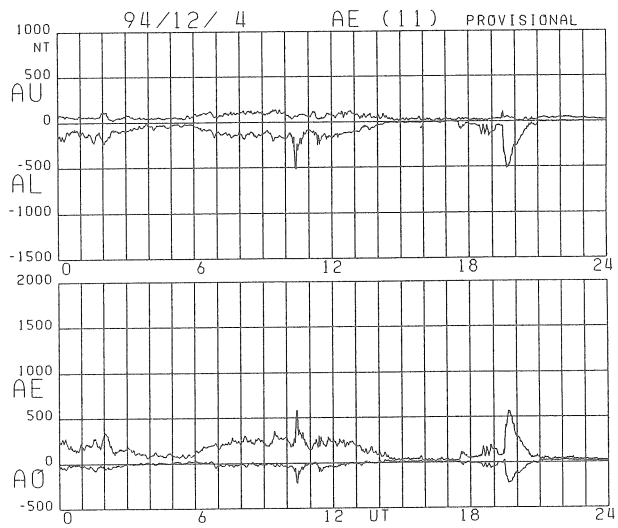
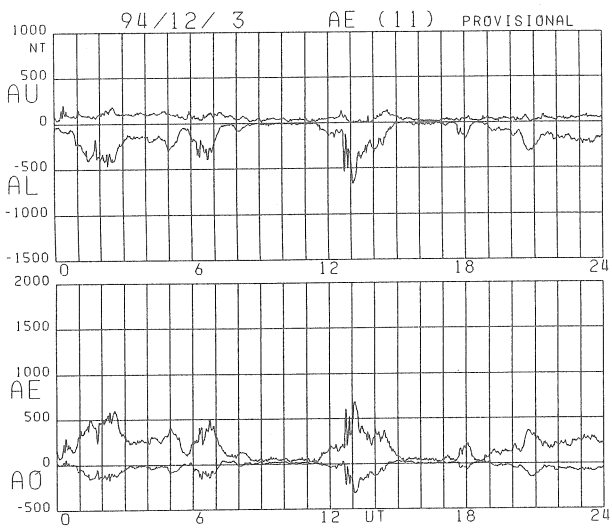
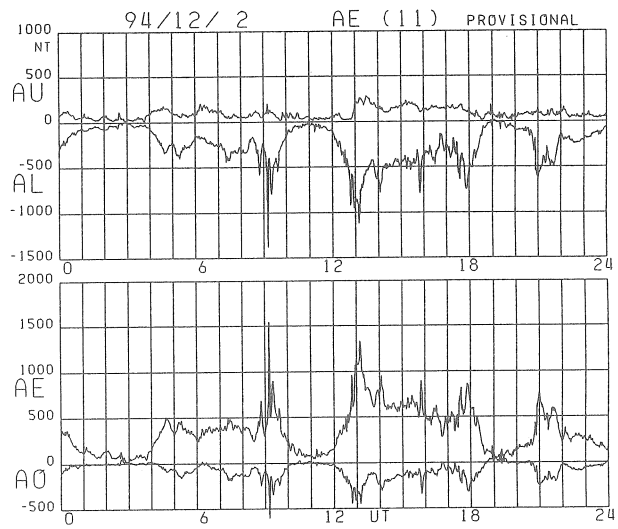
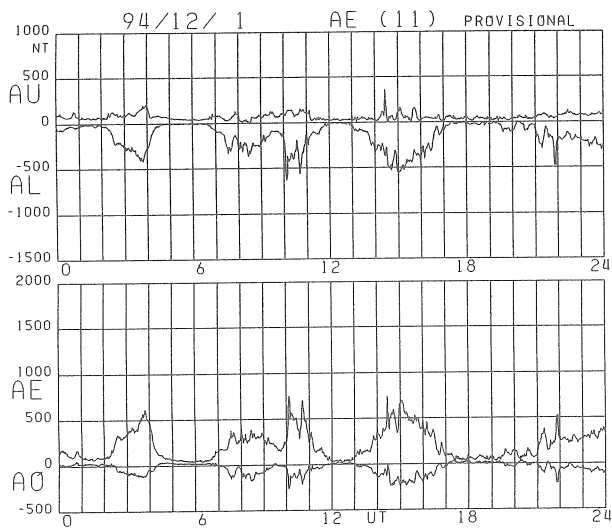


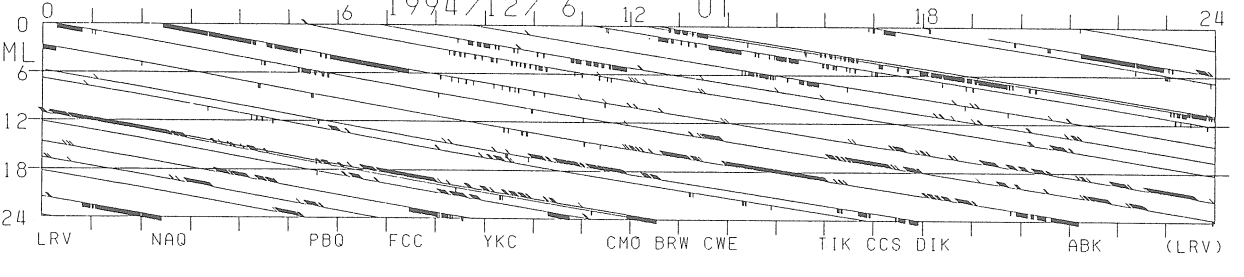
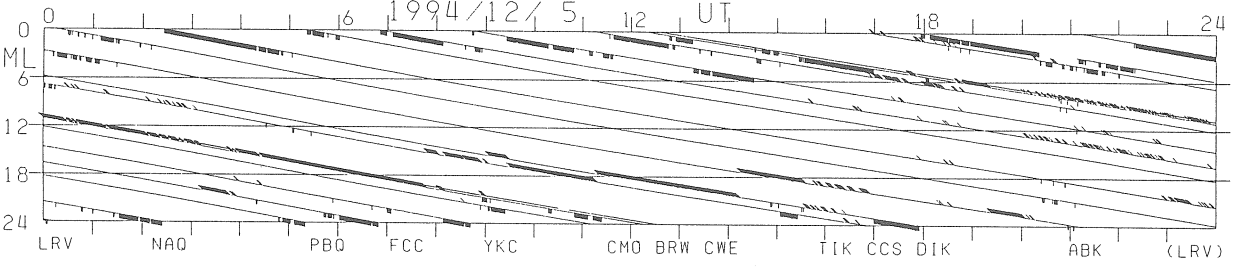
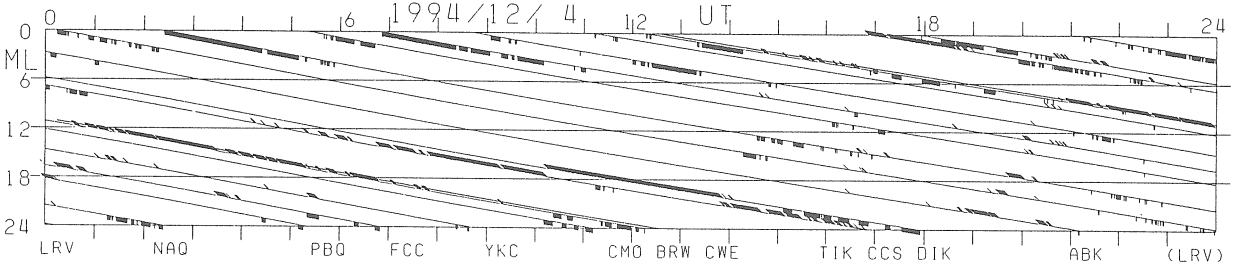
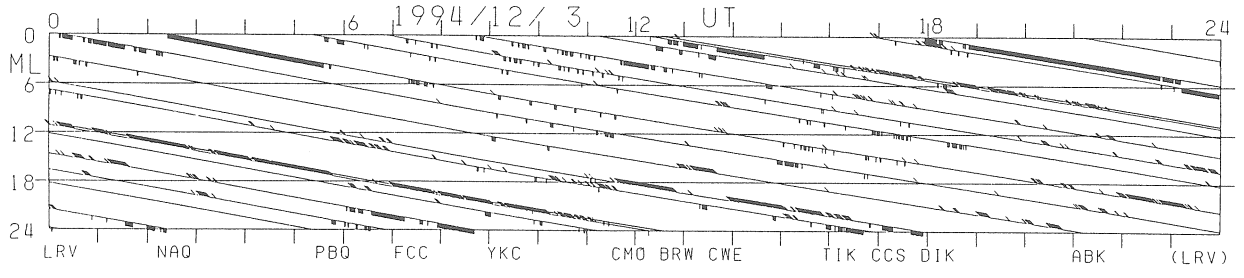
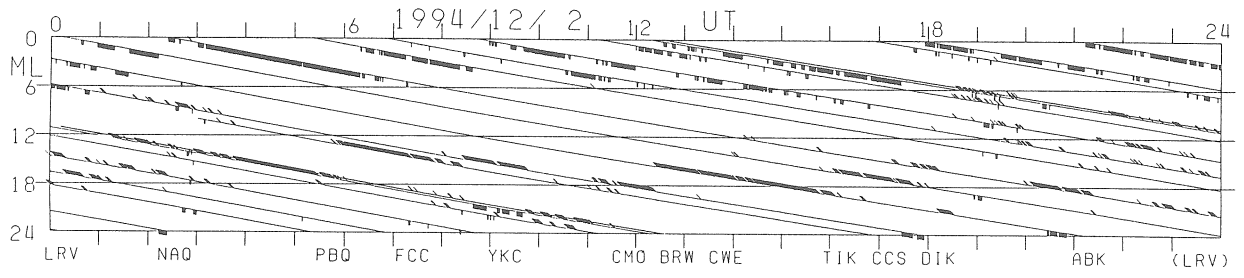
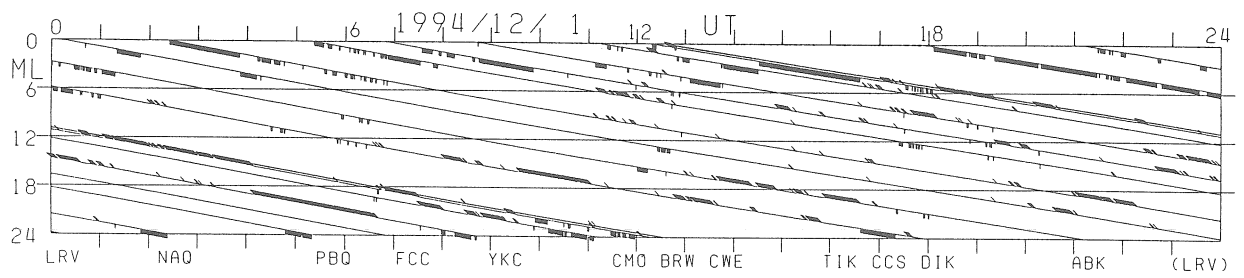


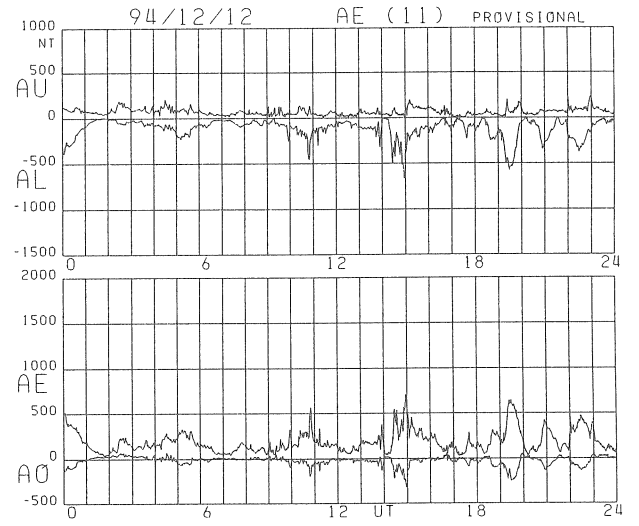
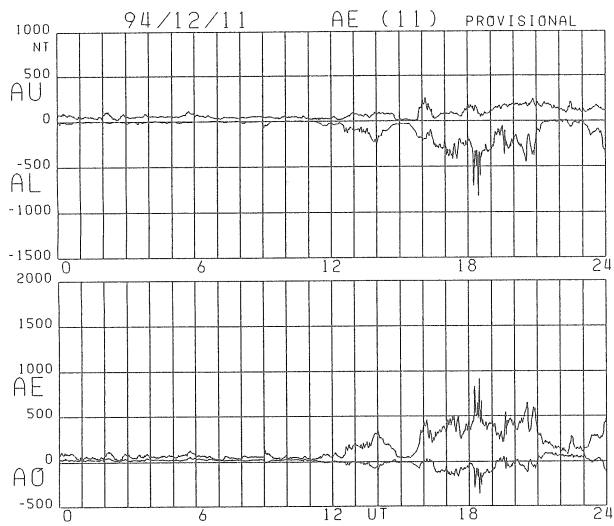
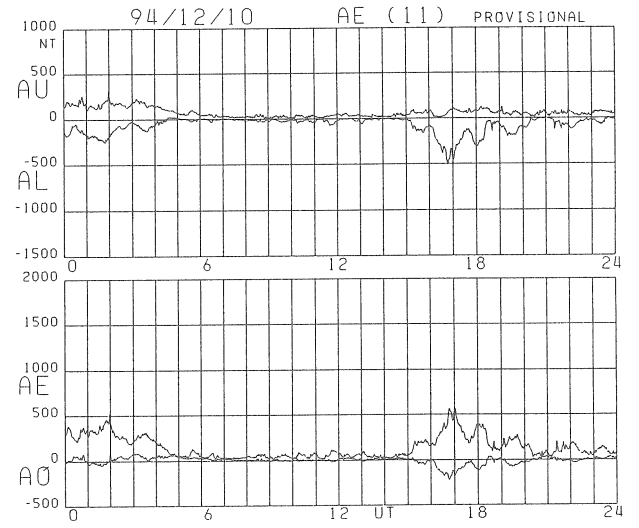
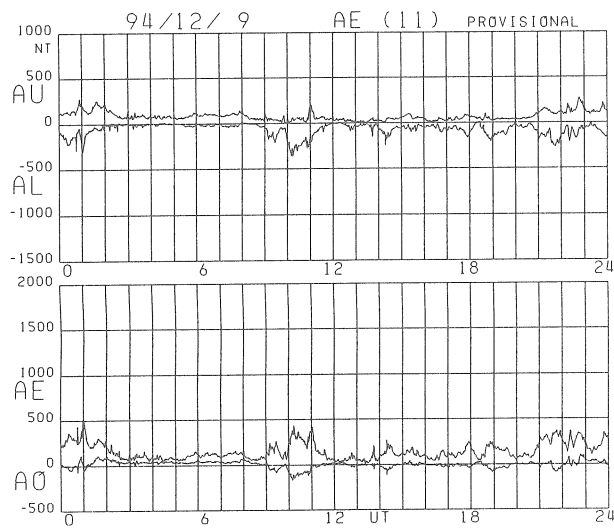
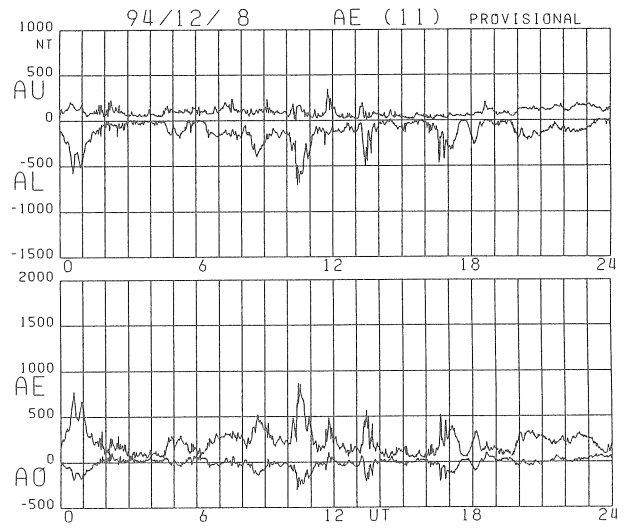
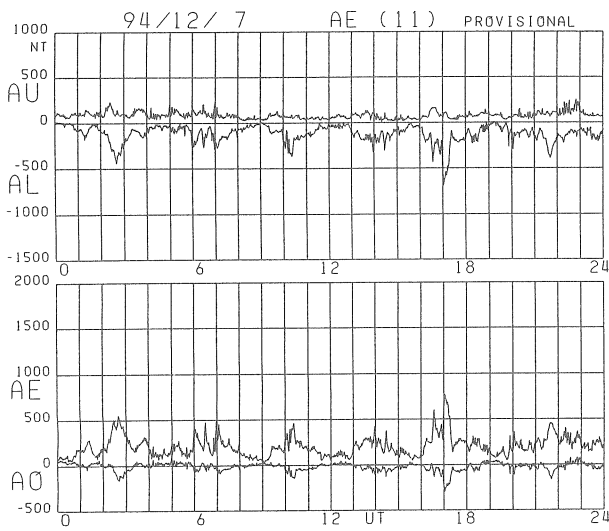


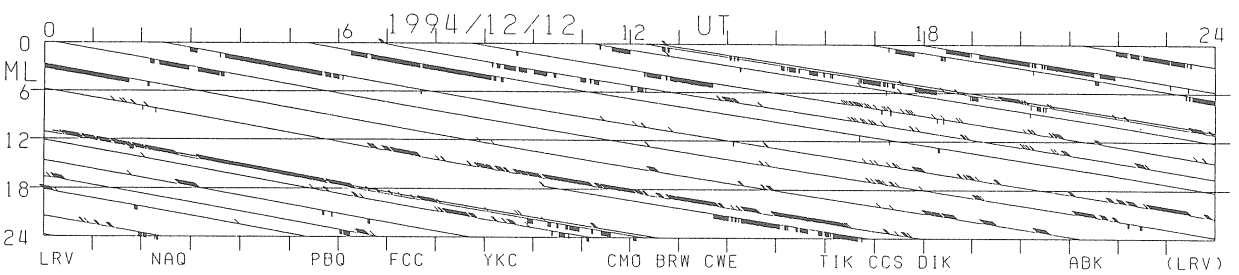
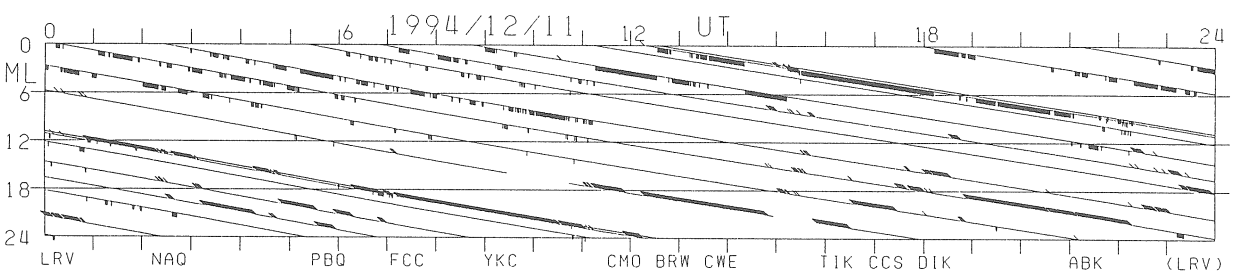
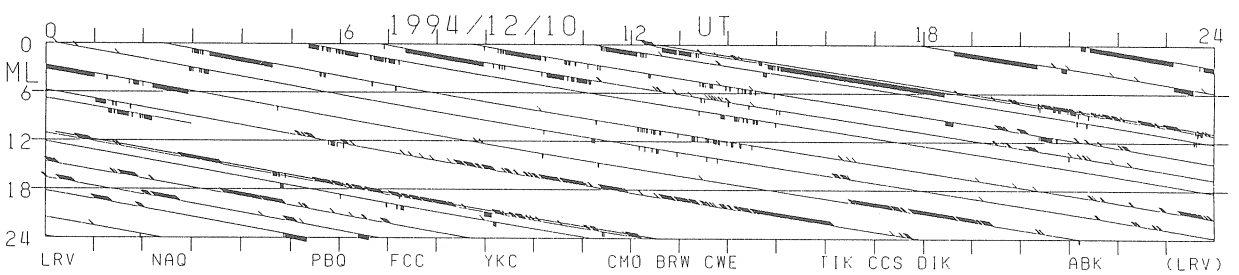
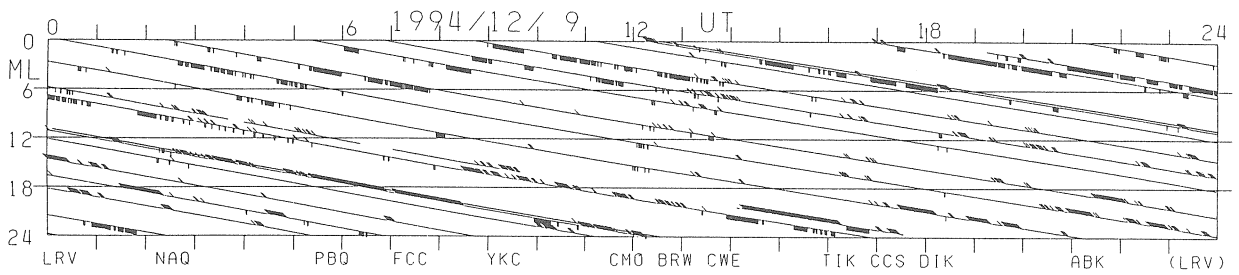
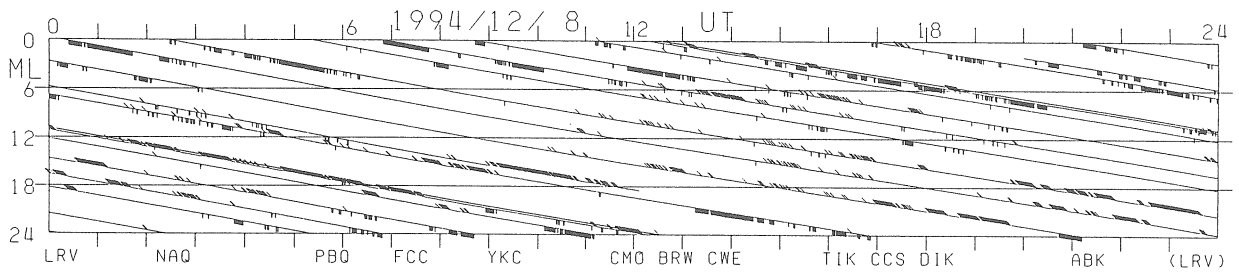
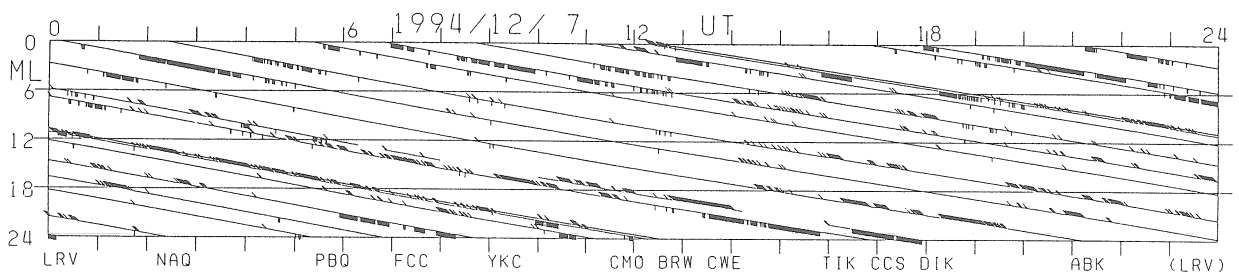


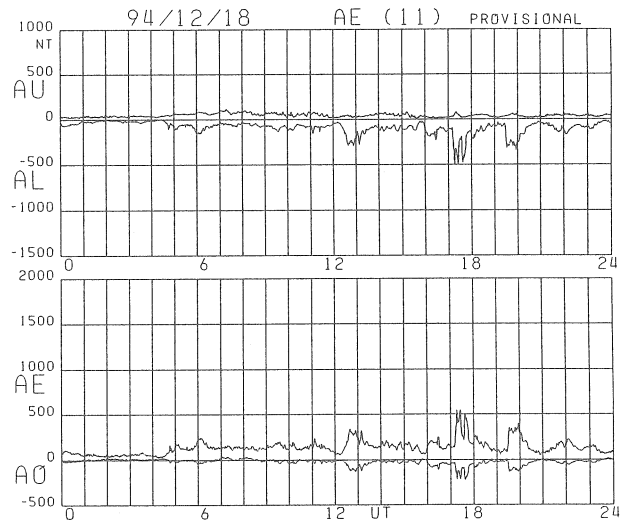
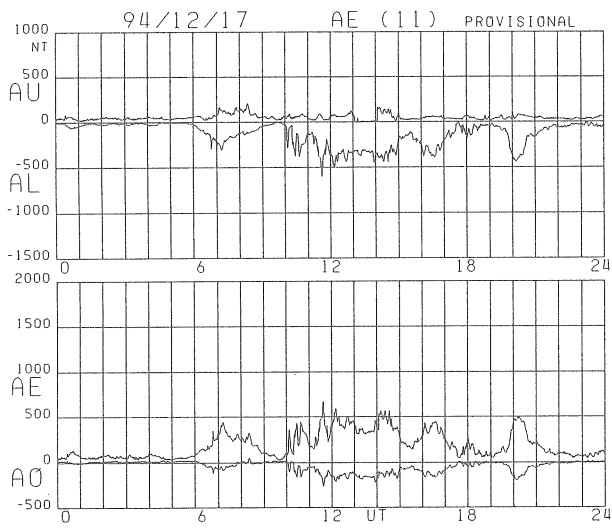
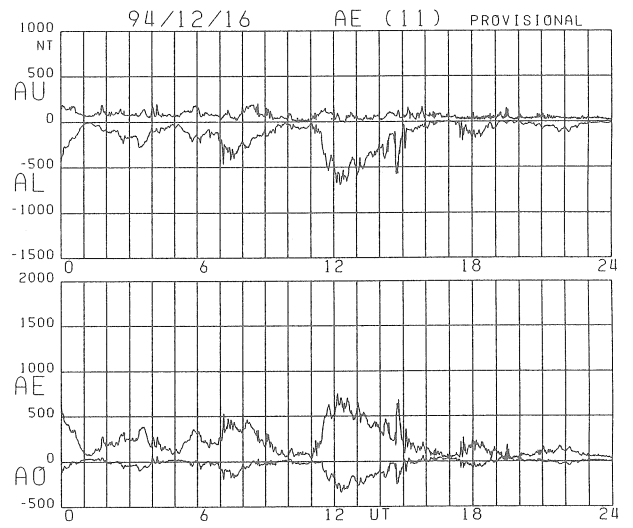
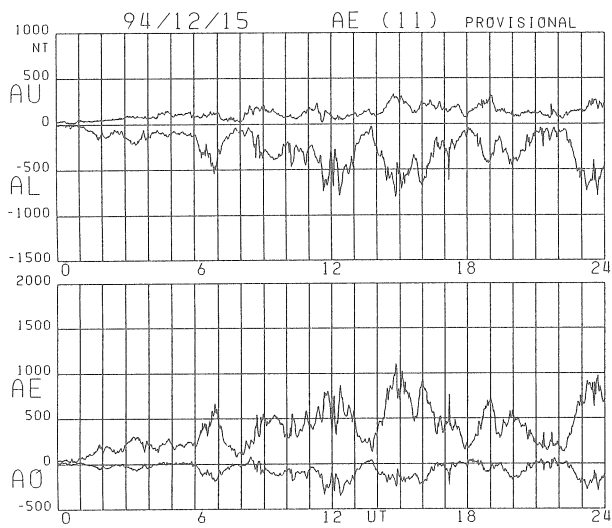
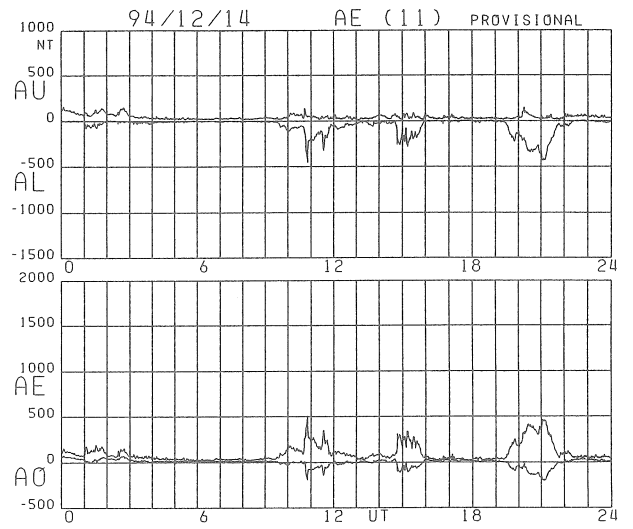
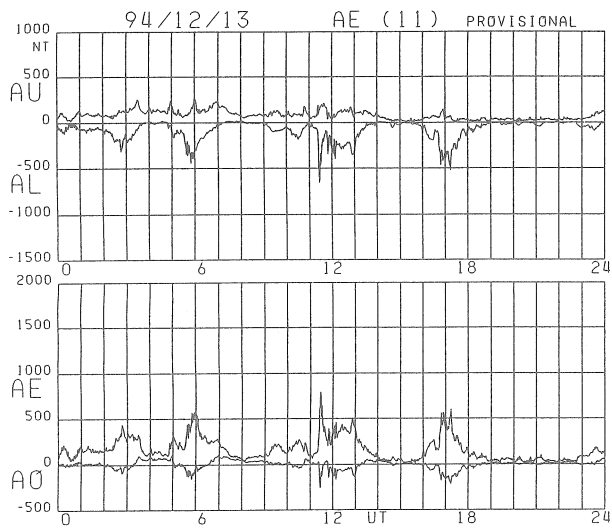


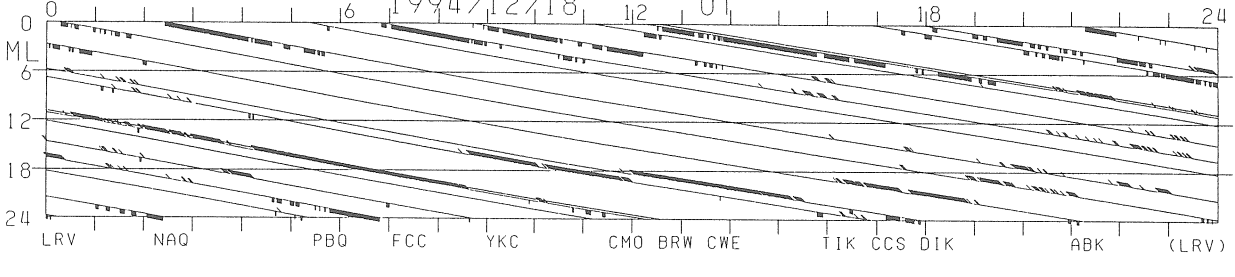
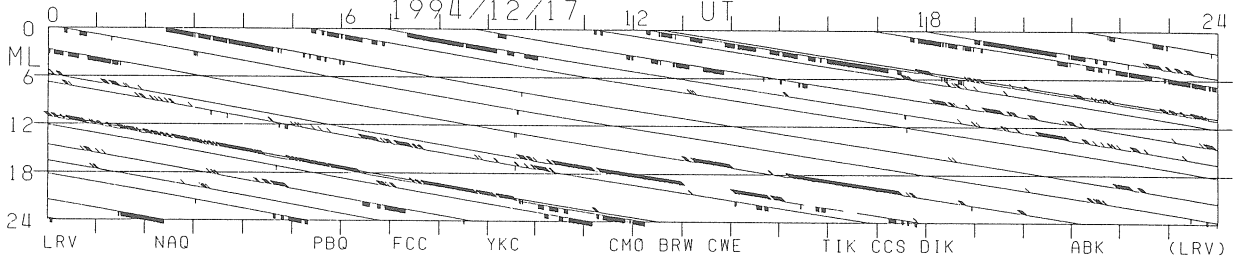
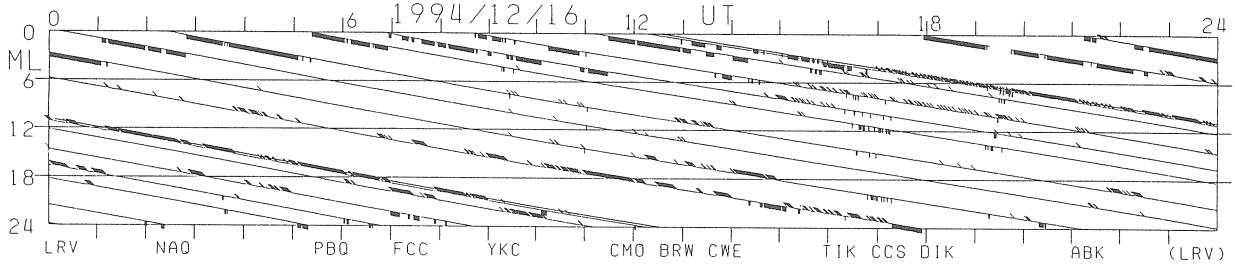
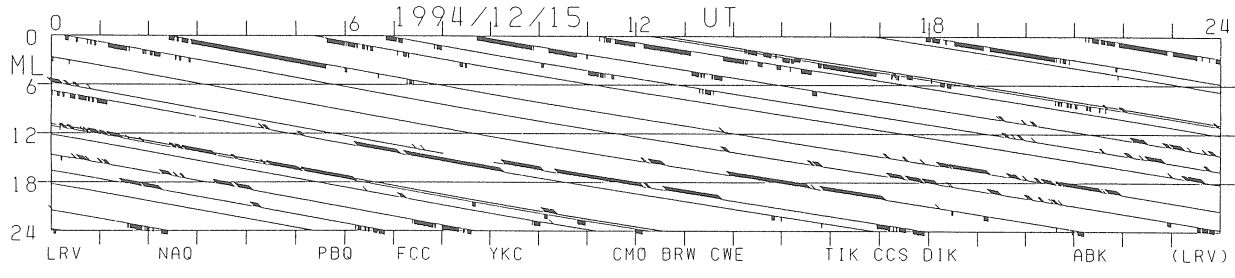
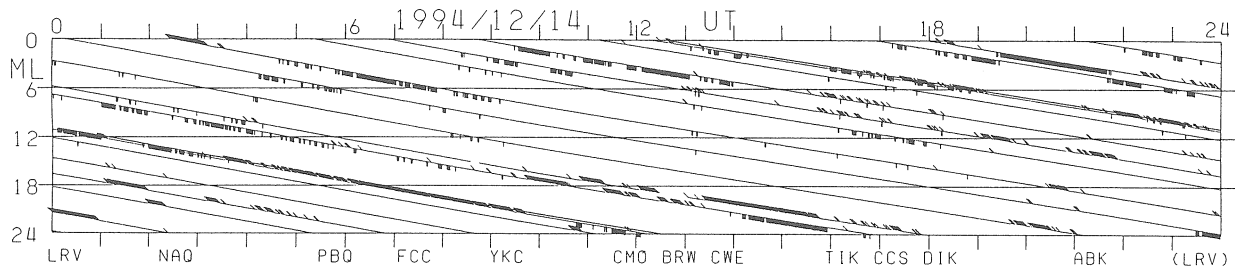
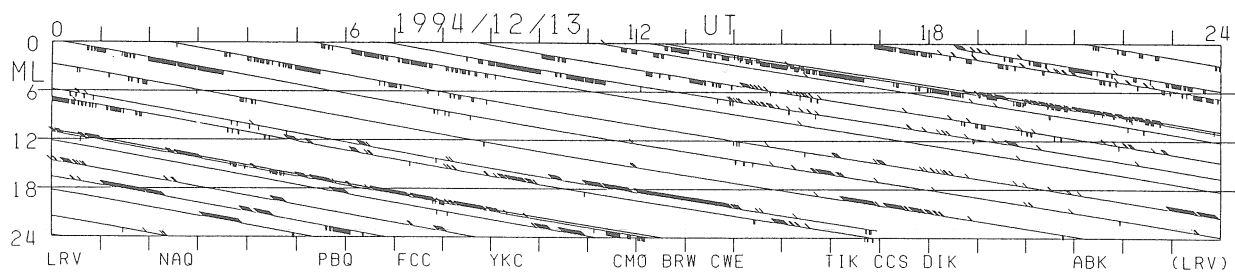


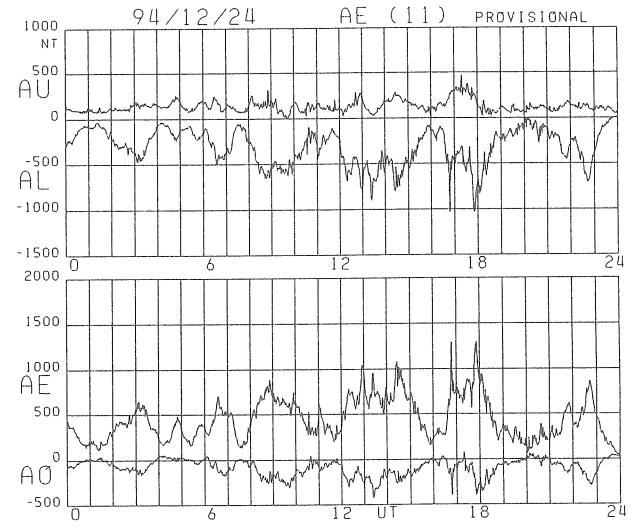
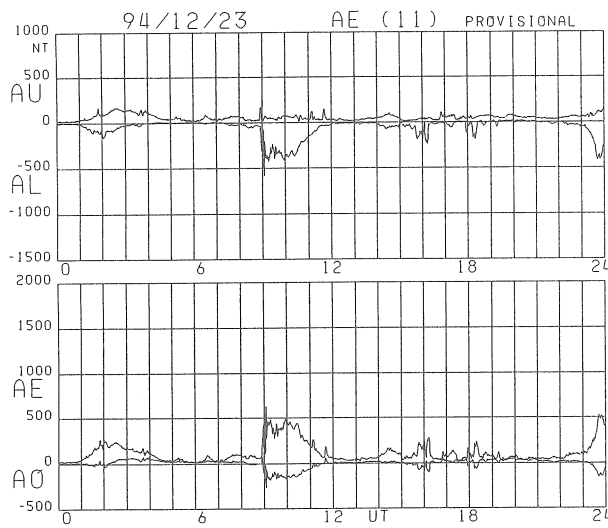
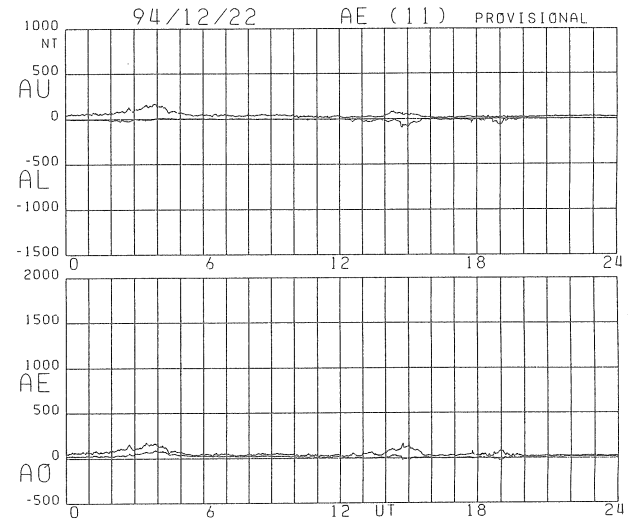
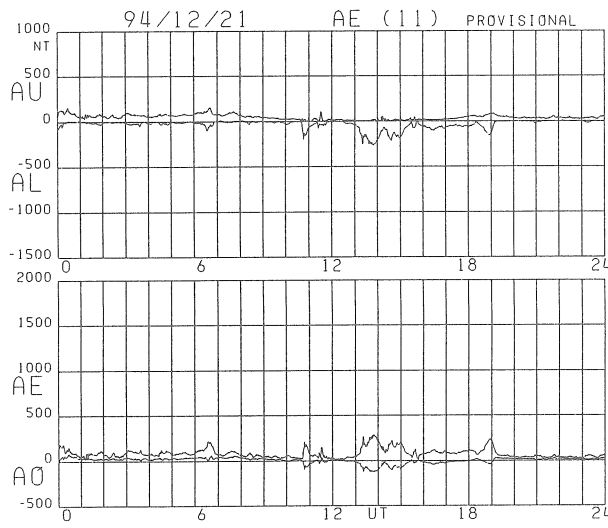
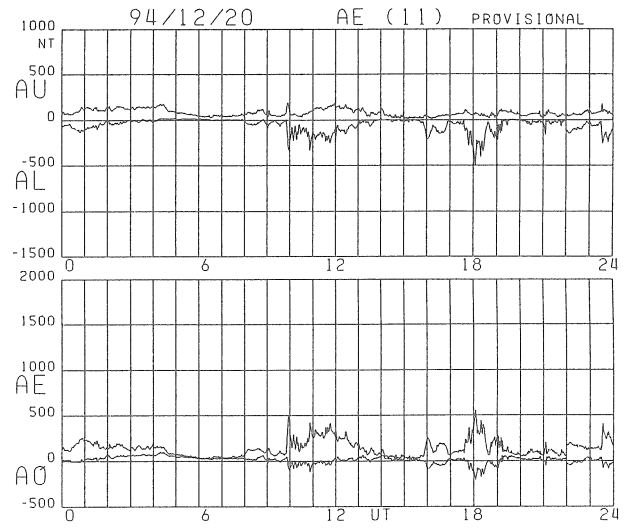
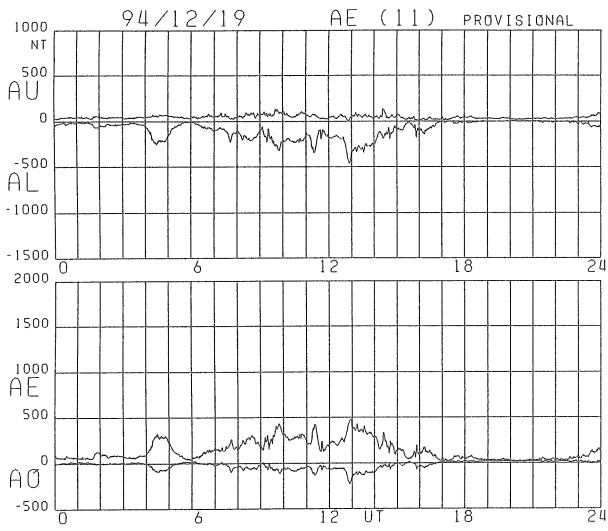


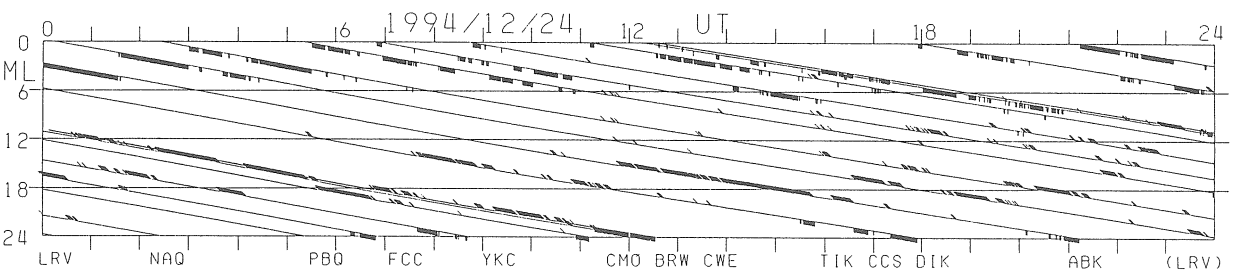
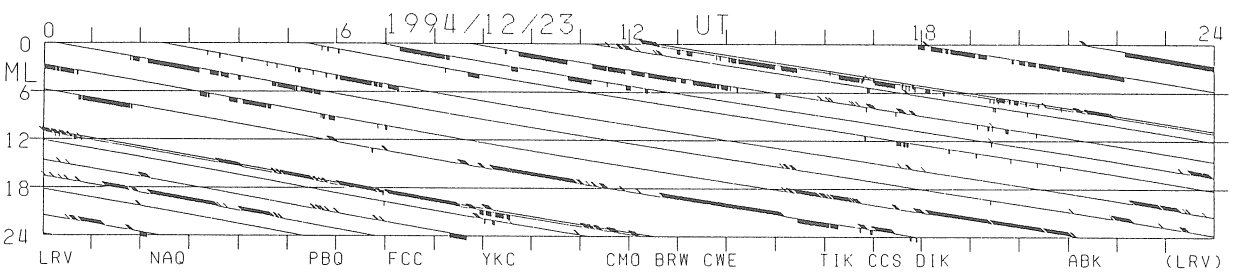
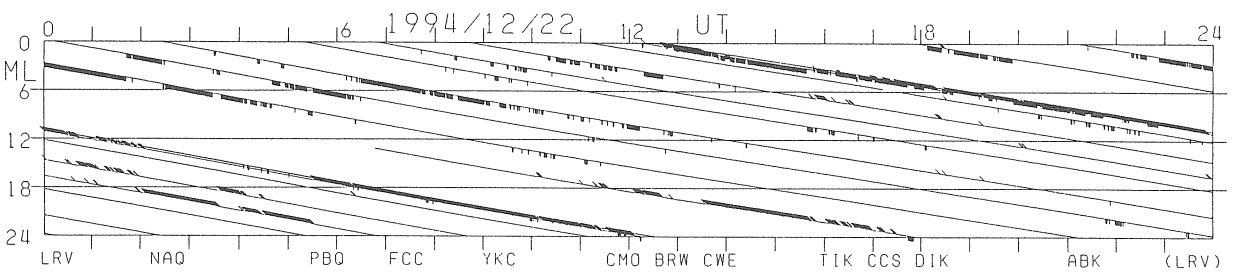
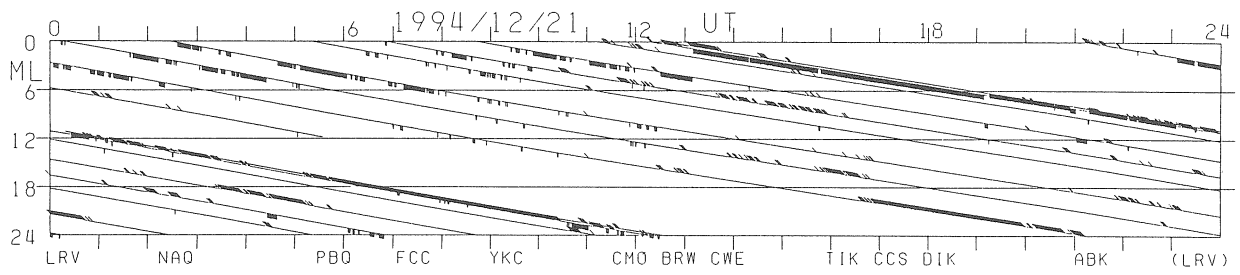
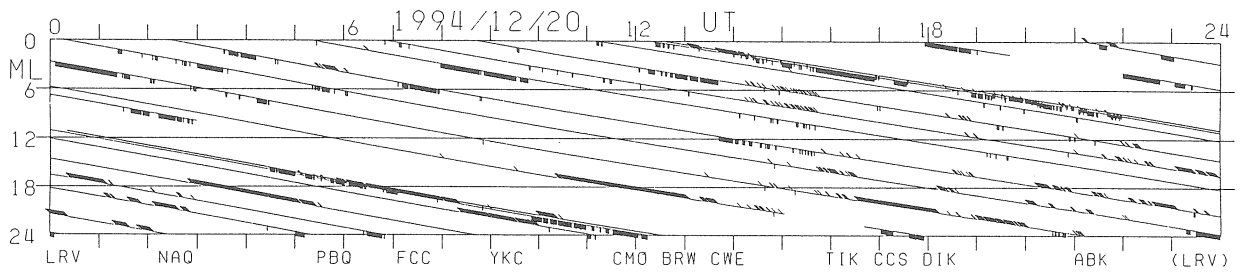
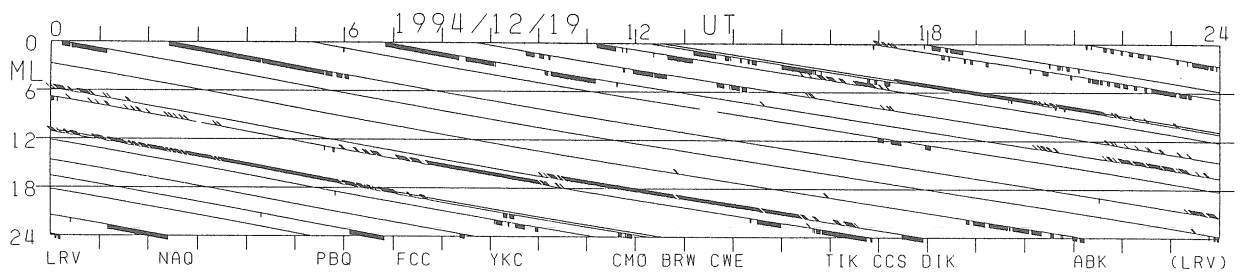


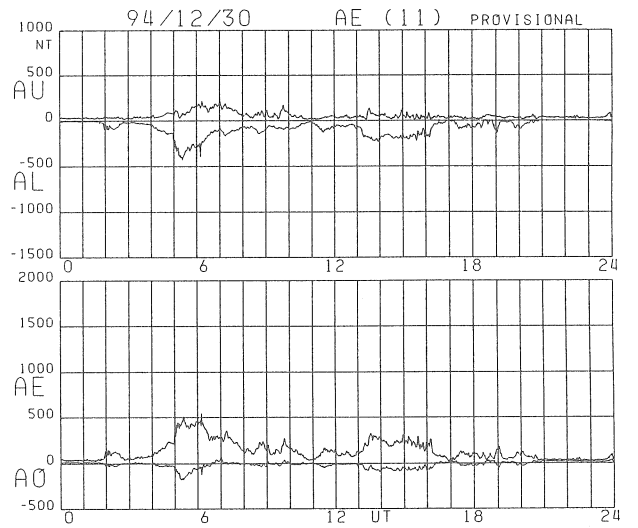
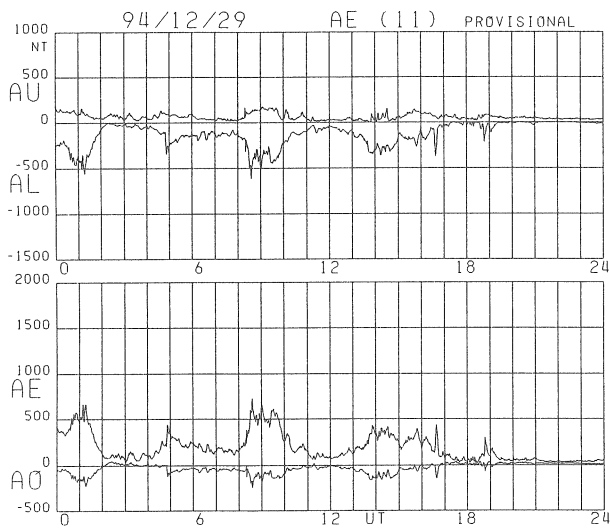
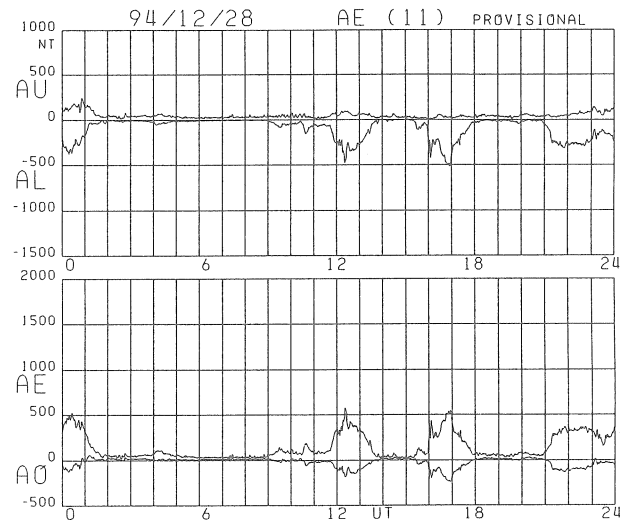
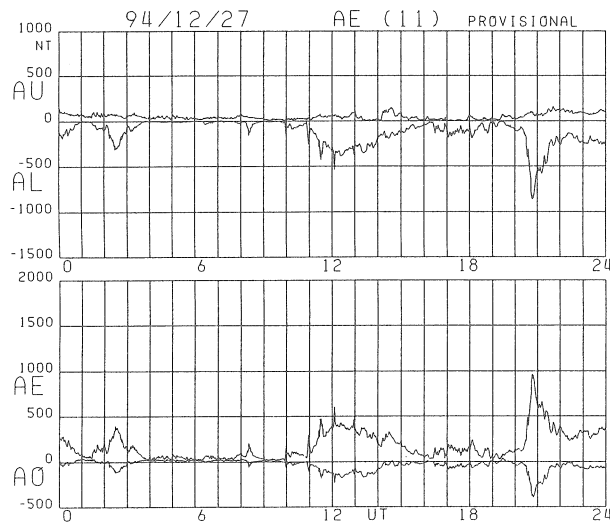
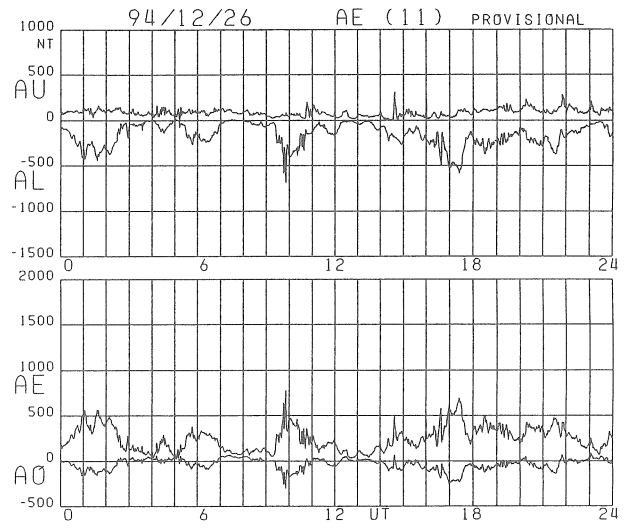
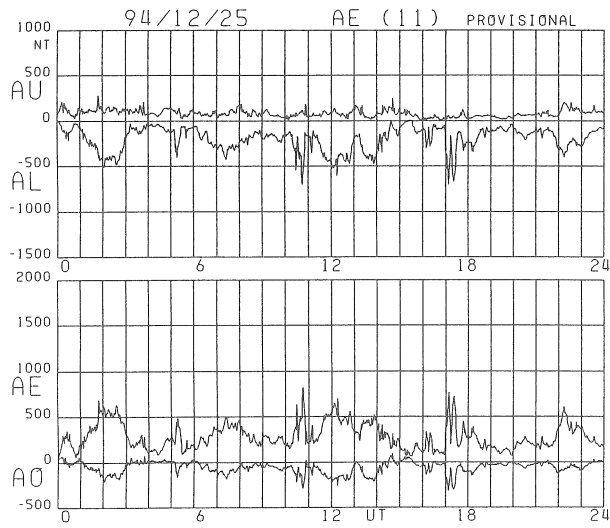


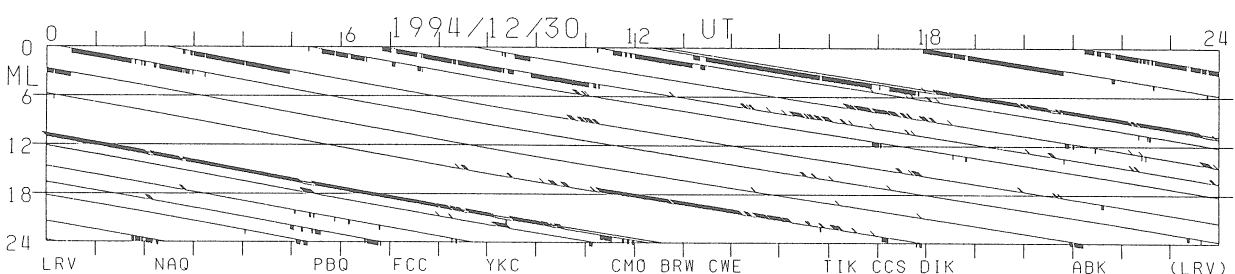
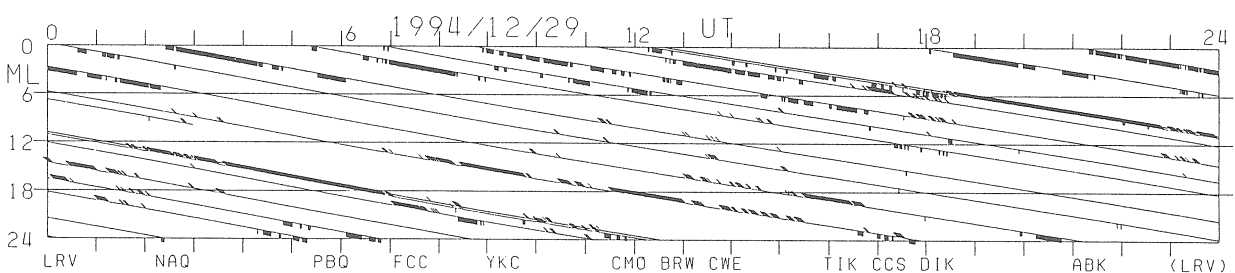
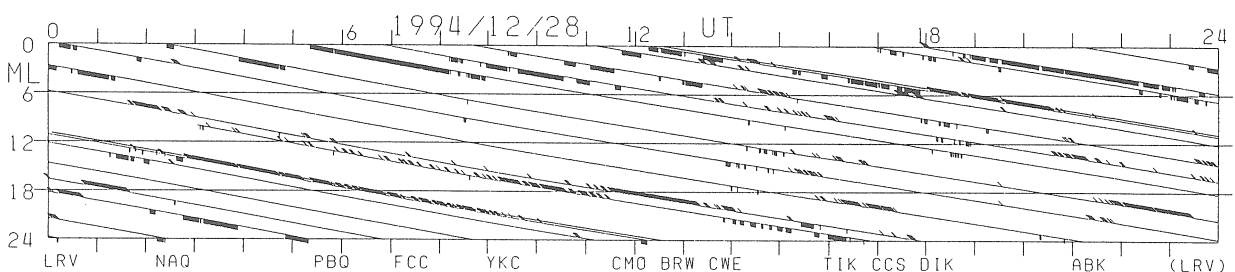
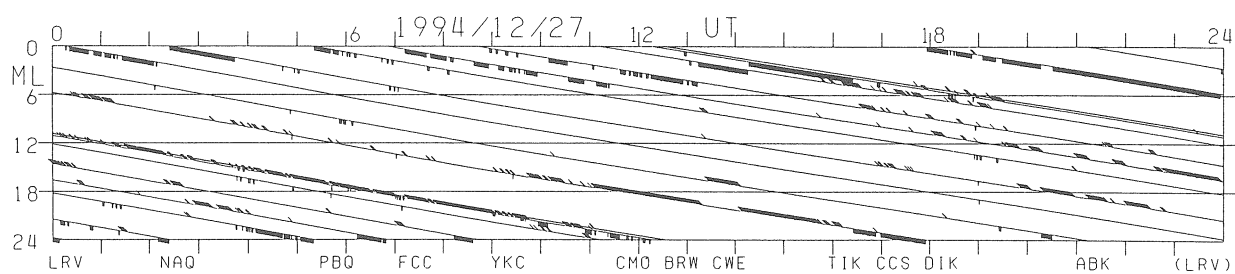
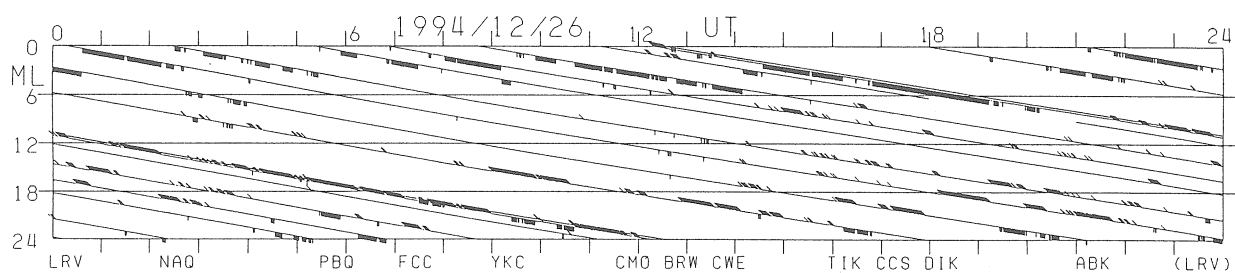
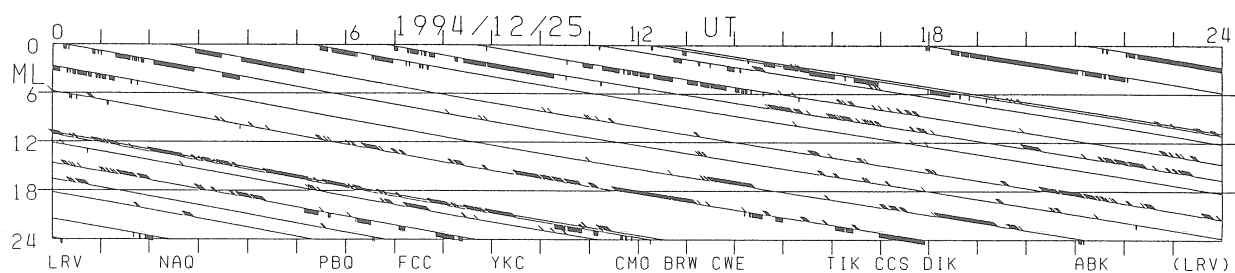


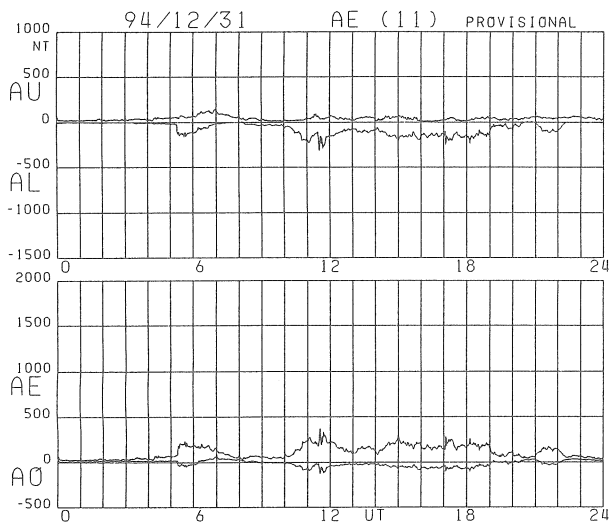


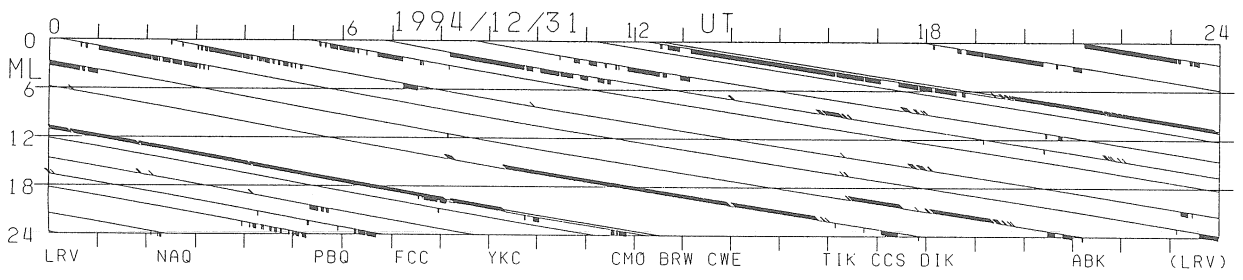


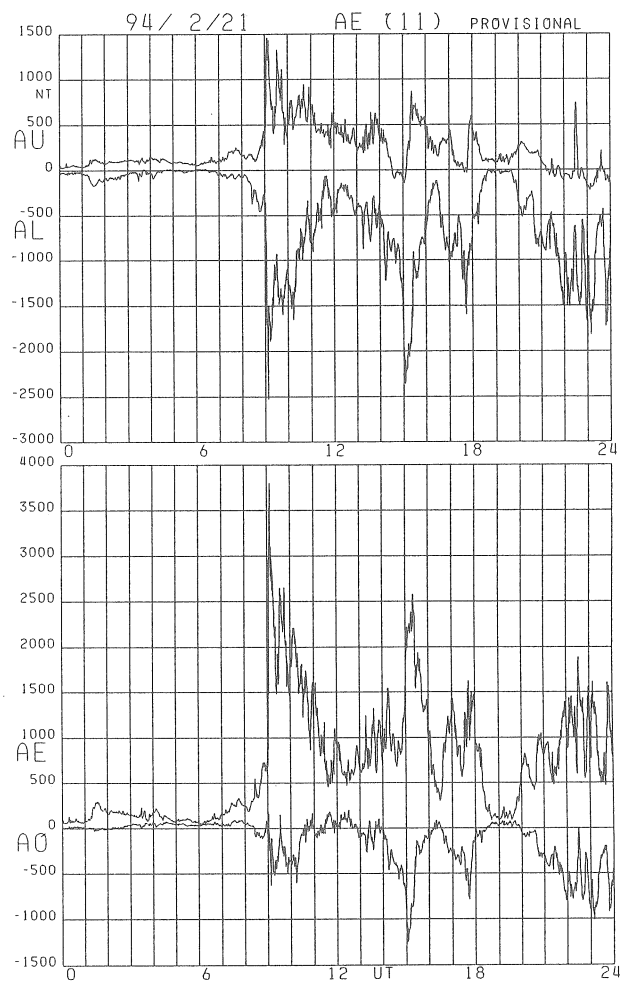
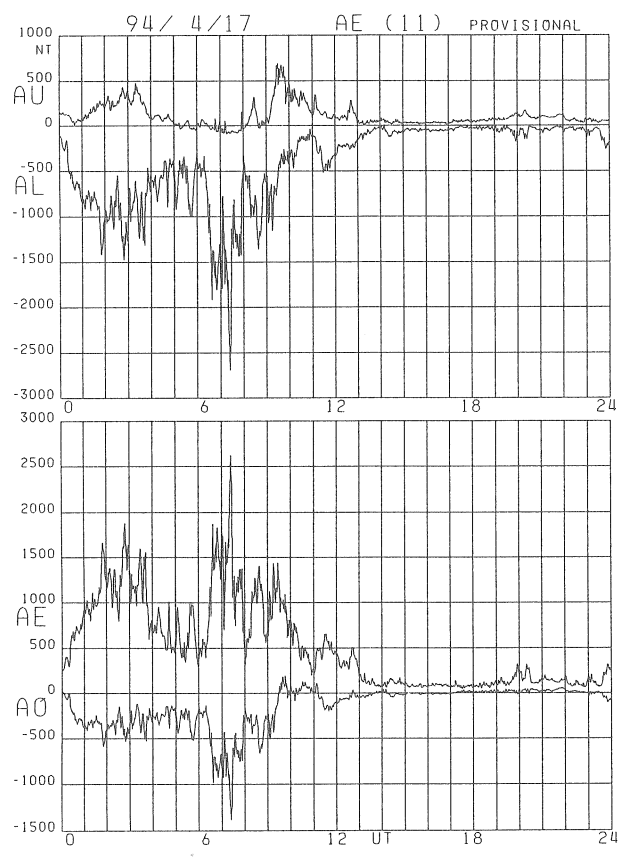
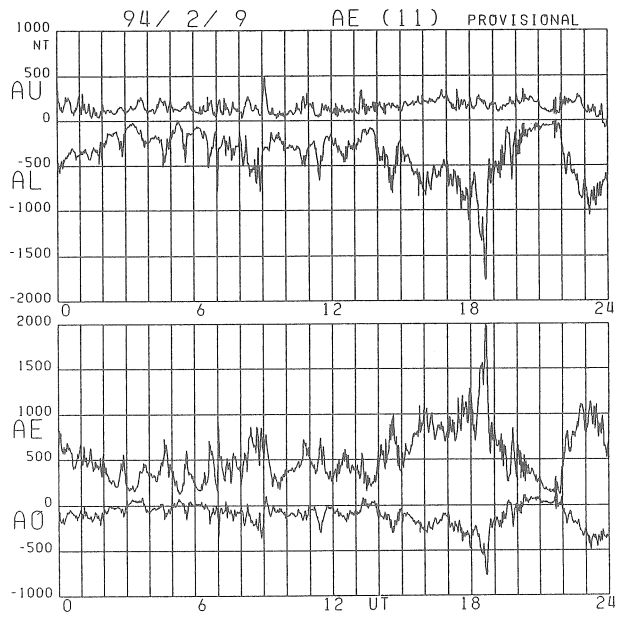
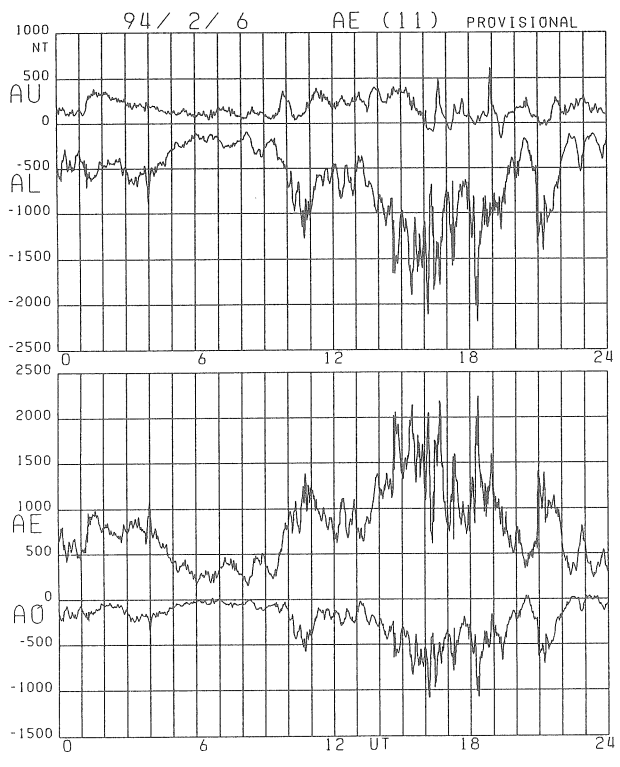












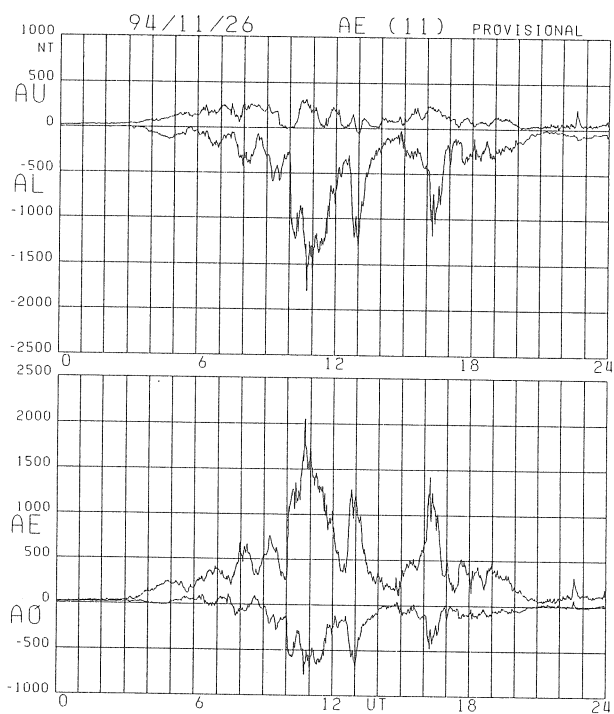
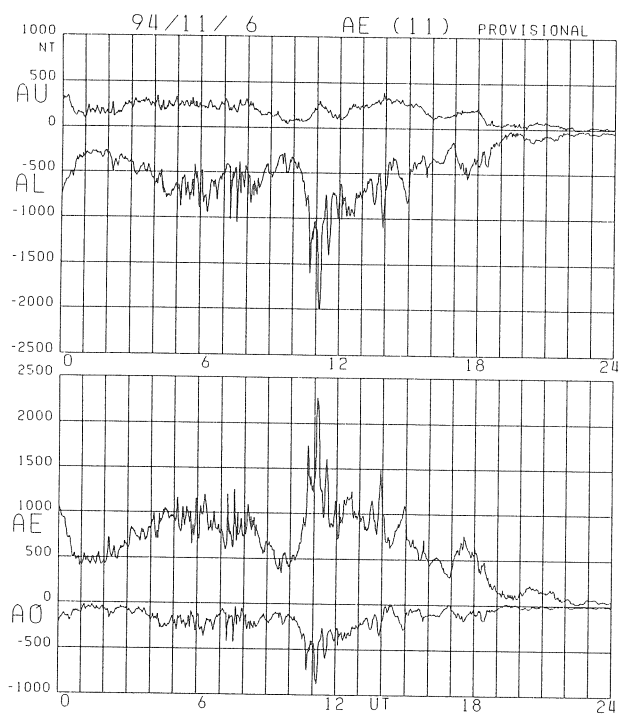
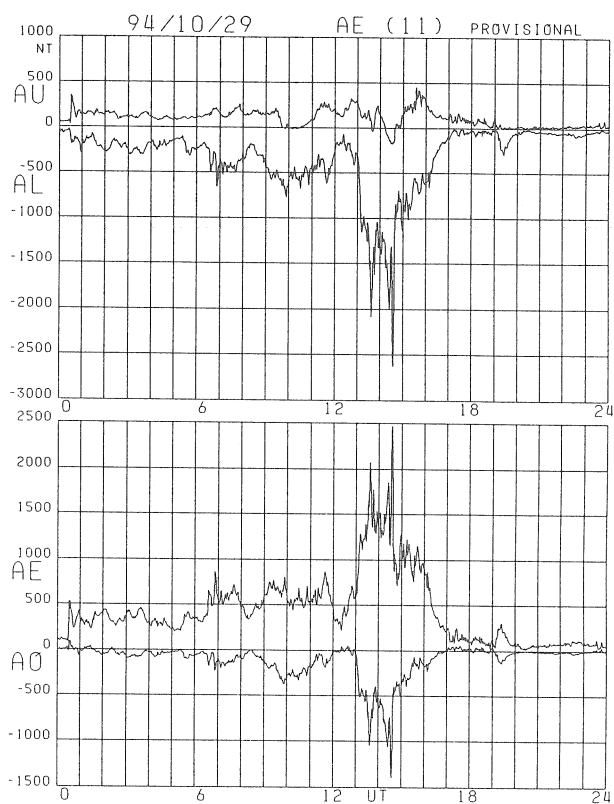
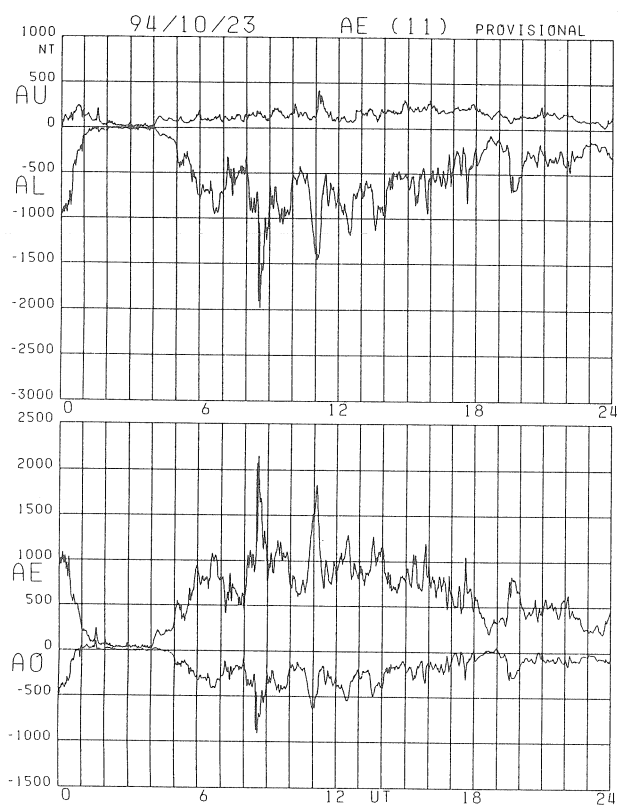
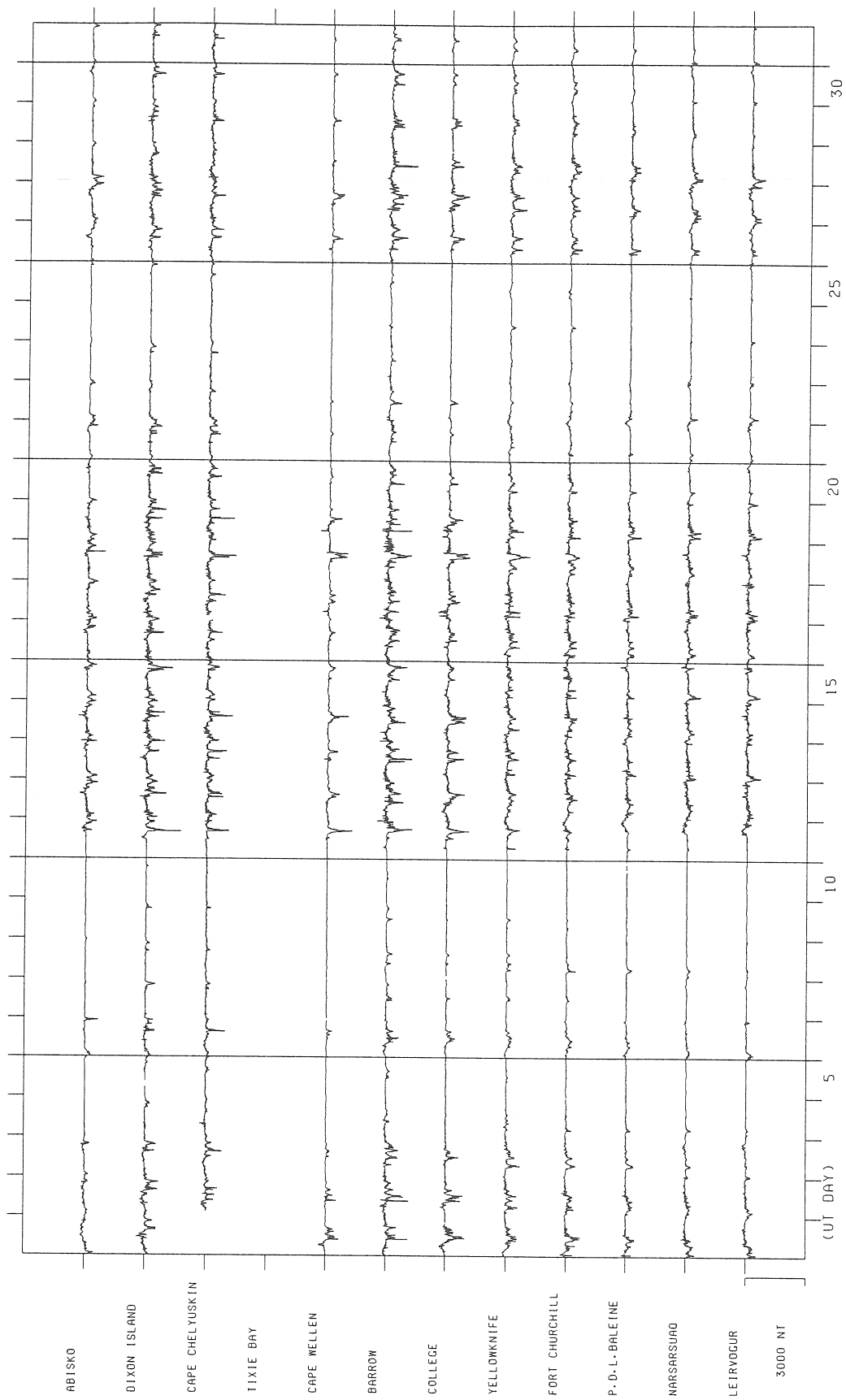
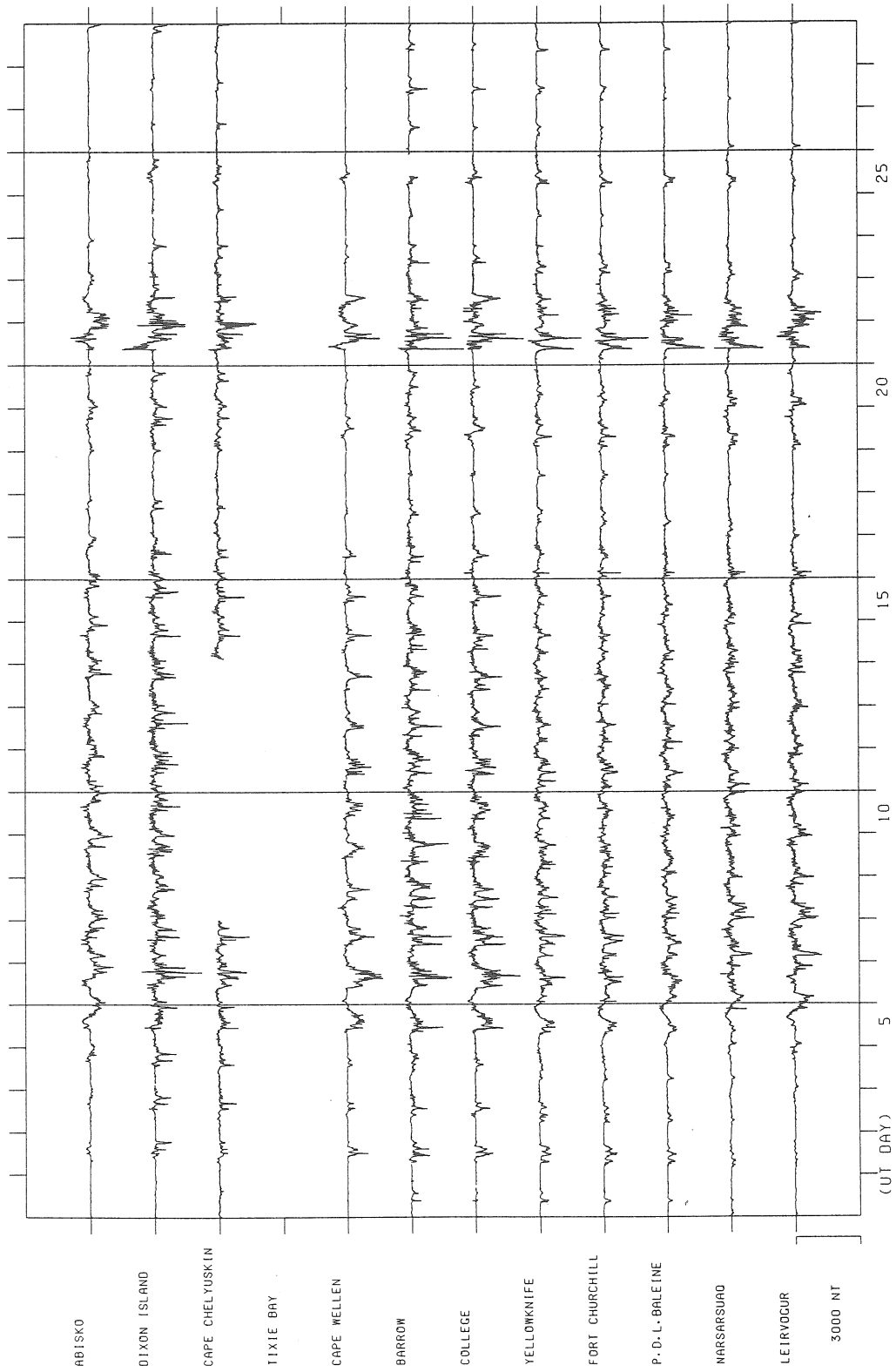


FIGURE 4

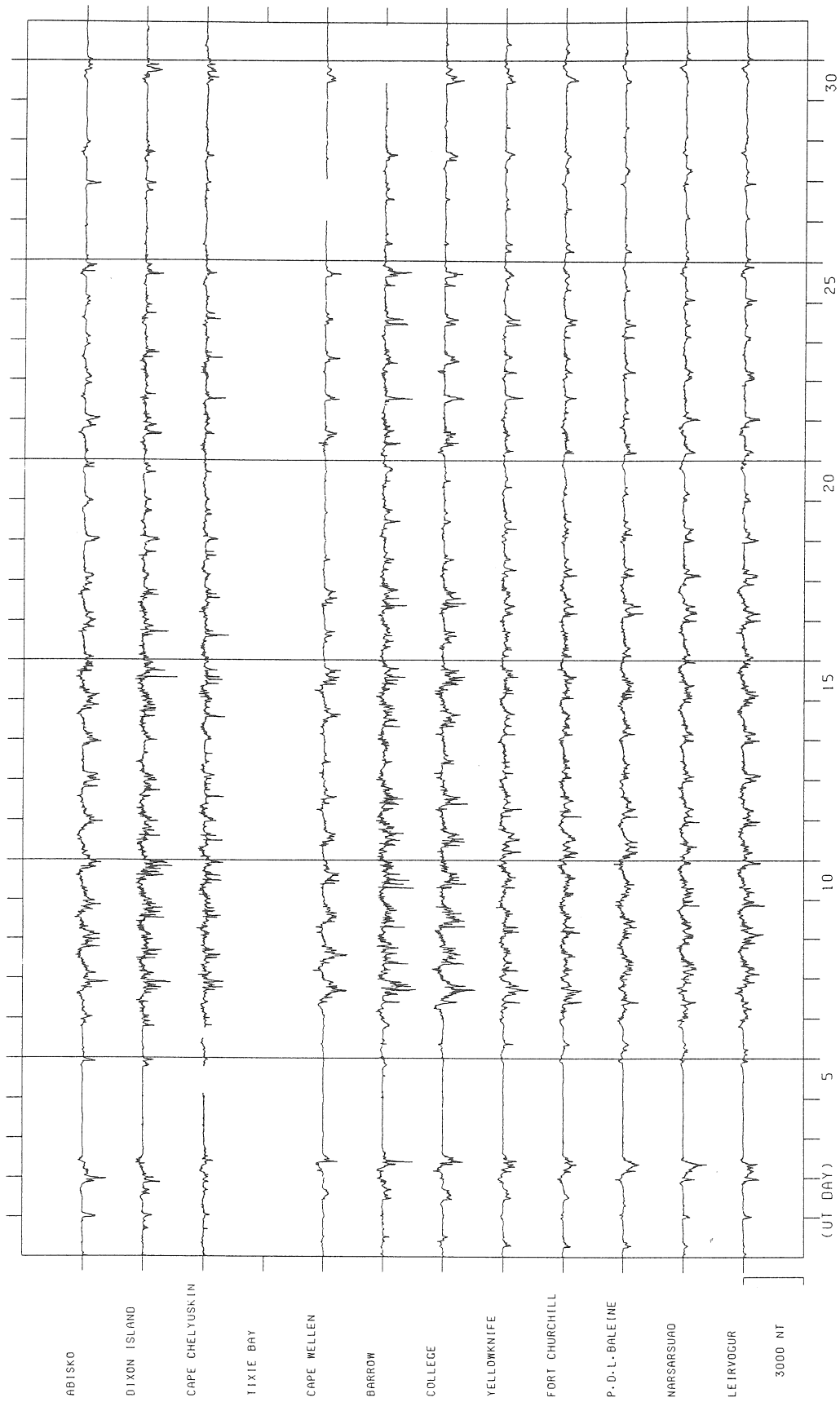
The H traces of magnetograms
from AE(11) stations
in each month
for January-December 1994.
(Provisional)



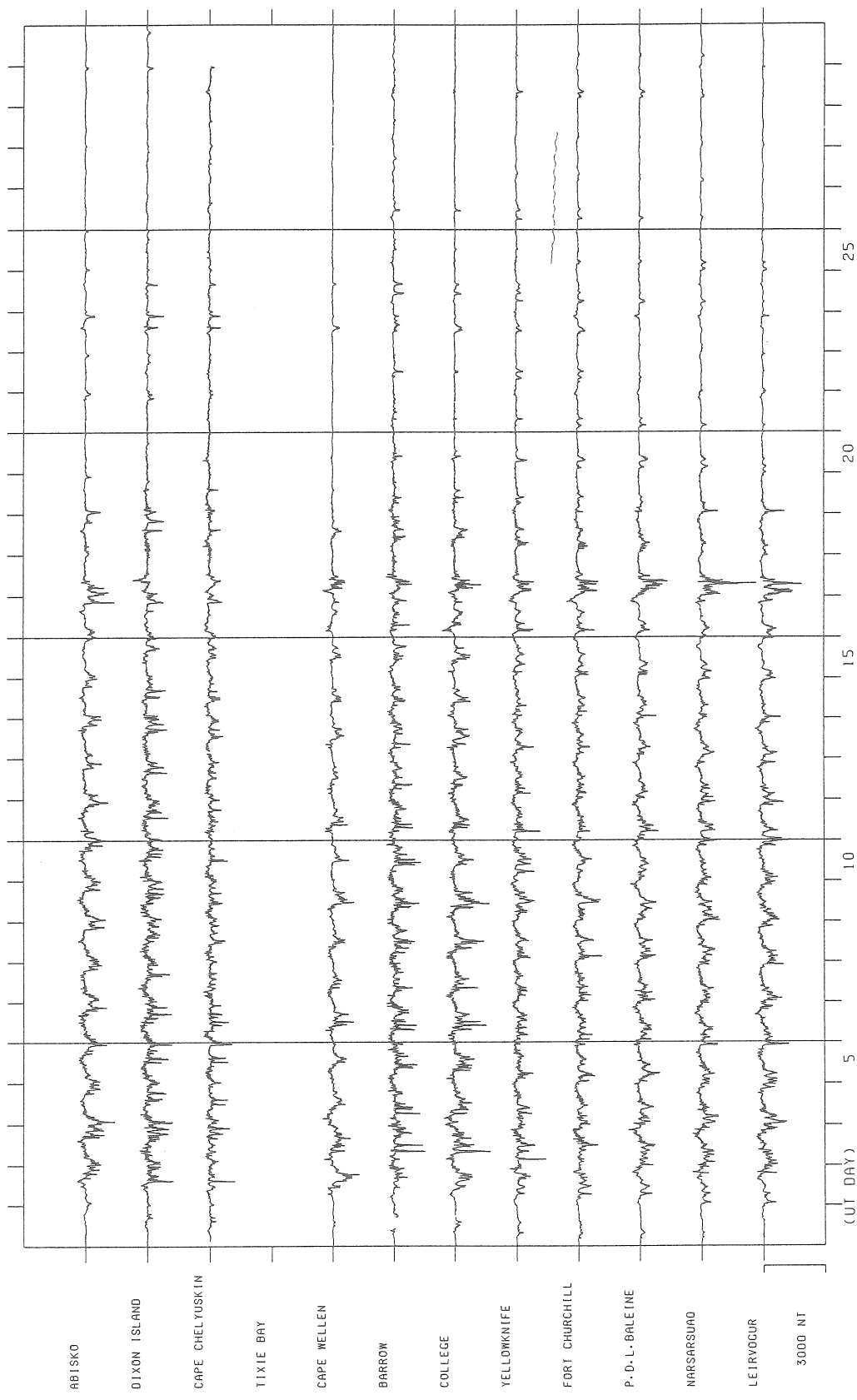
STACKED COMMON SCALE MAGNETOGRAMS FOR JANUARY 1994



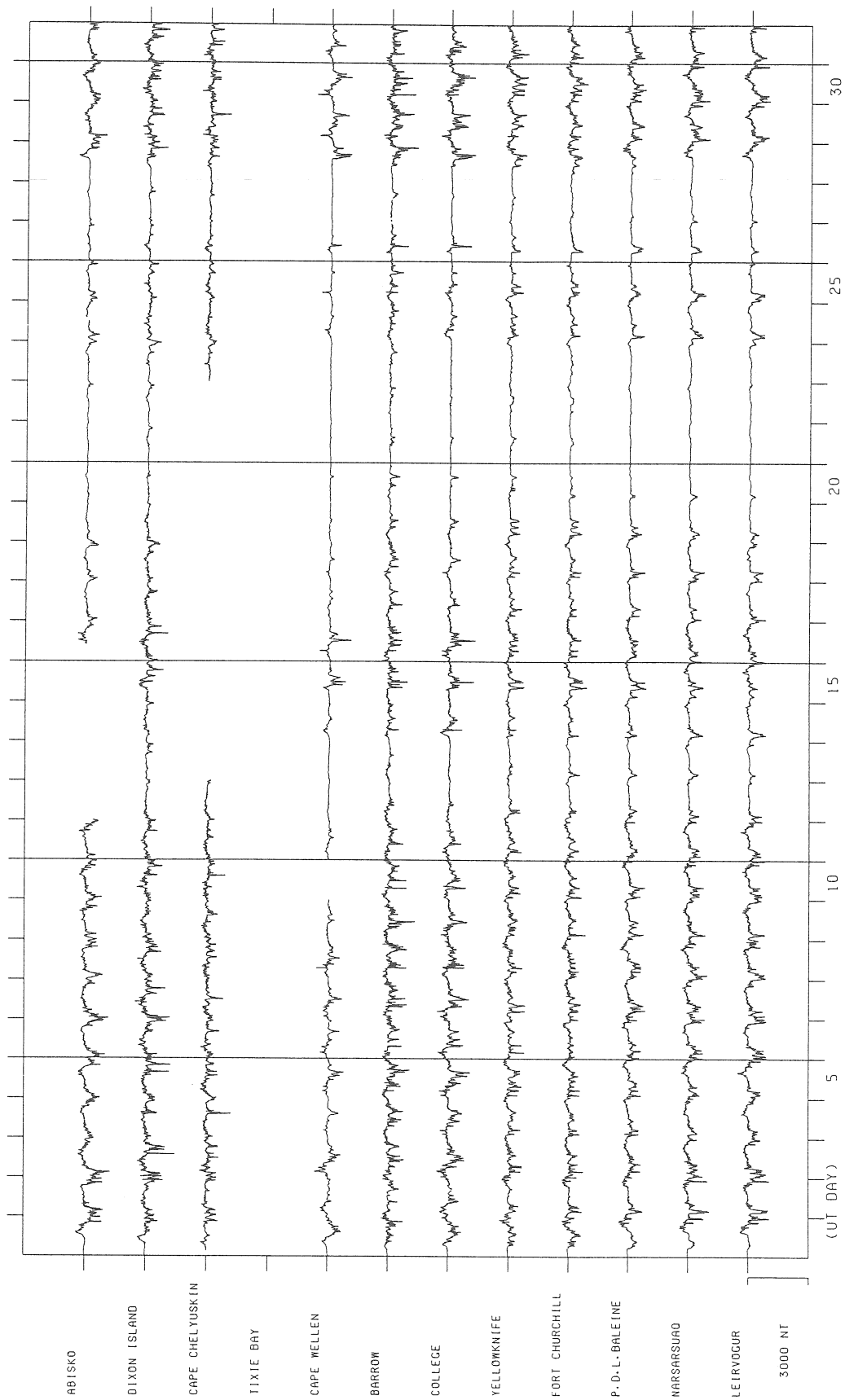
STACKED COMMON SCALE MAGNETOGRAMS FOR FEBRUARY 1994



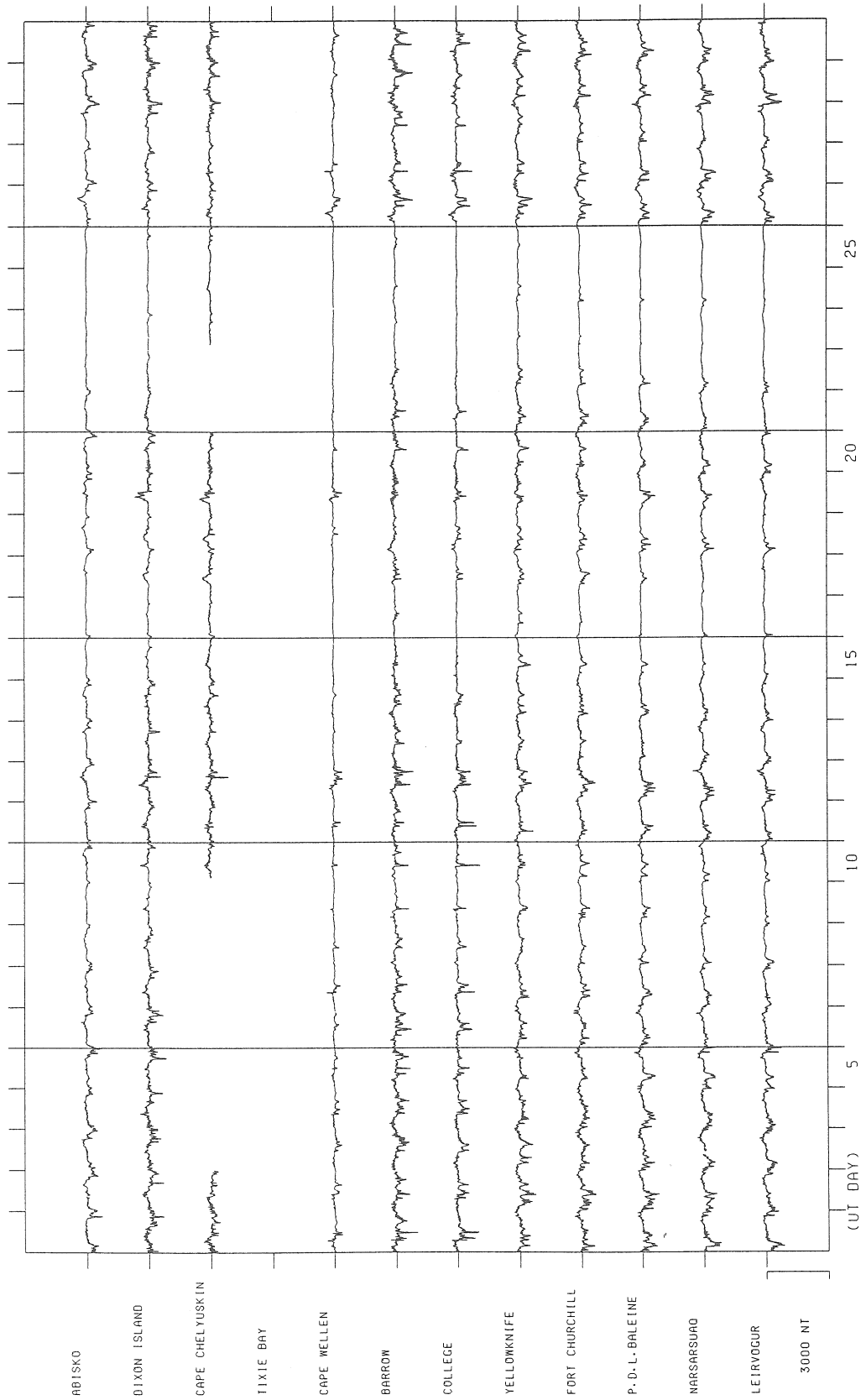
STACKED COMMON SCALE MAGNETOGRAMS FOR MARCH 1994



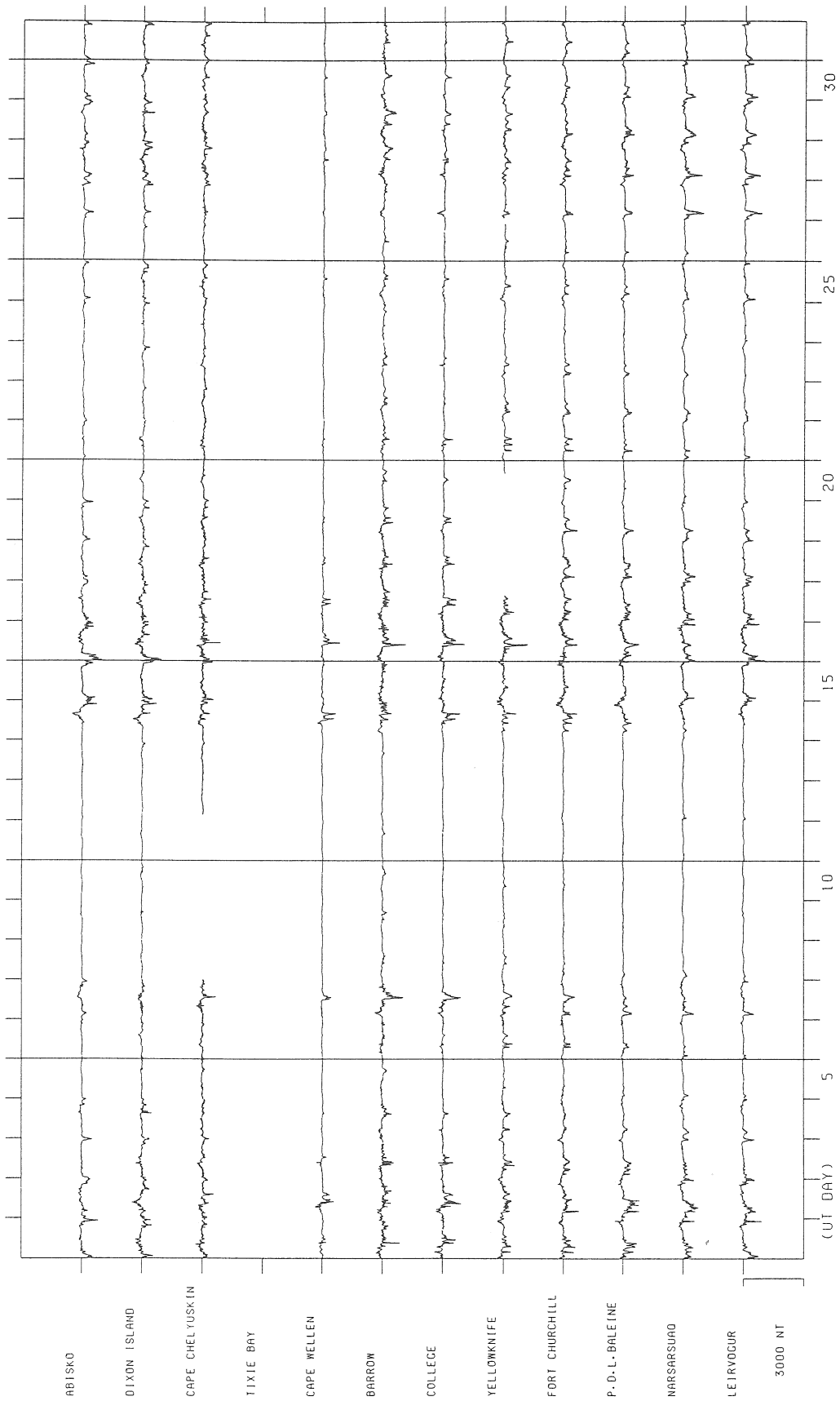
STACKED COMMON SCALE MAGNETOGRAMS FOR APRIL 1994



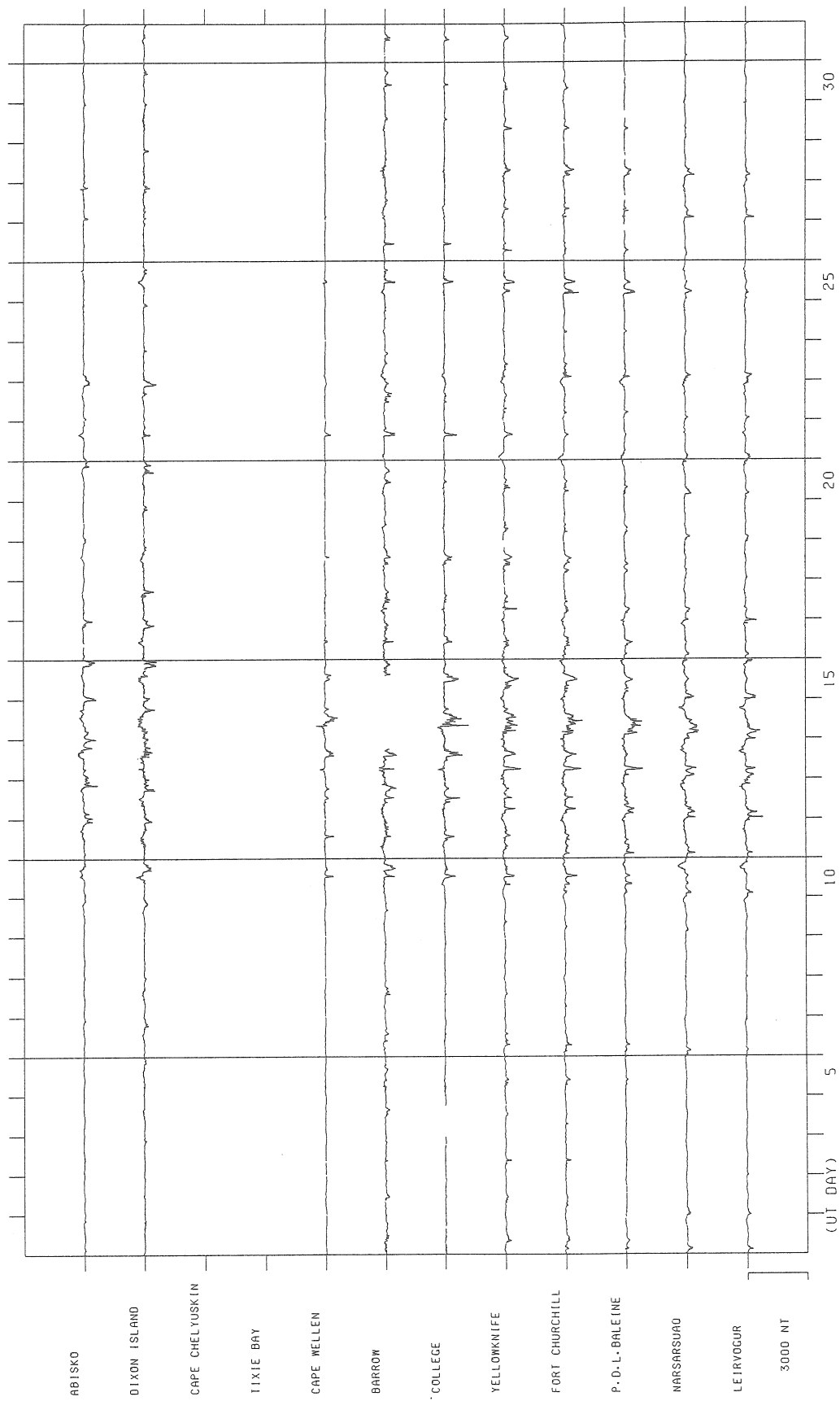
STACKED COMMON SCALE MAGNETOGRAMS FOR MAY 1994



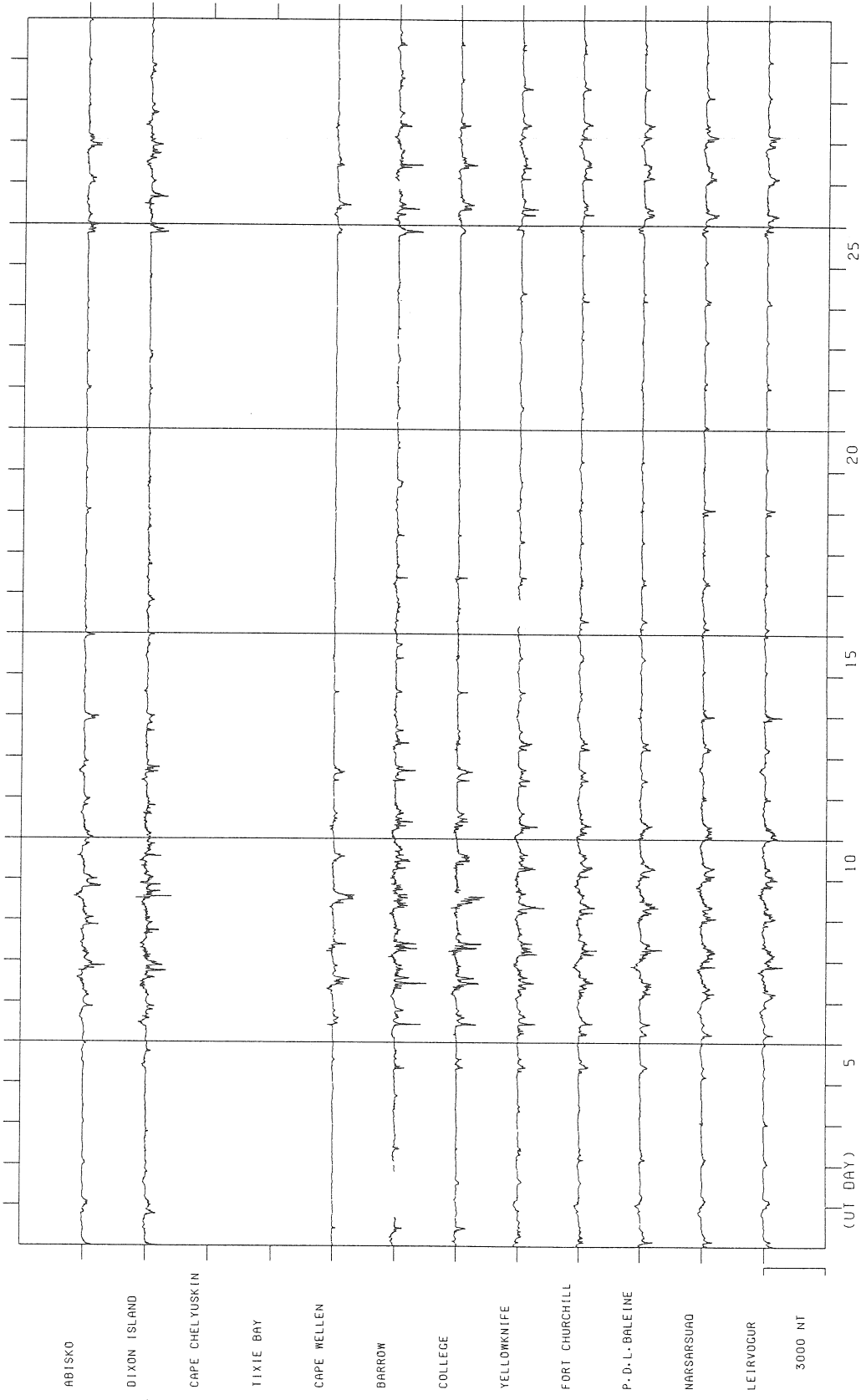
STACKED COMMON SCALE MAGNETOGRAMS FOR JUNE 1994



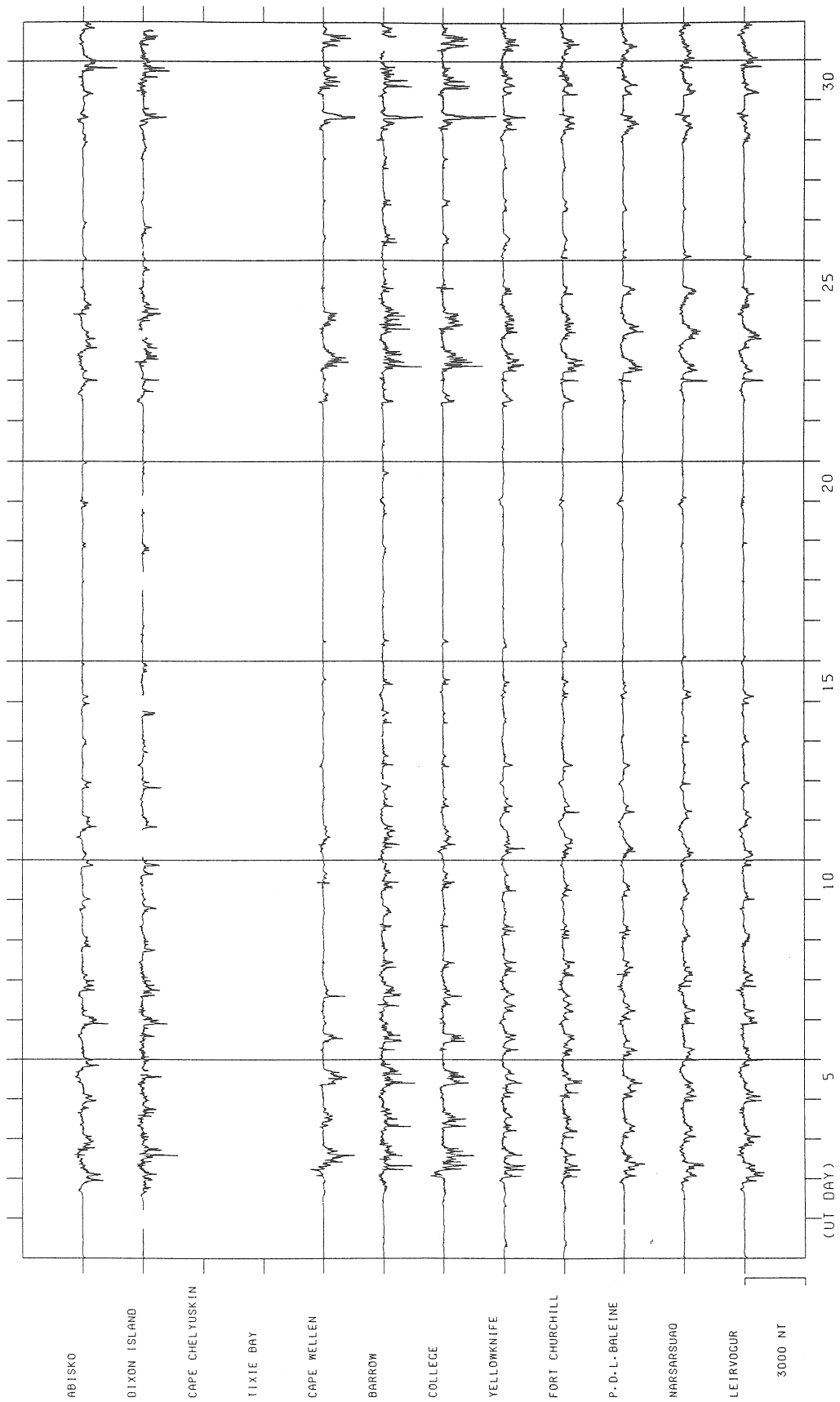
STACKED COMMON SCALE MAGNETOGRAMS FOR JULY 1994



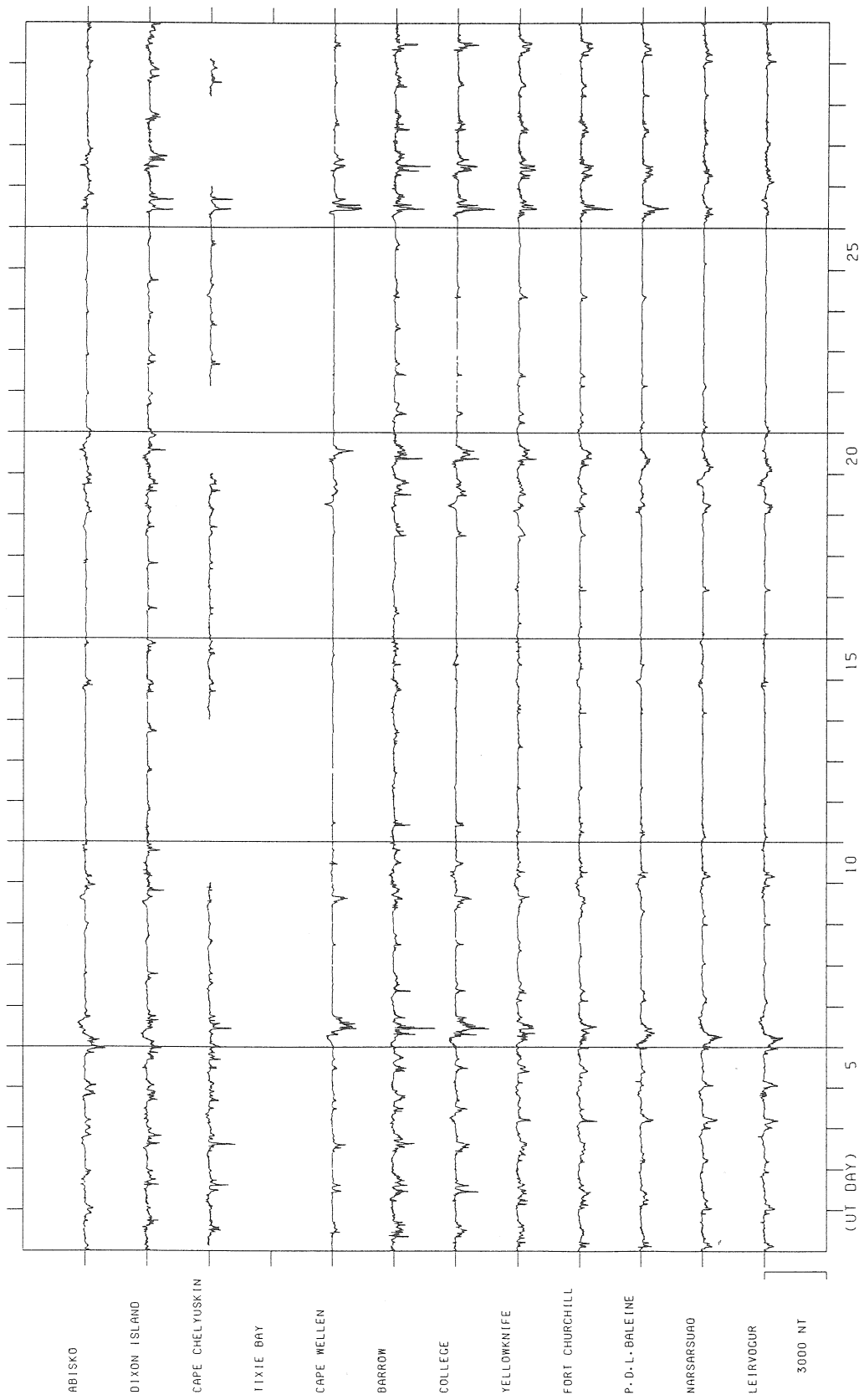
STACKED COMMON SCALE MAGNETOGRAMS FOR AUGUST 1994



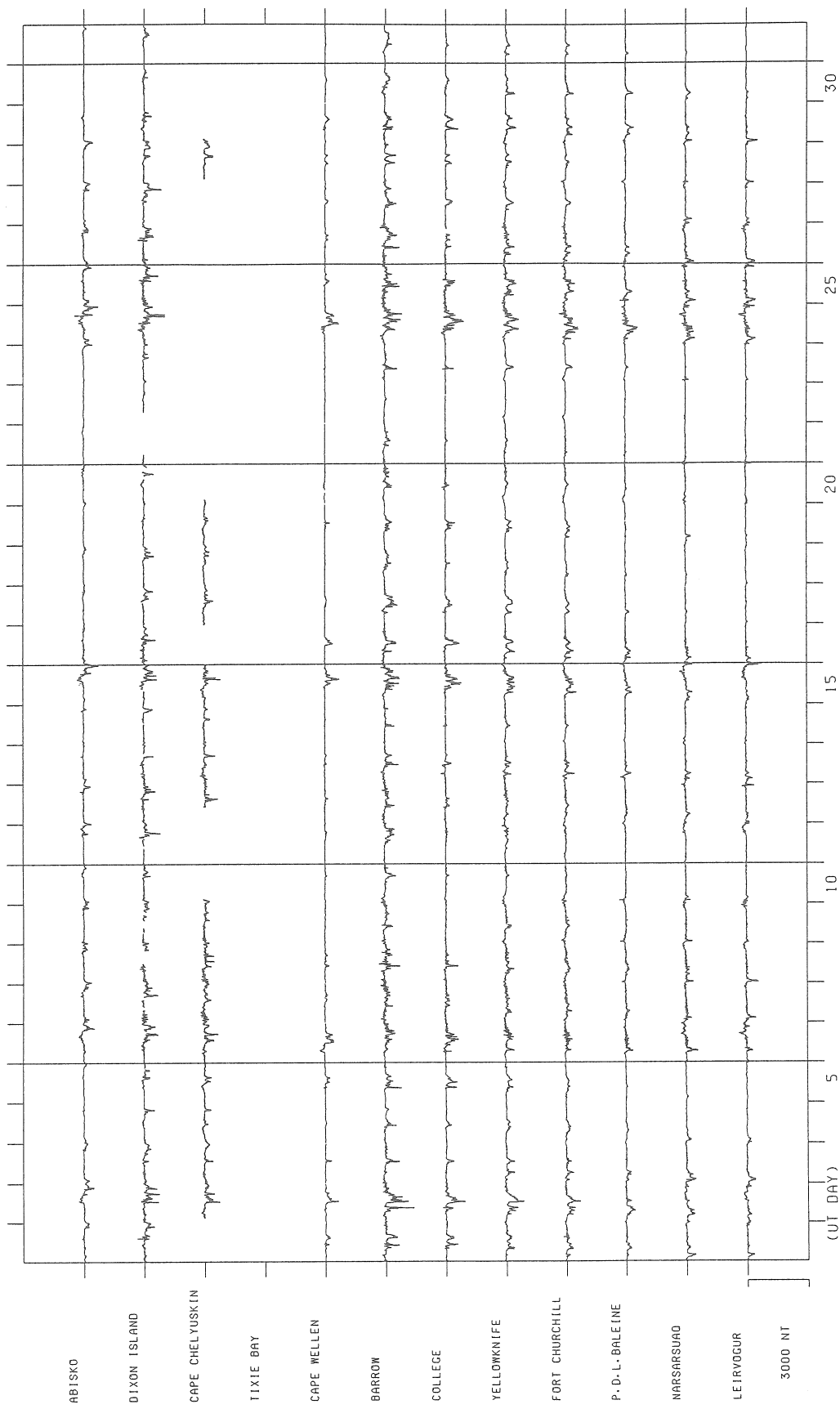
STACKED COMMON SCALE MAGNETOGRAMS FOR SEPTEMBER 1994



STACKED COMMON SCALE MAGNETOGRAMS FOR OCTOBER 1994



STACKED COMMON SCALE MAGNETOGRAMS FOR NOVEMBER 1994



STACKED COMMON SCALE MAGNETOGRAMS FOR DECEMBER 1994

FIGURE 5

A summary plot of provisional hourly values of
AU and AL indices
for January-December 1994.

Provisional Hourly Values of AU and AL for 1994

