

**MID-LATITUDE GEOMAGNETIC INDICES  
ASY and SYM**

**(PROVISIONAL)**

**No.8**

**1997**

**OCTOBER 1998  
DATA ANALYSIS CENTER FOR GEOMAGNETISM  
AND SPACE MAGNETISM  
FACULTY OF SCIENCE  
KYOTO UNIVERSITY**



**MID-LATITUDE GEOMAGNETIC INDICES  
ASY and SYM**

**(PROVISIONAL)**

**No.8**

**1997**

**OCTOBER 1998  
DATA ANALYSIS CENTER FOR GEOMAGNETISM  
AND SPACE MAGNETISM  
FACULTY OF SCIENCE  
KYOTO UNIVERSITY**



# Mid-latitude Geomagnetic Indices "ASY" and "SYM" for 1997 (Provisional)

## 1. Introduction

To describe the geomagnetic disturbance fields in mid-latitudes with high-time (i.e. 1 minute) resolution, a longitudinally asymmetric (ASY) and a symmetric (SYM) disturbance index are introduced and derived for both H and D components, that is, for the components in the horizontal (dipole pole) direction H (SYM-H, ASY-H) and in the orthogonal (East-West) direction D (SYM-D, ASY-D). The symmetric disturbance field in H, SYM-H, is essentially the same as Sugiura's hourly Dst index (Sugiura and Poros, 1971), although we use 1 minute values from different sets of stations and a slightly different coordinate system. Similarly, the ASY-H asymmetric disturbance component in H is close to the asymmetric indices proposed by Kawasaki and Akasofu (1971), Crooker and Siscoe (1971), or Clauer et al.(1983). The ASY-D used in this data book was introduced and discussed in Iyemori (1990, 1996). It has been shown that the variation of the asymmetric H component correlates well with the AE index (e.g. Crooker, 1972; Clauer and McPherron, 1980). The results of an examination of the correlation between the ASY-D and the AE indices or the IMF-Bz and a discussion of the meaning of these indices will be published in somewhere else. Although there exists rather a good correlation between both ASYs and the AE indices, it should be noted that there are some essential differences between them and we should be careful when we use the ASY indices as a monitor of disturbances in the polar region.

## 2. Method of derivation

Shown in Table 1 and Figure 1 are a listing of geomagnetic observatories used here and their distribution in the geomagnetic dipole coordinate system respectively. It should be noted that some of the stations used here (i.e. Fredericksburg, Boulder, Tucson, Memambetsu, Martin de Vivies and Chambon- la-Foret) are at higher latitudes than those used in the derivation of Sugiura's standard Dst index (i.e. Honolulu, Kakioka, Hermanus and San Juan). Only six of the stations are used for the derivation of each month, some stations being replaced by others depending on the availability and the condition of the data of the month. The combination of stations used is shown on the frame of each plot. The data are processed in units of one month. Therefore some gap in the magnitude is seen between successive months. The derivation procedure essentially consists of the following four steps:

- (1) Subtraction of the geomagnetic main field and the Sq (solar quiet daily variation) field to calculate the disturbance field component.
- (2) Coordinate transformation to a dipole coordinate system.
- (3) Calculation of the longitudinally symmetric component (i.e. six station average) and the asymmetric component (i.e. disturbance field minus the symmetric component).
- (4) Derivation of the asymmetric indices (i.e. the range between the maximum and the minimum asymmetric fields).

A detailed description of the derivation and the characteristics of the indices will appear elsewhere. The following is a rough explanation of each step of the derivation.

TABLE 1.

STATION NAME	ABB CODE	G.G. LAT.	G.G. LONG.	G.M. LAT.	G.M. LONG.	INVARIANT LAT.	ROTATION ANGLE
San Juan	SJG	18.4	293.9	29.1	5.2	32.5	-8.9
Fredericksburg	FRD	38.2	282.6	49.1	352.2	50.4	0.4
Boulder	BOU	40.1	254.8	48.7	319.0	49.1	2.5
Tucson	TUC	32.3	249.2	40.4	314.6	39.7	2.7
Honolulu	HON	21.3	202.0	21.5	268.6	20.2	0.5
Memambetsu	MMB	43.9	144.2	34.6	210.2	34.9	-16.1
Martin de Vivies	AMS	-37.8	77.6	-46.9	142.8	48.6	-32.4
Hermanus	HER	-34.4	19.2	-33.7	82.7	43.6	-10.1
Chambon-la-Foret	CLF	48.0	2.3	50.1	85.7	45.7	13.6

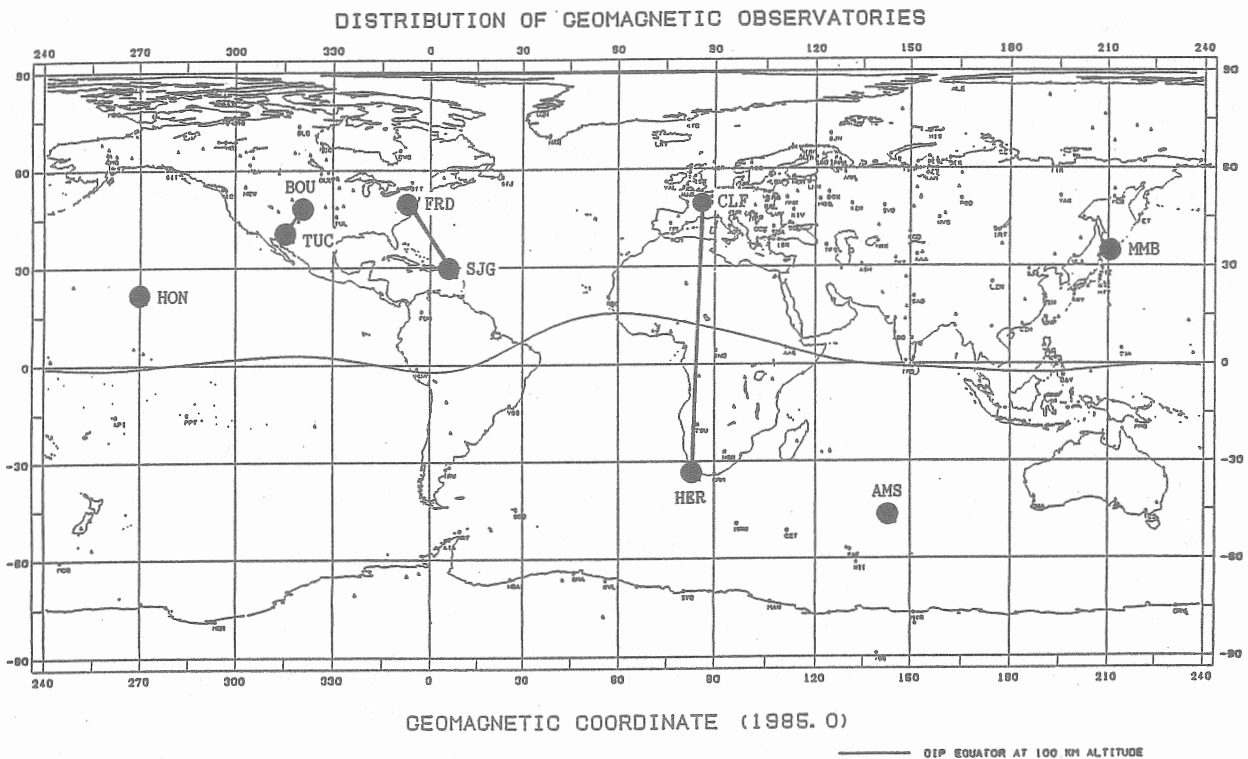


Figure 1. Data are obtained at the observatories shown by the solid circles. The stations replaced with each other are connected by solid lines.

Note: In this issues, the data observed at HON(July-October, December), TUC, BOU and FRD stations were taken from RGON database which contains the provisional data without base-line control.

(1) Subtraction of the main field and the Sq field

The geomagnetic field consists of the main field, the solar quiet daily variation and the disturbance field. To get the disturbance field, the geomagnetic main field and the Sq field have to be subtracted. To calculate the base value including the Sq field, the data of international five quiet days are used. That is, the original data of the international 5-Q days of the month that include the Sq field as well as the geomagnetic main field are averaged every minute and fitted by B-spline functions. For some special cases where some of the 5-Q days are not suitable for the purpose because of missing data etc., another quiet day is selected from international 10 quiet days of the month. The period used for the quiet days is marked by the symbol 'Q' in the hourly value tables. The fitted values are then subtracted from original data to get the disturbance component.

(2) Coordinate transformation

In a geomagnetic storm period, the ring current is the main source of the disturbance field in the H component observed at mid-latitudes. As the ring current flows in the magnetosphere at a distance of several  $R_e$  (radius of the Earth) and in the equatorial plane, its geomagnetic effect should be nearly parallel to the dipole axis. On the other hand, the H direction at each observatory is generally different from the dipole pole direction because of the non-dipole component or local geomagnetic anomalies. Therefore the ring current effect is mixed into the D component. To minimize the ring current effect in the D-component, the data are transformed to the dipole coordinate system at each station. The differences between the dipole pole position and local geomagnetic direction are shown in Table 1.

(3) Calculation of the symmetric components SYM-H and SYM-D

The longitudinally symmetric component is calculated by averaging the disturbance component at each minute for the 6 stations. For the H component, a latitudinal correction is made on the averaged value to get the value (SYM-H) which corresponds to Sugiura's equatorial Dst index, that is, it is divided by the 6-station average of  $\cos\theta_m$ , where  $\theta_m$  is the dipole latitude of each station, though the stations used, the coordinate system and the method to subtract the base value with Sq current effect are different from his method of derivation. On the symmetric component of D (SYM-D), we make no latitudinal correction at all.

(4) Calculation of the asymmetric disturbance indices, ASY-H and ASY-D

The asymmetric component at each station is obtained by subtracting the symmetric component from each disturbance field. For the H component, the symmetric part is subtracted after making a latitudinal correction assuming that the SYM-H represents the magnitude of the uniform field parallel to the dipole axis generated by the ring current. After subtracting the symmetric part, a latitudinal correction is made by multiplying the normalization coefficient for each station which is determined empirically as the standard deviations of the asymmetric variation for the 6 stations become equal.

The ASY-H and the ASY-D indices are defined as the range between the maximum and the minimum deviation at each moment for the H and the D component, respectively.

### 3. Explanation of the plots and hourly tables

Each frame of the plots in this data book covers a period of two days. The upper panel shows, from top to bottom, ASY-D, ASY-H (positive downward), SYM-D (thin line) and SYM-H (thick line). The lower panel shows the magnetic local time where the maximum (+) and minimum (-) asymmetric deviations are observed. For periods when one or more stations have no data, a dark bar with height proportional to the number of stations with missing data, is drawn at the bottom of the panel. A storm sudden commencement (SSC) and the start time of a solar flare effect (SFE) are indicated by solid and open triangles, respectively. The SSCs and SFEs are taken from the Solar Geophysical Data published by NOAA/NGDC. Cases where the highest quality of the SSC reported is 'C' or only one station reports an SFE are not indicated here. Therefore there may be many SSCs and SFEs not indicated by the symbols on these plots.

The hourly averaged value of the ASY-D and ASY-H indices are tabulated every month. The hourly SYM-H index is not tabulated to avoid confusion with the hourly Dst index. Instead of the tables of the SYM-H index, a comparison (i.e. the correlation plots) between the hourly SYM-H and the provisional Dst index is shown in Figures 3 (a)-(b). The hourly SYM-D index is also not tabulated because the stations are insufficiently well distributed to properly treat the symmetric disturbance of the D component. The quiet days used for the calculation of the base line are marked by a symbol 'Q'. Most of the days correspond to the international 5-quiet days.

### 4. Comparison with the AE indices and the Dst index

Figures 2-a and 2-b are examples of a comparison between the ASY and SYM indices and the auroral electrojet indices, AE. Figure 2-a shows a rather disturbed period and Figure 2-b shows a moderately disturbed period. From these plots, the qualitative similarities and the differences between the ASY and AE indices can be seen. The main qualitative differences are seen in the spectral characteristics and in the sensitivity to minor substorm activity. The ASY indices are more smoothly varying and it is rather difficult for them to reflect minor substorm activity in the polar region. A quantitative comparison will appear elsewhere. Users should be aware that the ASY indices should not be used as substitutes for the AE indices, although there are some similarities between them.

A comparison of the hourly SYM-H index with the provisional Dst index is shown in Figures 3 (a)-(b). We see some offset between the two indices which come from the difference in the method to determine the base values. The base value at each station is more carefully determined for the hourly Dst index taking into account the geomagnetic secular variation than for this provisional SYM-H index. The main difference between the 1 minute SYM-H and the hourly Dst index is the time resolution, and the effects of the solar wind dynamic pressure variation are more clearly seen in the SYM-H than in the hourly Dst index.

### 5. Future improvements

The indices plotted in this data book are provisional in the sense that the combination of the stations could be changed in future to get more stable results with minimum universal time and



seasonal dependence. It is necessary to continue the provisional derivation of the indices for some more years until the optimal method and the best combination of stations are established. The availability of the digital data could be changed and it will also be necessary to try to get the digital geomagnetic data from more suitable locations. Modification of the procedure for real-time derivation may also be necessary in future.

#### 6. Post-Script files of the plots and WWW homepage service

The Post-Script files of the plots shown in the latest issue are available from anonymous FTP directory at our data center. The IP address and the directory are as follows:

IP address: 130.54.59.253 (swdcdcb)

Directory: anonymous

Change directory is necessary after logging in as follows:

```
ftp> cd data
```

```
ftp> cd asyplot
```

Each file is compressed and has a name YYMMD1-D2.ps.Z (for example, 970221-22.ps.Z).

Files should be transferred in binary mode and uncompressed.

Plots with the AE indices for the period when the AE indices have been derived are also available from our home page:

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

#### *Acknowledgments*

The data used in this data book were kindly provided by the U.S. Geological Survey (HON, BOU, FRD, SJD, and TUC) through the World Data Center A for STP, the Hermanus Magnetic Observatory (HER), the Chambon-la-Foret Magnetic Observatory (CLF), Institut de Physique du Globe de Strasbourg (AMS), and the Kakioka Magnetic Observatory (MMB).

T. Iyemori, T. Araki, T. Kamei and M. Takeda

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

Kyoto University, Kyoto 606-01, Japan.

TEL: 81-75-753-3929

FAX: 81-75-722-7884

E-MAIL: iyemori@kugi.kyoto-u.ac.jp

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

(October 1998)

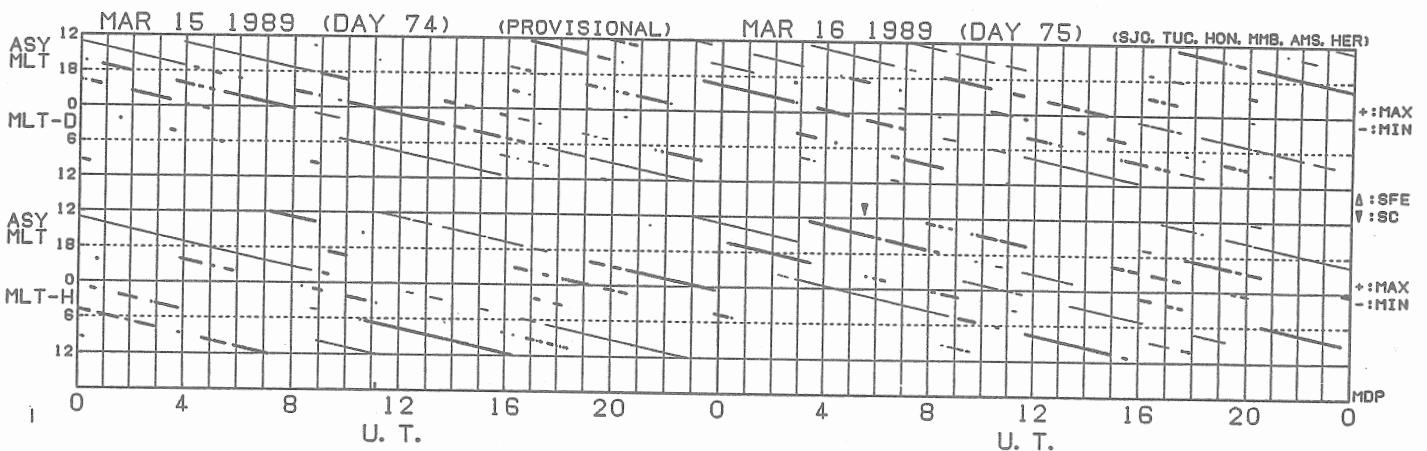
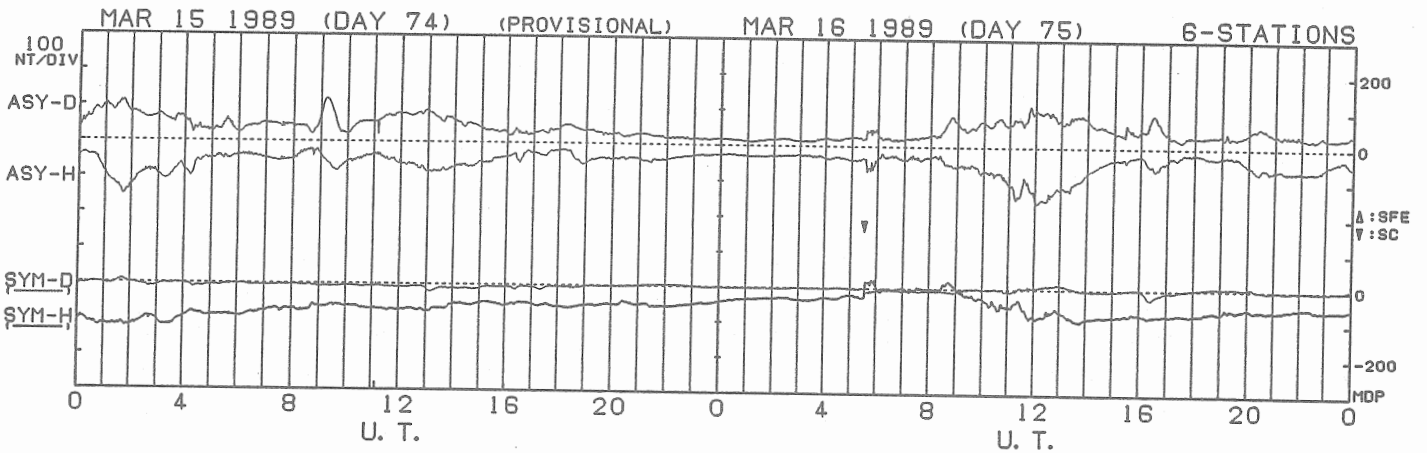
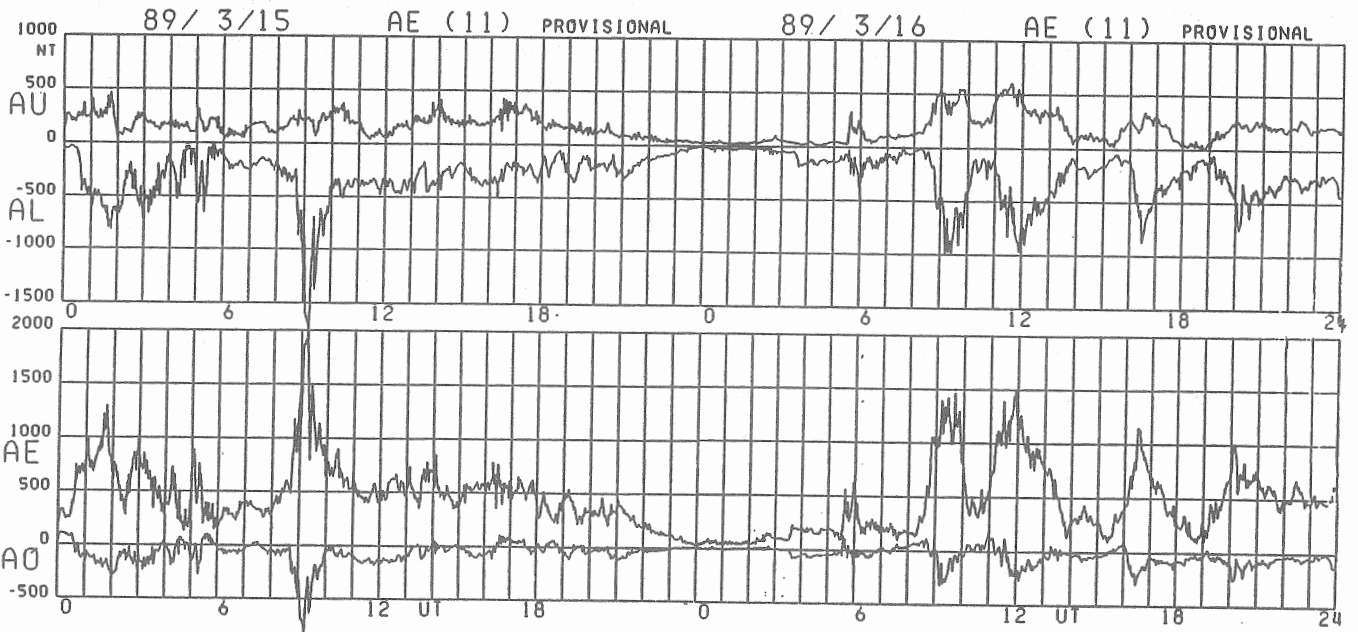


Figure 2a. An example of a comparison between the AE indices and the ASY and SYM indices of rather disturbed period. An SSC is indicated by a solid triangle. The magnetic local time at the station which gives the maximum or the minimum asymmetric deviation from symmetric disturbance is shown by a symbol + (thick line) or a symbol - (thin line), respectively.

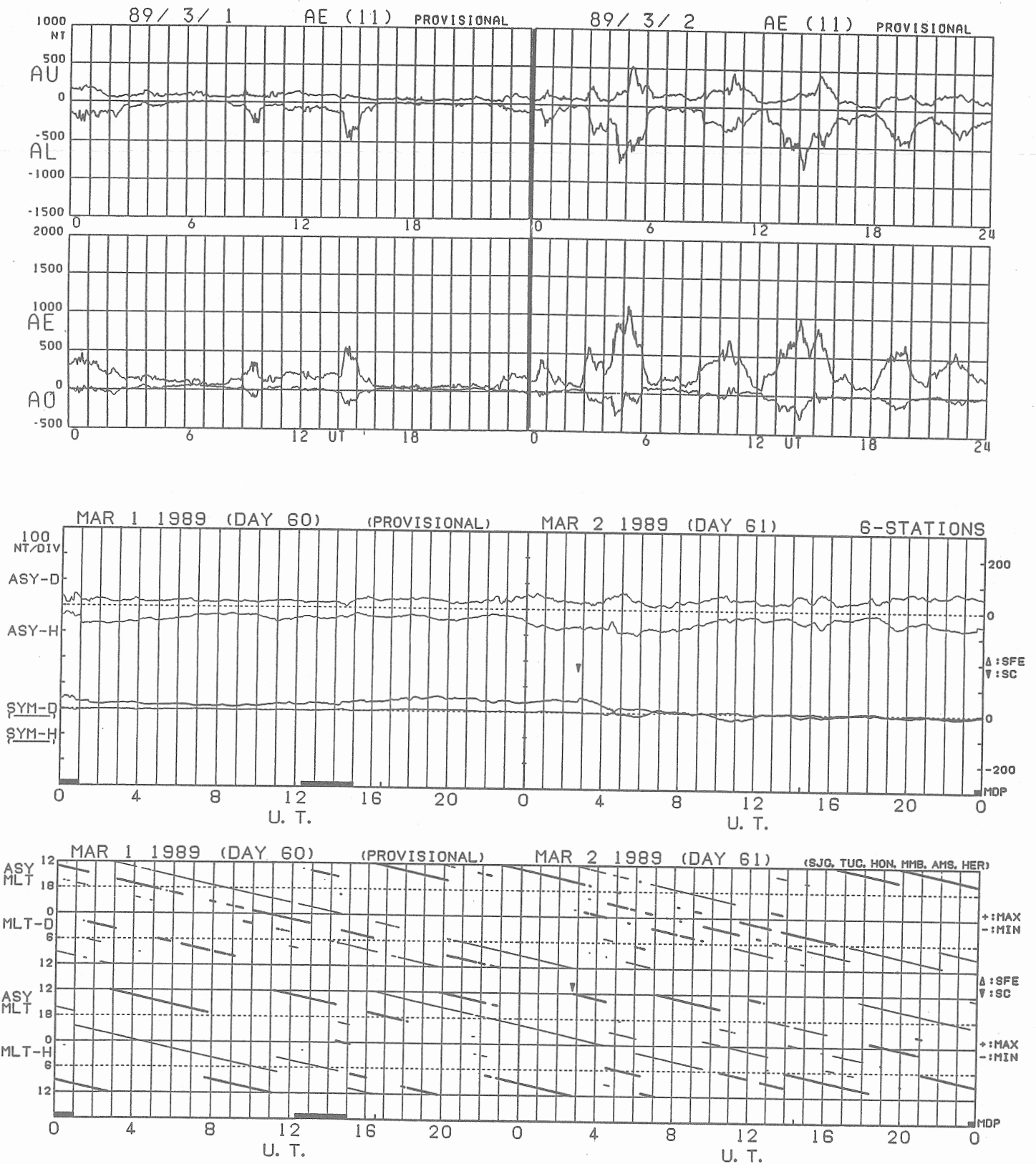


Figure 2b. An example of a comparison between the AE indices and the ASY and SYM indices of moderately disturbed period. The missing data periods are shown by the dark bars at the bottom of the panel. The height of the bars is proportional to the number of stations (1 station in this case) with missing data period (MDP).

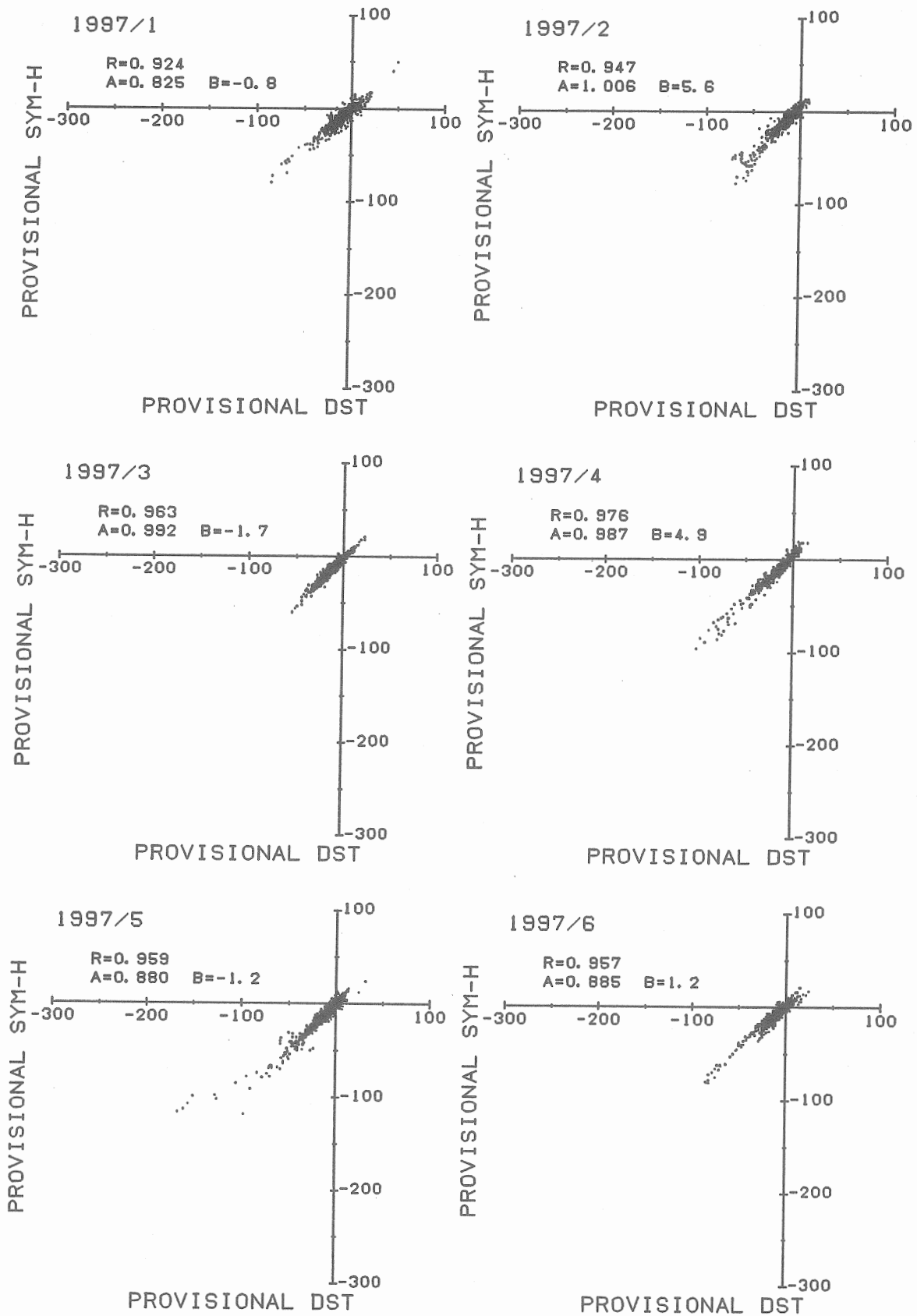


Figure 3a. Correlation plots between the hourly averaged SYM-H and the provisional Dst for January-June, 1997. The correlation coefficients R, the parameters of the regression line A and B (i.e.  $\text{SYM-H} = A \cdot \text{Dst} + B$ ) are shown on each panel.

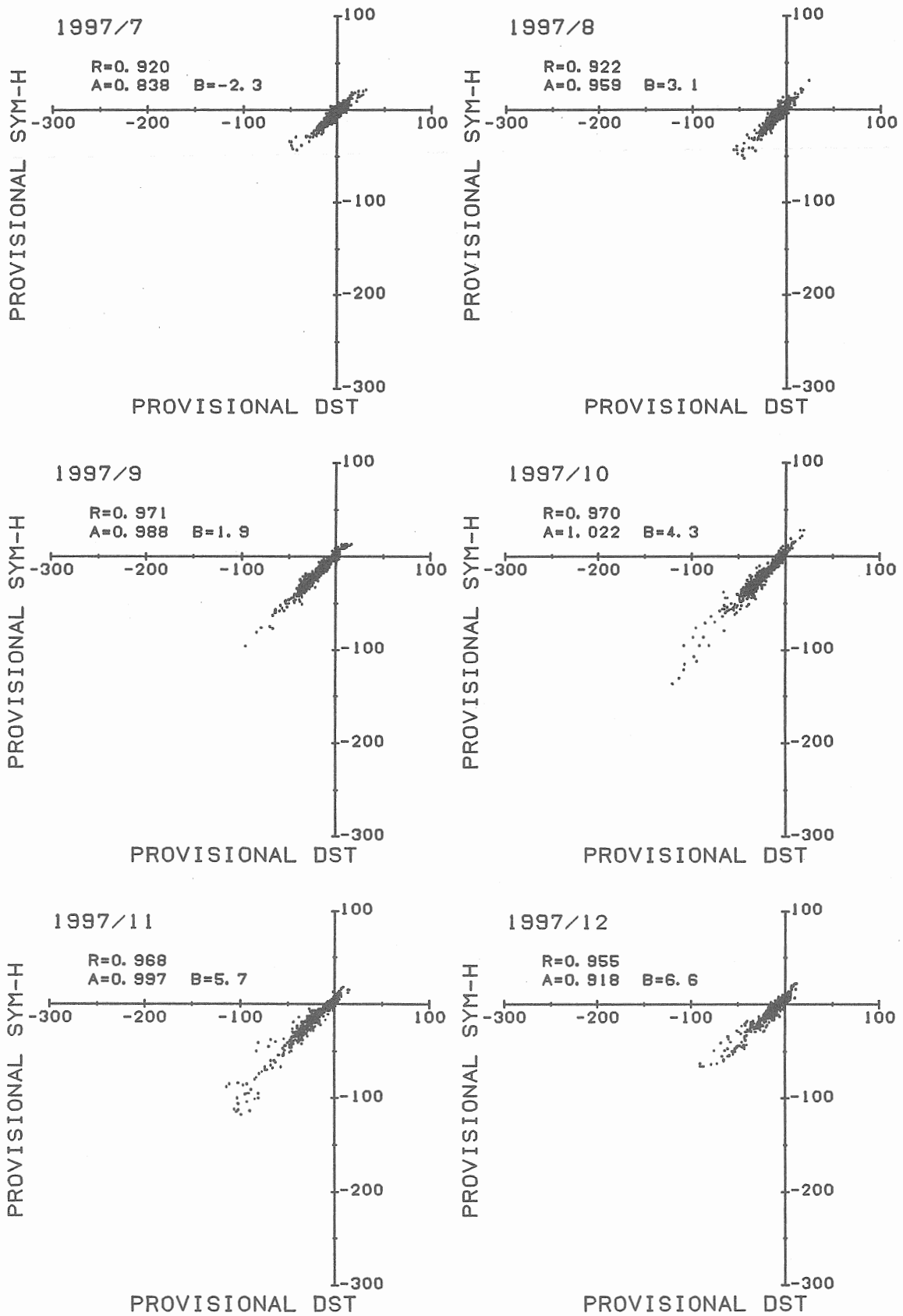


Figure 3b. Correlation plots for July-December, 1997.

## References

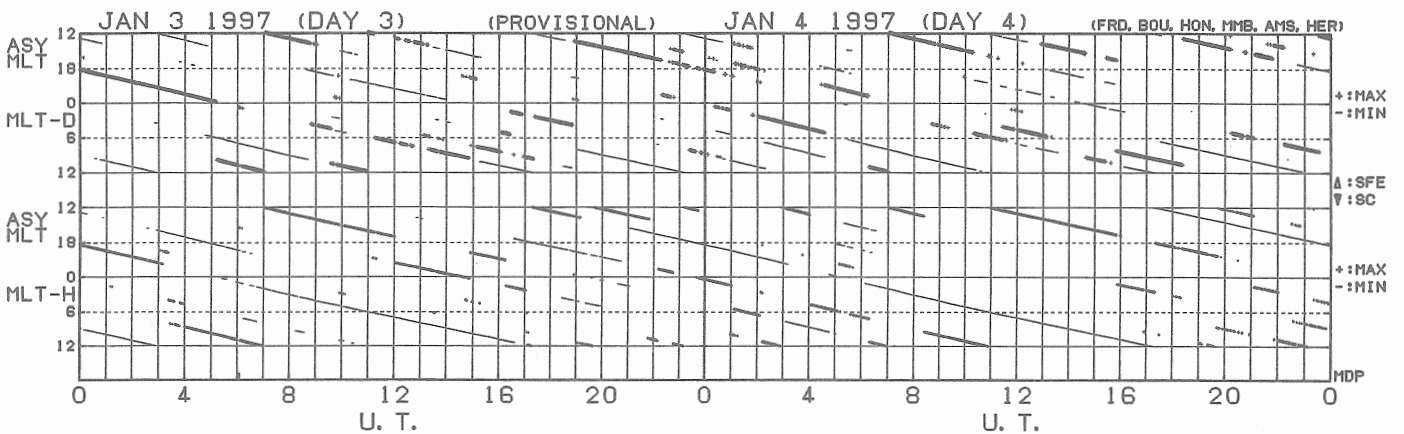
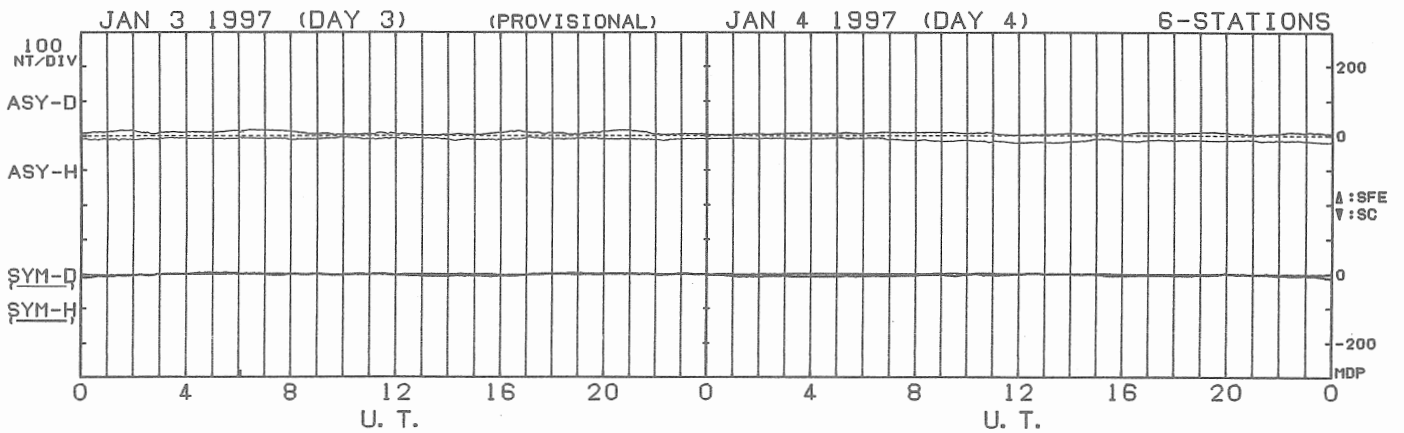
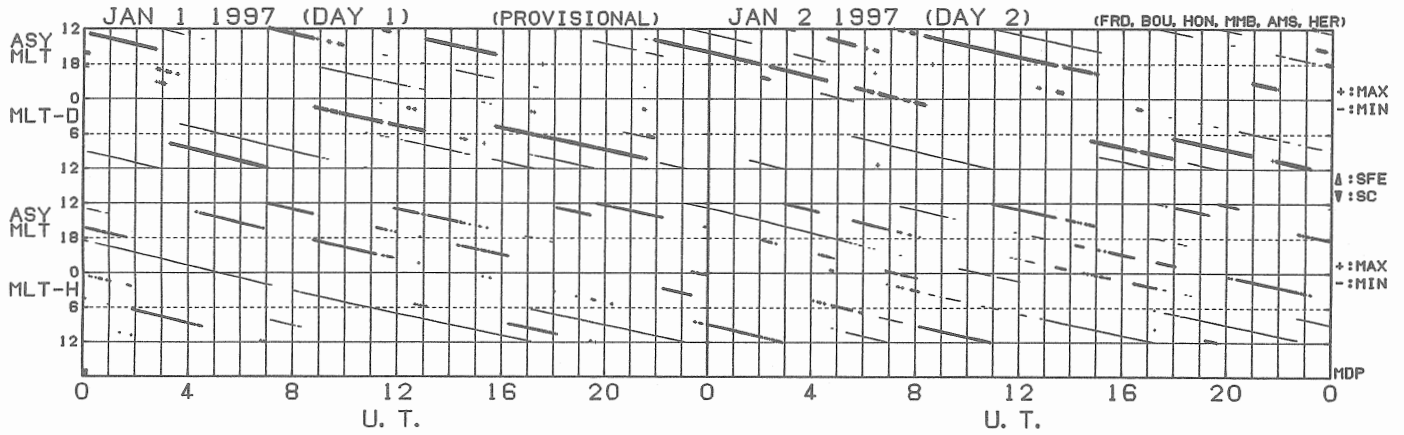
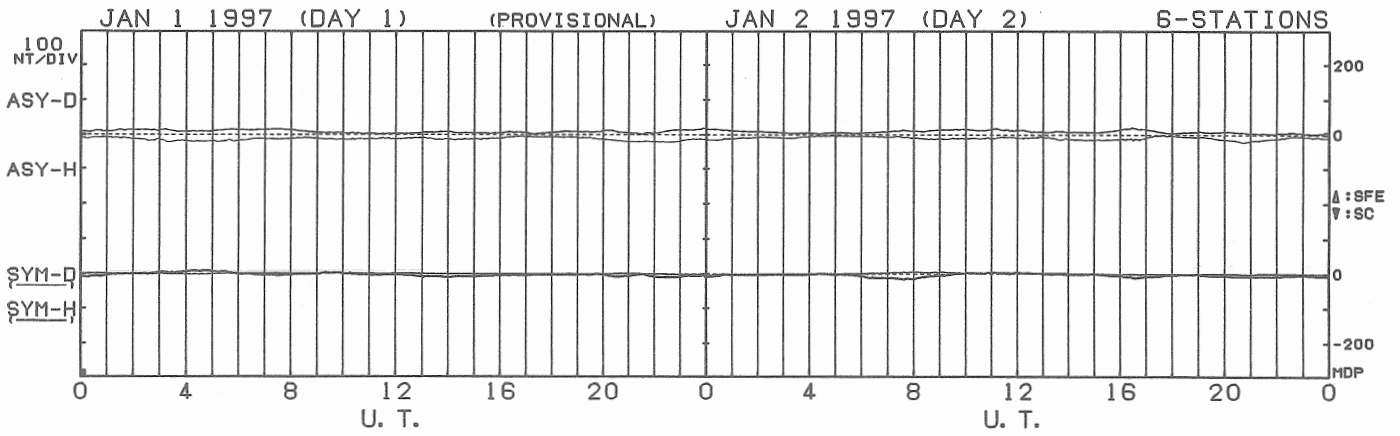
- Clauer, C.R. and R.L. McPherron, The relative importance of the interplanetary electric field and magnetospheric substorms on the partial ring current development, *J. Geophys. Res.*, 85, 6747-6759, 1980.
- Clauer, C.R., McPherron, R.L. and C. Searls, Solar wind control of the low- latitude asymmetric magnetic disturbance field, *J. Geophys. Res.*, 88, 2123-2130, 1983.
- Crooker, N.C. and G.L. Siscoe, A study of the geomagnetic disturbance field asymmetry, *Radio Sci.*, 6, 495-501, 1971.
- Crooker, N.C., High-time resolution of the low-latitude asymmetric disturbance in the geomagnetic field, 77, 773-775, 1972.
- Iyemori, T., Storm-time magnetospheric currents inferred from mid-latitude geomagnetic field variations, *J. Geomag. Geoelectr.*, 42, 1249-1265, 1990.
- Iyemori, T. and D.R.K. Rao, Decay of the Dst field of geomagnetic disturbance after substorm onset and its implication to storm-substorm relation, *Ann. Geophys.*, 14, 608-618, 1996.
- Kawasaki, K. and S.-I. Akasofu, Low-latitude DS component of geomagnetic storm field, *J. Geophys. Res.*, 76, 2396-2405, 1971.
- Sugiura, M. and D.J. Poros, Hourly values of equatorial Dst for years 1957 to 1970, Rep. X-645-71-278, Goddard Space Flight Center, Greenbelt, Maryland, 1971.

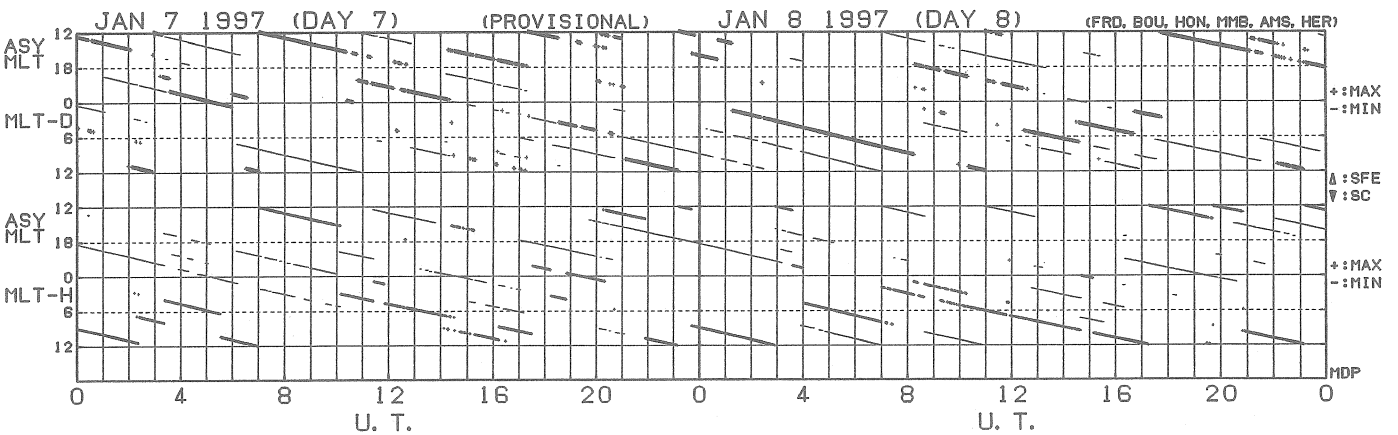
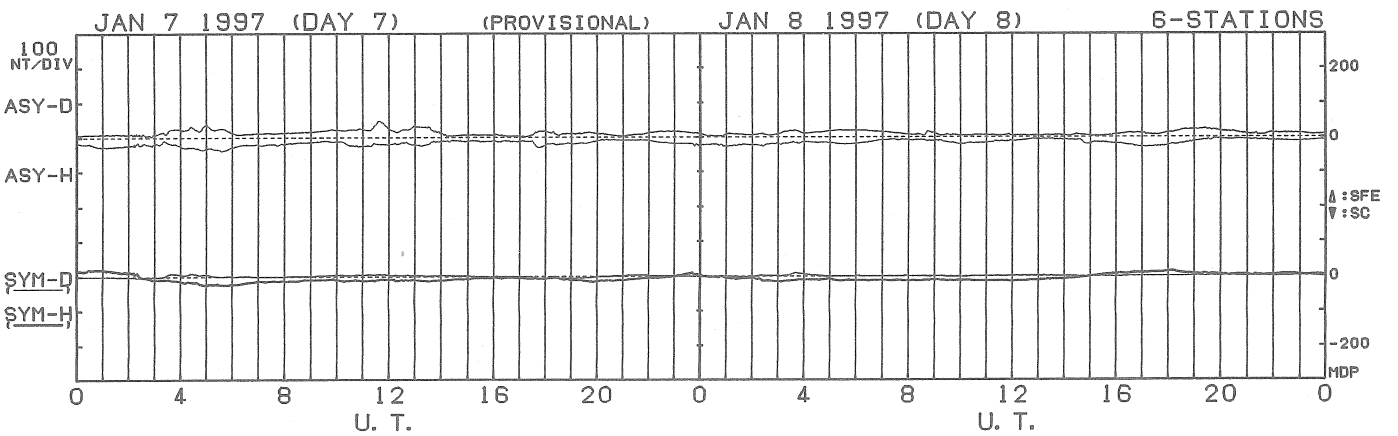
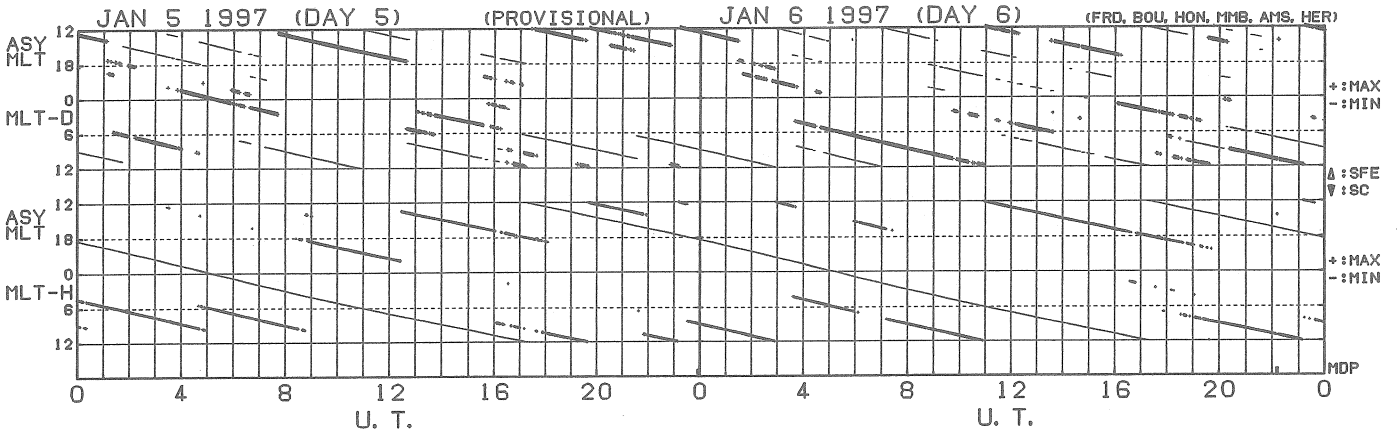
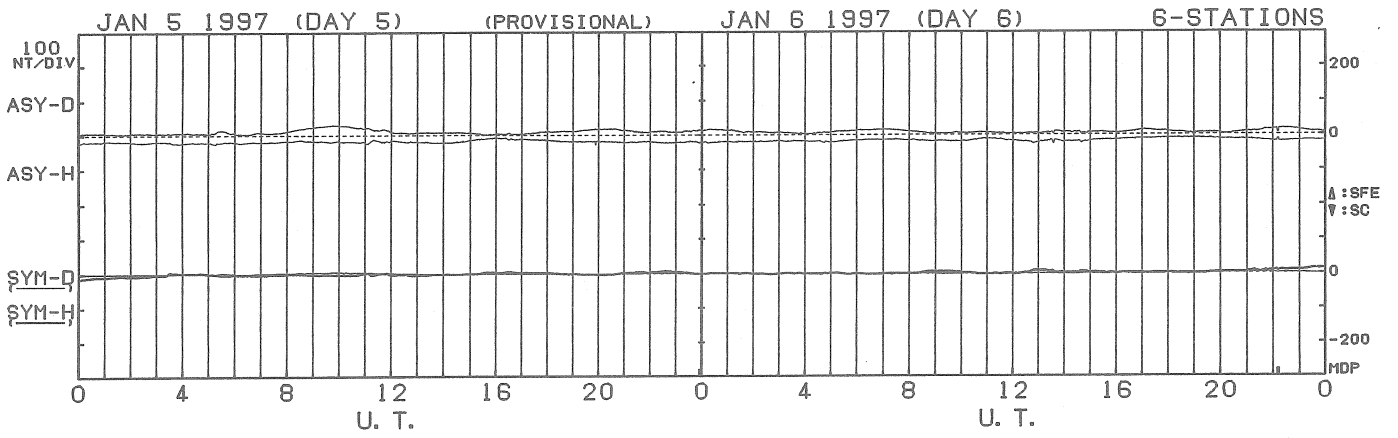
**ASY and SYM Indices**

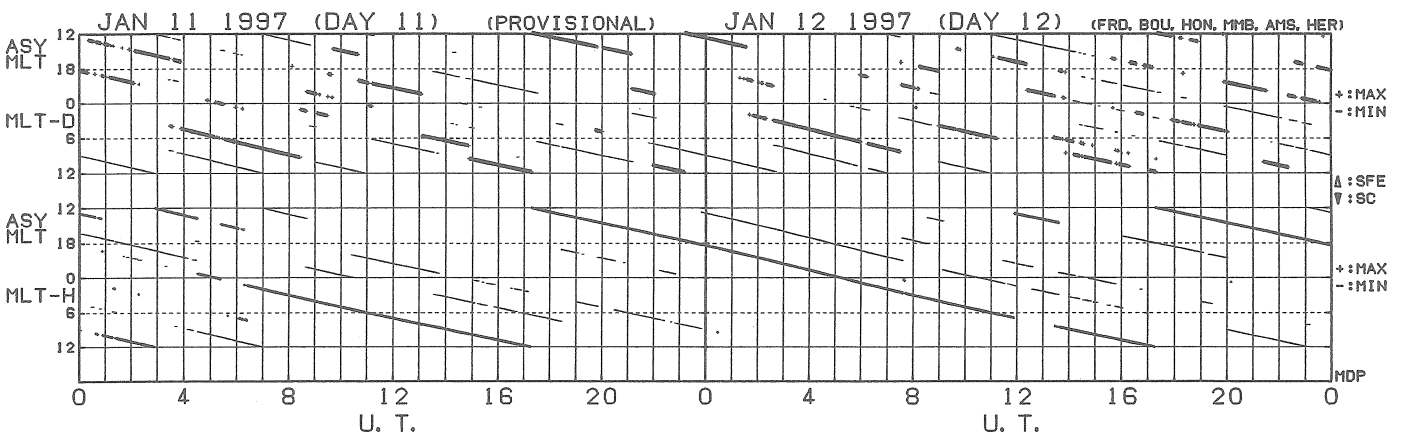
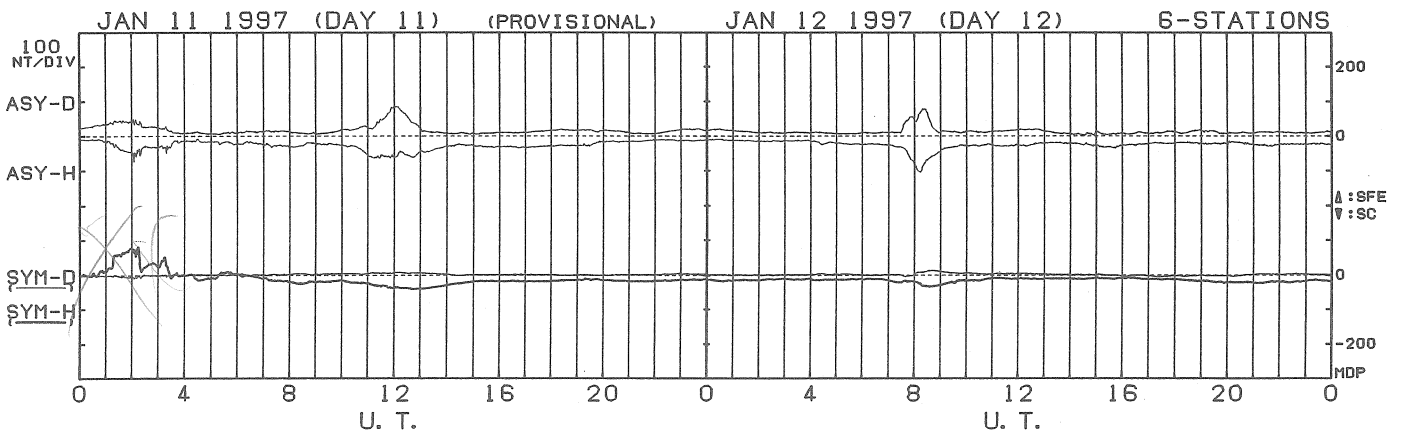
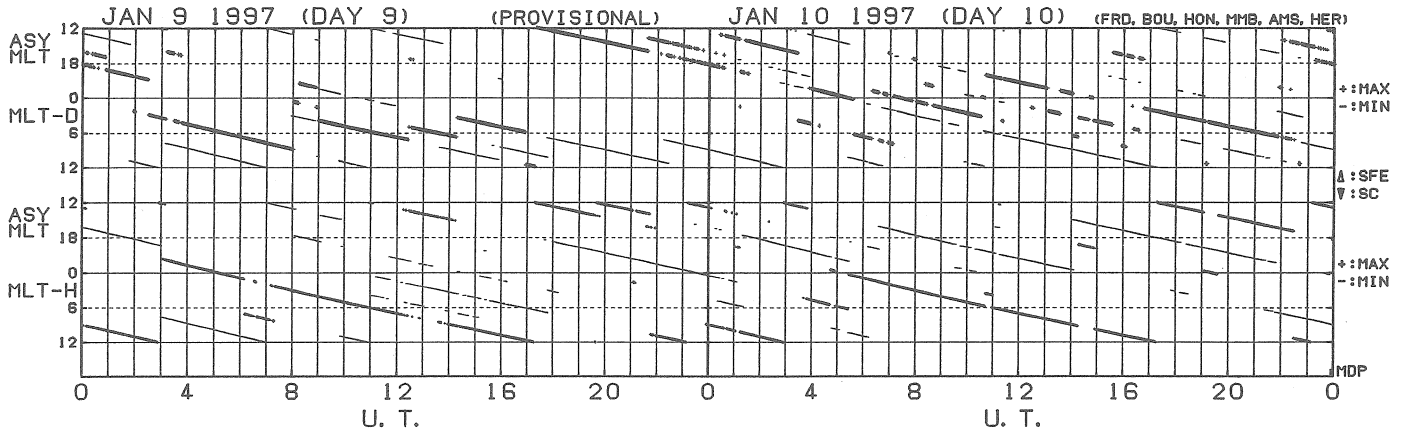
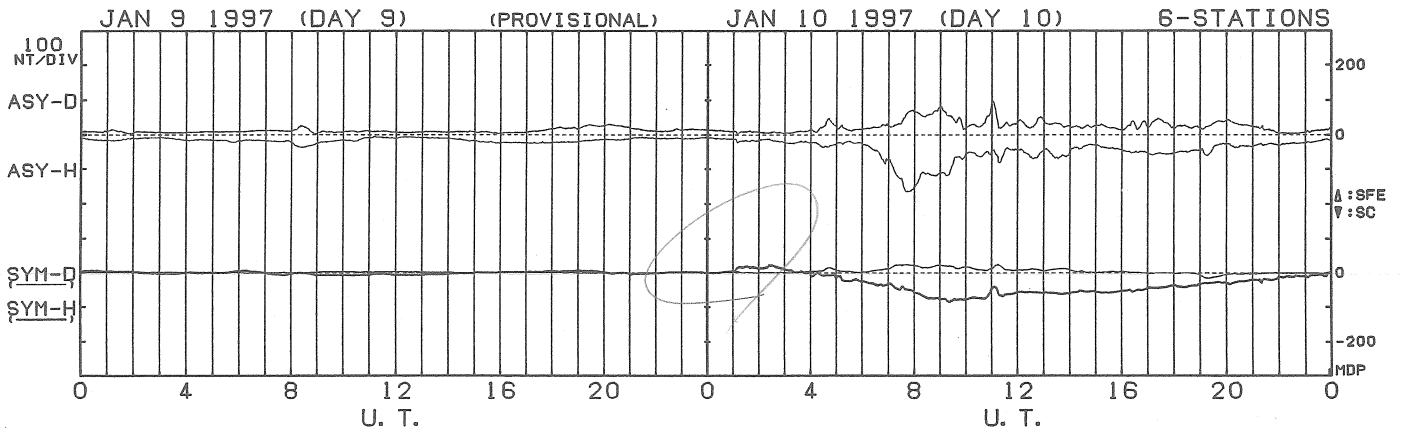
**Plots and Tables  
for  
January - December, 1997**

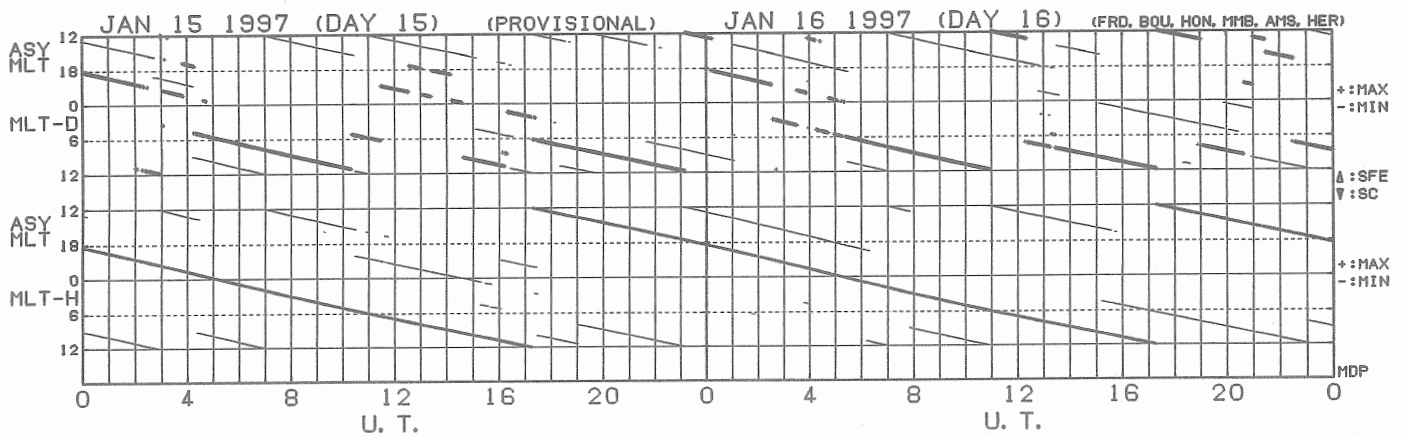
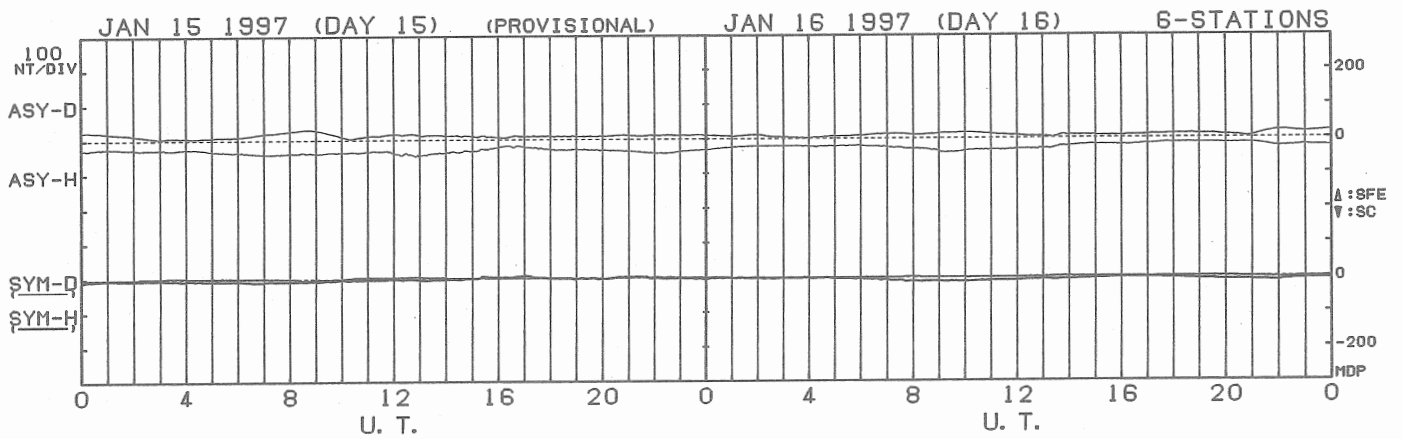
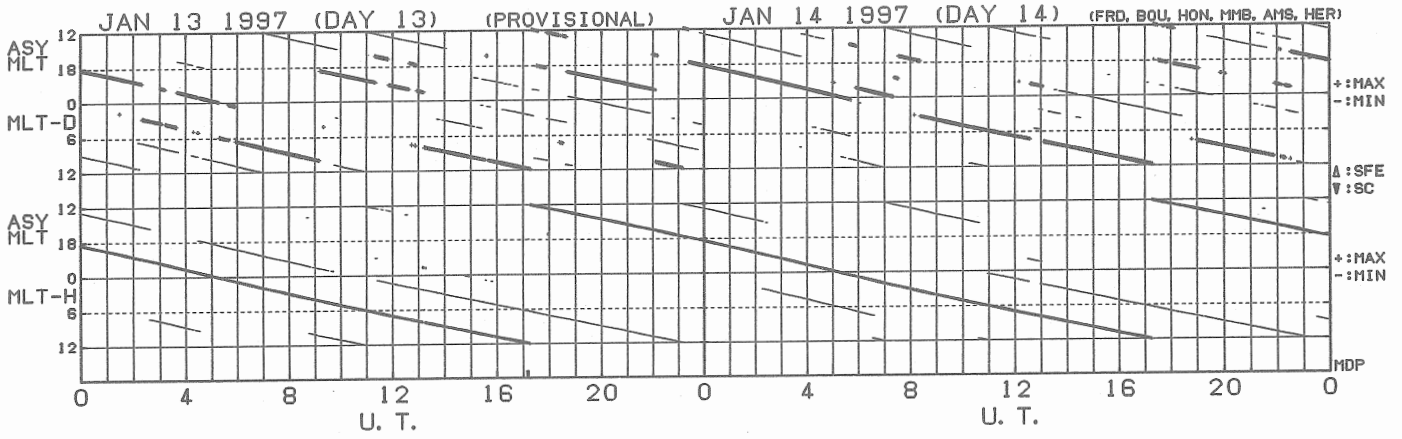
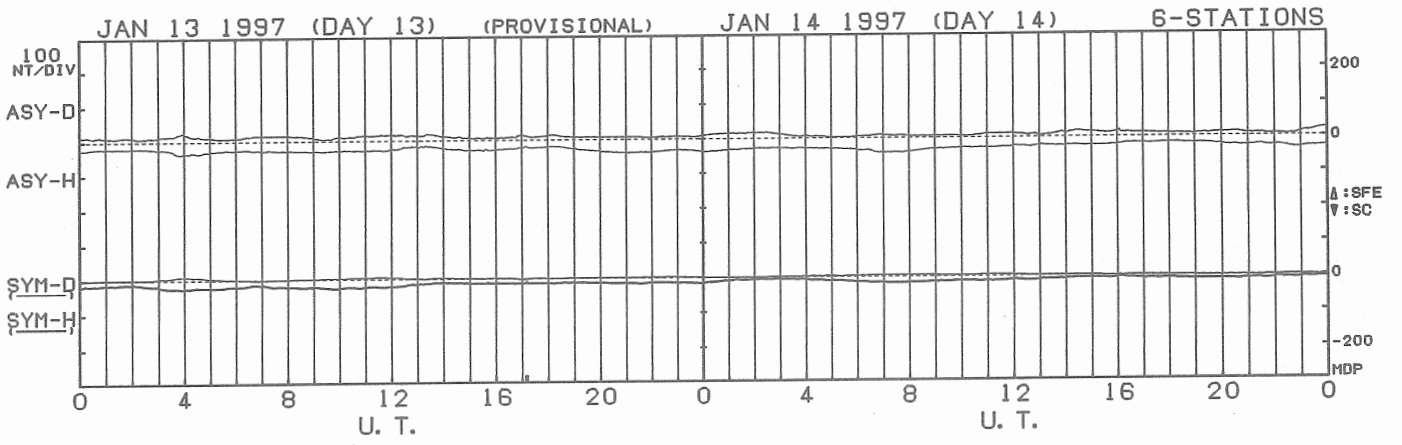


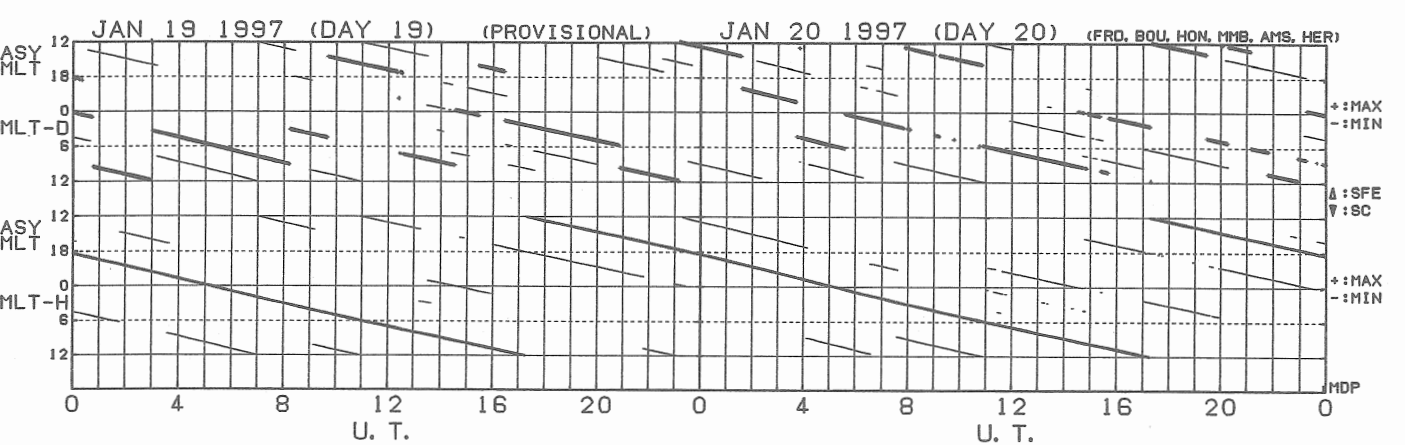
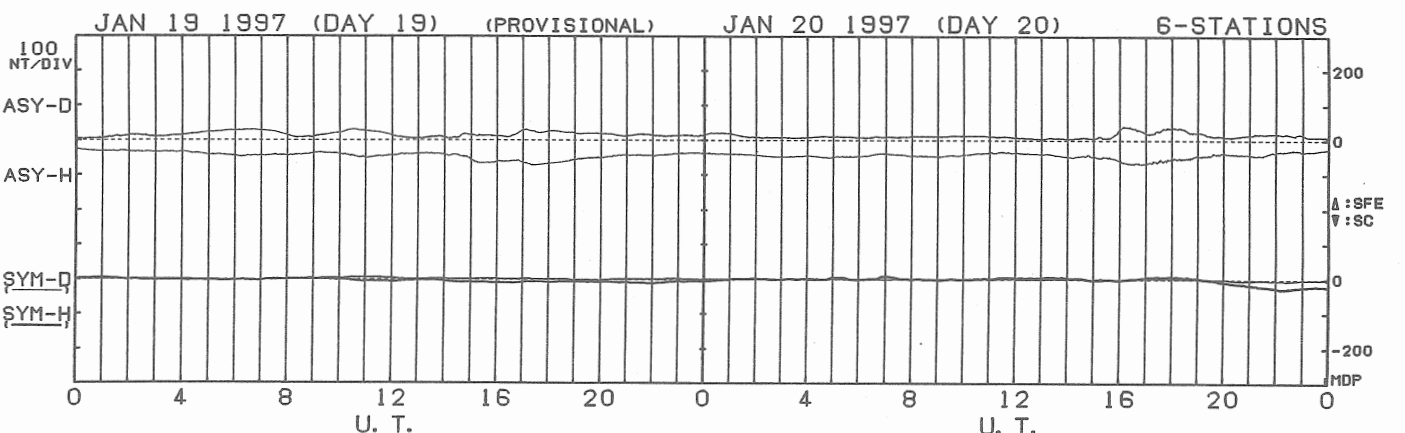
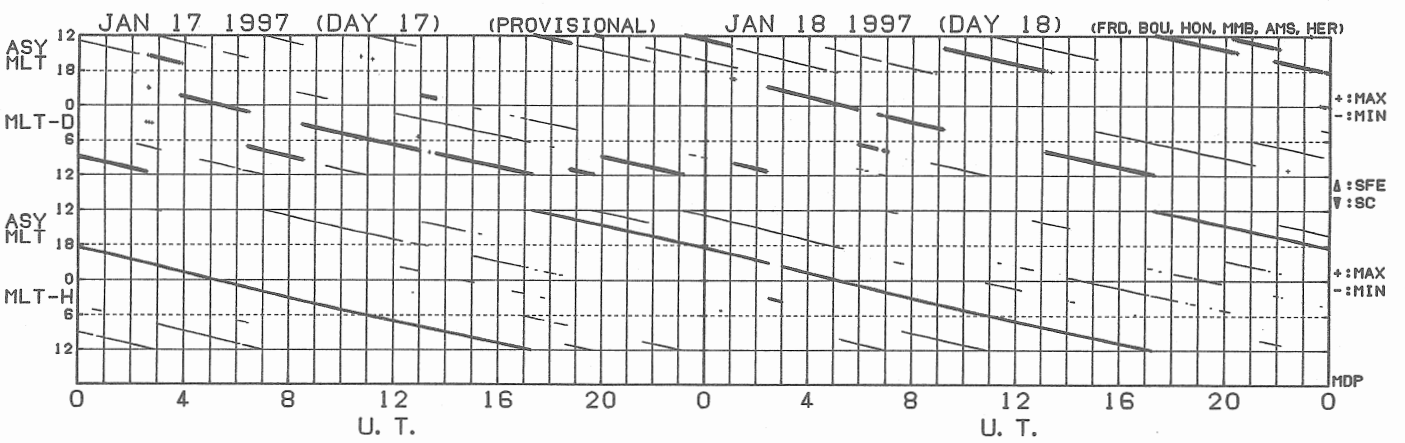
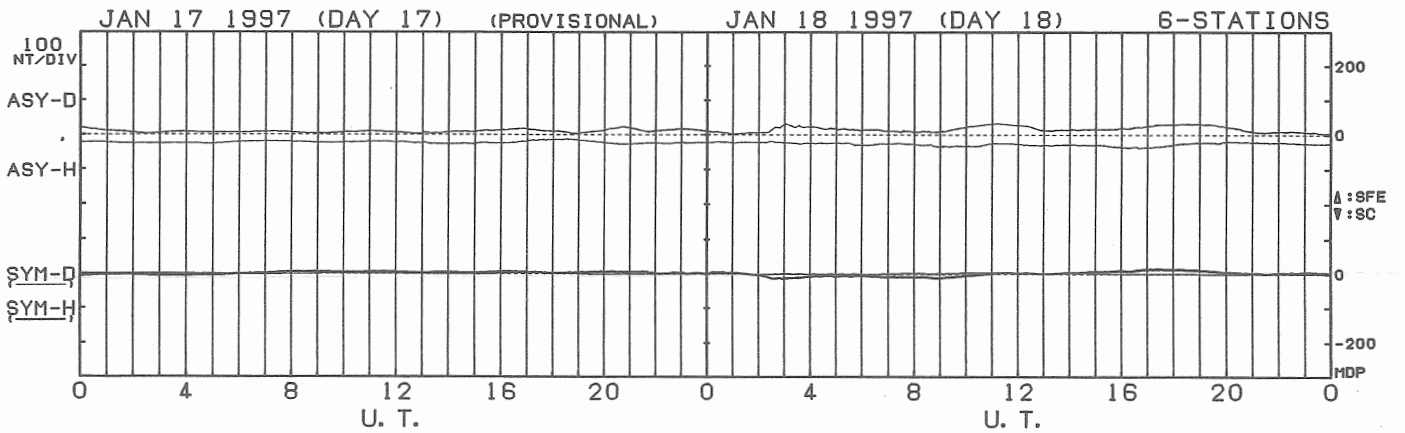


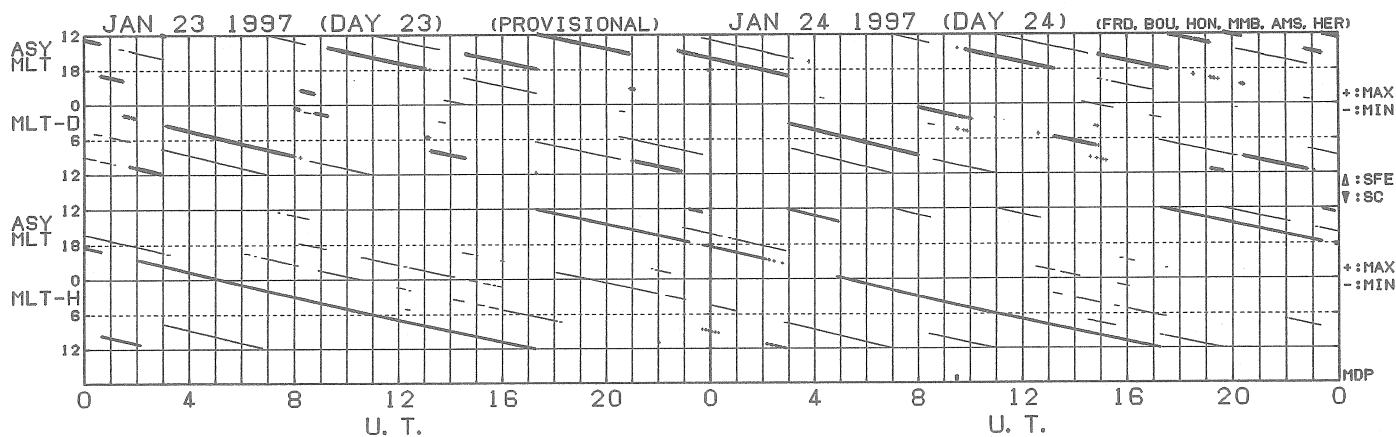
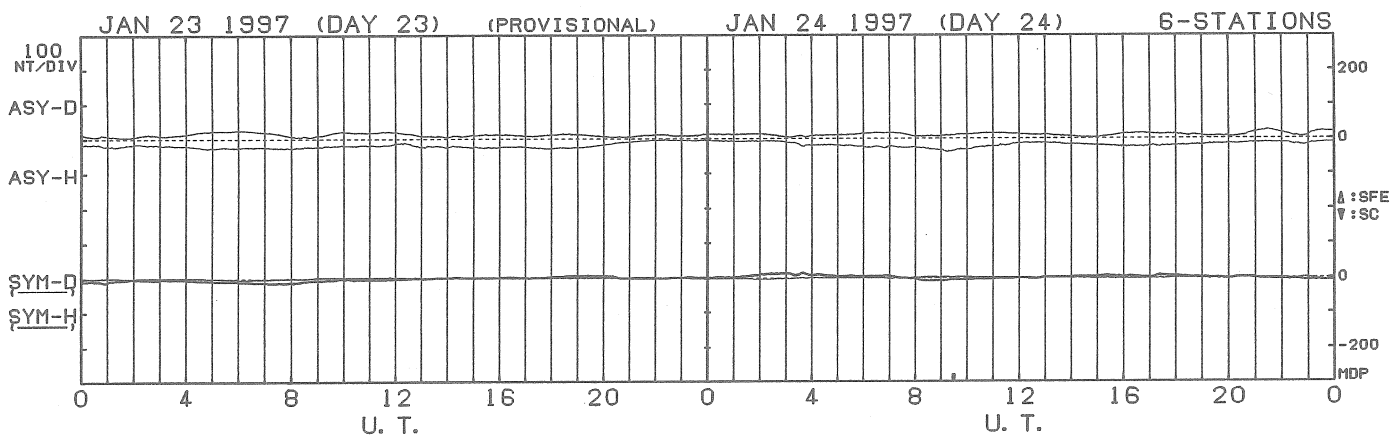
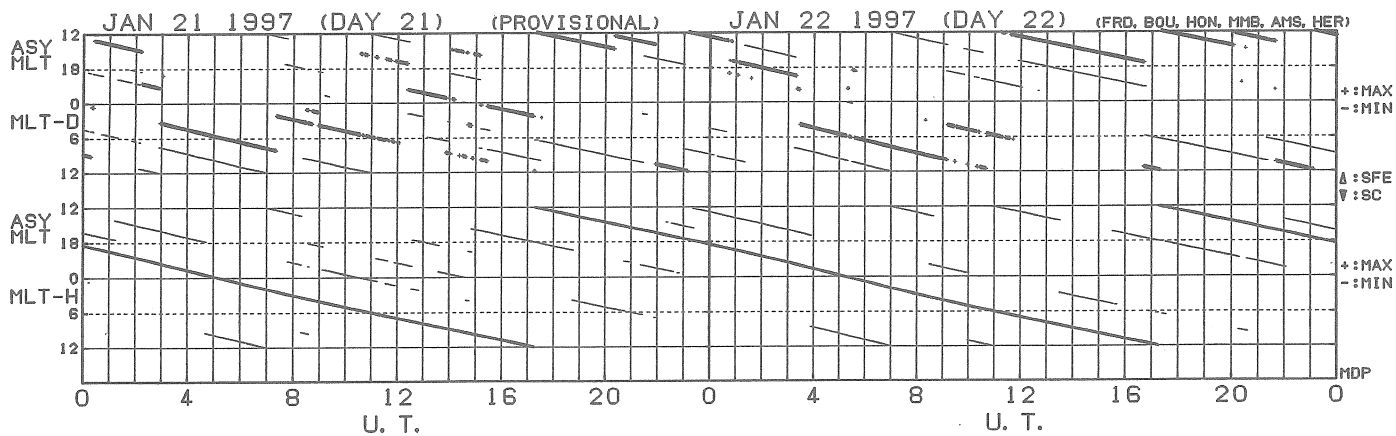
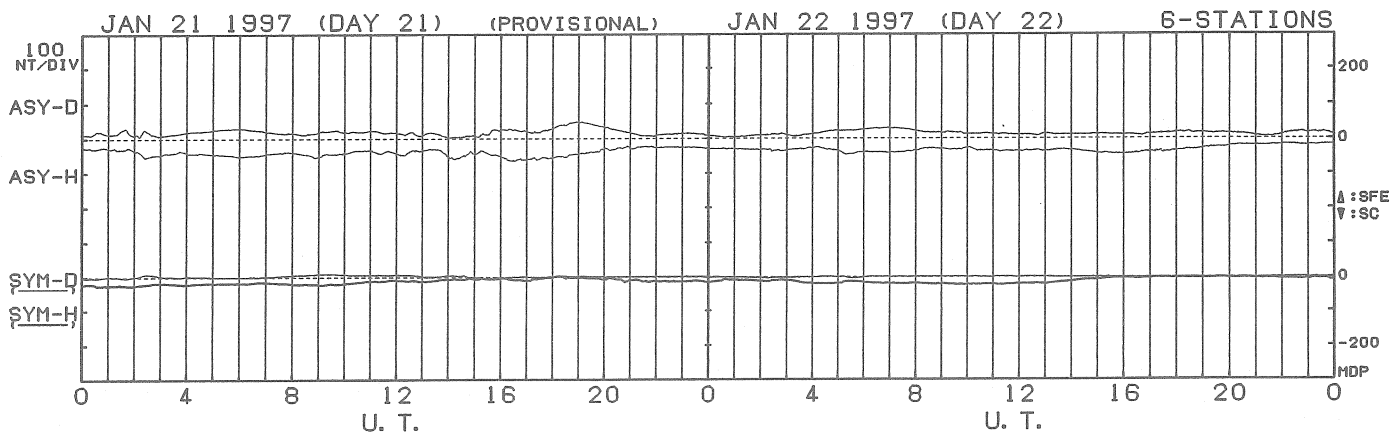


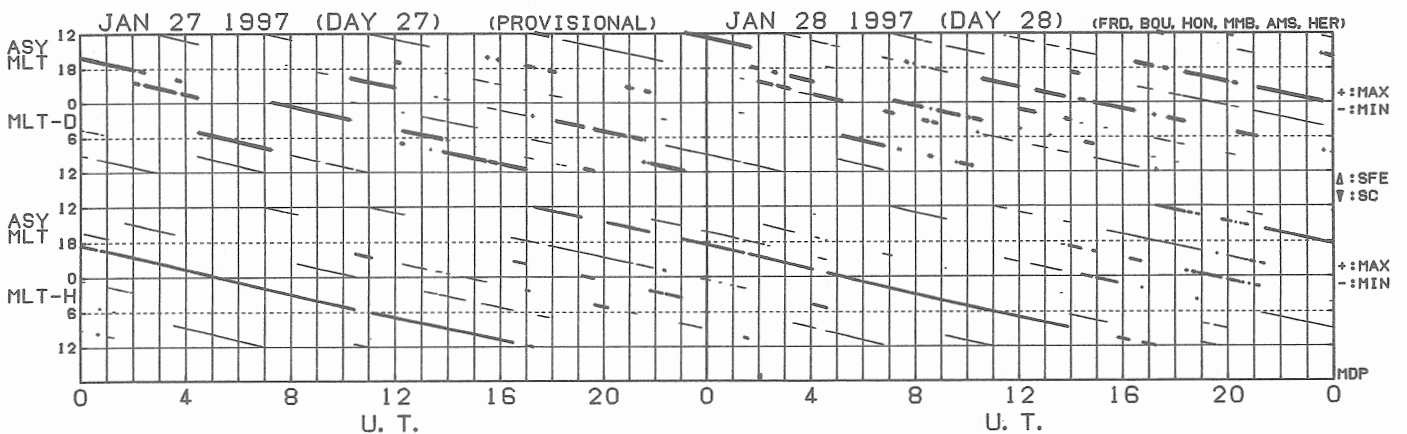
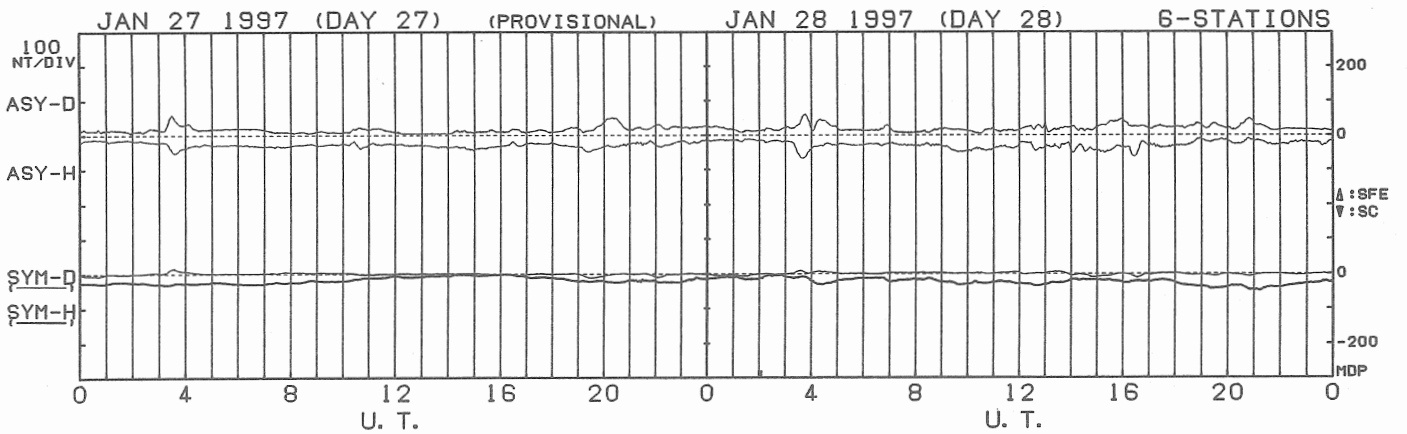
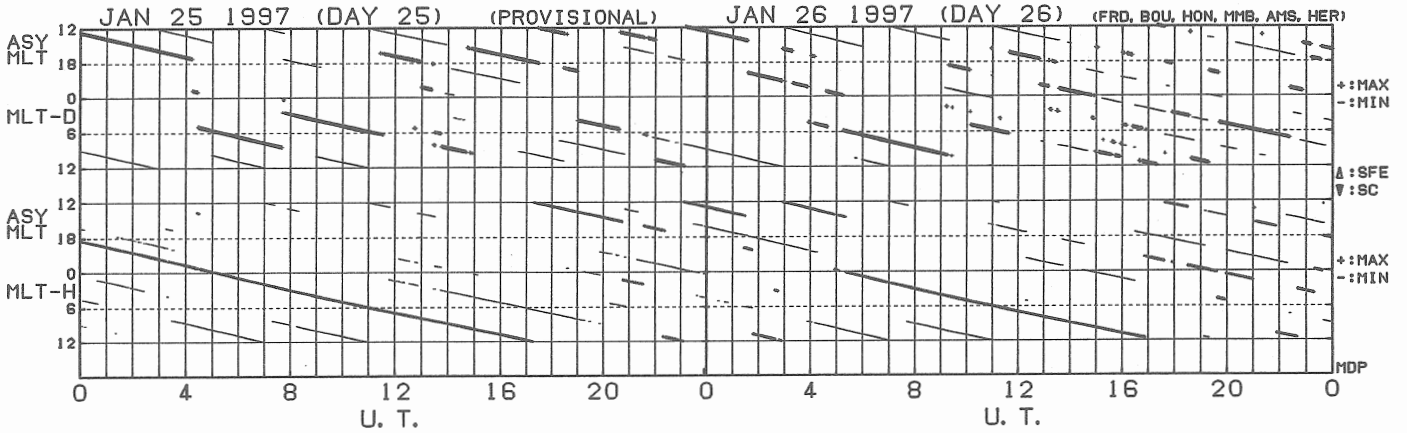
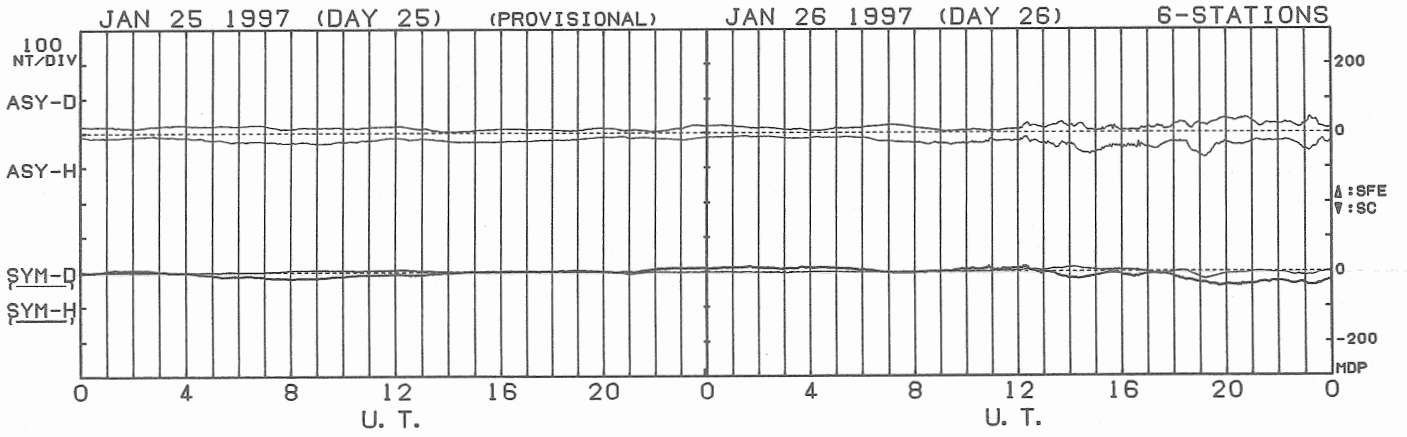


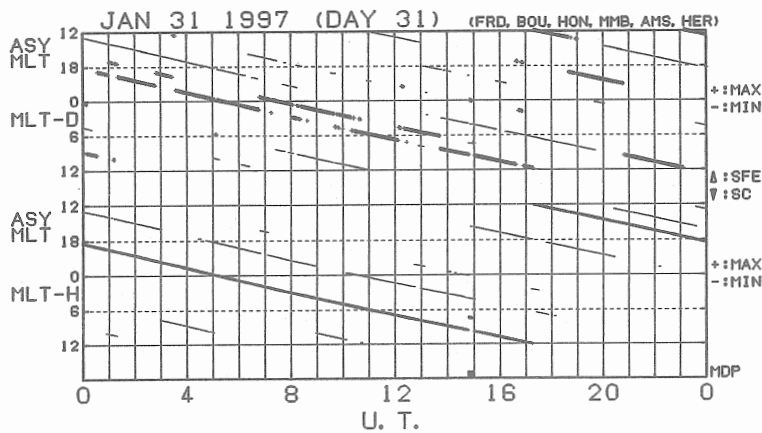
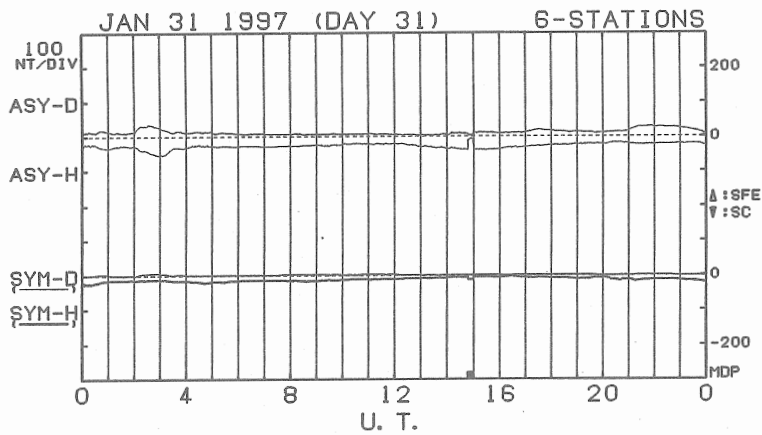
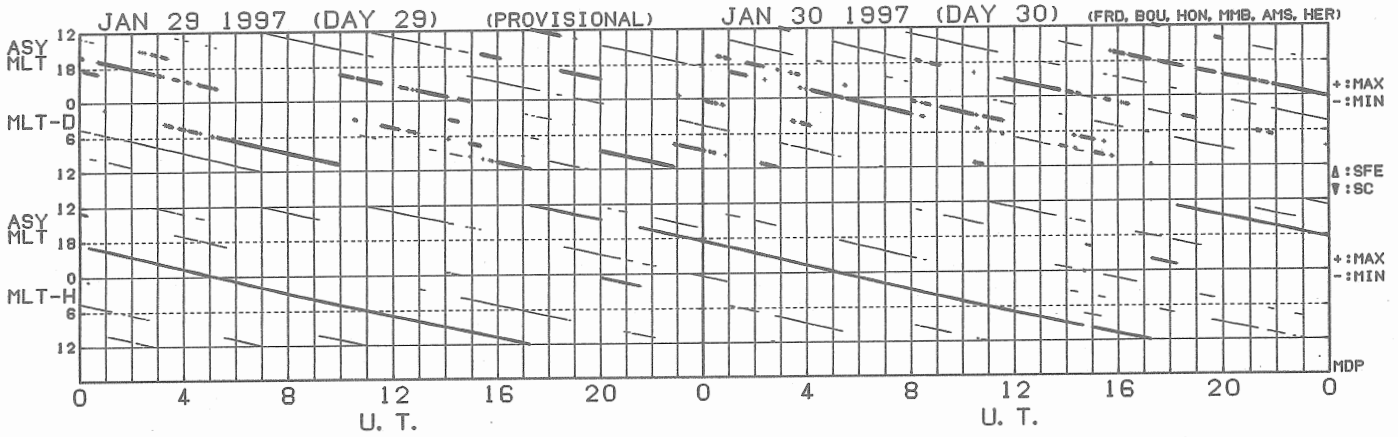
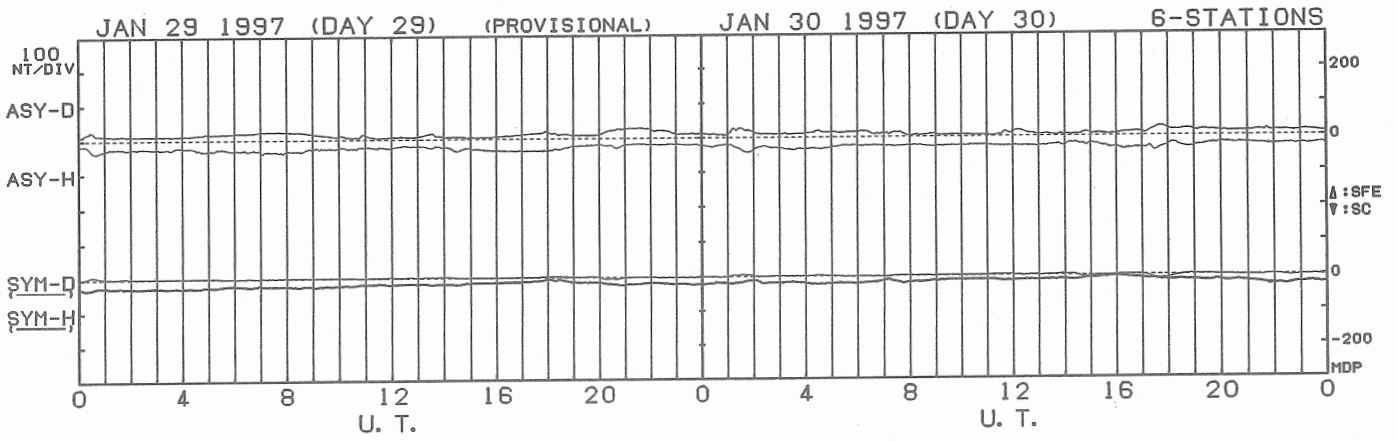




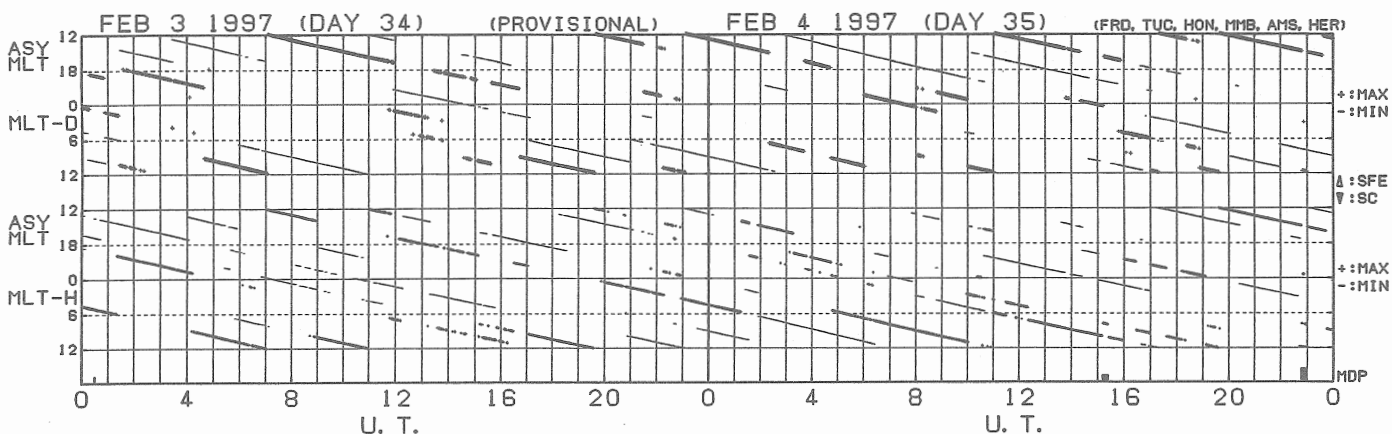
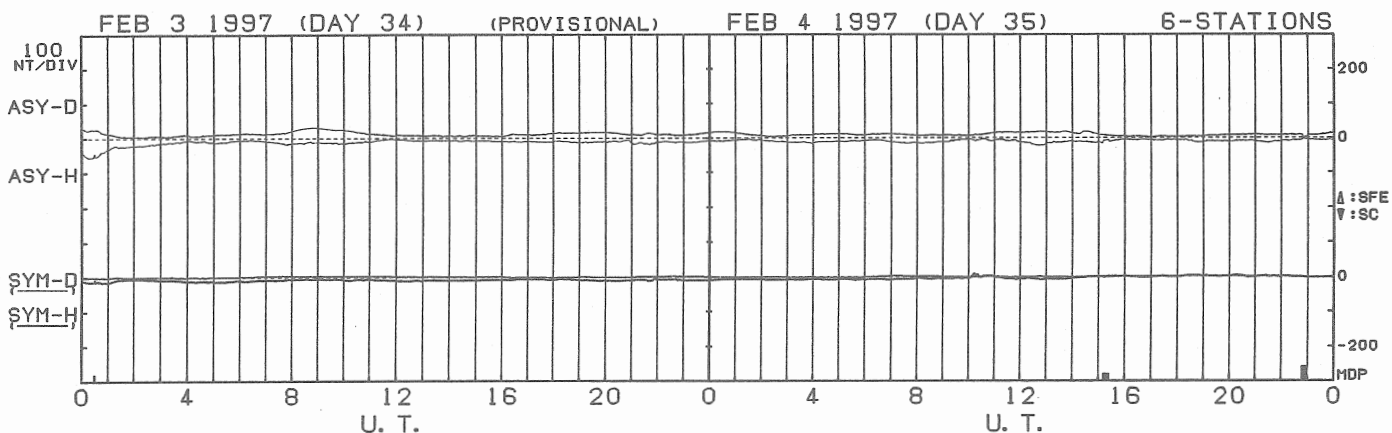
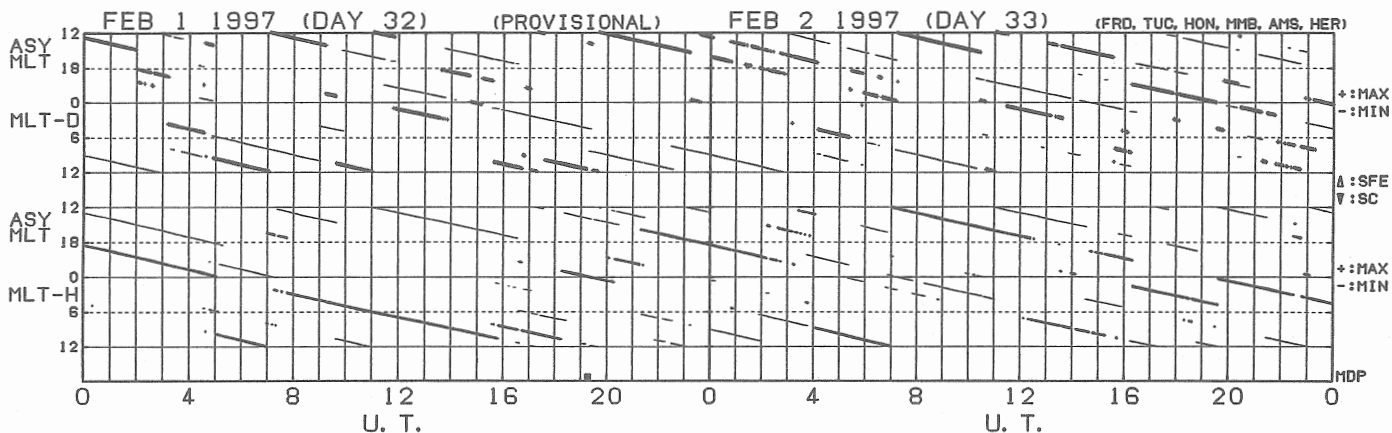
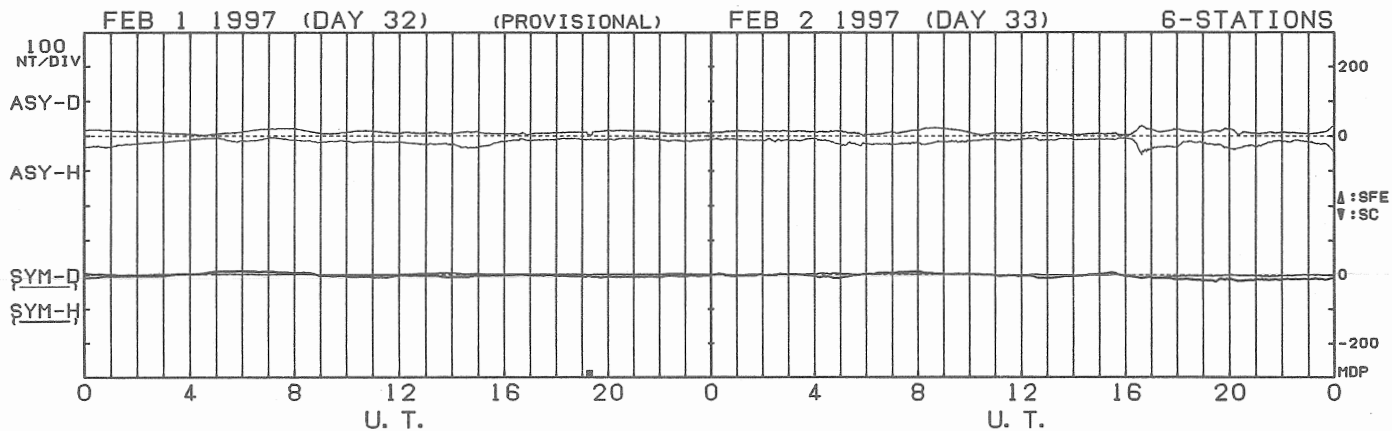


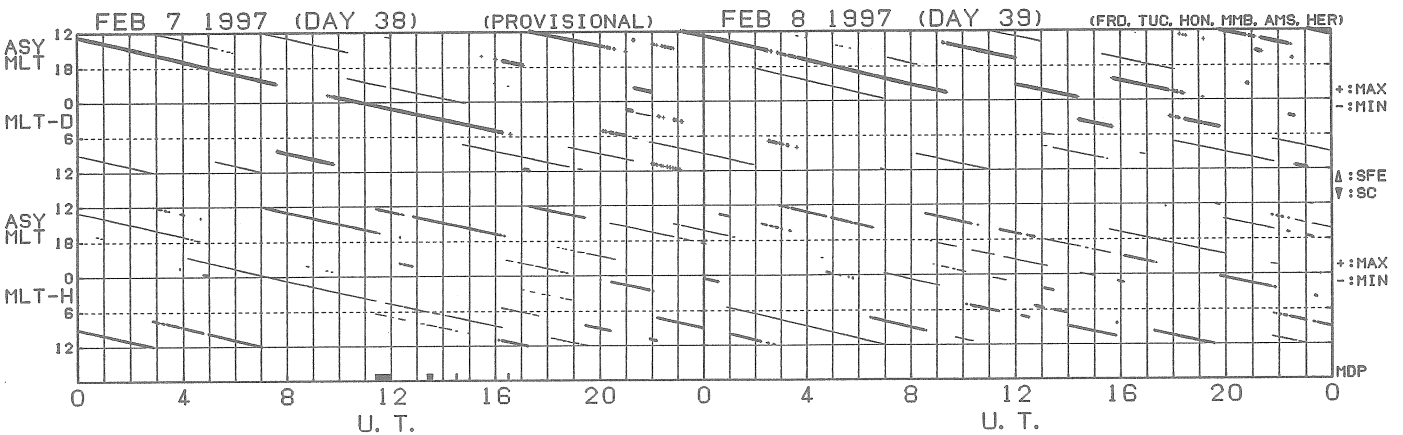
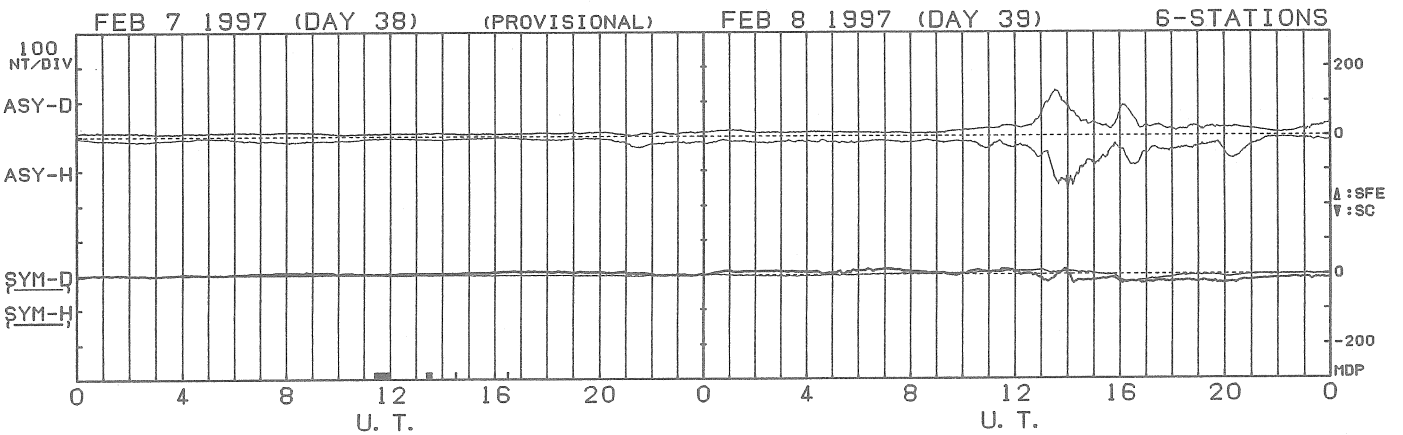
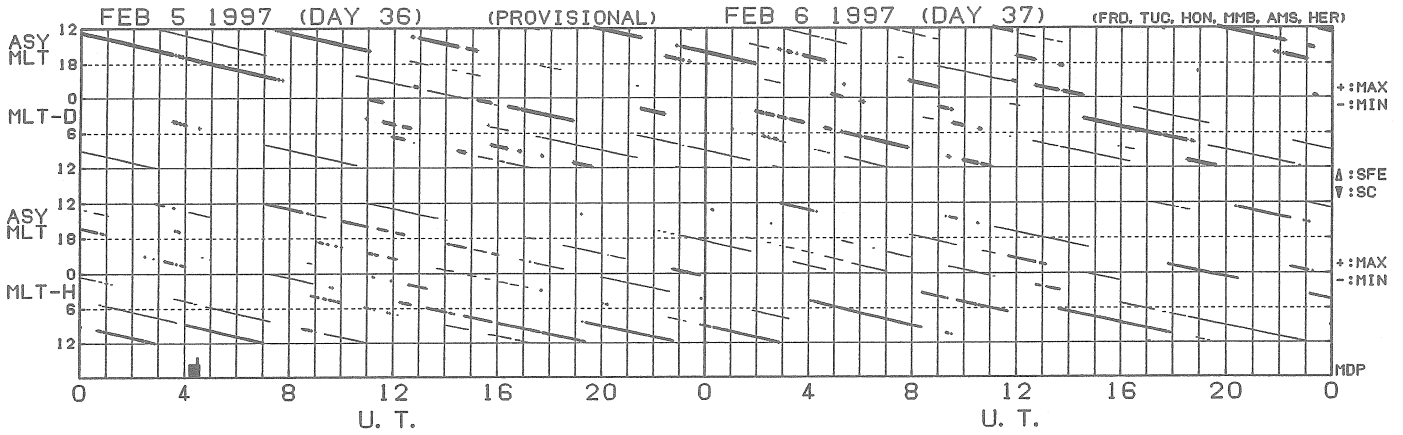
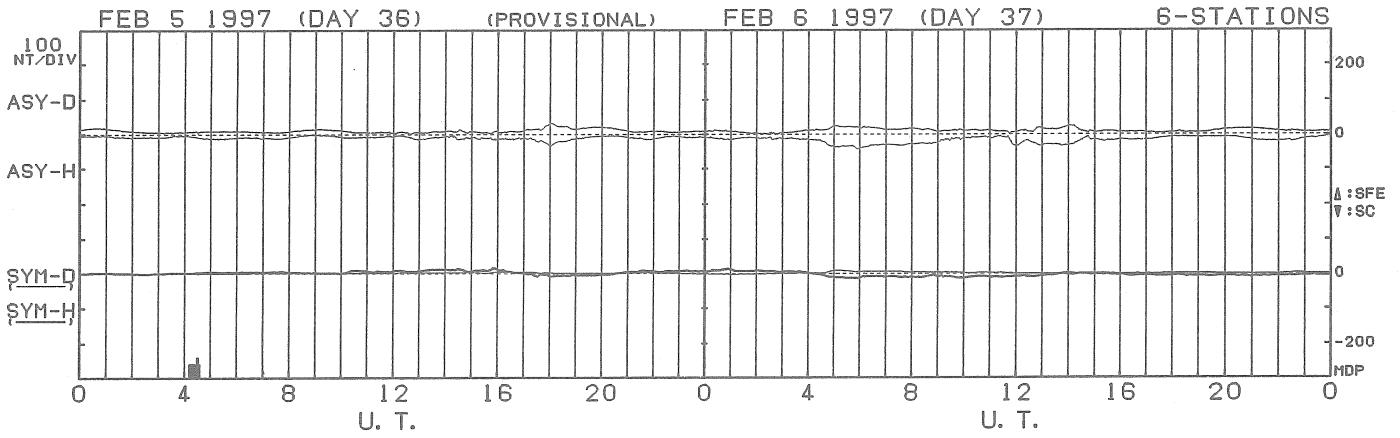


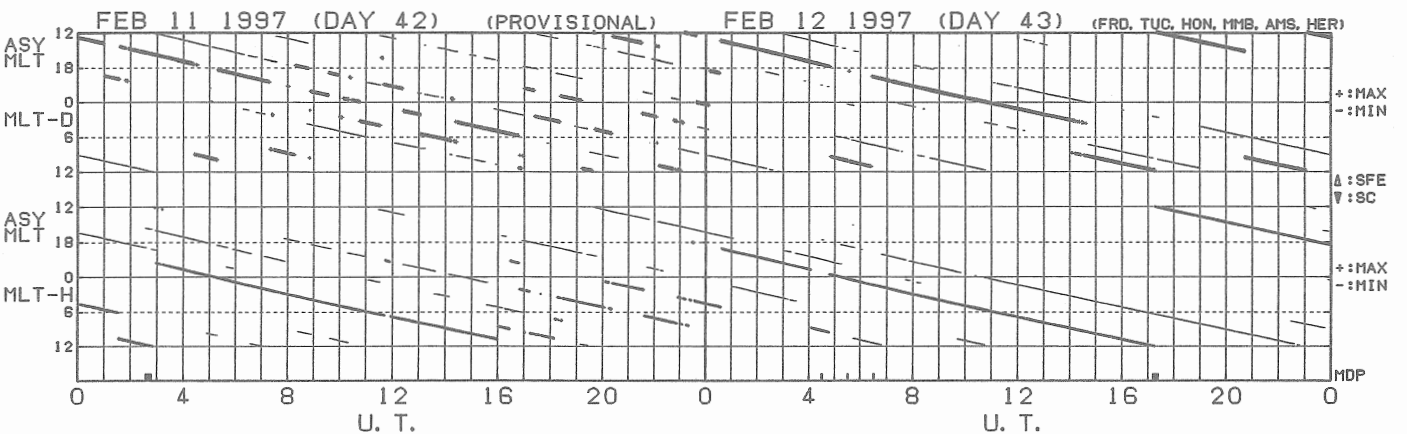
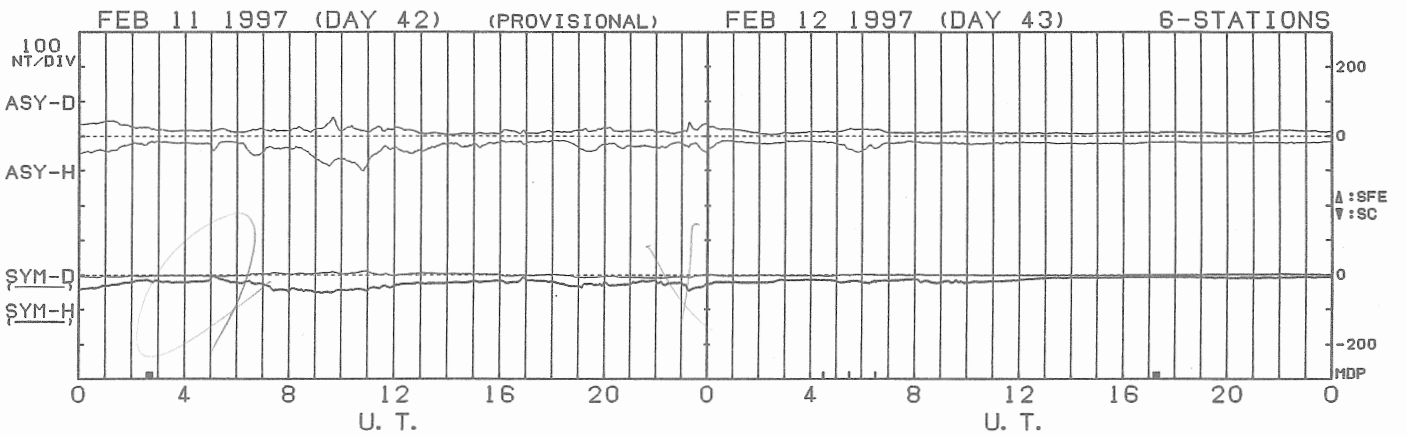
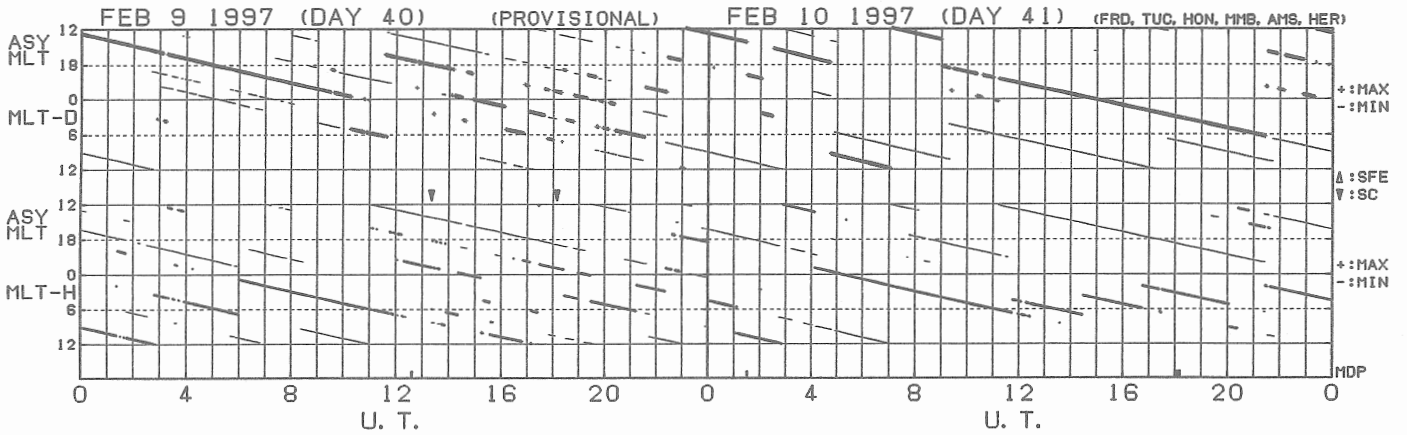
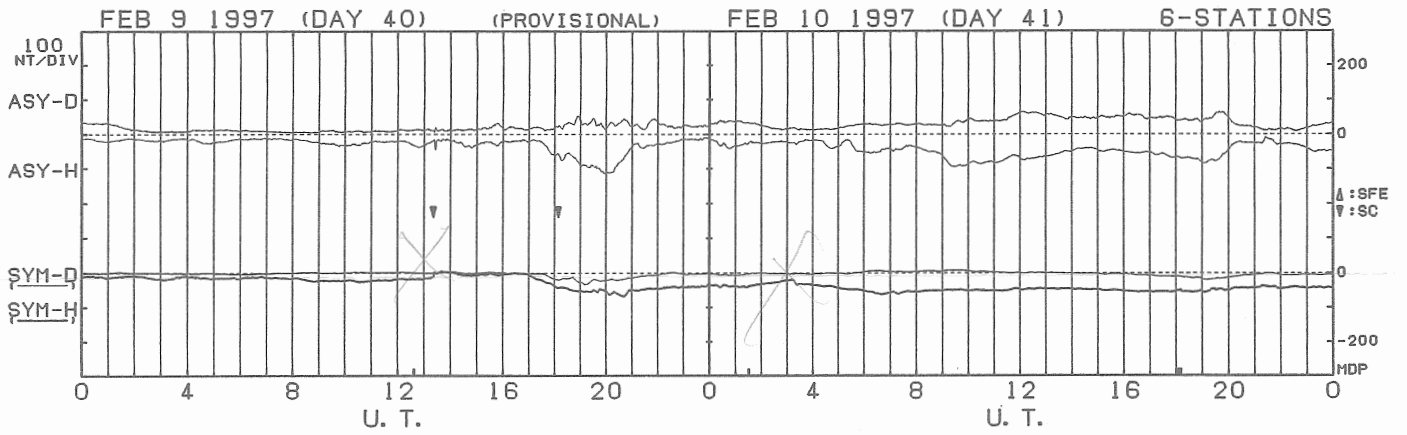


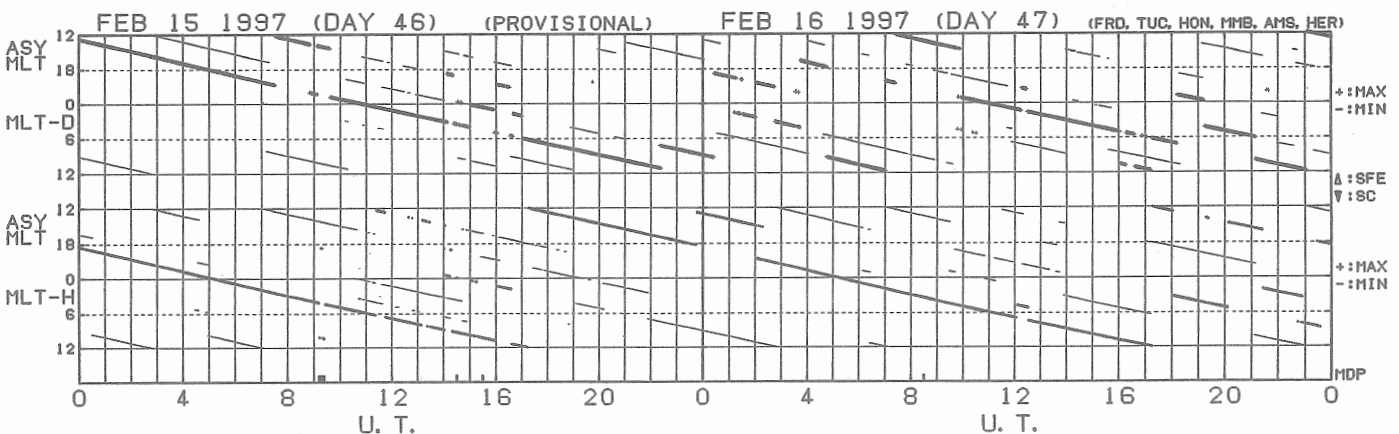
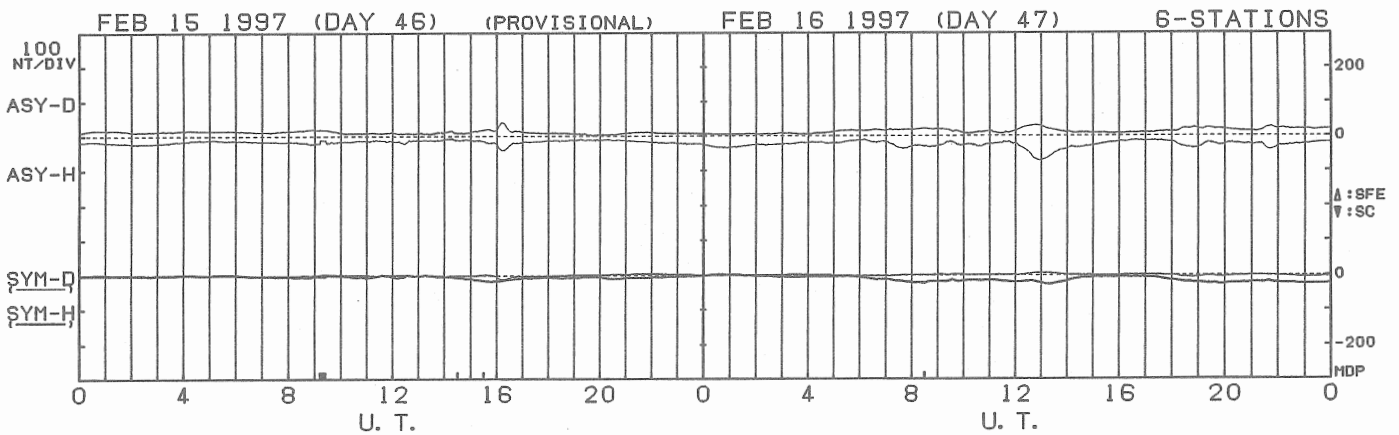
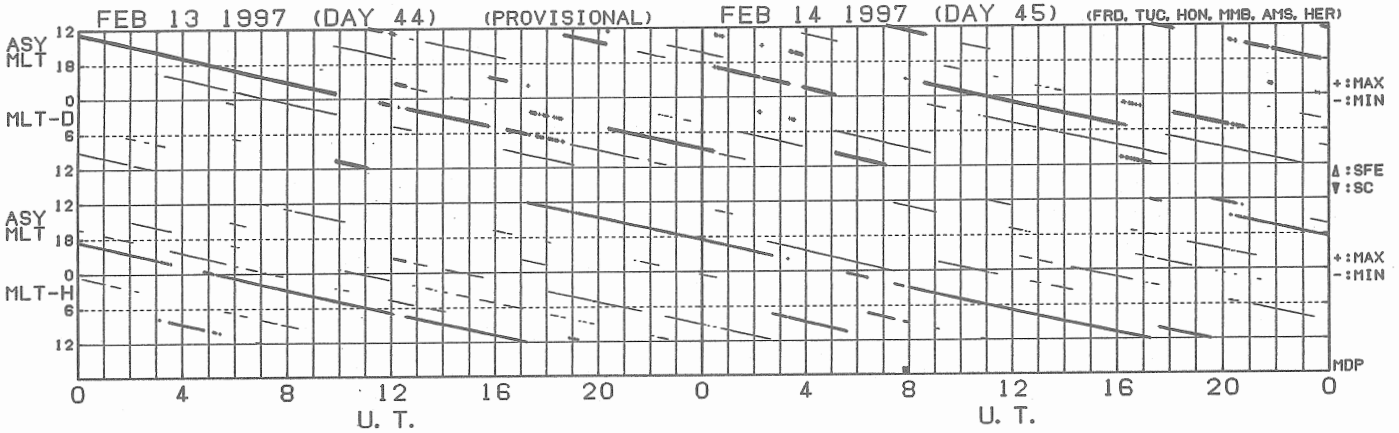
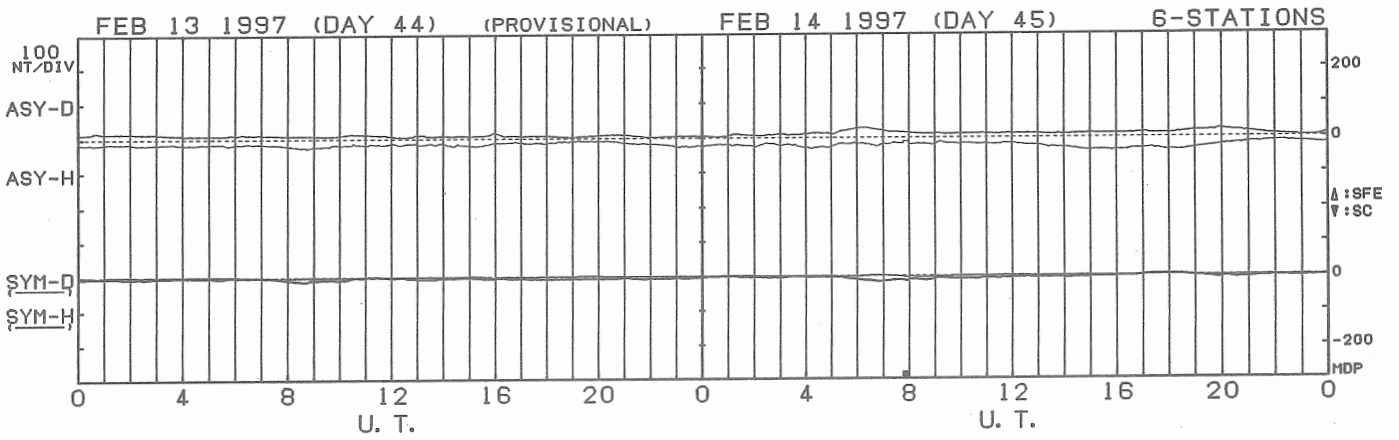


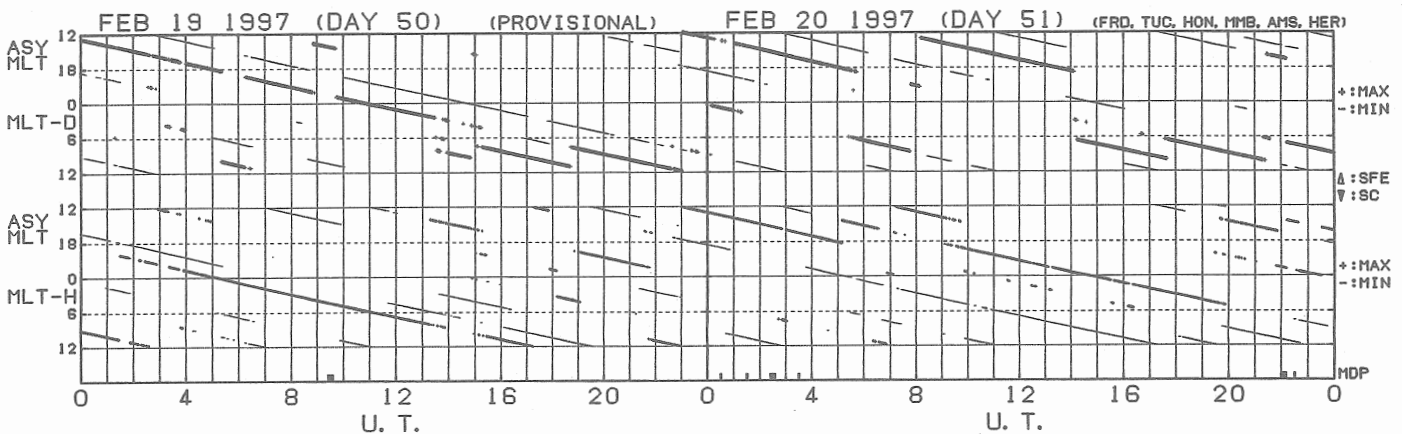
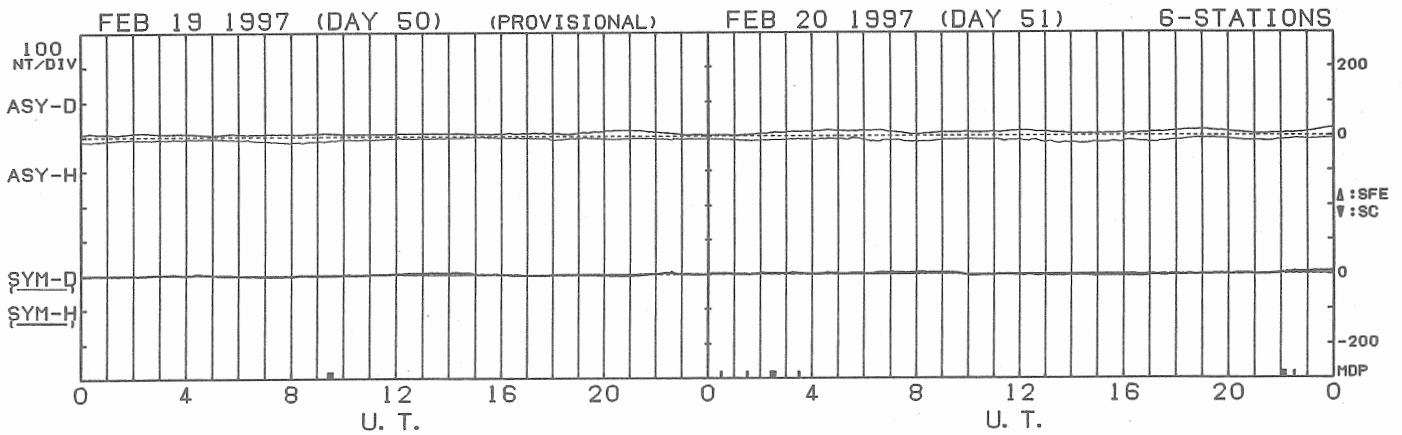
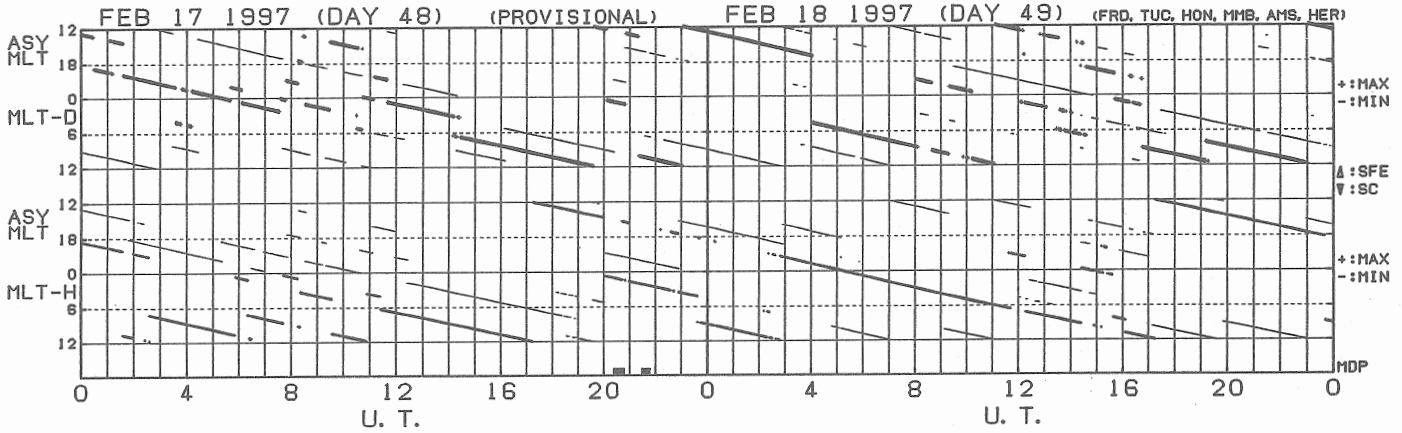
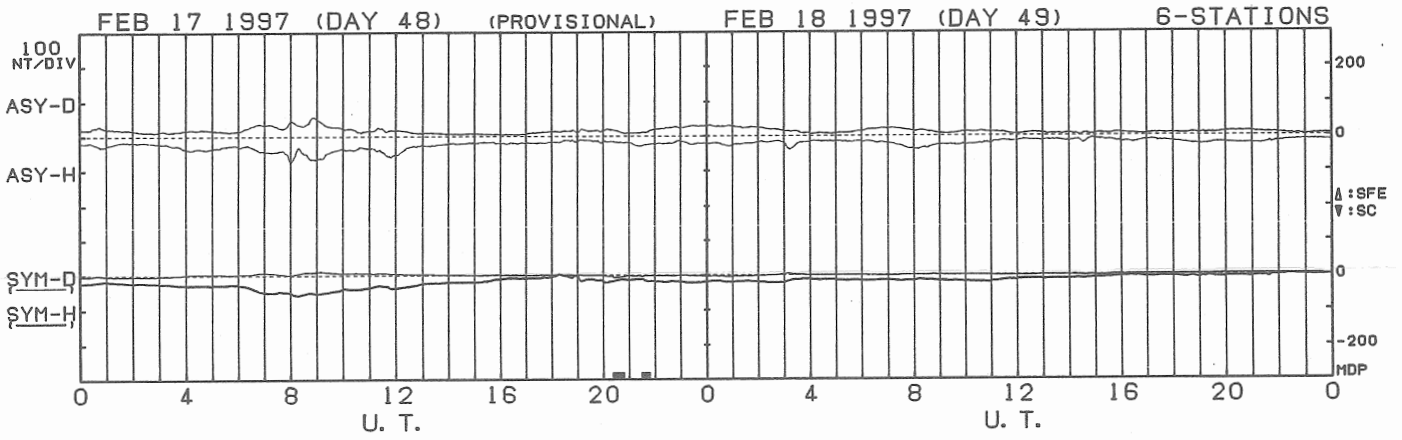


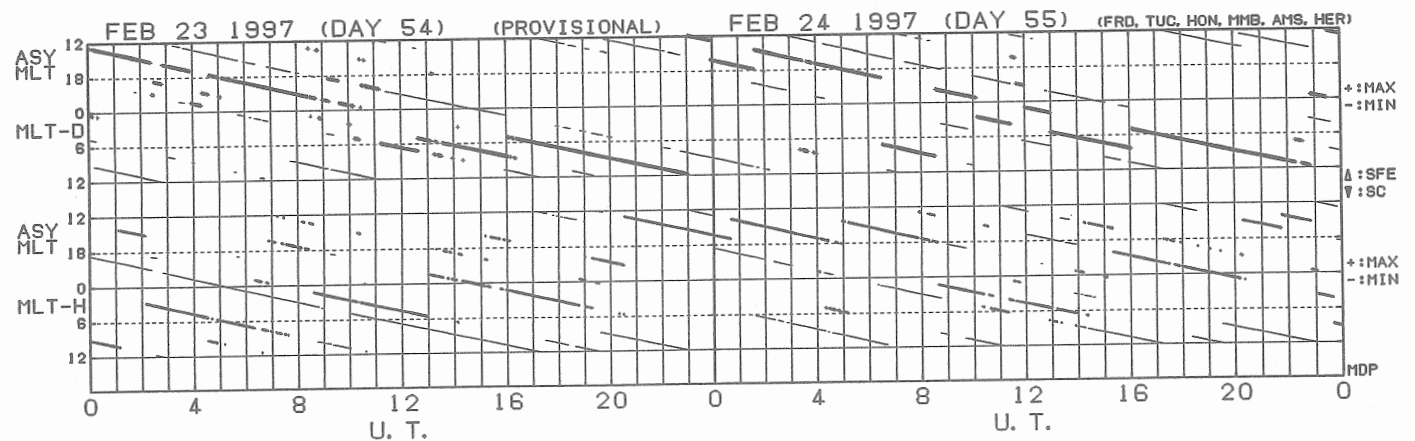
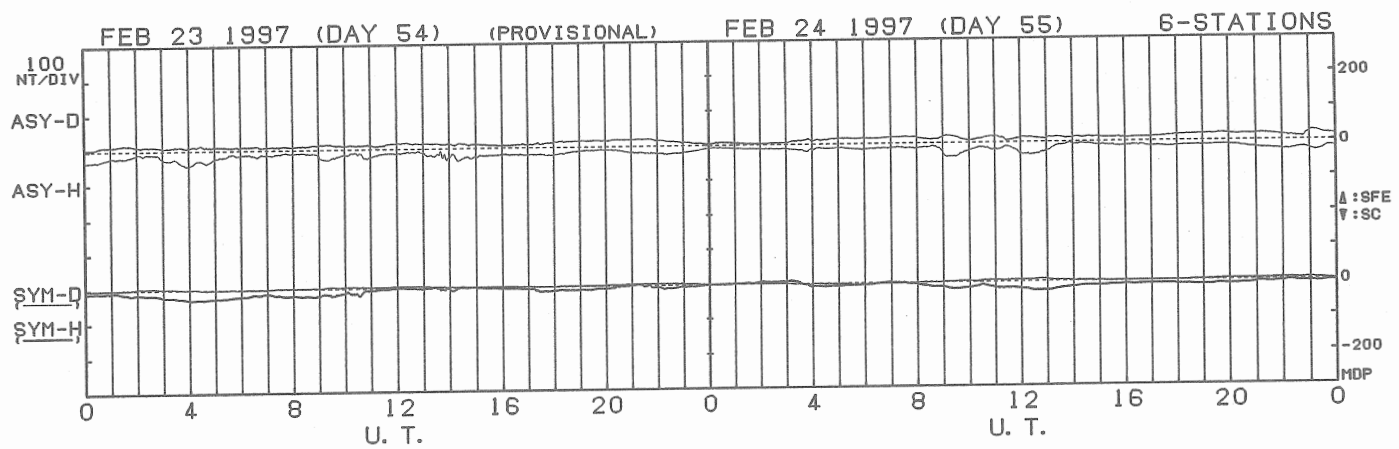
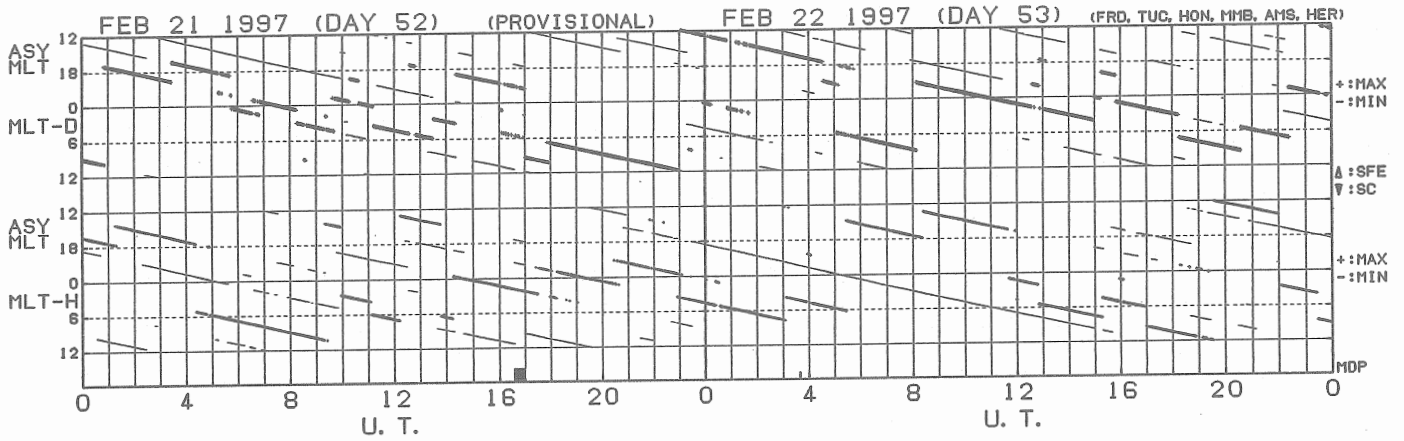
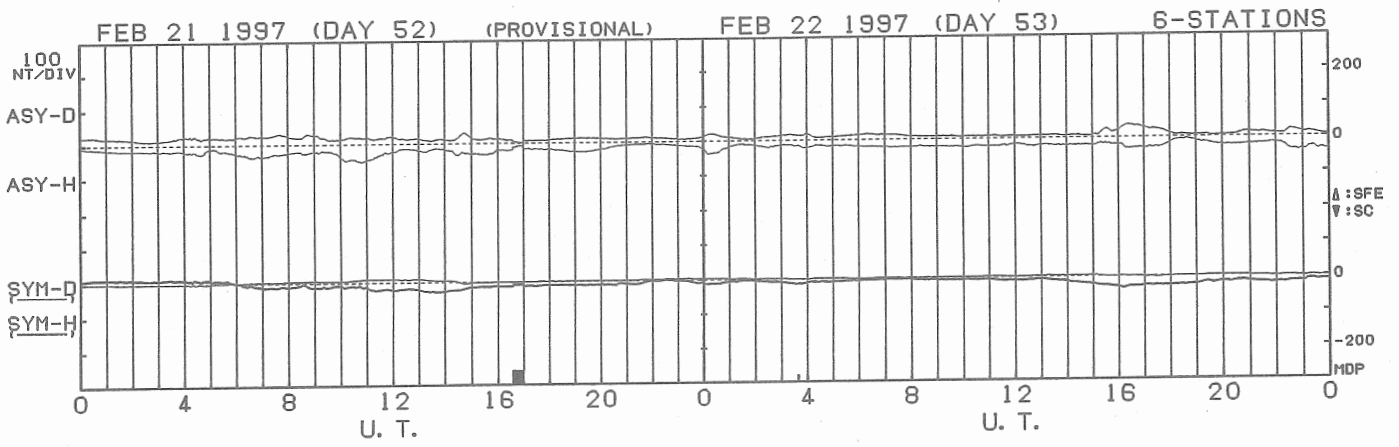


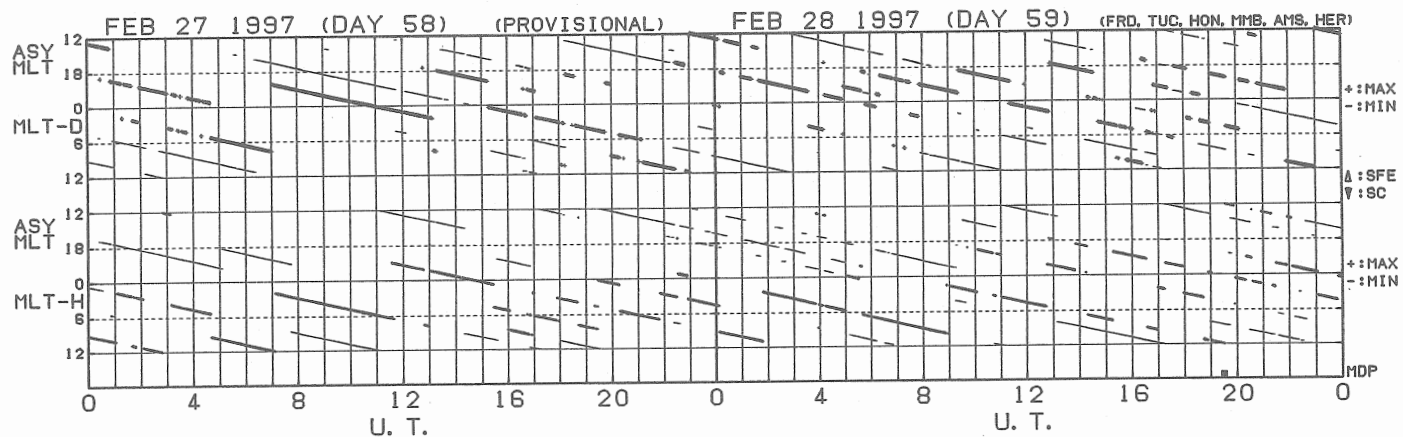
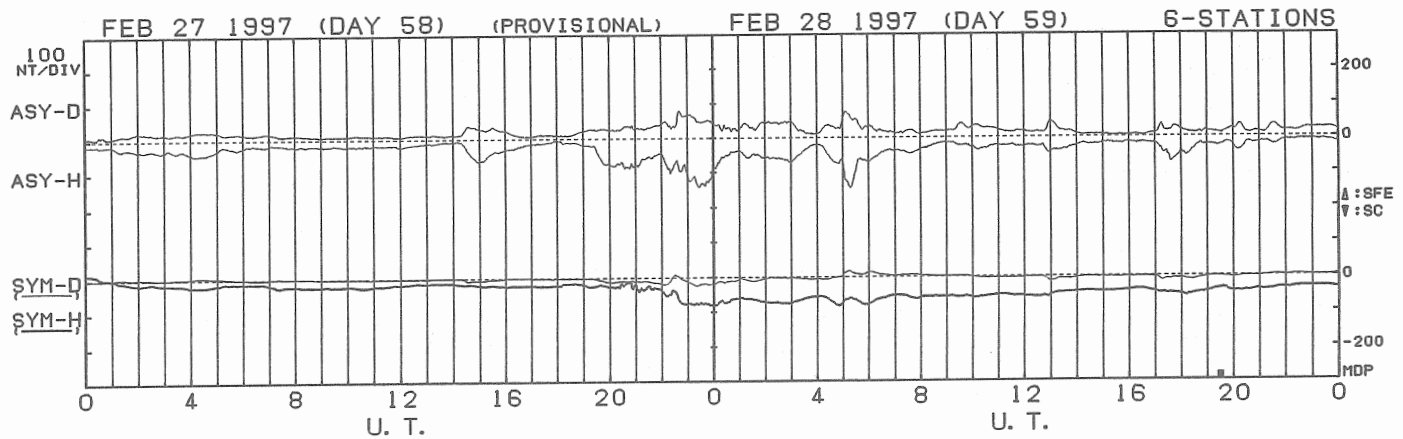
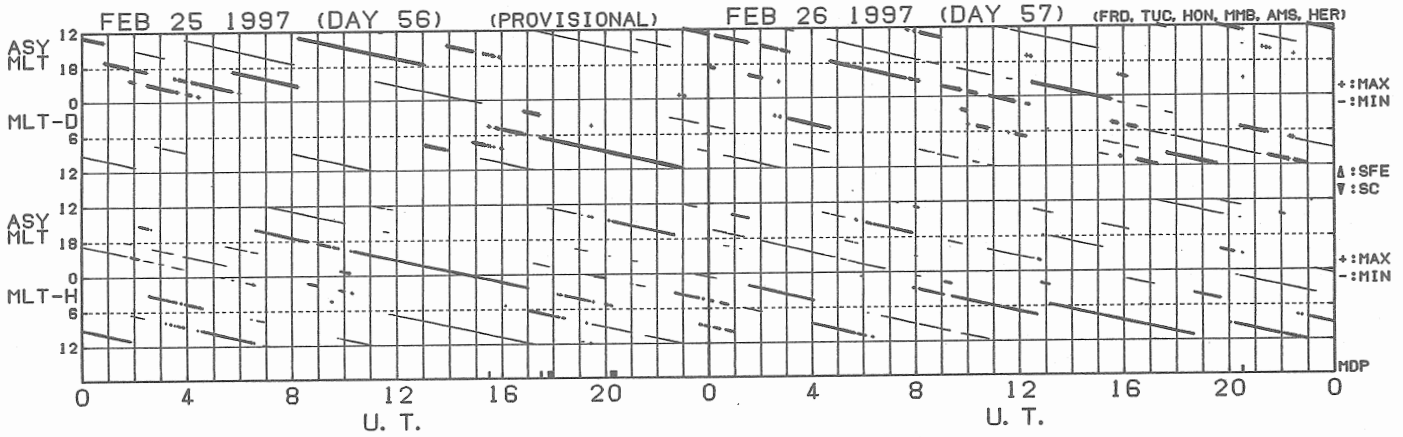
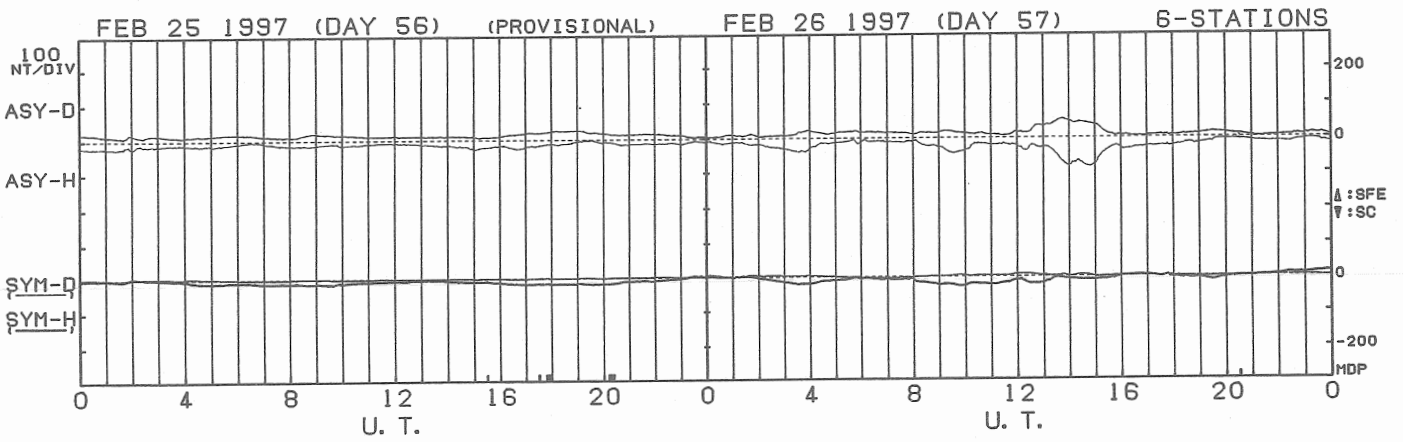


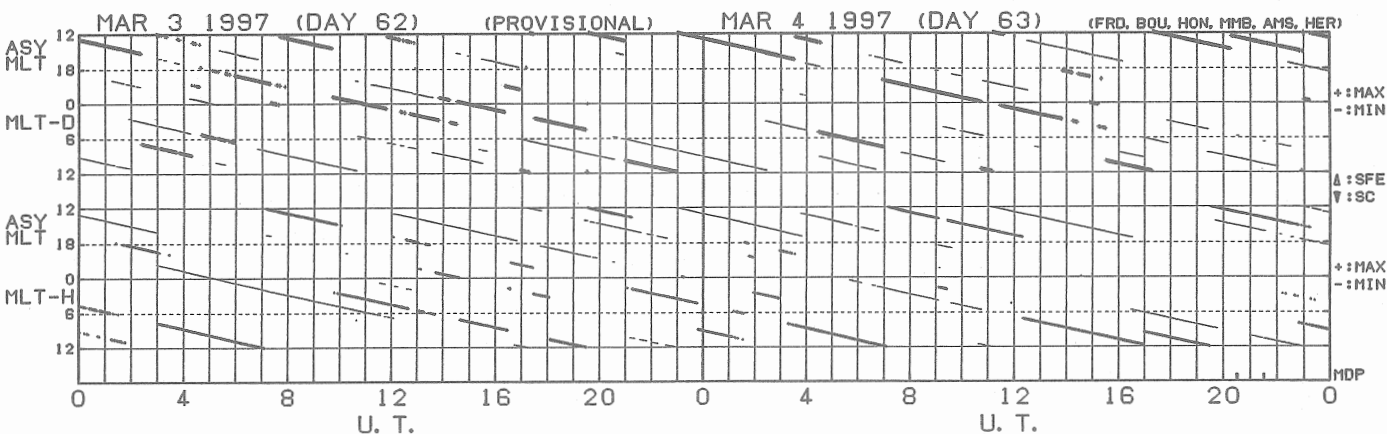
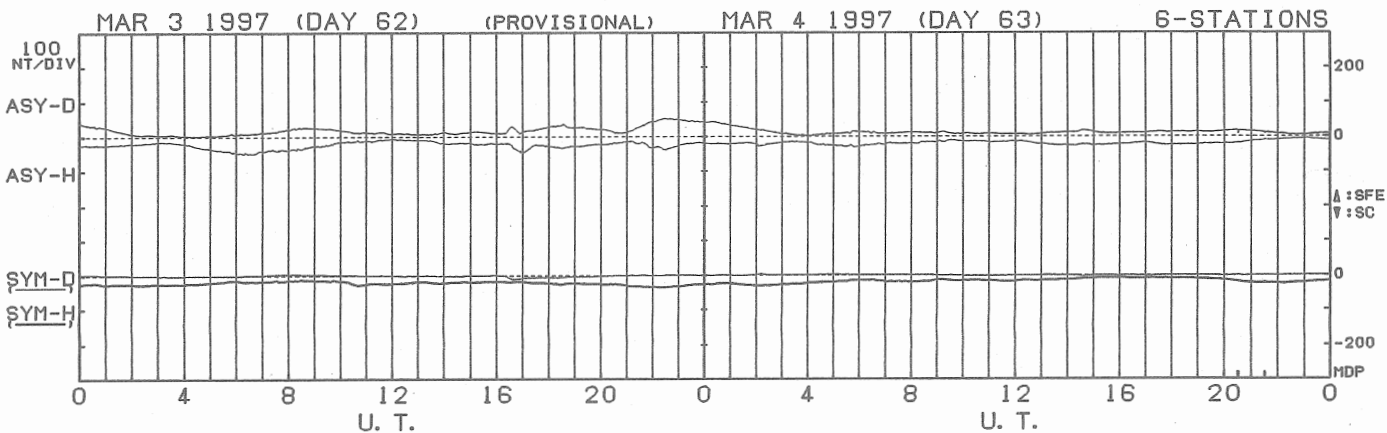
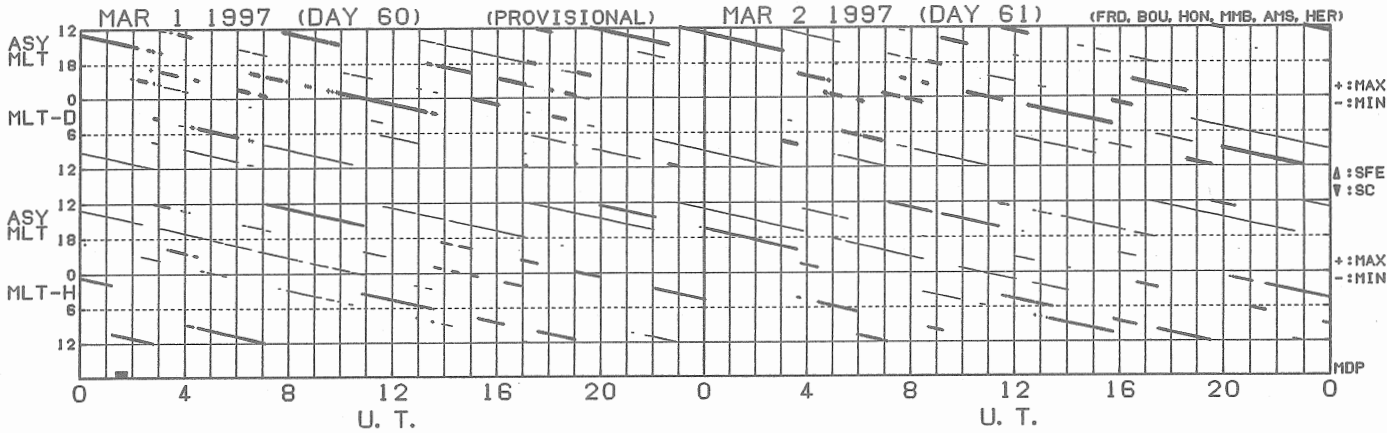
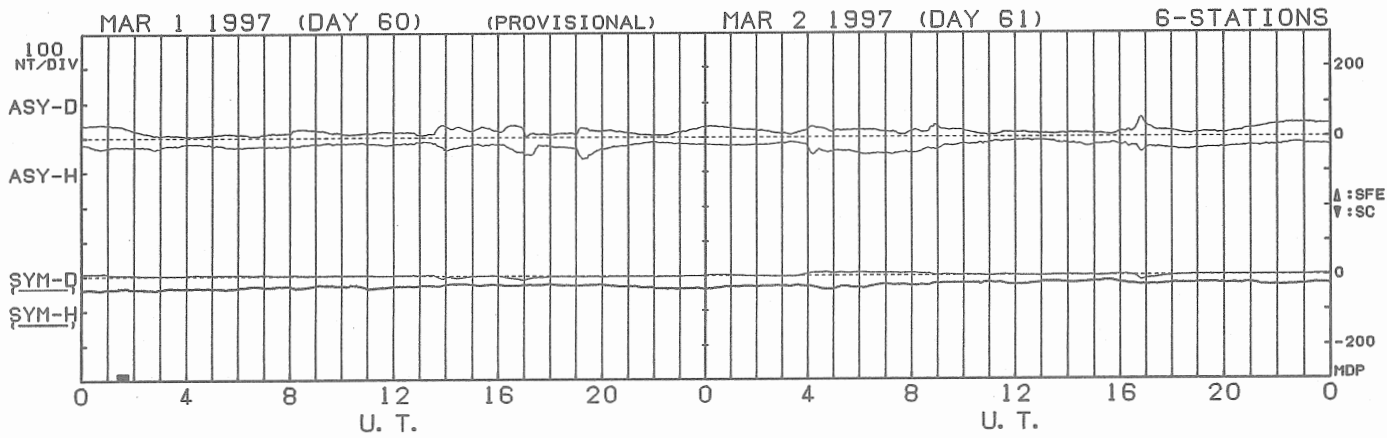




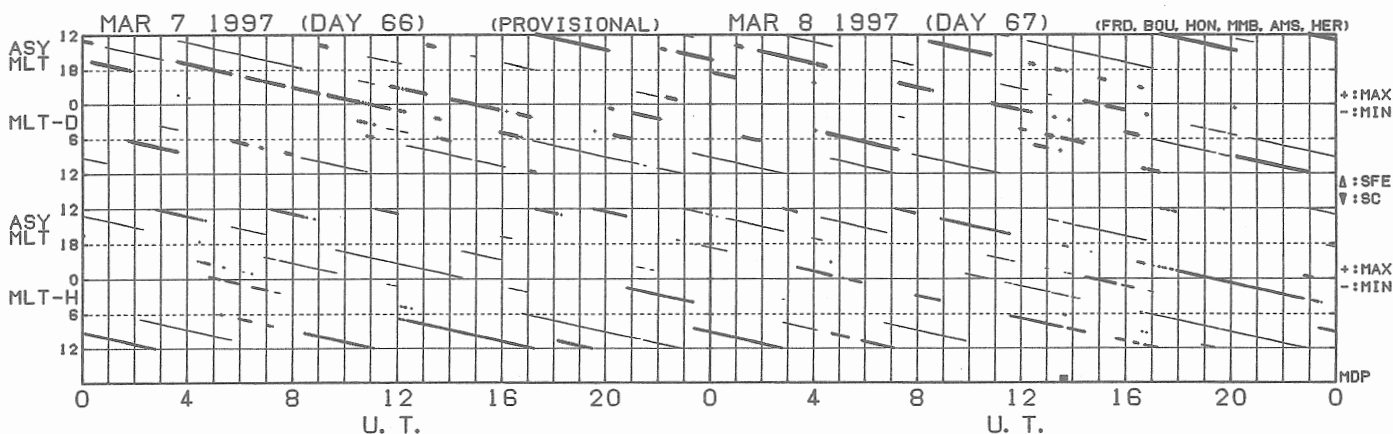
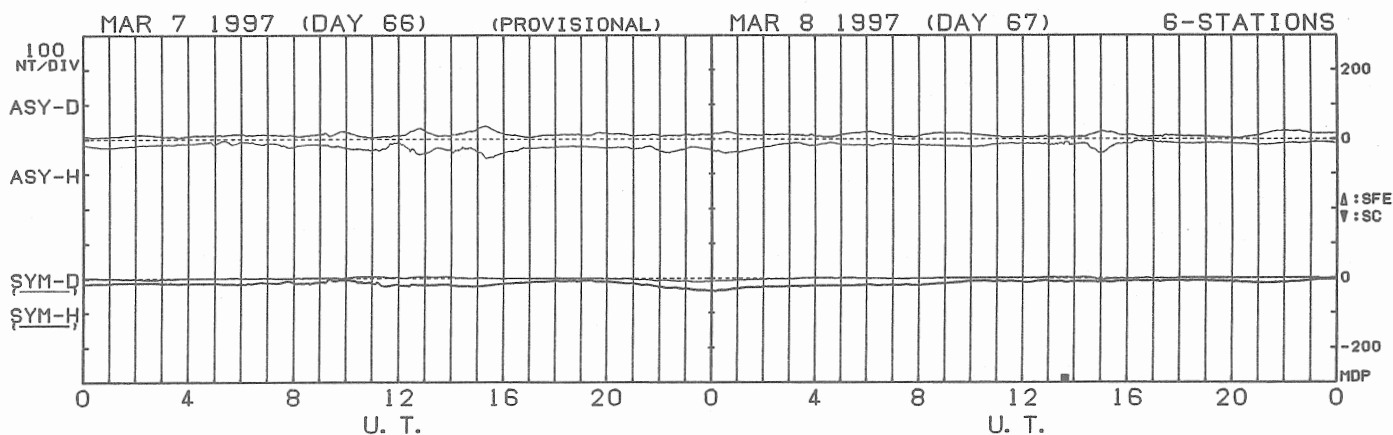
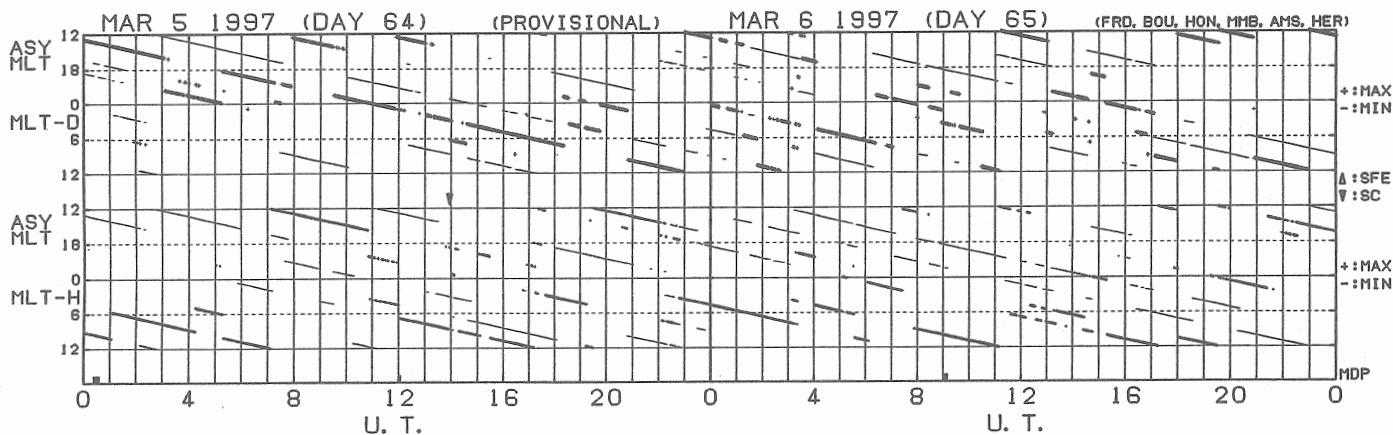
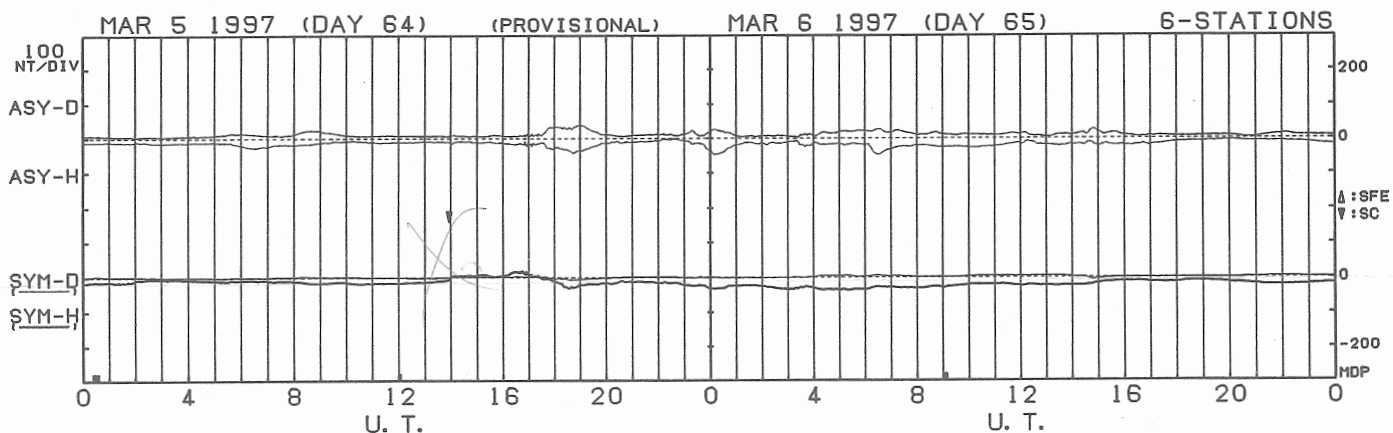


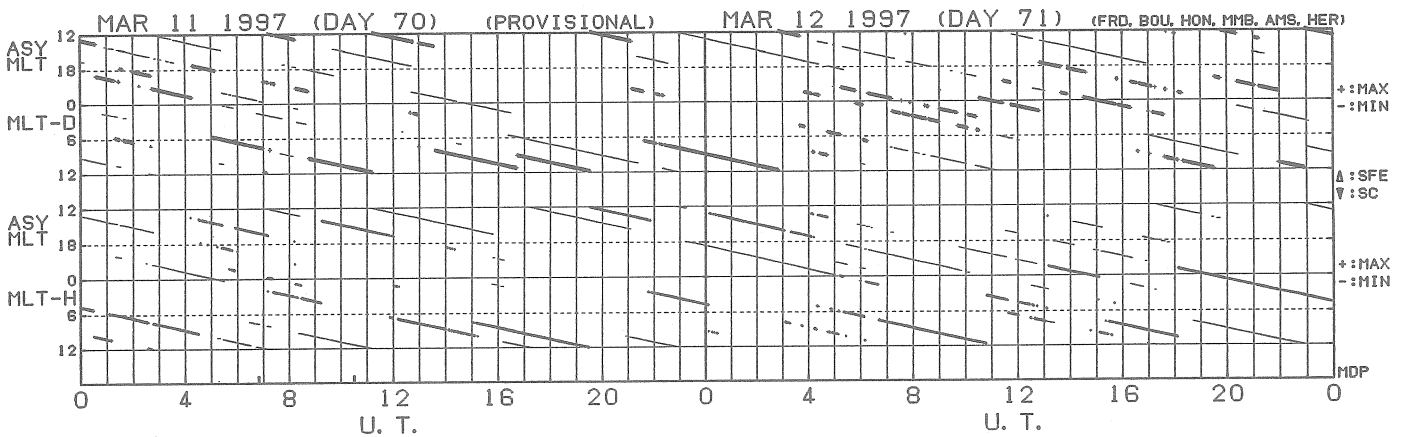
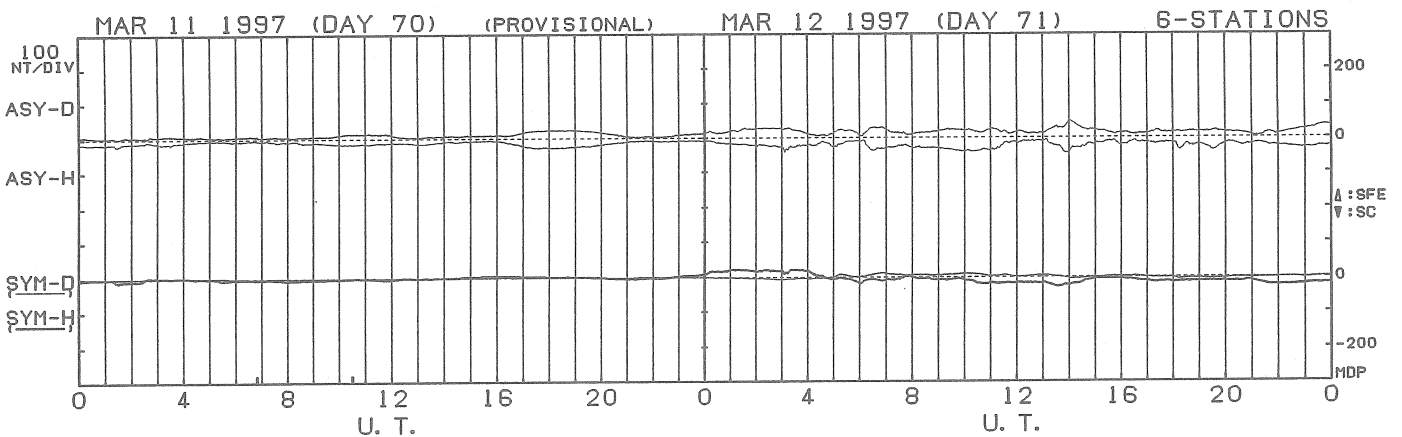
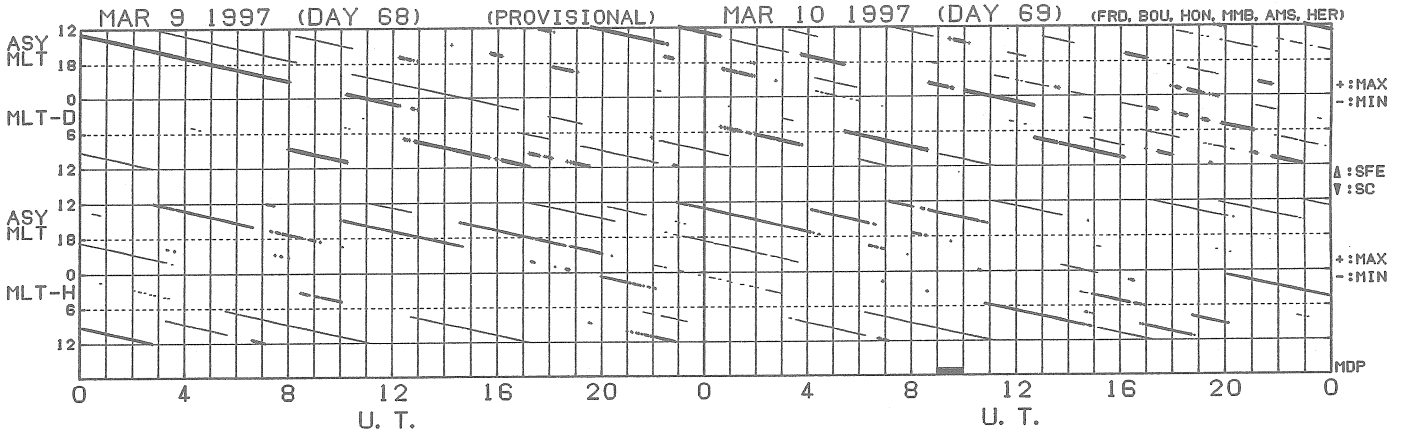
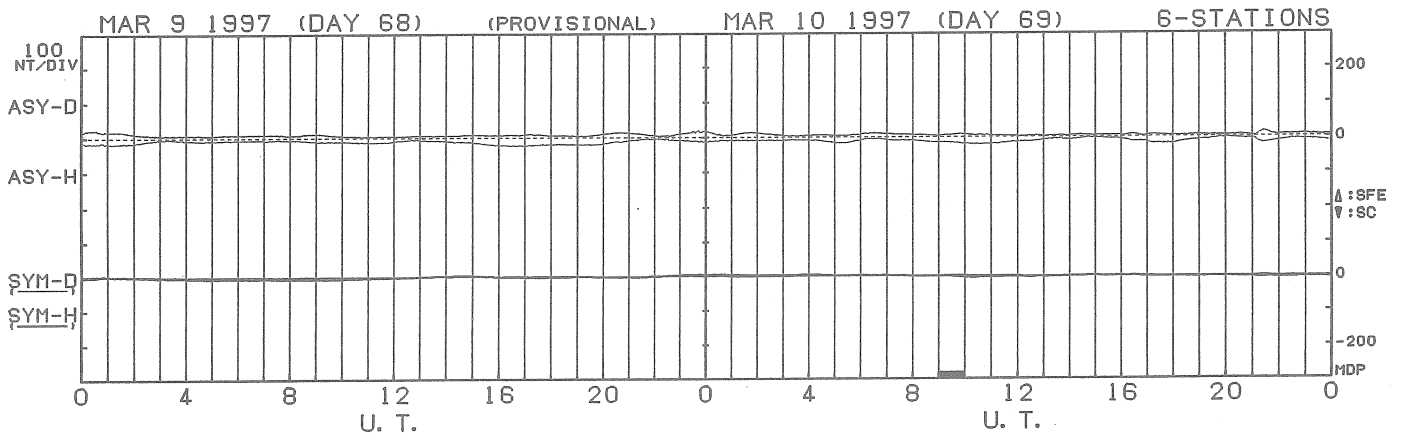


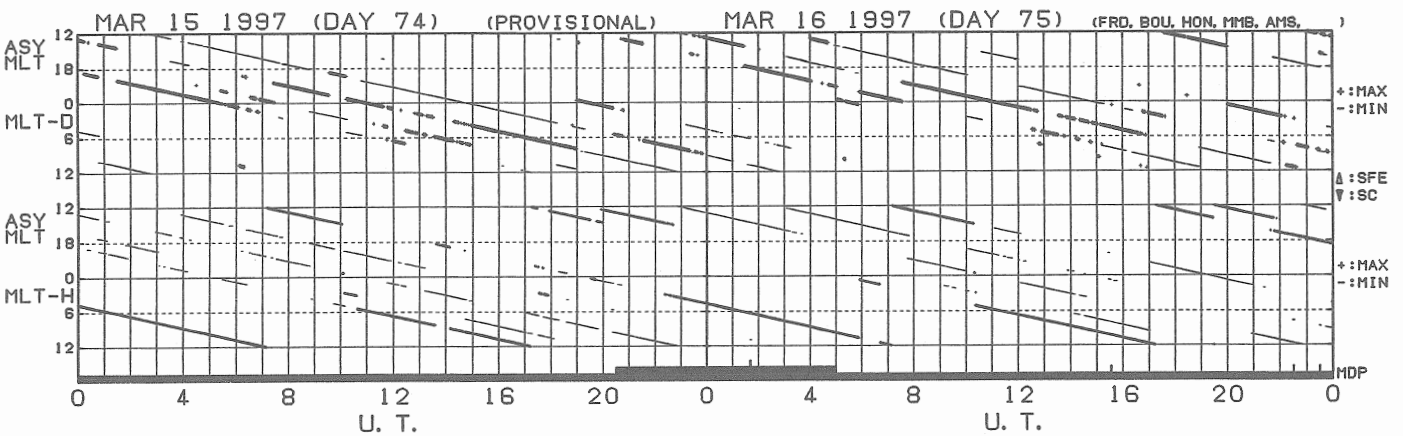
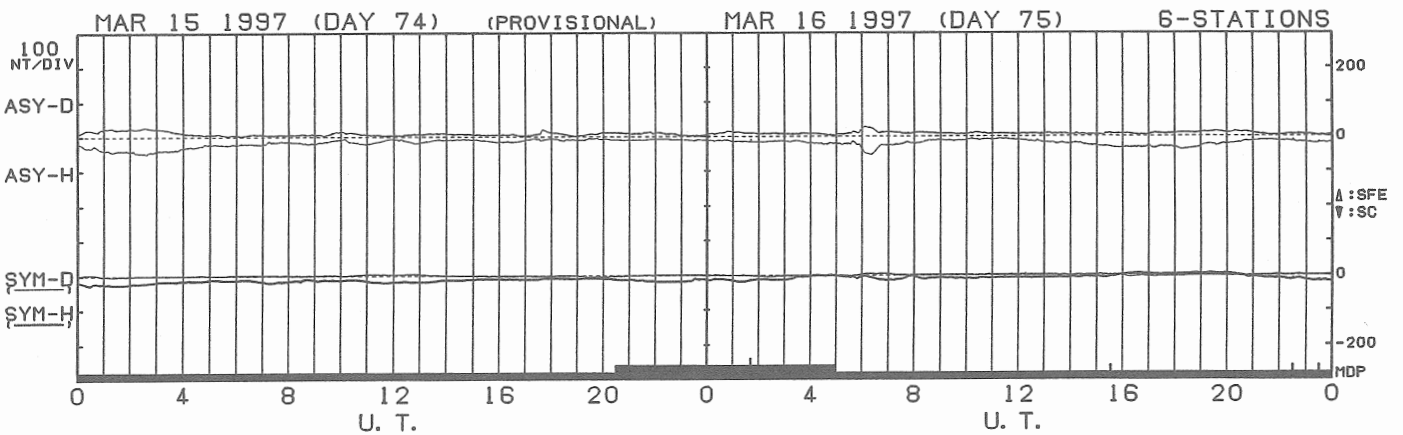
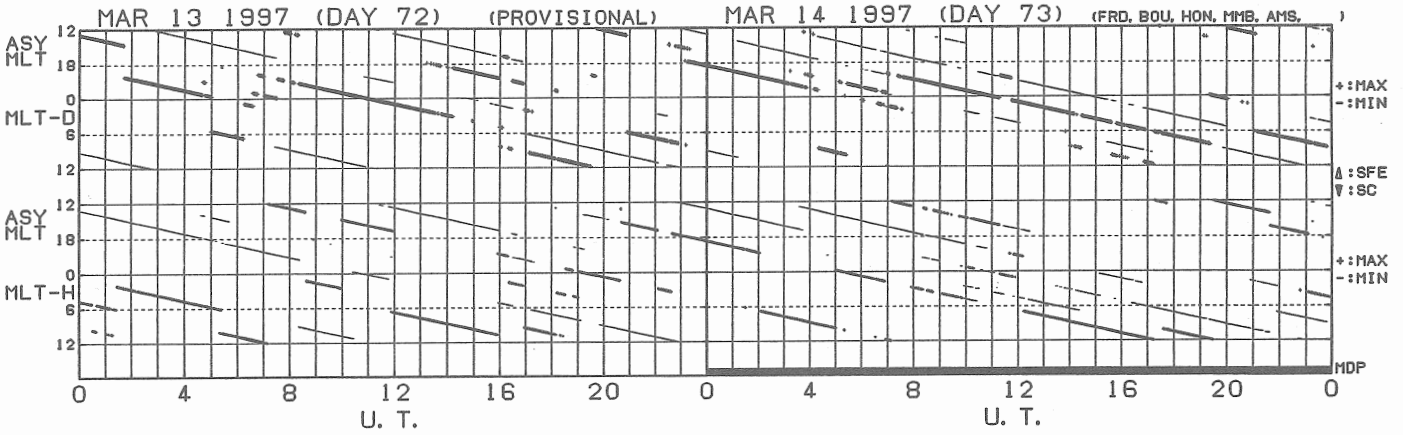
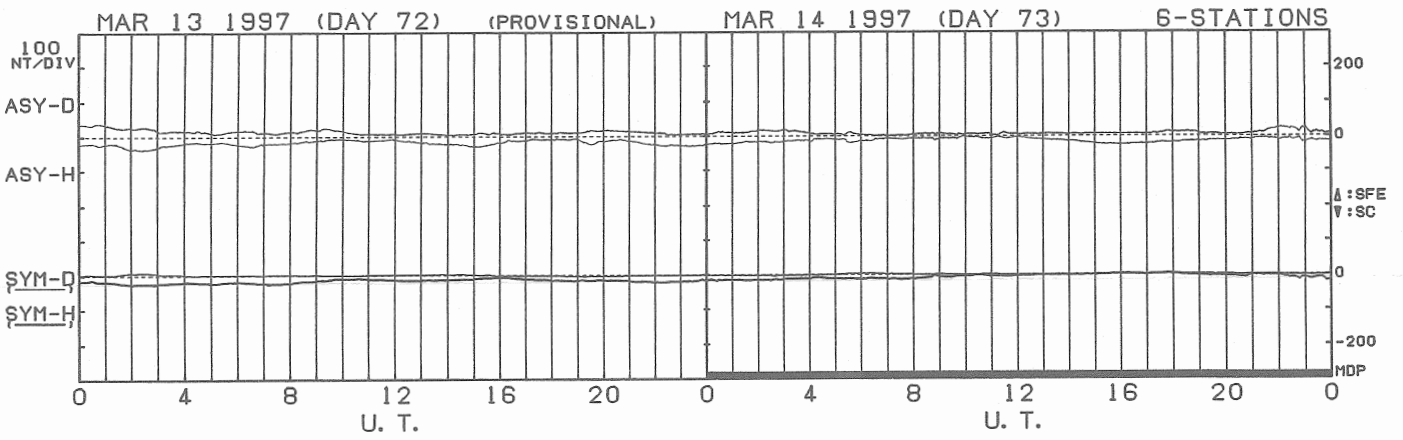


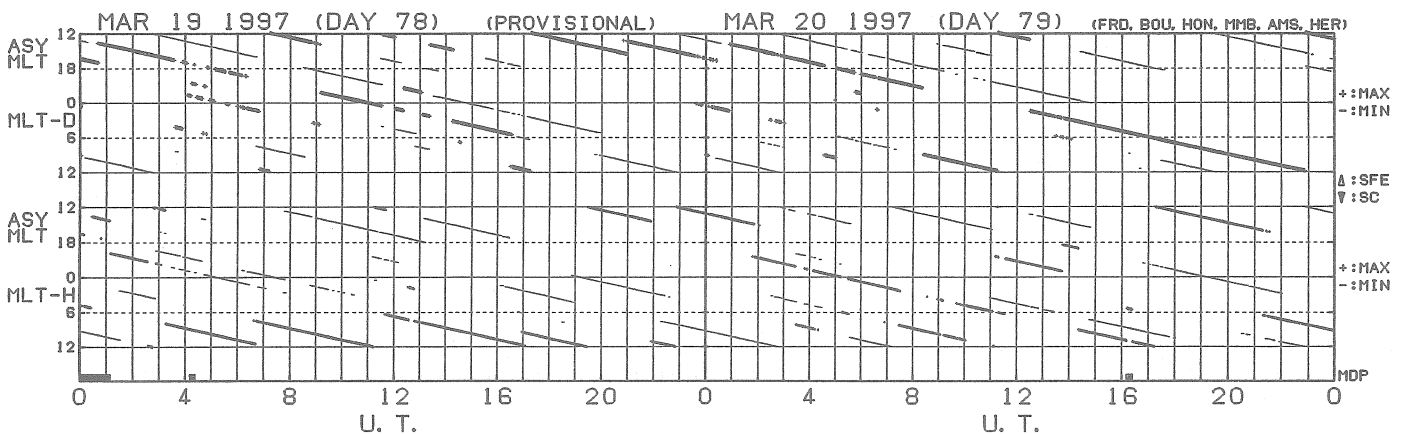
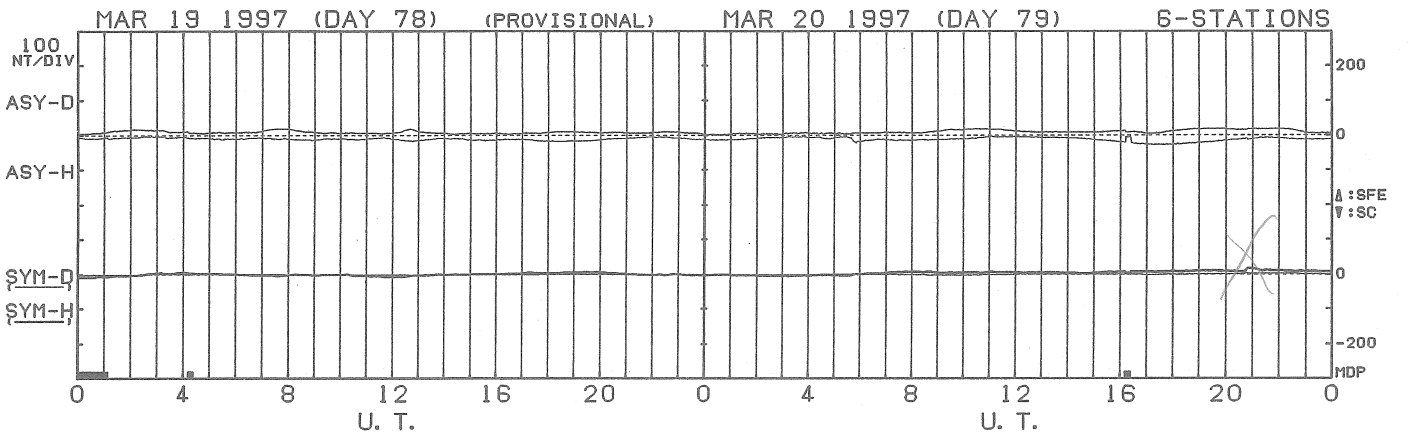
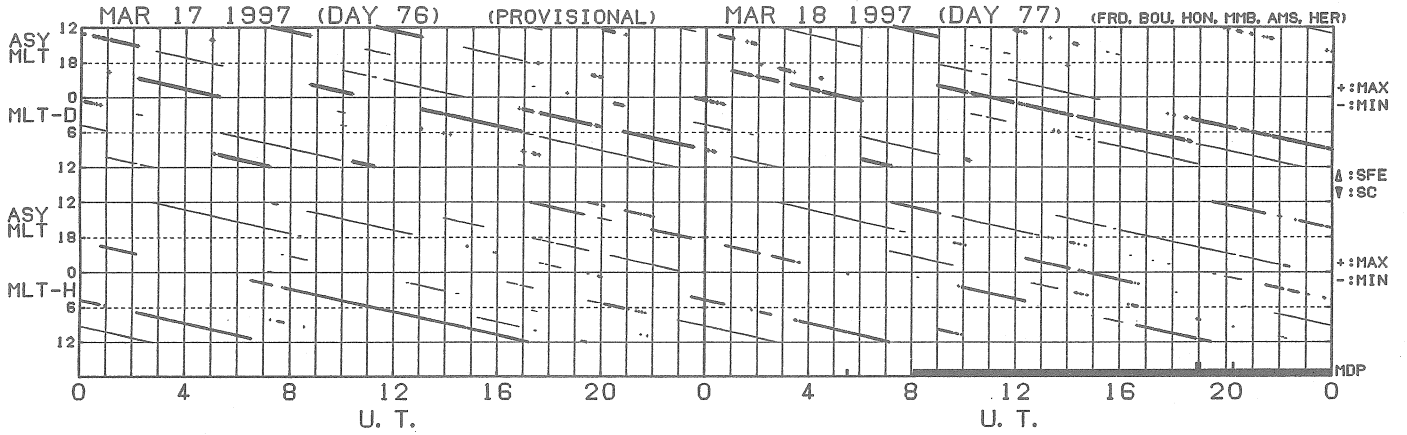
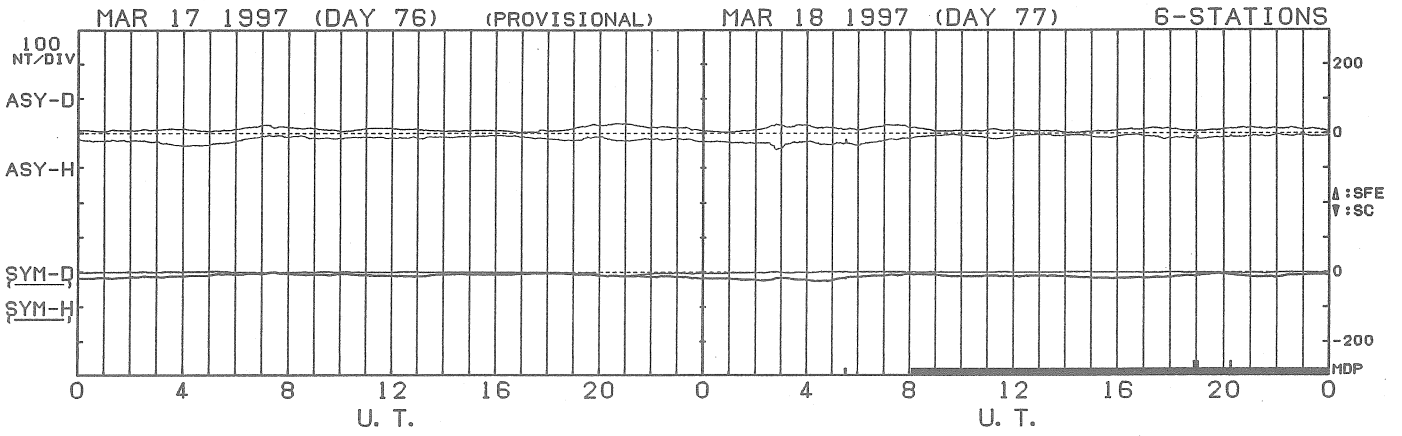


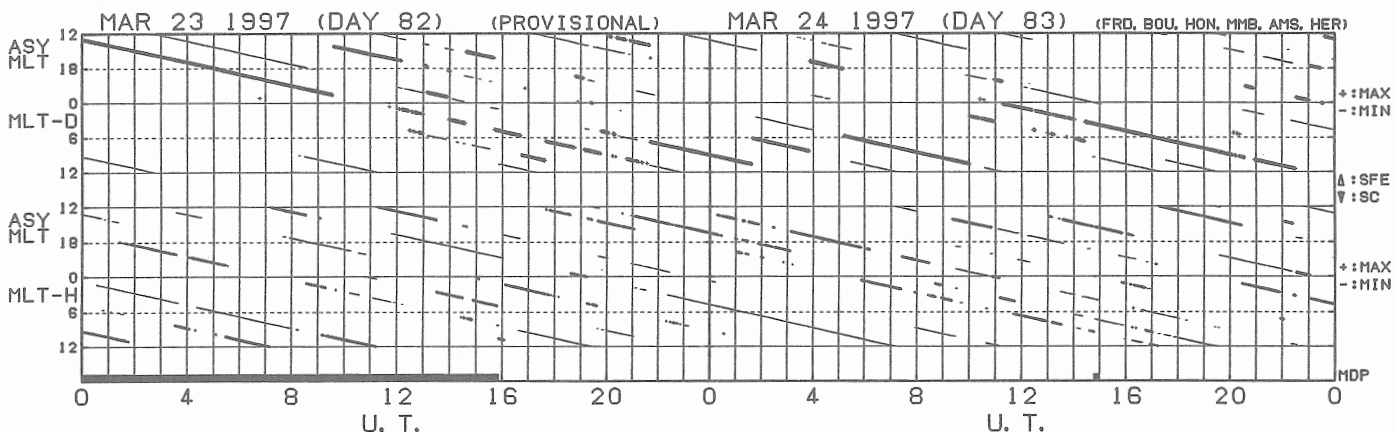
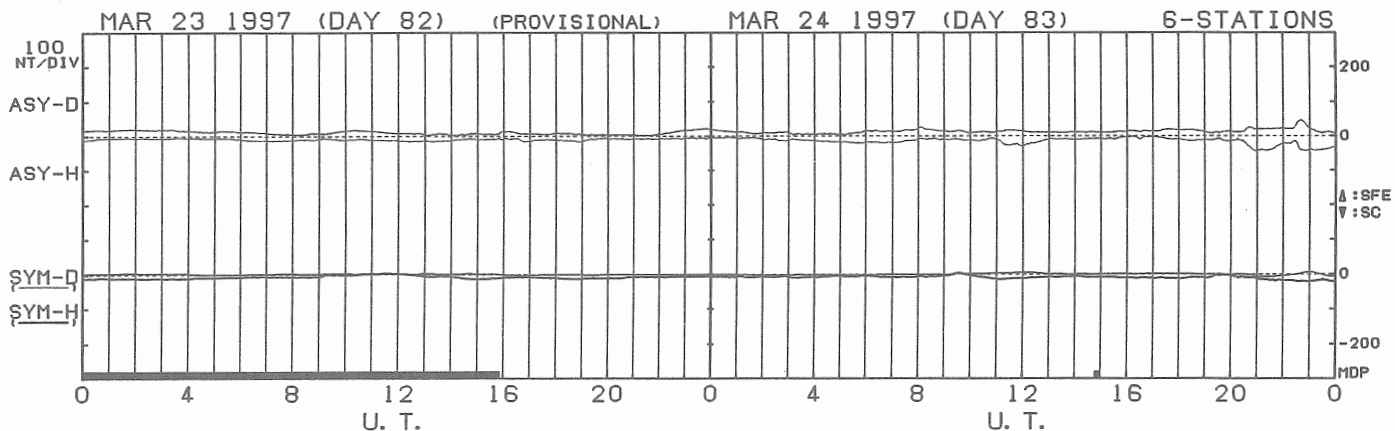
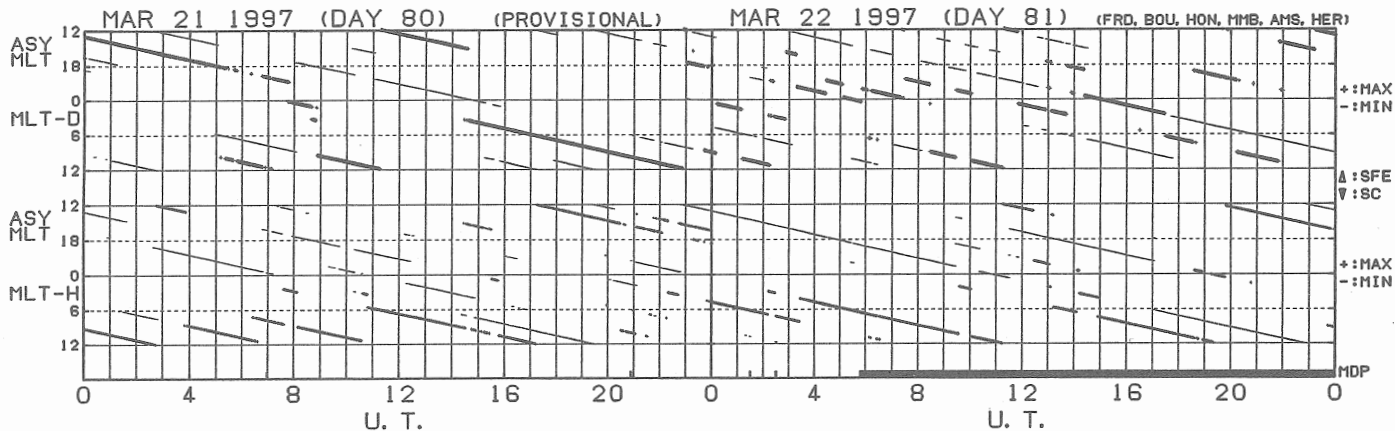
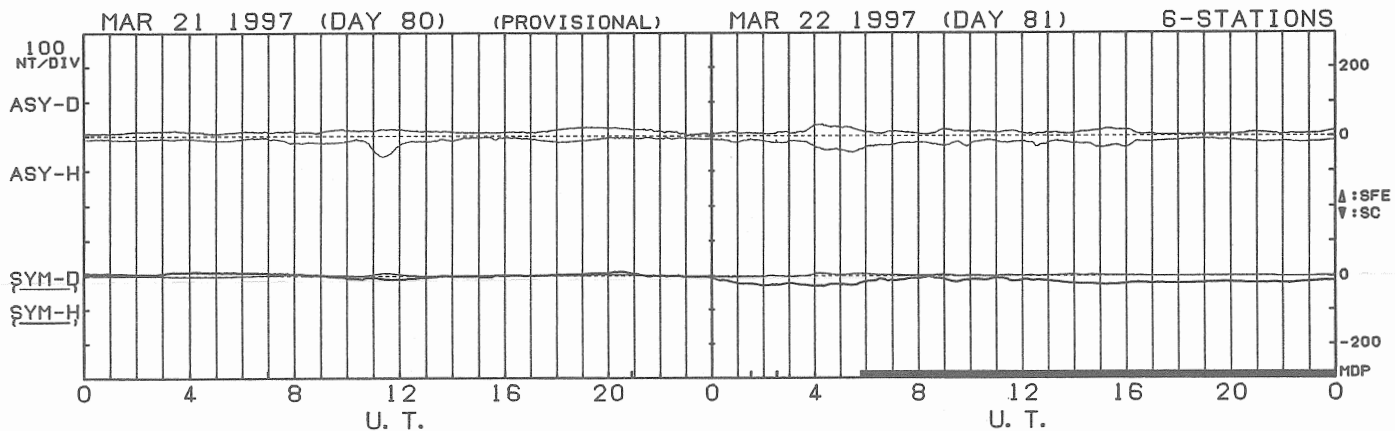


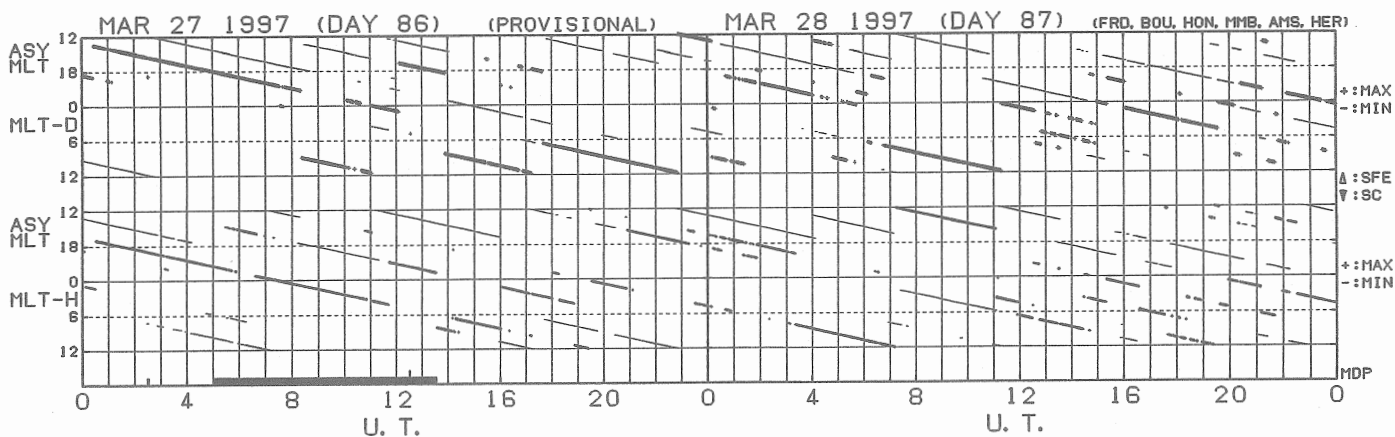
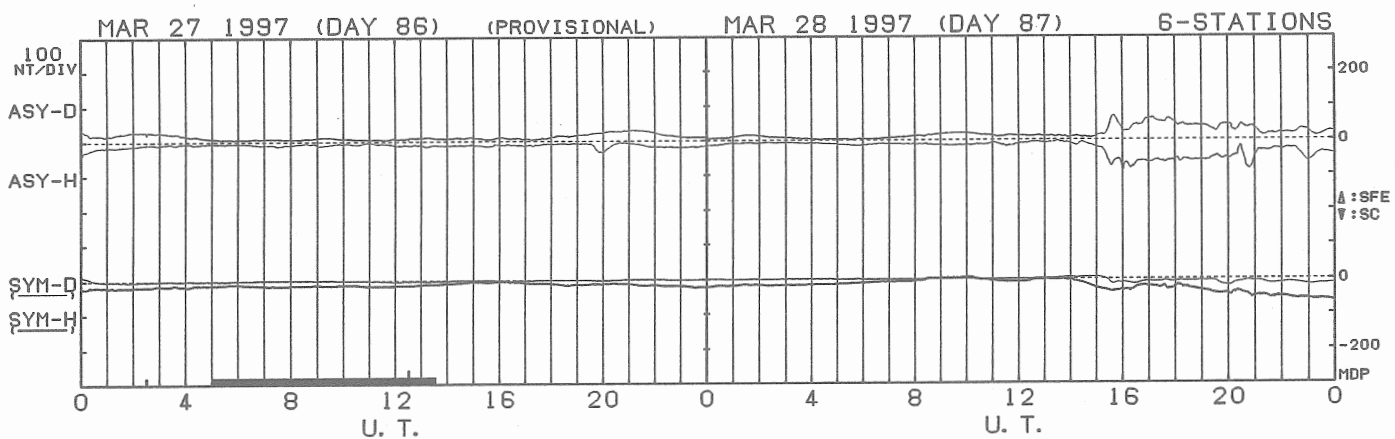
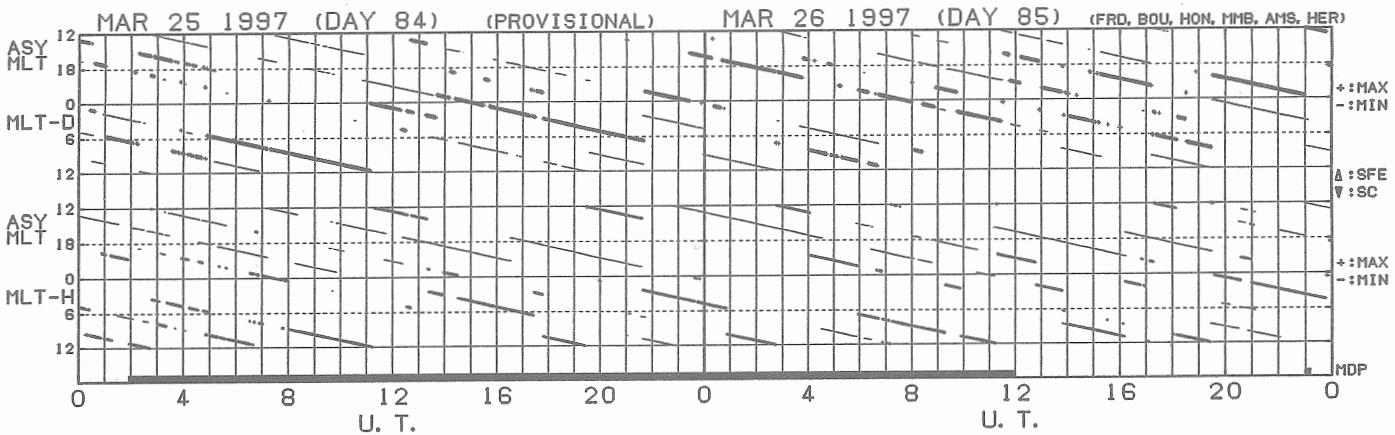
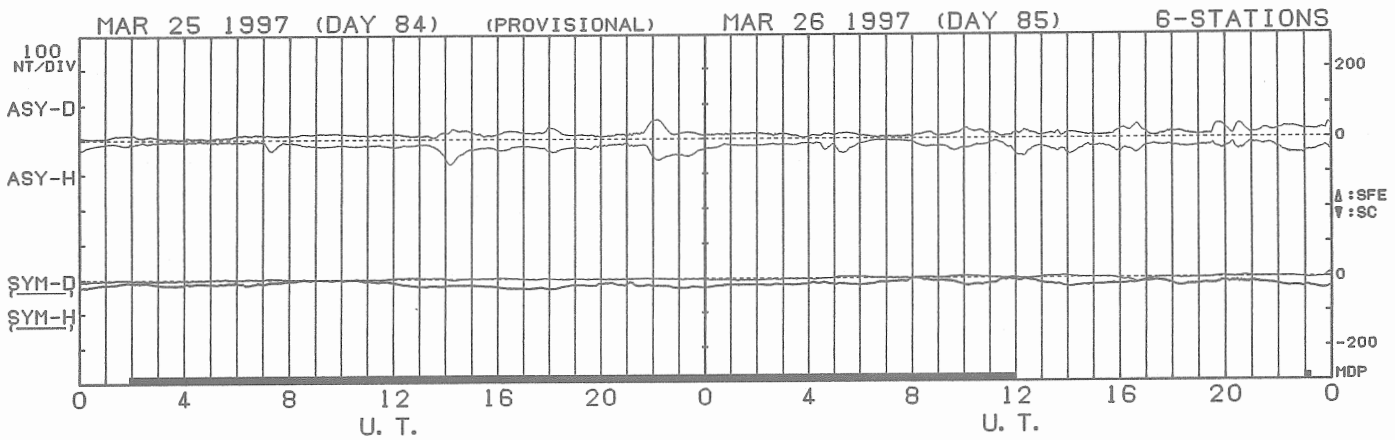


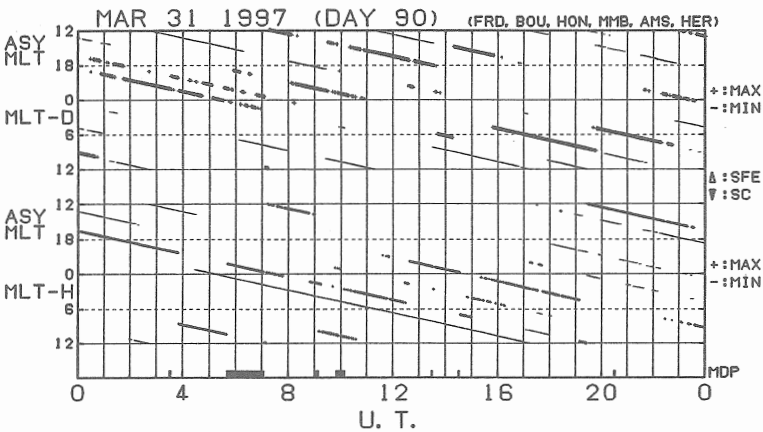
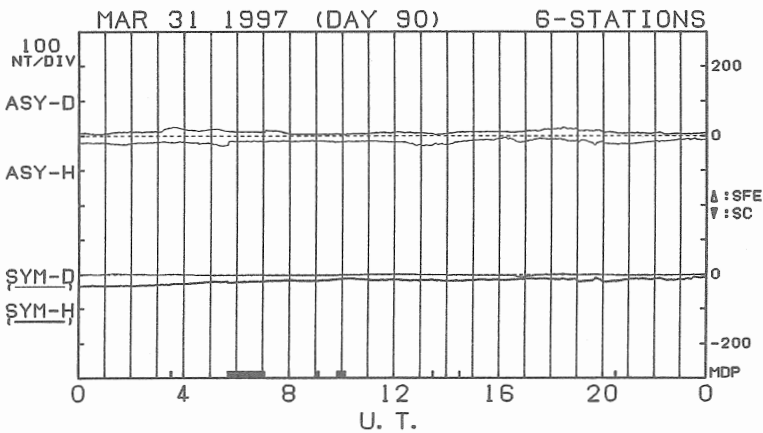
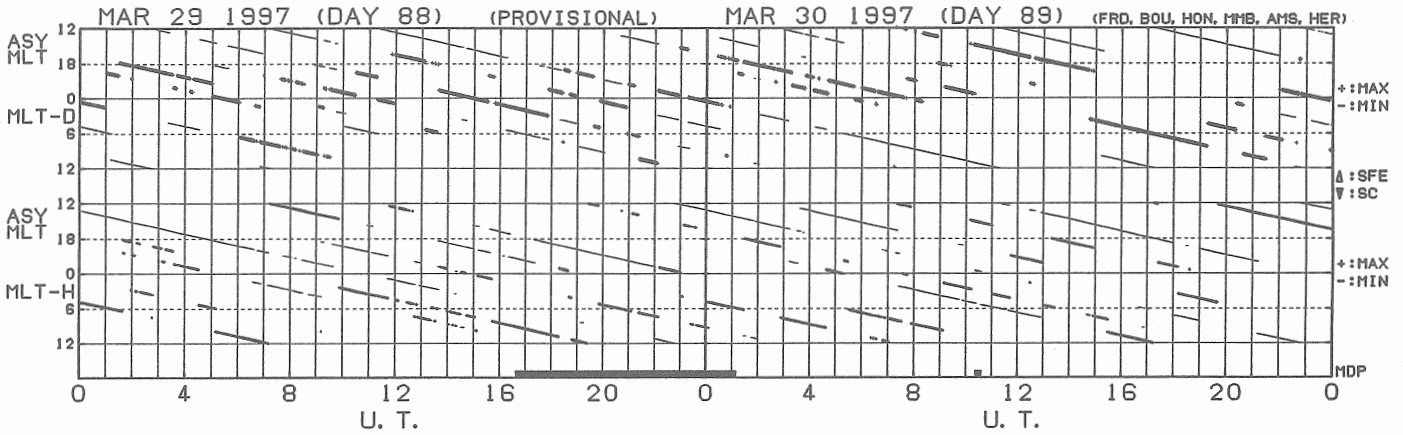
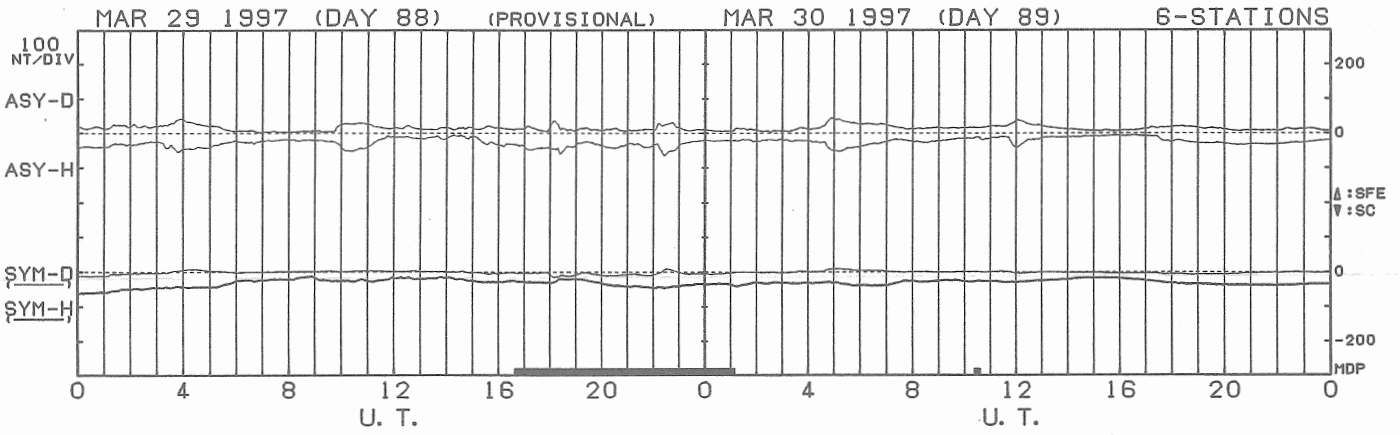


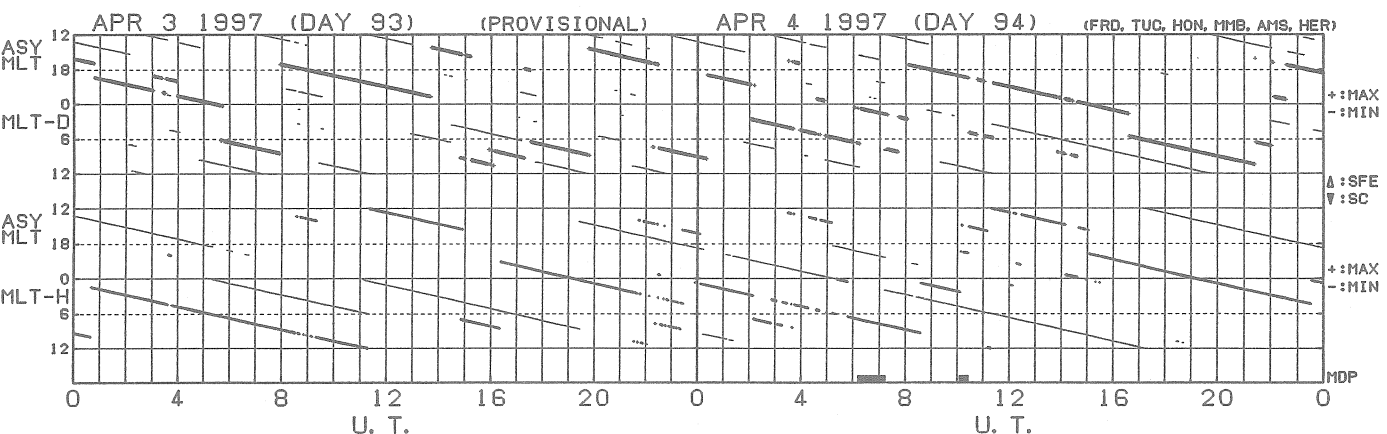
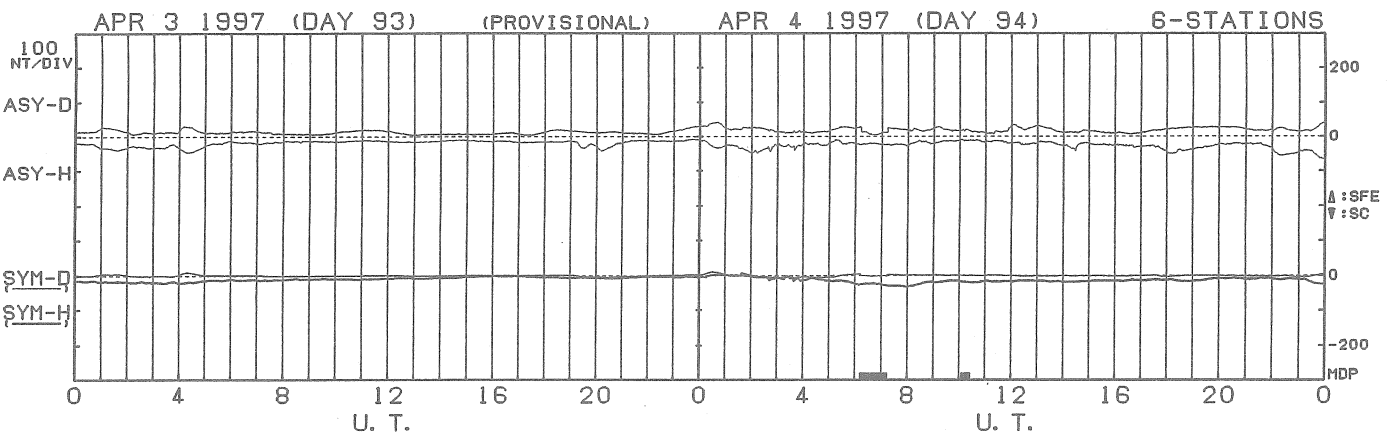
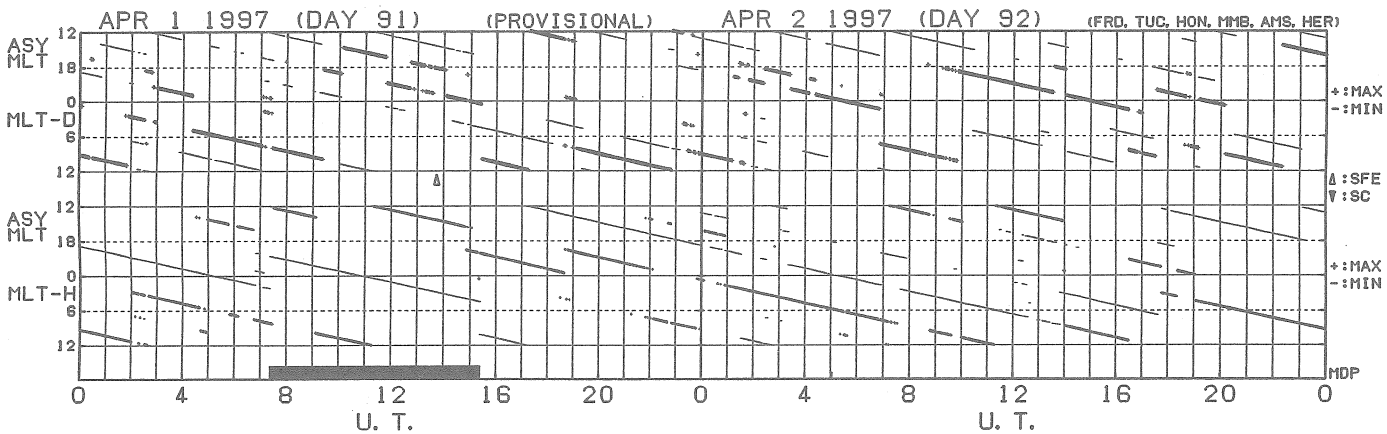
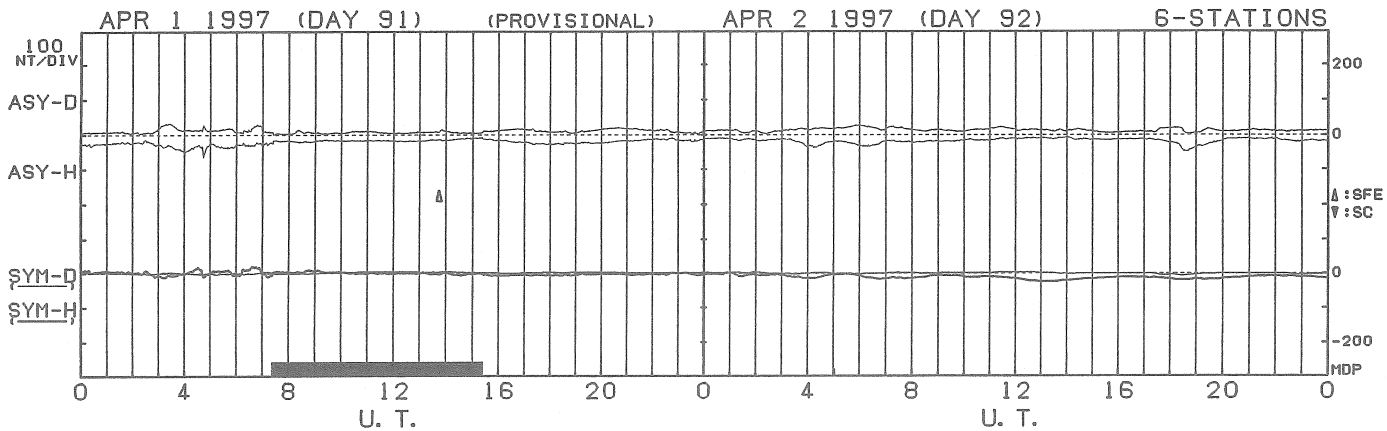




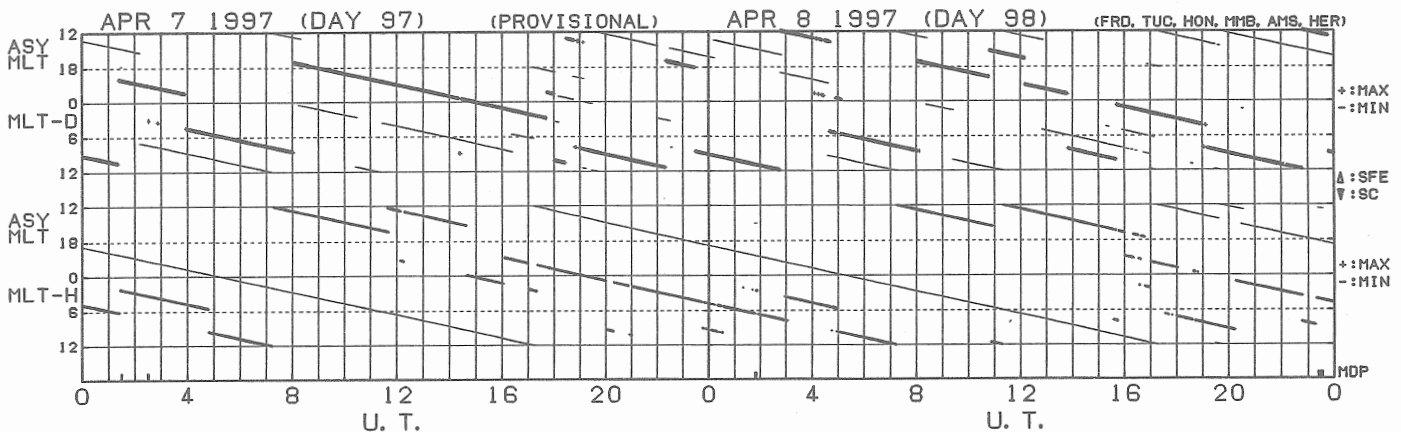
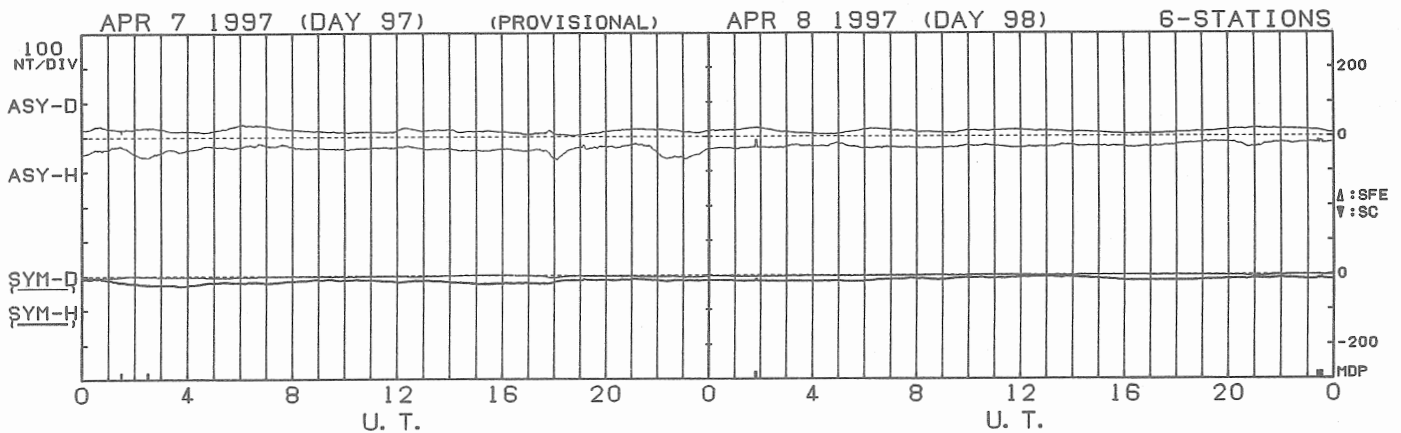
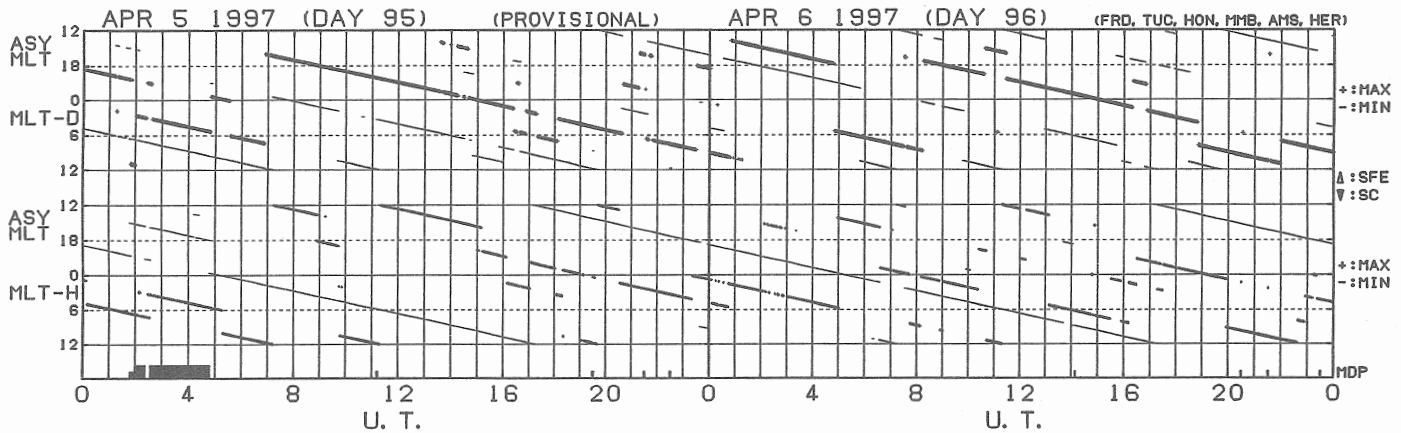
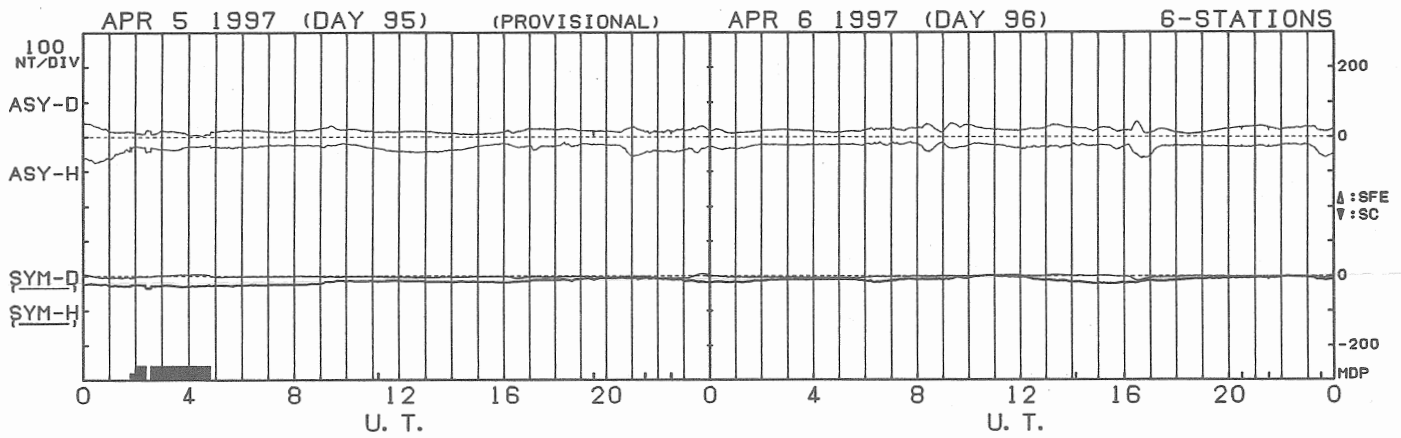


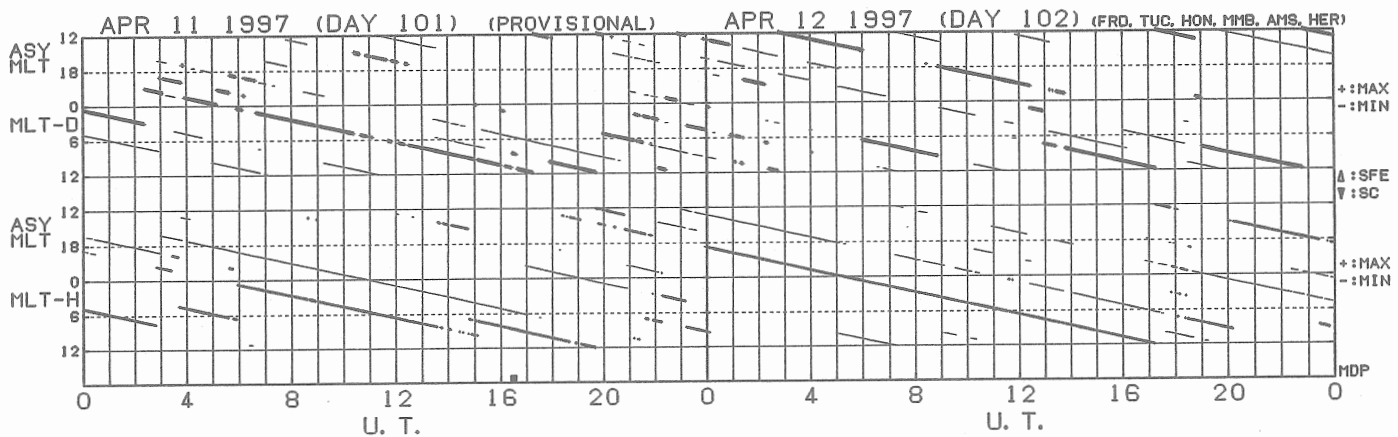
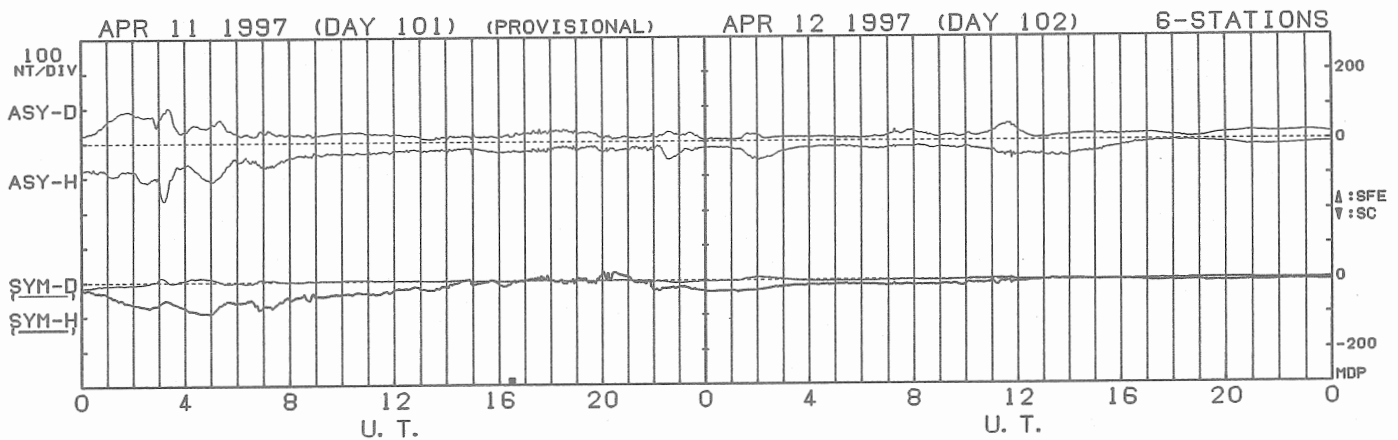
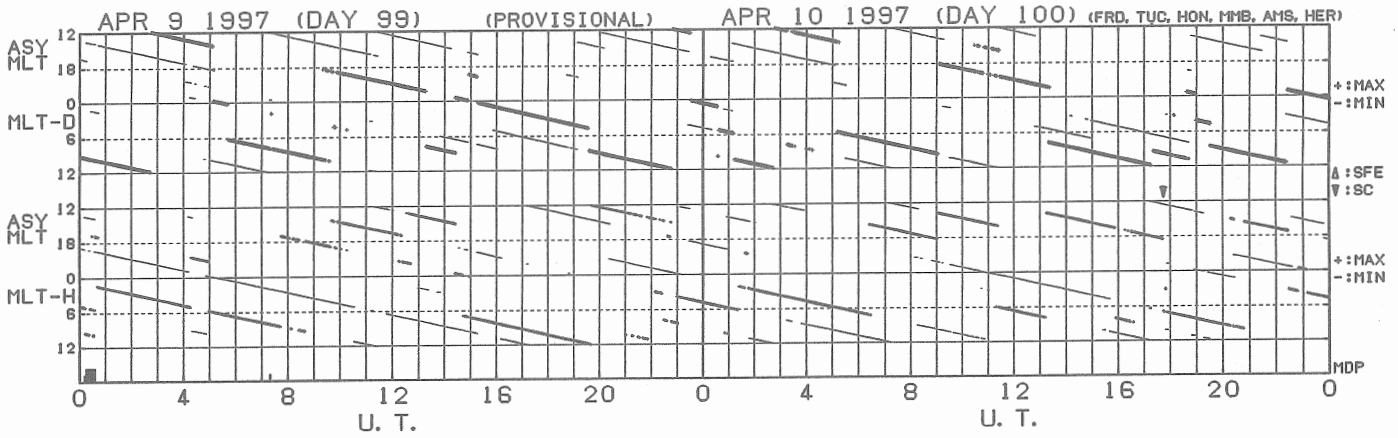
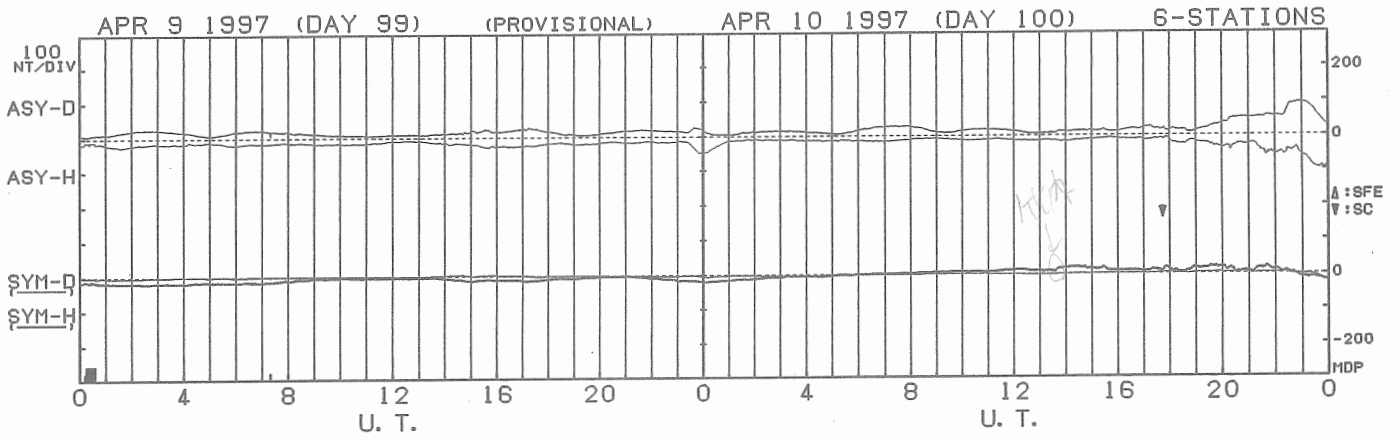


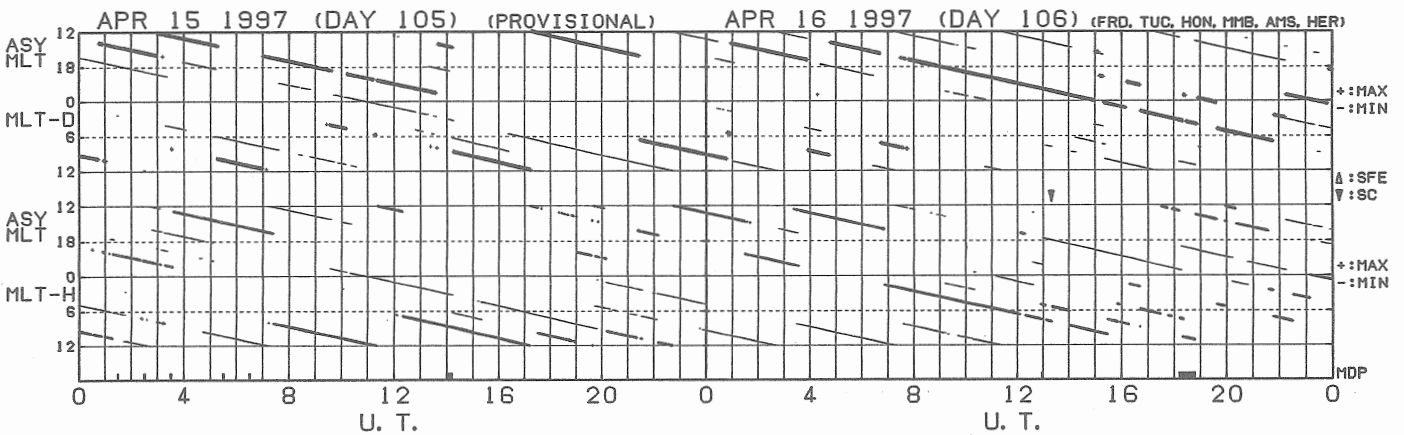
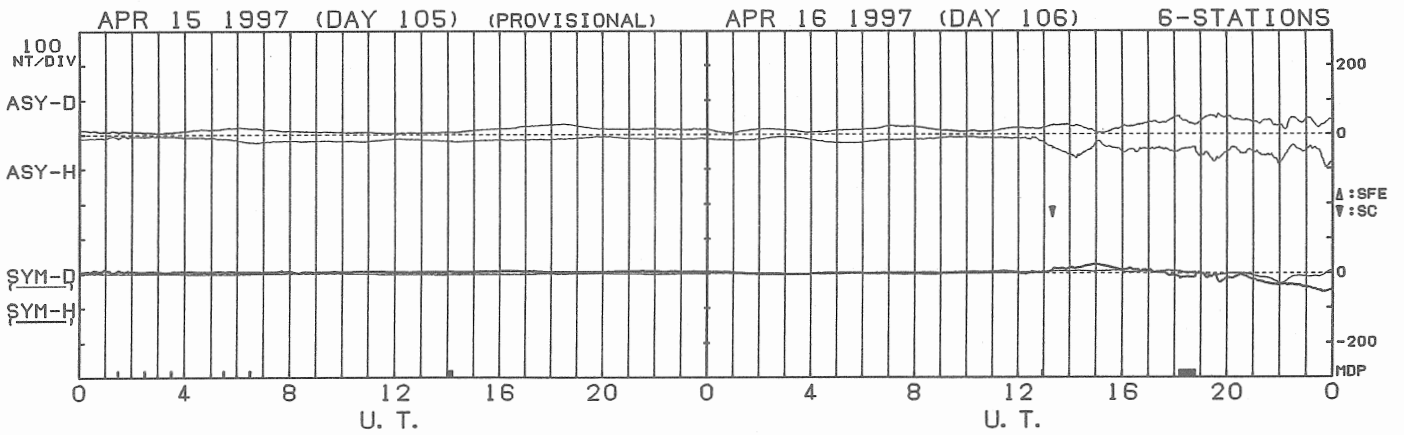
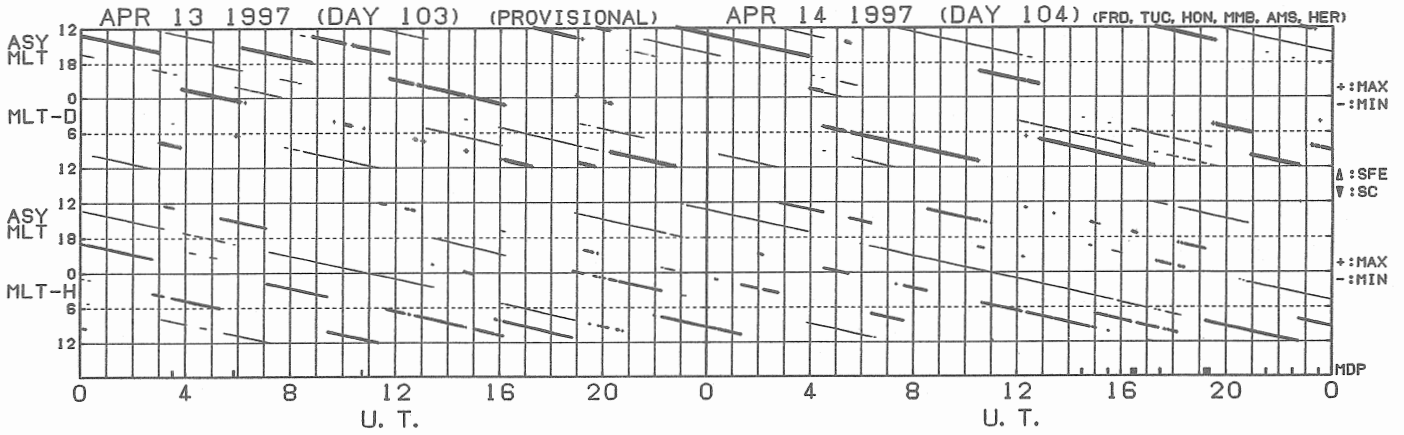
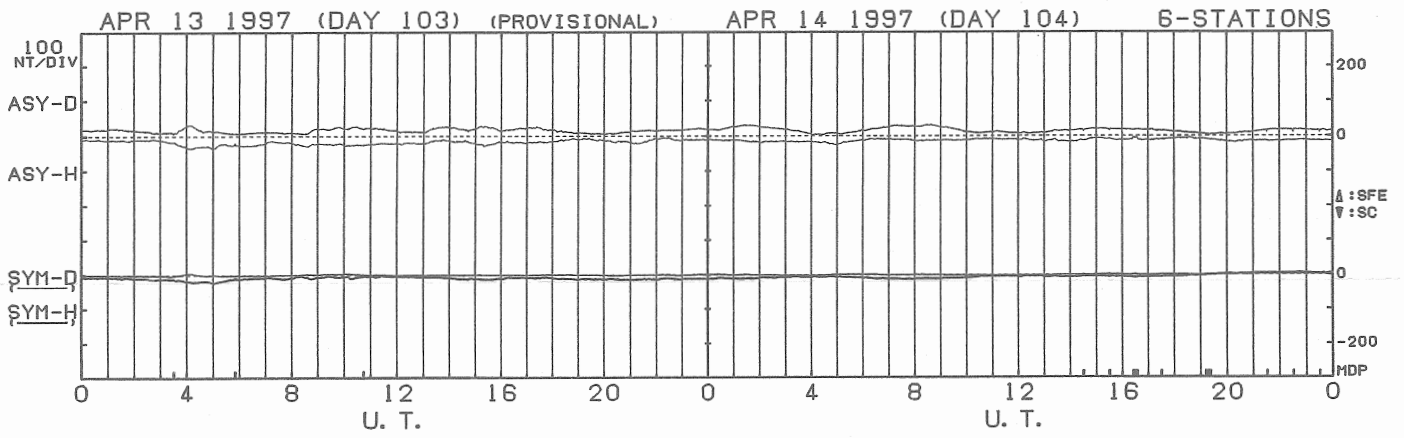


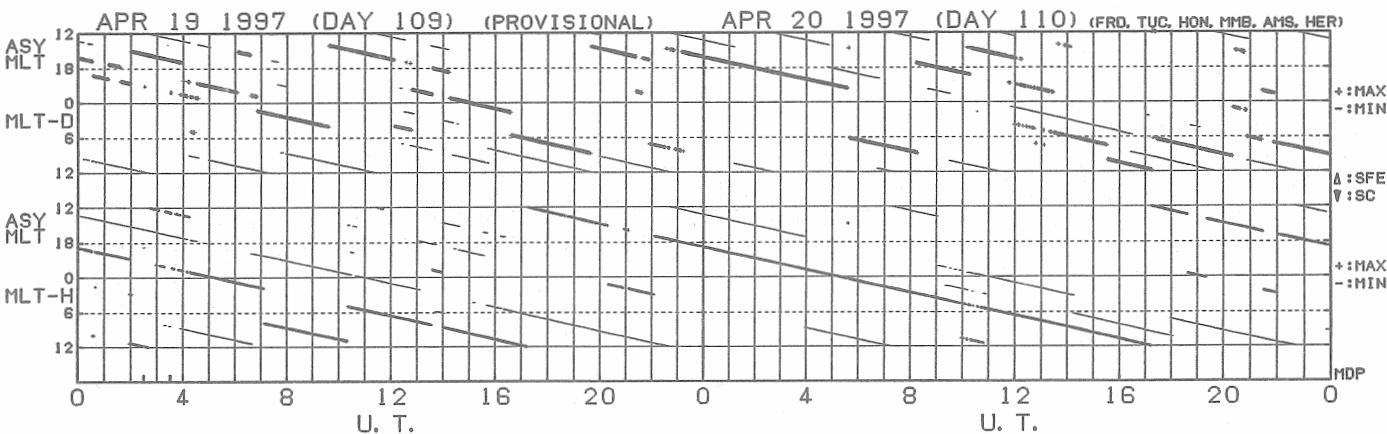
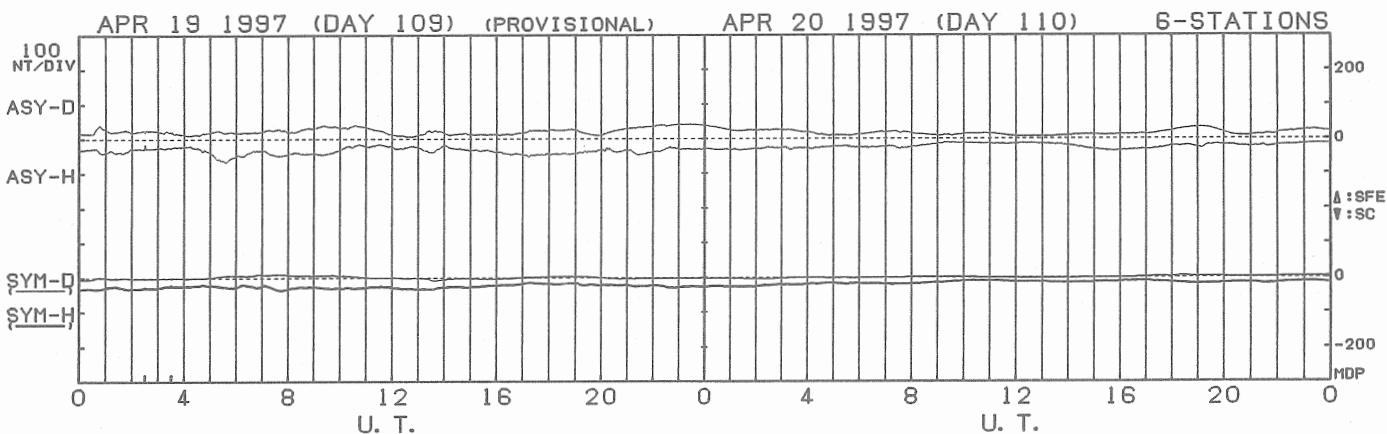
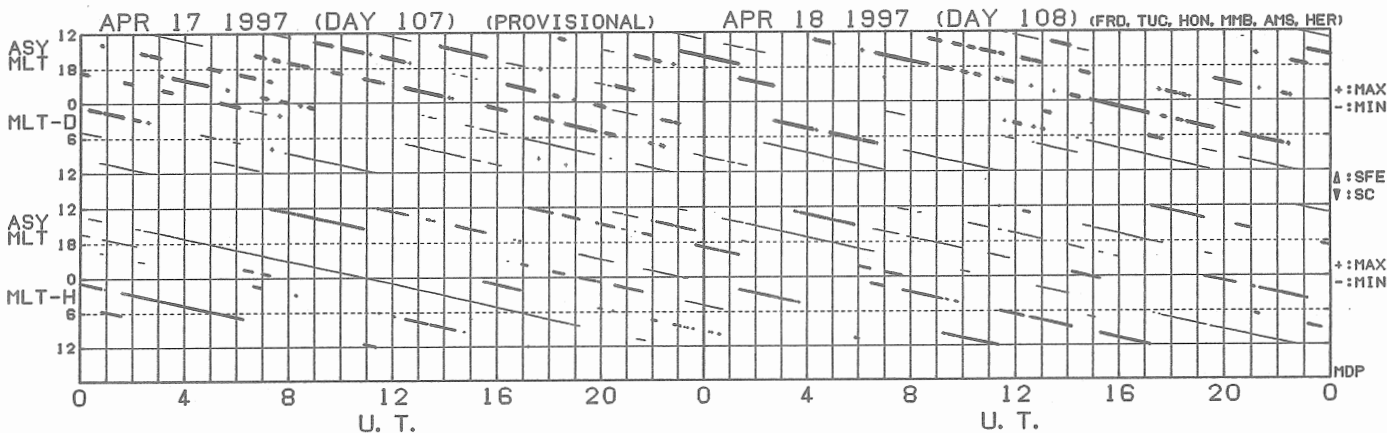
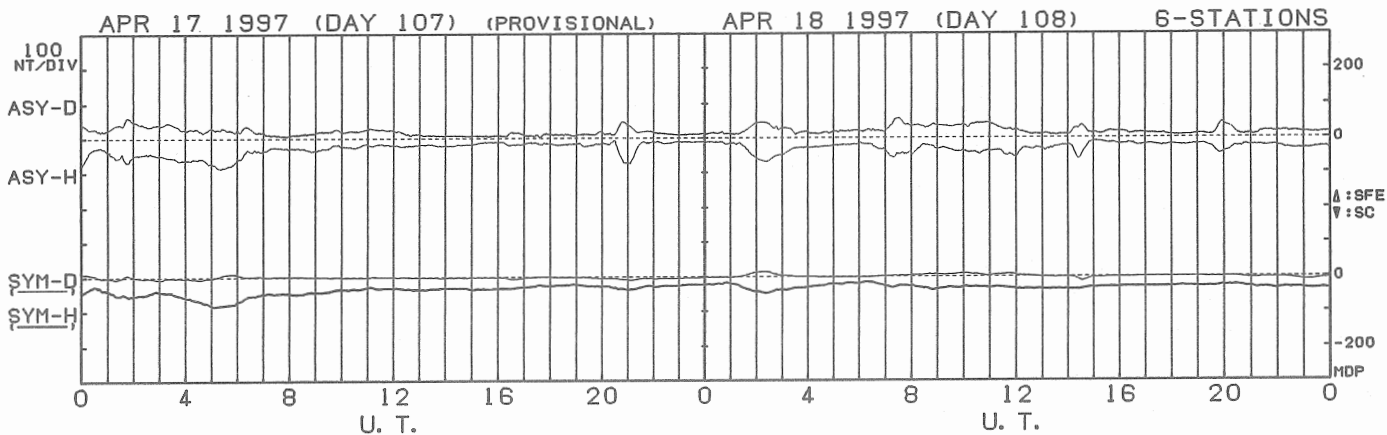


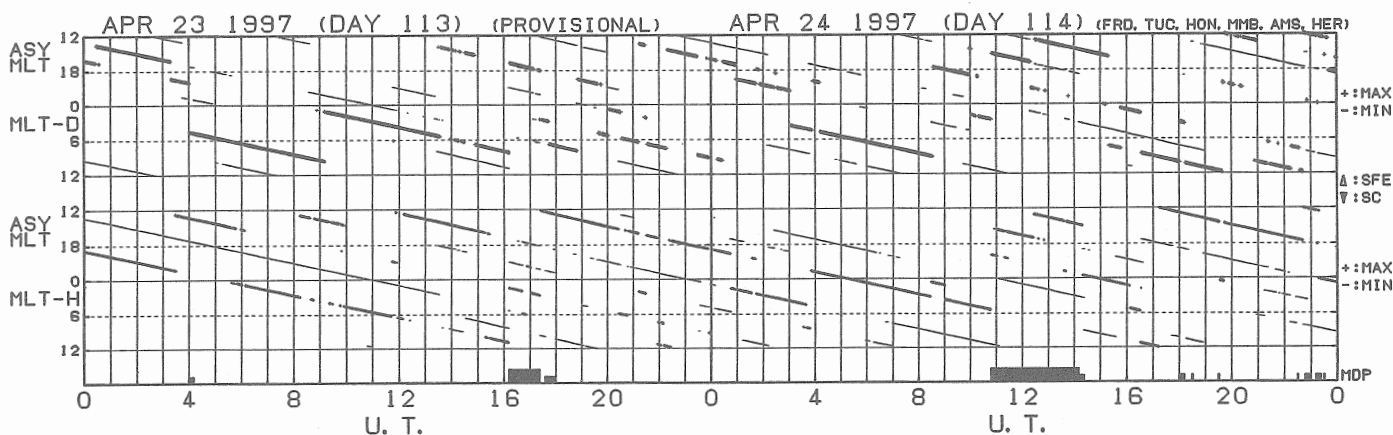
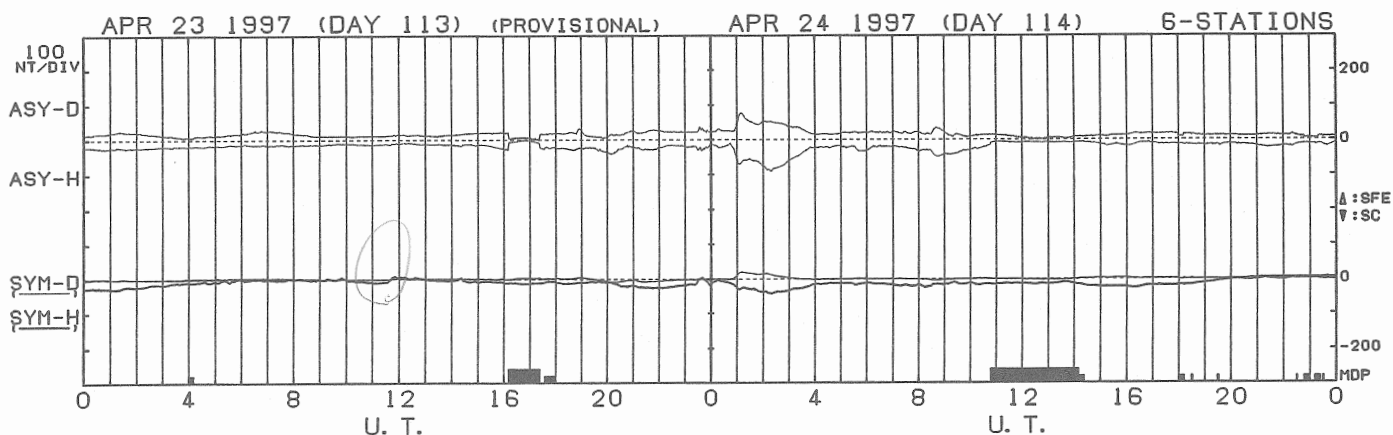
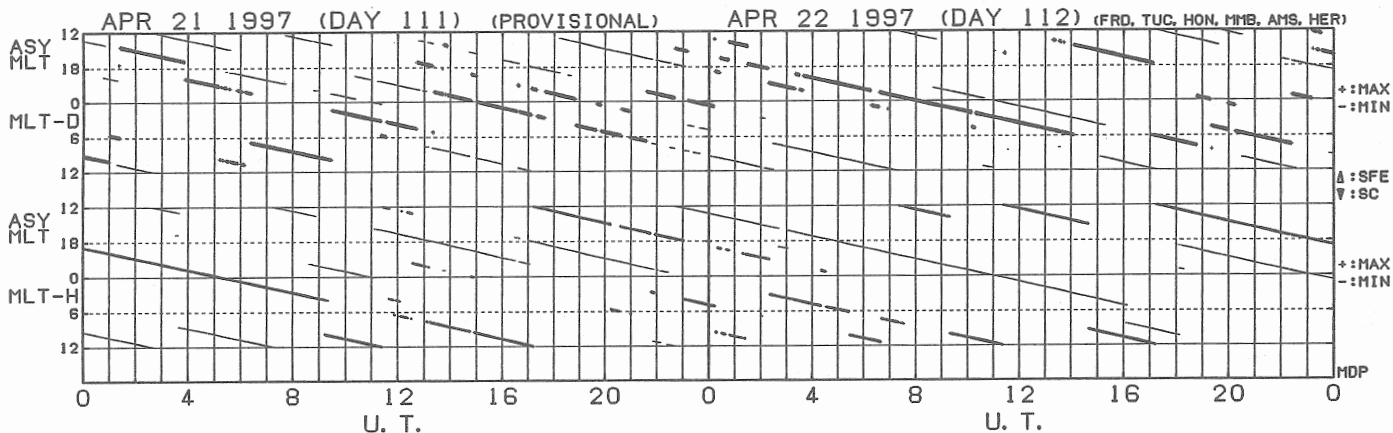
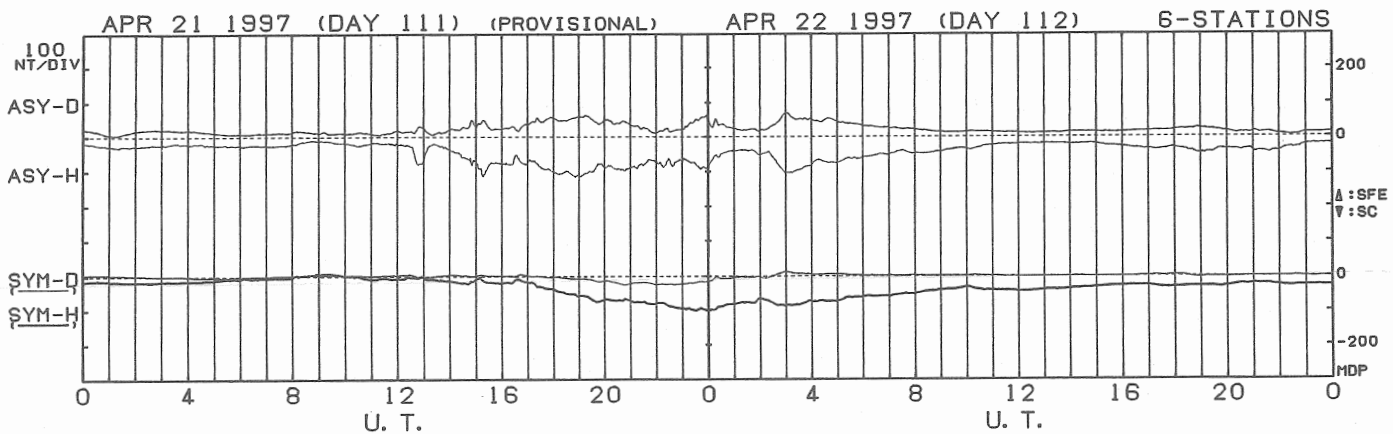


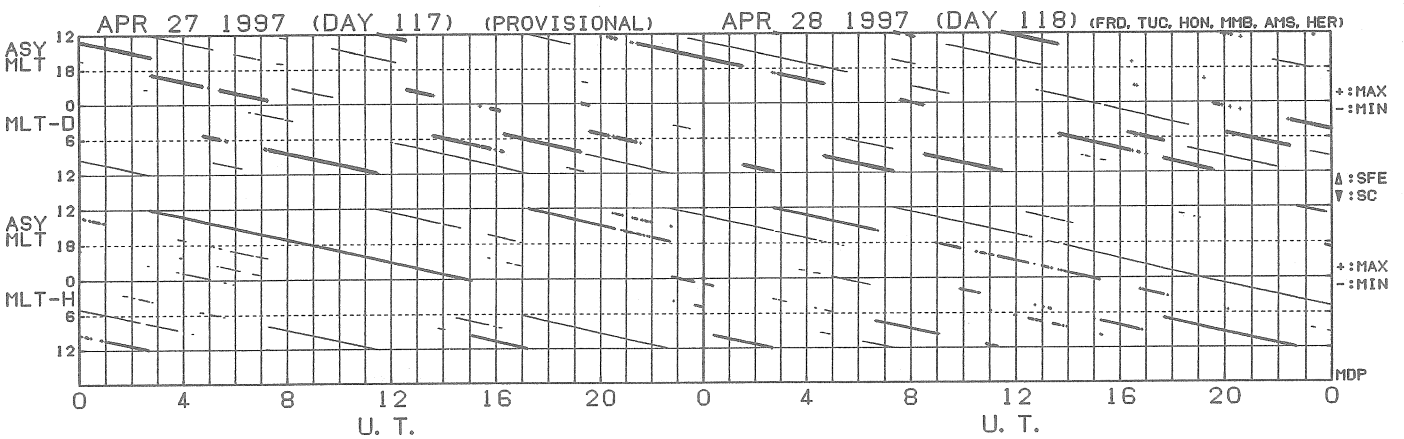
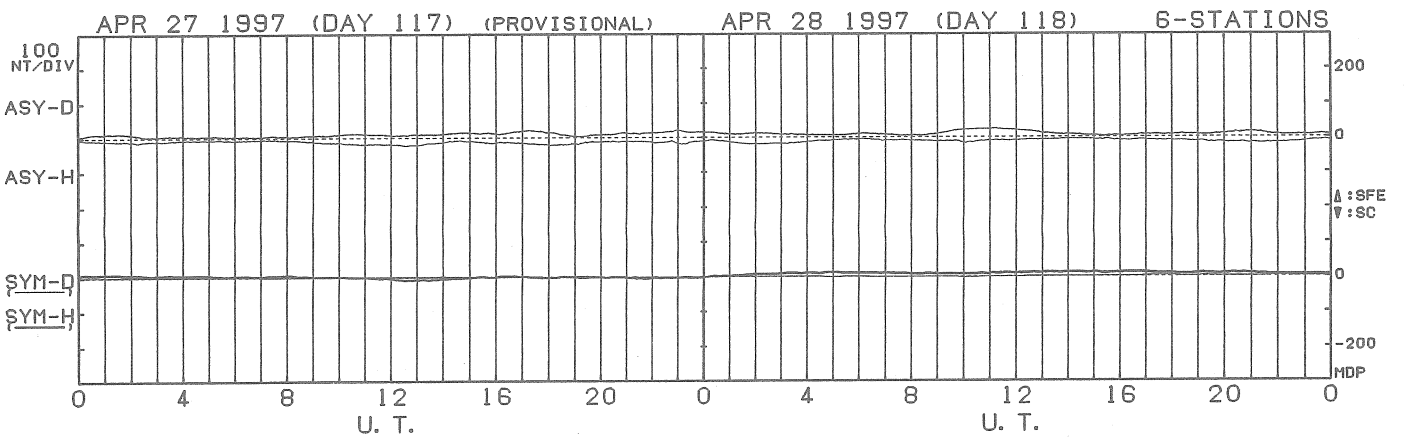
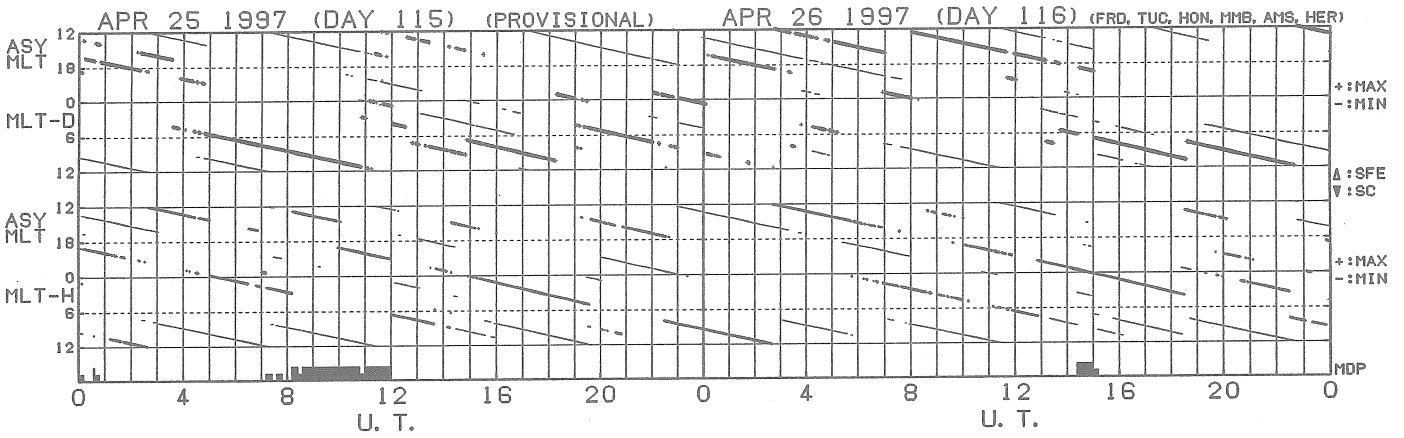
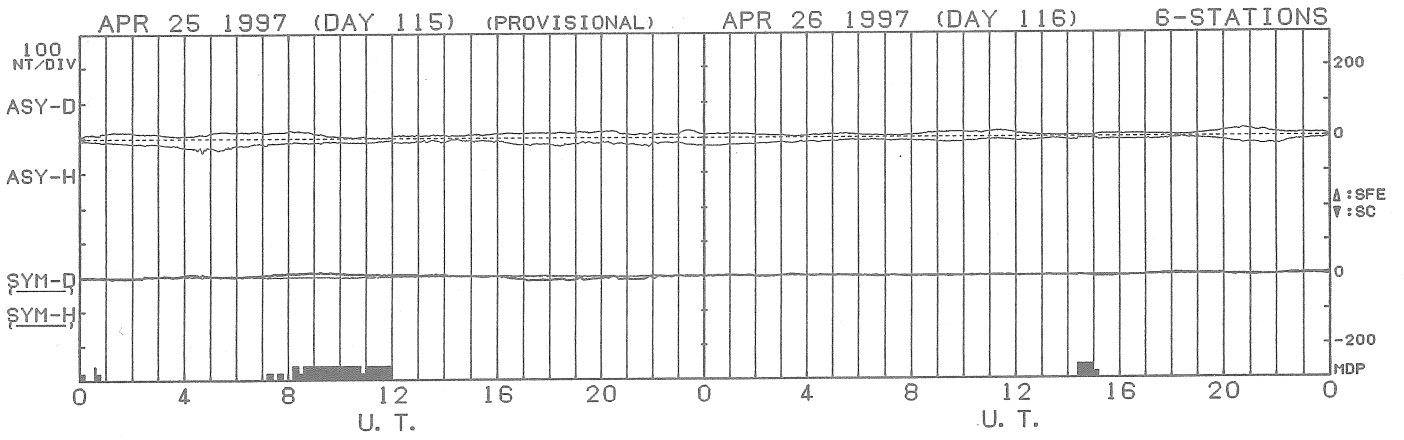


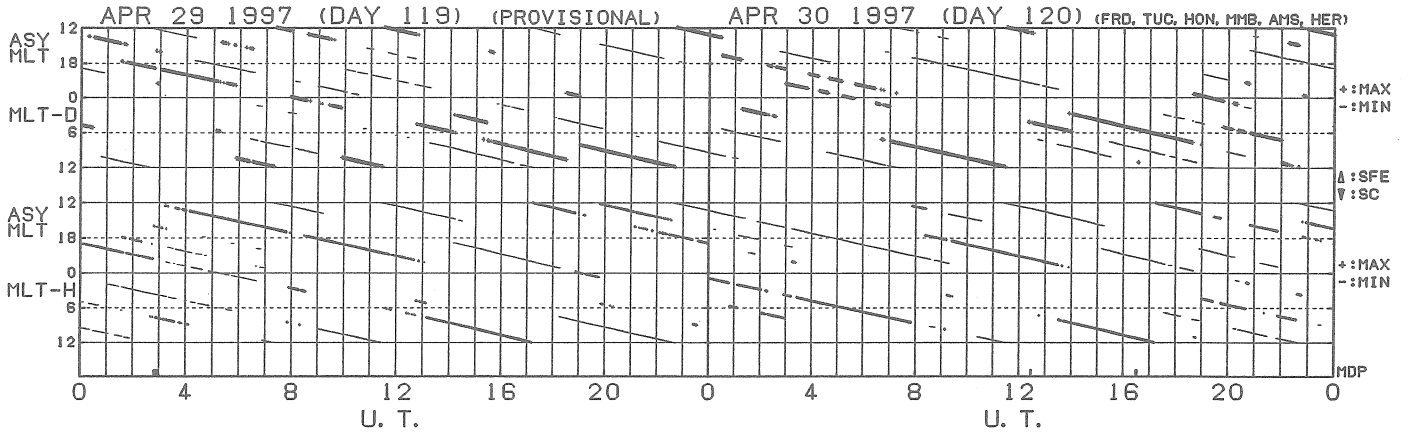
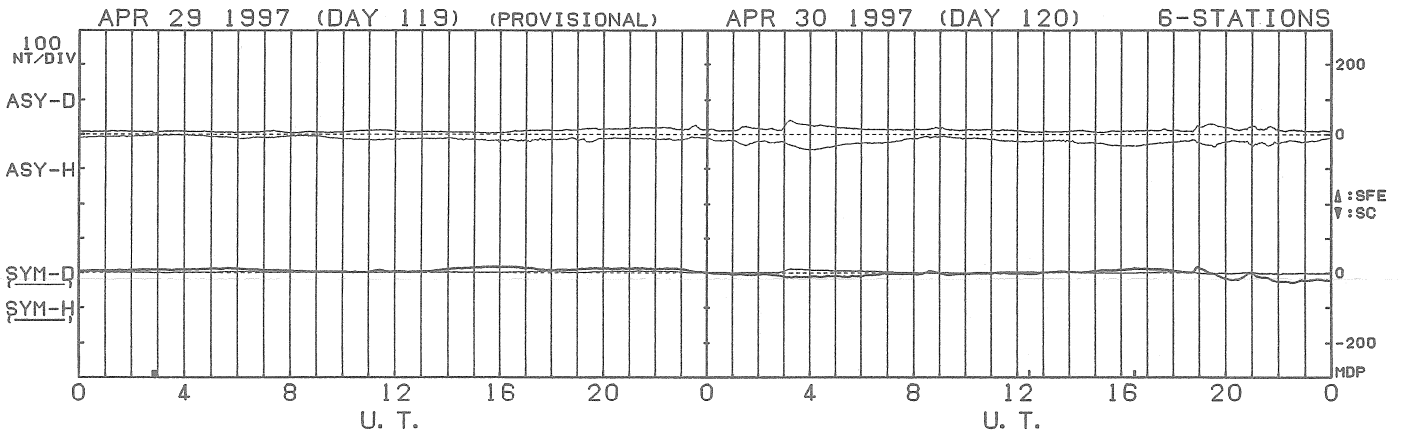


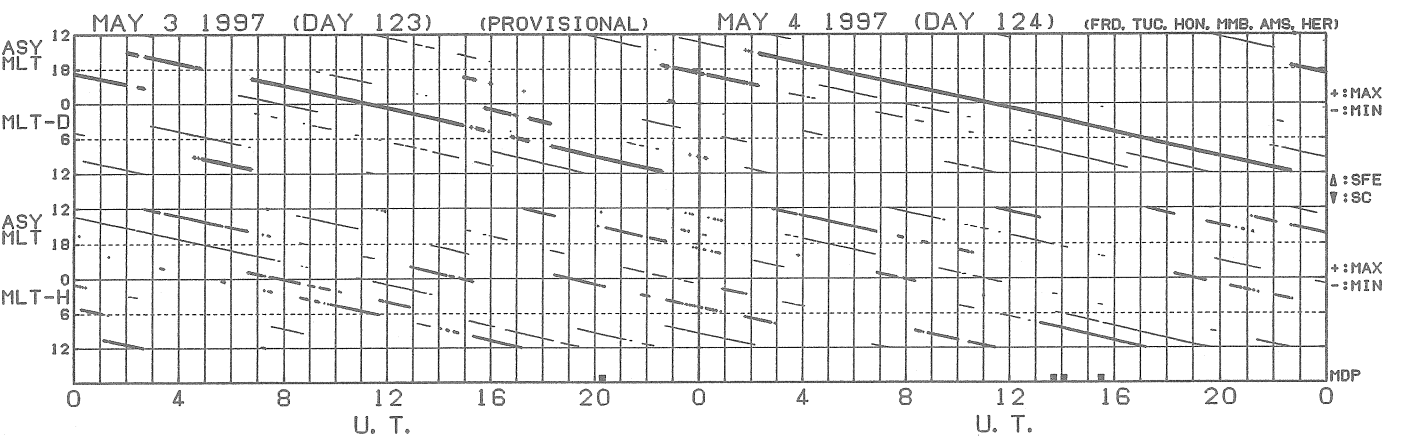
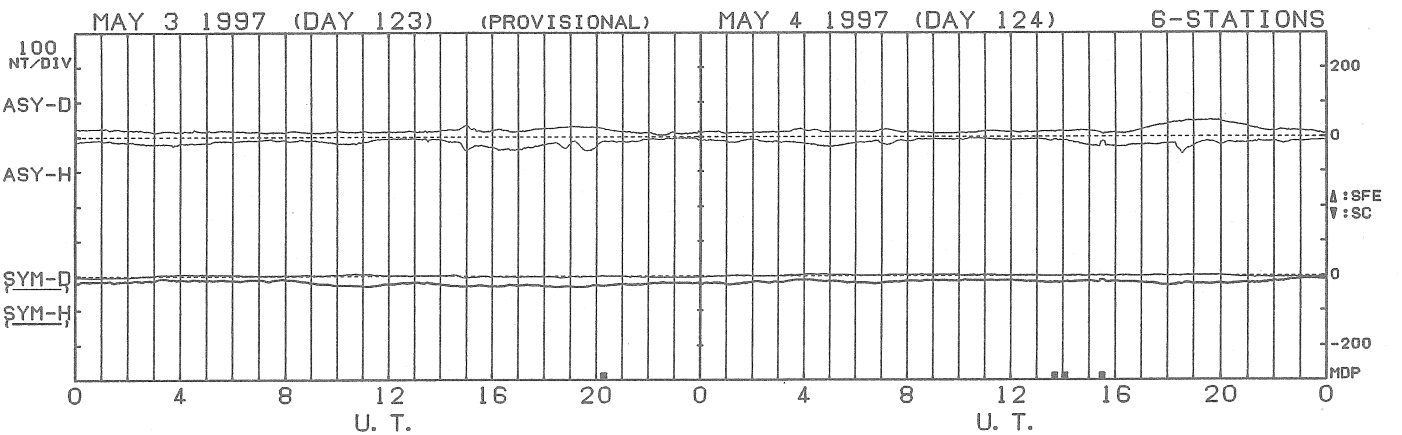
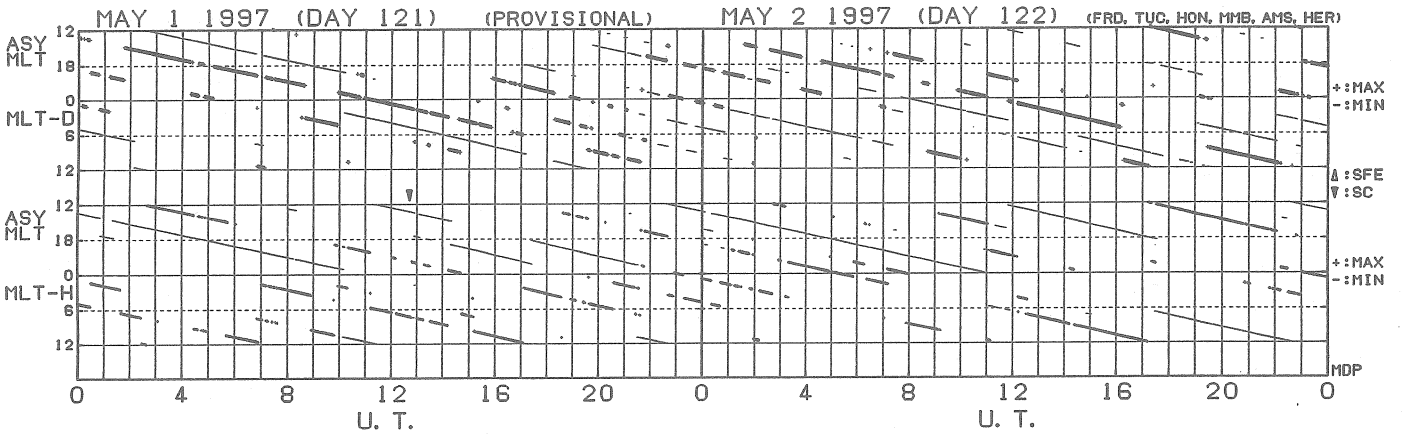
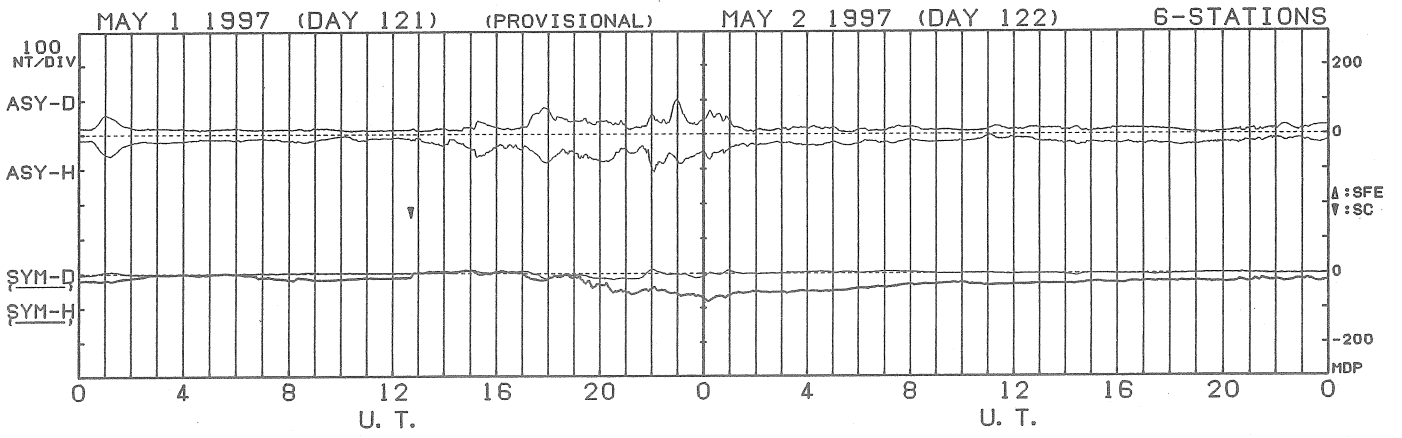




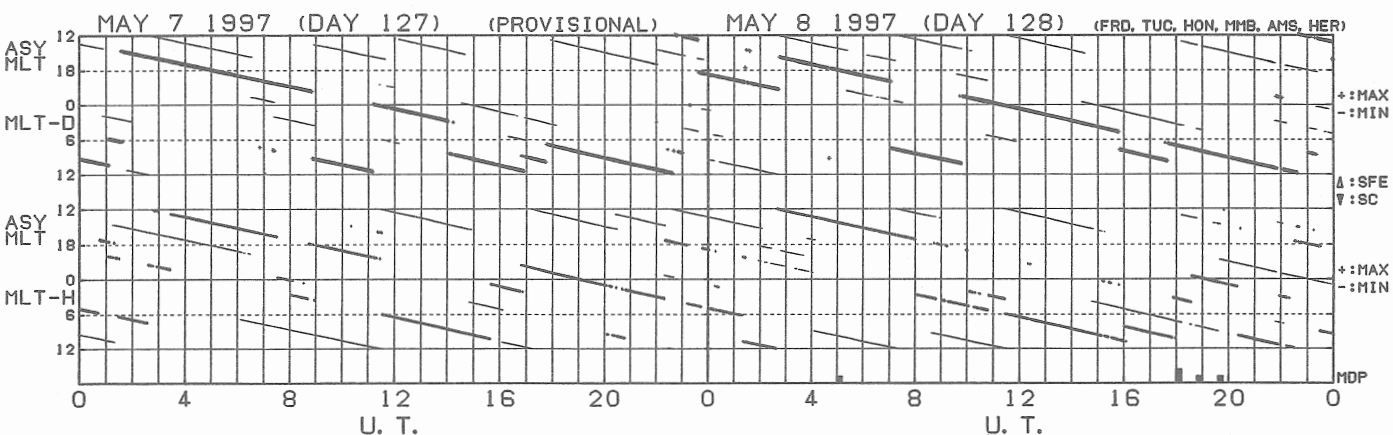
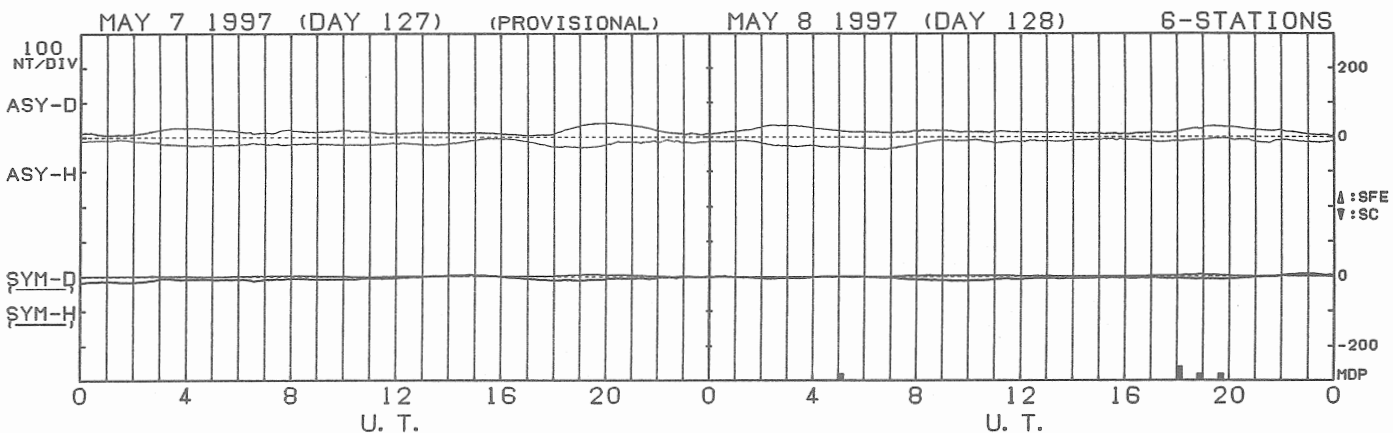
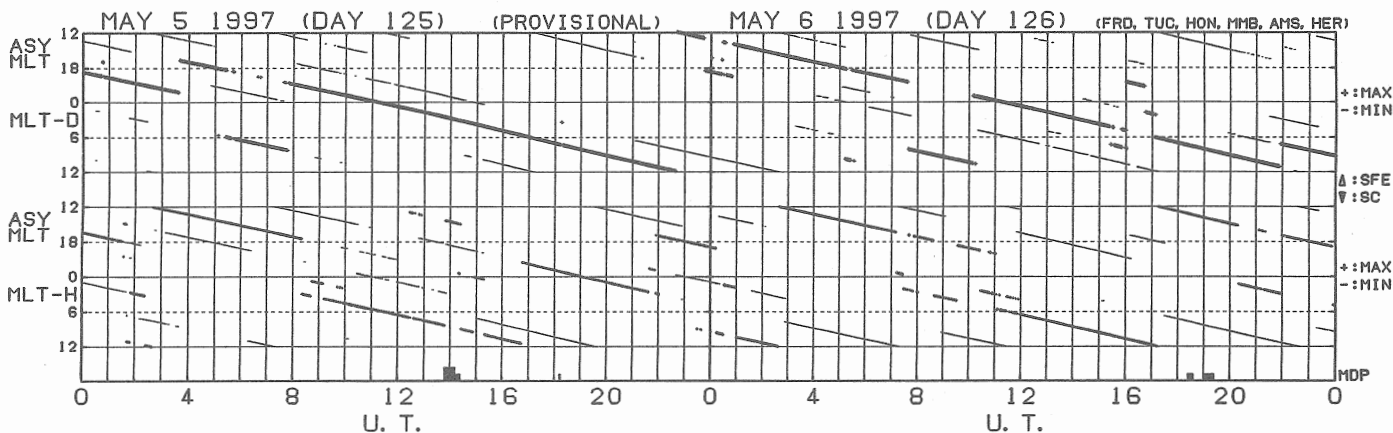
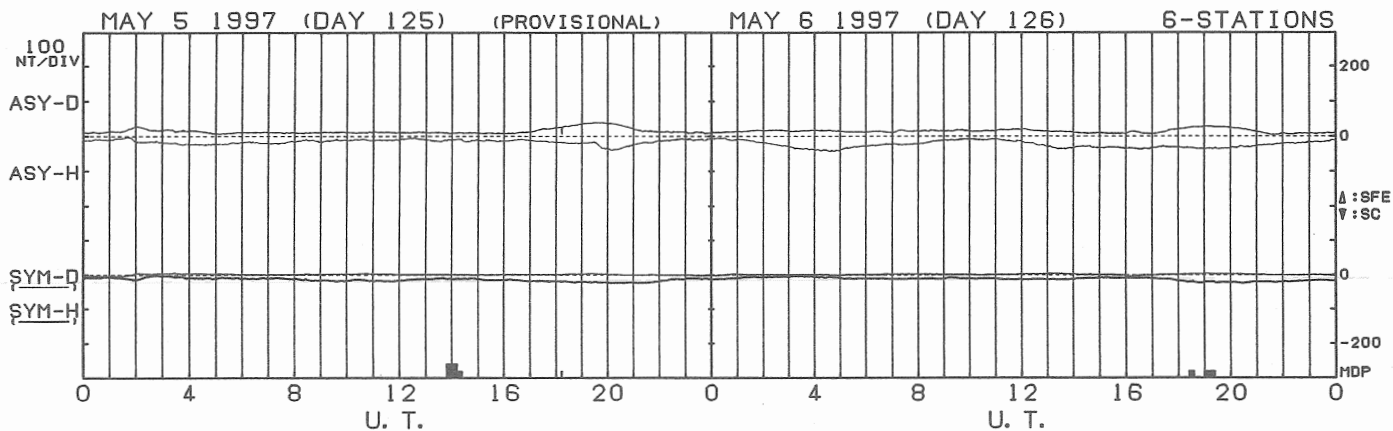


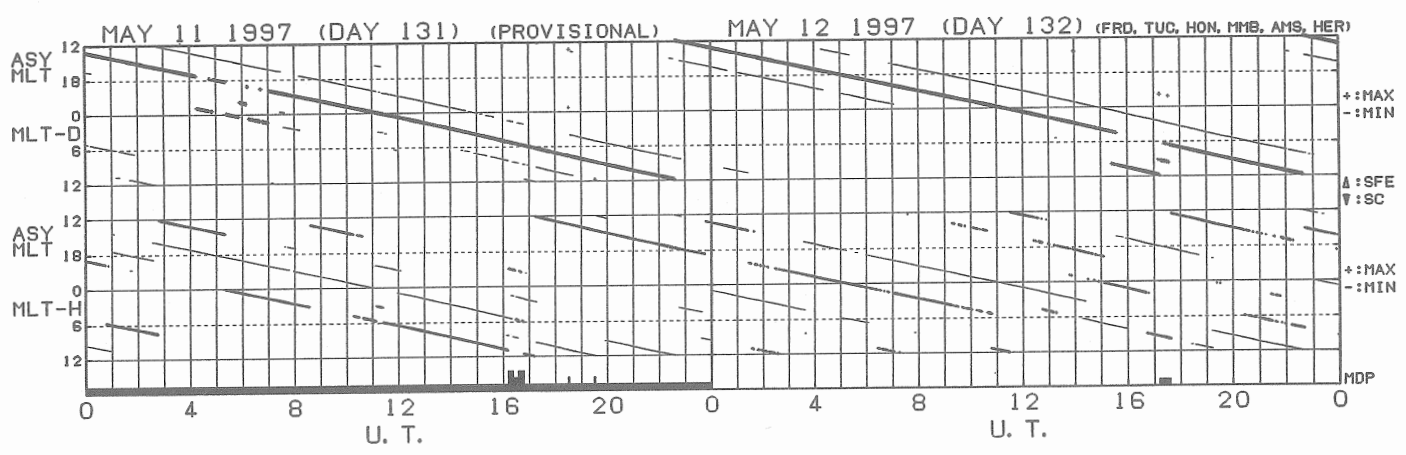
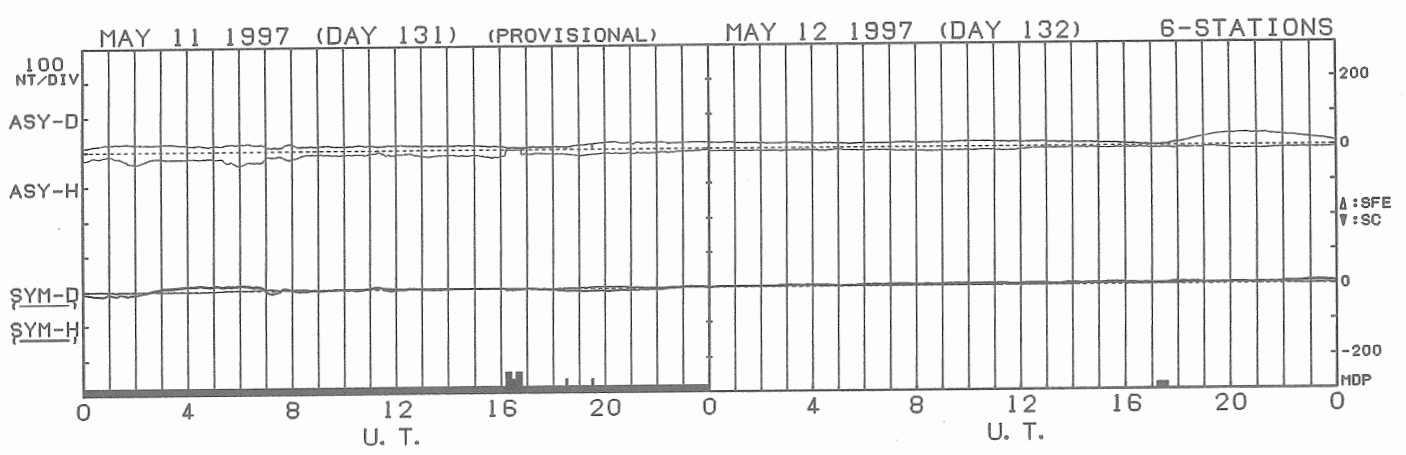
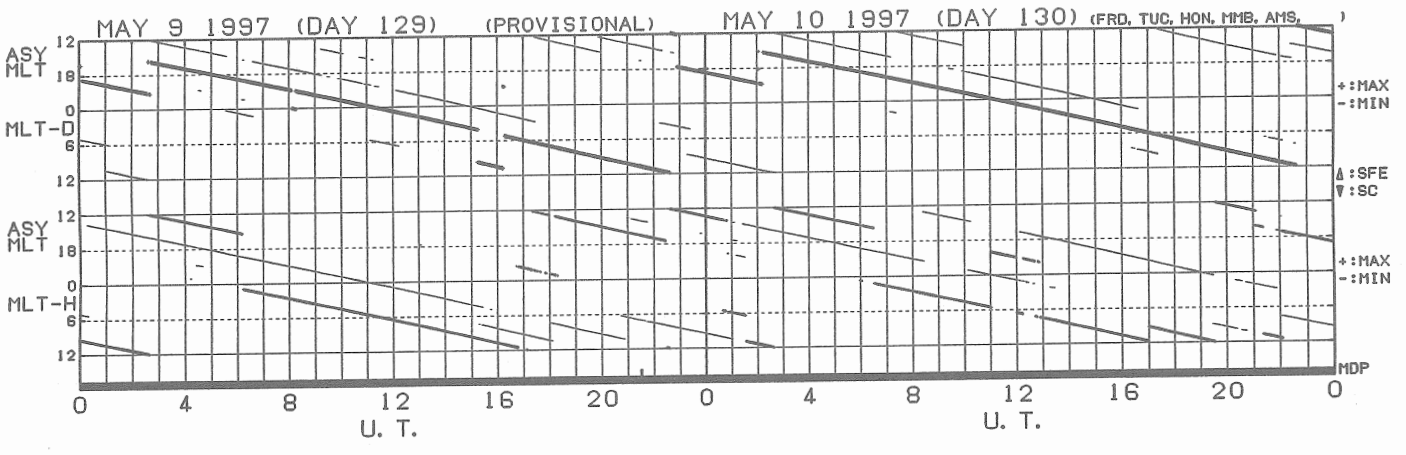
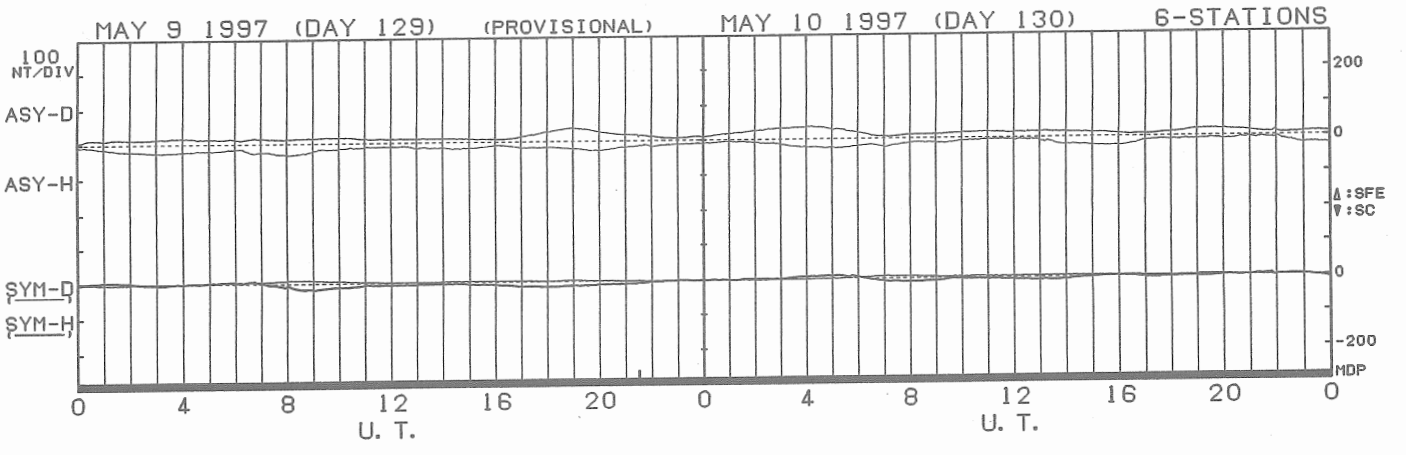


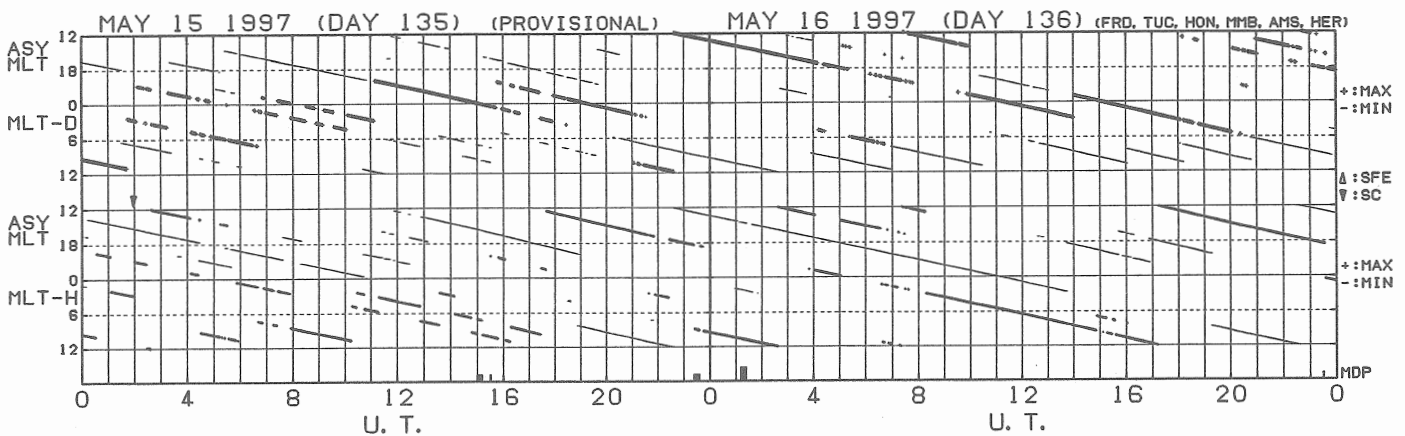
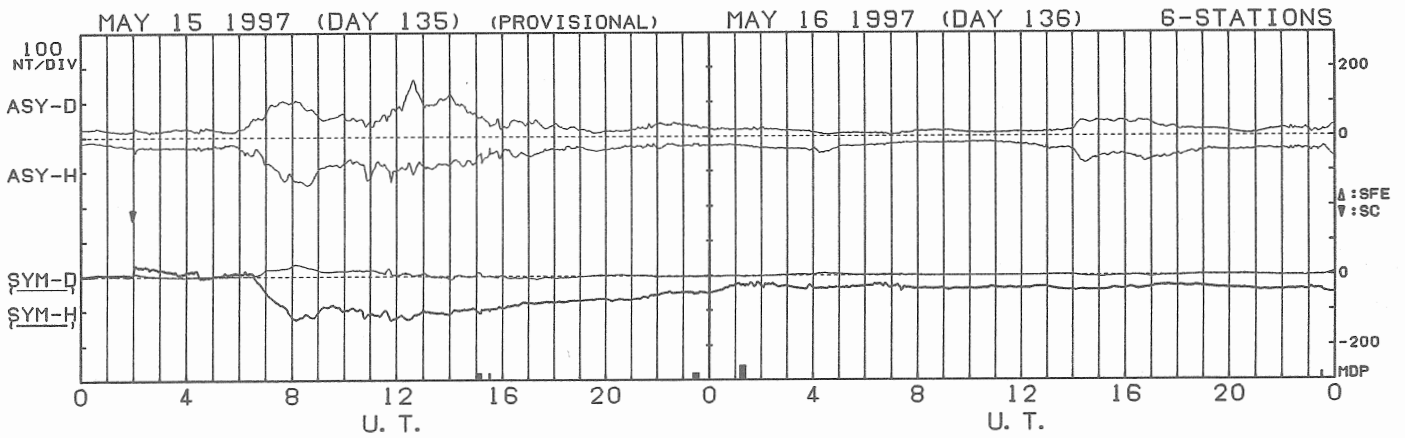
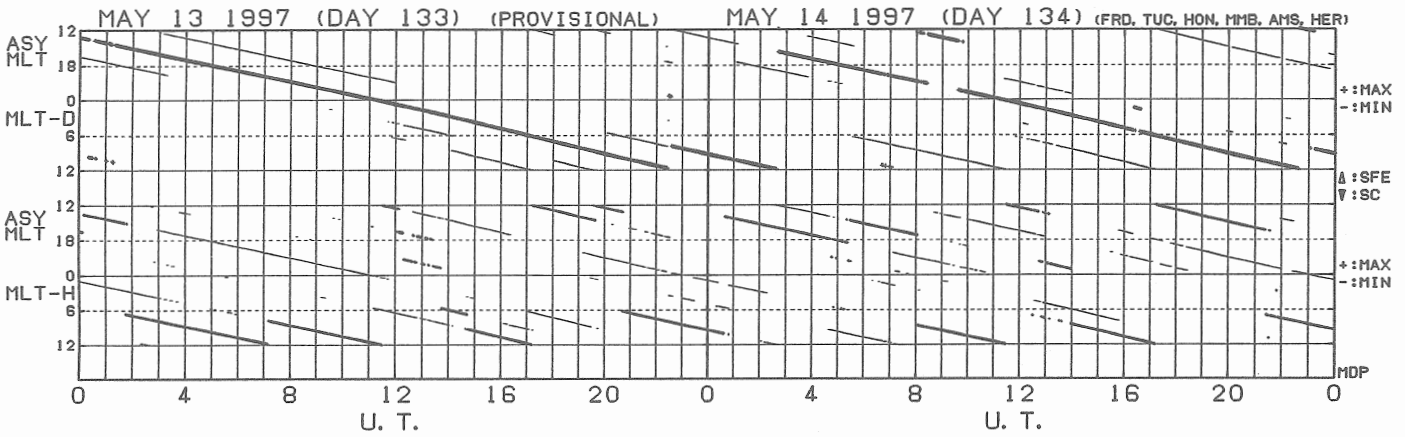
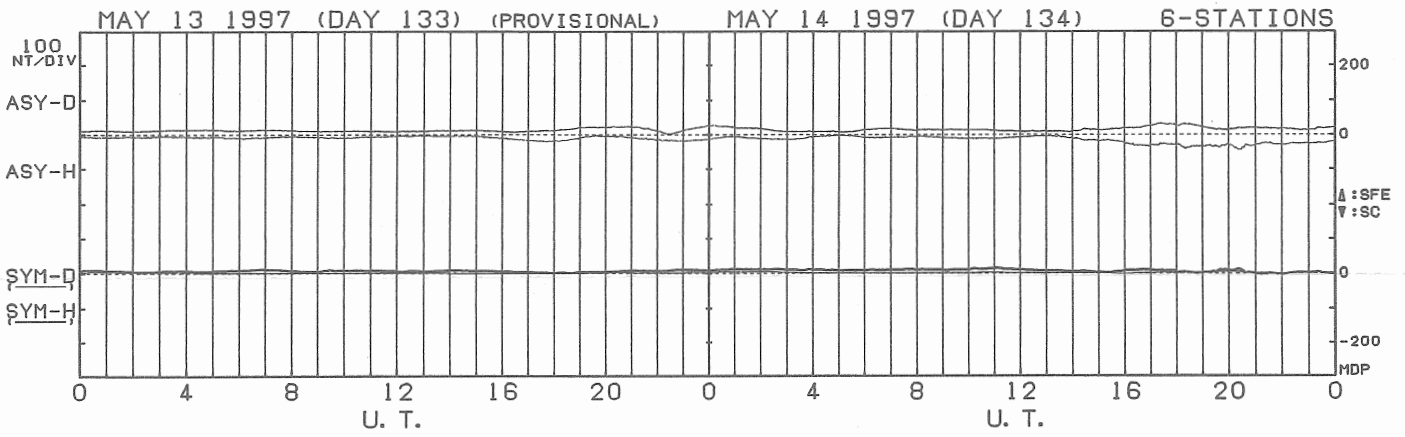


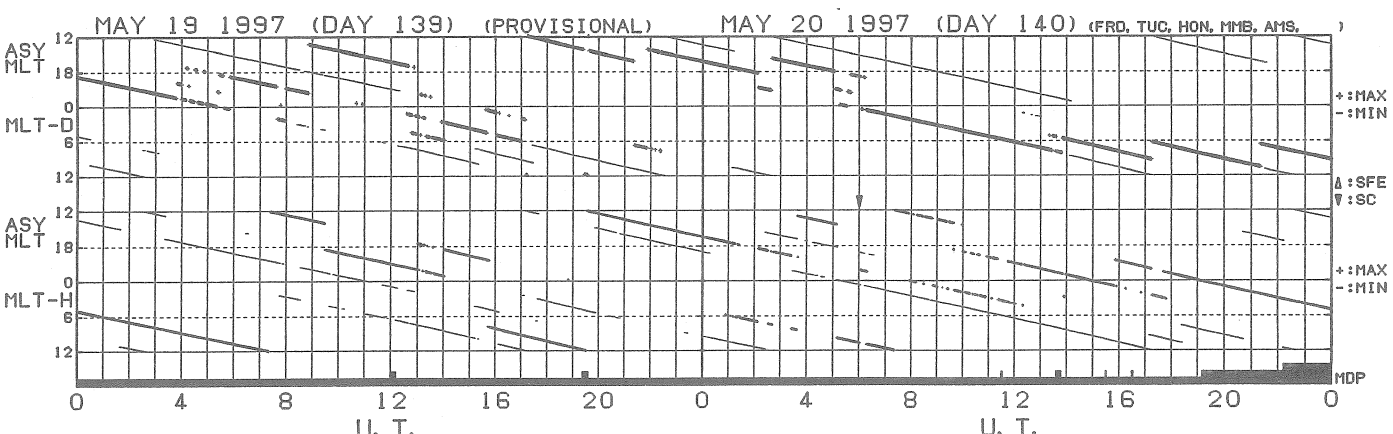
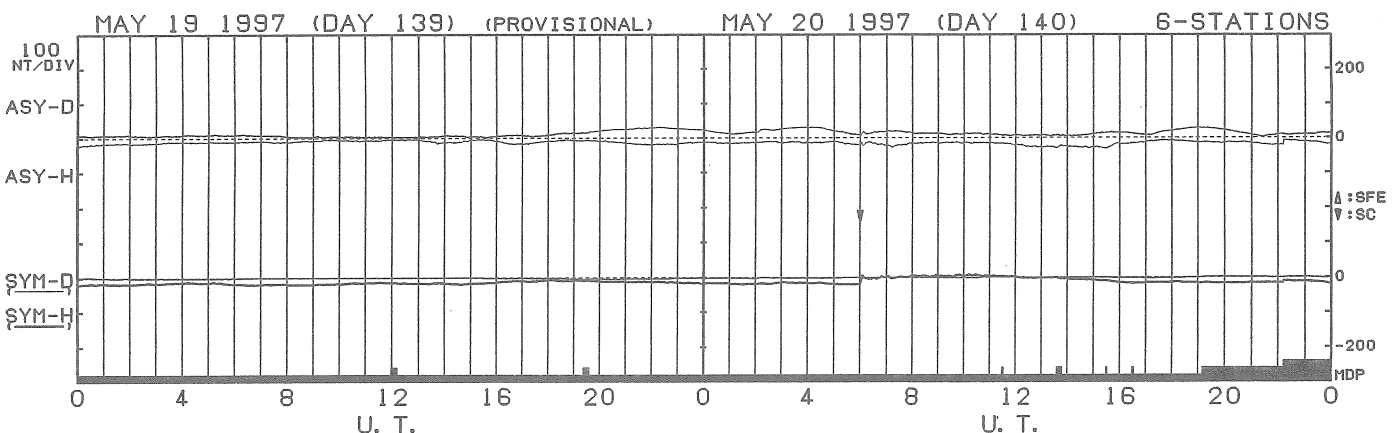
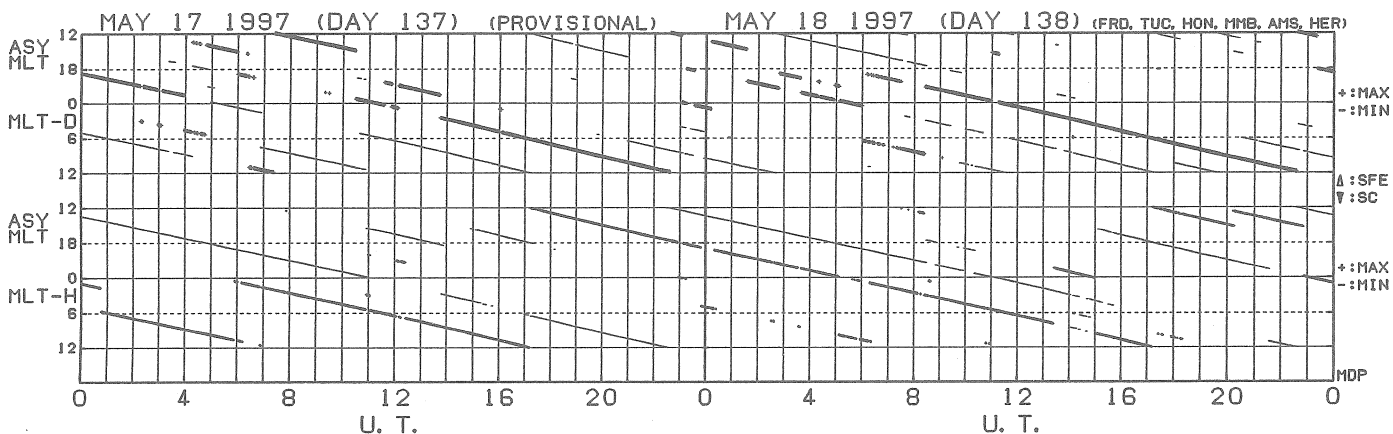
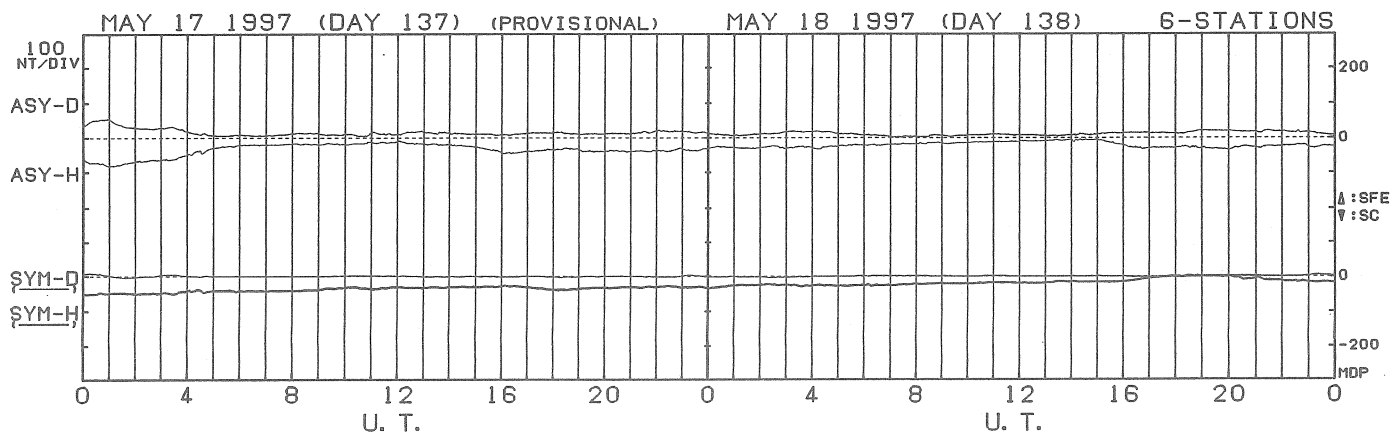


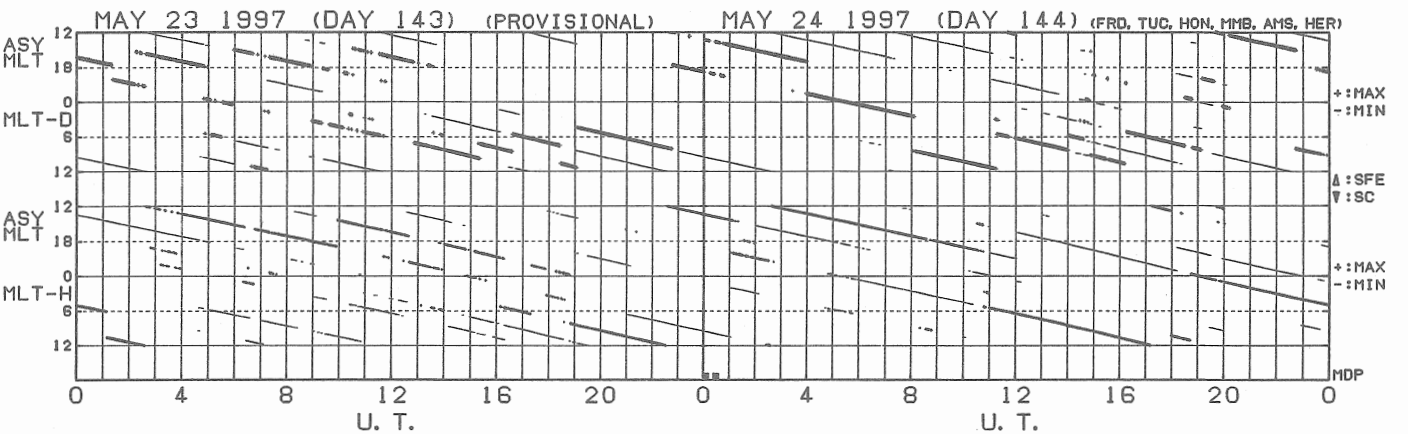
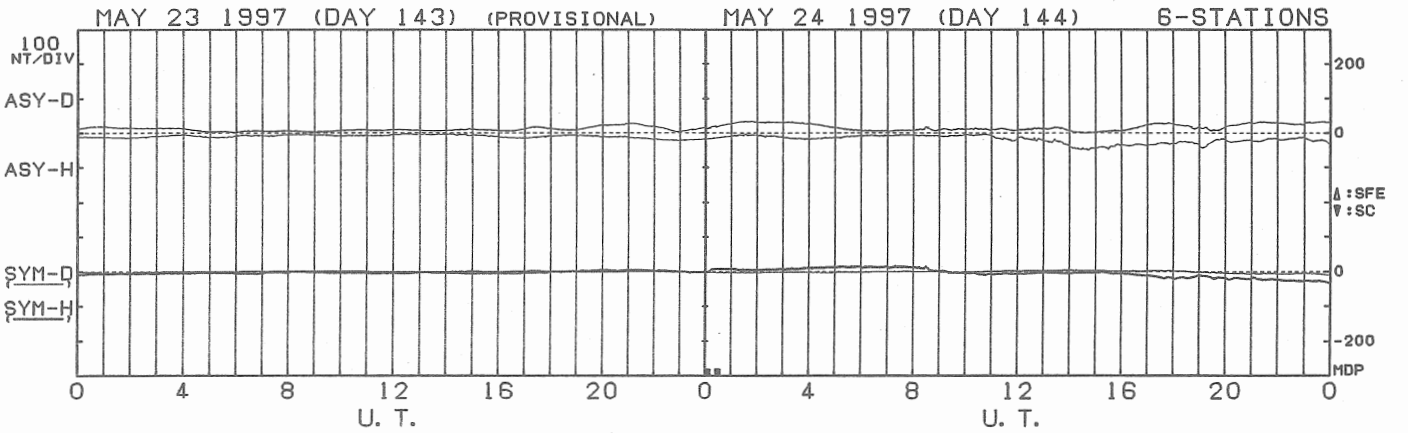
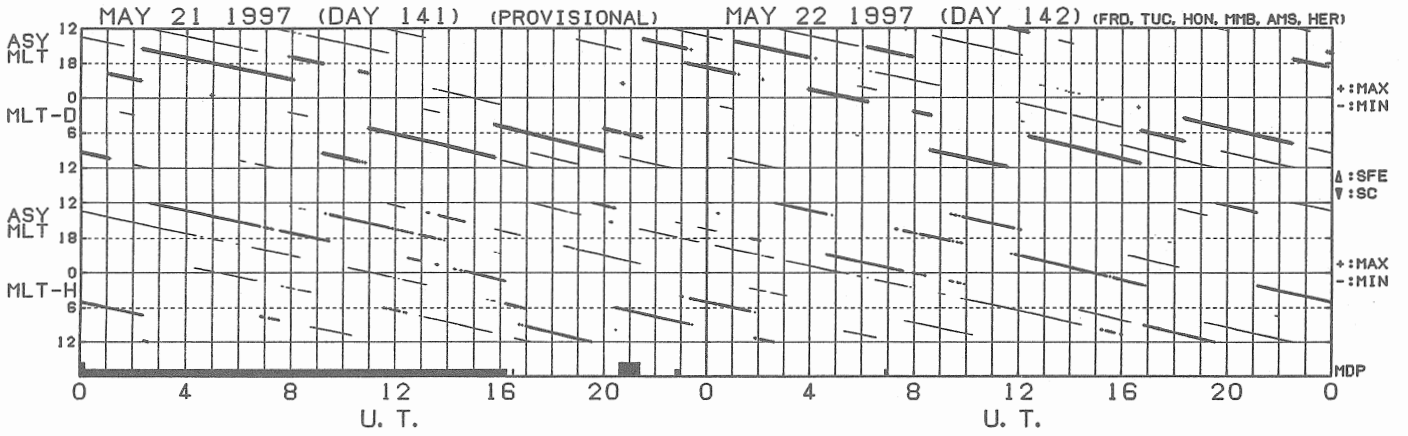
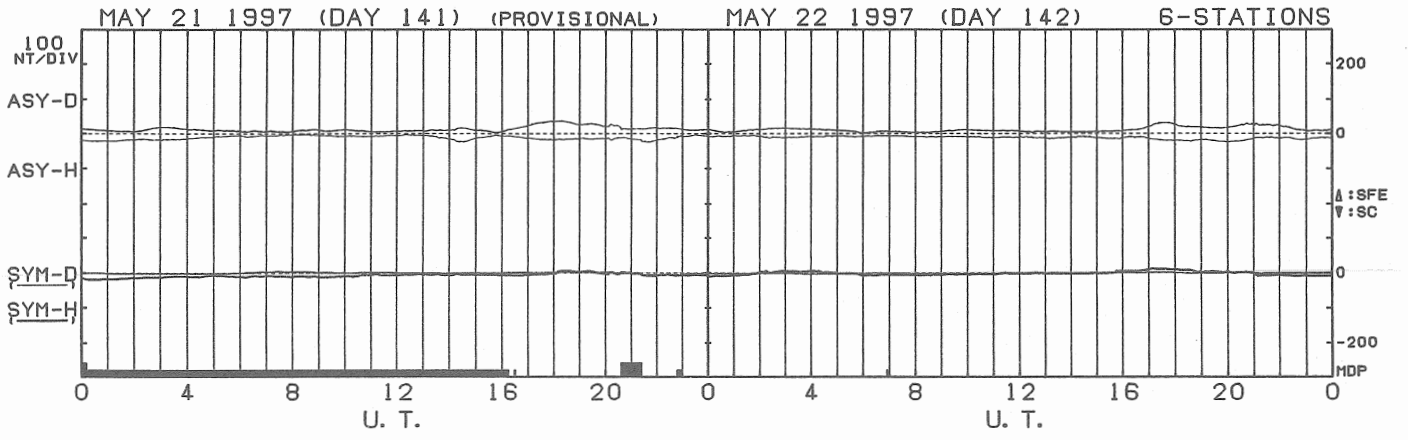


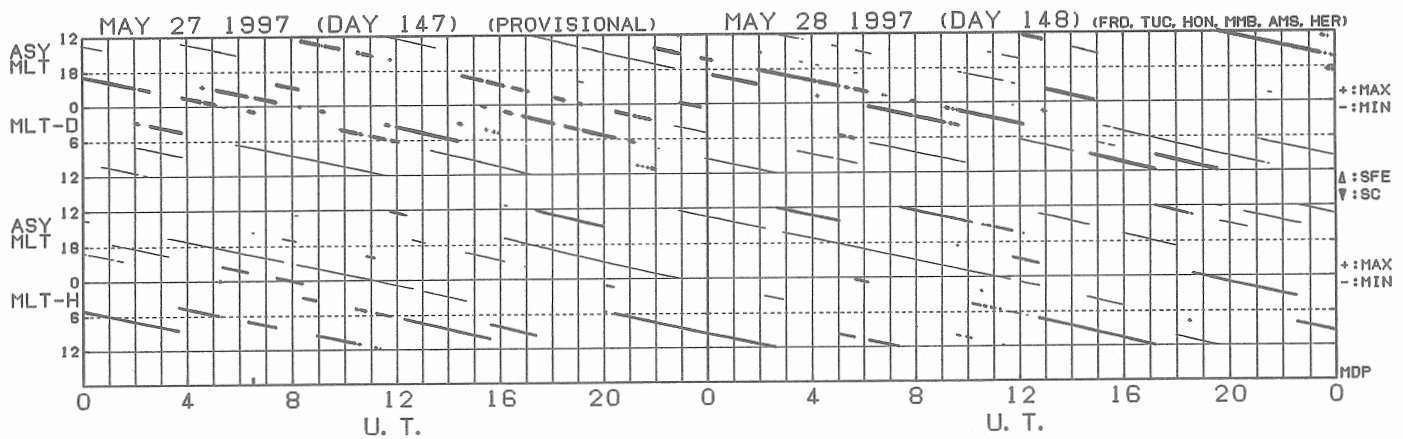
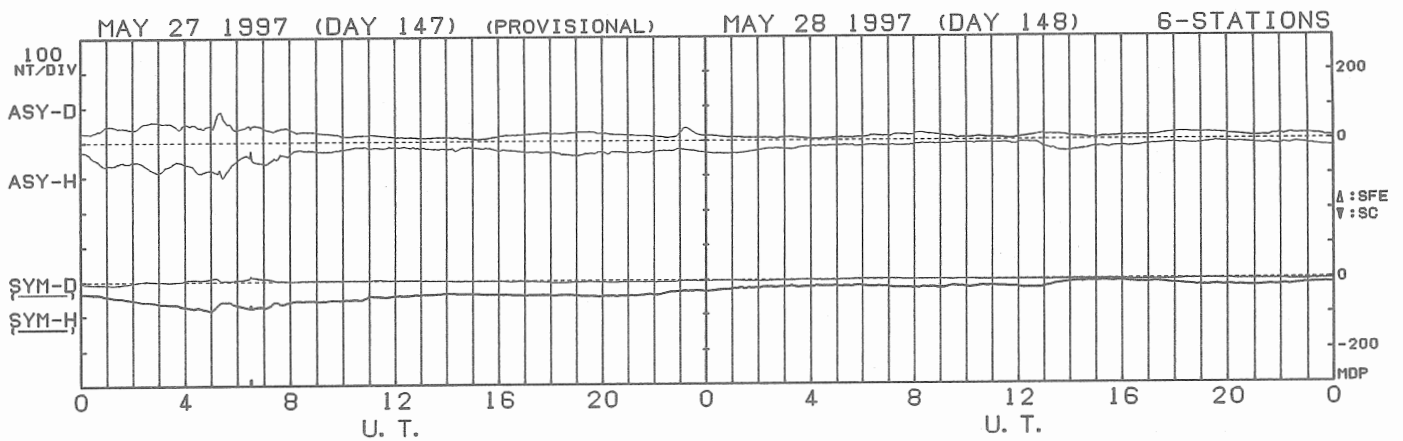
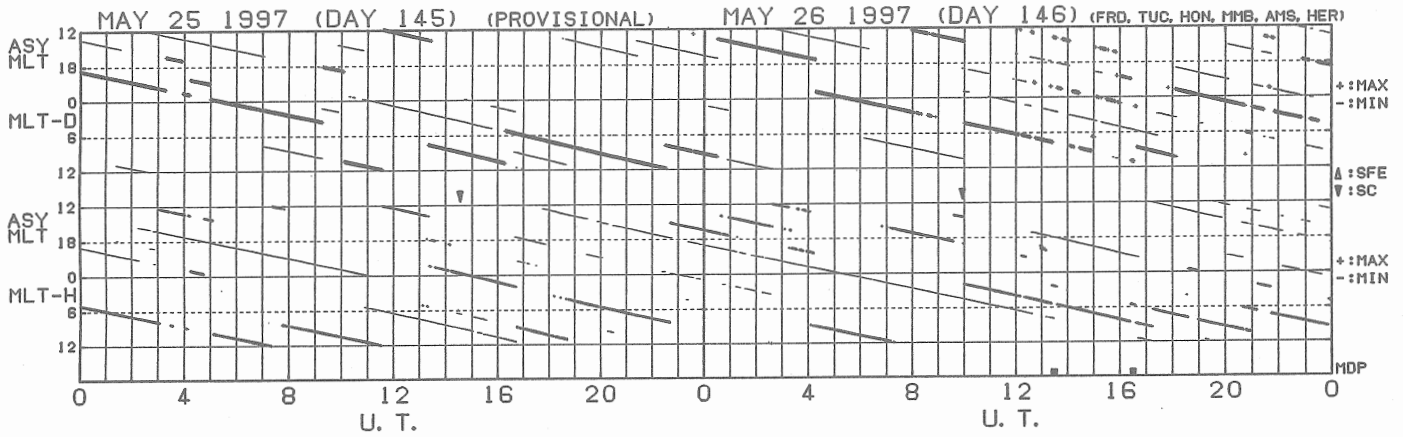
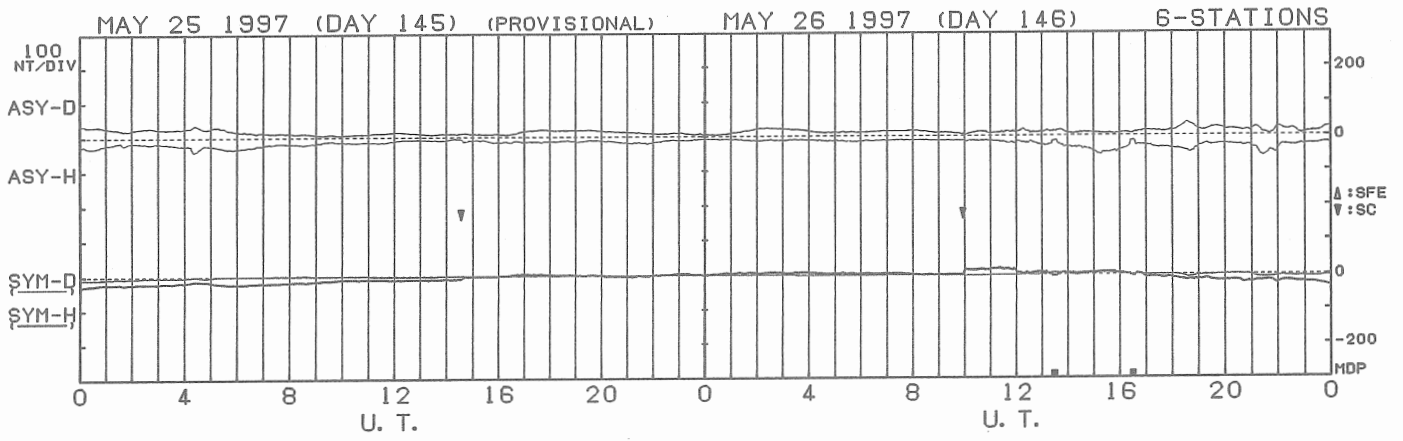


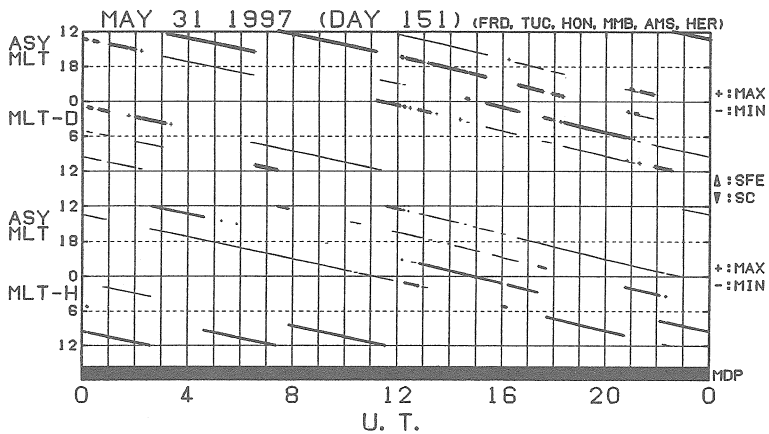
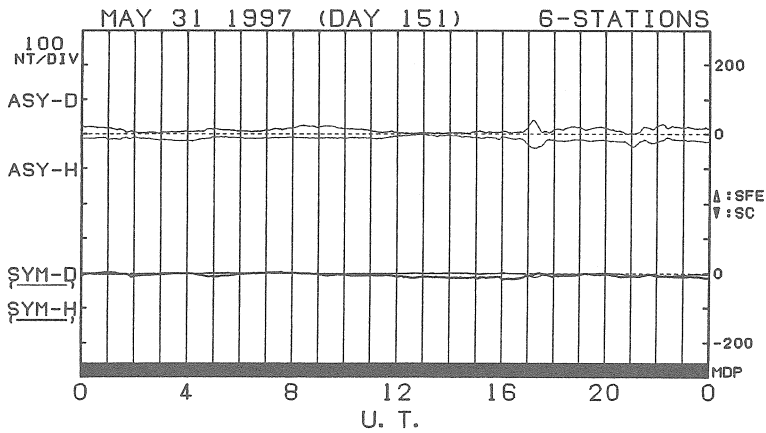
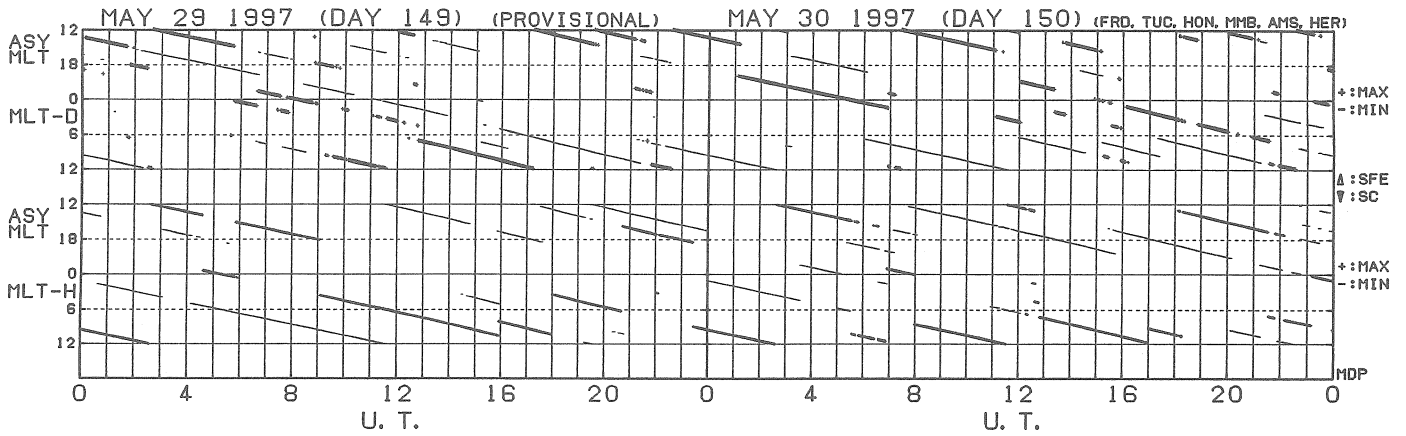
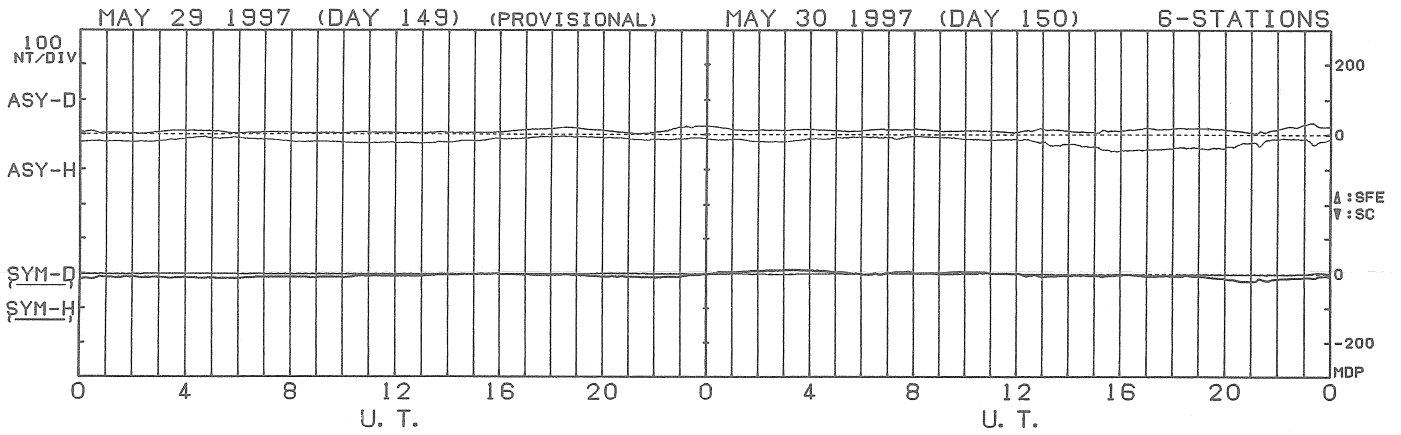


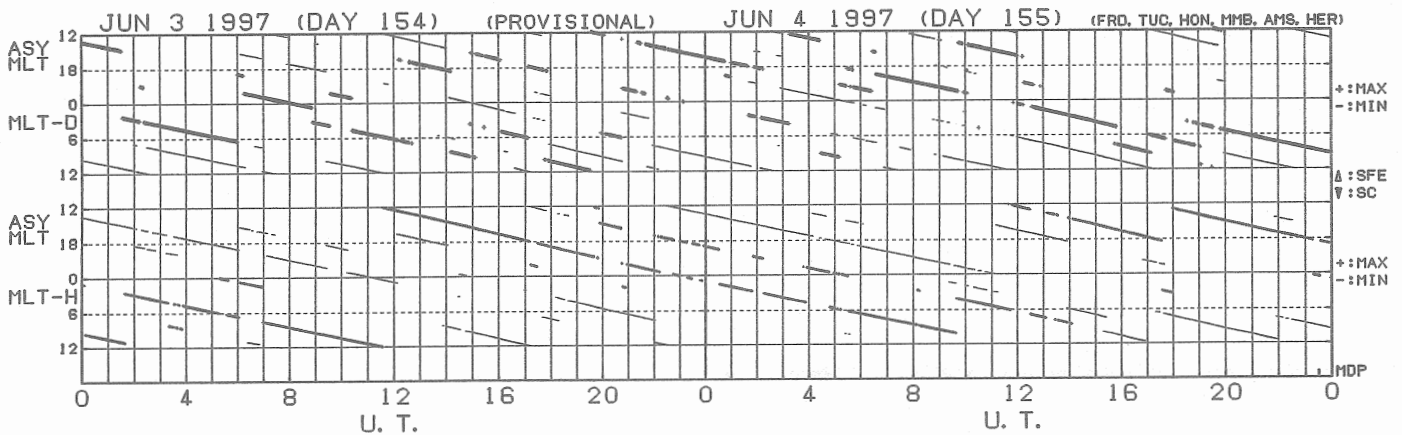
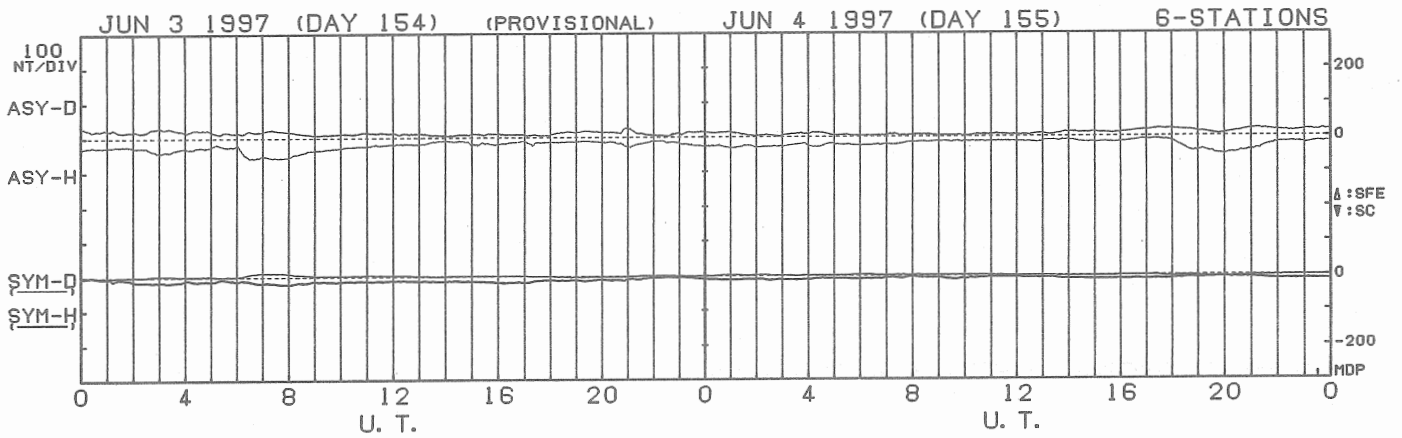
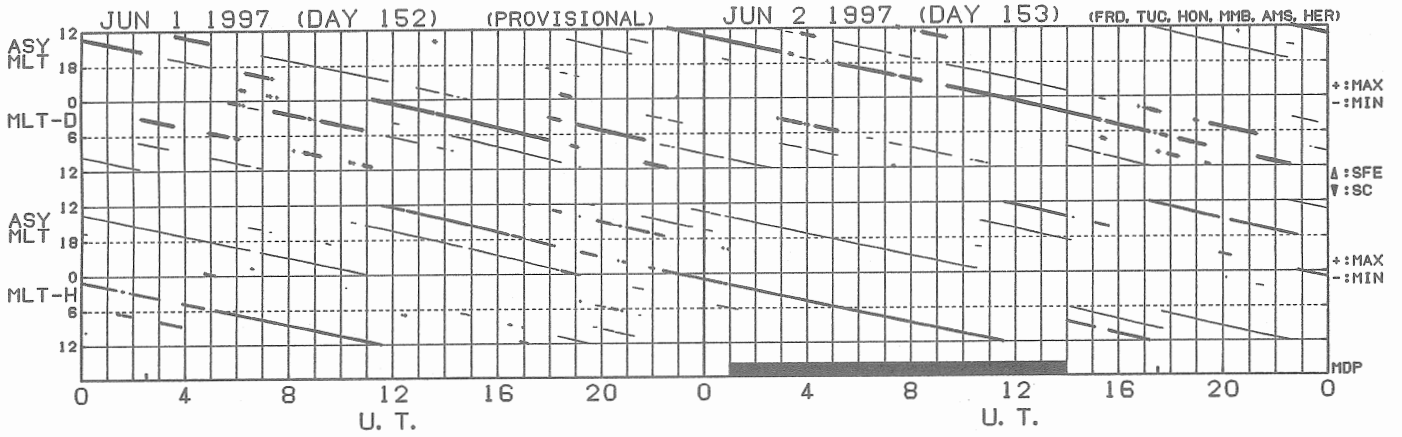
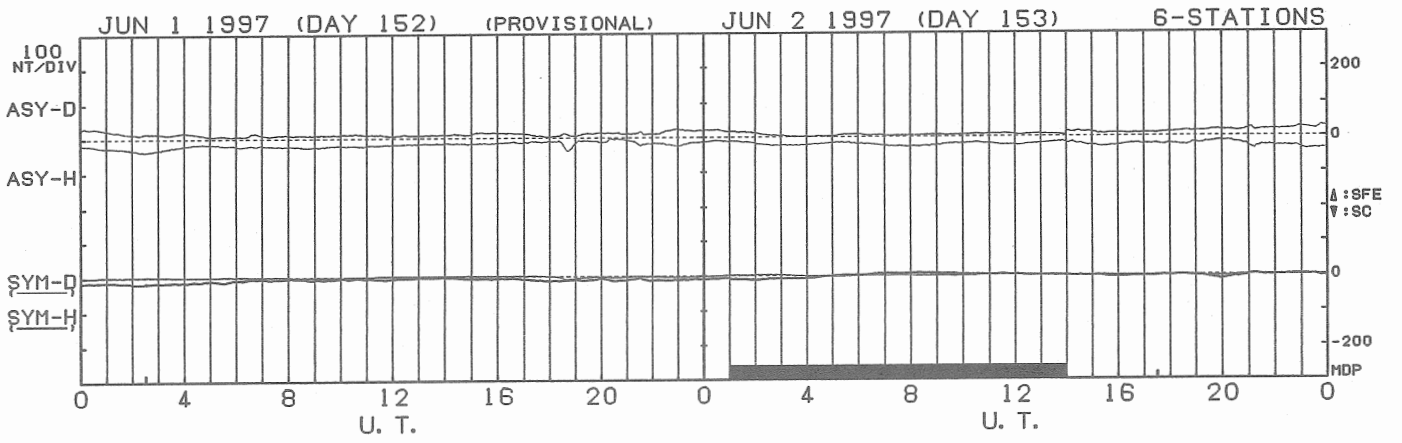




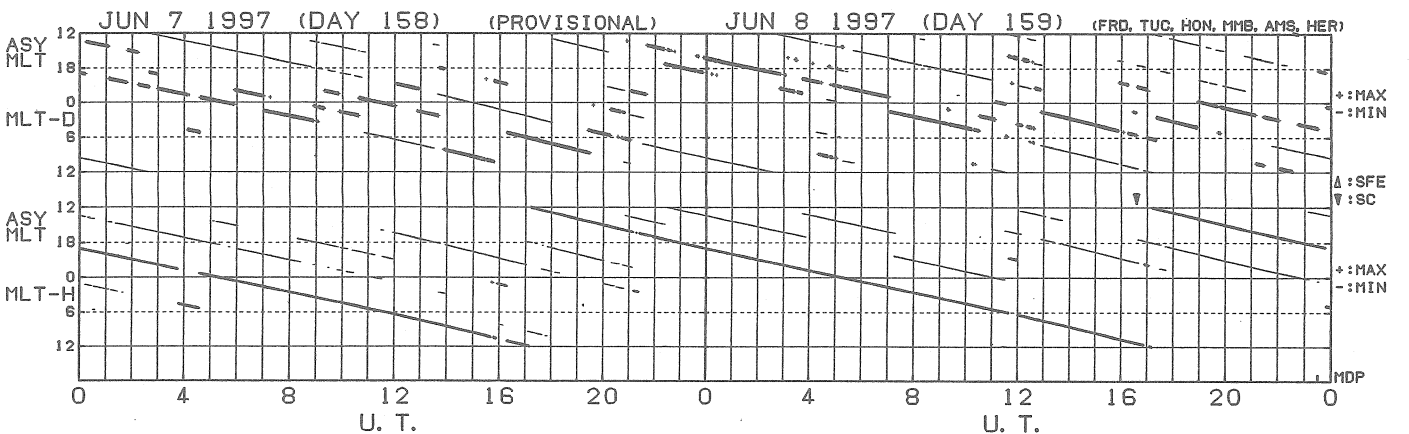
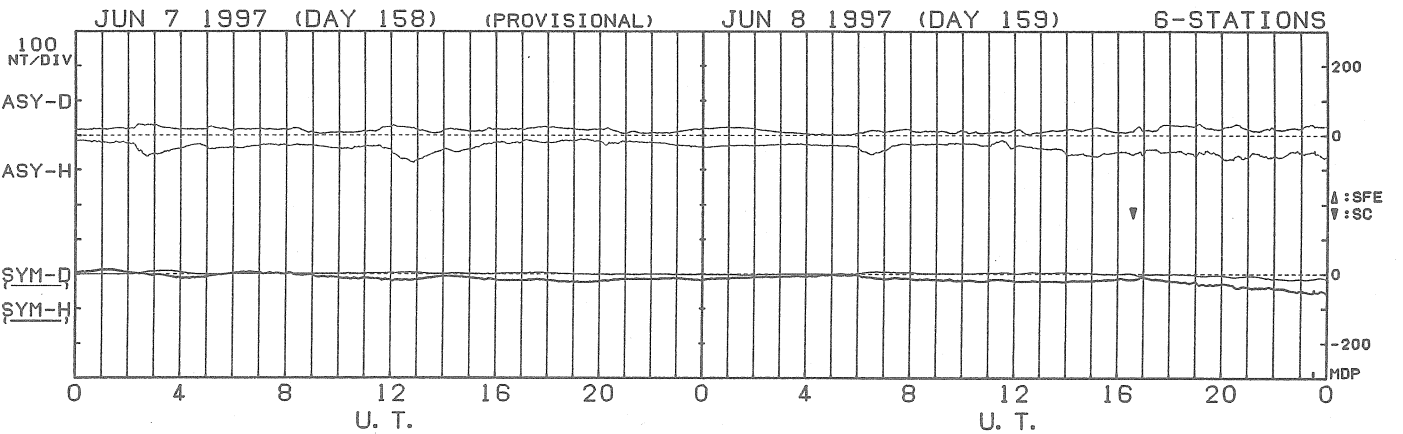
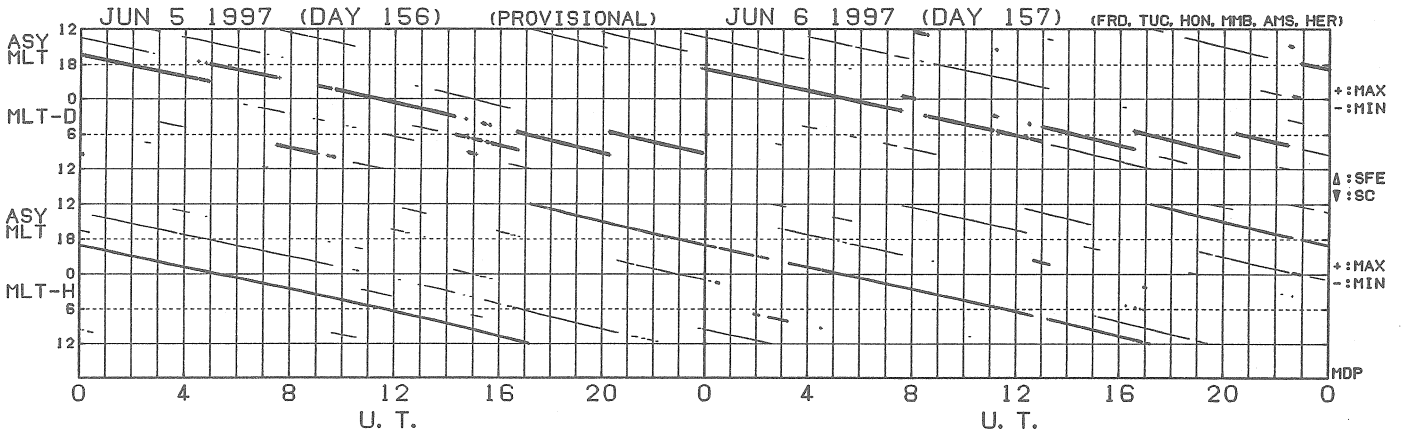
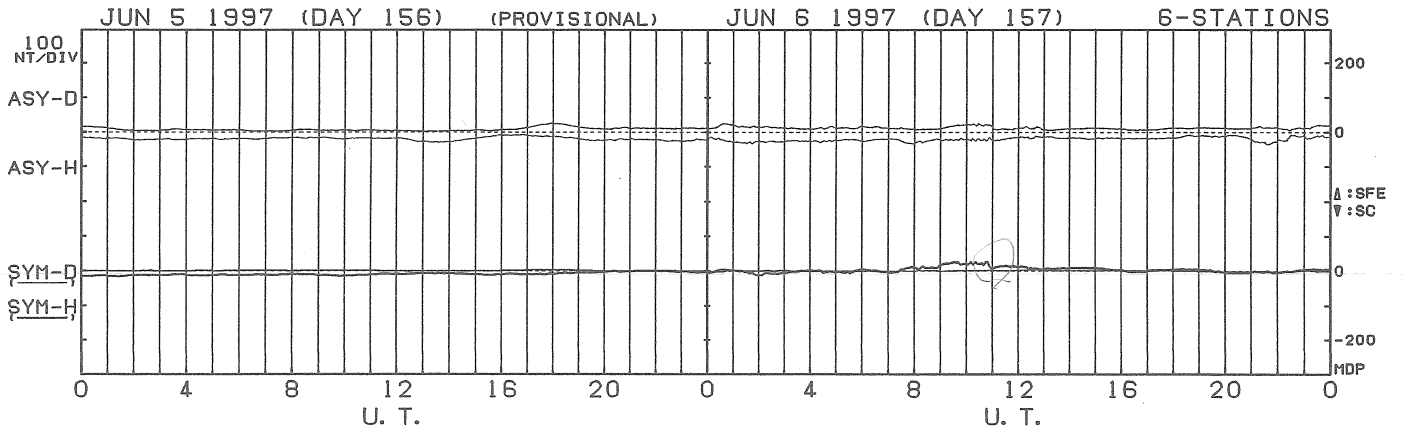


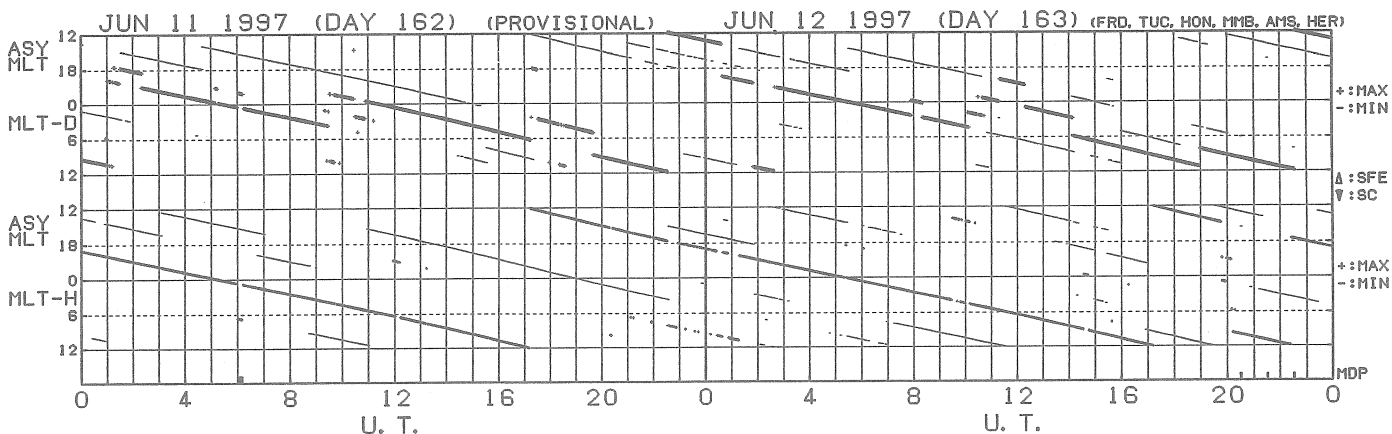
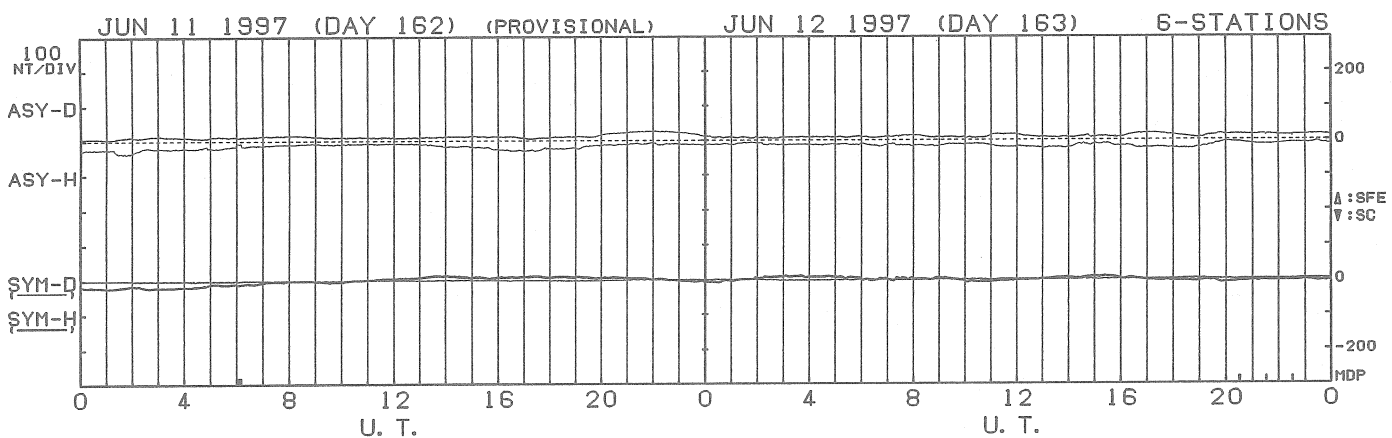
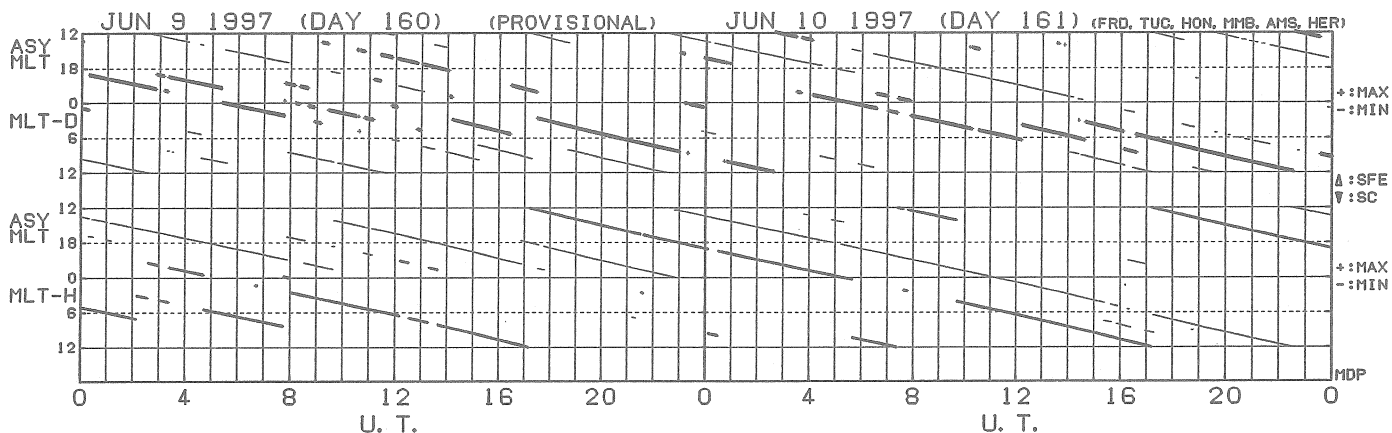
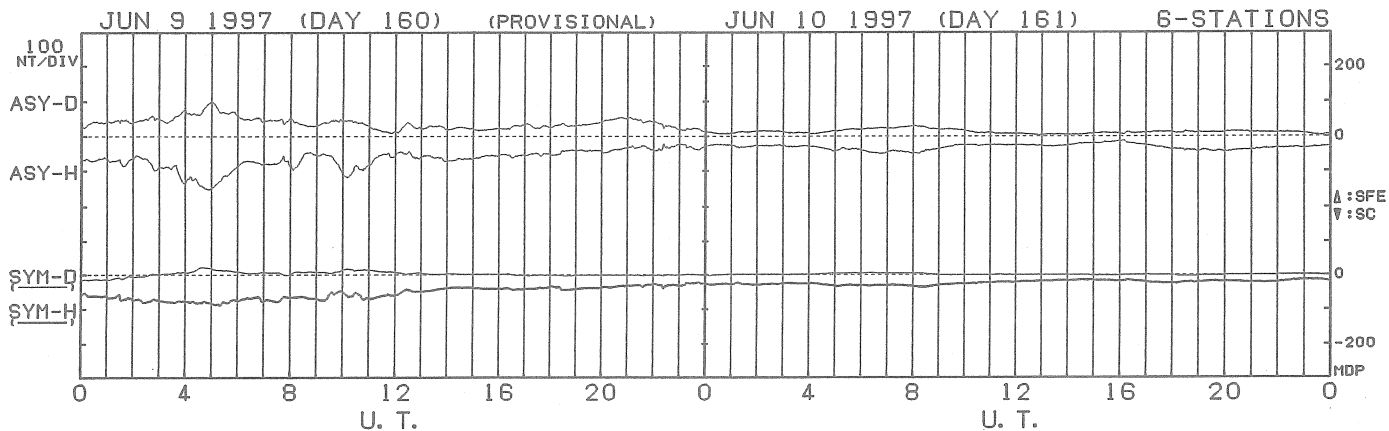


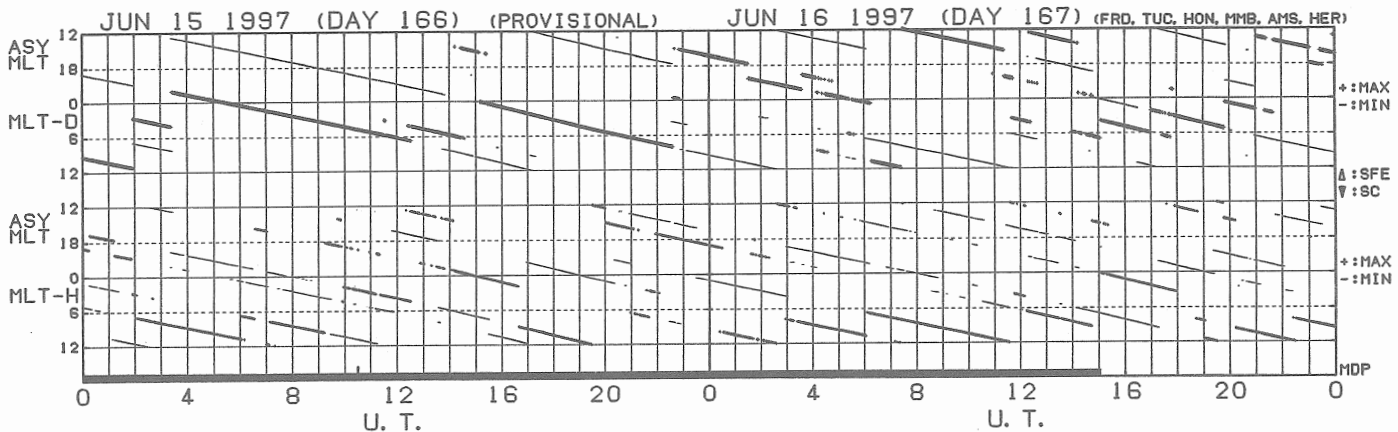
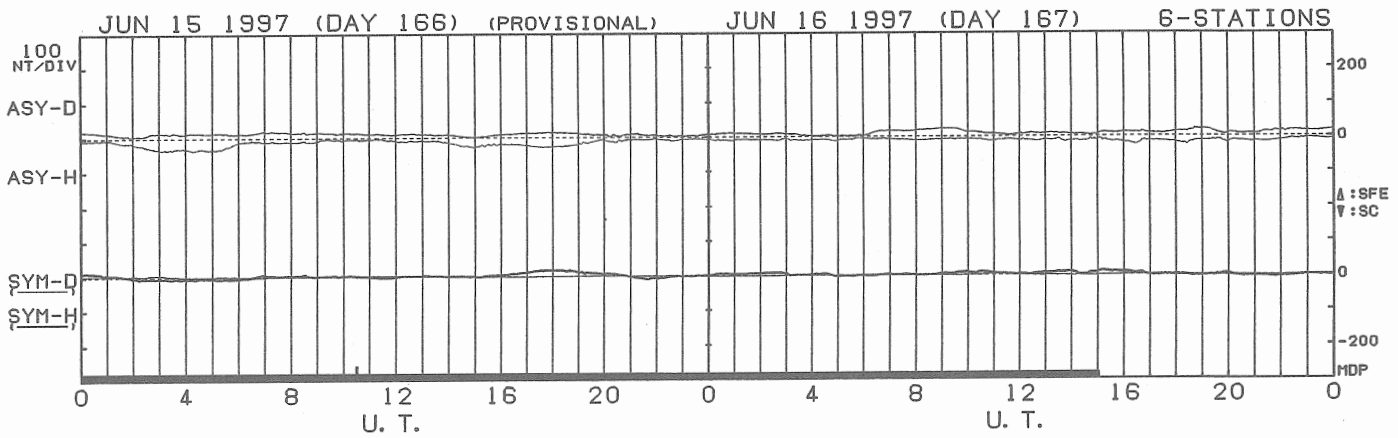
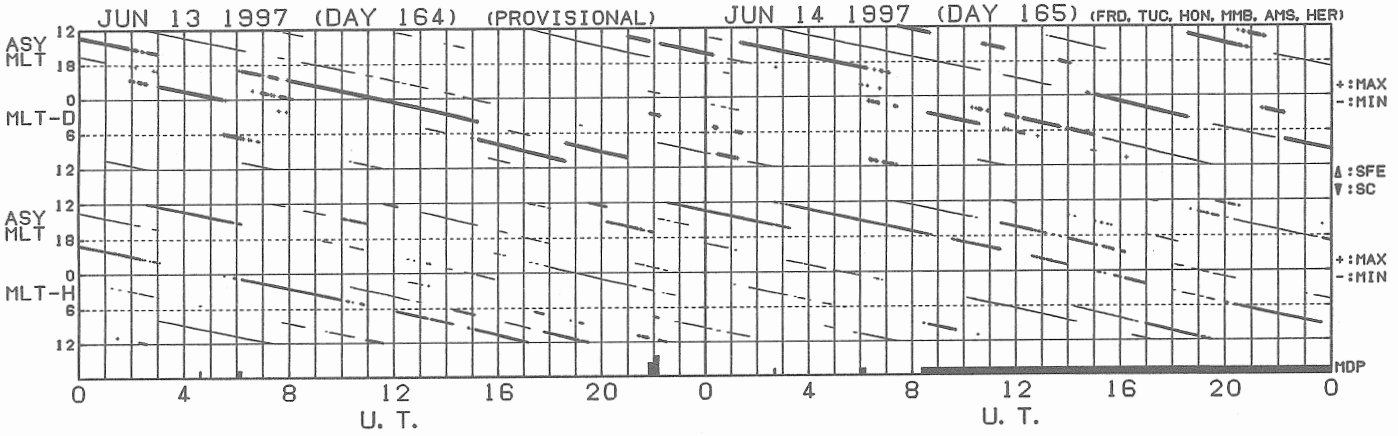
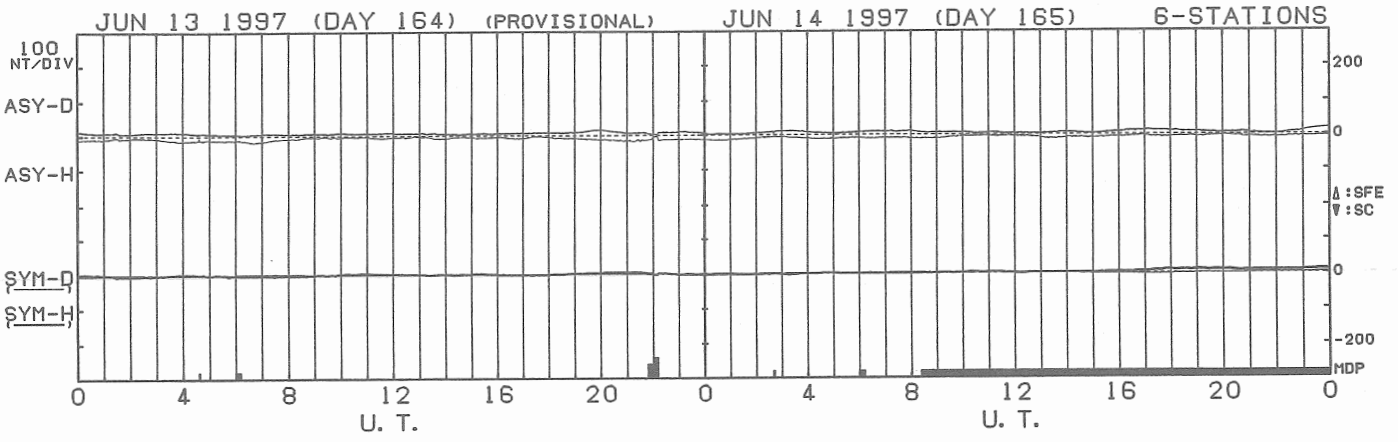


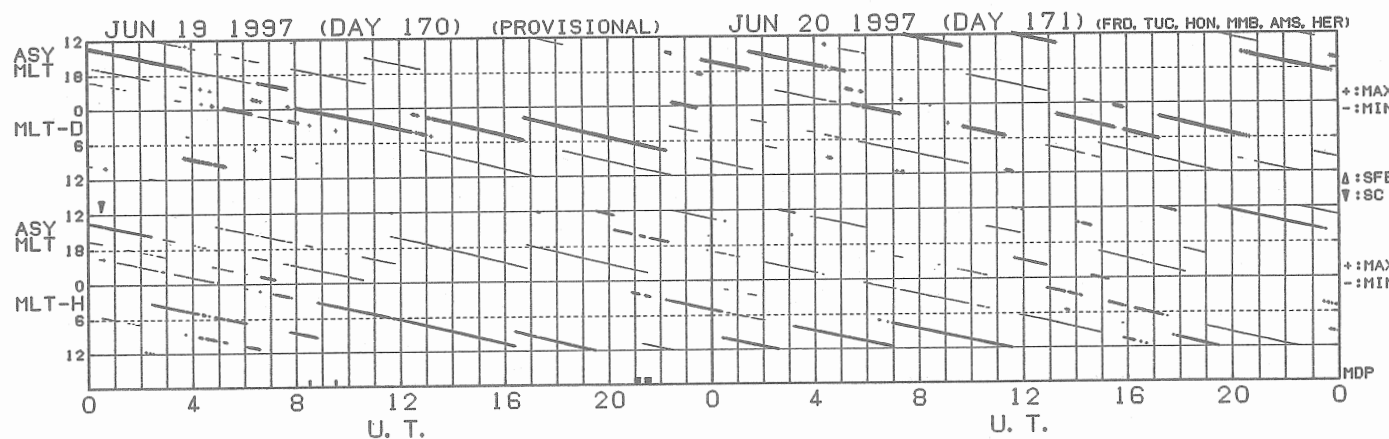
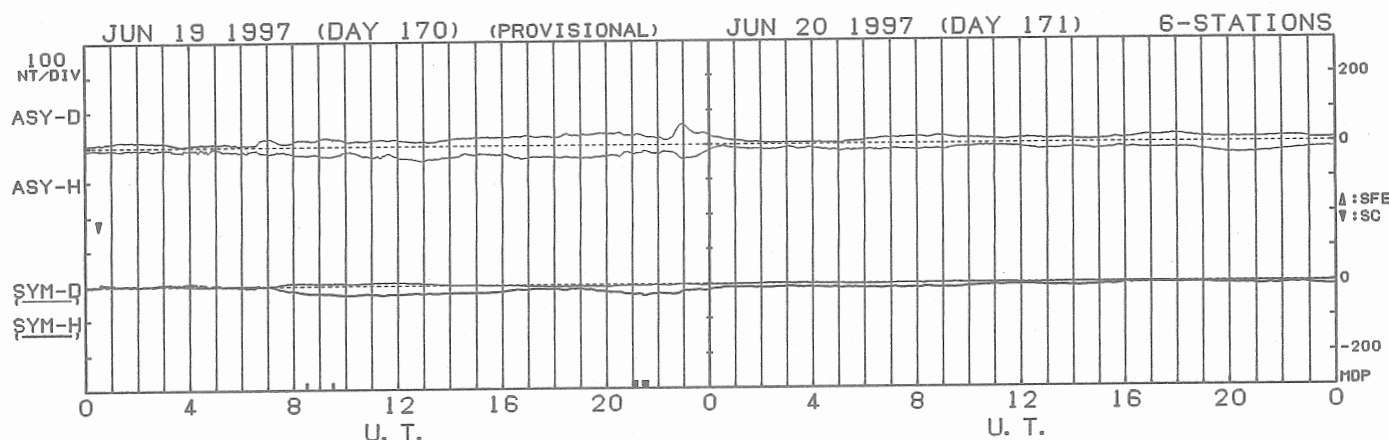
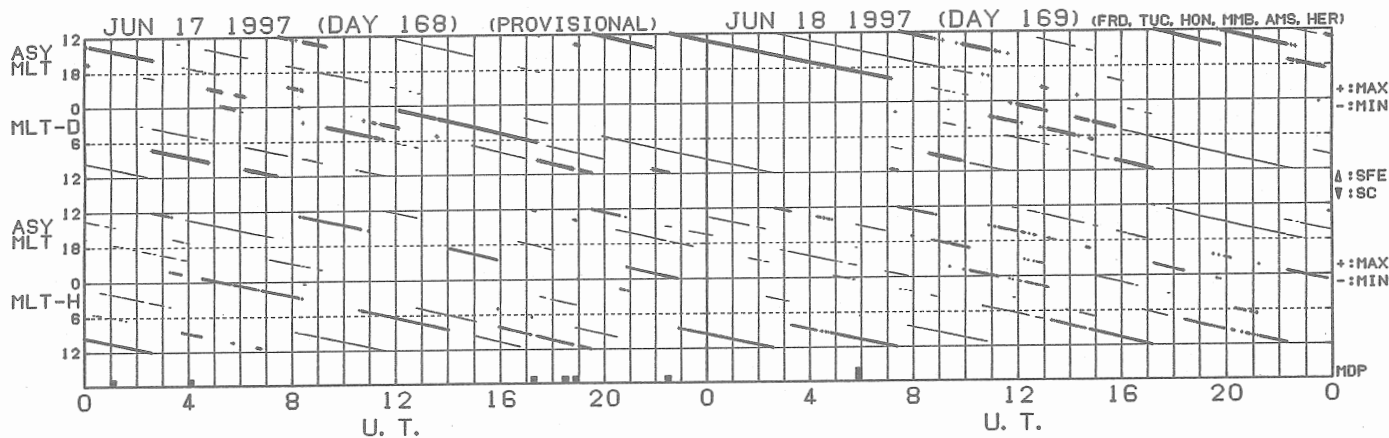
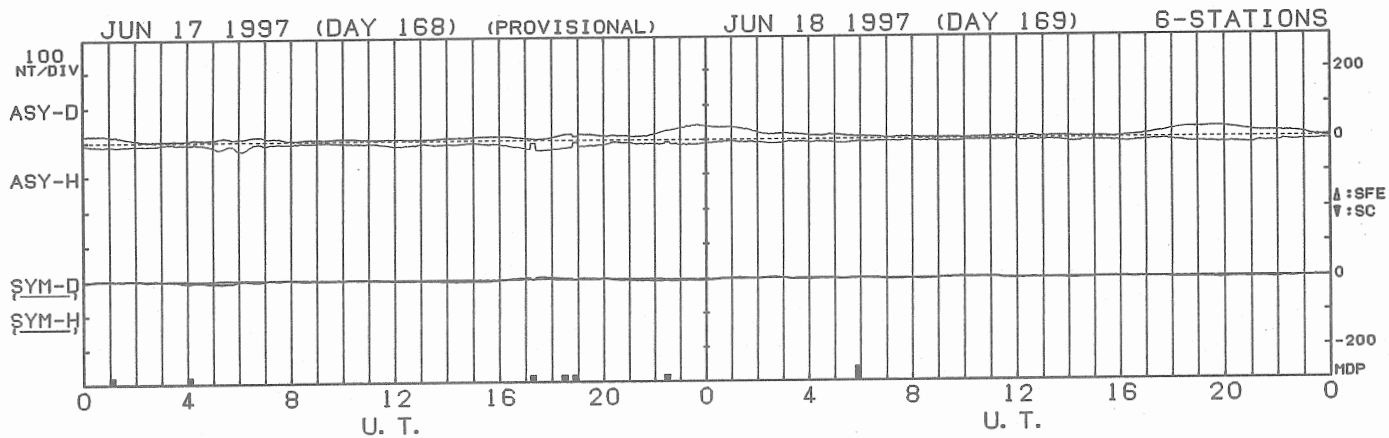


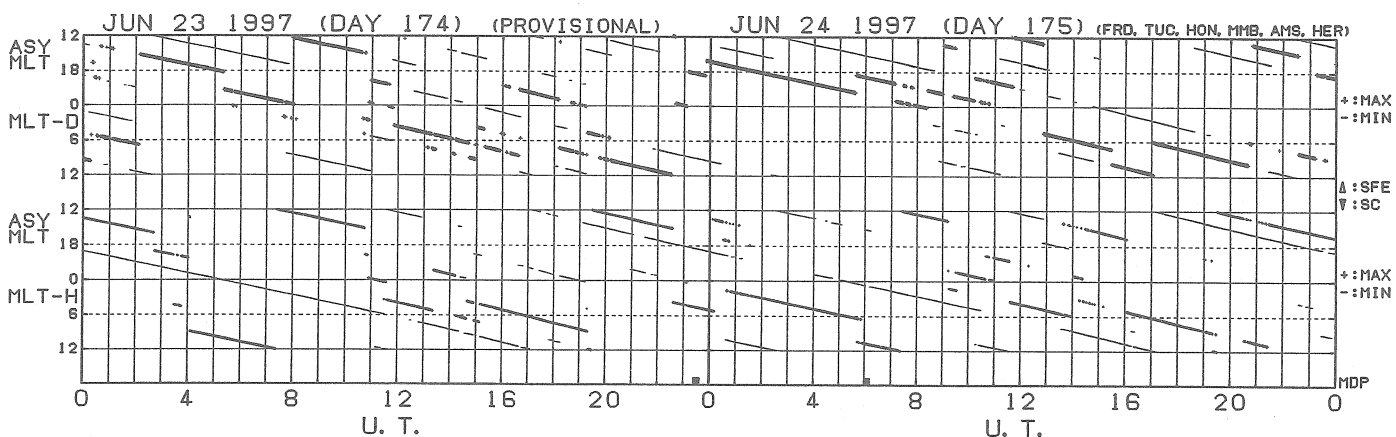
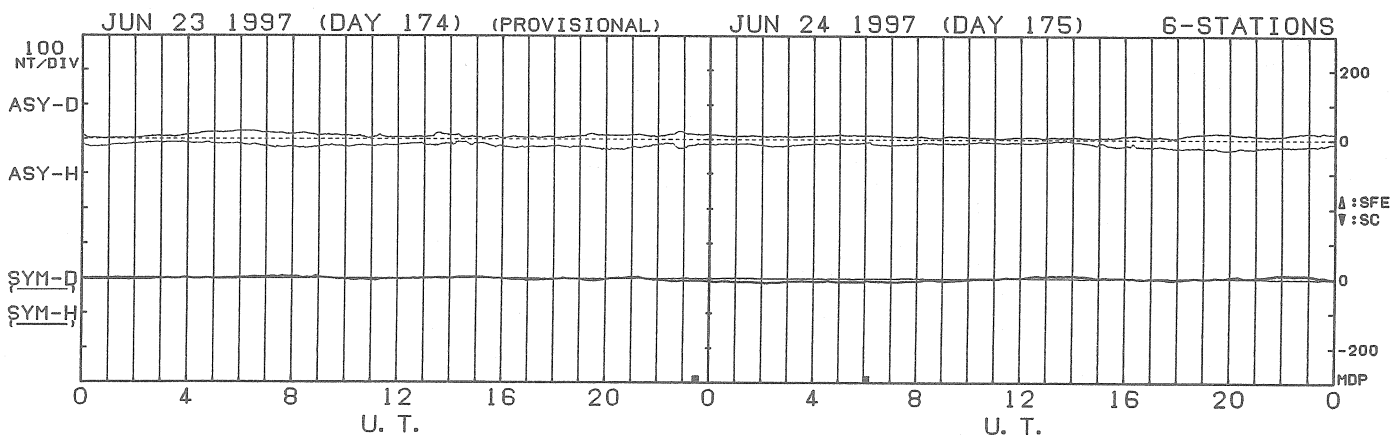
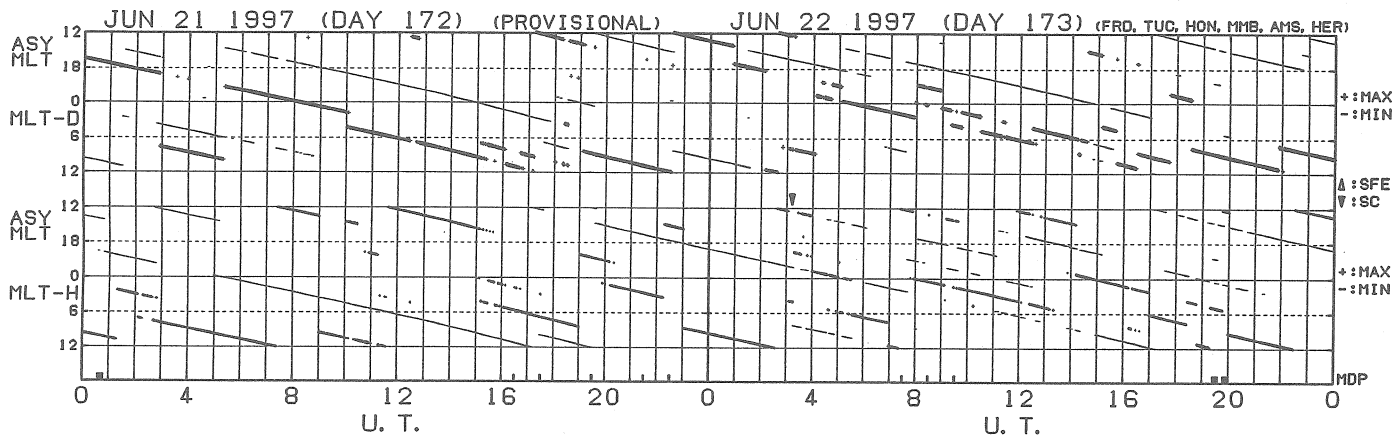
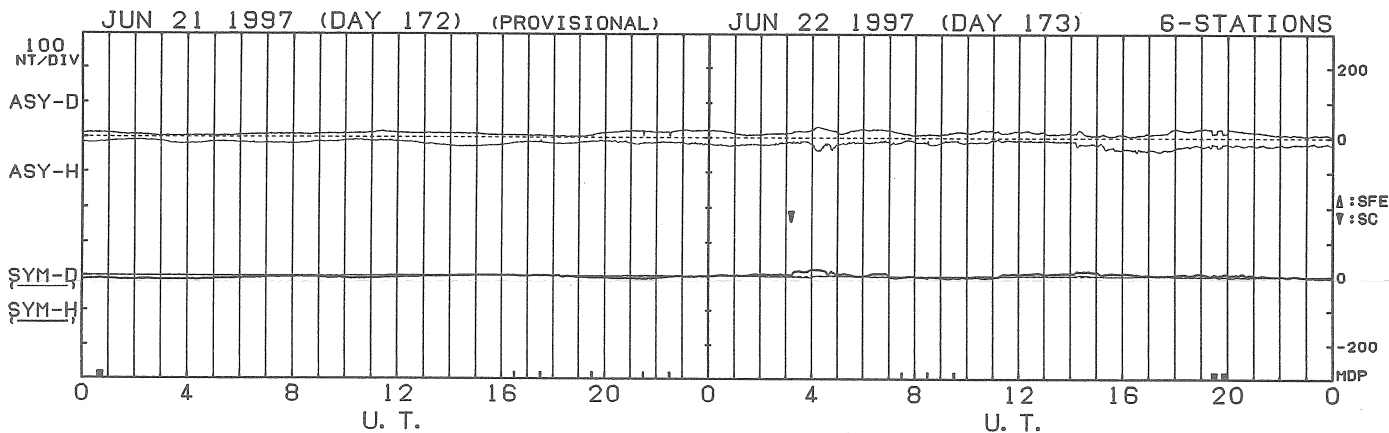


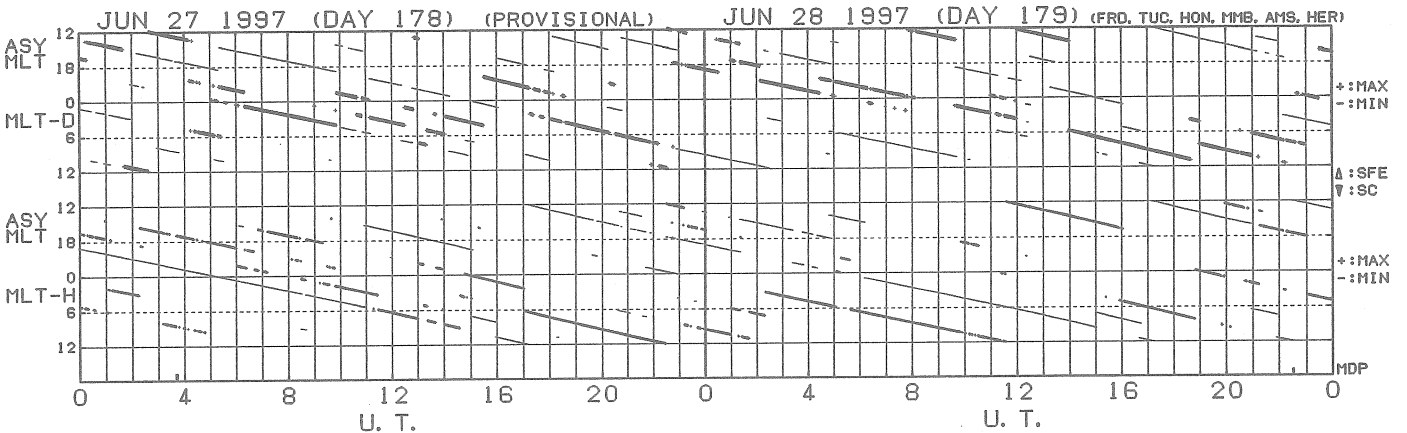
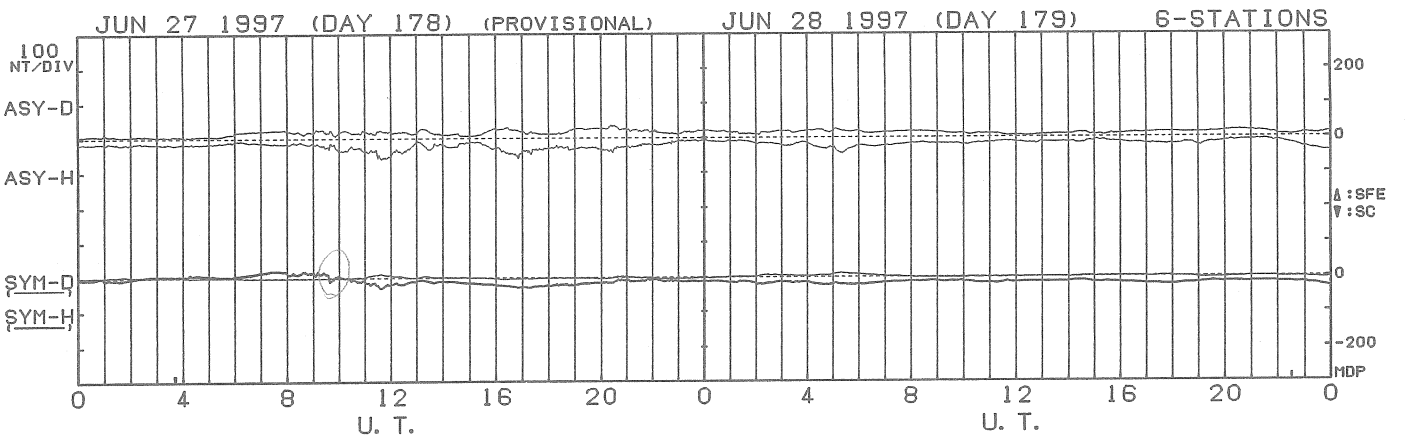
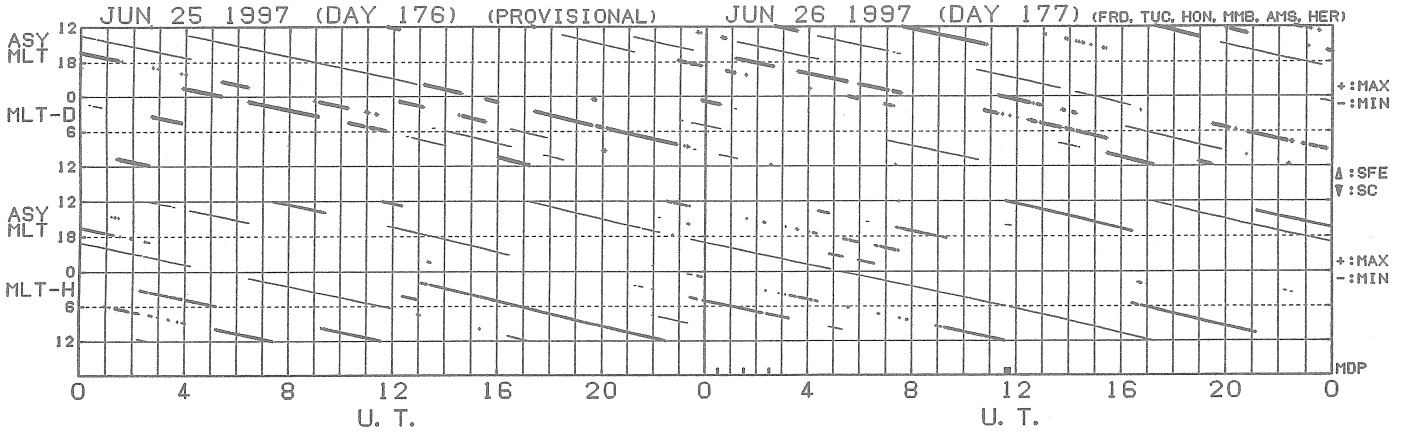
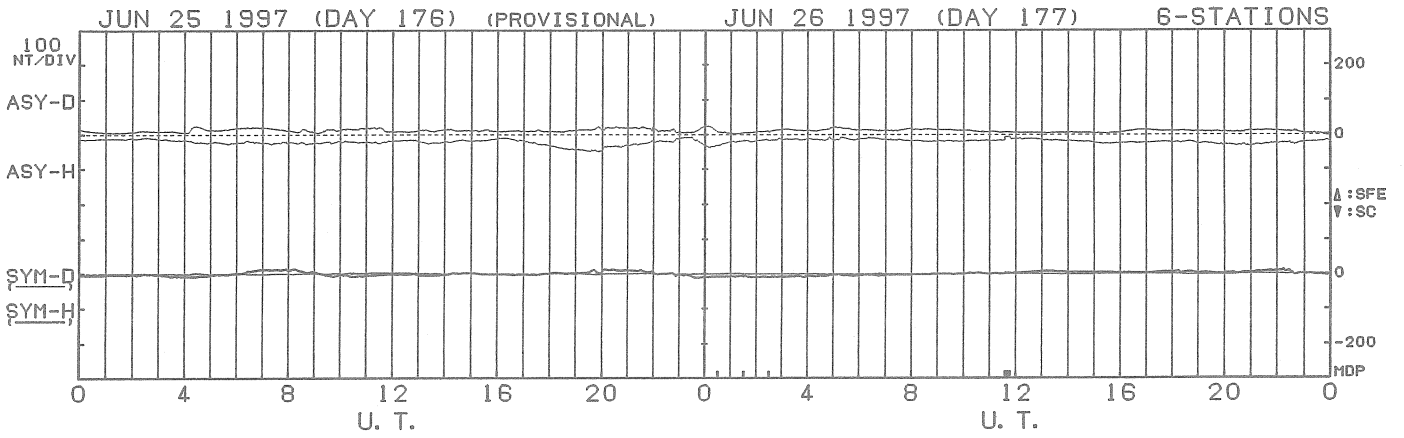


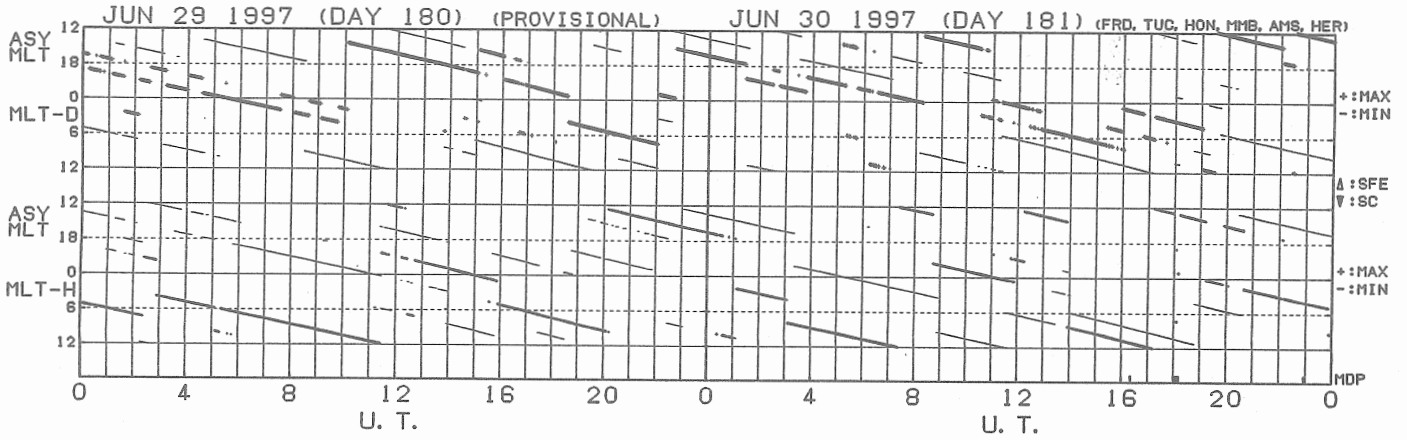
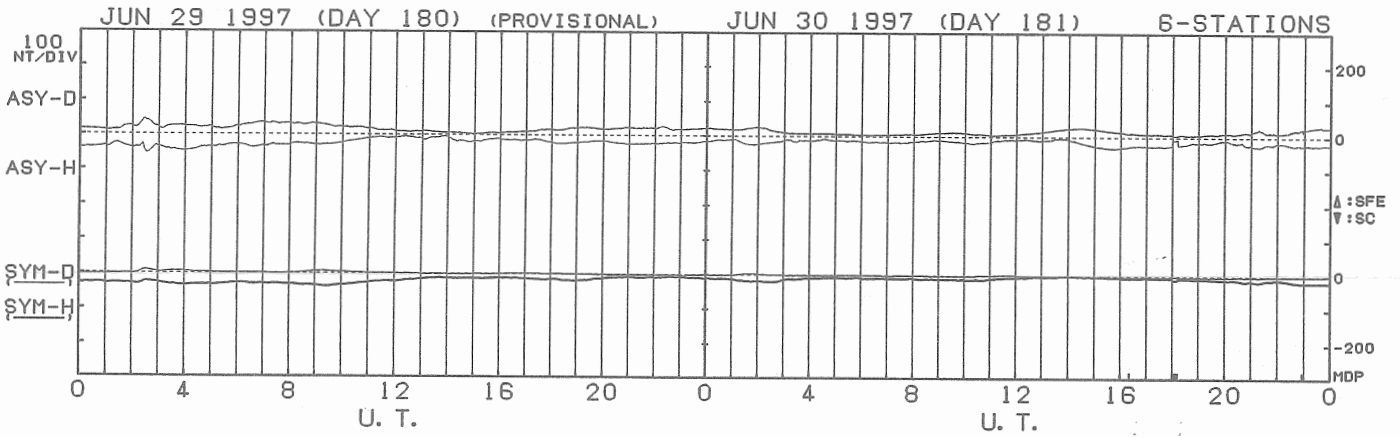


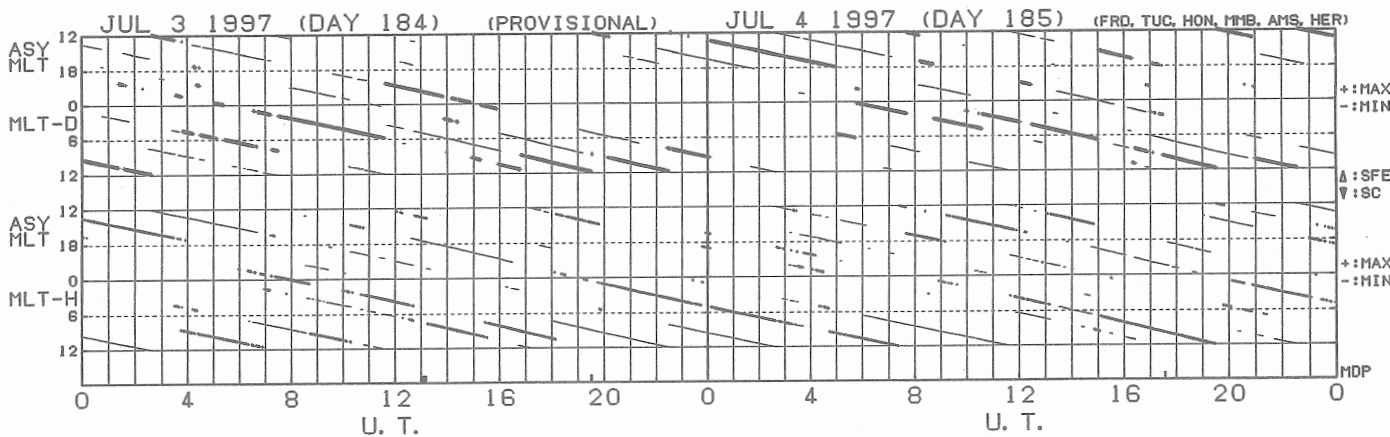
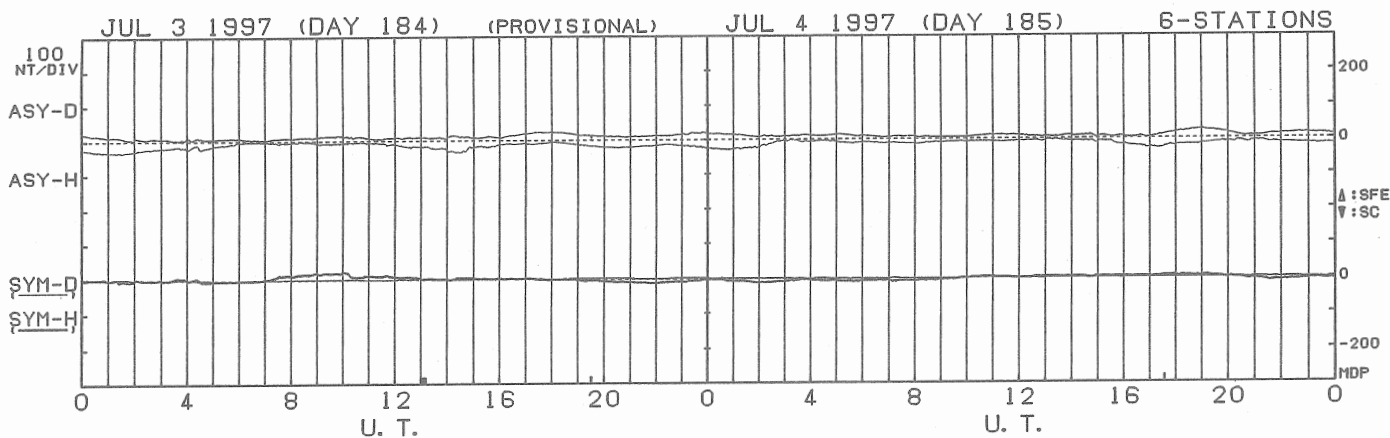
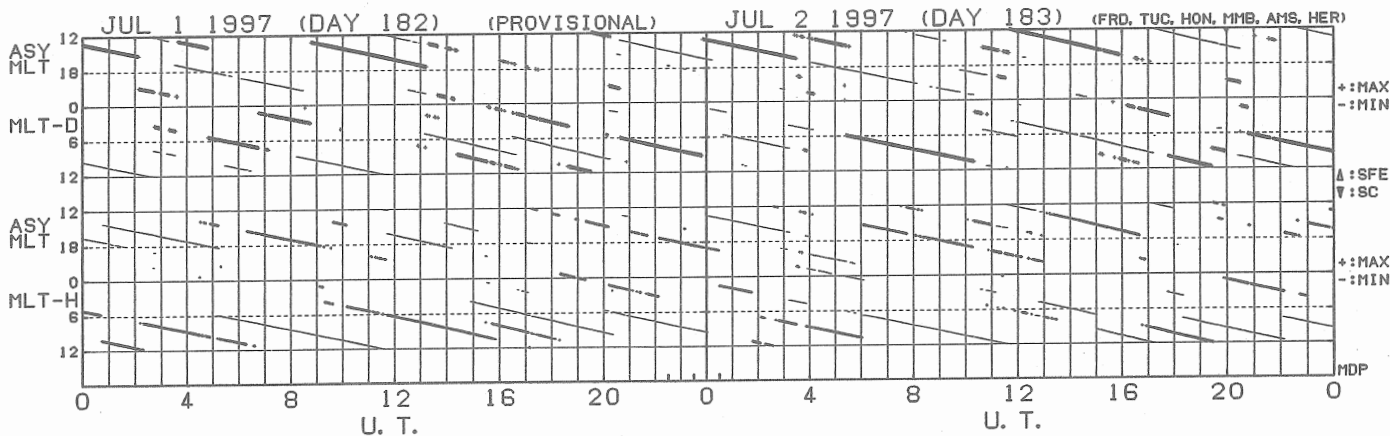
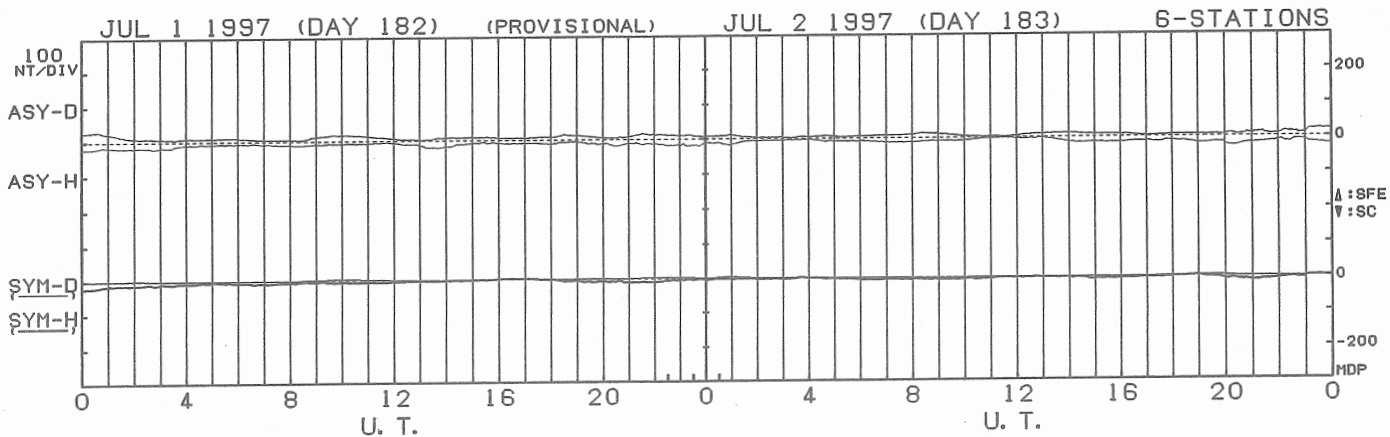




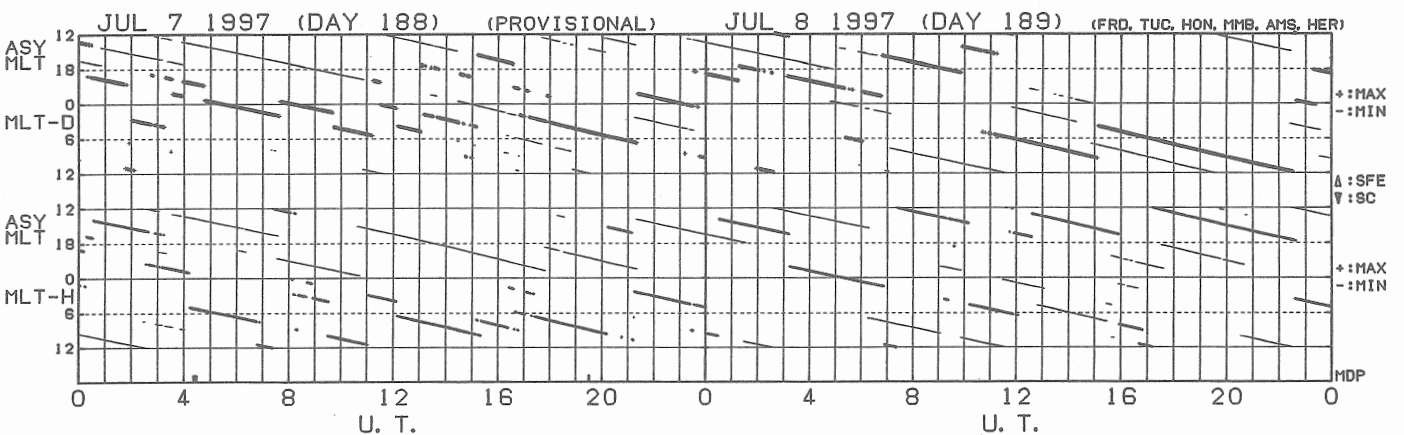
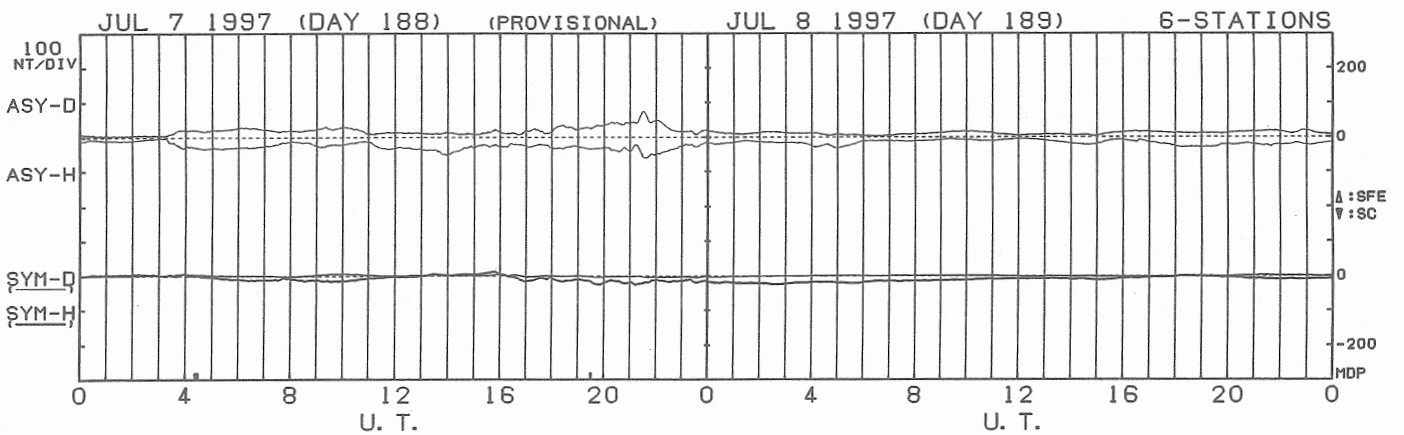
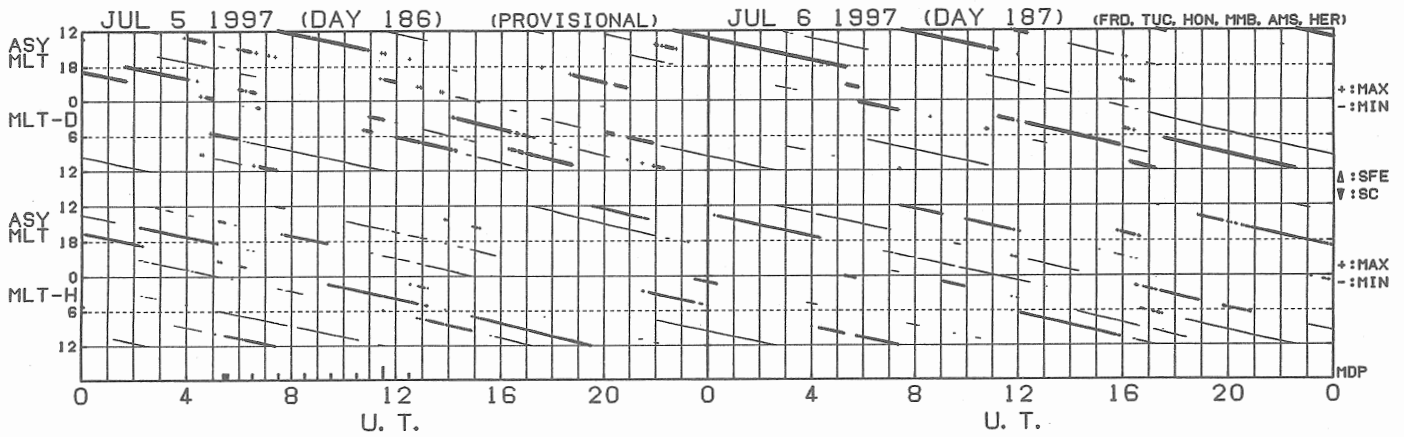
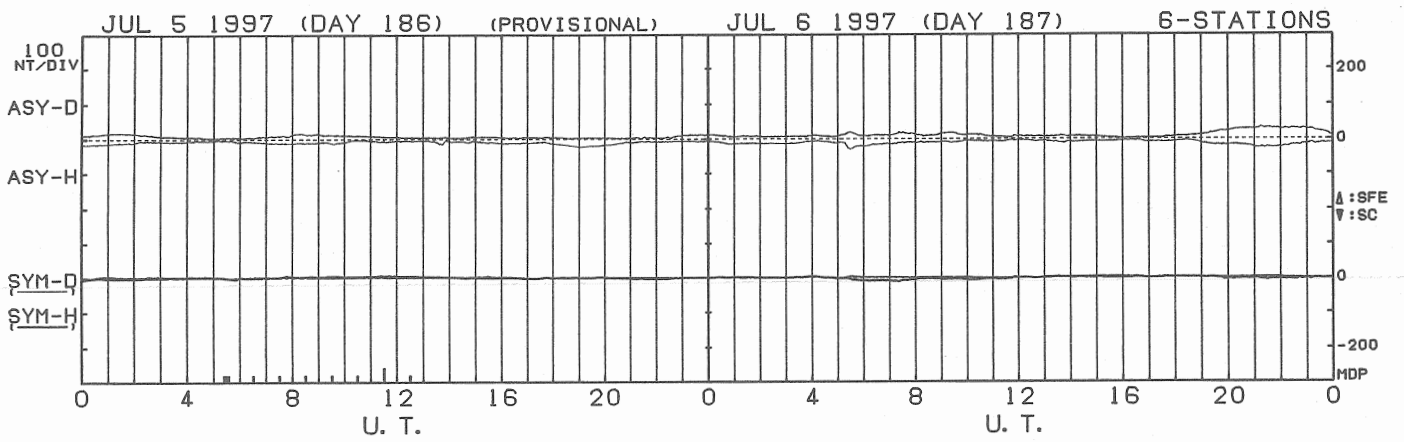


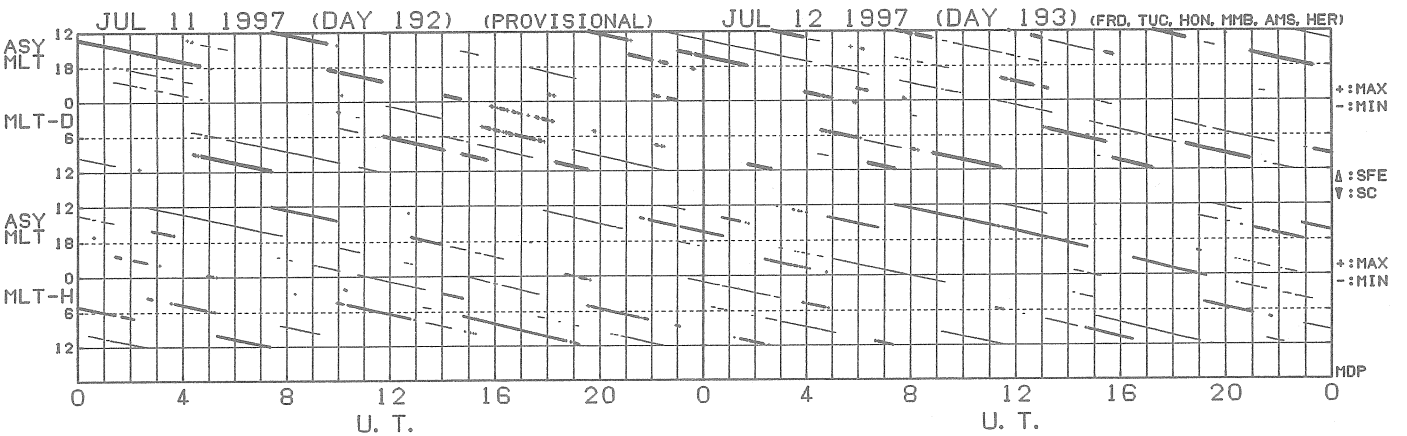
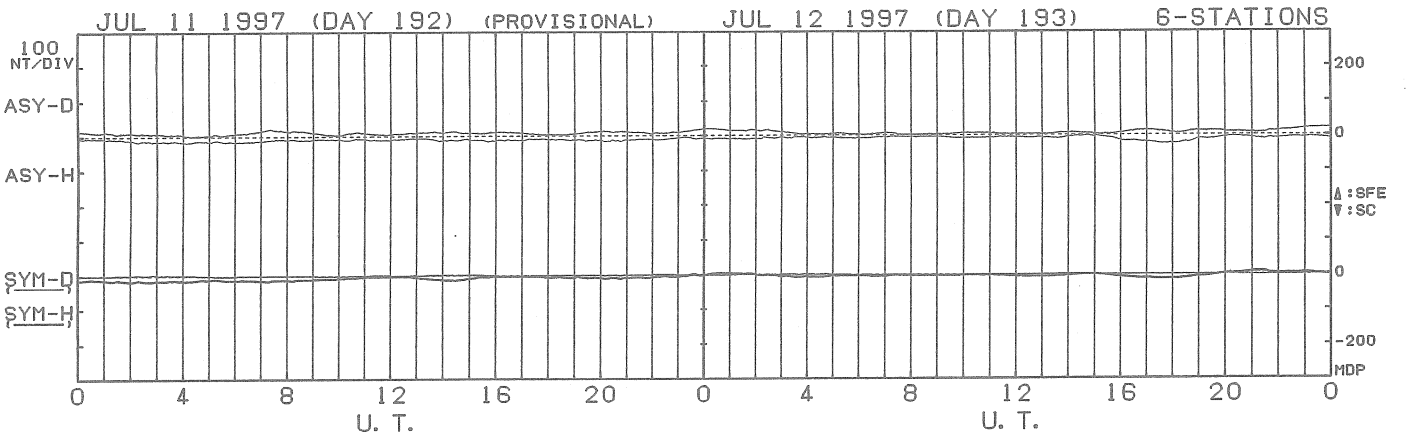
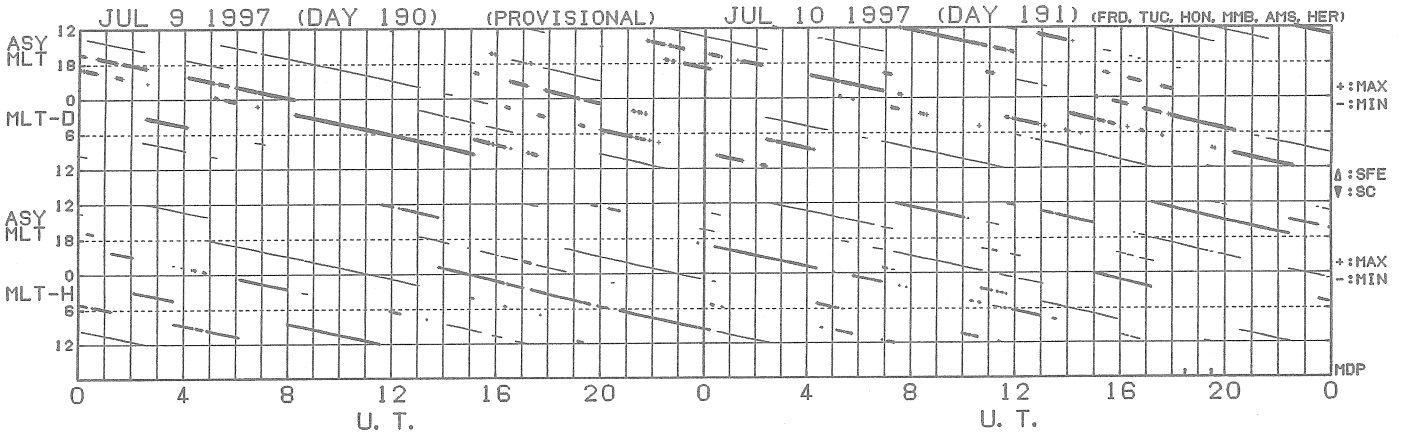
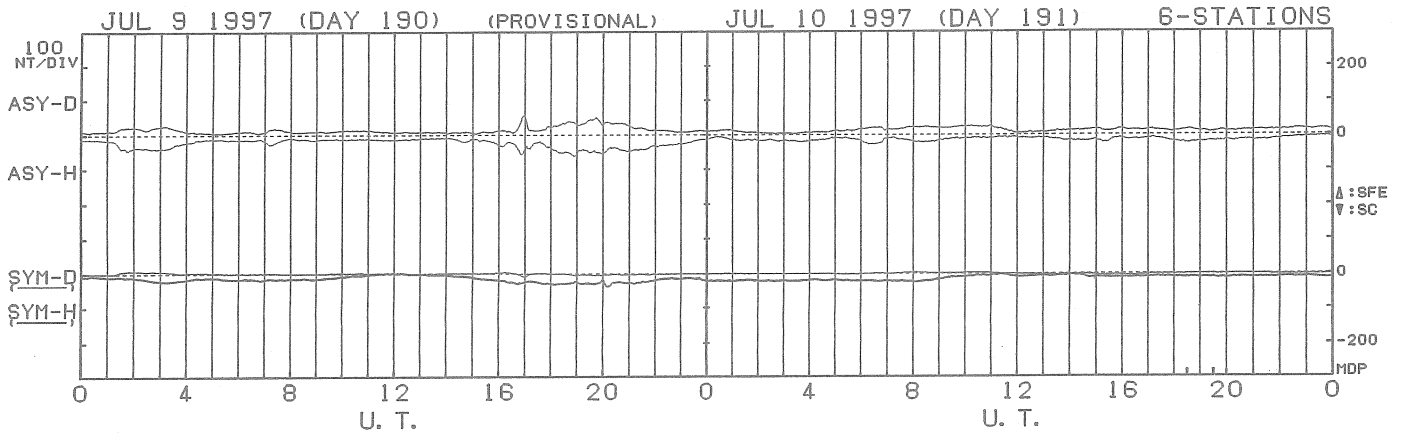


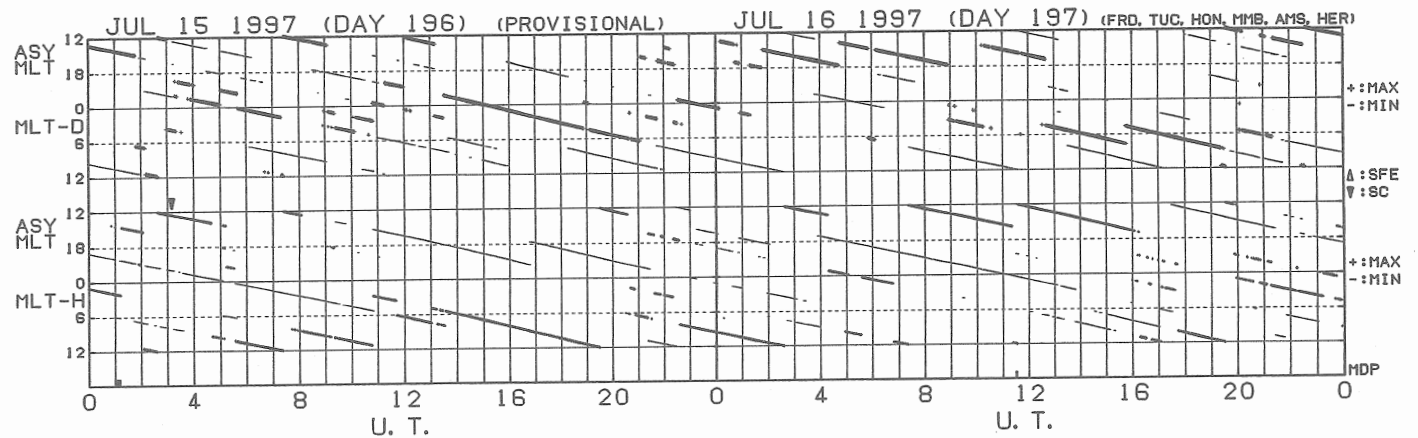
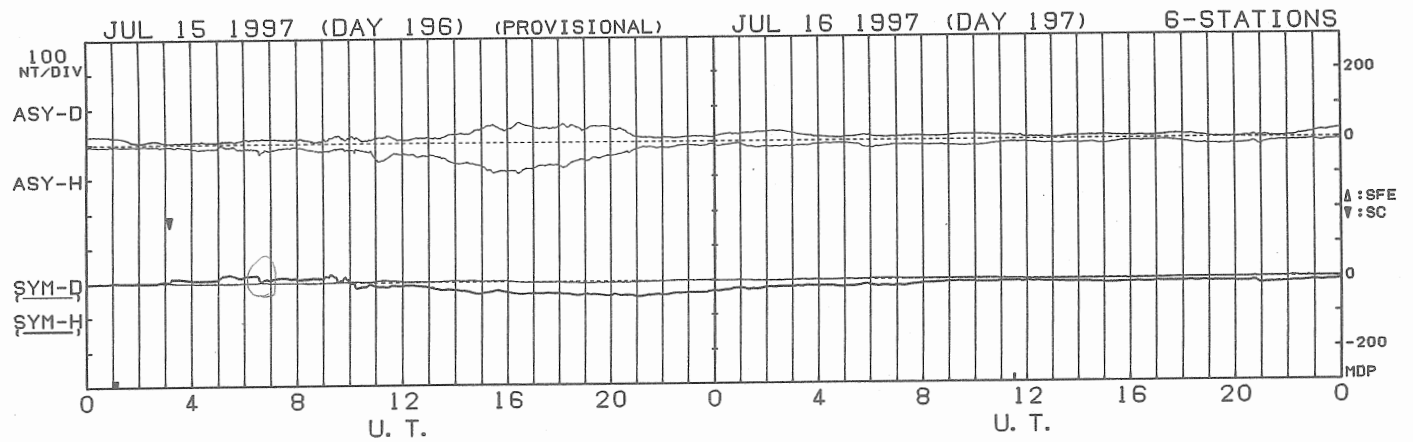
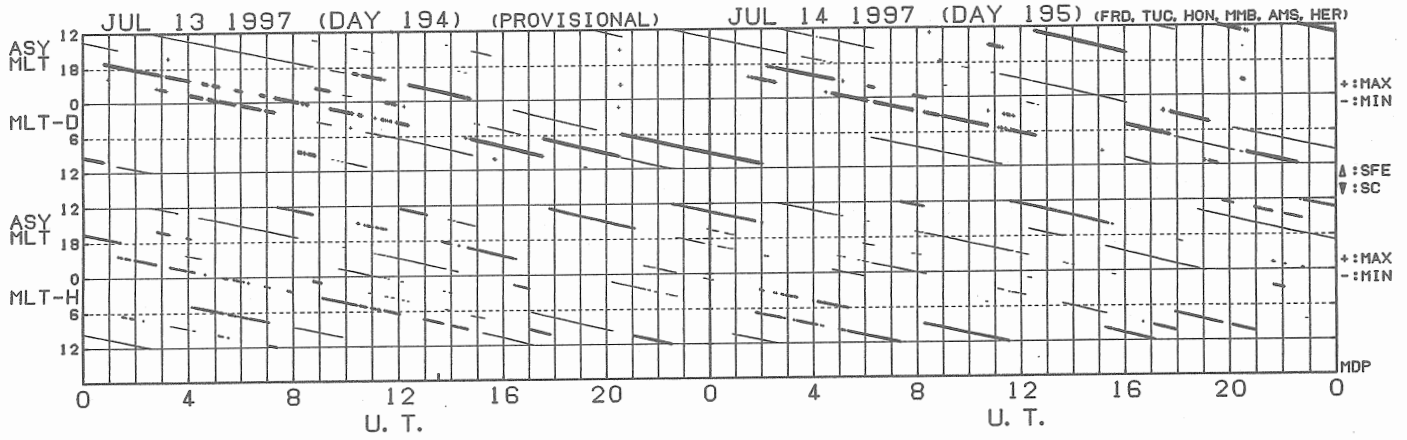
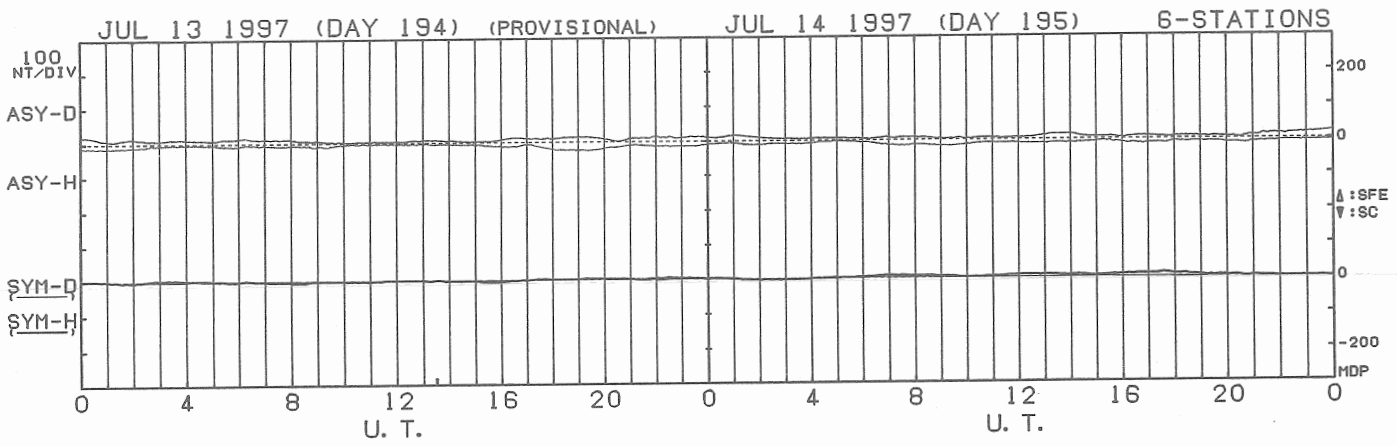


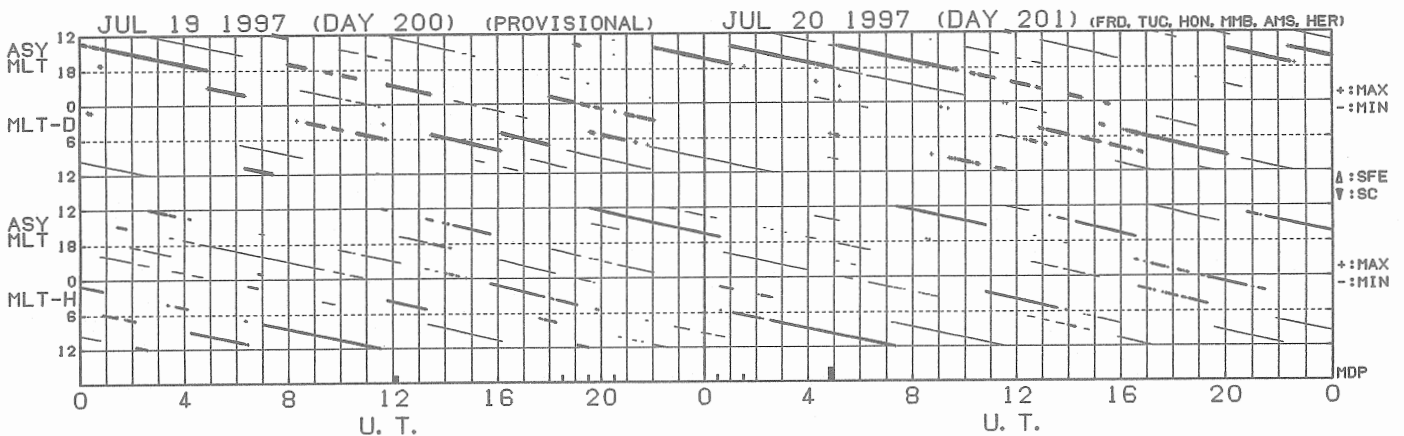
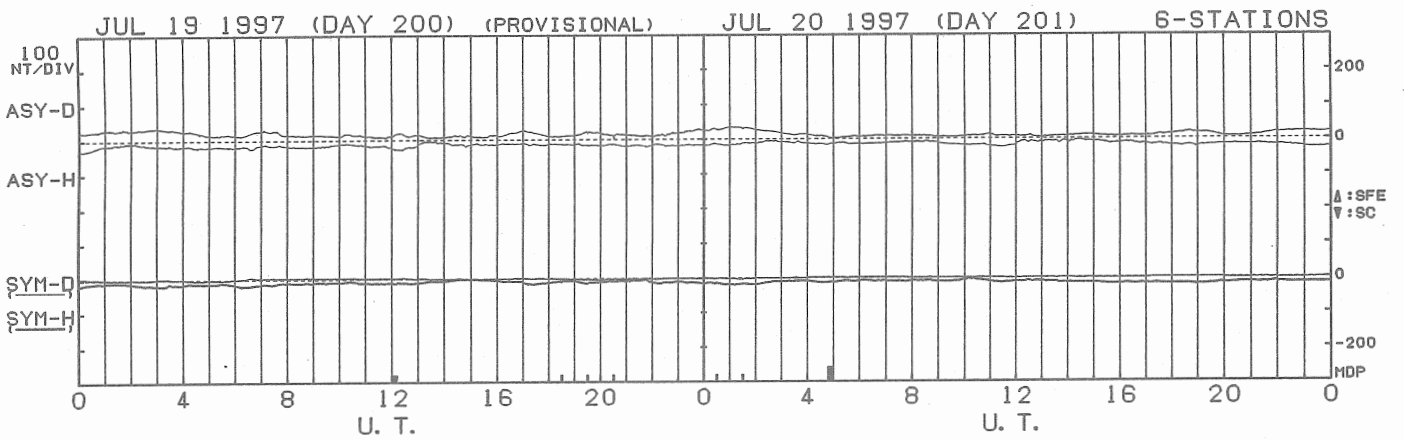
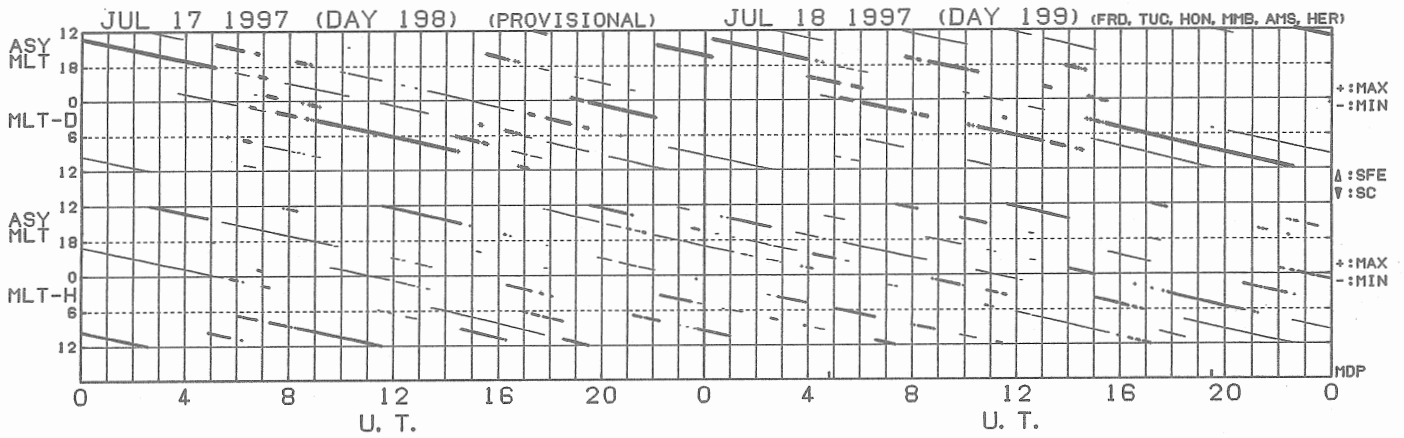
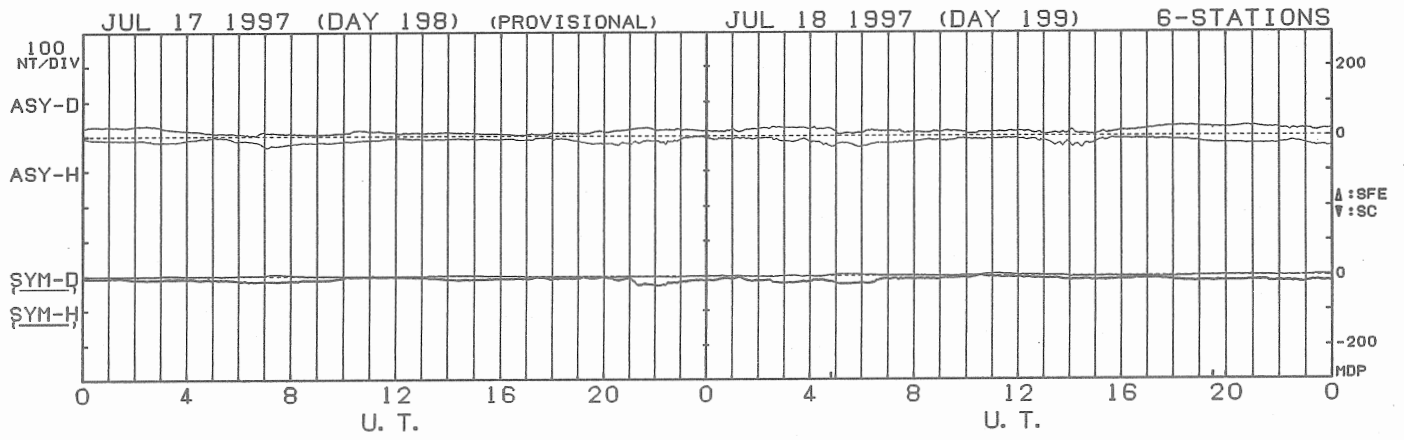


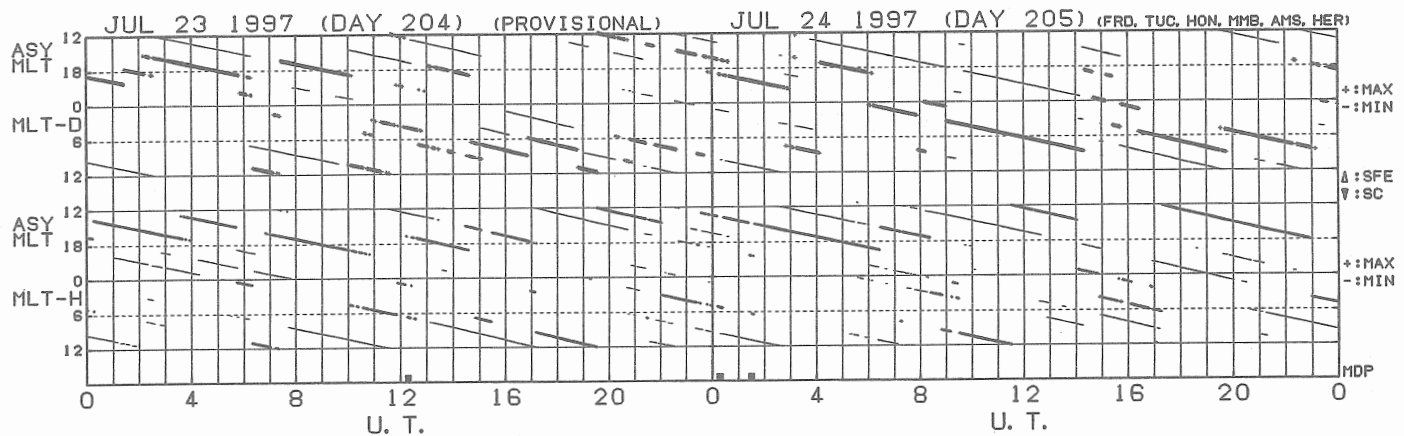
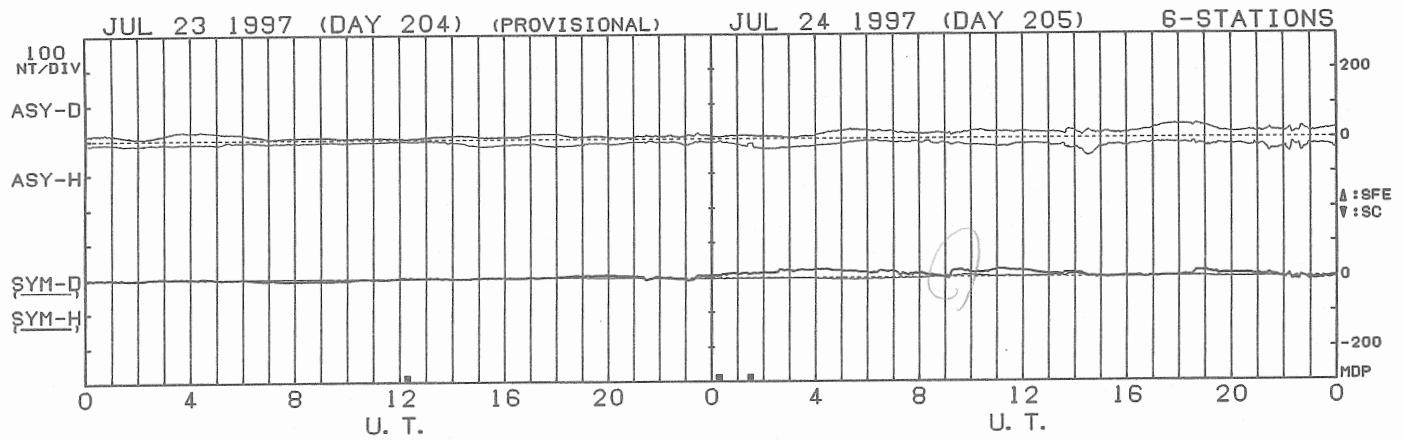
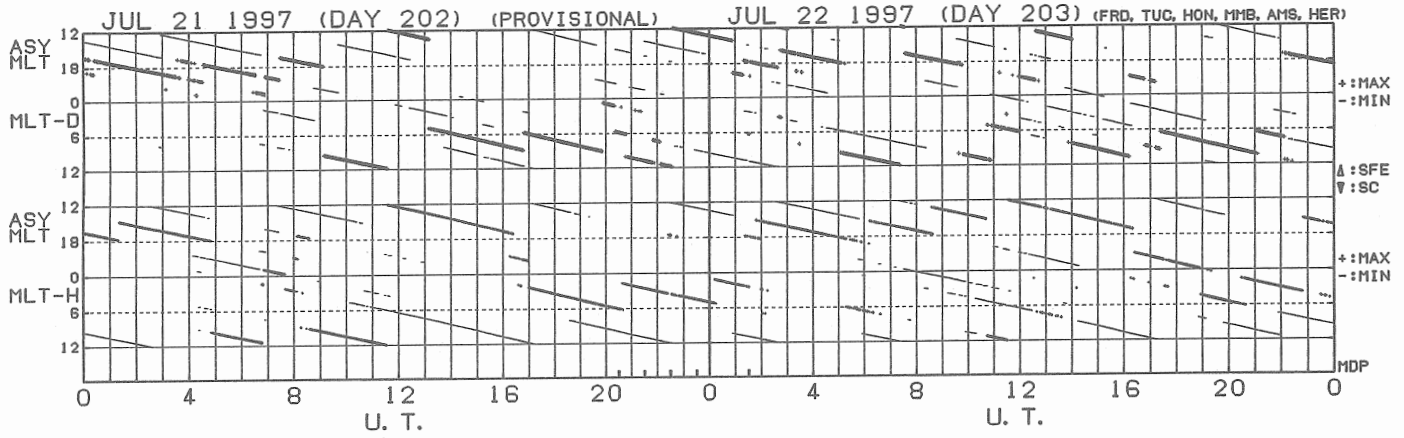
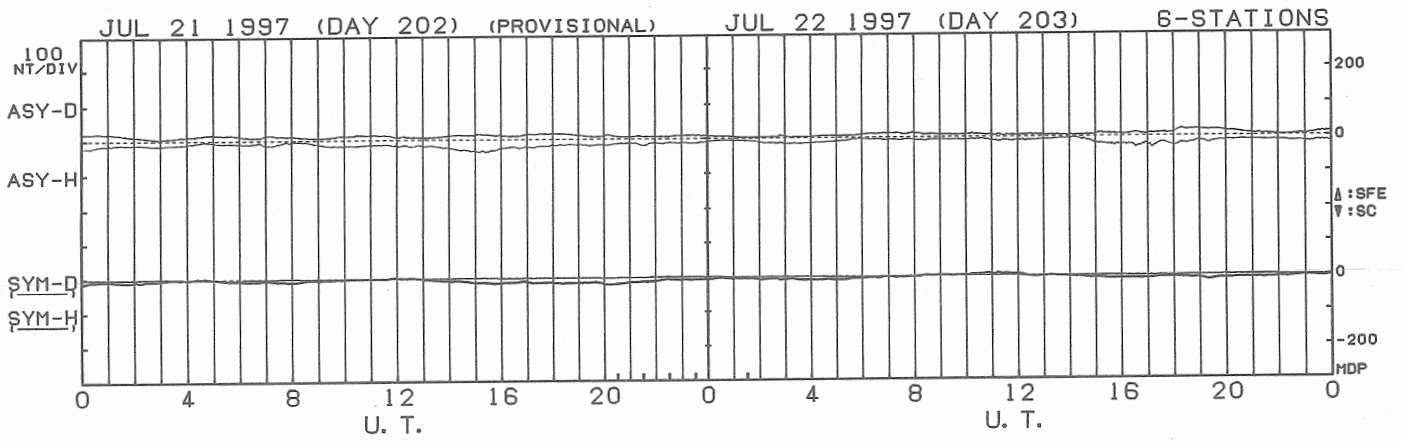


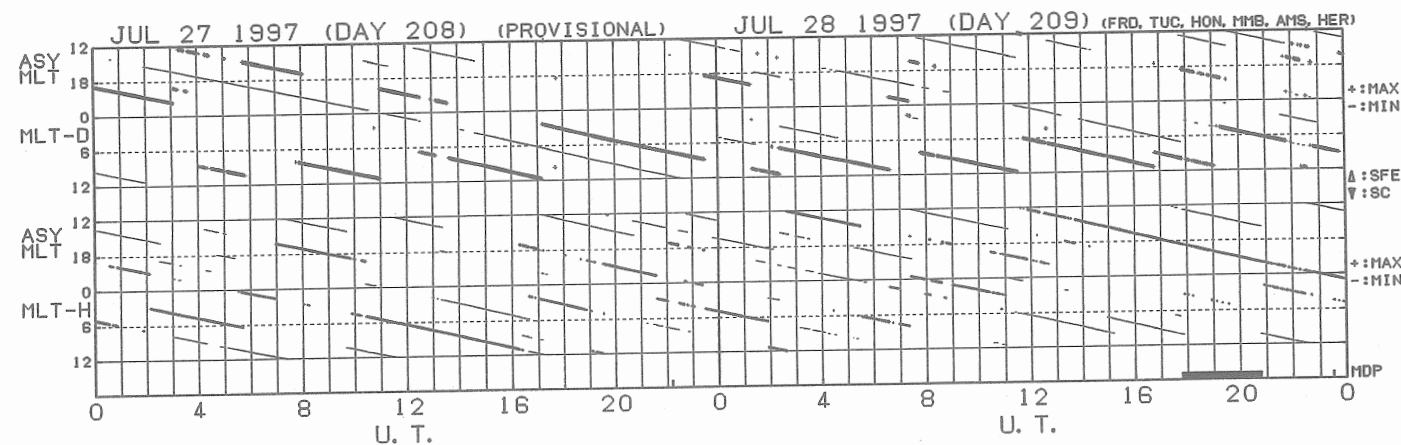
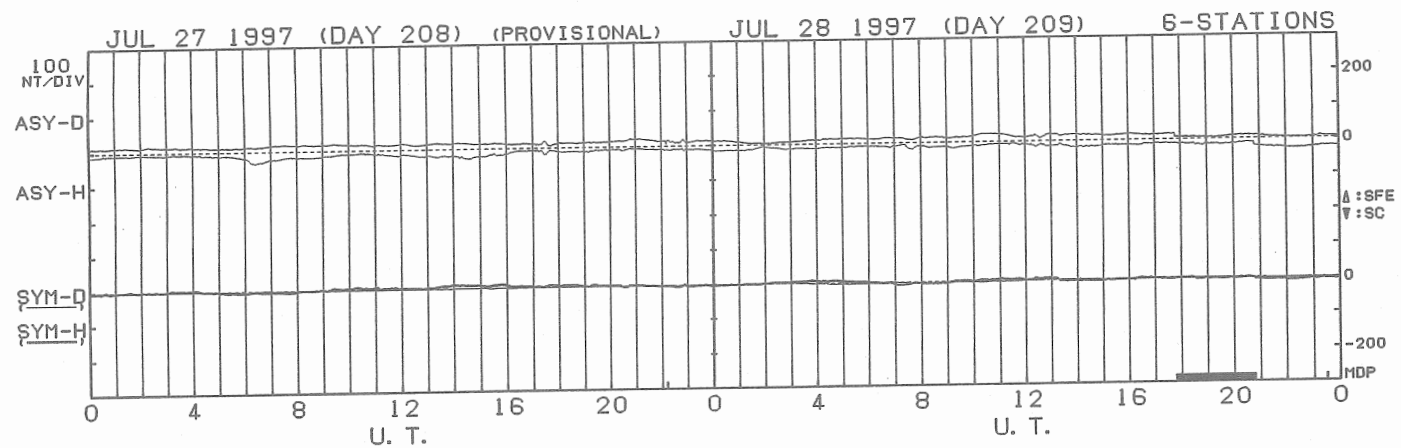
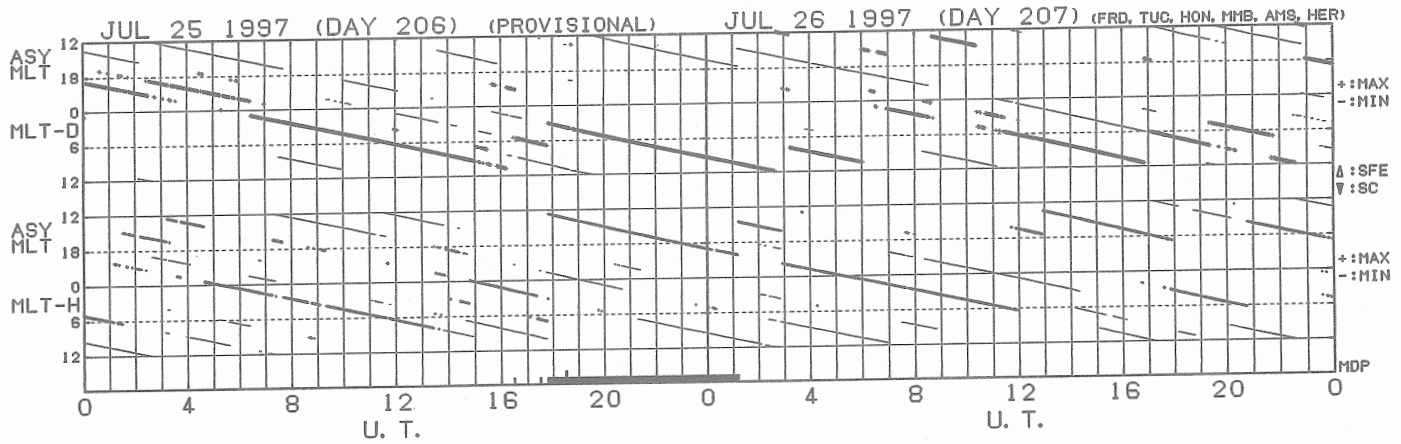
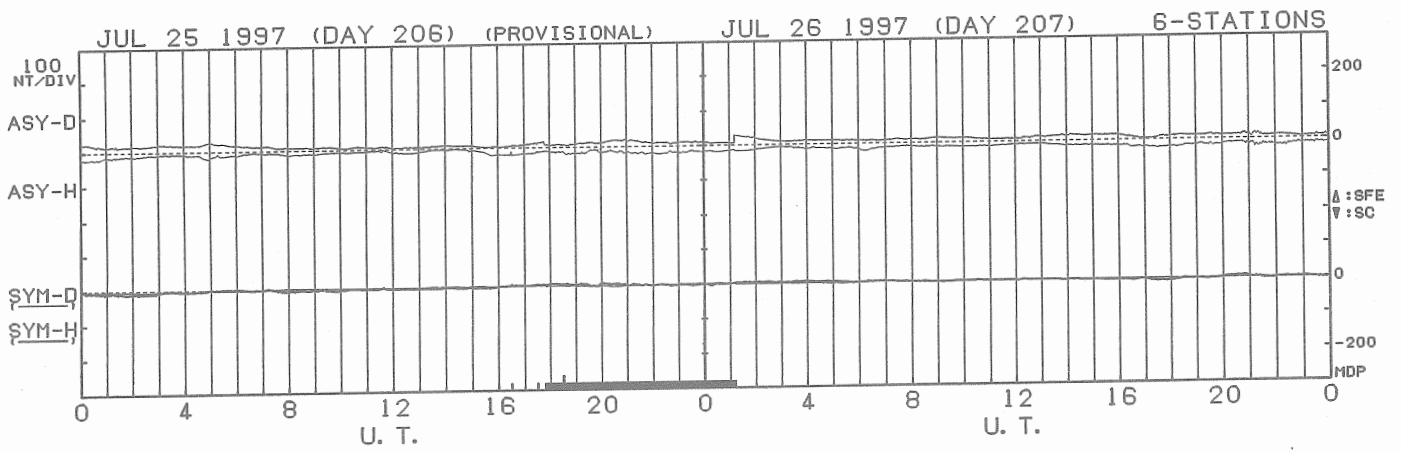


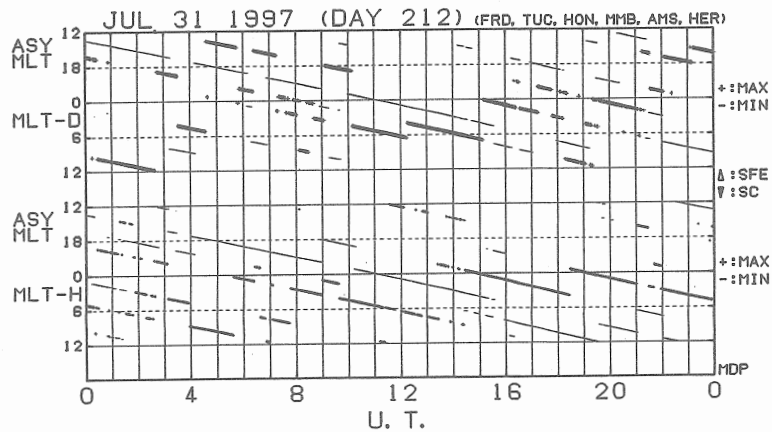
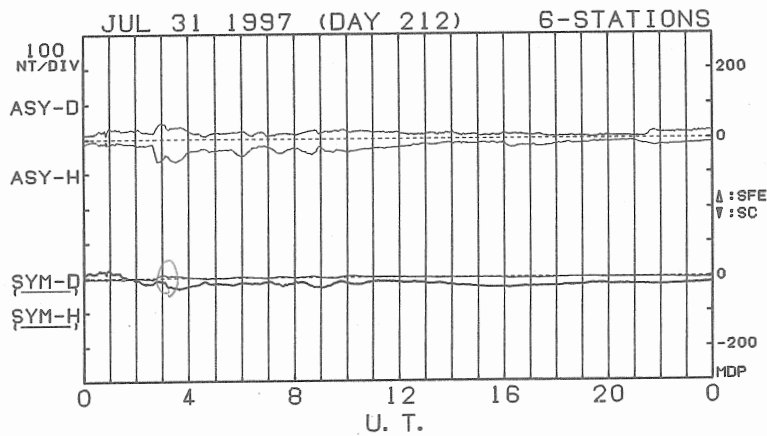
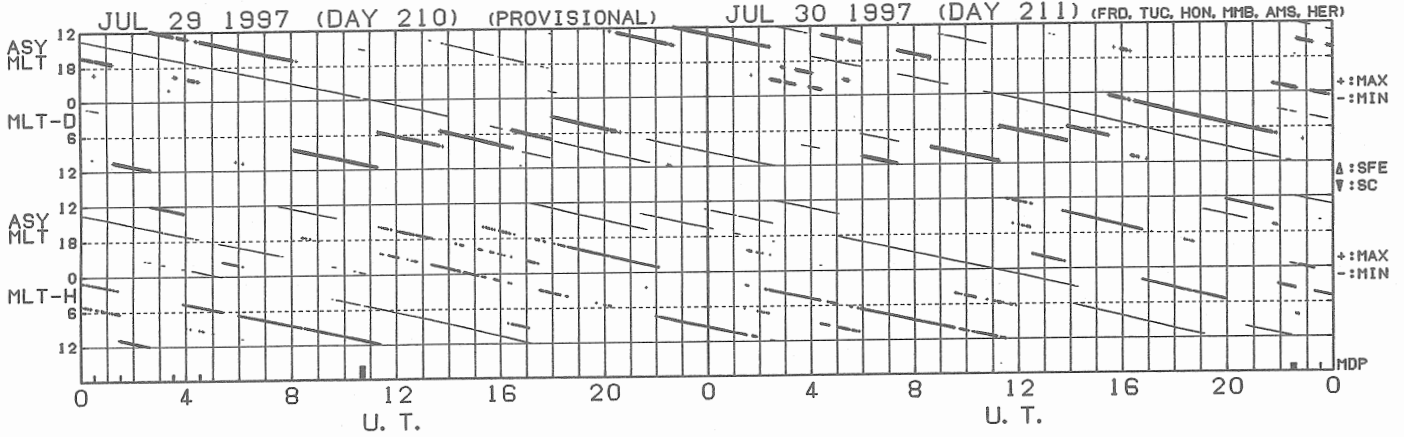
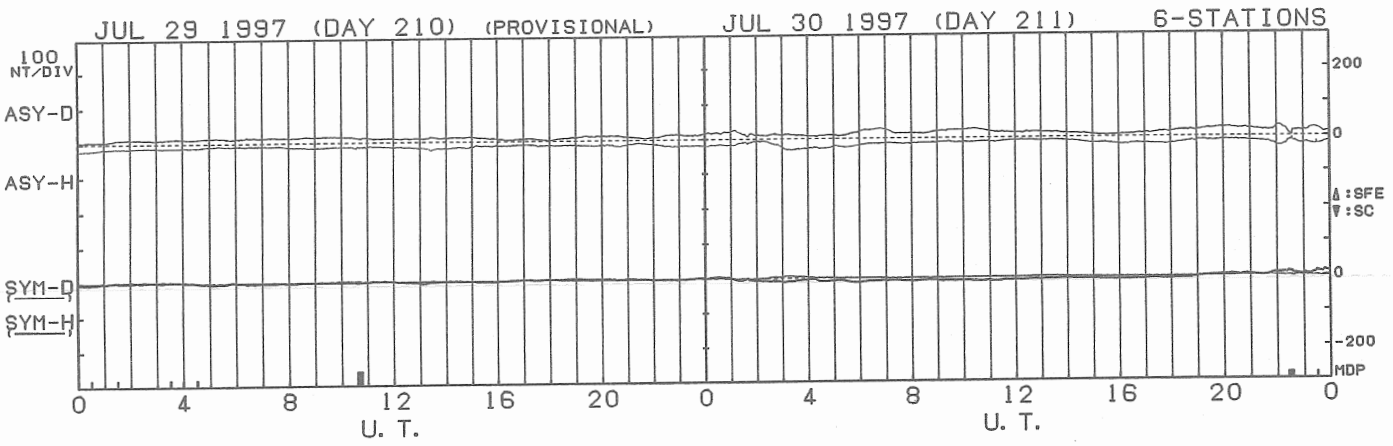


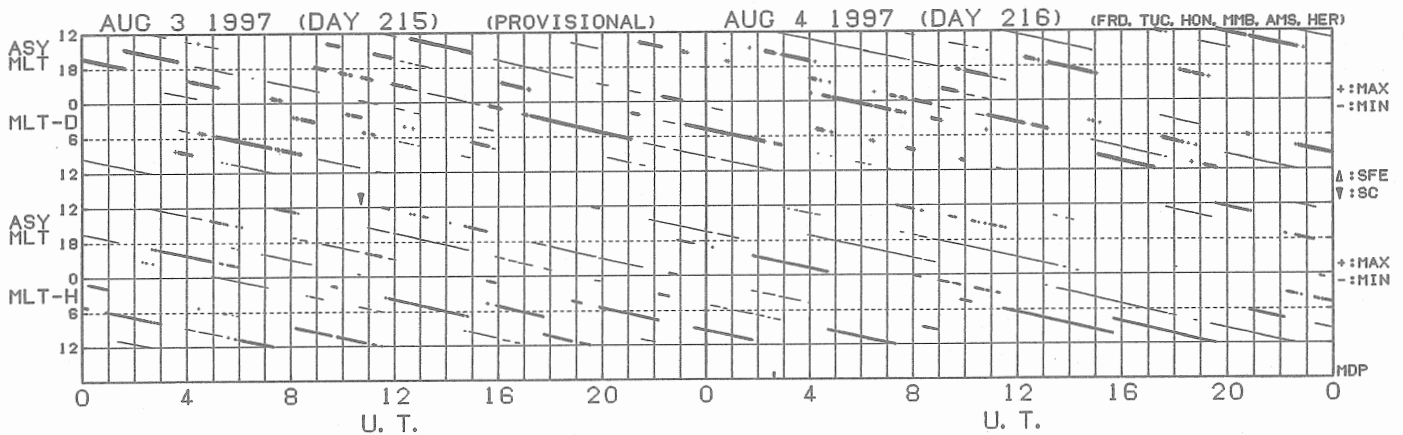
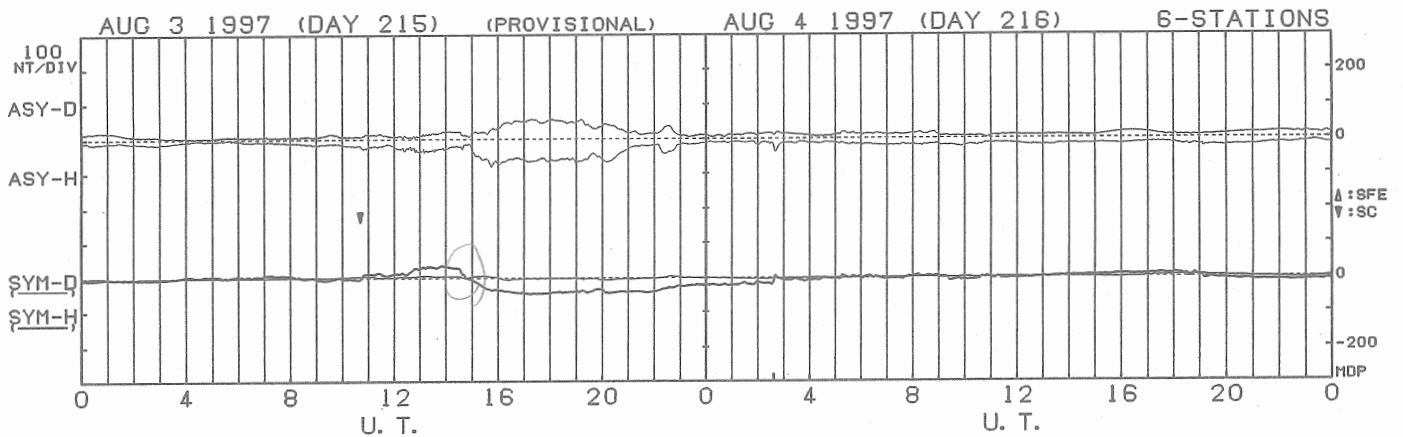
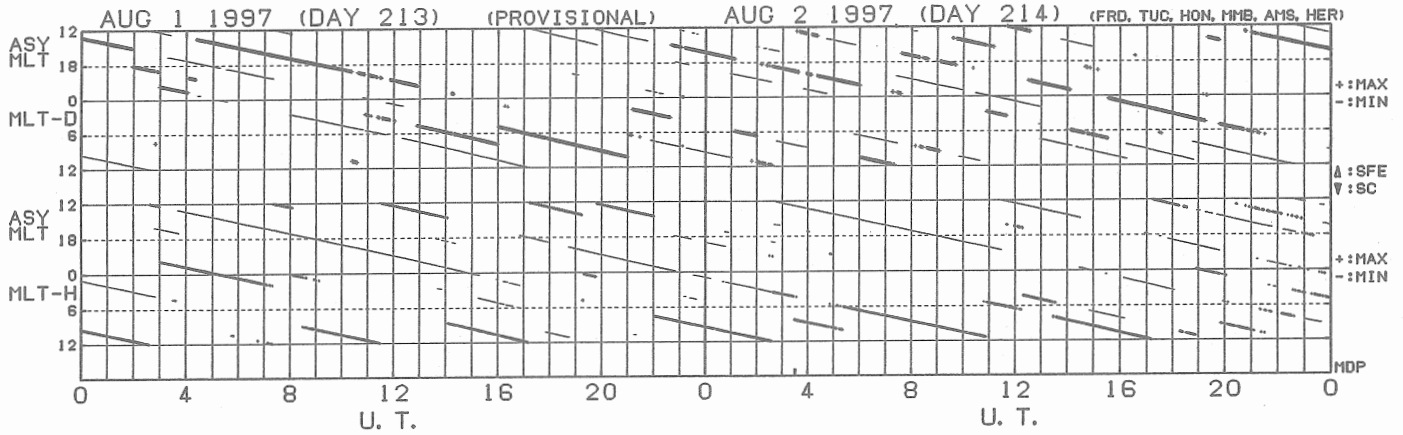
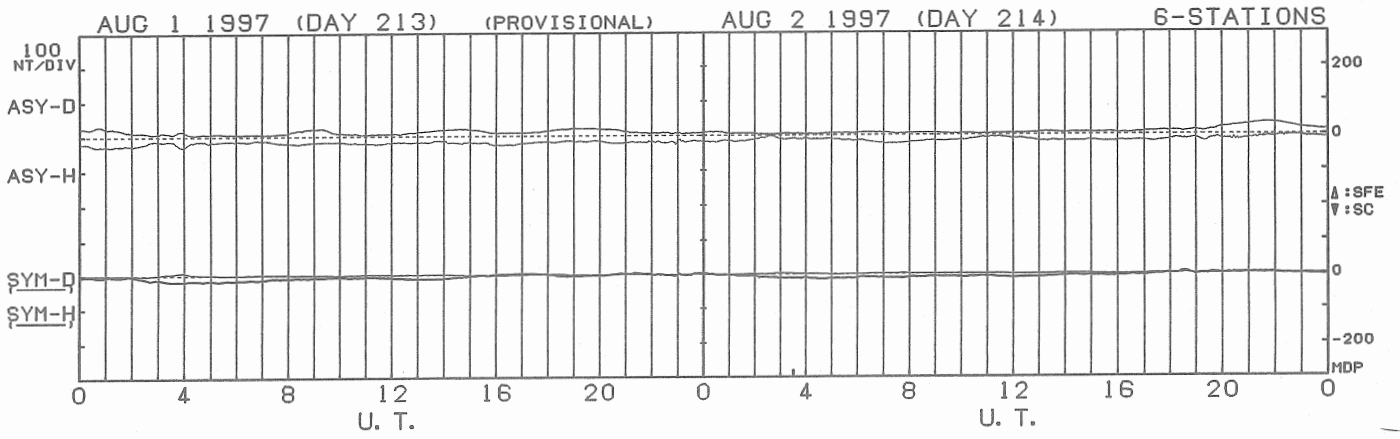




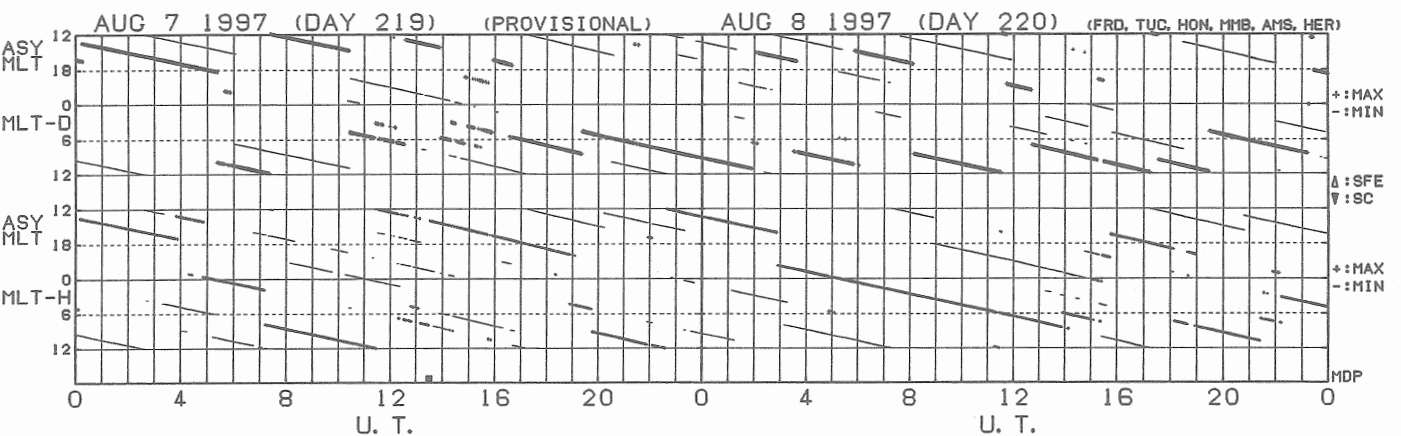
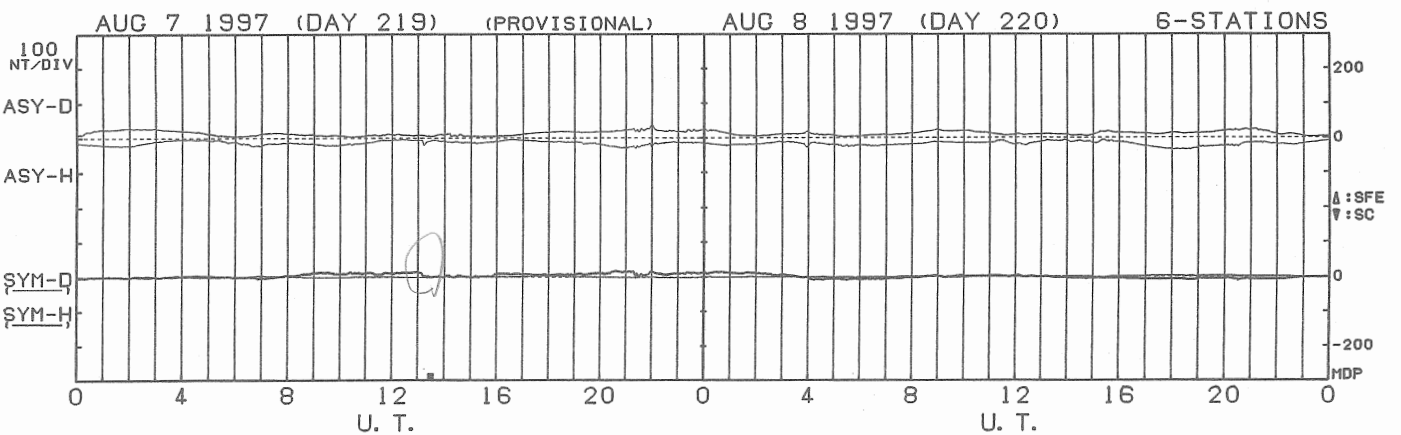
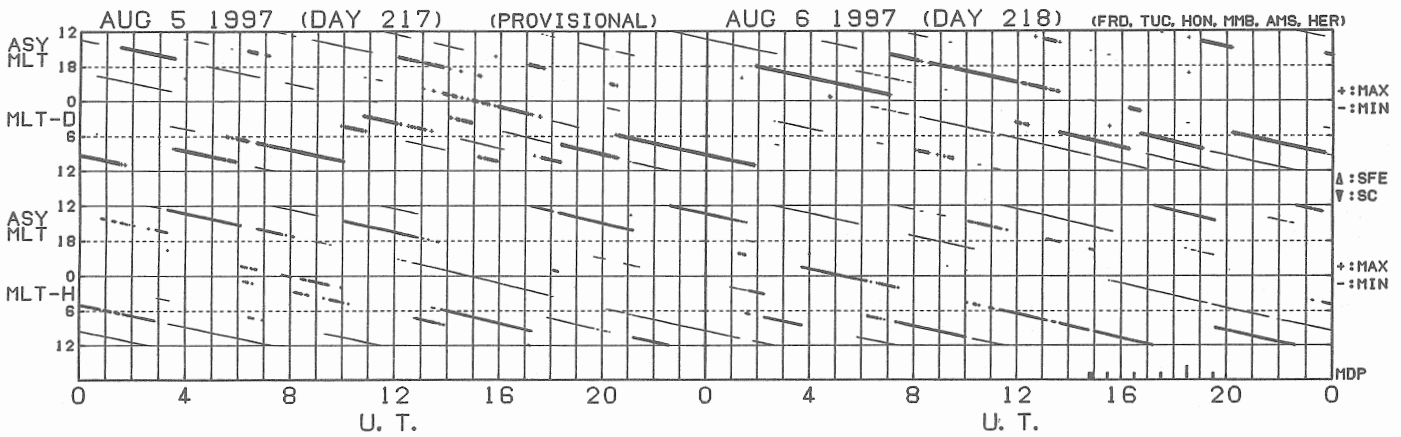
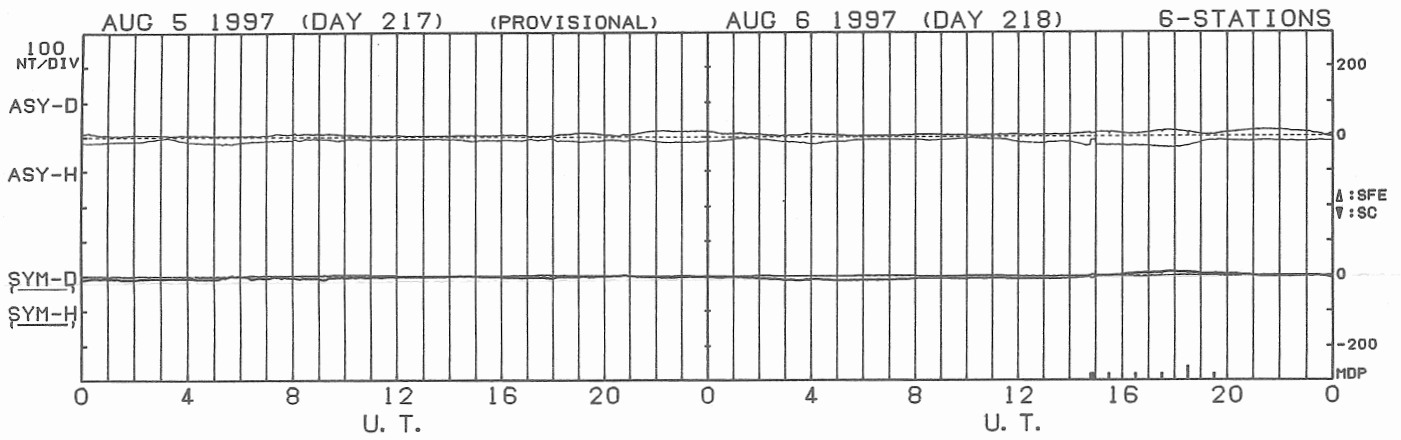


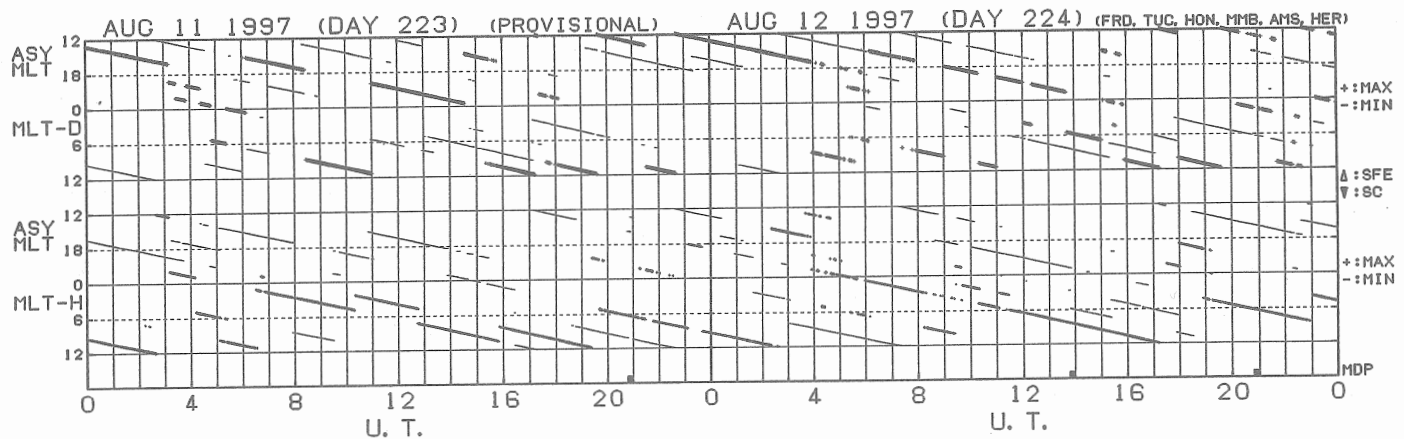
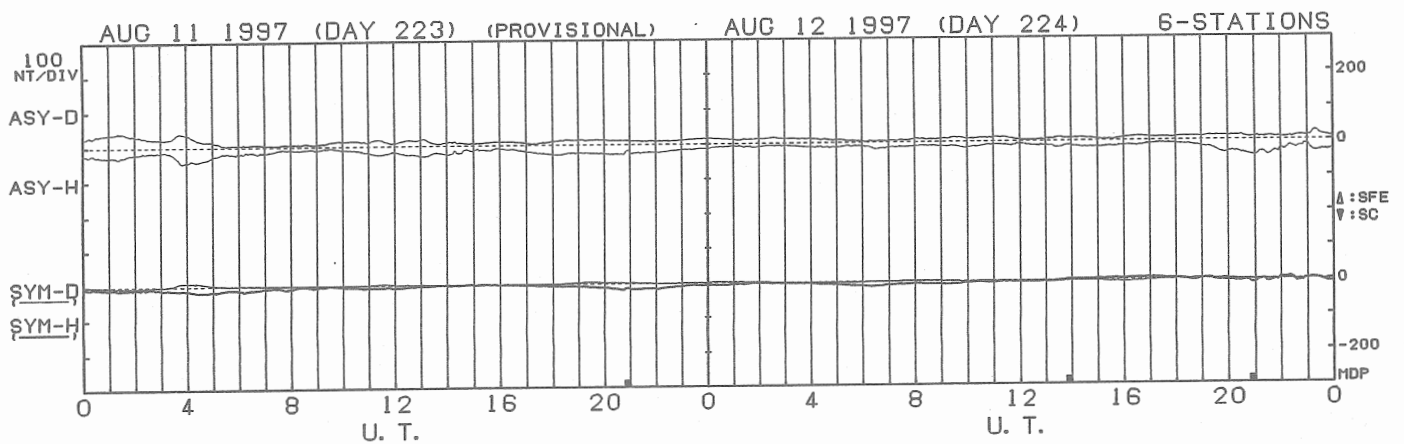
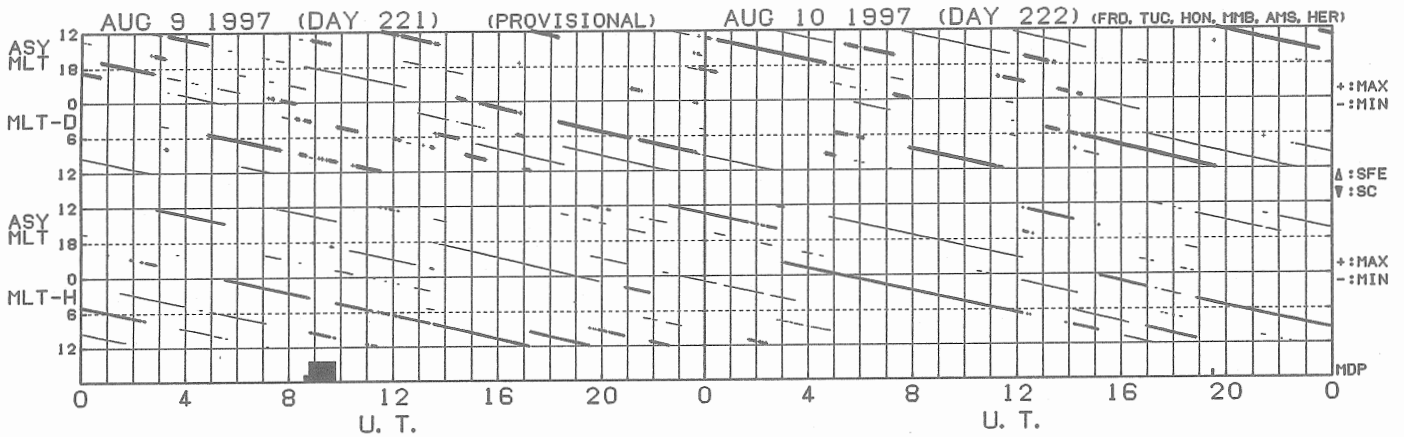
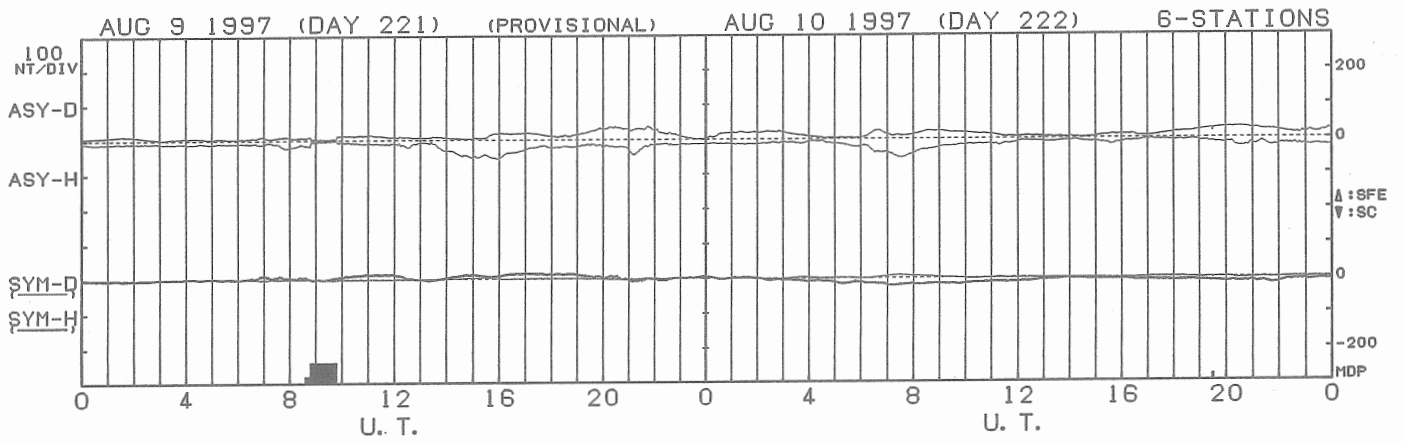


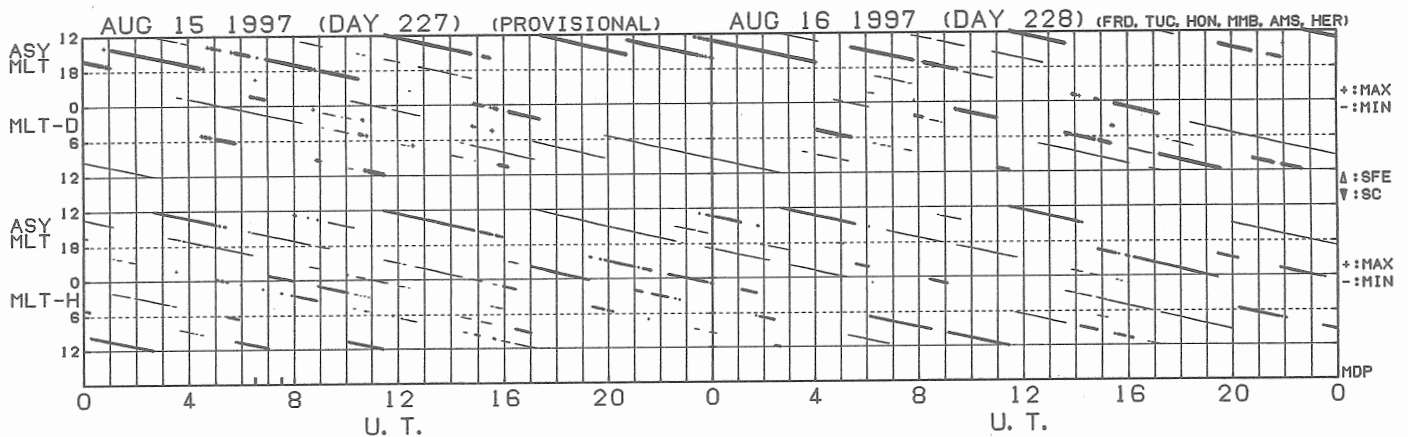
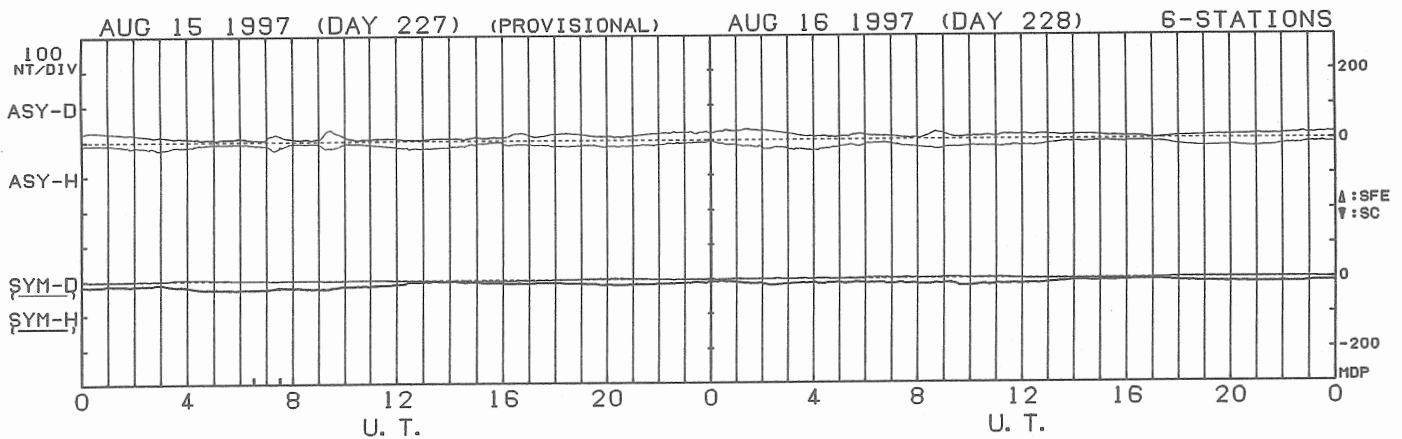
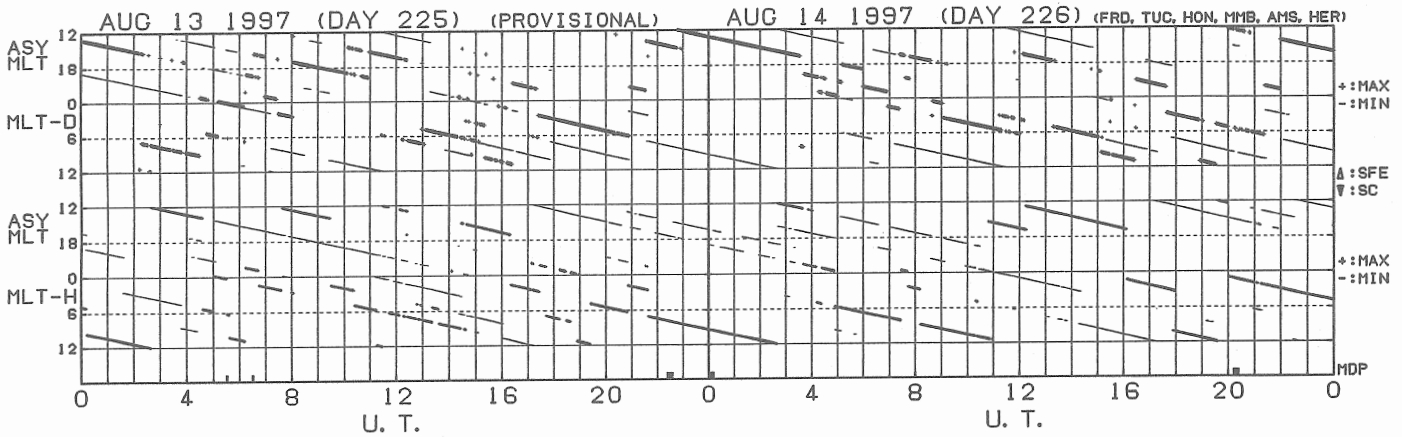
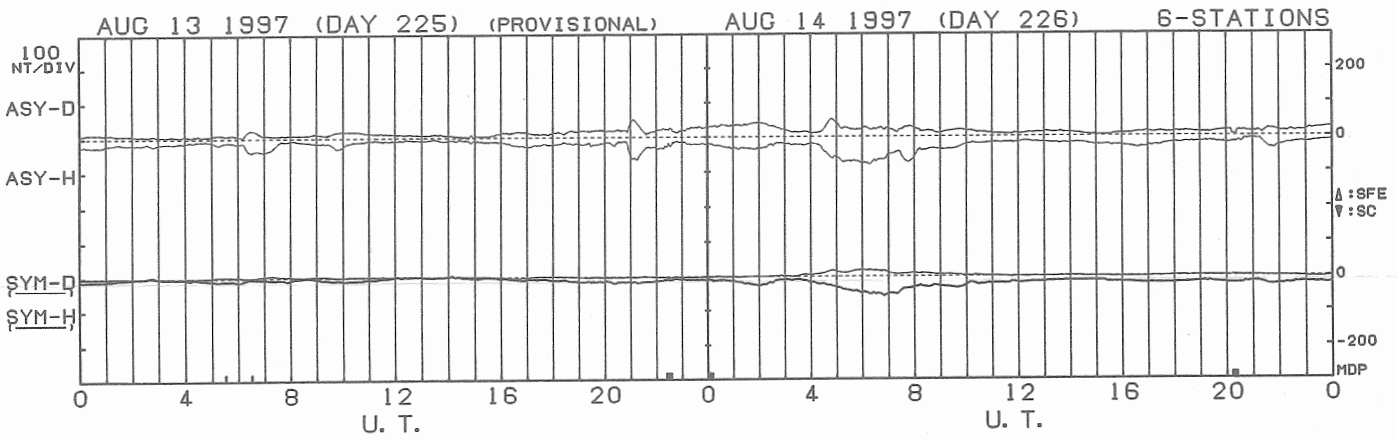


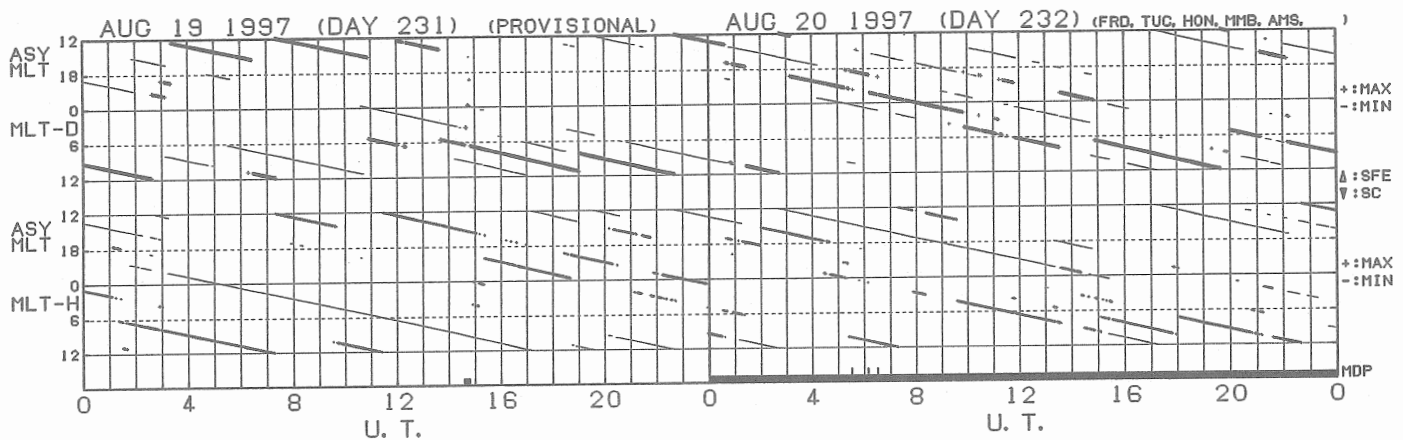
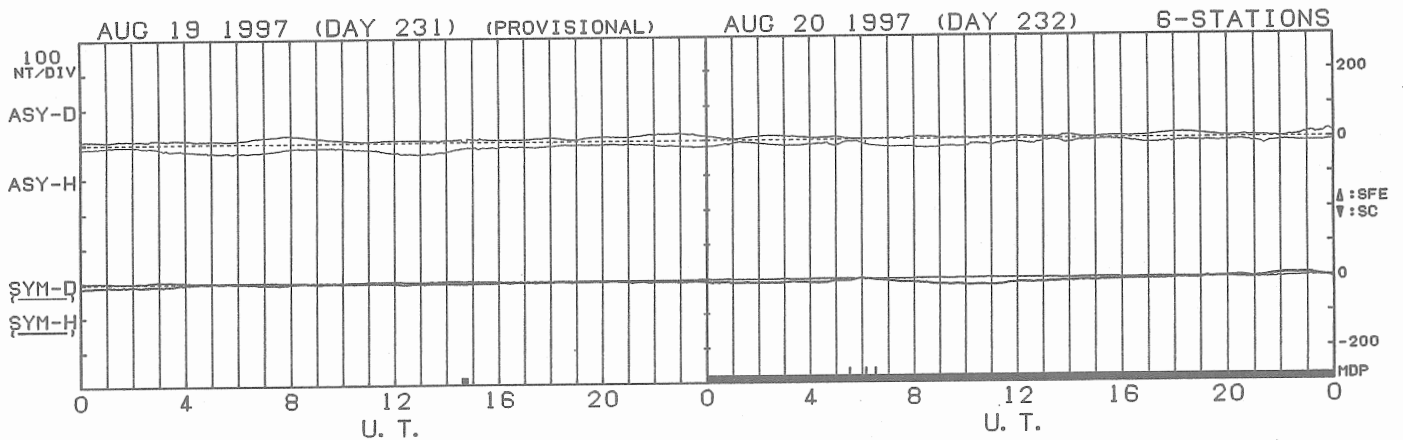
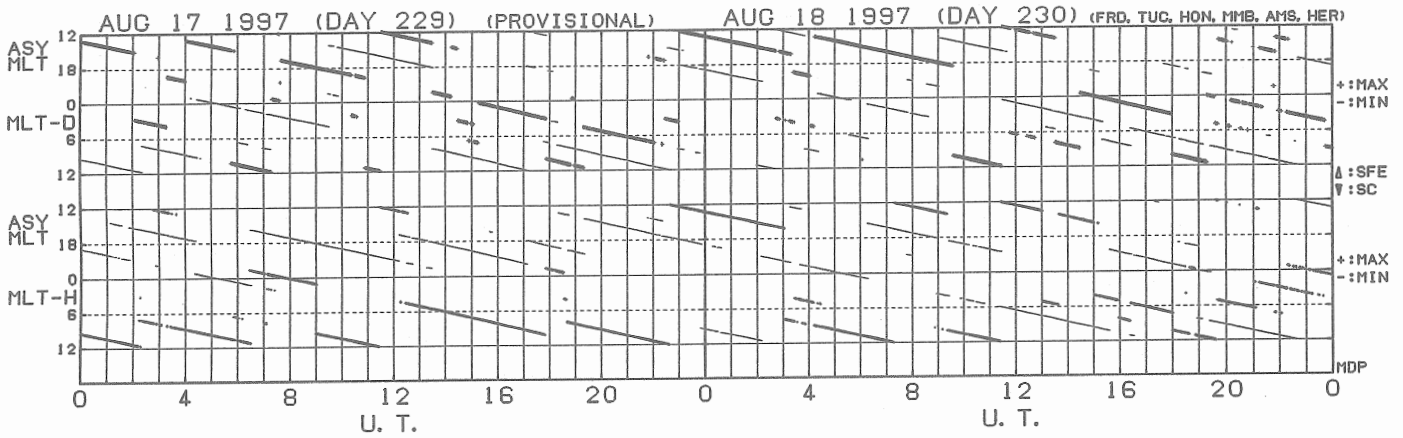
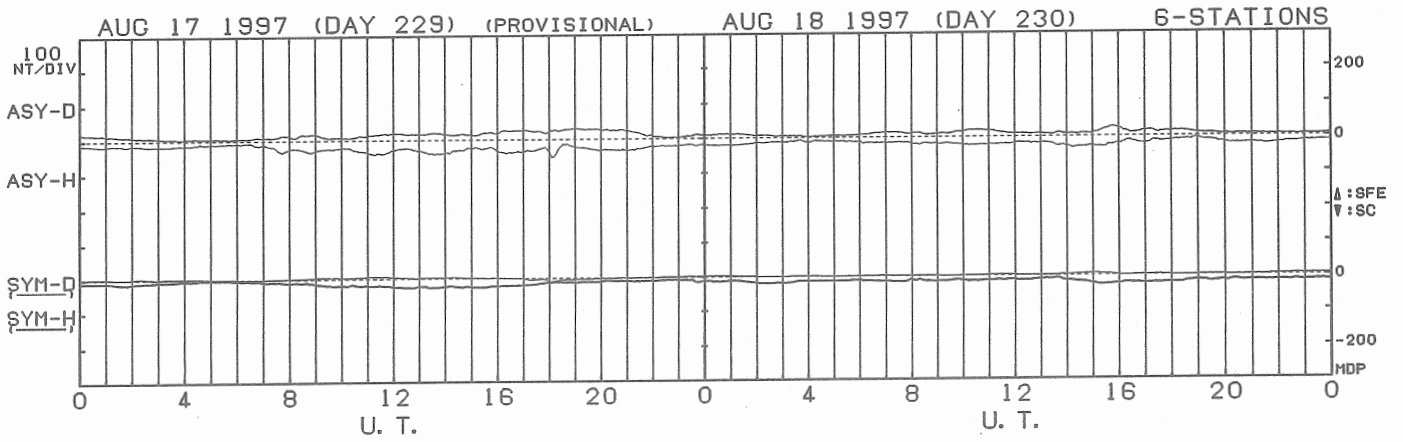


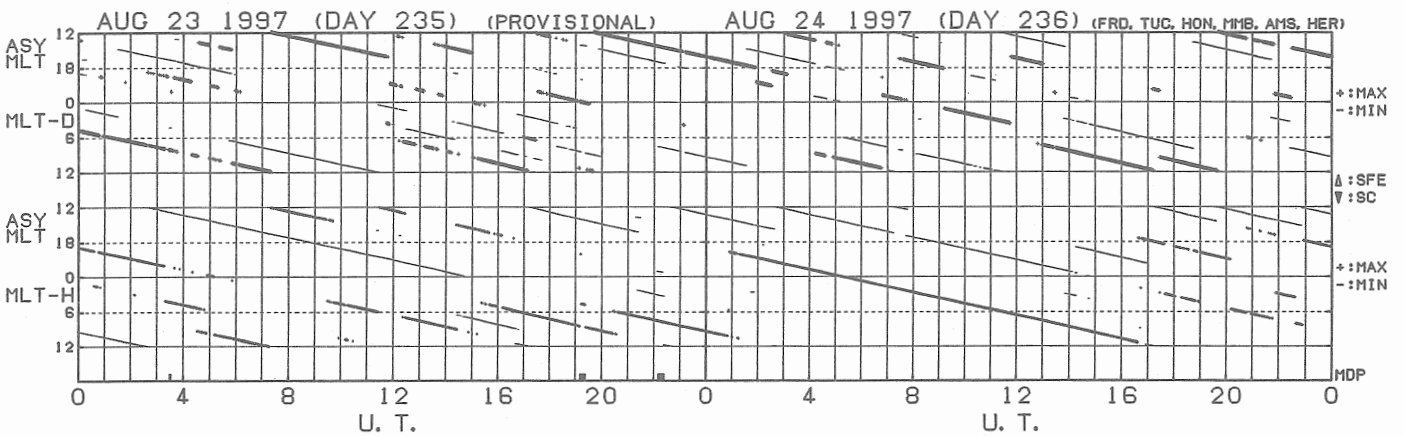
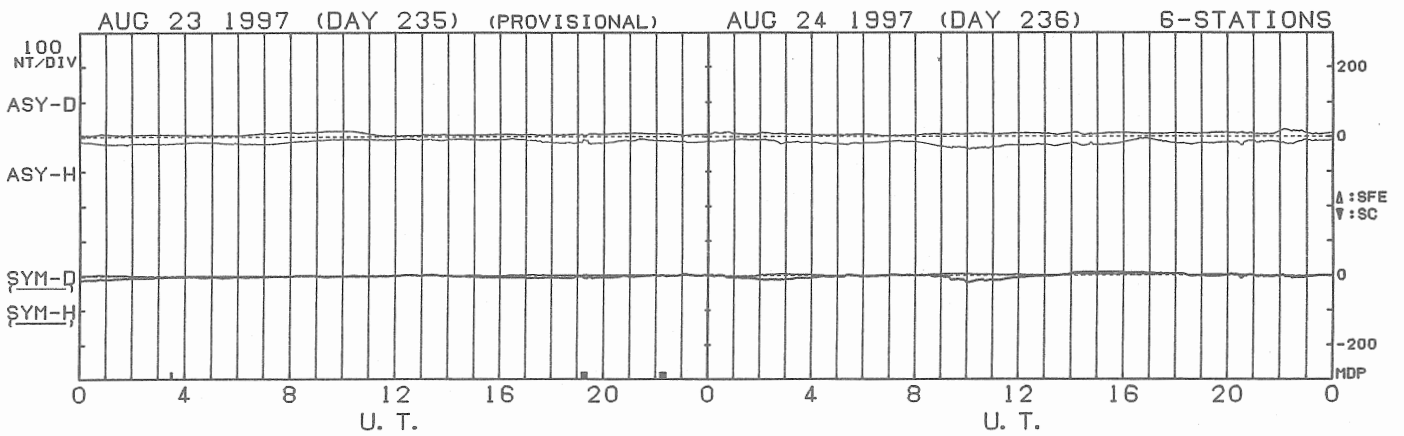
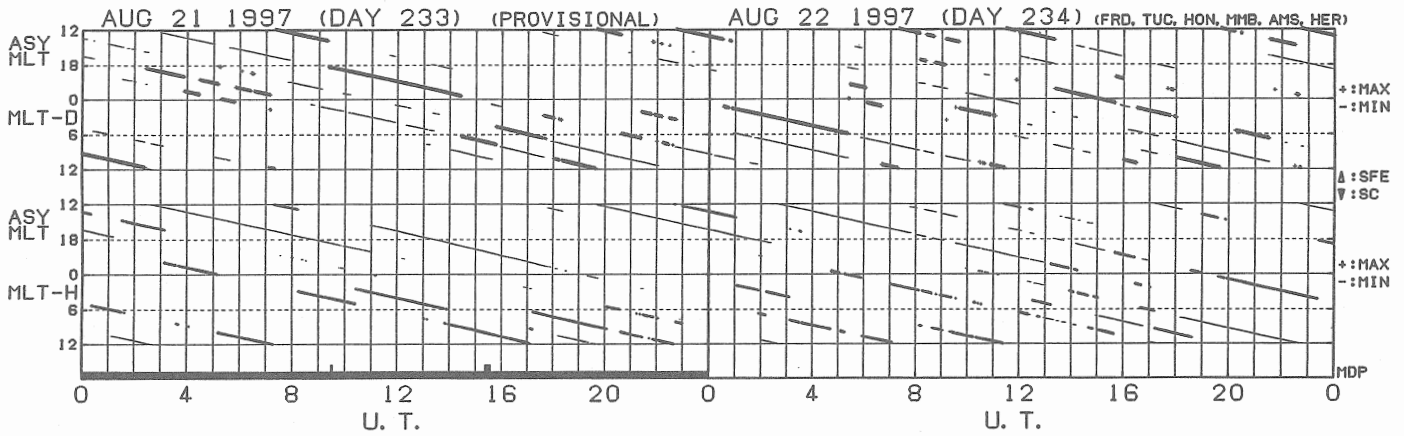
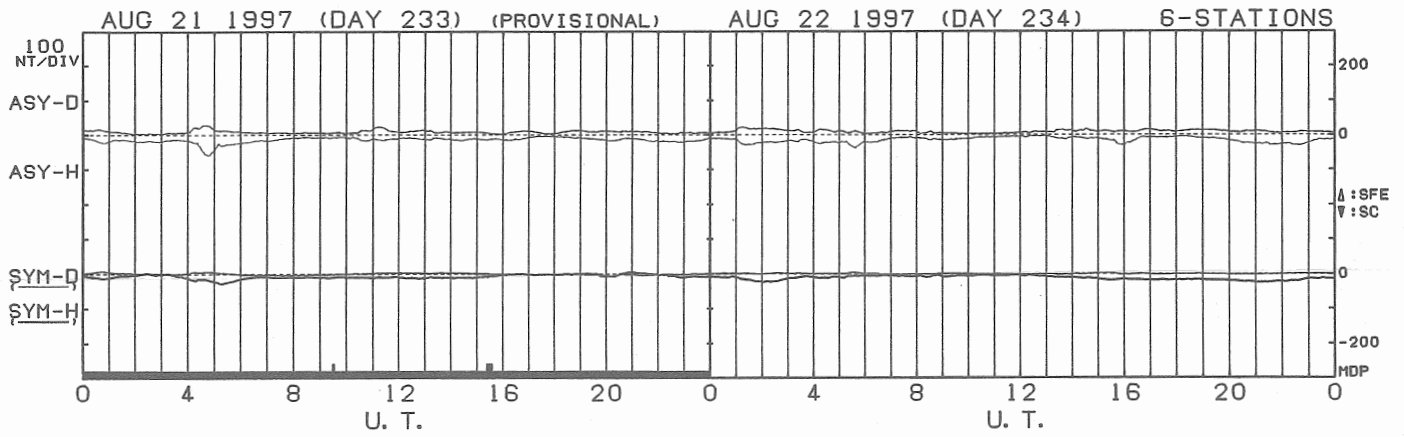


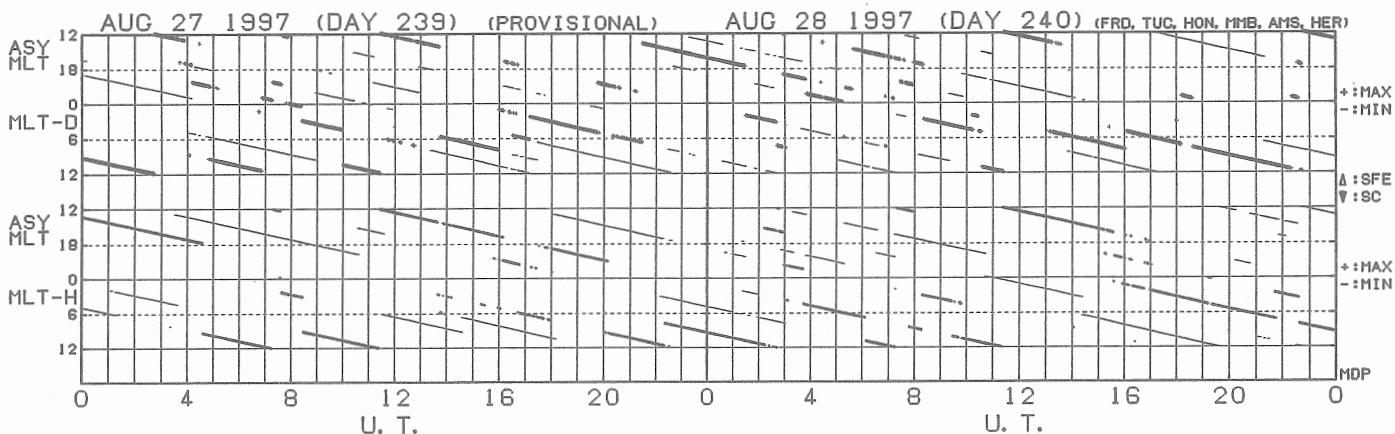
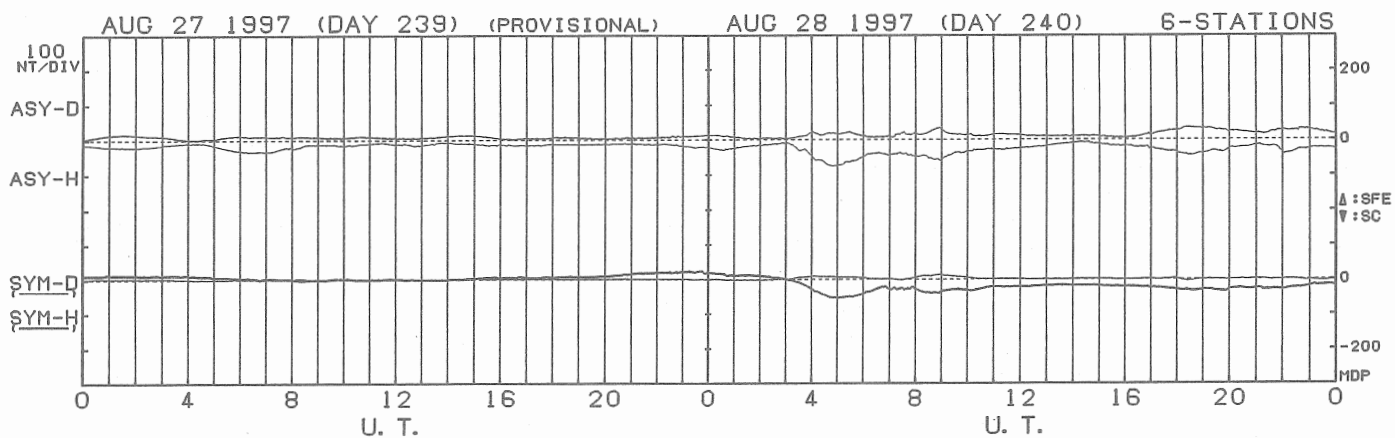
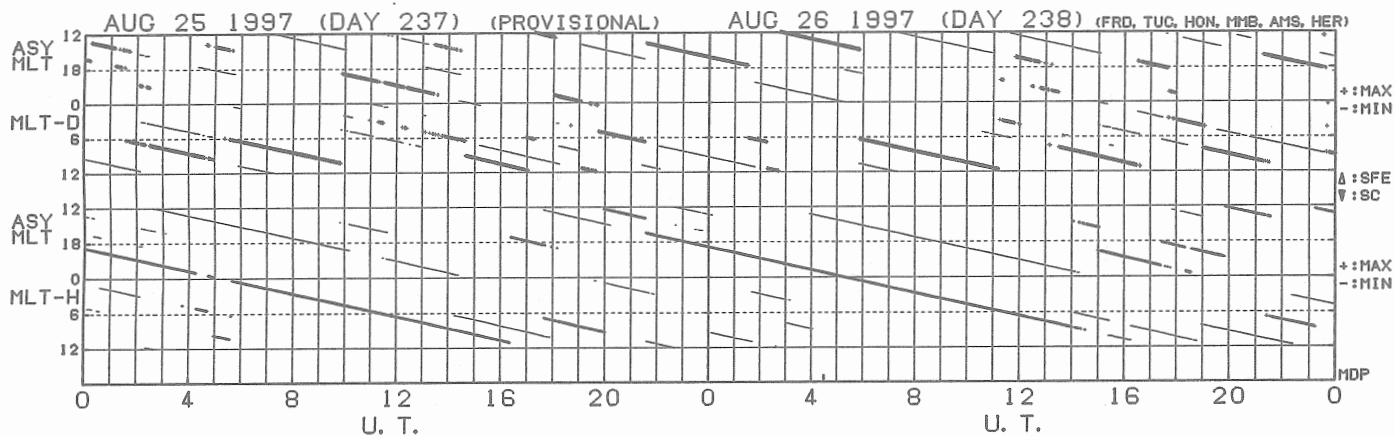
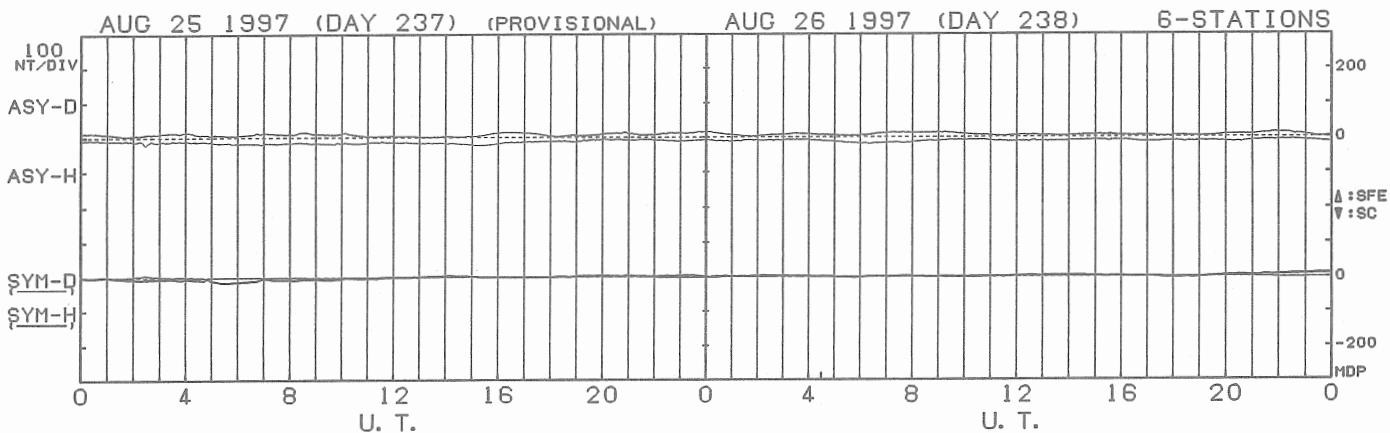


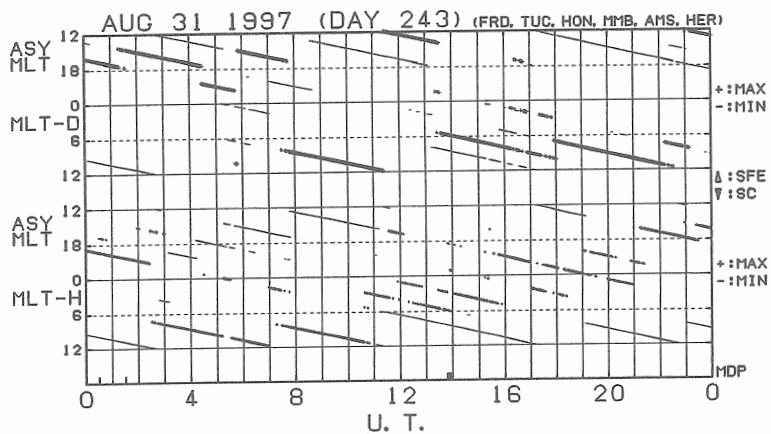
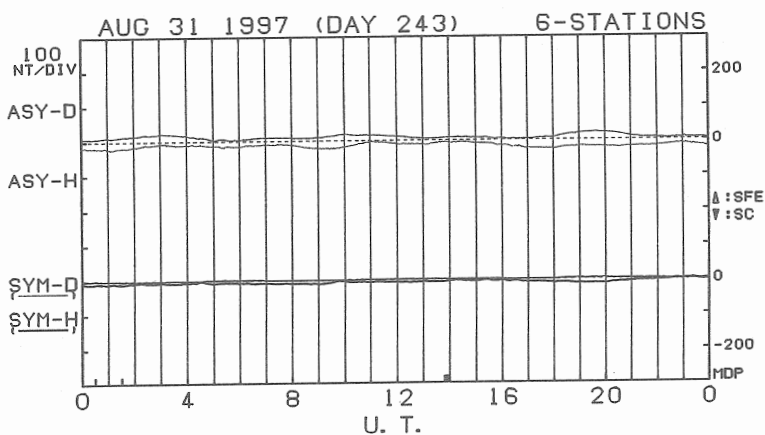
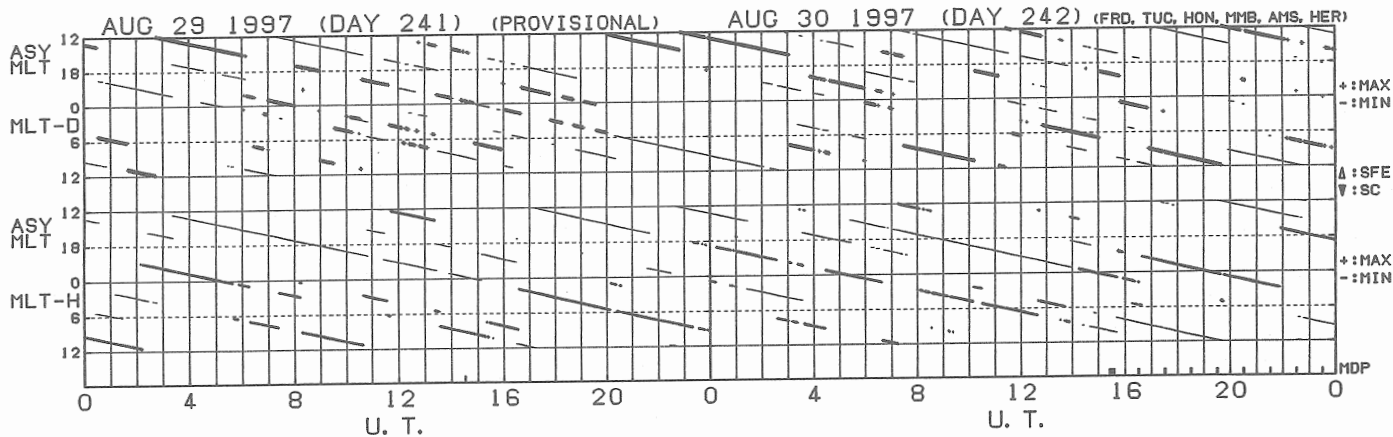
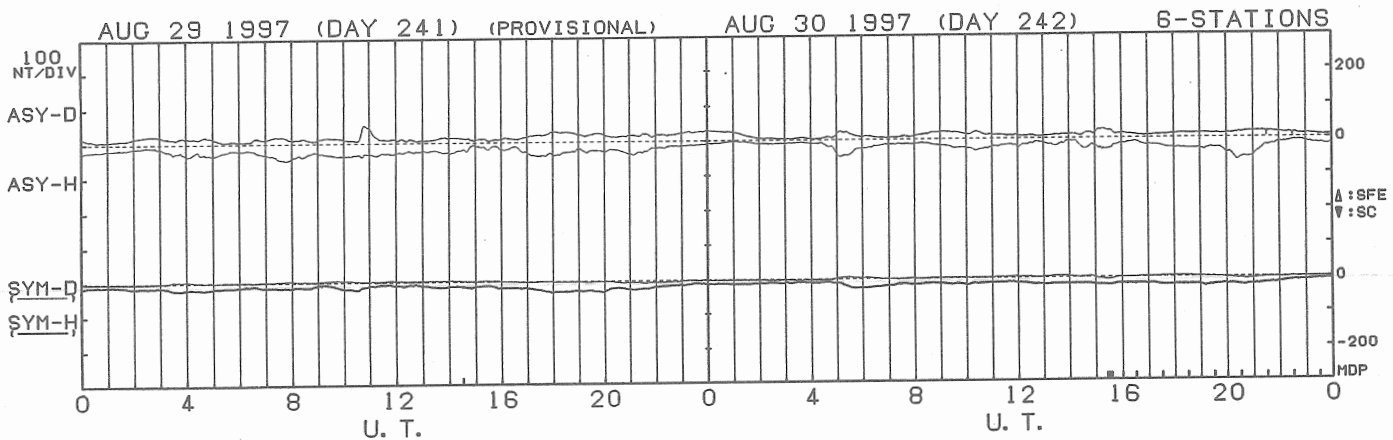


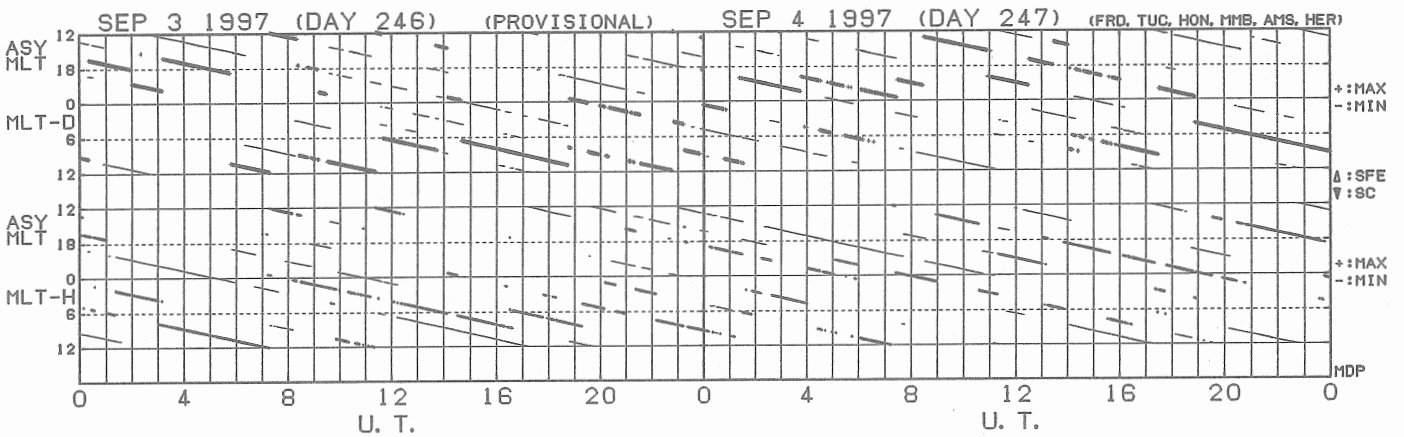
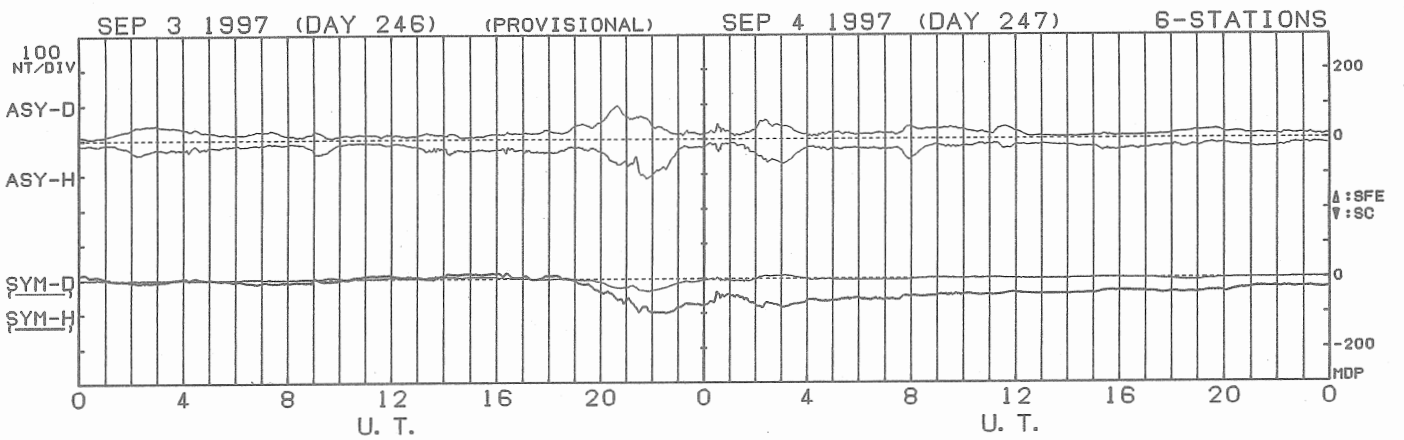
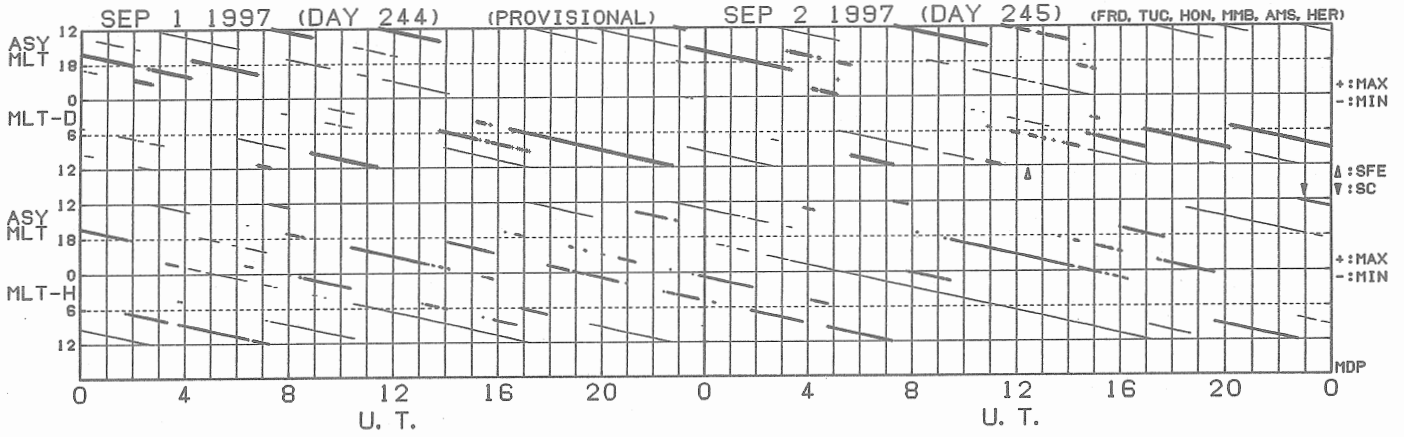
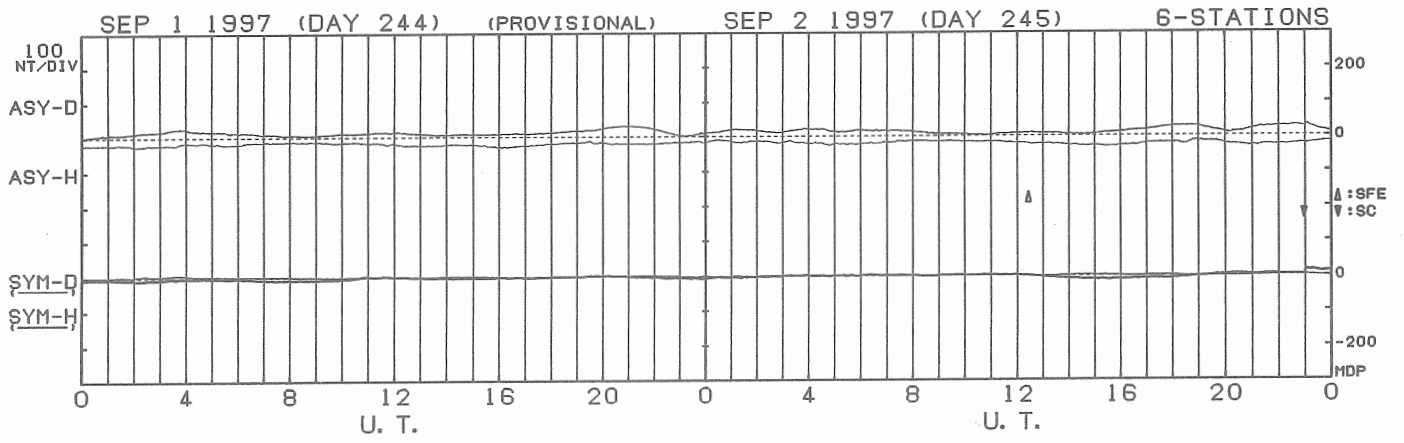




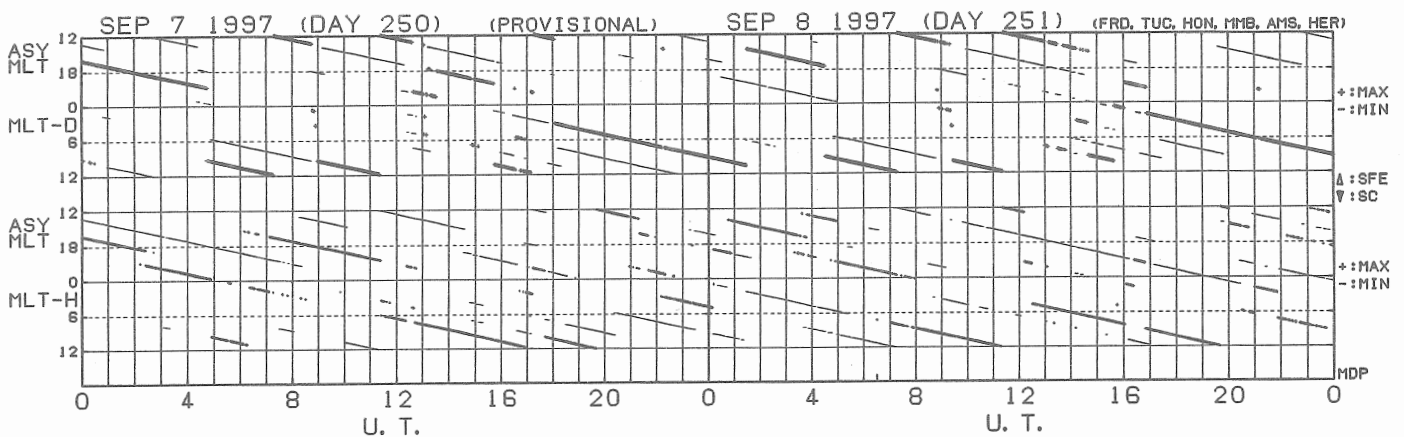
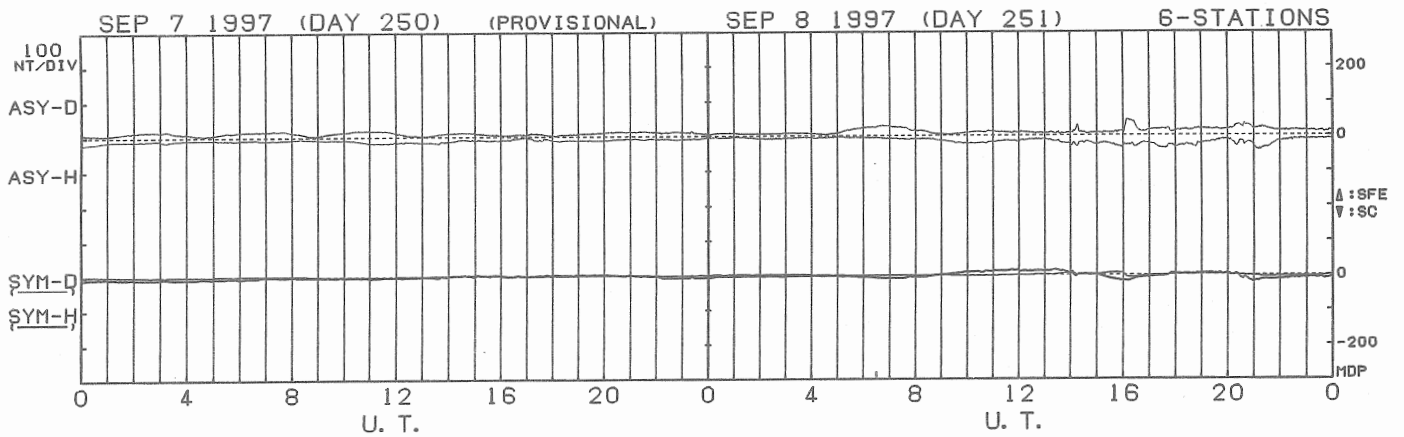
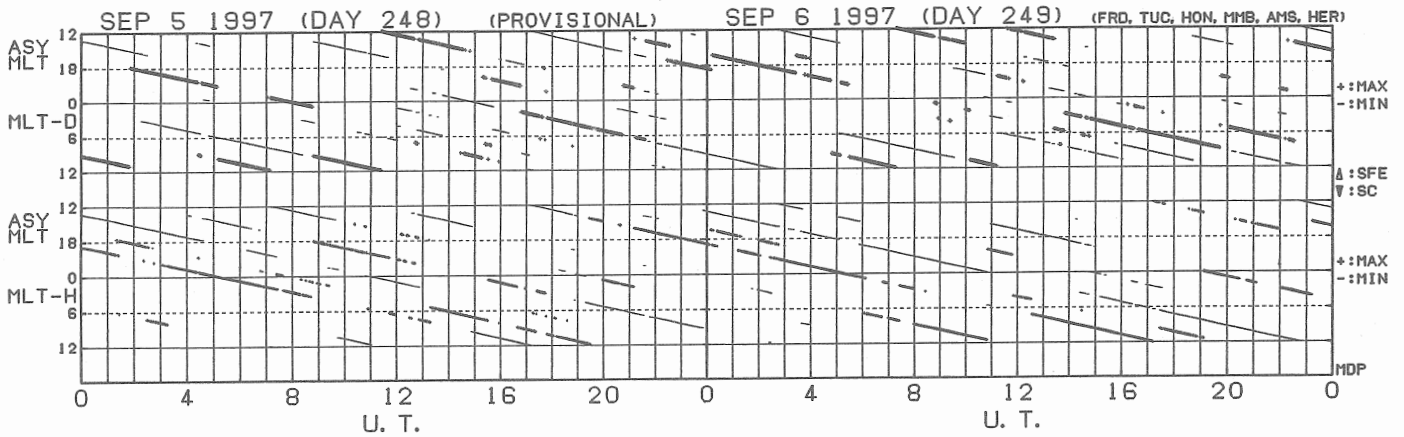
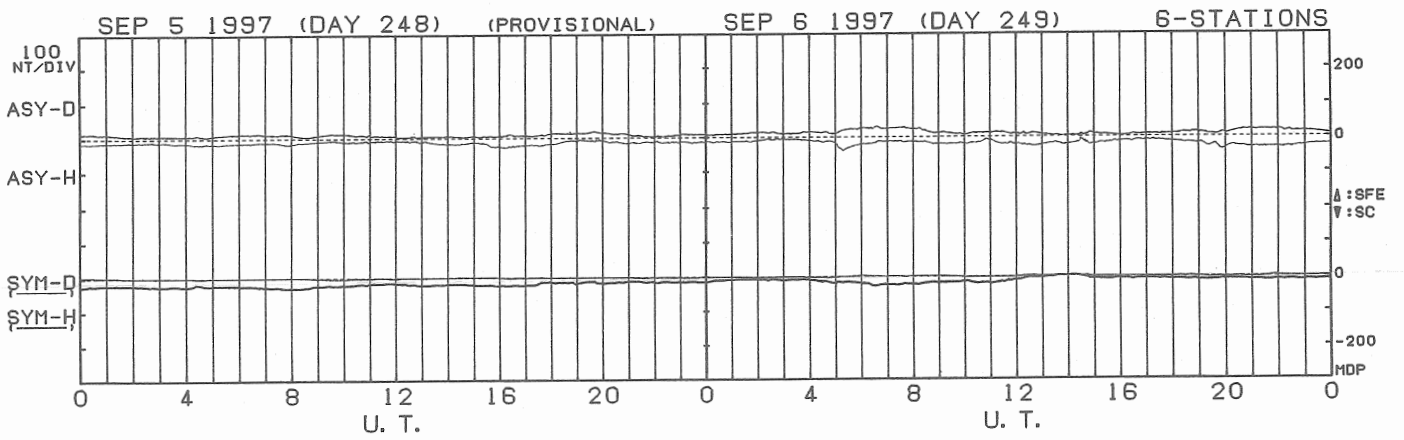


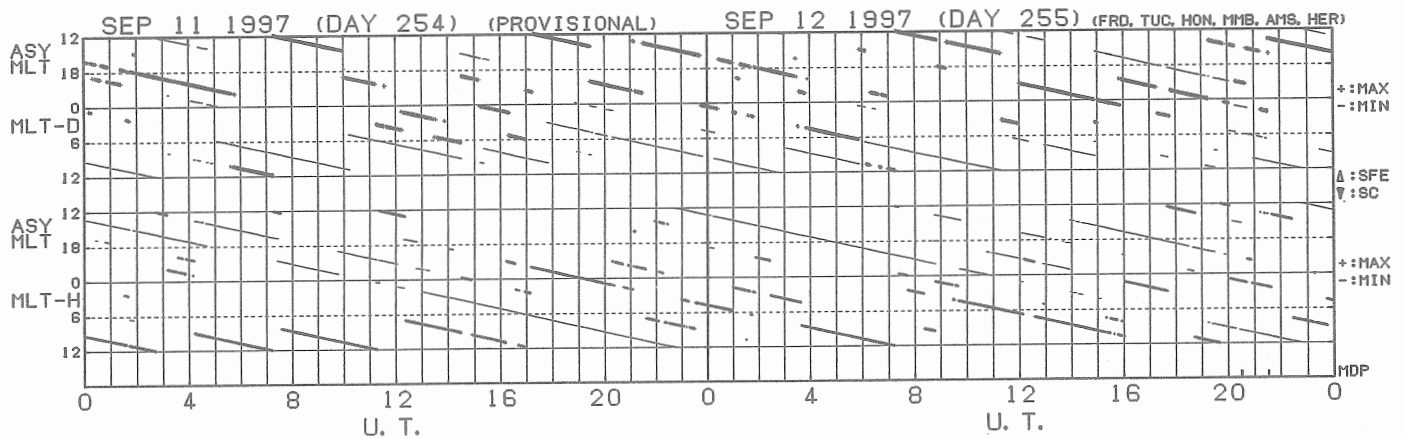
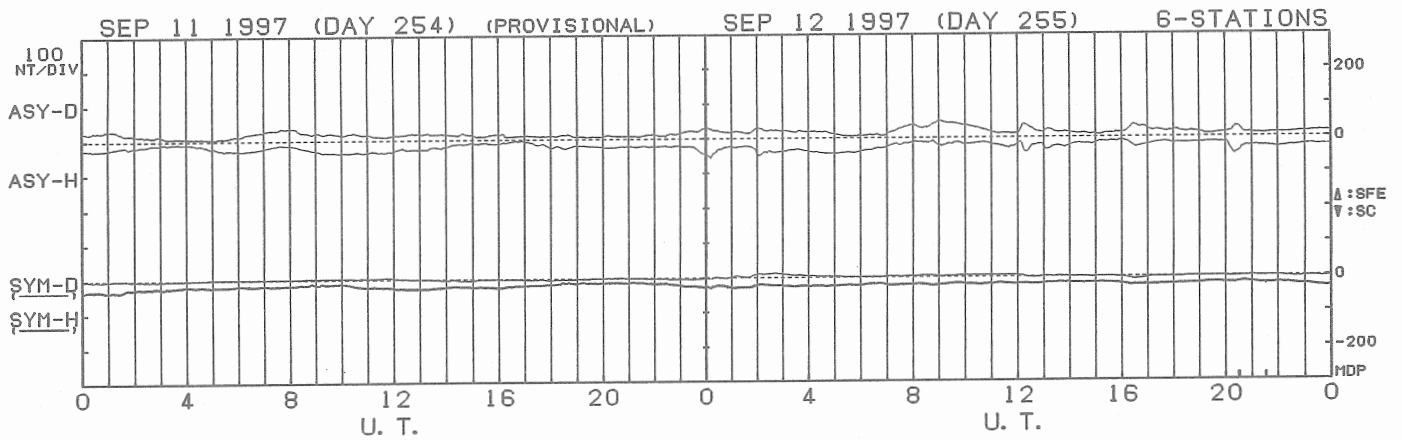
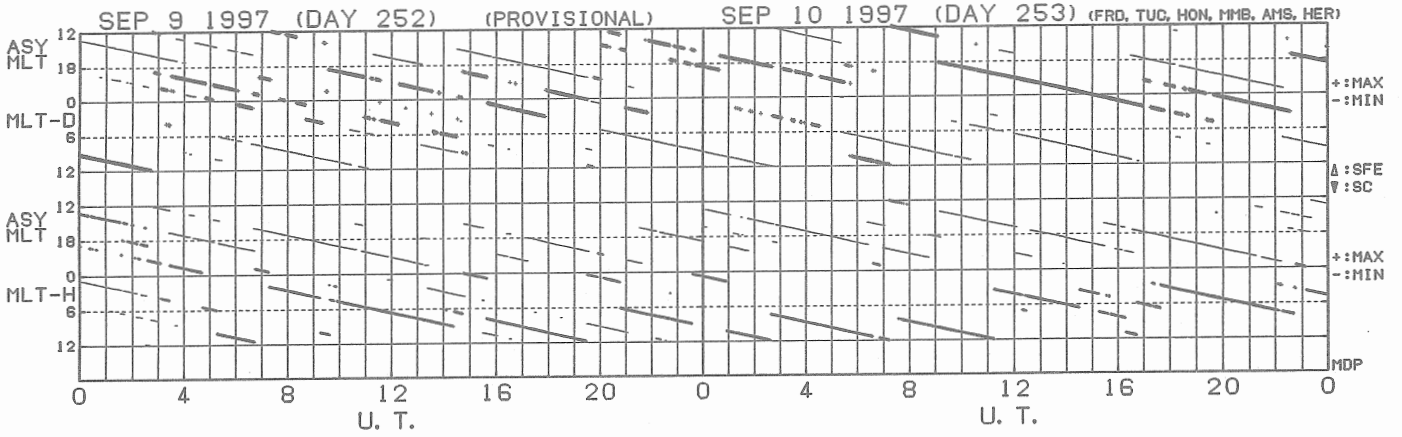
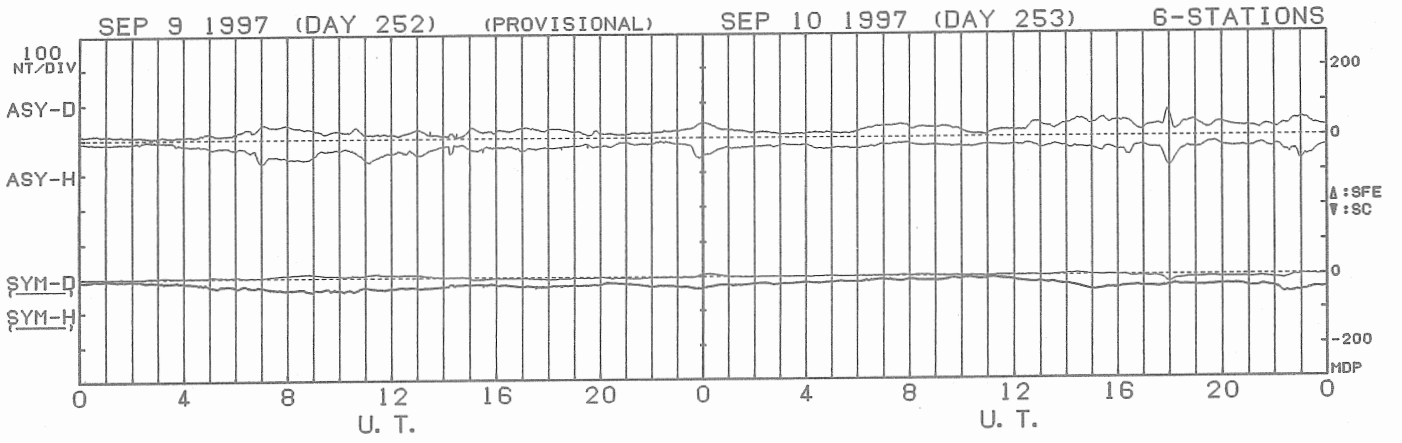


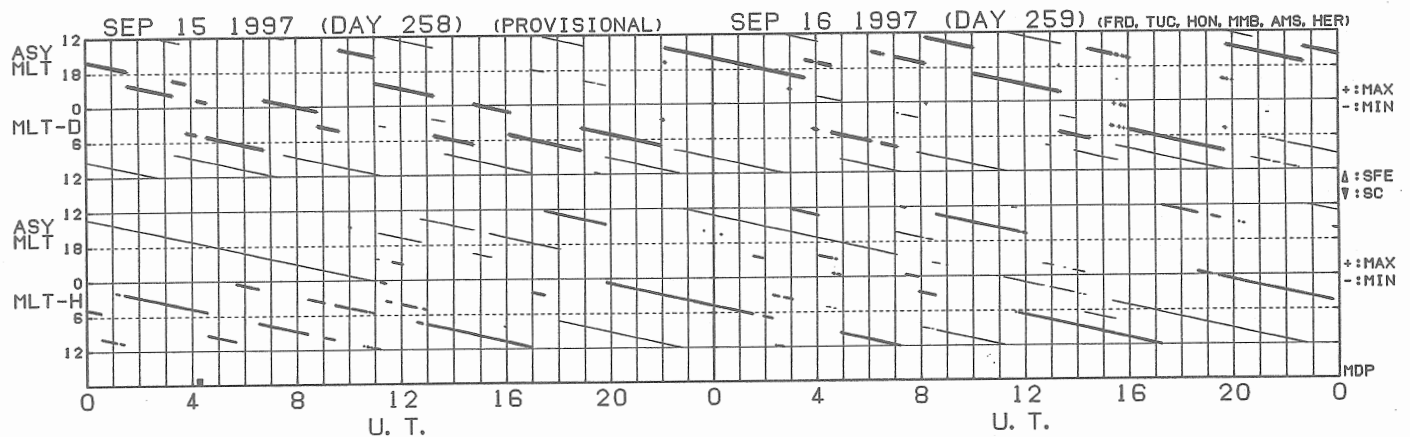
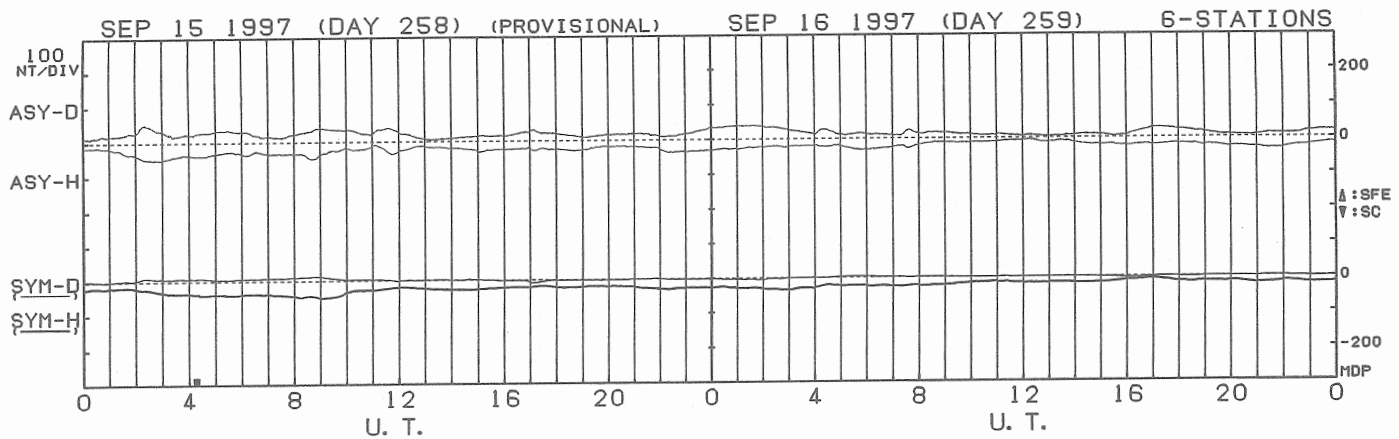
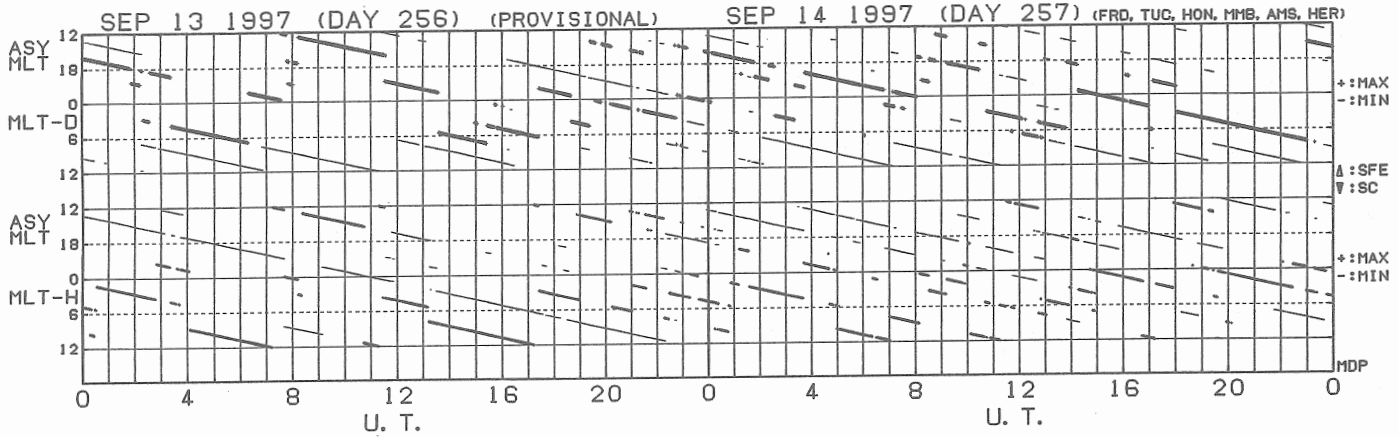
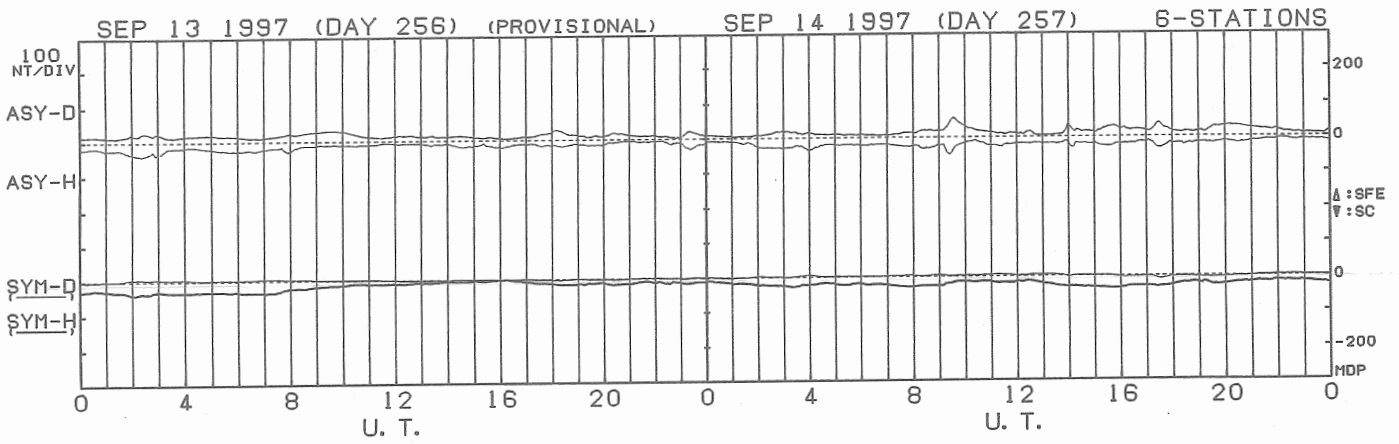


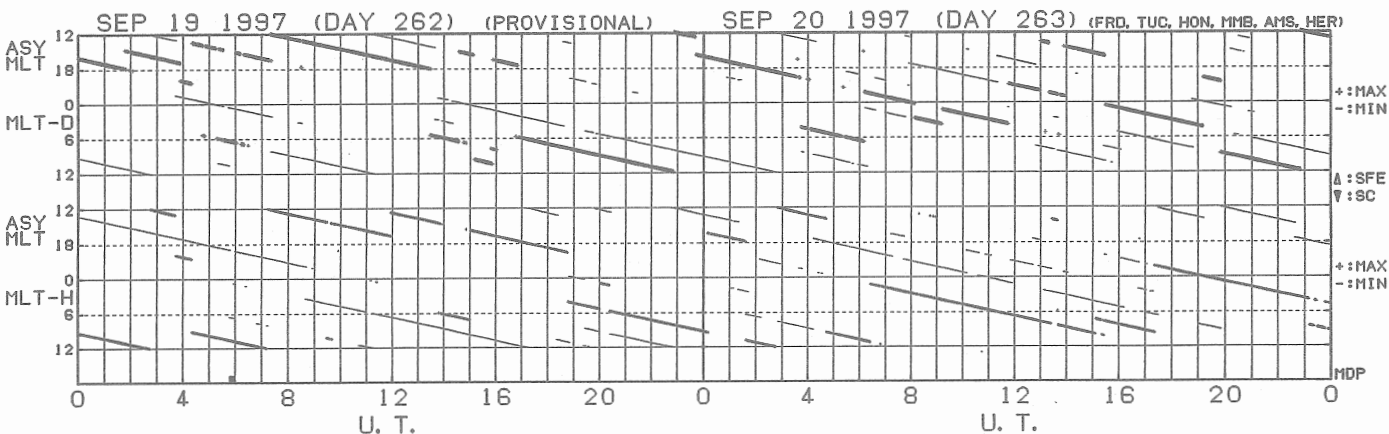
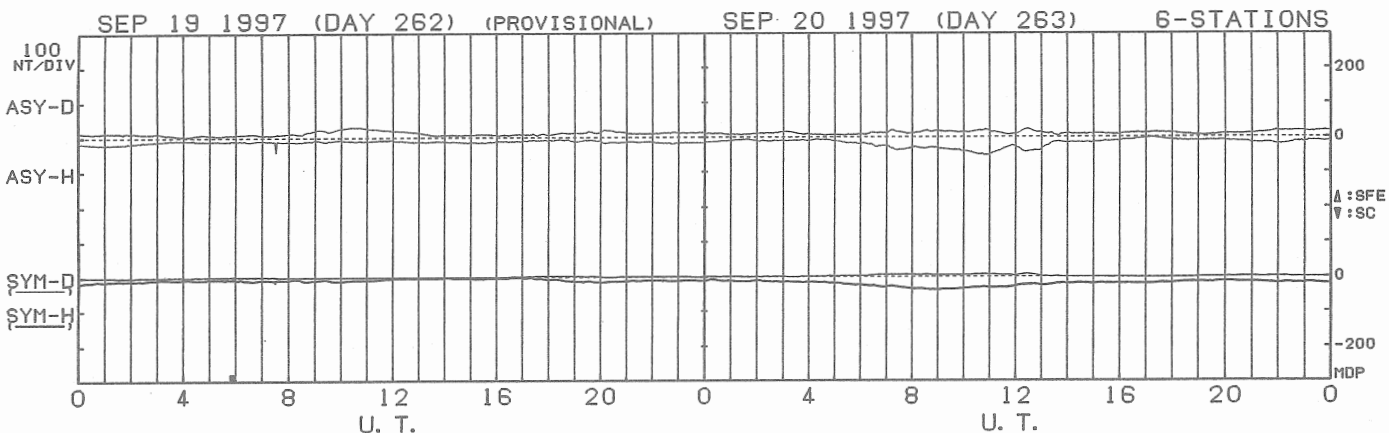
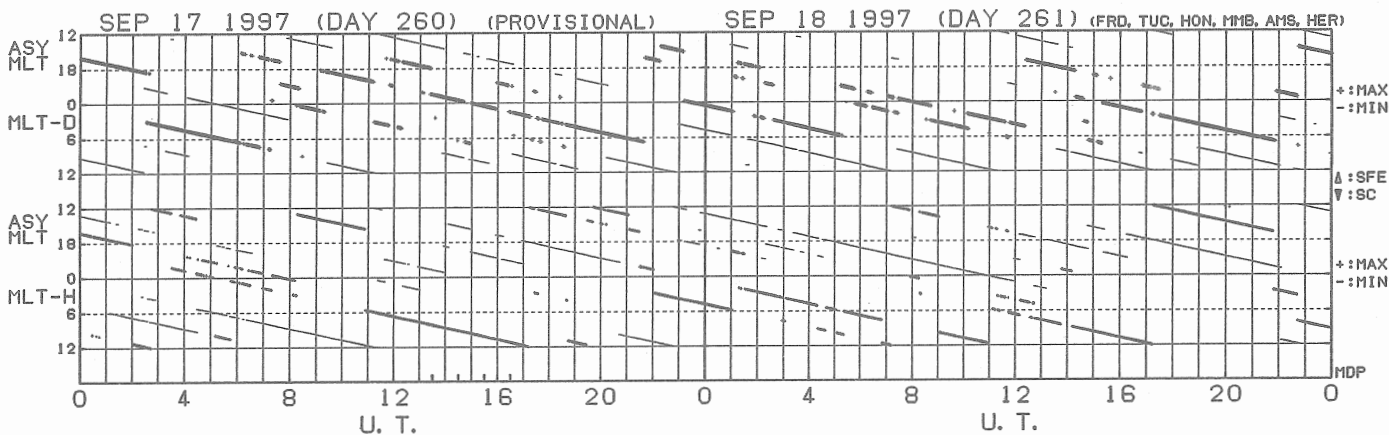
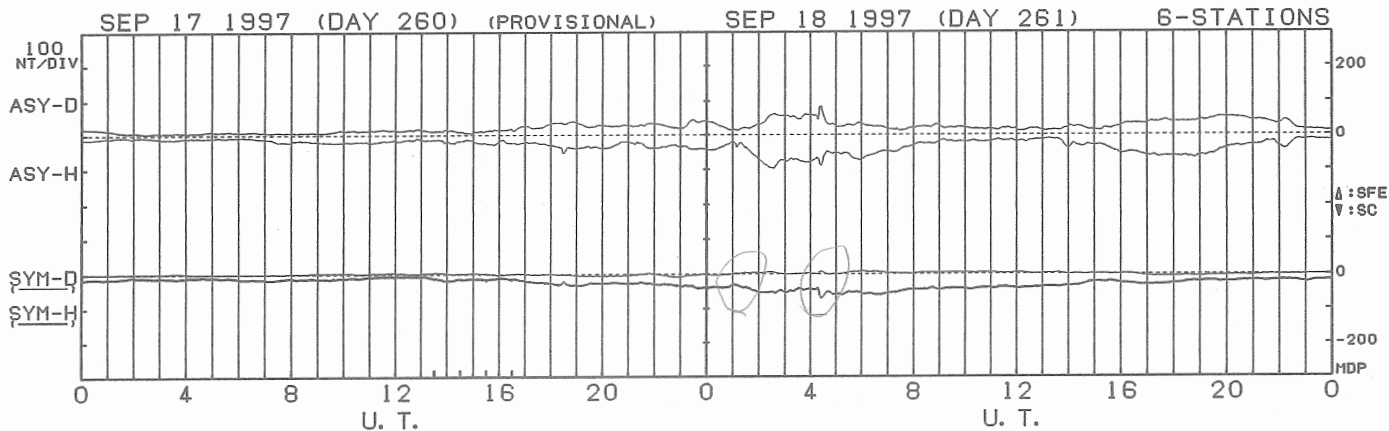


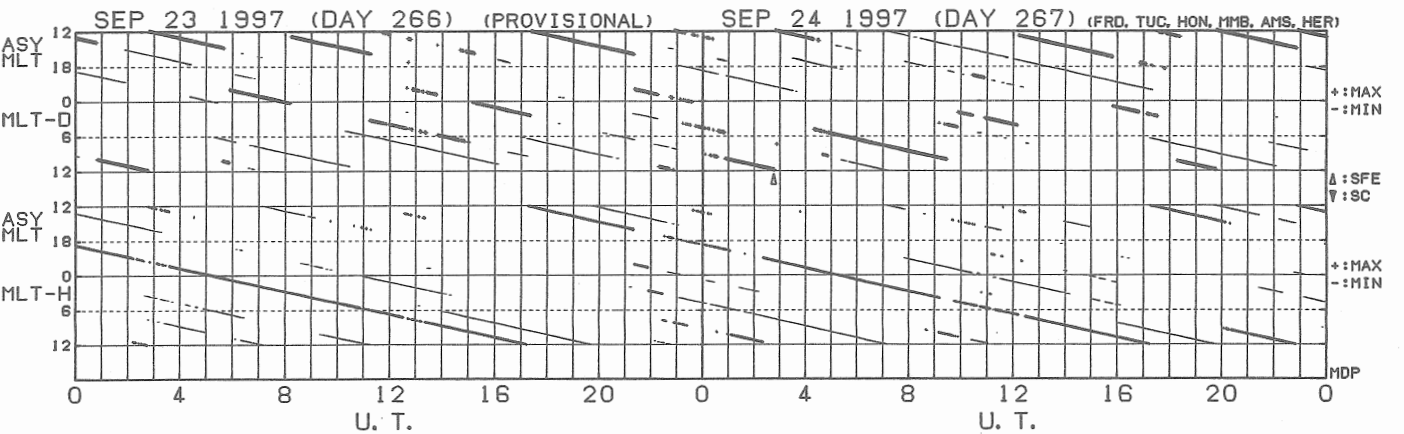
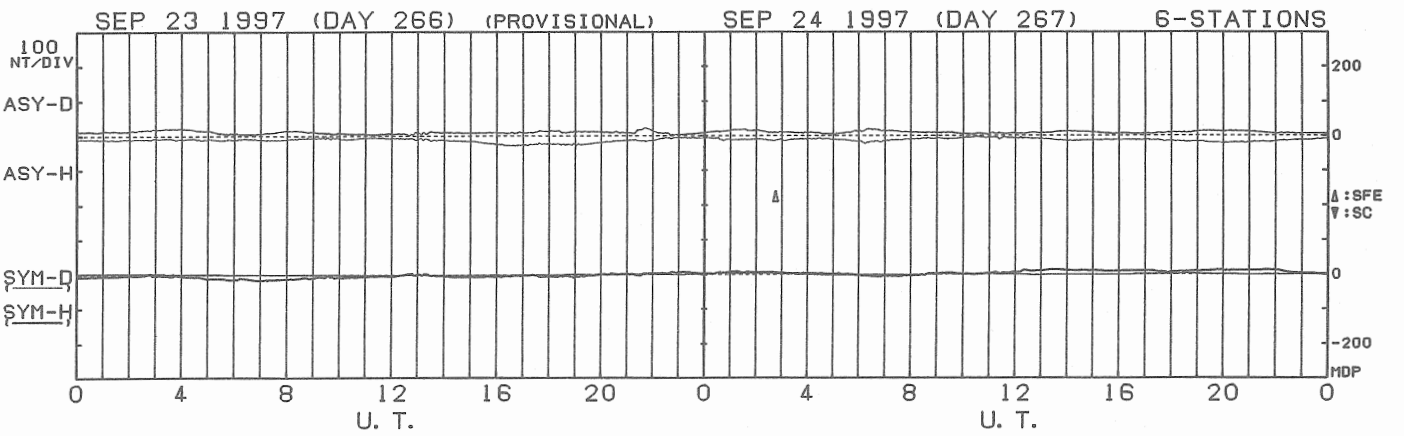
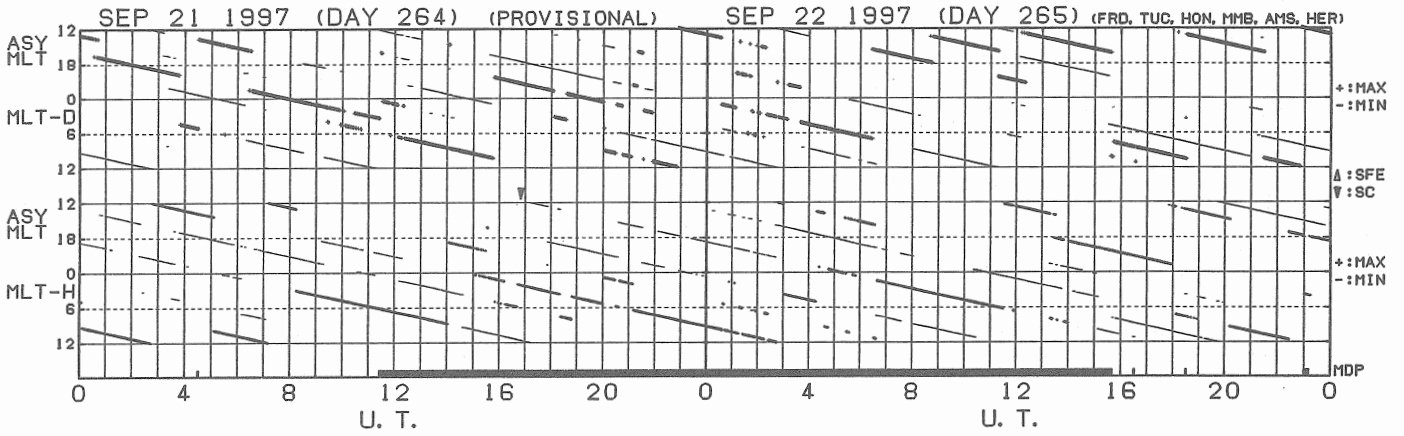
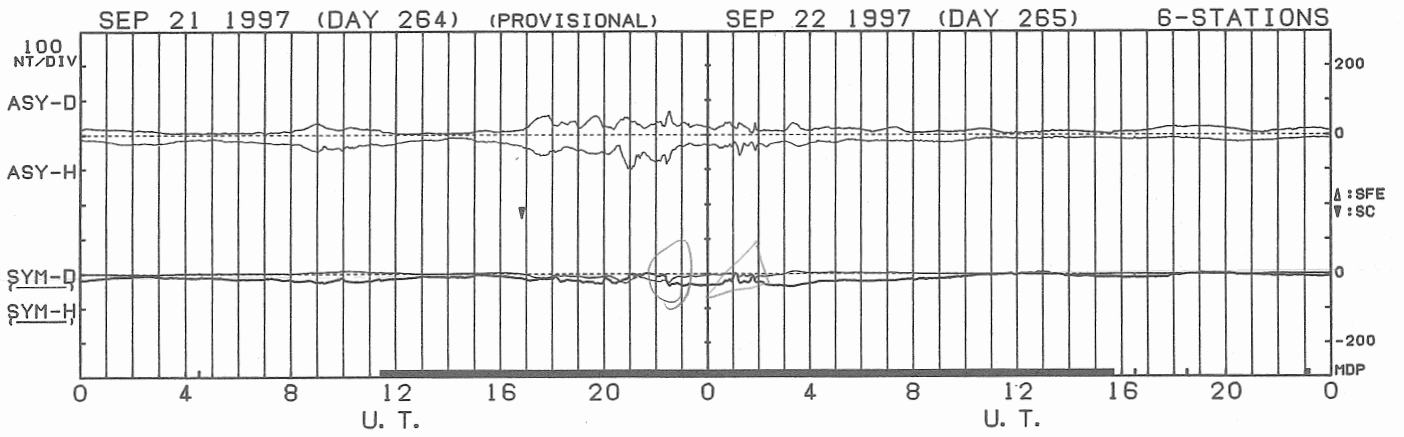


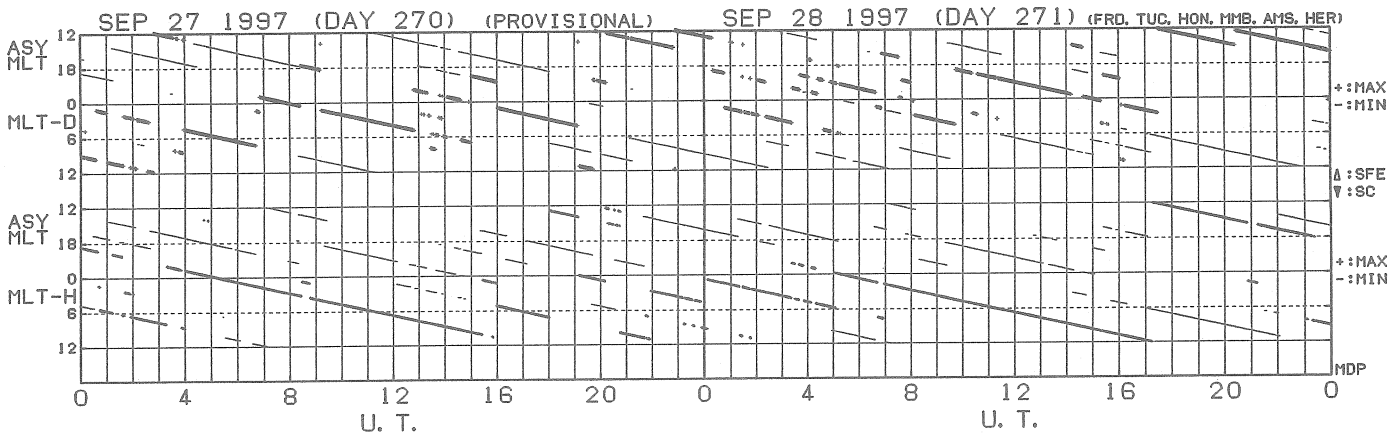
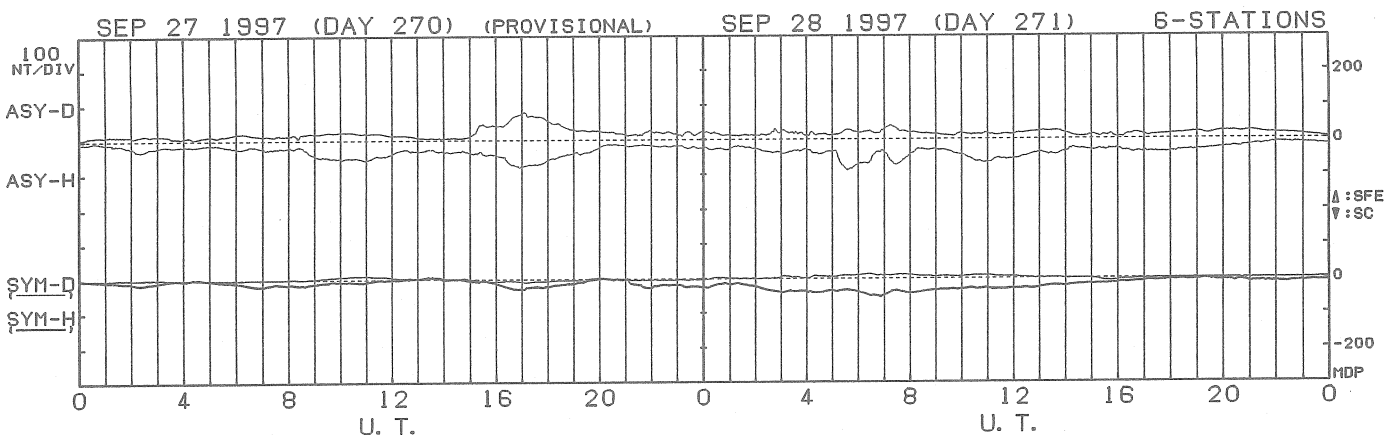
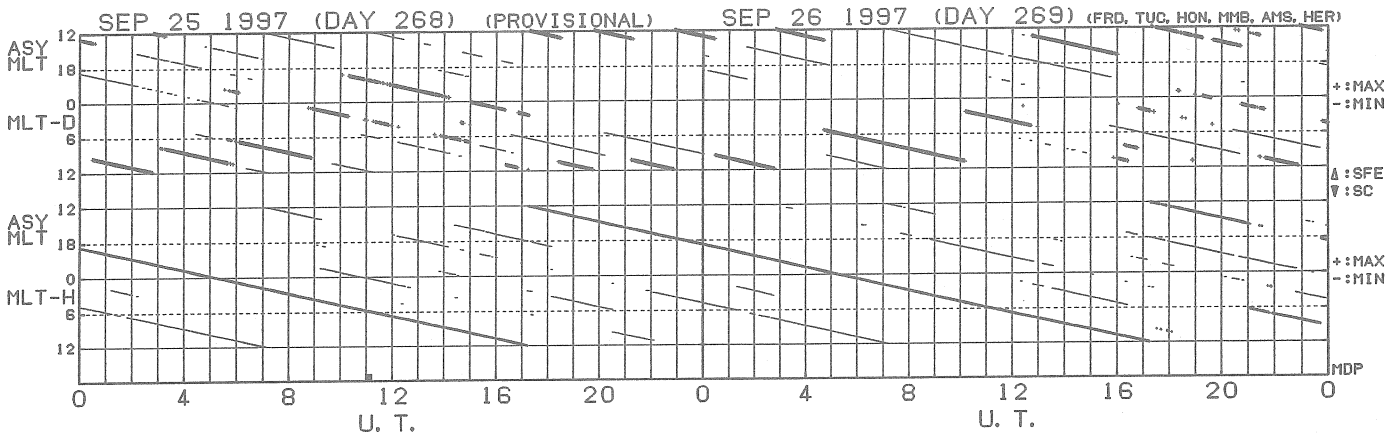
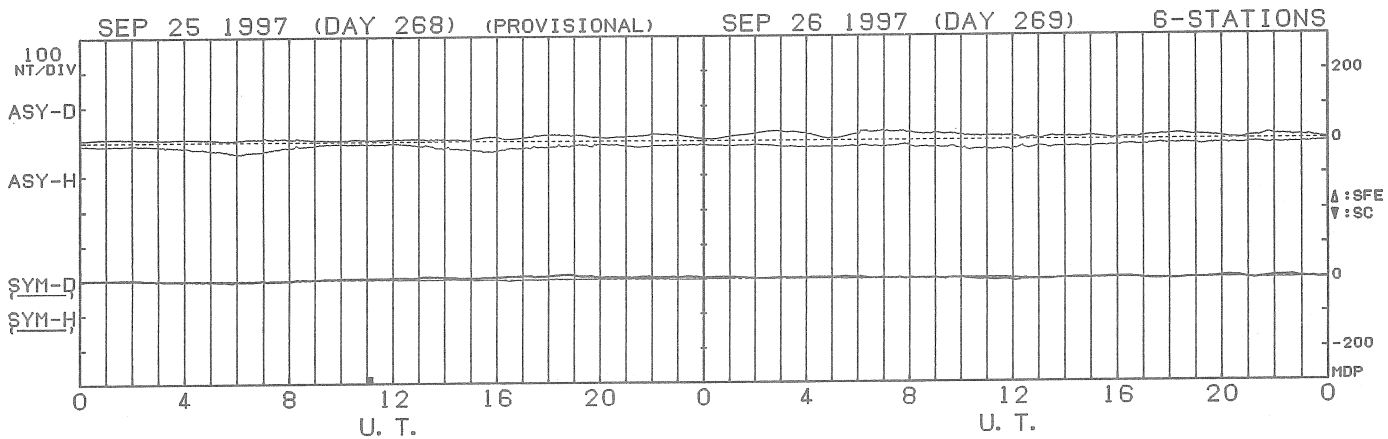


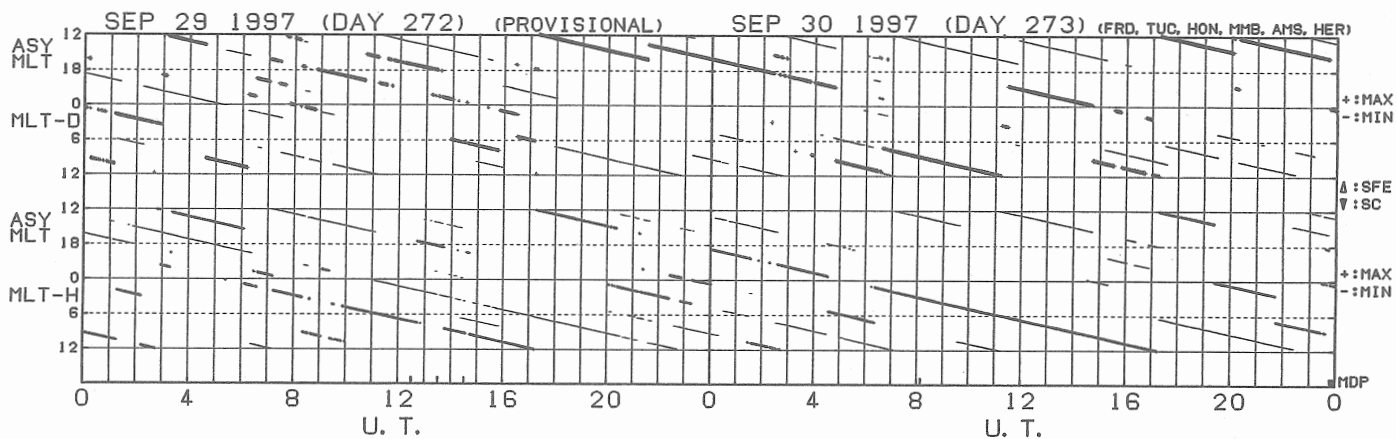
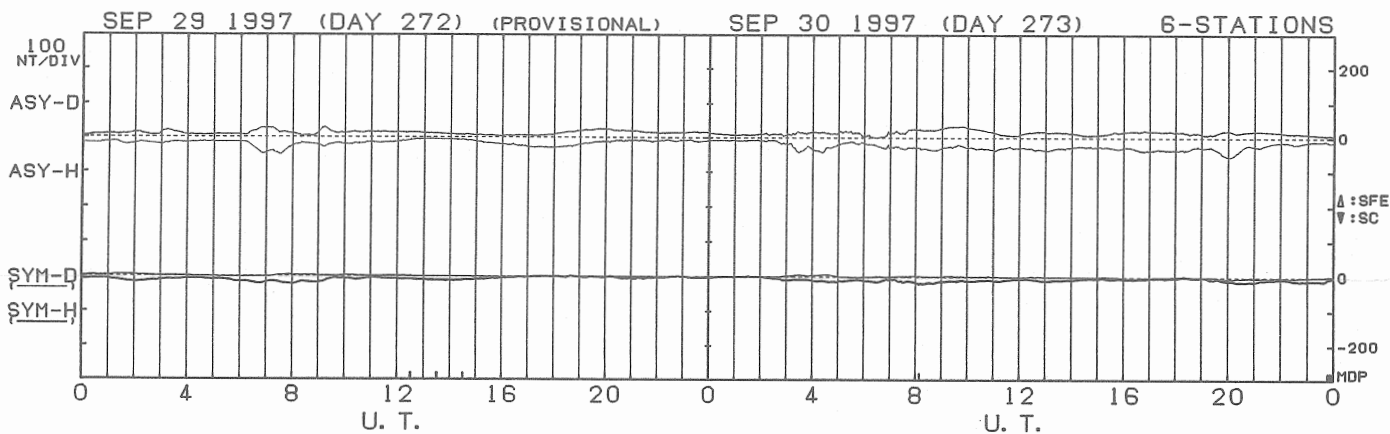


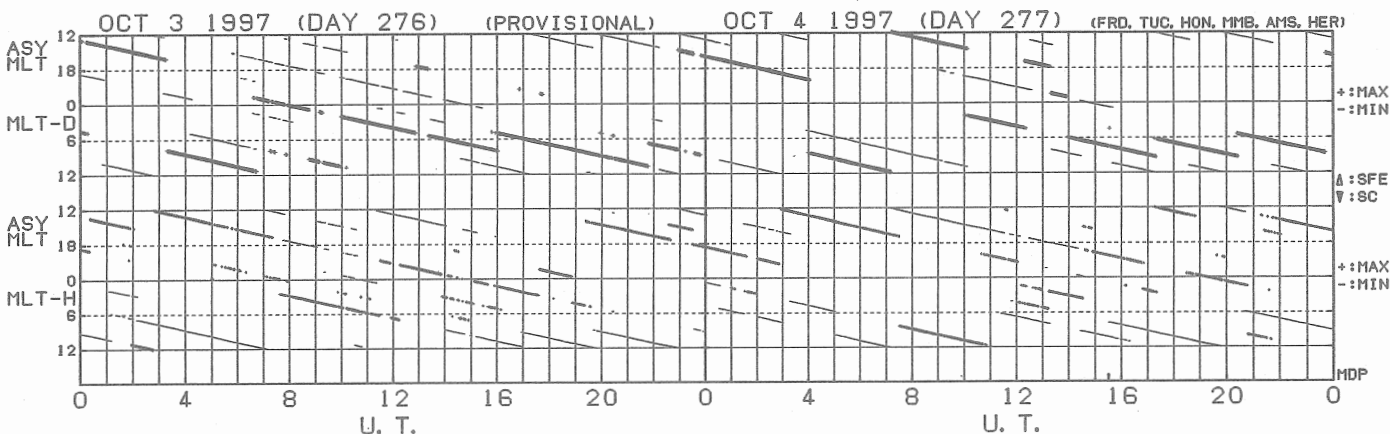
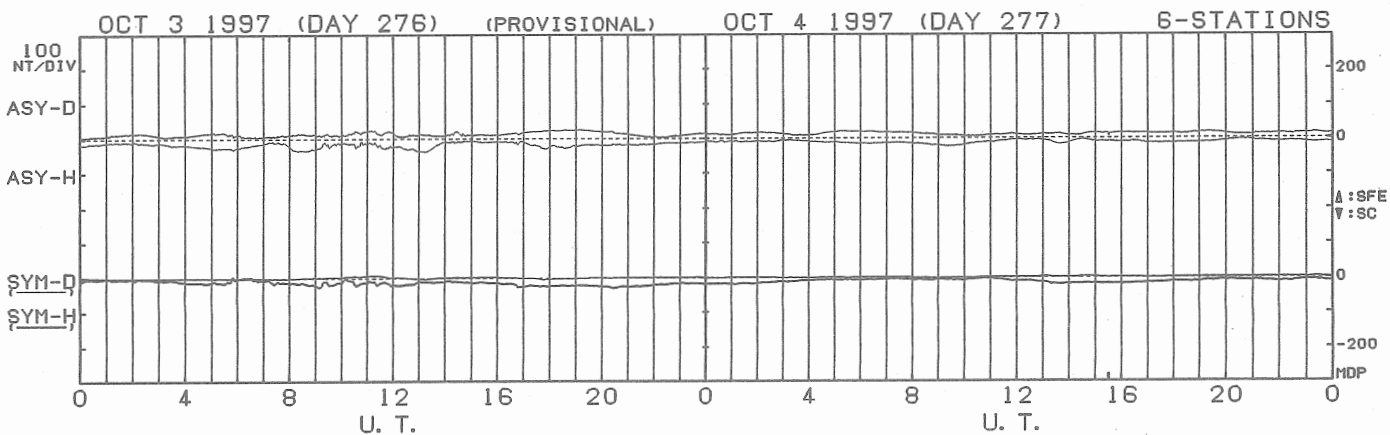
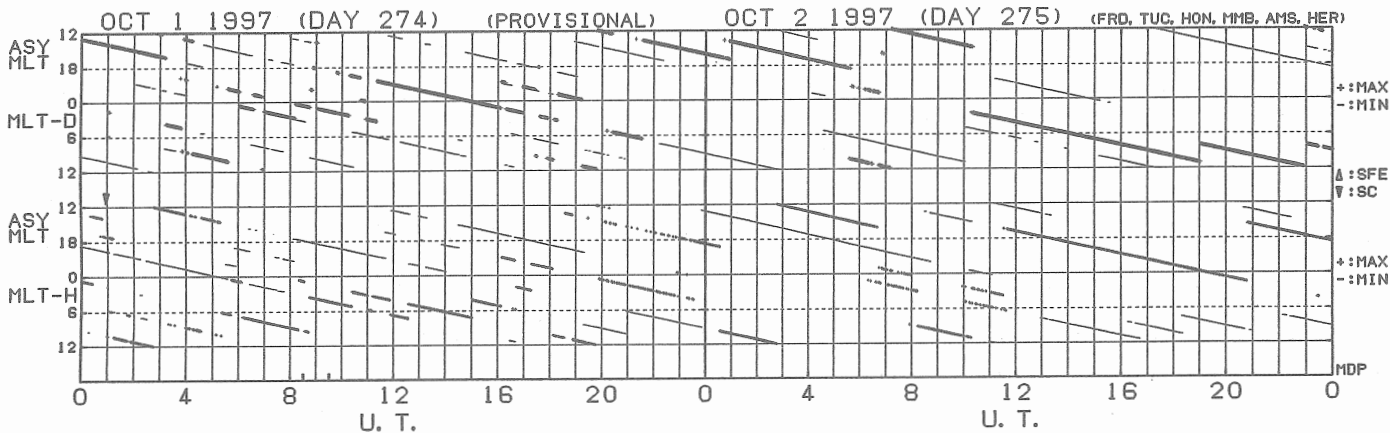
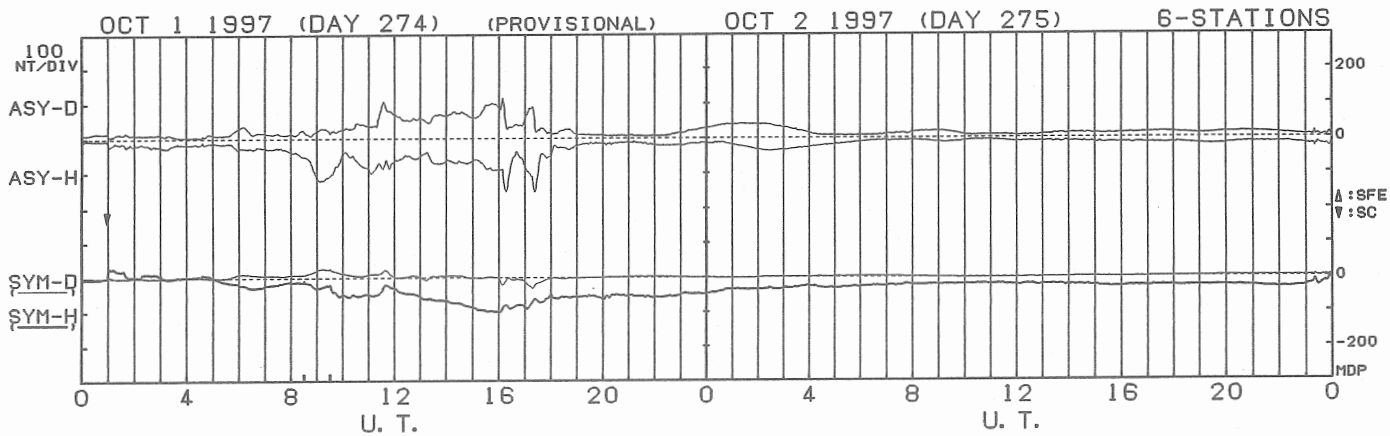




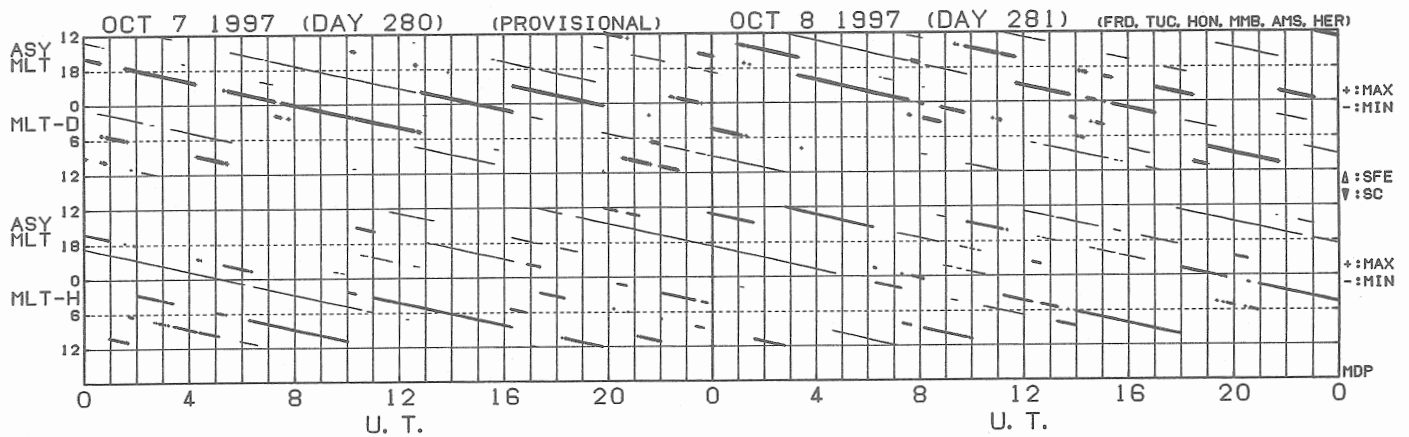
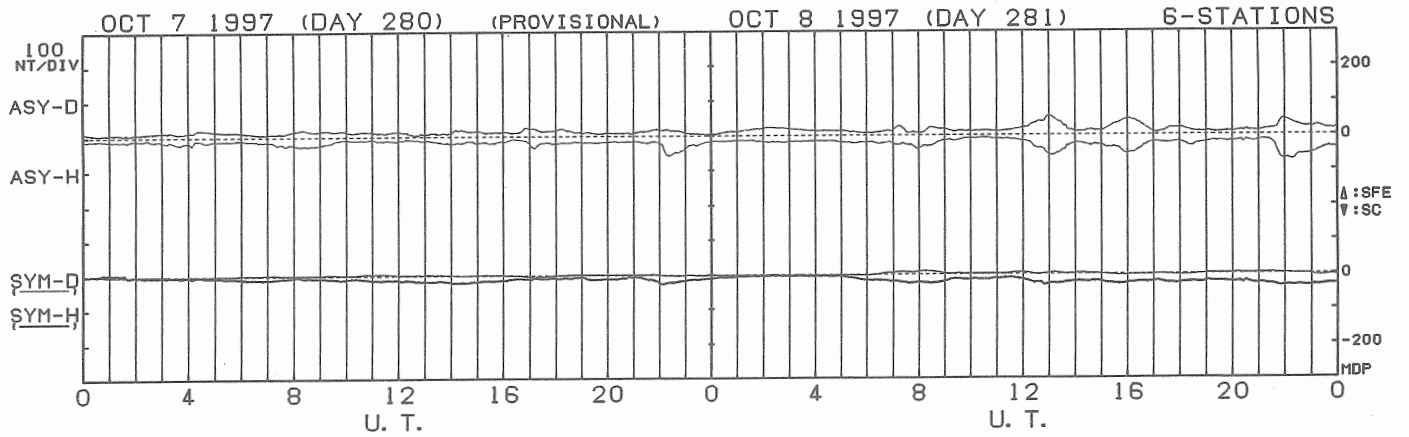
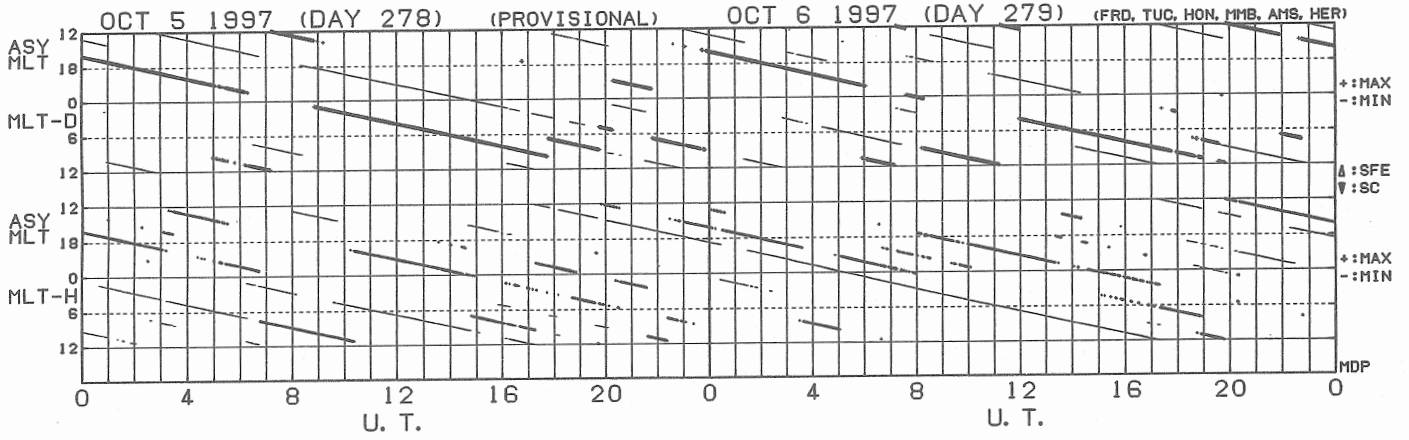
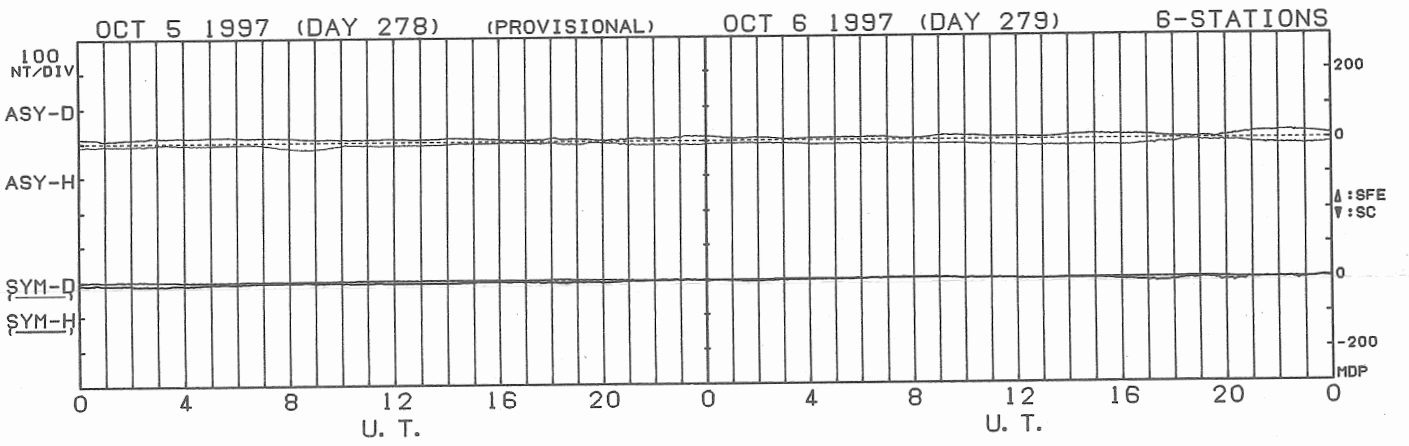


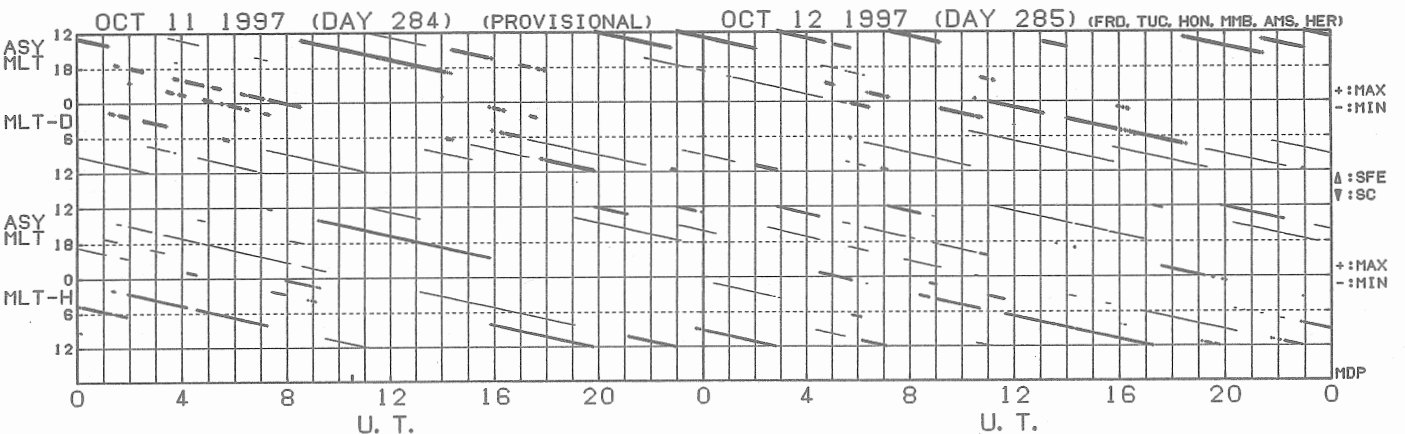
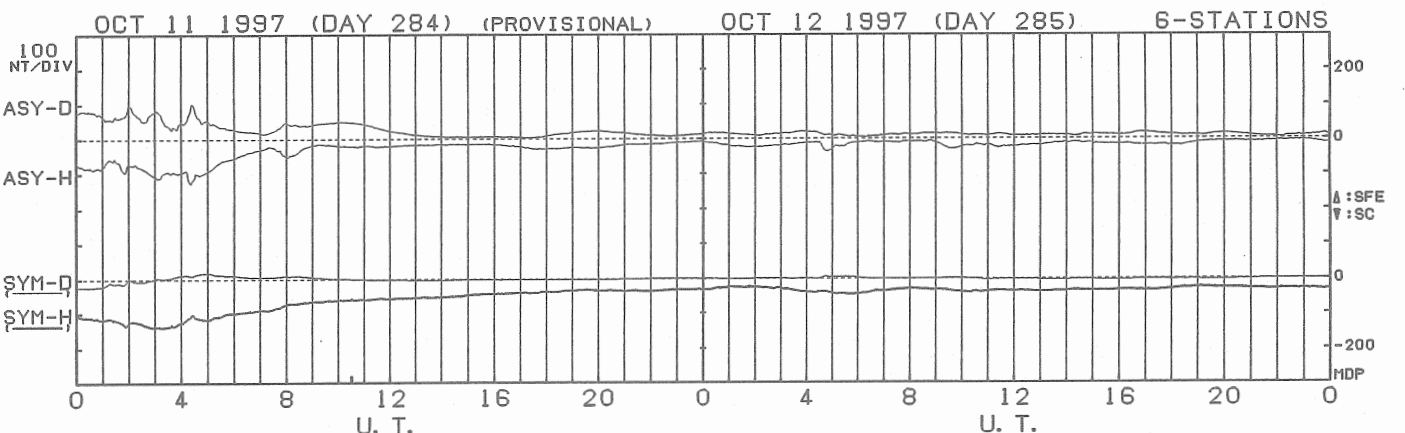
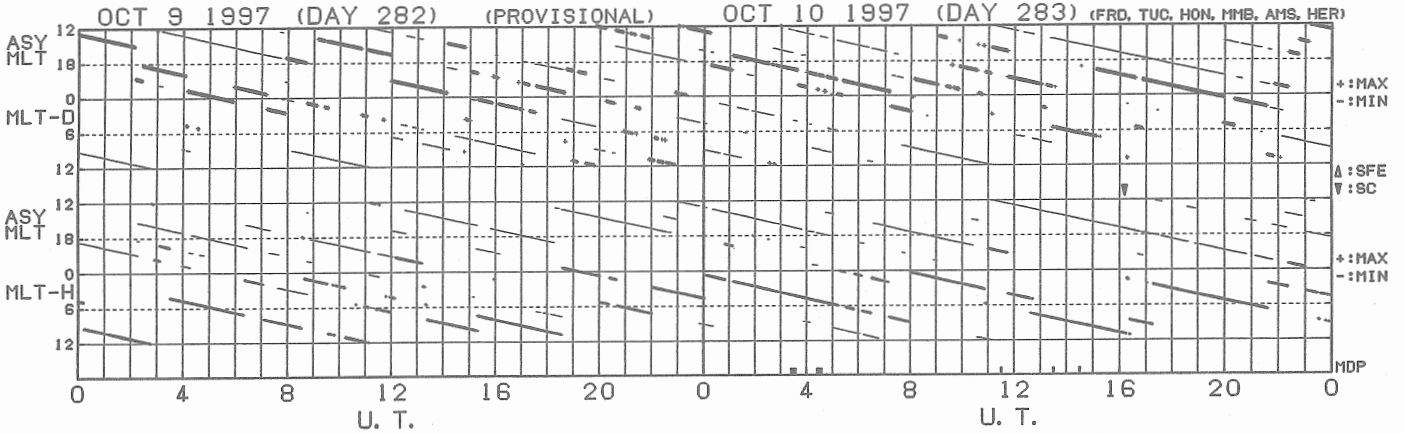
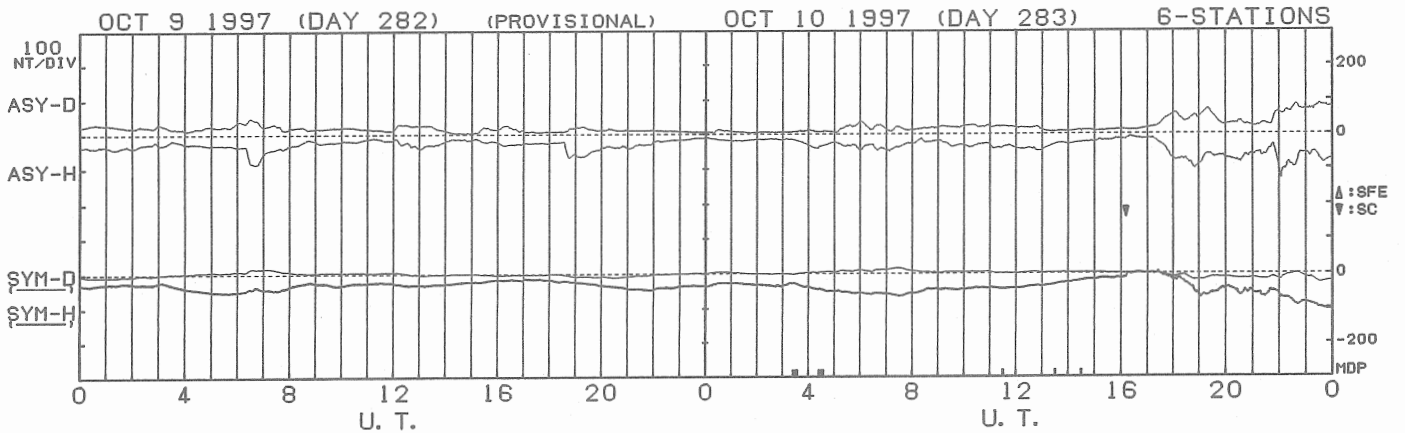


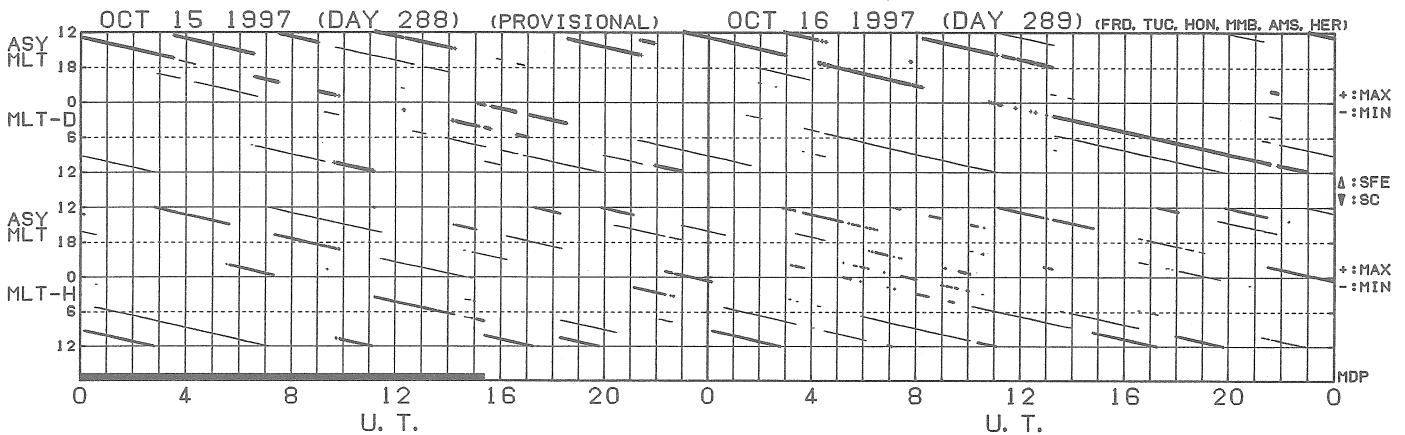
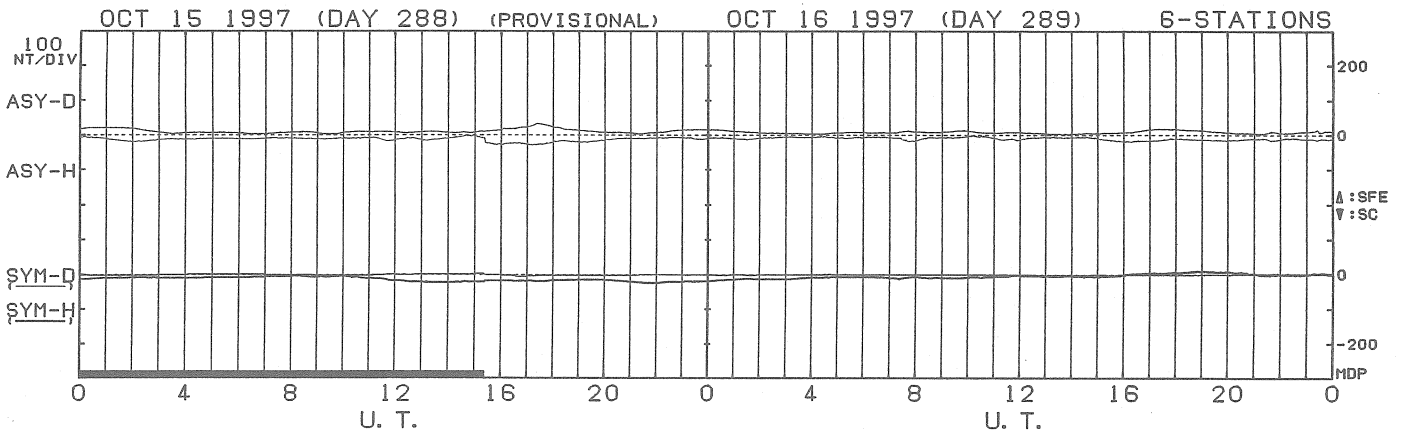
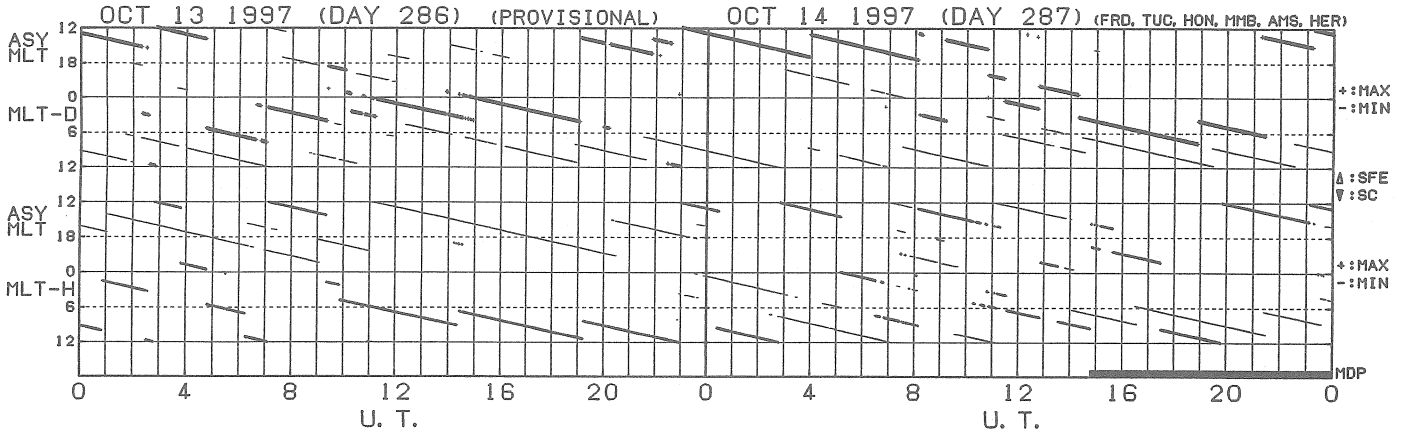
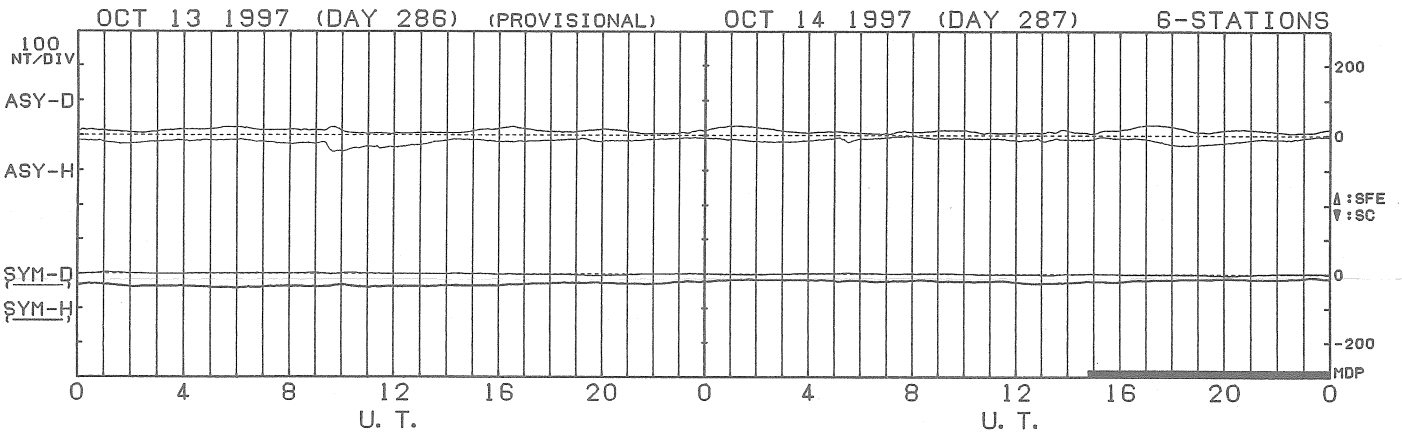


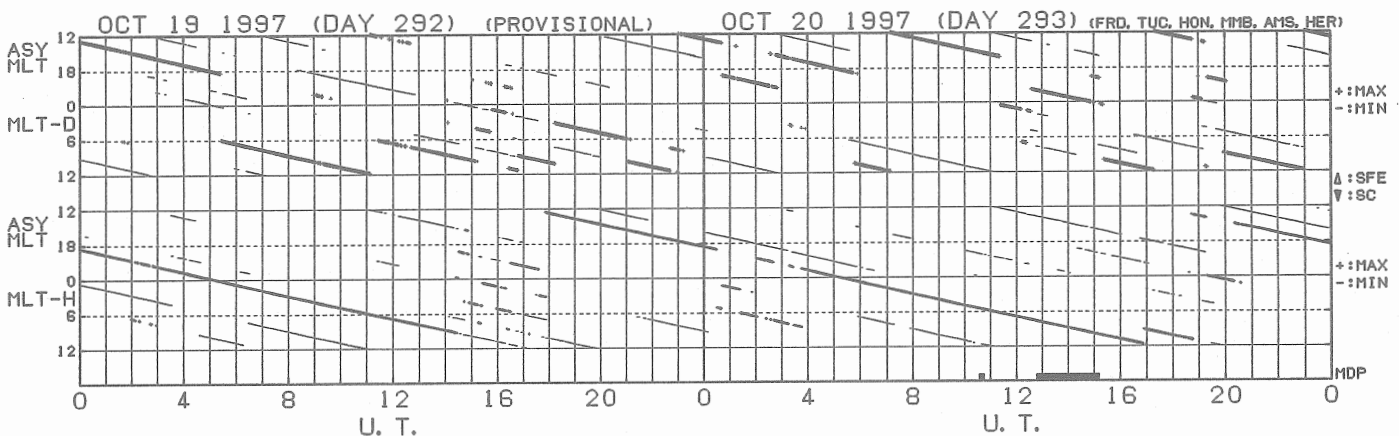
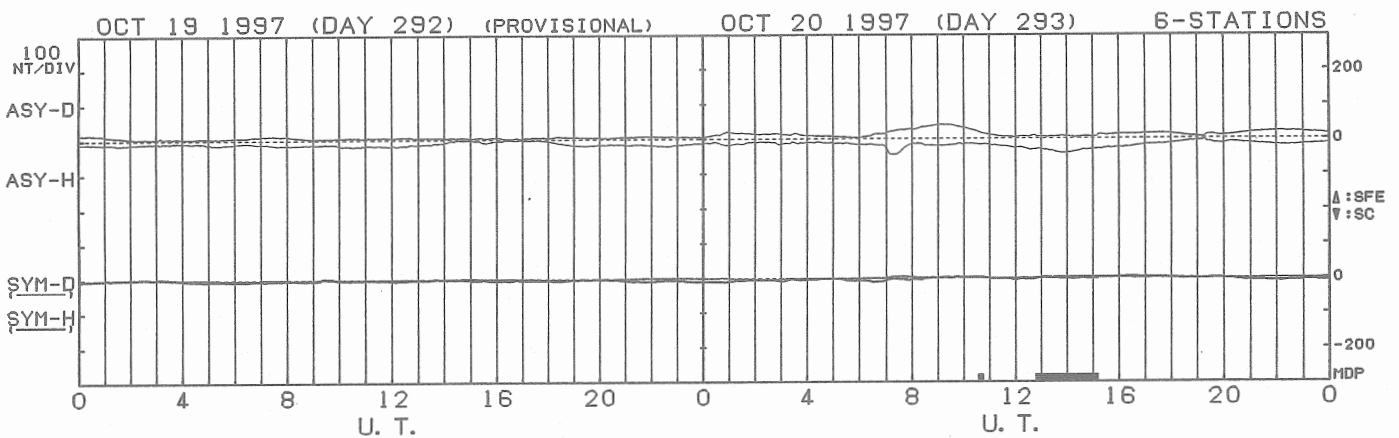
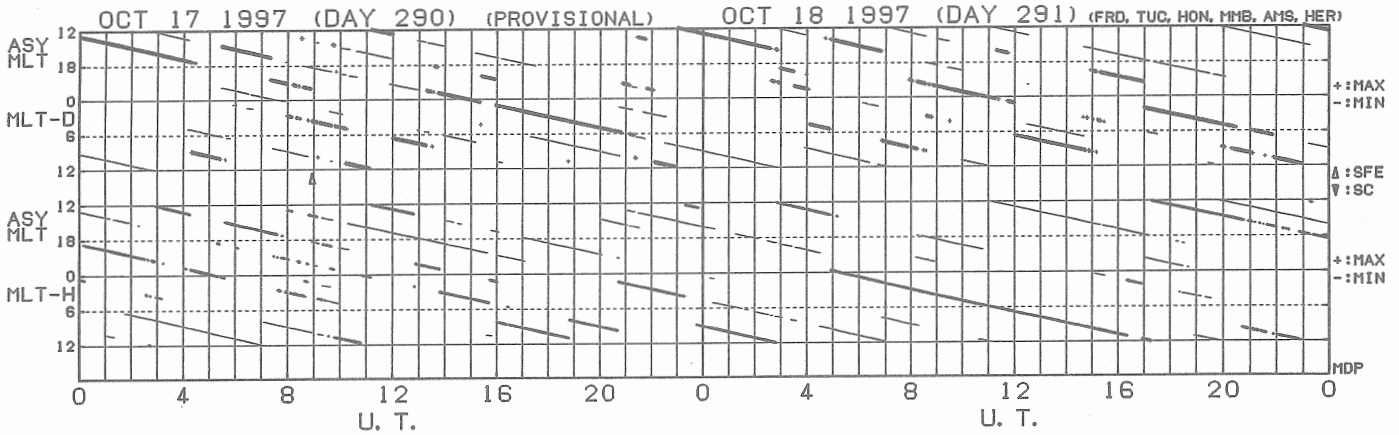
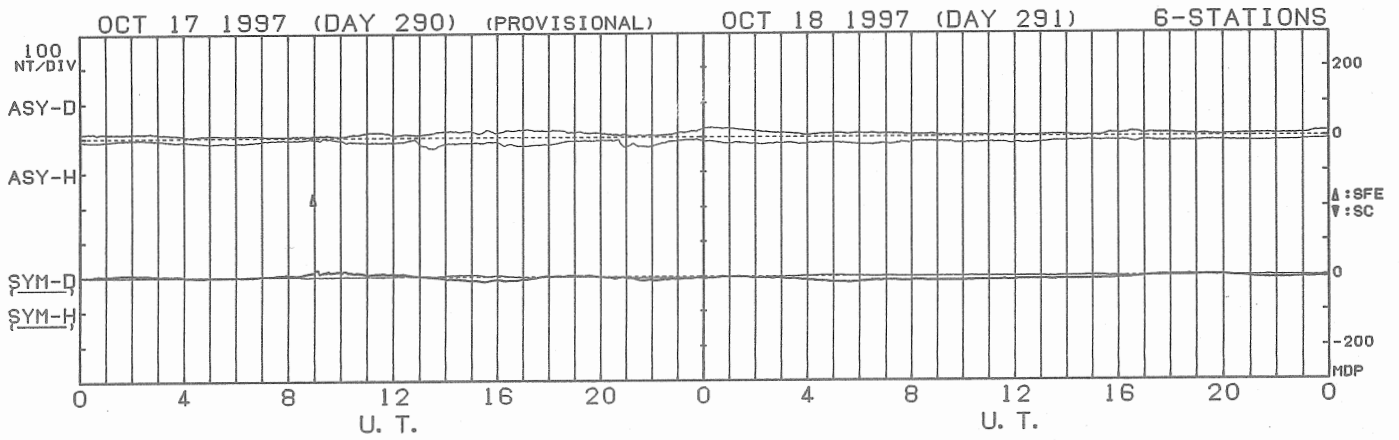


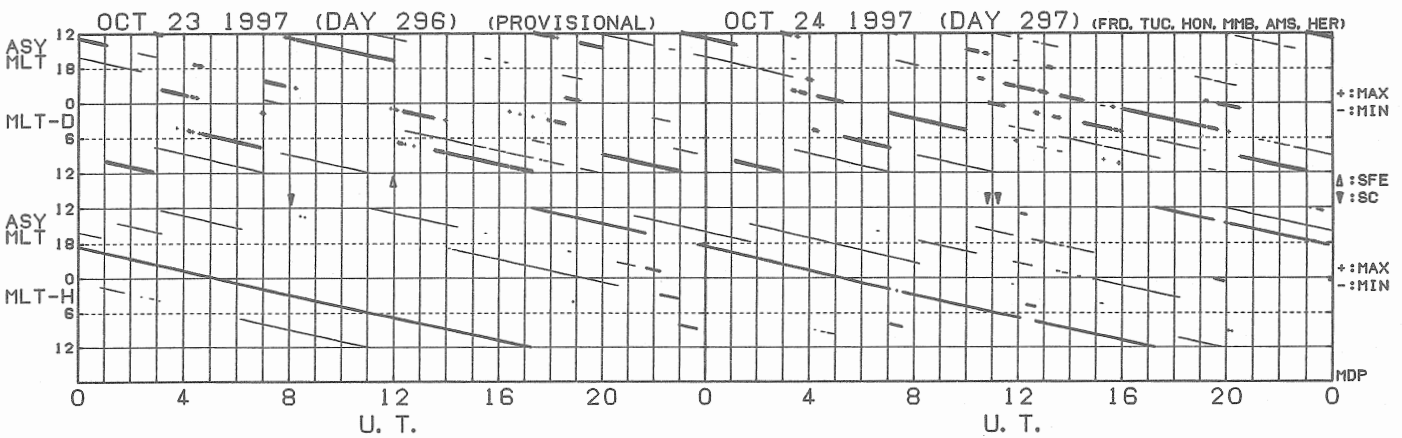
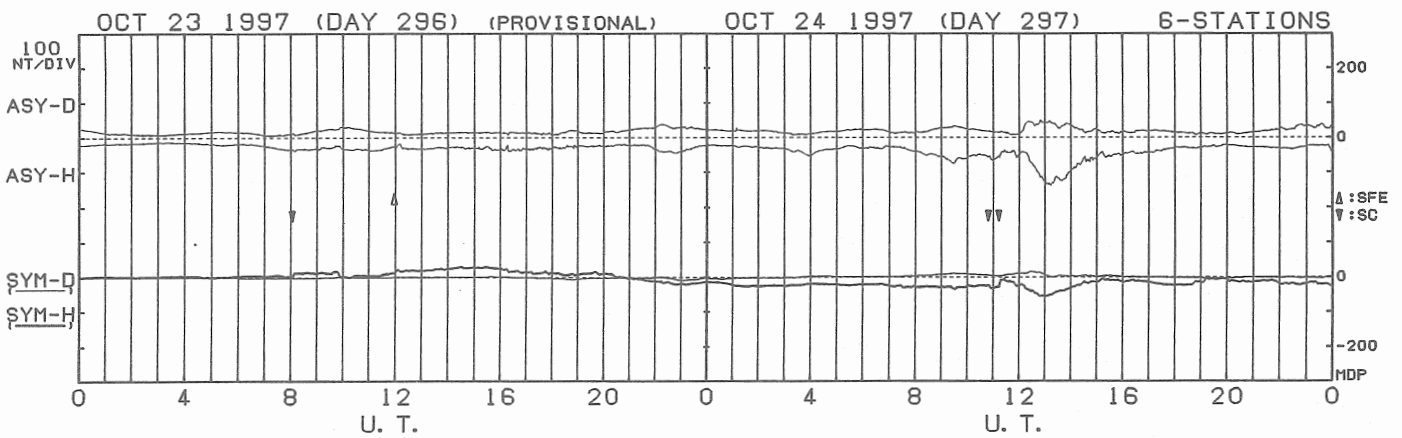
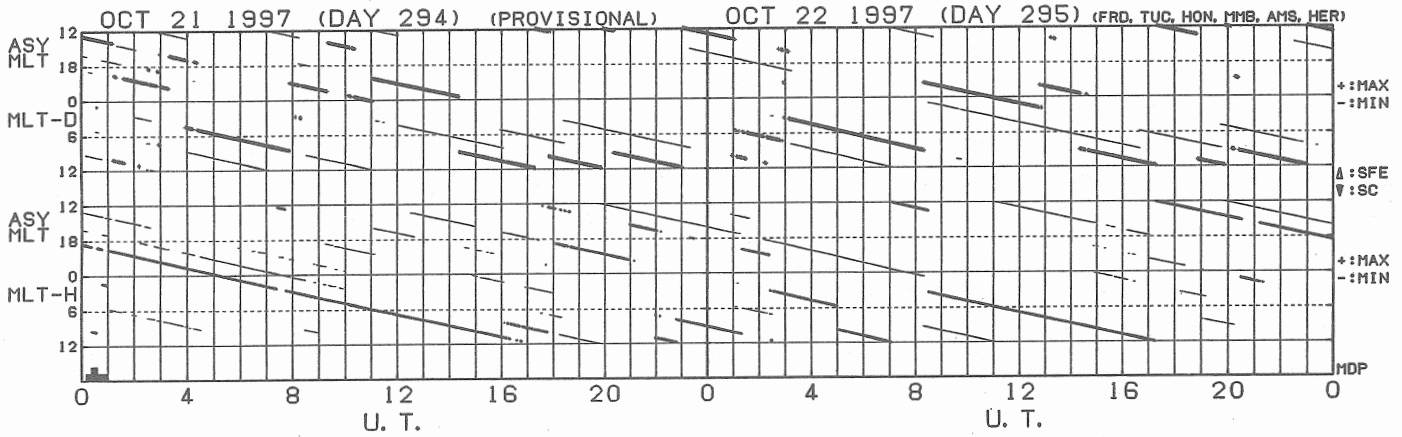
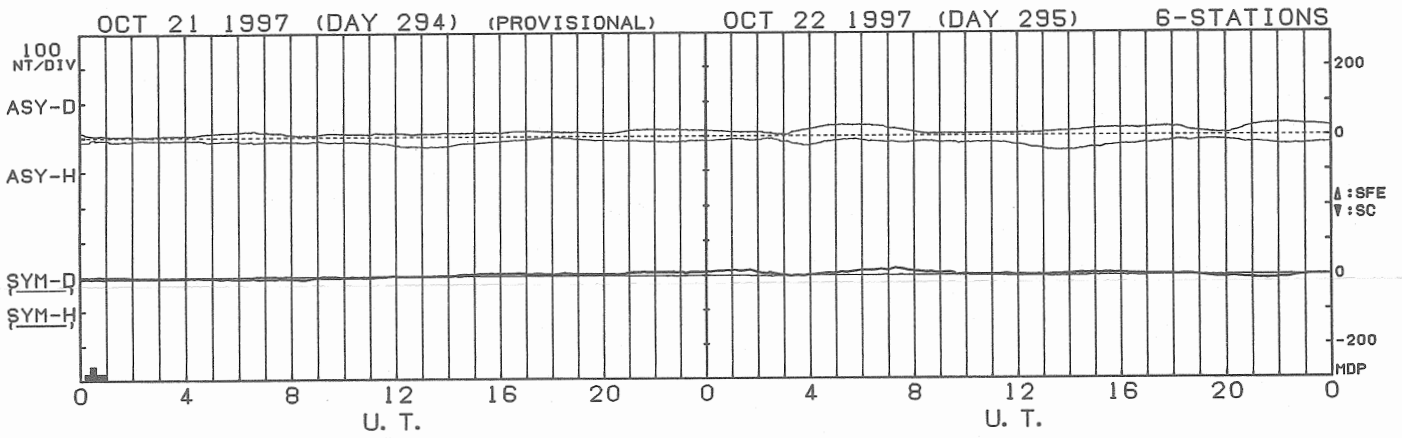


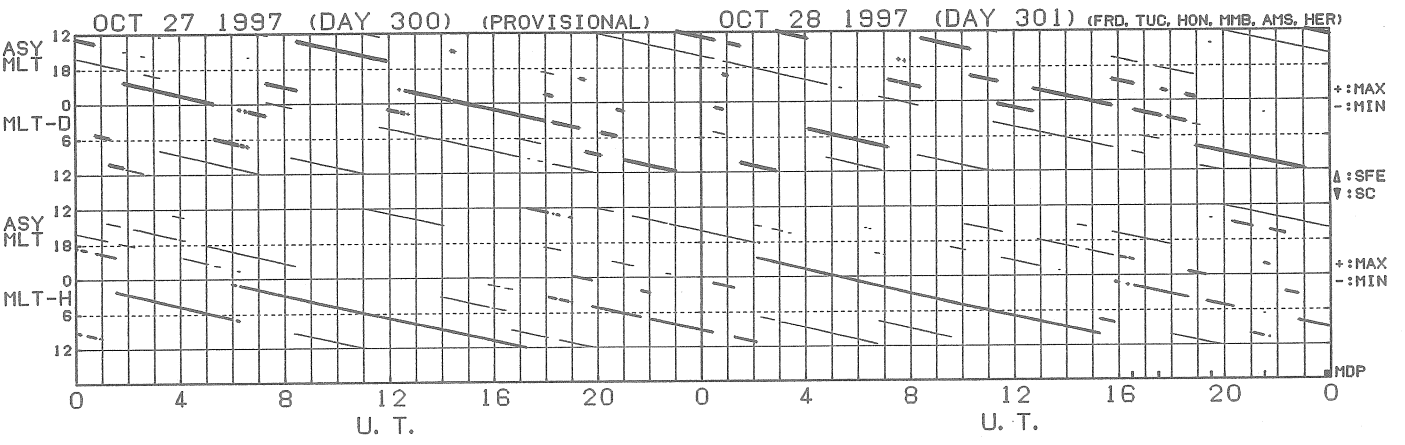
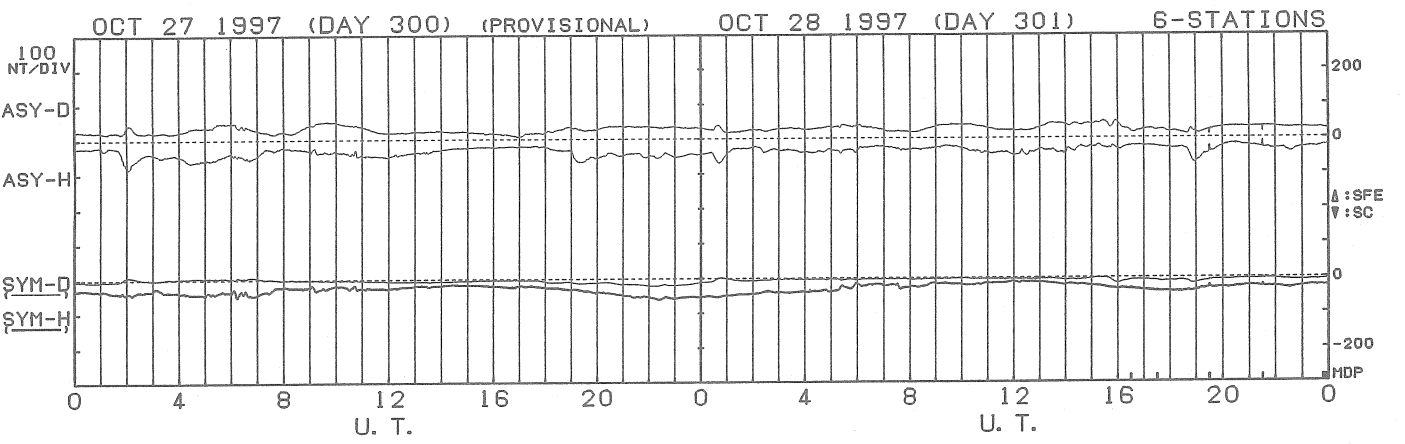
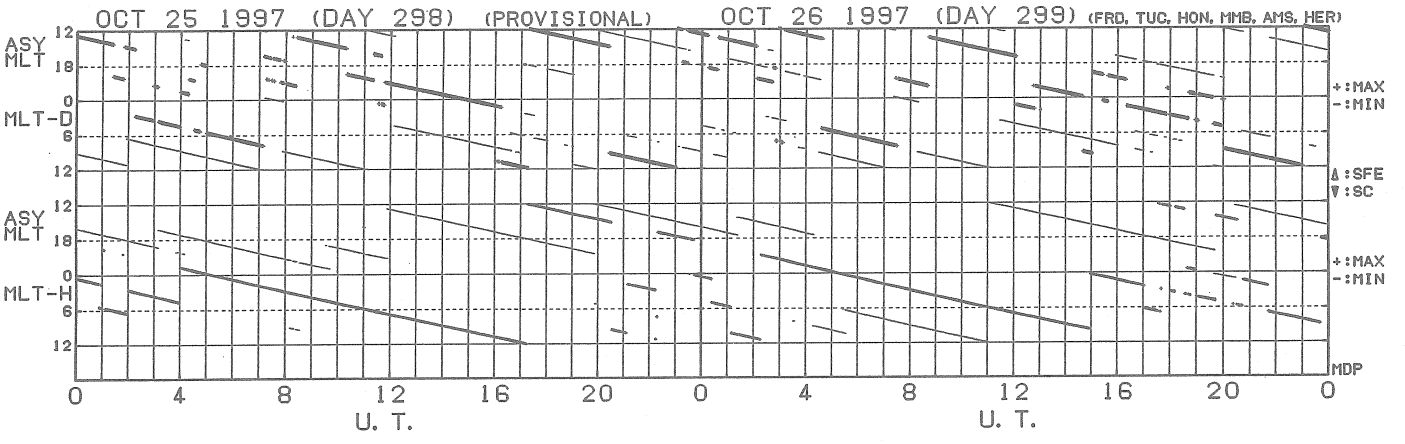
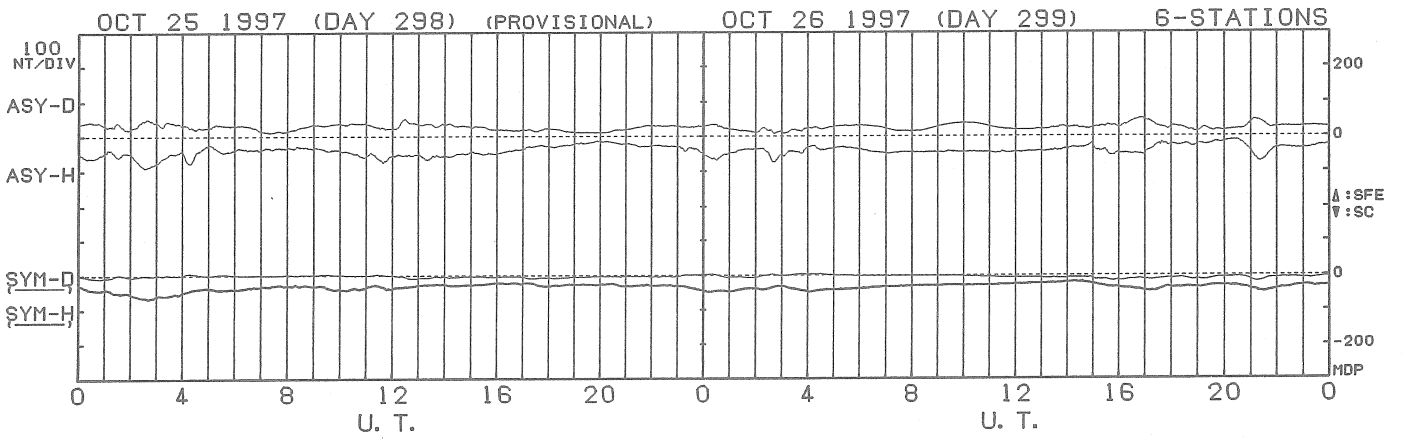


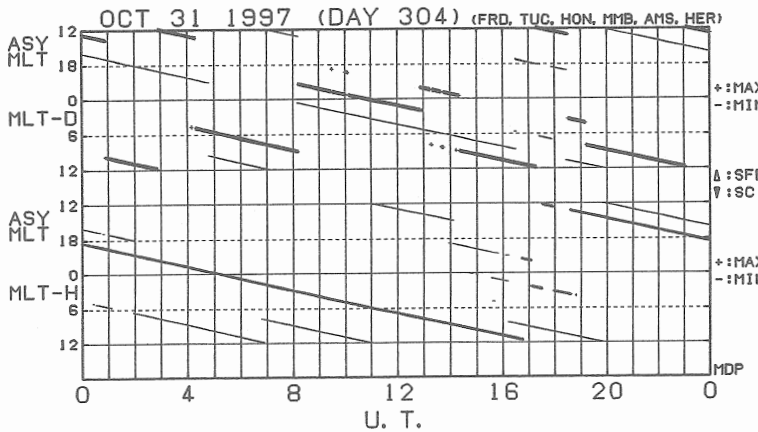
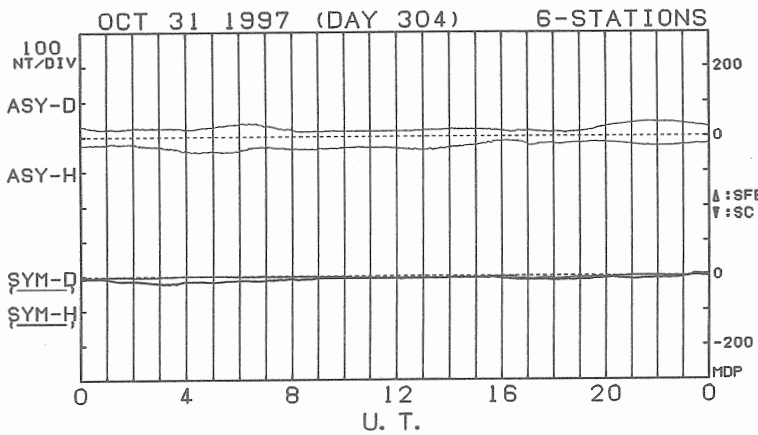
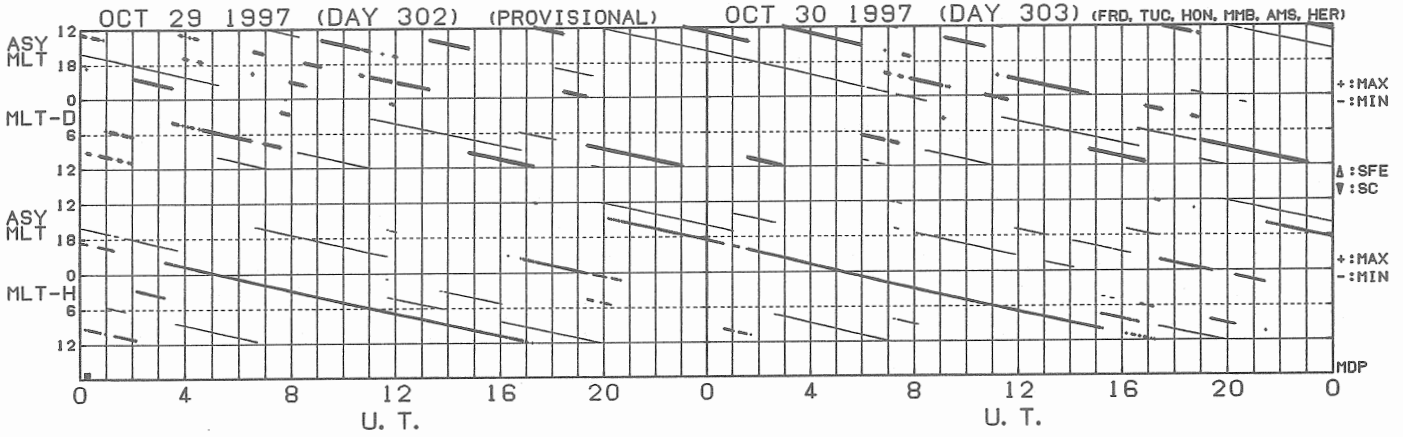
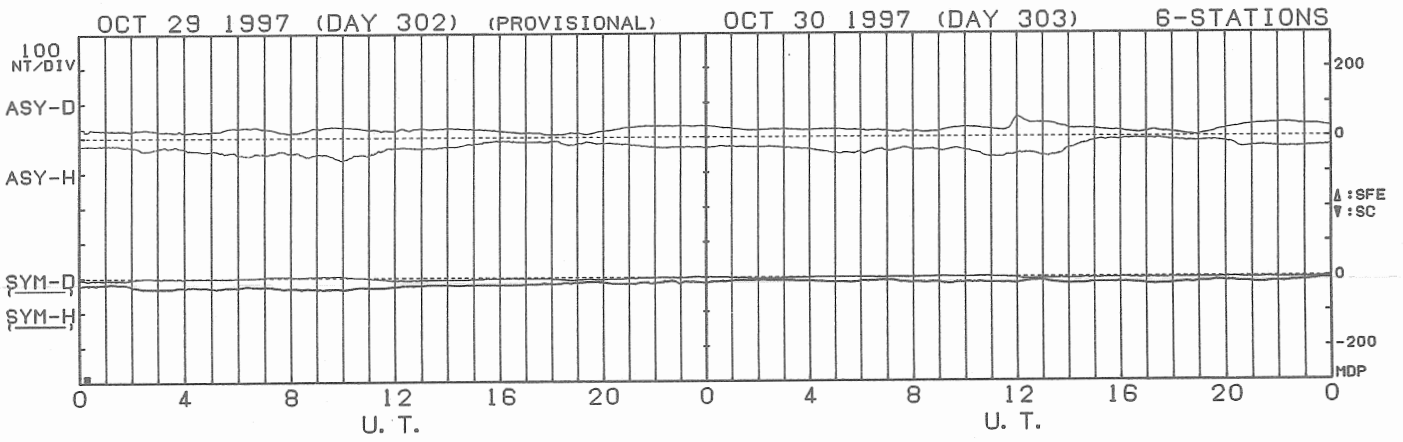


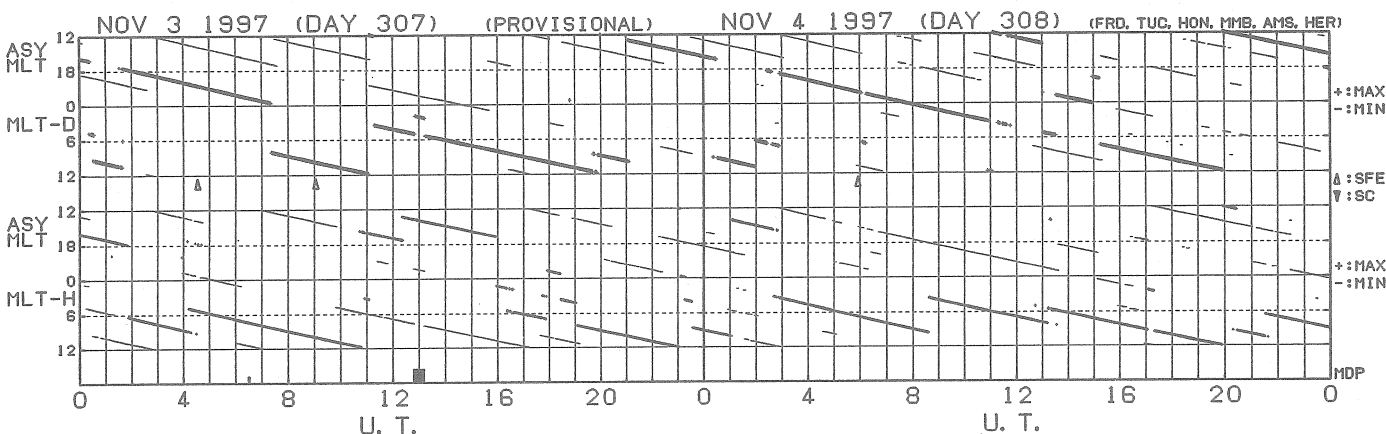
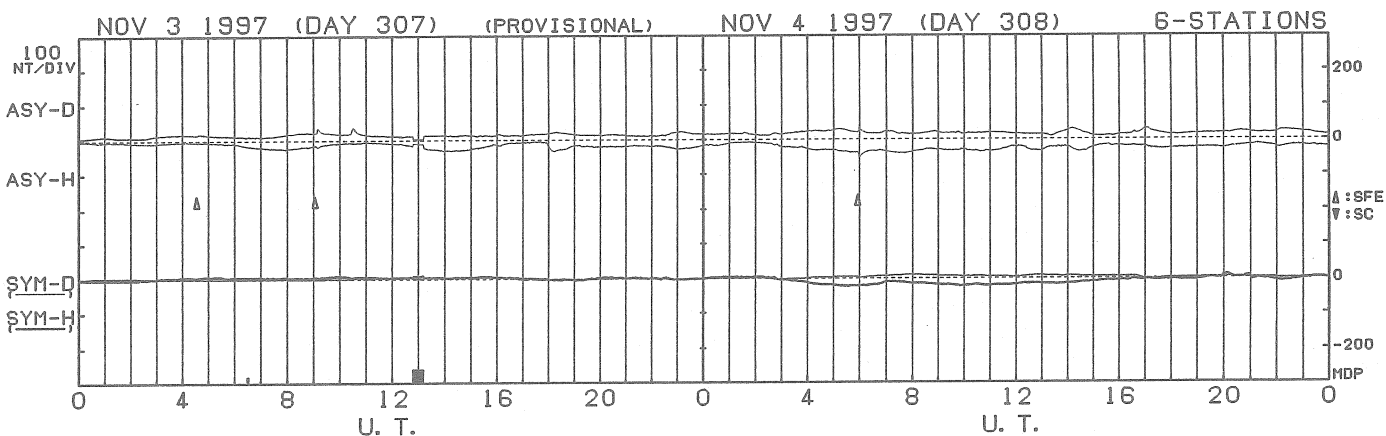
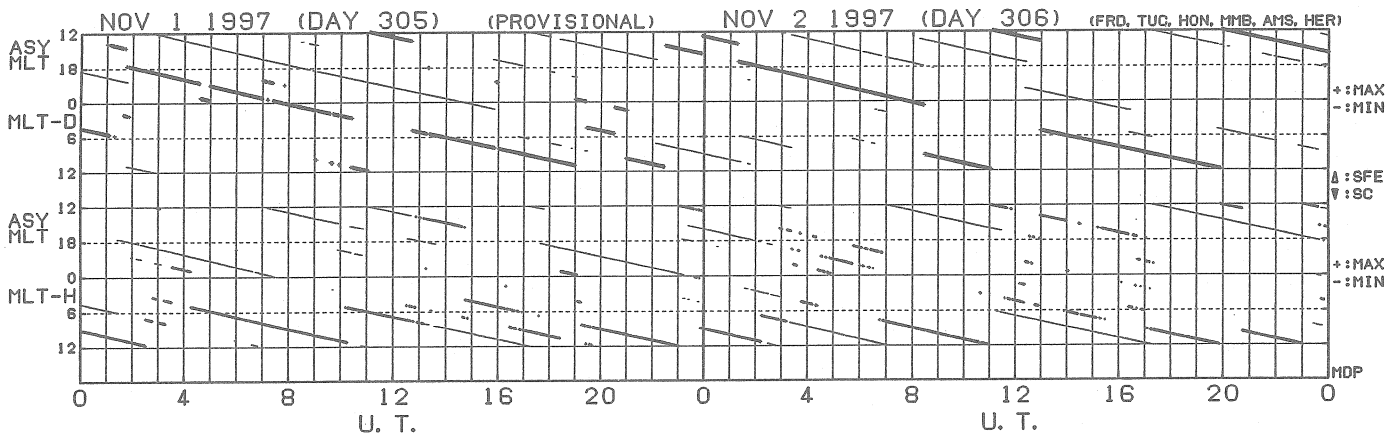
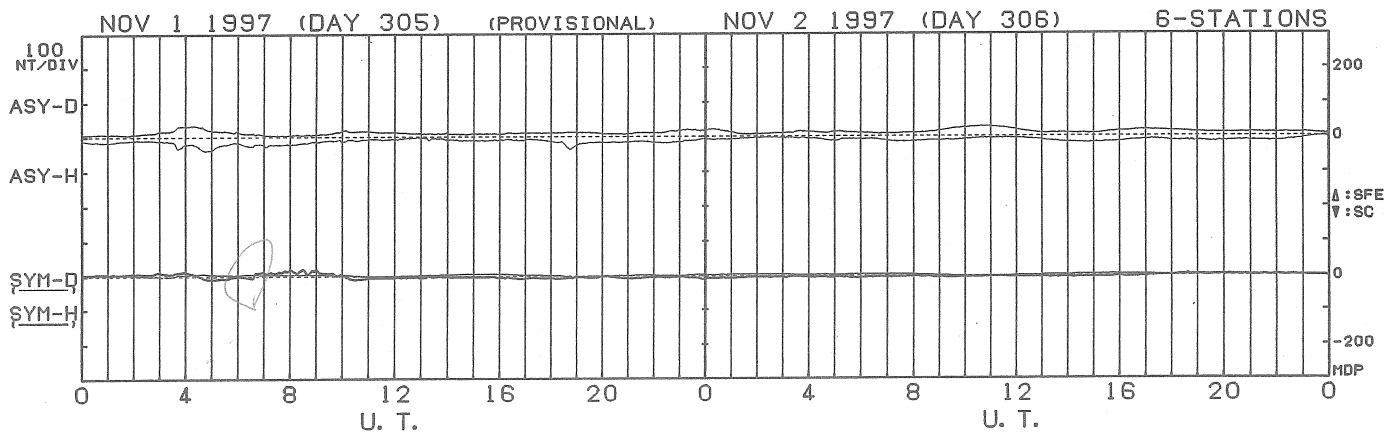




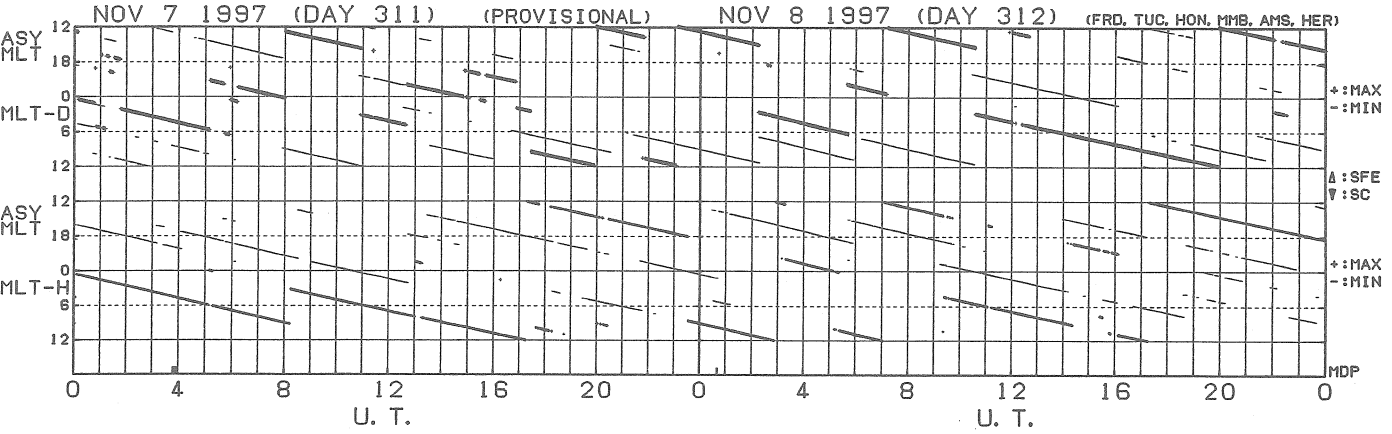
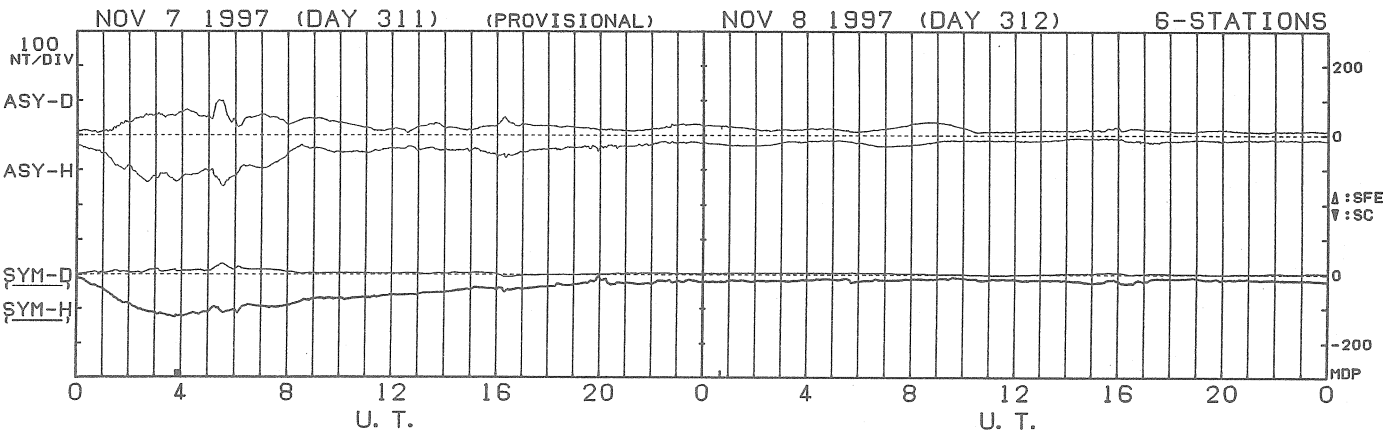
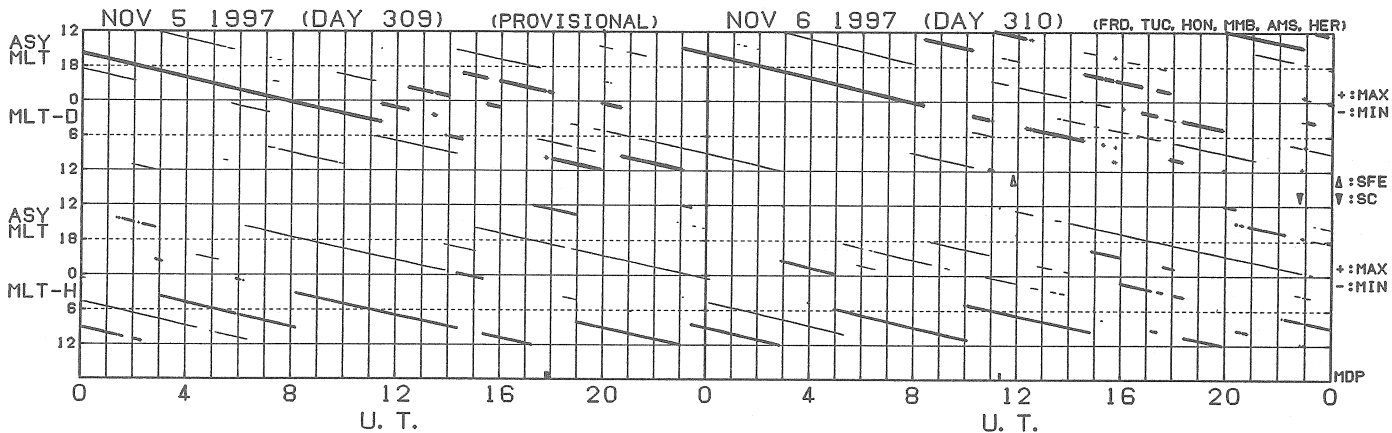
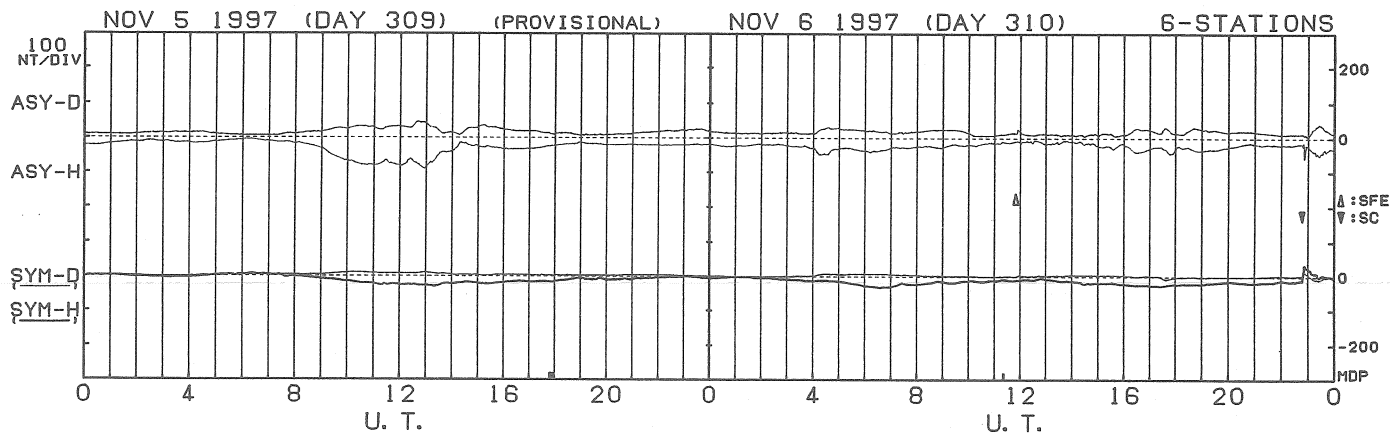


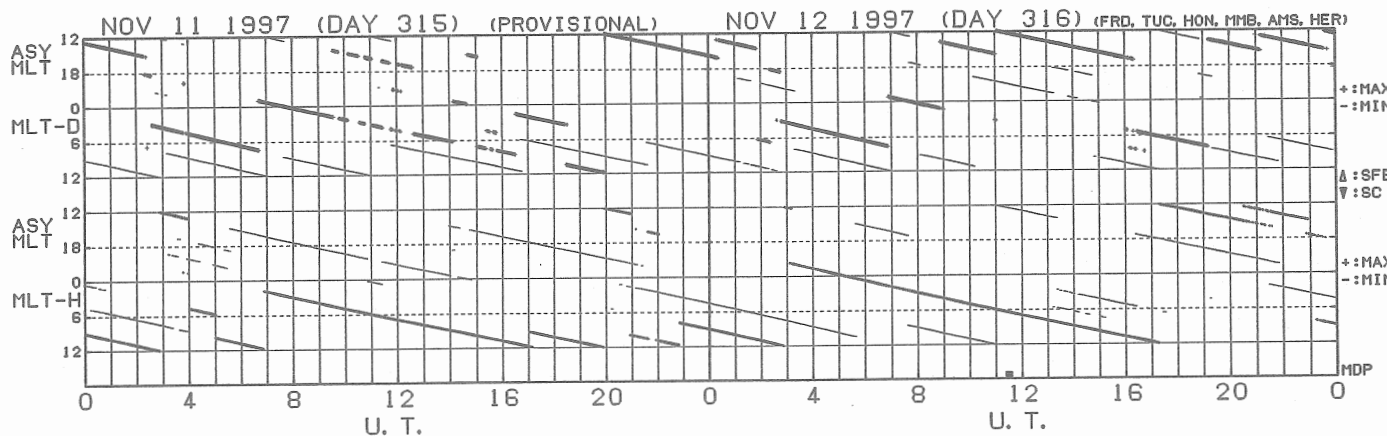
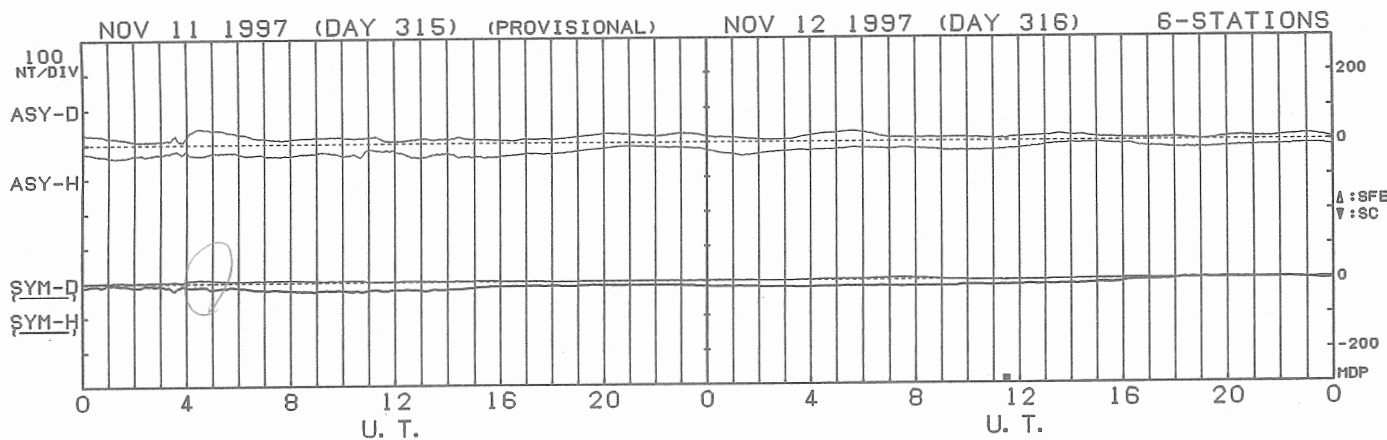
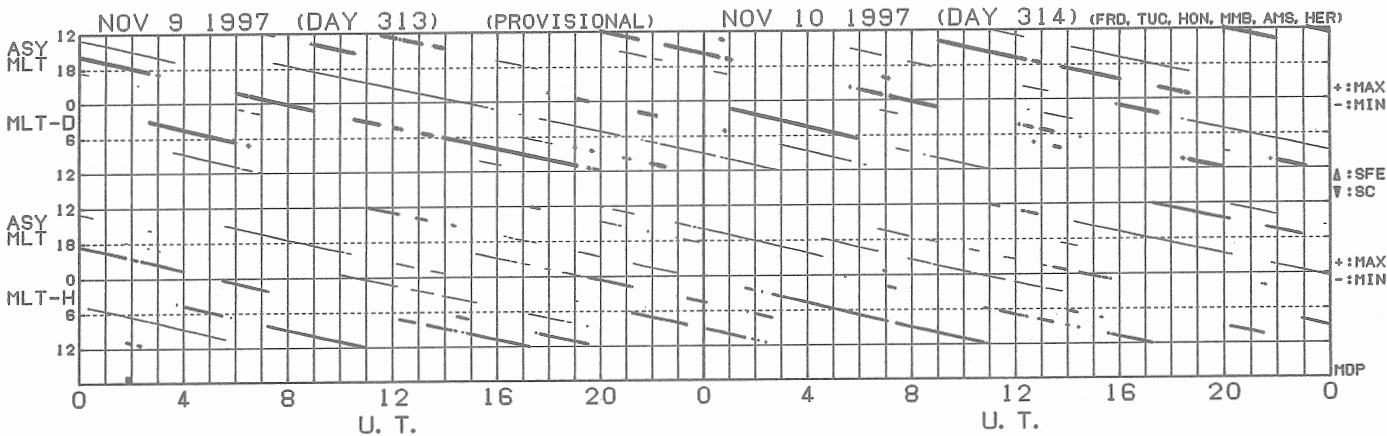
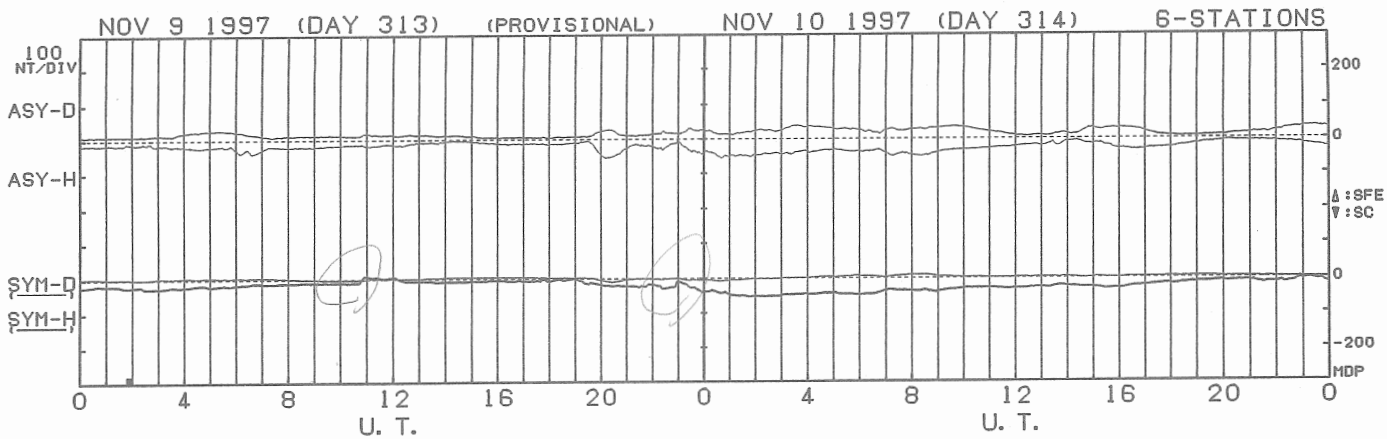


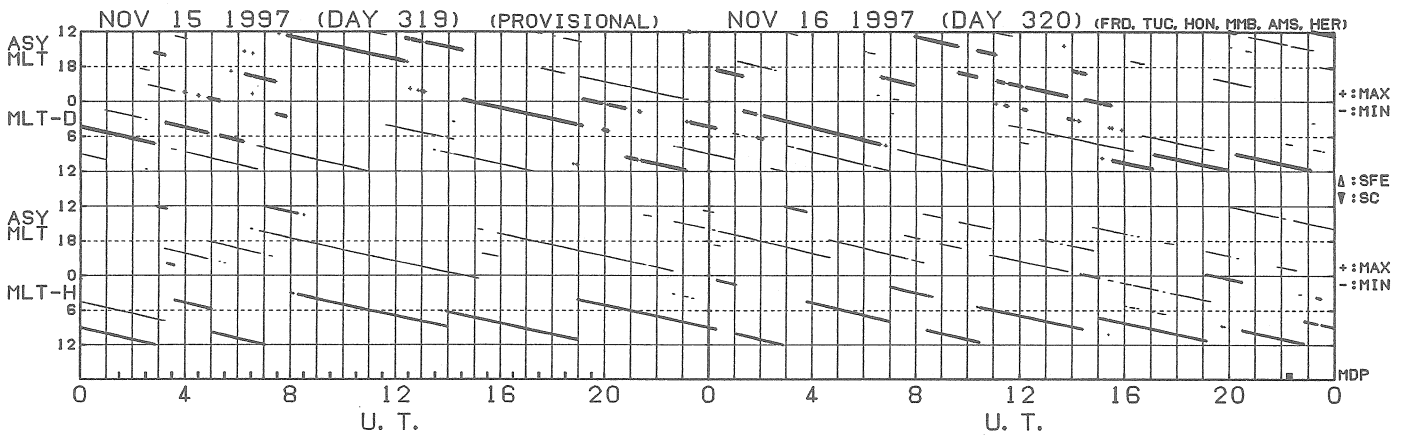
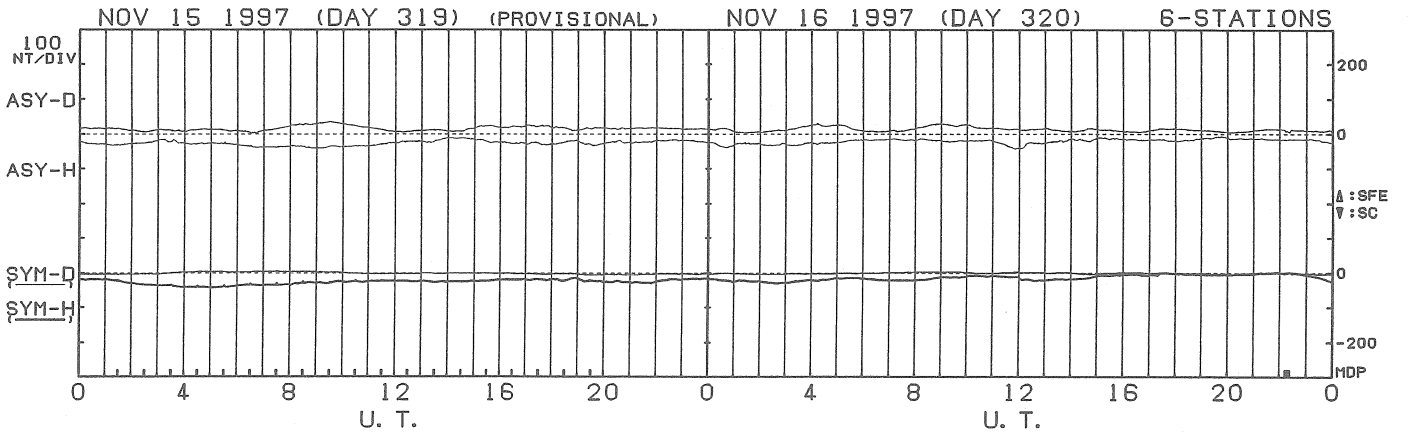
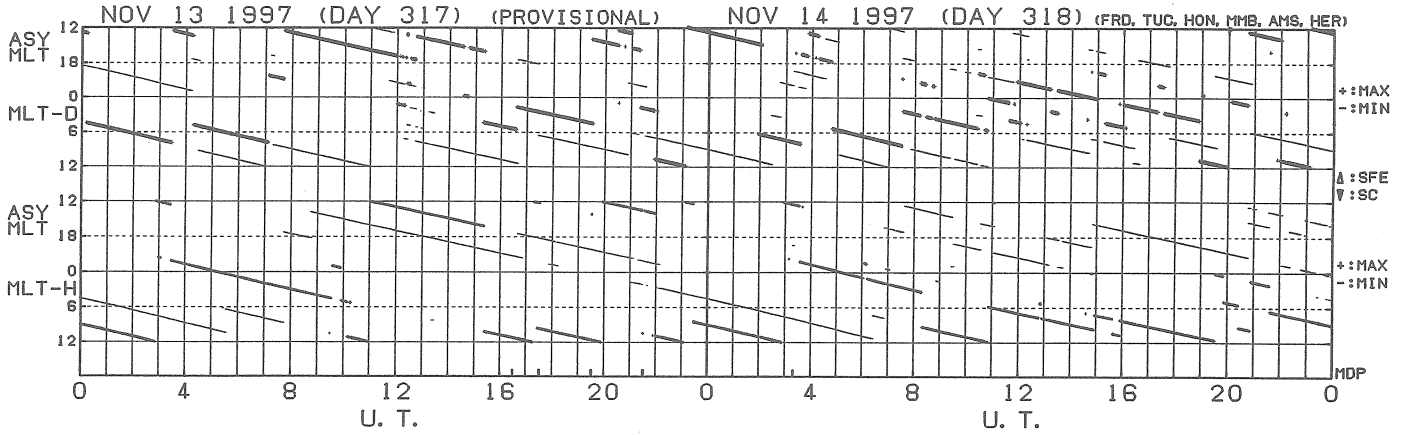
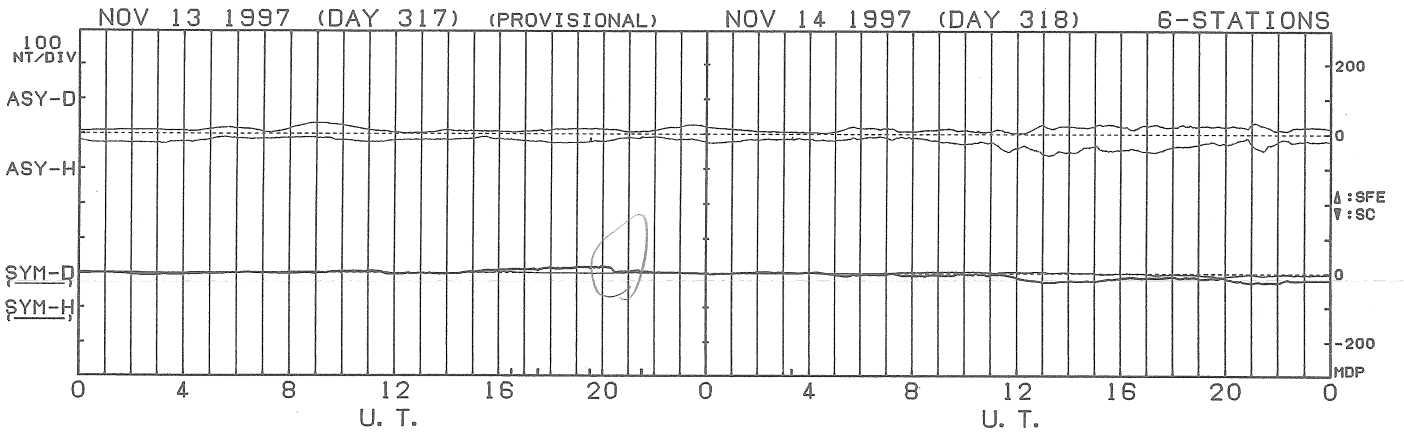


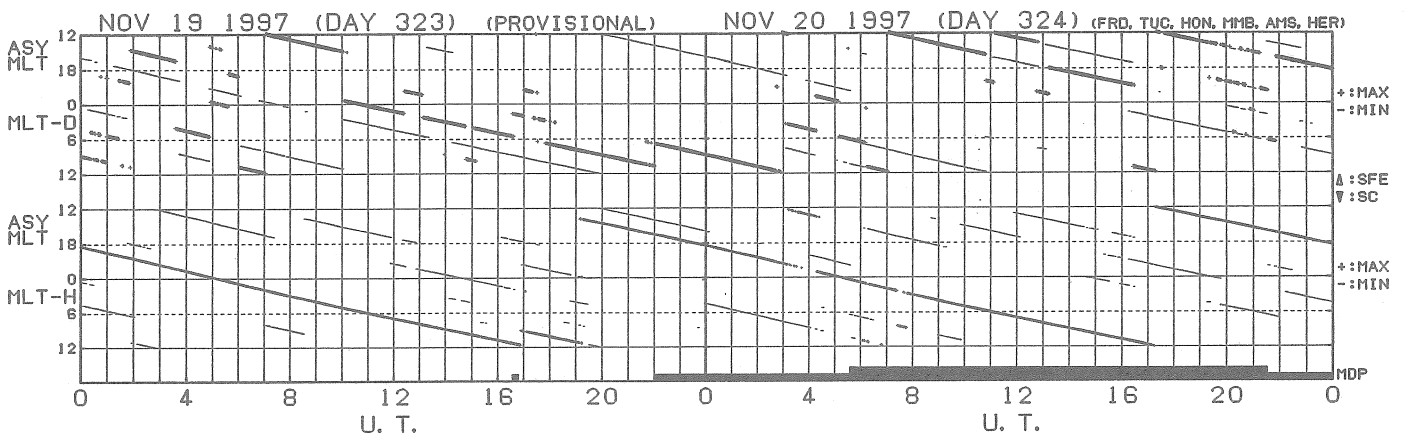
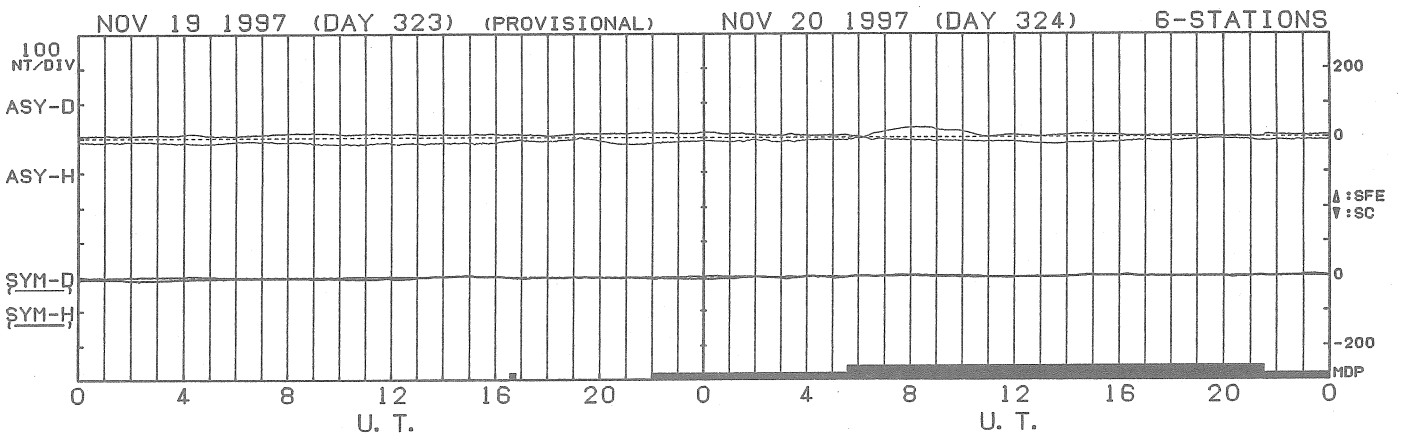
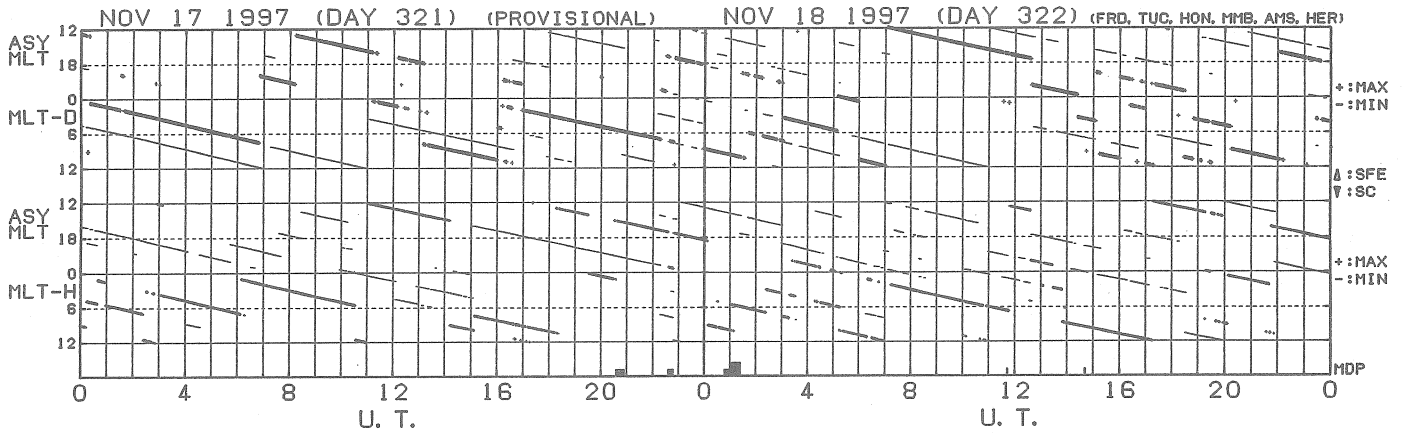
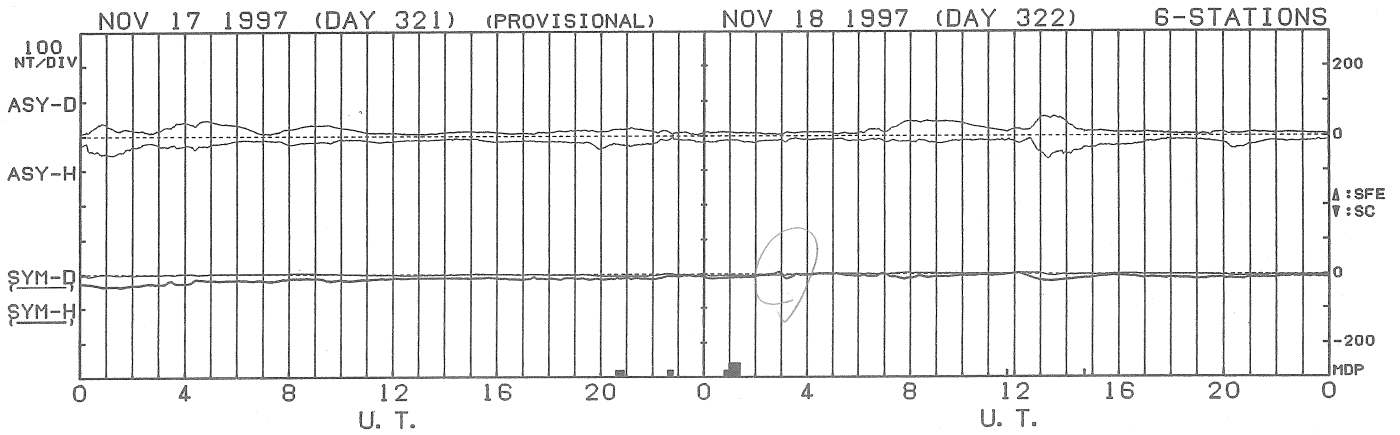


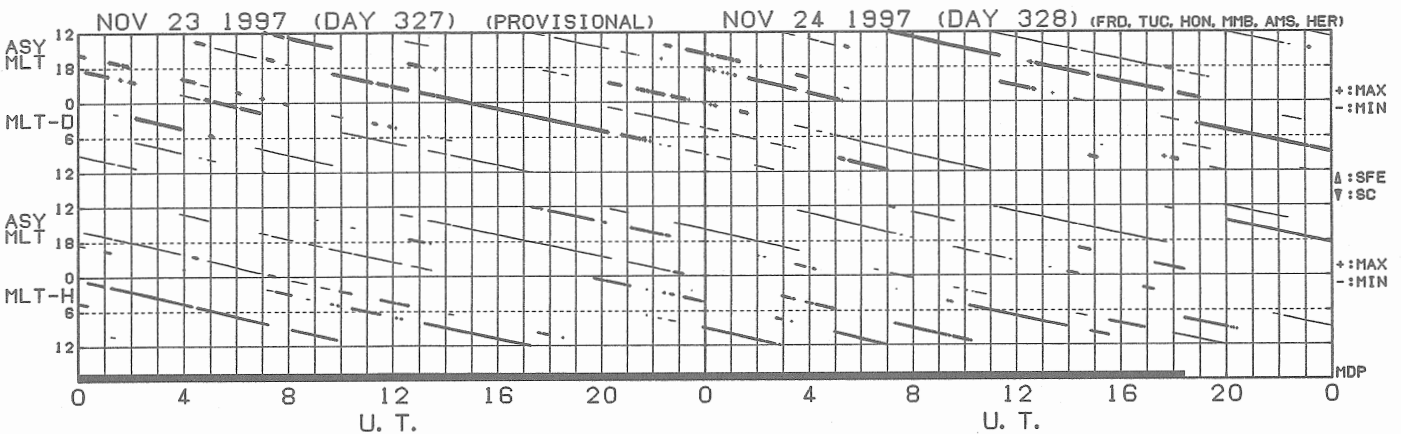
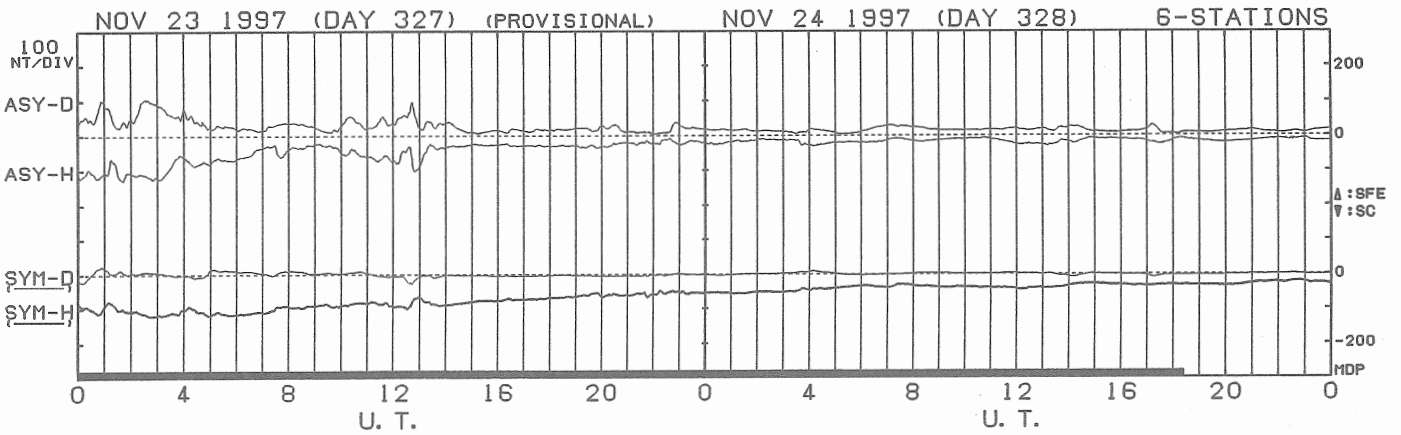
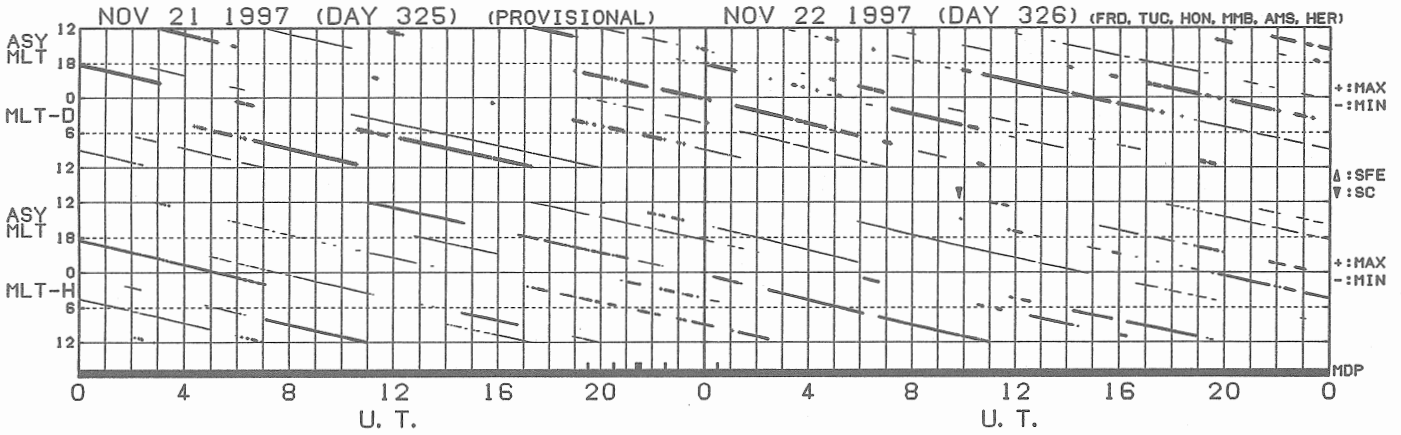
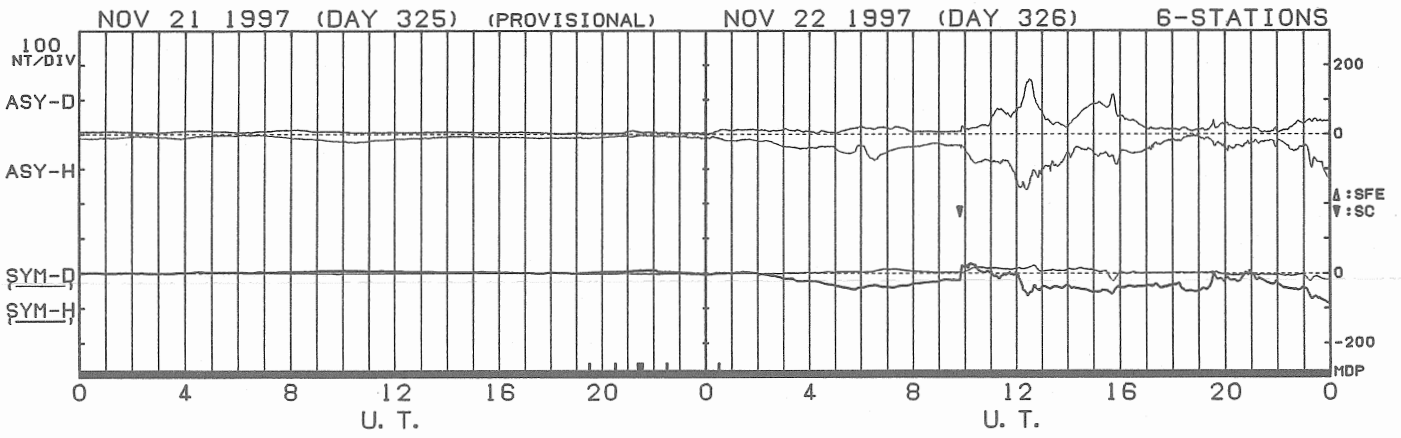


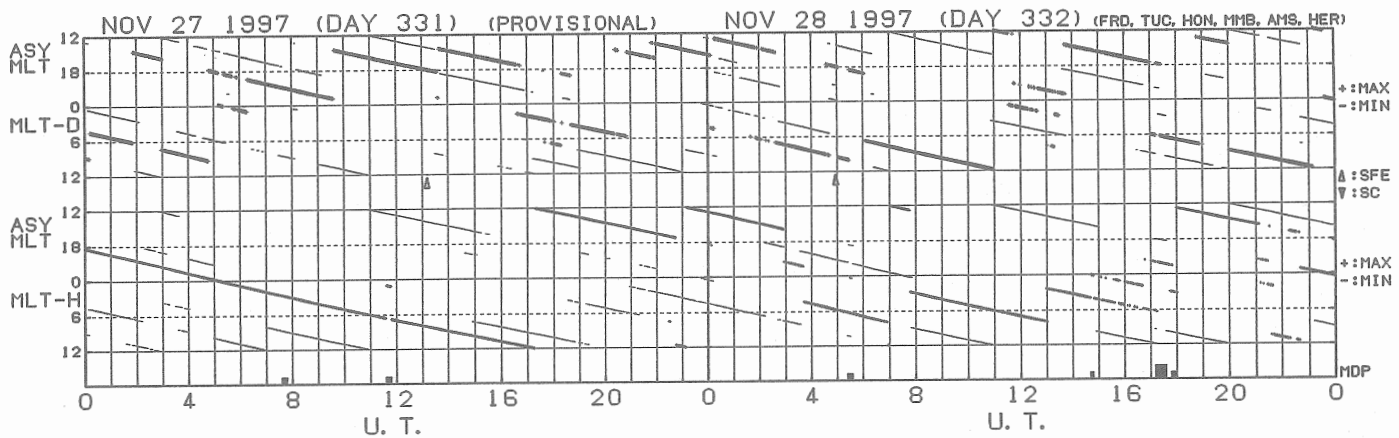
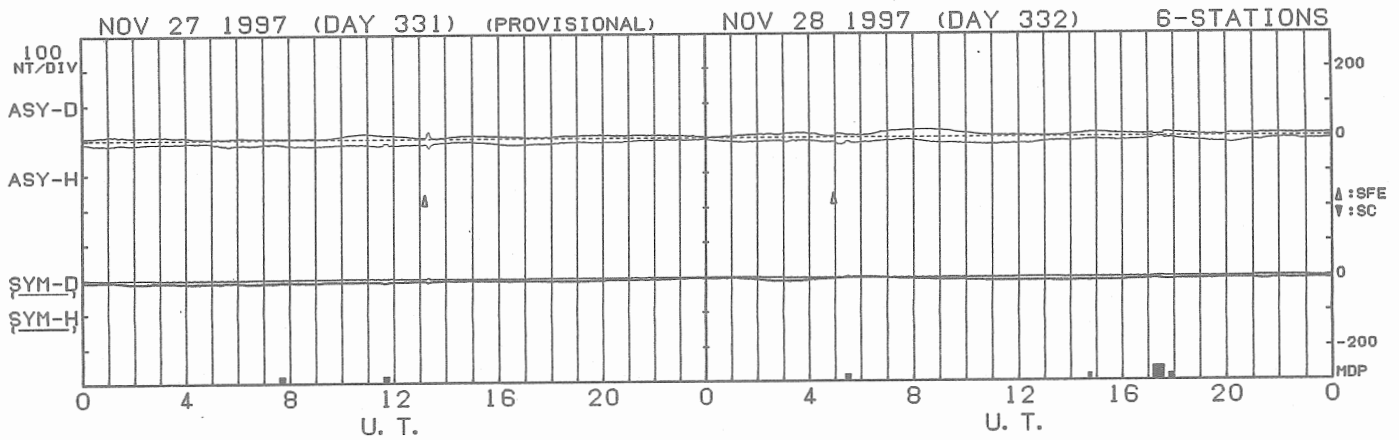
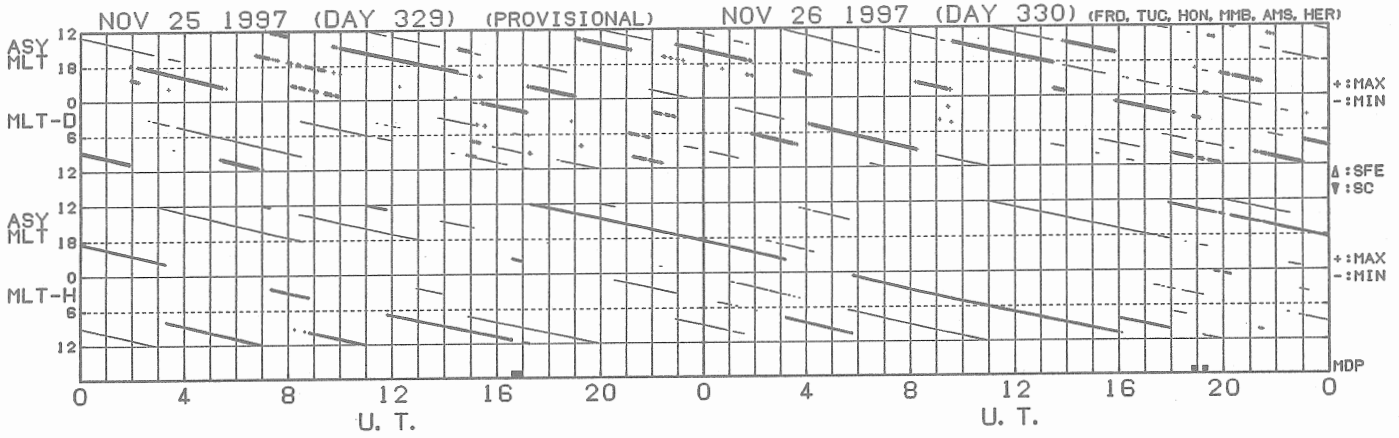
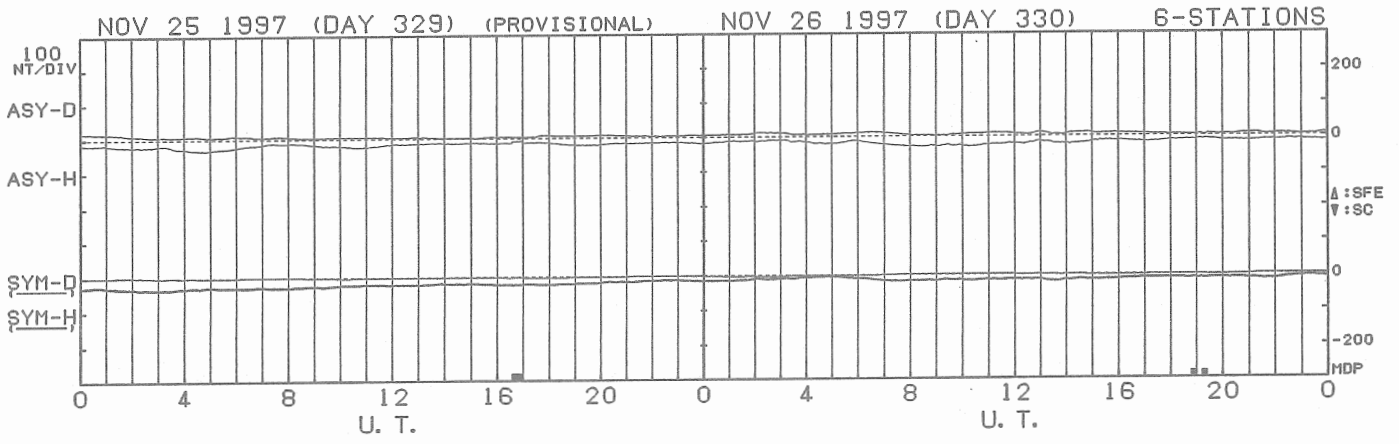


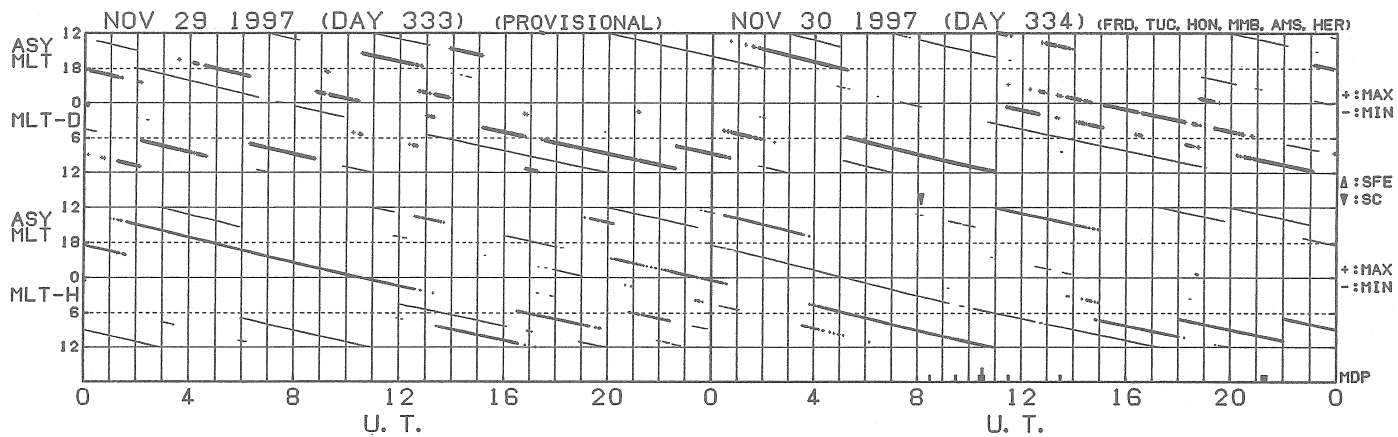
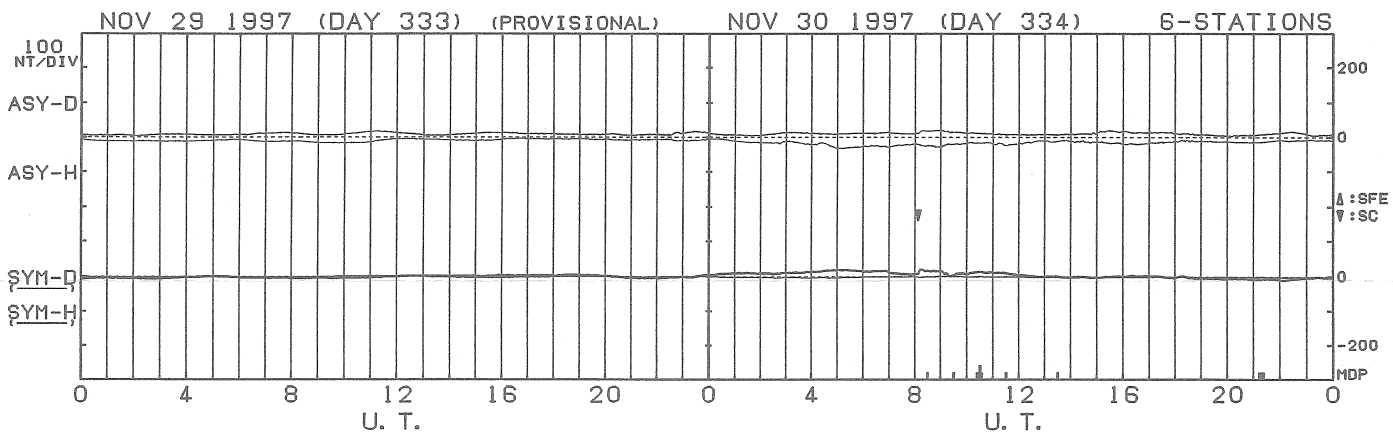


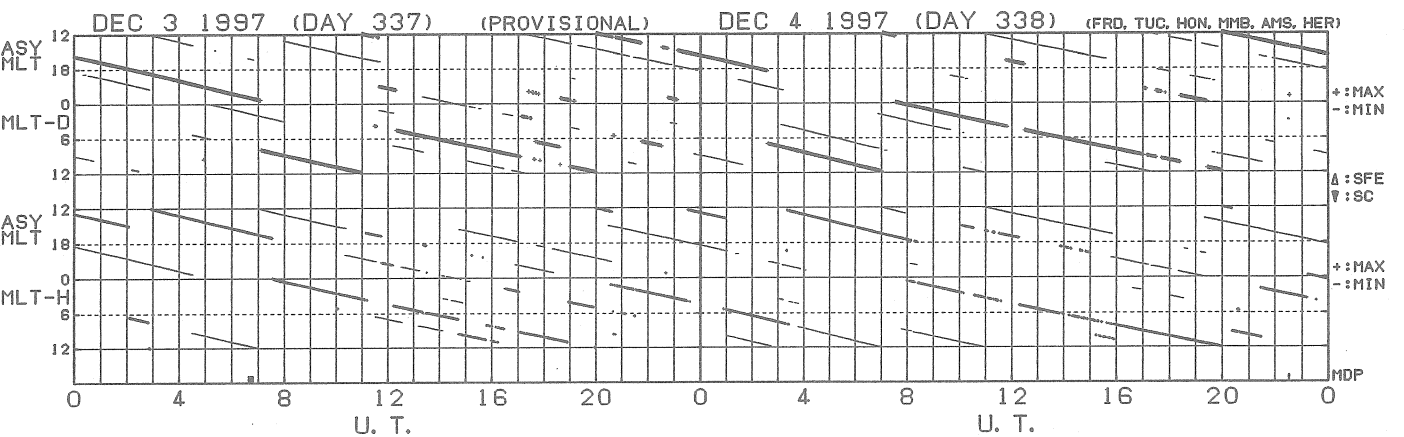
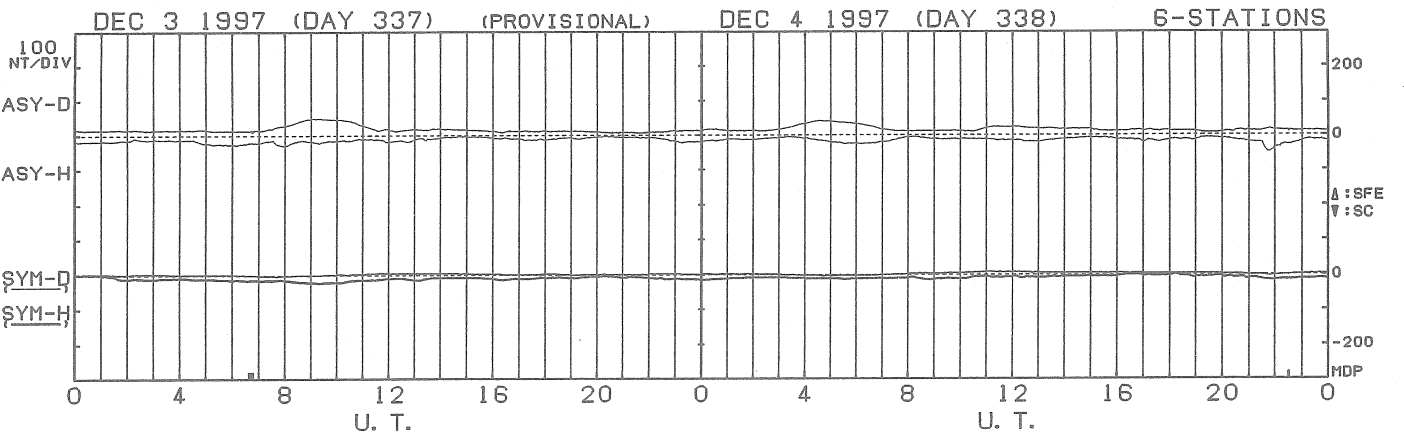
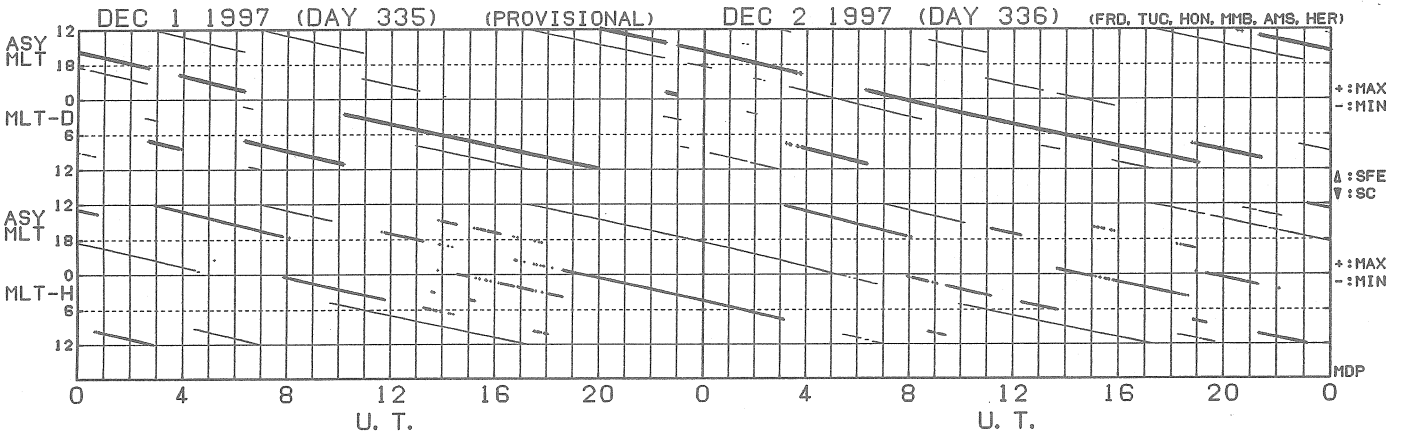
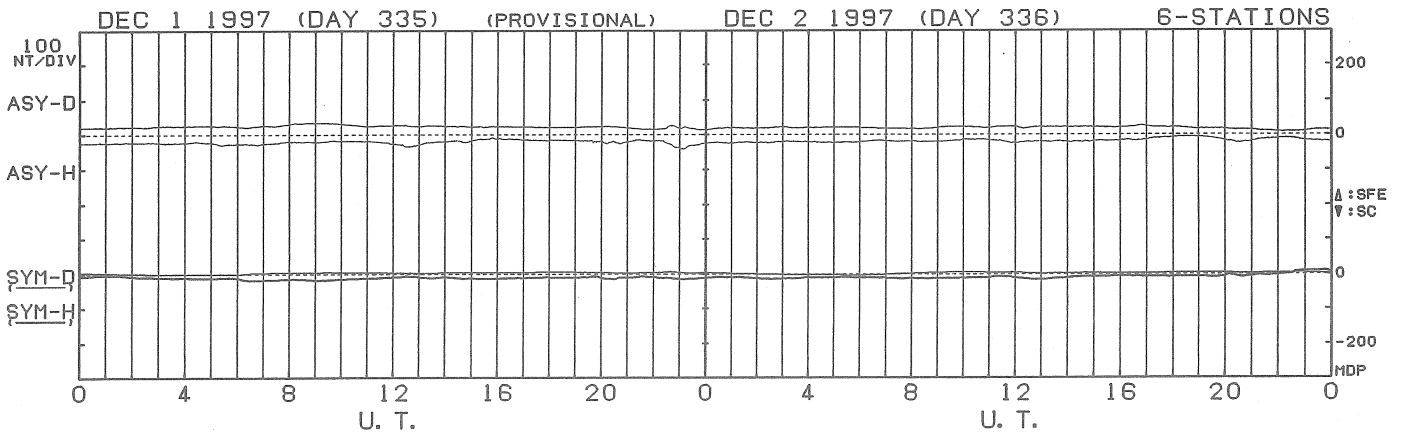




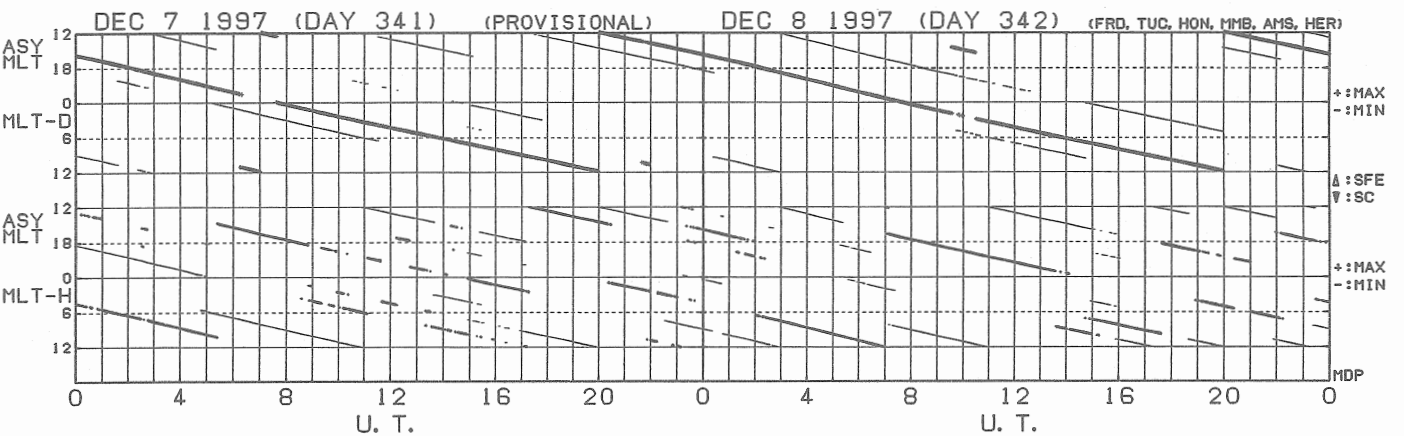
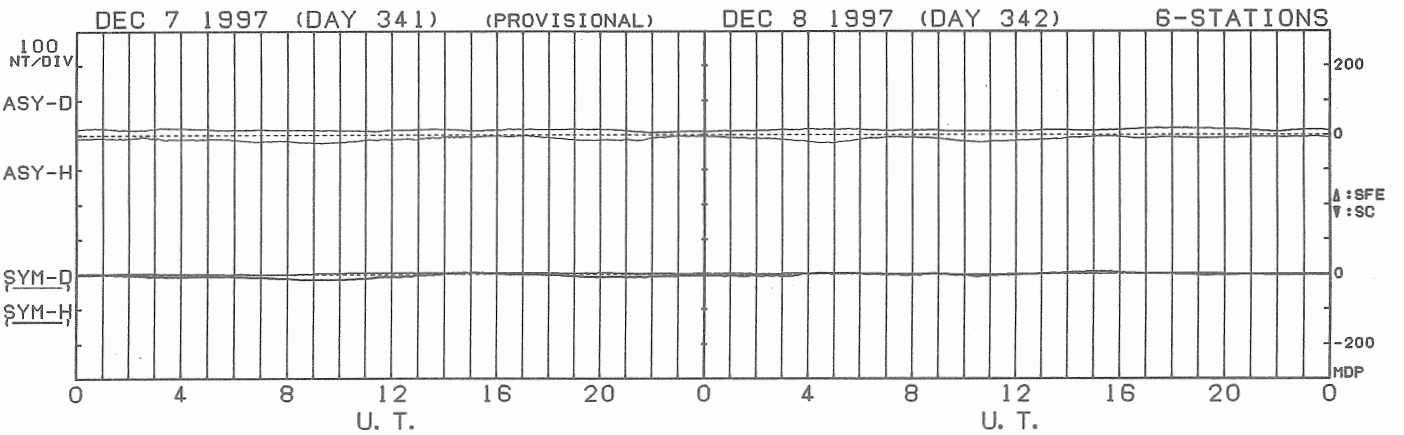
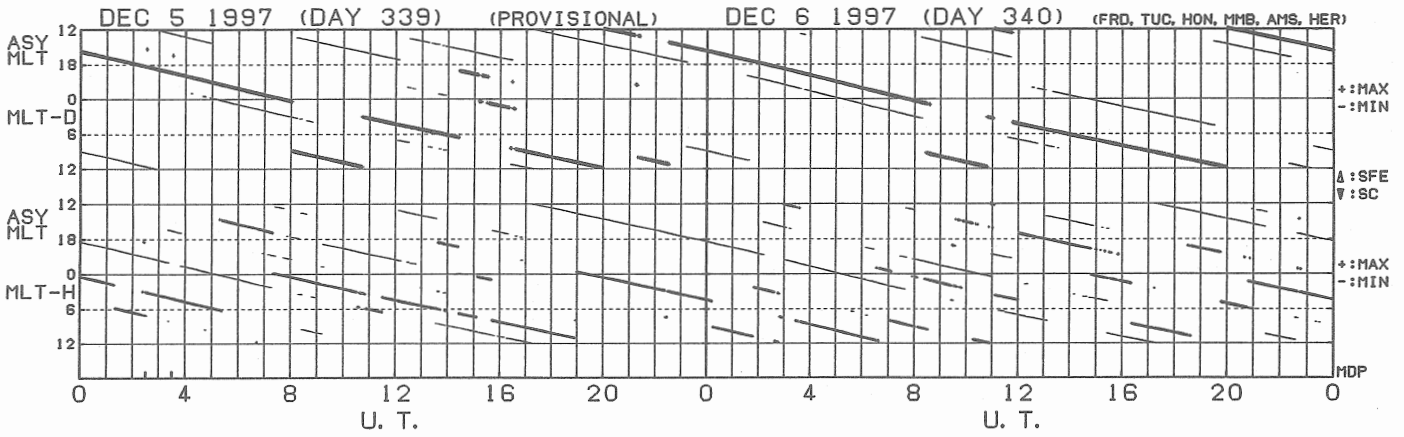
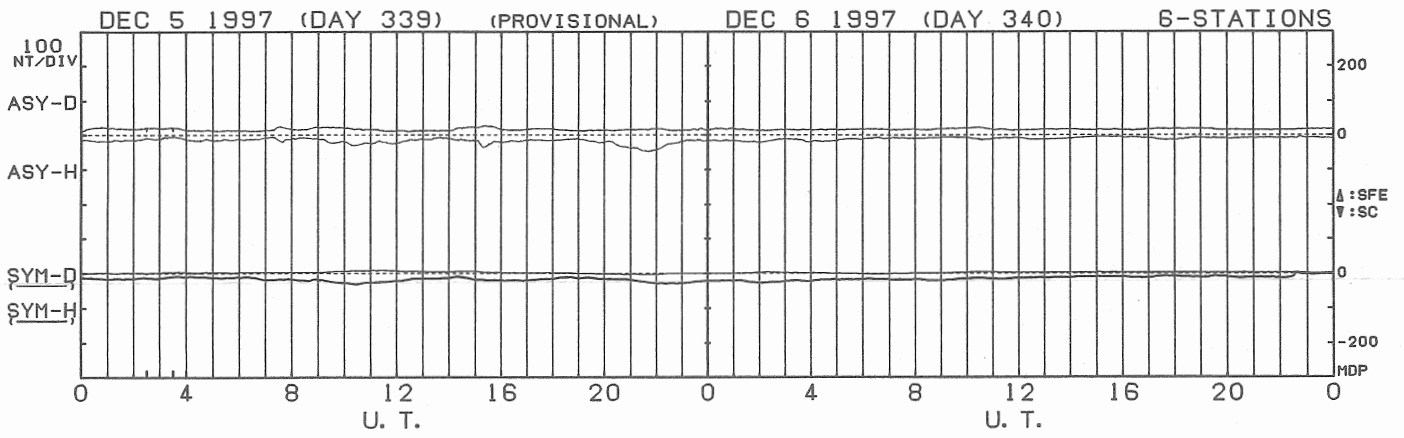


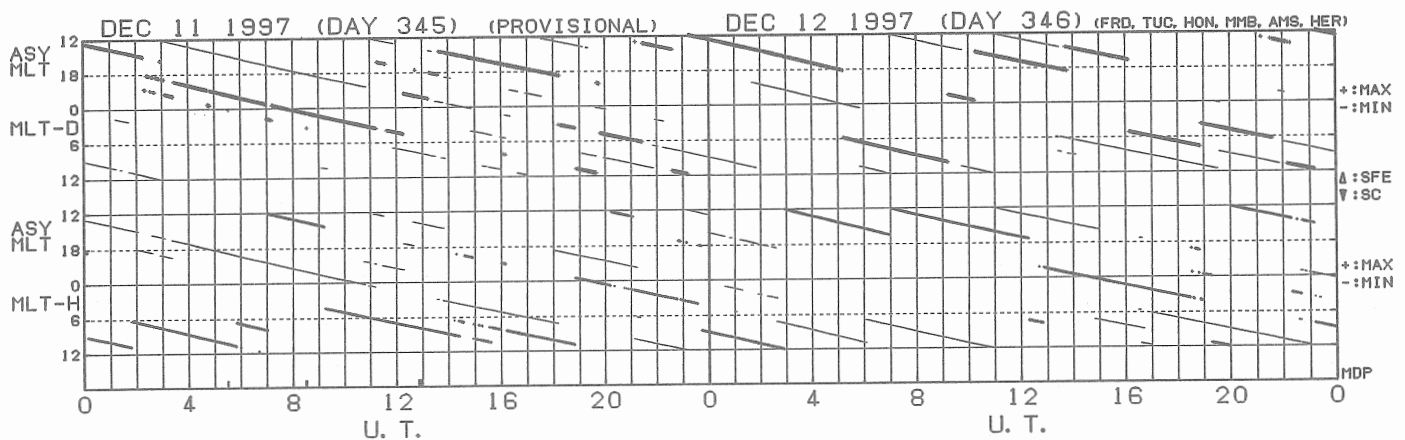
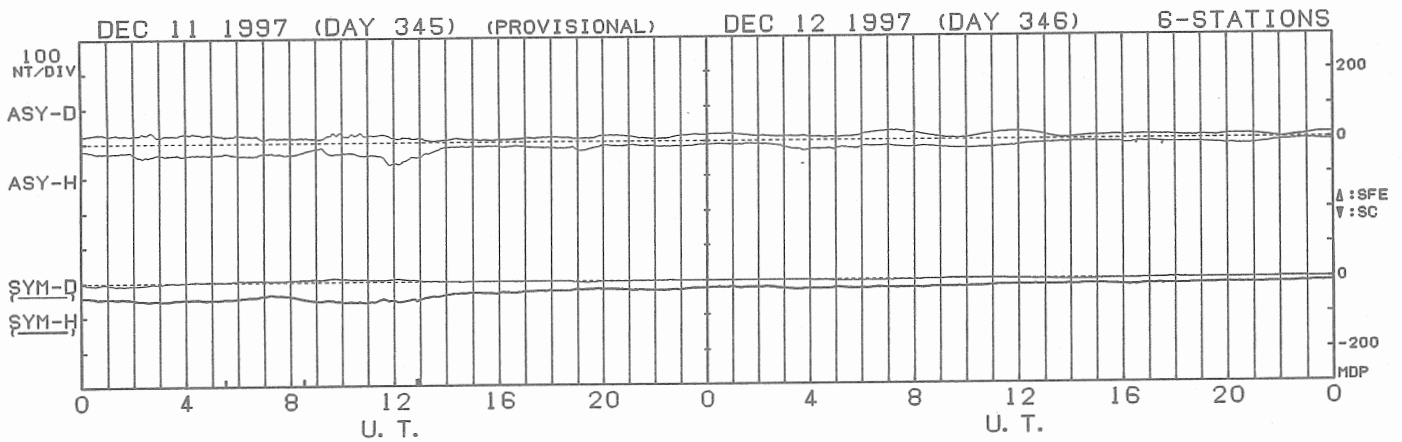
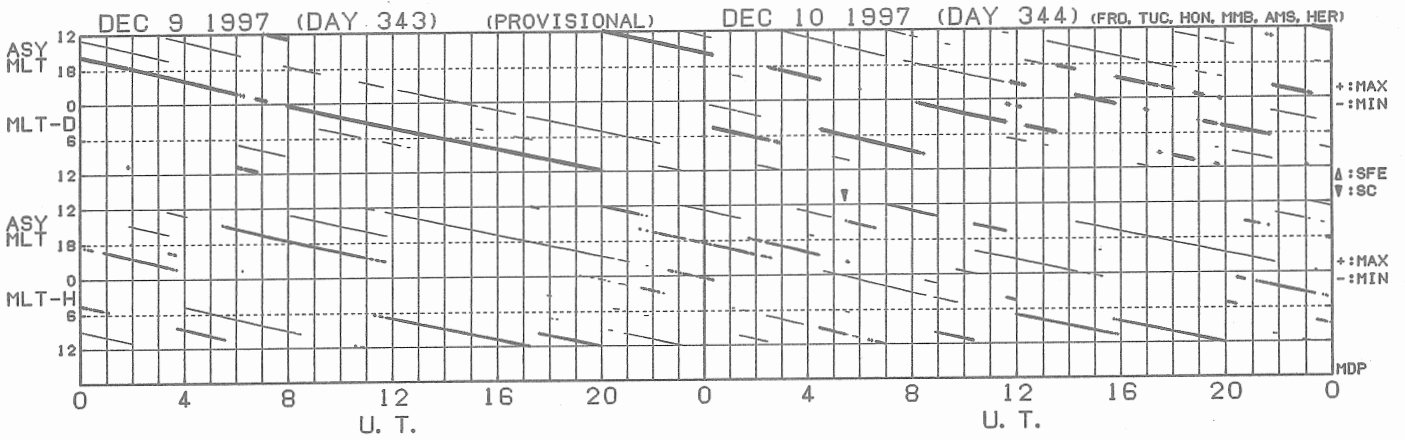
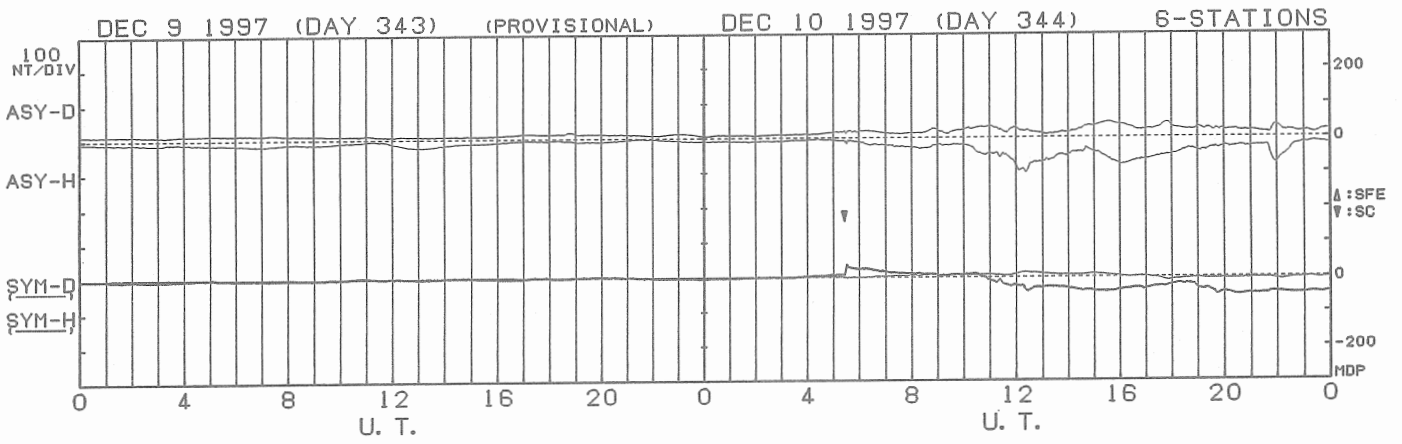


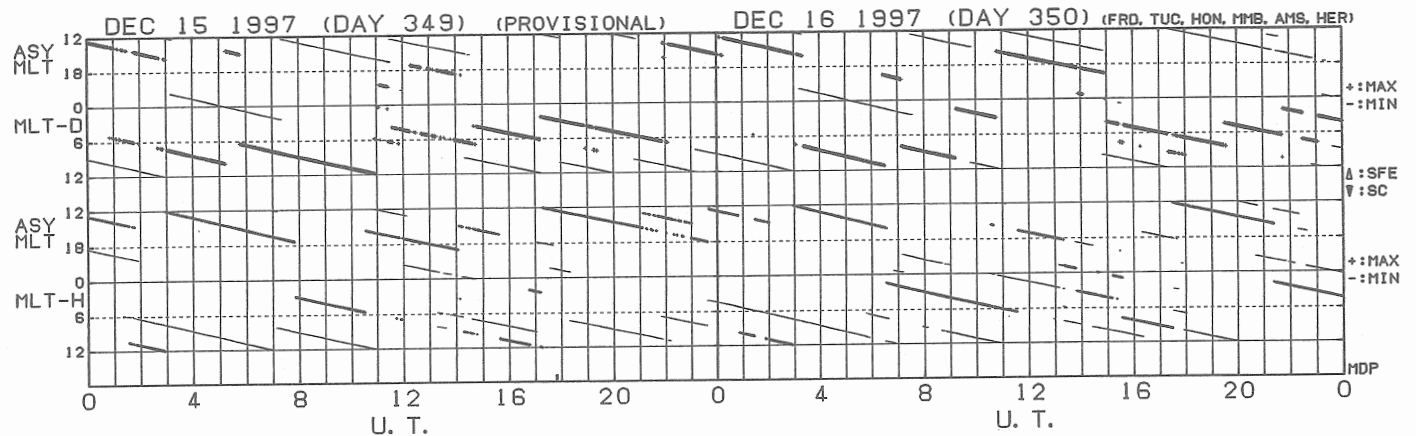
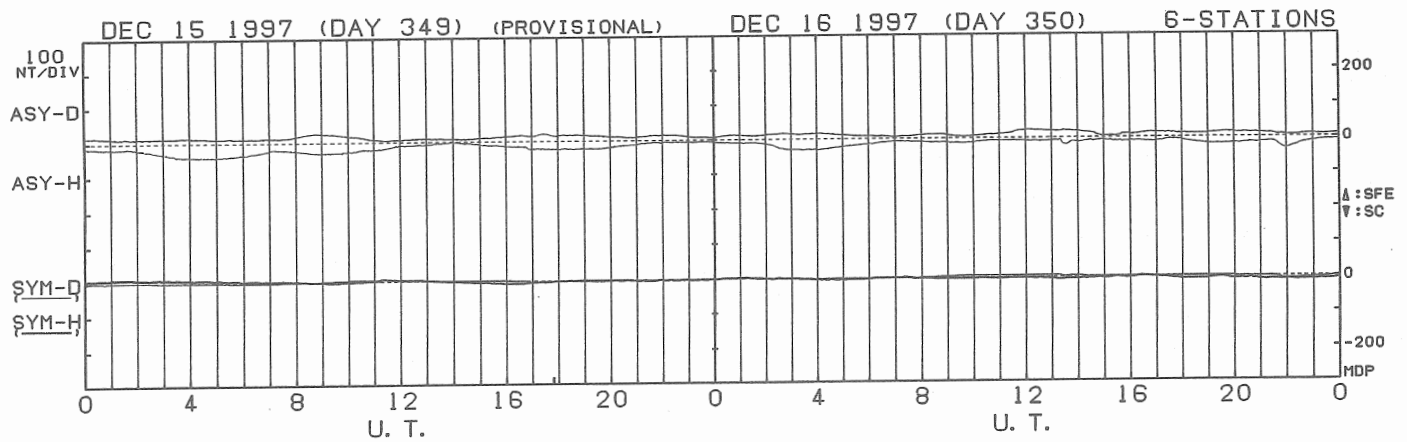
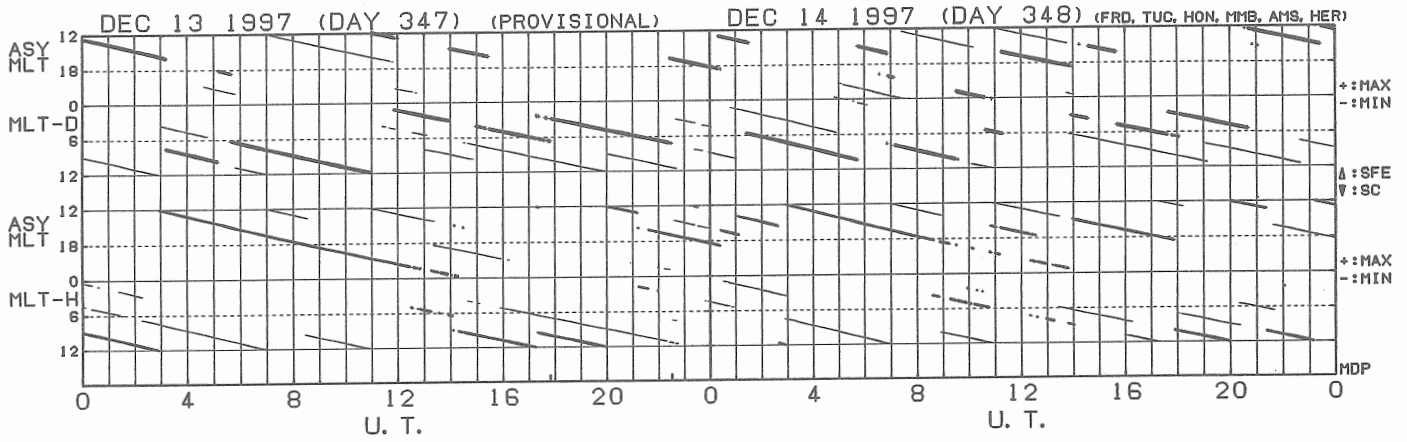
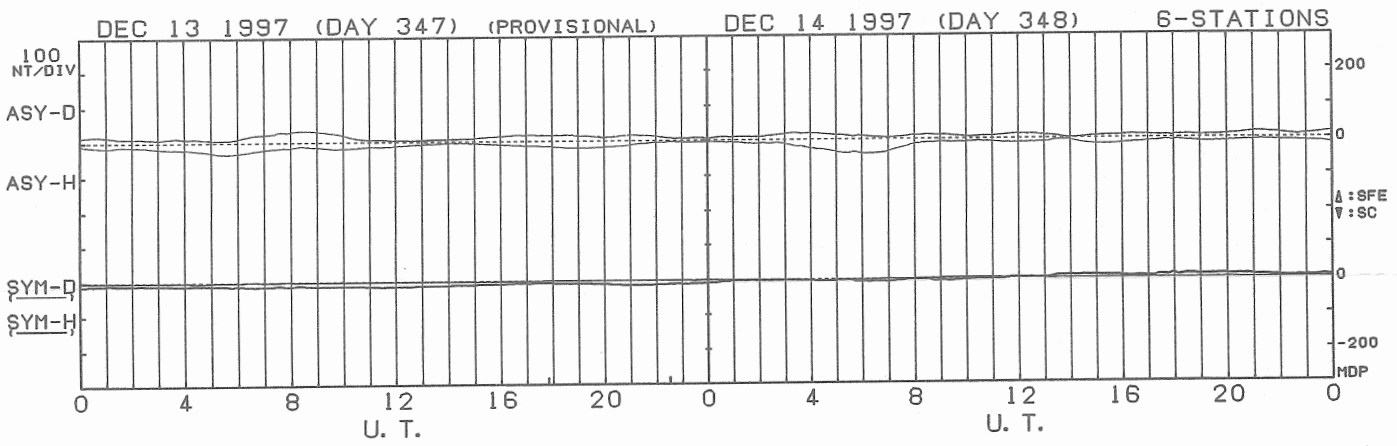


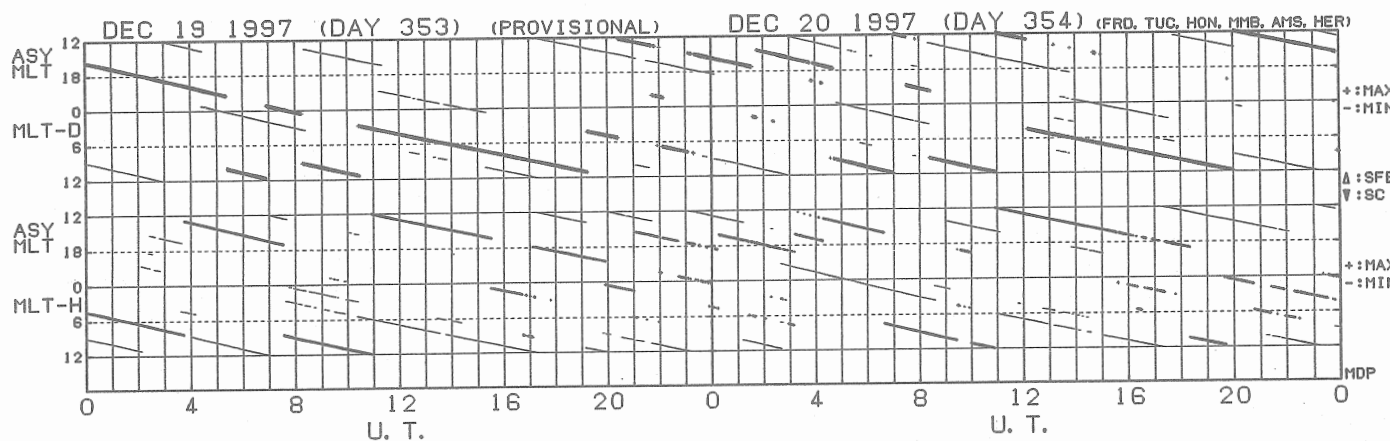
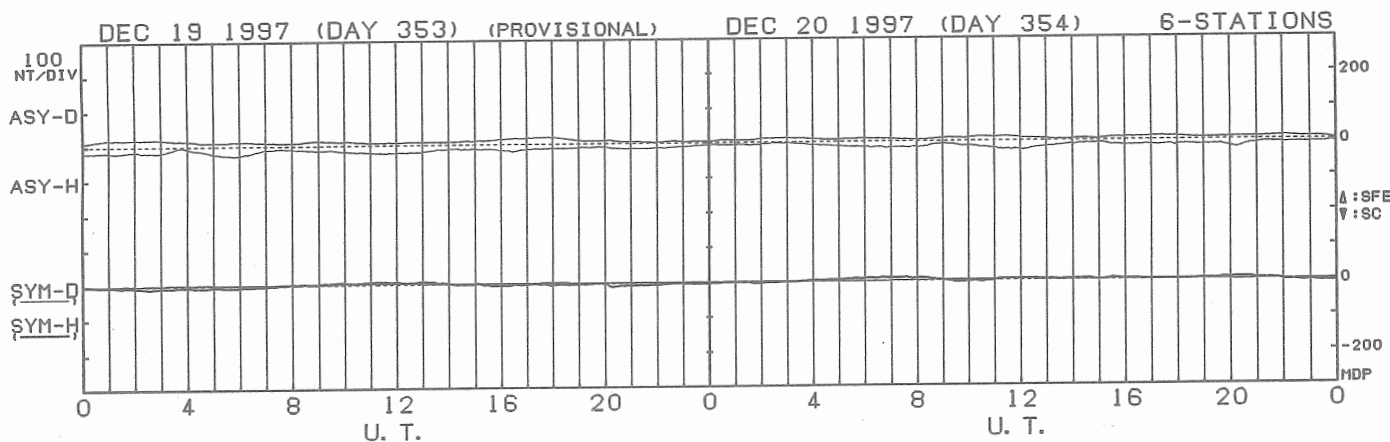
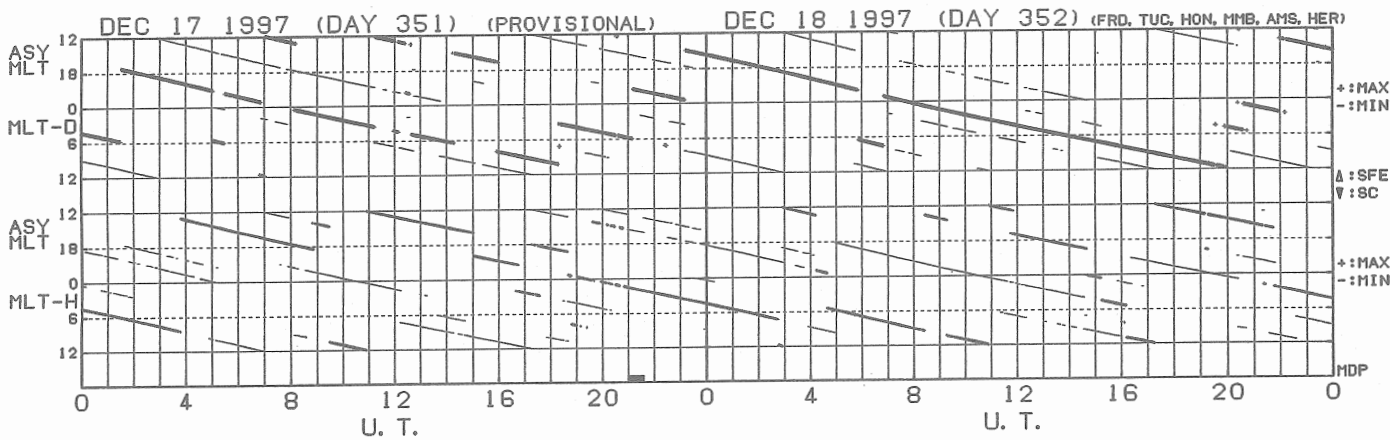
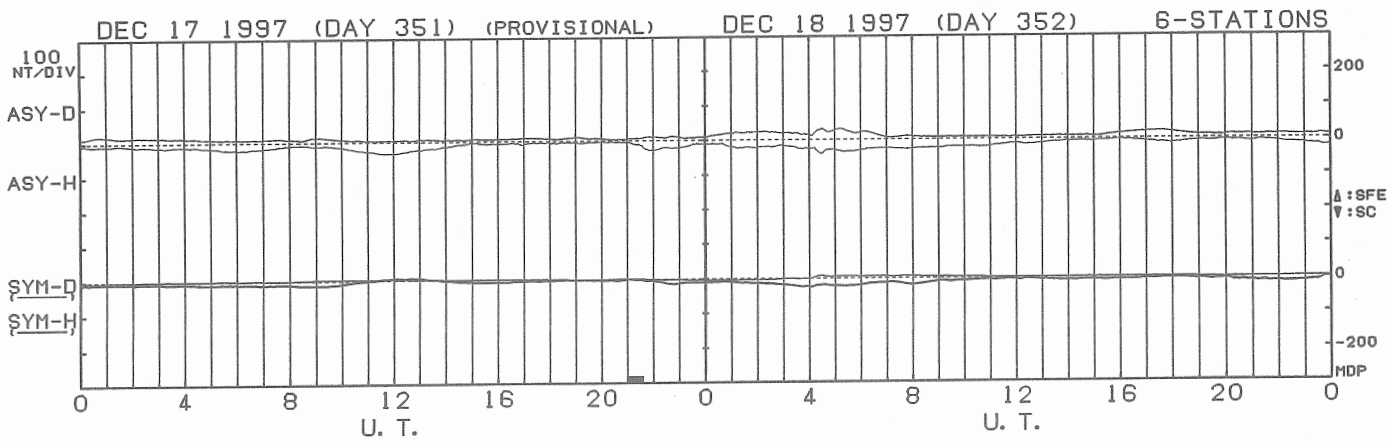


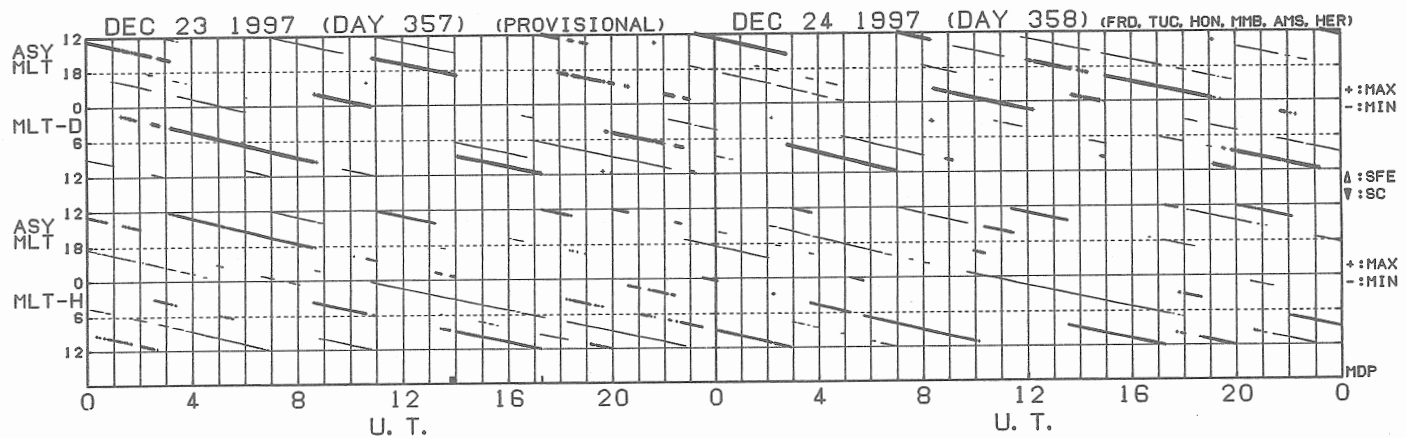
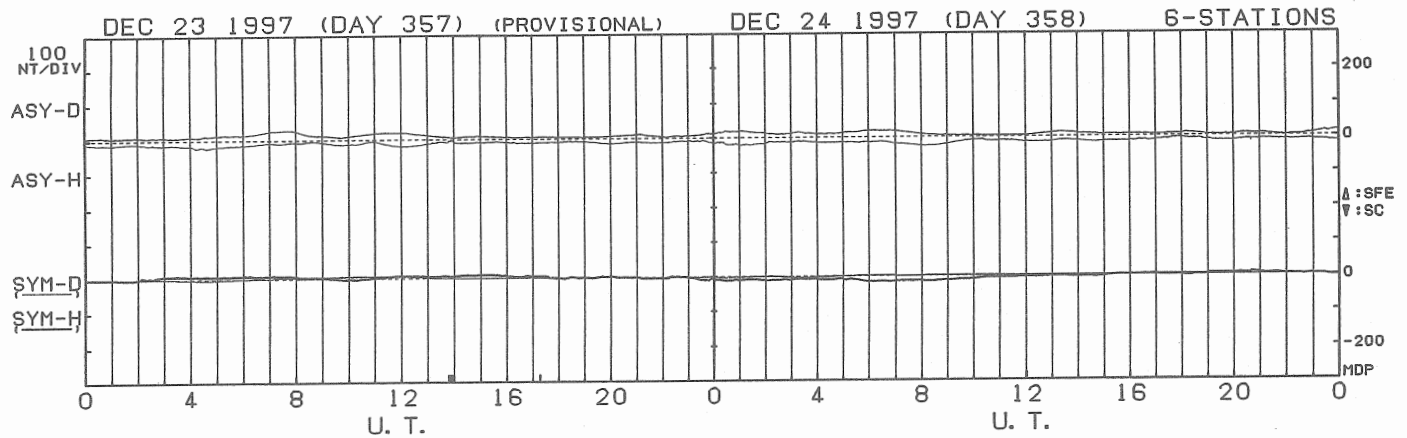
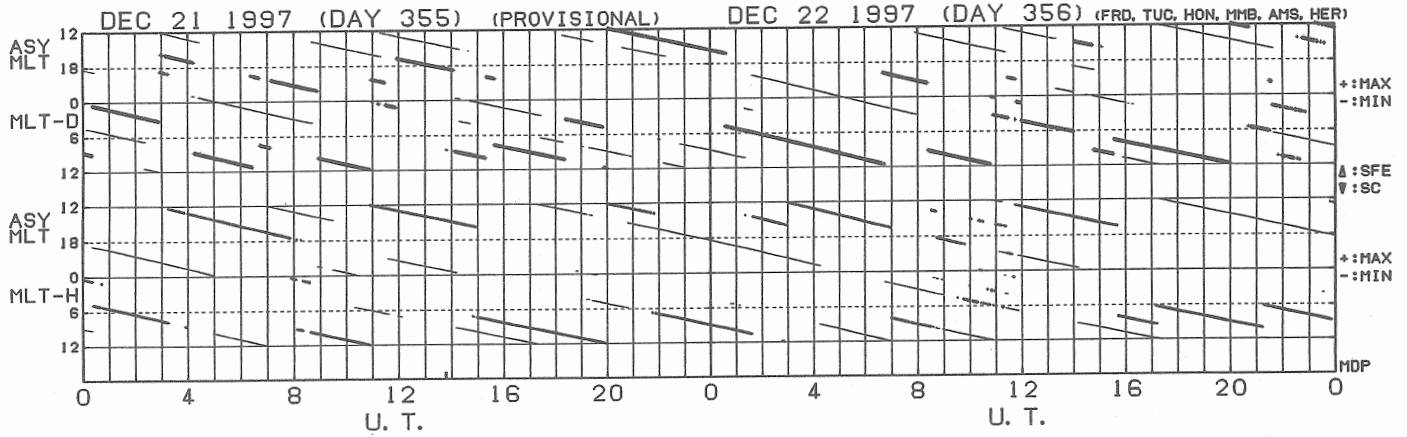
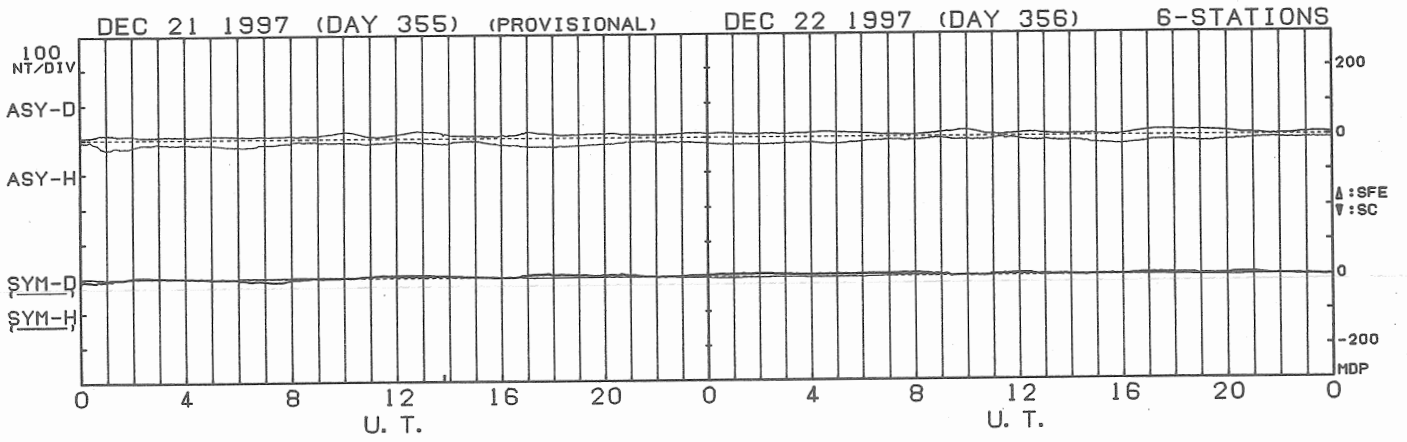


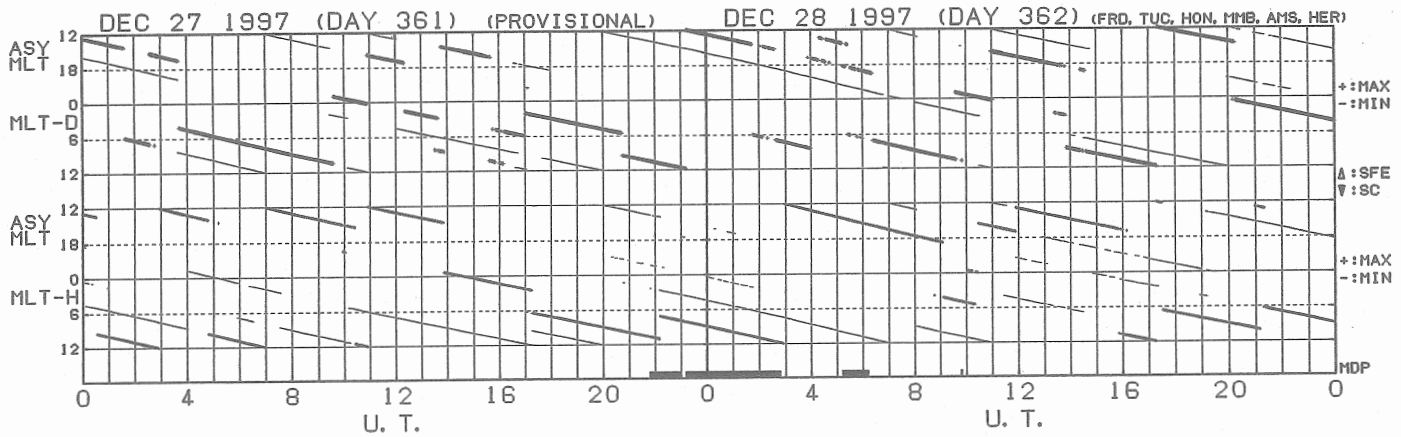
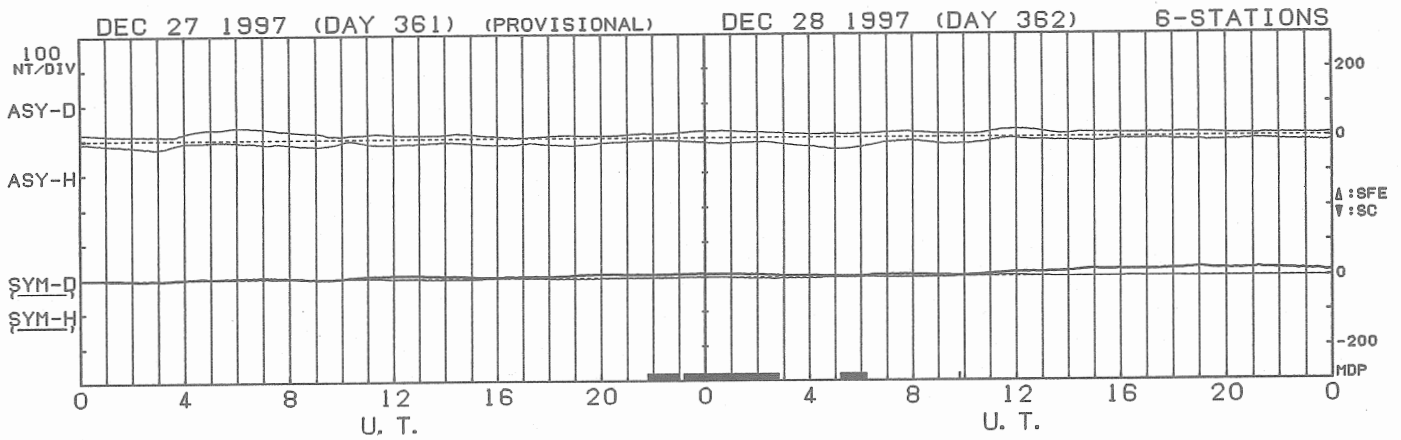
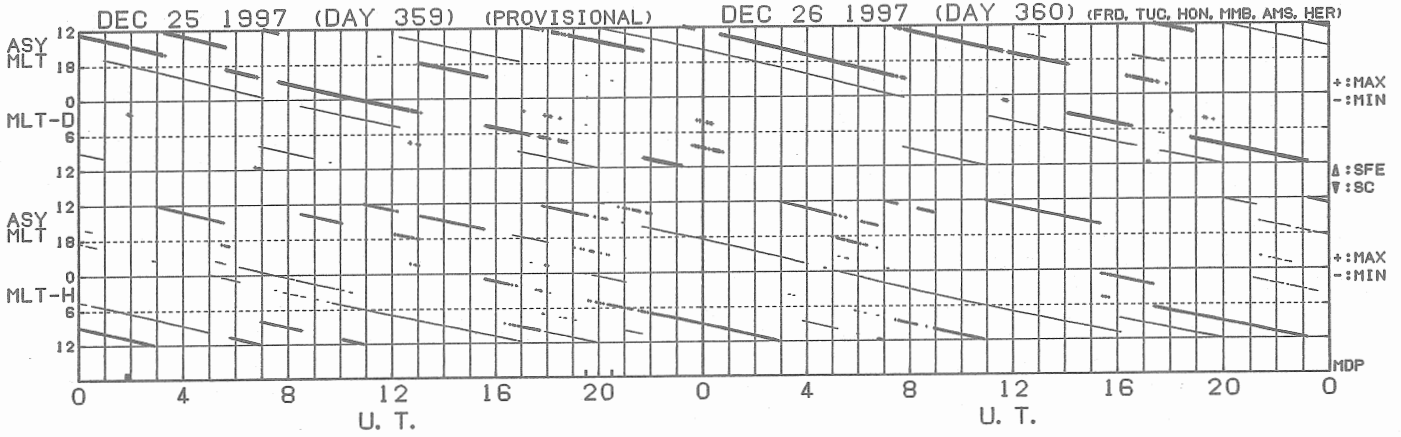
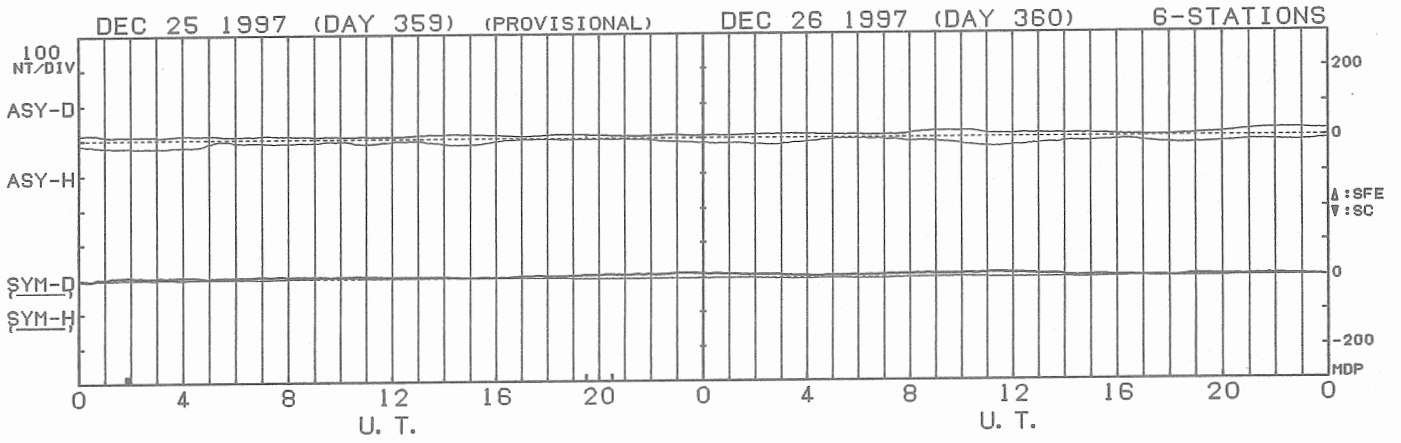


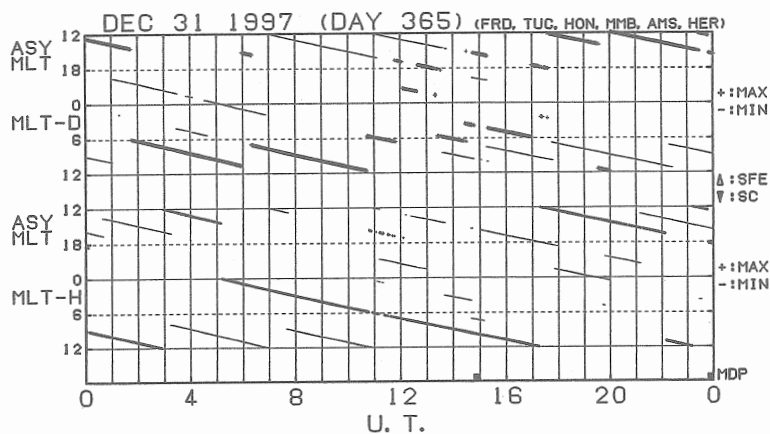
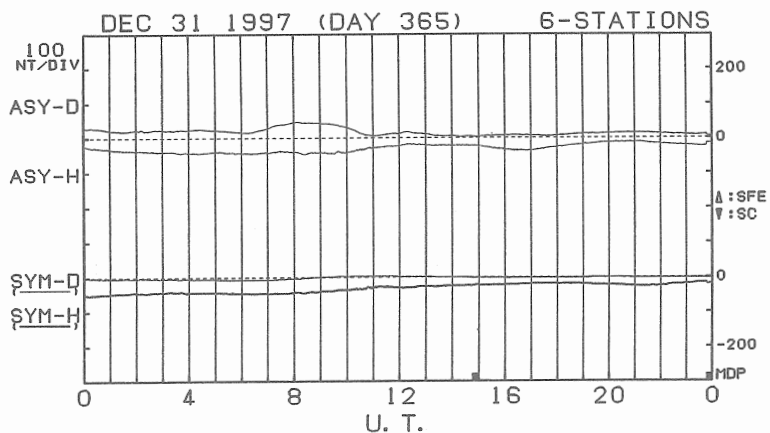
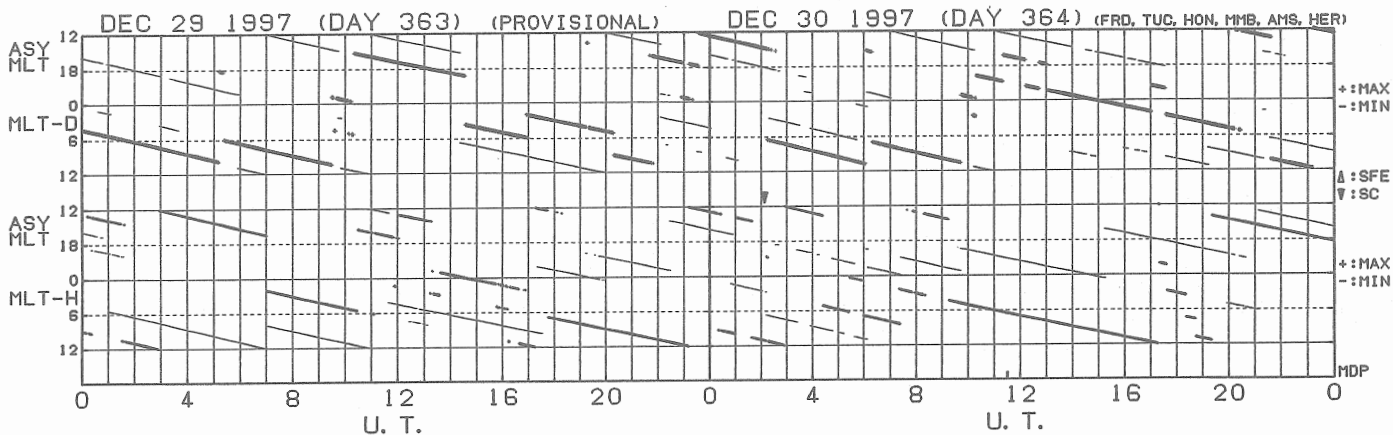
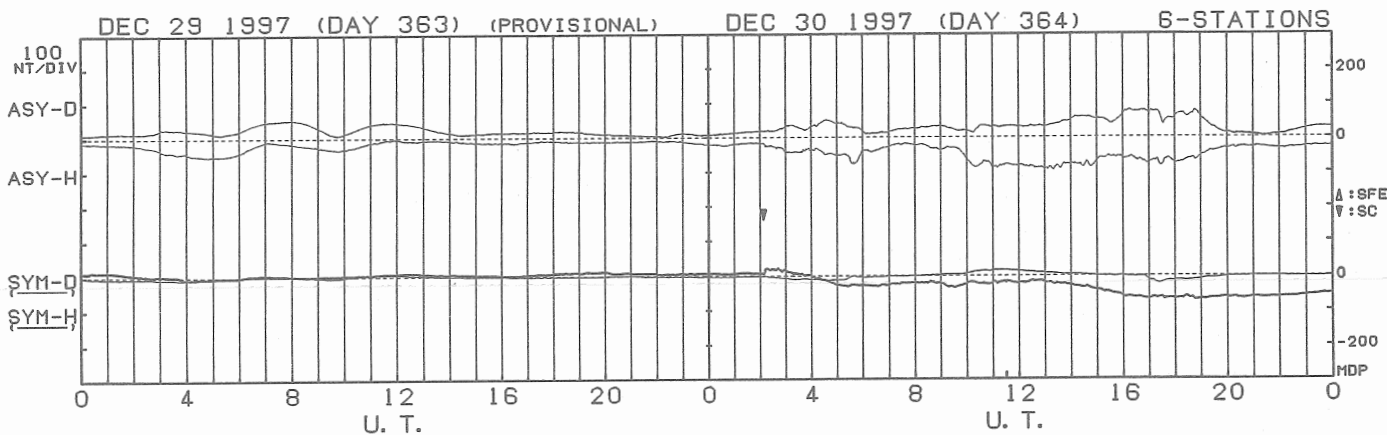
















DAY	ASY-D INDEX																								MEAN	nT
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
01	10	13	14	12	10	14	14	16	10	6	4	3	4	8	6	5	8	5	9	9	10	5	11	16	9	
02	15	11	8	5	5	6	7	12	12	15	14	15	11	9	8	10	18	10	7	9	9	8	4	6	10	
03 Q	10	14	9	10	10	12	16	15	8	5	4	6	4	2	4	6	12	8	6	8	11	4	5	5	8	
04 Q	2	4	4	7	6	7	8	9	9	8	8	3	2	5	4	4	6	8	7	10	5	4	8	7	6	
05	6	5	6	6	6	10	5	8	19	27	25	17	8	8	8	4	4	7	11	14	17	10	10	11	10	
06 Q	15	10	8	5	5	10	14	13	6	4	5	4	4	6	6	6	8	12	6	5	4	11	16	10	8	
07	8	9	7	17	25	24	10	12	15	20	22	32	22	25	6	6	4	9	11	12	7	8	16	14	14	
08	5	8	8	16	14	20	18	12	9	6	5	5	5	6	6	5	11	9	18	21	14	9	12	9	11	
09	10	10	8	7	9	10	12	12	15	8	11	10	7	9	9	7	13	20	25	26	15	13	16	12		
10	13	9	7	10	25	17	23	44	62	50	35	40	35	30	23	22	27	34	23	31	32	16	5	13	26	
11	28	40	31	15	9	8	12	14	9	10	22	47	56	11	7	8	10	13	17	16	14	7	12	19	18	
12	18	13	9	10	9	7	9	26	46	12	12	15	18	9	5	6	8	10	12	11	9	11	10	10	13	
13	13	11	10	17	15	9	14	16	14	8	12	16	16	16	9	7	9	11	12	9	8	7	8	8	11	
14	14	16	16	8	5	3	7	8	6	6	7	12	9	9	15	13	13	10	9	10	11	8	6	17	10	
15	23	17	9	6	6	8	13	21	28	19	7	13	15	12	11	9	8	9	9	8	11	10	11	11	12	
16 Q	9	9	7	3	4	7	11	12	11	15	15	10	6	5	8	7	8	10	12	10	6	14	19	18	10	
17 Q	16	10	4	7	7	6	8	9	5	9	9	9	5	6	9	12	16	13	8	9	19	14	15	15	10	
18	7	5	15	25	19	15	14	11	10	15	27	30	22	14	16	17	21	28	31	28	16	8	10	6	17	
19	5	10	13	11	18	25	29	23	9	16	28	21	8	8	10	13	14	25	24	19	16	15	13	14	16	
20	20	12	8	7	10	10	9	10	11	12	13	10	6	6	6	11	33	27	29	15	12	18	17	10	14	
21	15	18	14	13	22	28	26	17	14	22	20	19	14	13	6	16	25	21	40	41	25	10	13	14	19	
22	6	7	12	9	19	23	28	27	18	16	13	12	11	12	12	12	11	15	17	15	12	7	17	17	14	
23	9	6	10	11	19	23	22	15	7	15	18	19	14	8	8	11	11	9	13	10	5	9	10	10	12	
24	13	13	10	6	9	11	16	13	7	10	14	14	11	8	4	7	14	12	9	6	9	21	8	18	11	
25	18	16	16	22	20	21	22	14	14	15	14	18	15	7	4	9	11	10	7	12	11	7	8	20	14	
26	21	17	13	10	8	14	19	20	11	5	7	8	18	21	16	11	9	15	23	30	39	25	23	26	17	
27	14	13	14	32	20	19	19	11	8	10	16	16	6	5	10	11	12	12	16	19	37	20	24	23	16	
28	21	12	16	33	31	14	17	9	11	16	10	12	22	18	17	35	27	22	25	24	29	21	16	15	20	
29	17	12	11	11	14	17	20	24	21	12	9	6	7	12	6	5	9	16	14	10	22	28	20	12	14	
30	10	22	12	11	16	15	13	11	6	6	6	7	12	6	7	7	11	19	18	16	13	15	14	14	12	
31	14	11	28	16	13	10	7	7	7	7	6	6	5	4	7	10	9	16	13	11	12	26	26	17	12	
MEAN	13	12	12	12	13	14	15	15	14	13	13	15	13	10	9	10	13	14	15	15	15	13	13	13	13	

DAY	ASY-H INDEX																								MEAN	nT
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
01	9	9	14	18	19	18	13	12	10	13	13	11	10	12	13	11	7	6	7	10	16	19	20	13	13	
02	13	10	8	8	4	4	5	7	11	11	10	8	8	11	14	14	12	4	6	6	9	17	14	7	9	
03 Q	10	10	10	6	8	8	7	8	10	7	7	8	7	8	11	11	10	6	9	7	9	10	11	9	9	
04 Q	8	8	8	9	8	7	7	12	14	15	16	18	19	20	15	11	16	13	14	14	13	15	15	18	13	
05	19	17	20	20	21	20	20	18	15	17	18	17	18	19	20	19	11	13	17	18	19	20	21	20	18	
06 Q	21	20	19	18	20	19	15	15	17	19	16	14	21	19	20	16	13	11	10	11	14	16	19	17	17	
07	21	26	20	17	30	33	22	20	16	12	20	21	18	18	11	11	11	18	19	16	8	8	14	19	18	
08	22	23	21	16	15	19	13	8	9	14	17	13	8	6	11	16	23	27	18	6	8	11	9	14	14	
09	13	13	9	11	14	17	15	18	31	19	14	8	7	9	14	21	22	23	21	15	13	8	10	10	15	
10	10	16	15	22	29	22	49	128	121	88	54	51	54	57	34	37	48	55	47	39	32	28	25	17	45	
11	11	31	38	24	15	19	21	27	26	23	34	59	54	39	26	30	31	30	27	24	16	14	12	13	27	
12	11	14	15	14	19	23	24	40	72	32	26	28	25	20	24	30	25	21	20	22	20	26	24	23	25	
13	22	21	21	29	33	27	26	28	29	30	28	28	21	18	26	29	25	21	21	30	36	37	34	33	27	
14	35	30	28	28	30	31	37	41	36	31	29	28	26	24	24	18	18	18	20	26	26	30	30	28	28	
15	26	25	28	28	27	34	38	40	38	37	35	33	42	40	34	27	20	25	29	30	32	36	39	33	32	
16 Q	27	22	21	21	23	21	23	27	31	39	34	33	31	27	21	20	19	15	14	15	15	20	23	23	23	
17 Q	22	23	24	24	25	23	20	19	21	23	21	20	22	25	26	24	22	15	13	18	25	24	24	22	22	
18	21	21	21	24	24	26	27	25	30	32	30	25	29	29	29	32	36	33	24	22	20	21	23	25	26	
19	29	31	33	34	37	43	45	43	41	36	45	47	41	39	45	63	60	69	62	52	45	43	41	36	44	
20	38	40	46	46	47	47	41	41	45	44	38	34	37	42	45	50	64	59	51	41	39	40	30	29	43	
21	27	29	45	40	42	47	48	40	46	45	36	38	39	34	50	42	59	57	49	38	28	25	25	26	40	
22	29	31	34	30	41	39	38	30	31	33	36	35	35	33	37	43	41	38	32	25	20	19	17	17	32	
23	17	19	16	19	23	24	23	25	24	20	19	18	16	22	22	24	23	26	26	22	13	7	5	6	19	
24	7	8	8	16	19	21	25	25	29	34	26	19	14	15	19	22	24	22	20	17	15	13	16	13	19	
25	14	14	11	13	17	23	25	28	28	29	24	18	18	20	26	26	24	22	20	15	12	14	18	17	20	
26	12	11	12	16	13	20	27	31	32	28	24	24	23	35	52	45	40	38	41	49	33	25	30	36	29	
27	13	15	18	35	29	28	30	32	27	27	28	25	28	32	36	36	27	23	29	40	30	22	26	19	27	
28	15	14	17	42	29	27	26	27	28	42	42	35	31	31	41	42	38	33	24	16	20	23	22	29	29	
29	27	27	26	26	28	30	31	36	32	26	25	24	21	22	29	31	35	35	30	20	22	17	18	19	27	
30	23	32	29	33	32	25	24	26	25	26	24	26	27	25	21	27	35	35	27	24	20	24	25	24	27	
31	27	29	43	40	27	29	28	28	26	26	22	22	25	32	31	39	33	29	25	23	20	24	23	22	28	
MEAN	19	21	22	23	24	25	25	29	31	28	26	25	25	25	27	28	28	27	25	23	21	21	21	20	25	

ASY-D INDEX					FEB 1997										(PROVISIONAL)							nT				
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
01	17	14	11	6	3	8	17	21	14	7	14	11	9	8	11	7	6	8	11	12	16	14	8	9	11	
02	12	14	14	13	13	9	7	13	21	17	6	7	9	6	6	6	16	15	14	15	10	9	9	12	11	
03	22	8	5	7	8	12	14	15	28	26	18	10	8	7	7	6	9	10	15	16	13	11	9	11	12	
04 Q	17	10	5	8	11	10	11	9	8	7	10	16	17	16	14	6	4	3	4	6	9	8	8	10	9	
05	18	13	8	6	9	10	10	9	7	13	15	8	6	17	8	10	7	8	18	23	20	17	8	8	11	
06	11	6	3	8	15	22	19	15	15	12	12	8	12	17	14	9	8	5	7	10	16	14	10	9	11	
07 Q	11	10	9	7	9	11	11	10	11	8	6	7	8	9	7	7	7	9	9	10	9	5	8	10	9	
08	15	15	11	11	12	10	9	9	8	12	20	26	33	103	51	33	54	25	21	23	15	13	26	24	17	
09	32	22	10	8	12	13	10	7	6	10	9	9	13	13	13	21	17	17	30	31	32	29	24	24	17	
10	35	33	18	16	15	25	28	29	27	31	39	46	60	51	47	50	52	47	40	52	27	14	14	26	34	
11	37	37	23	16	16	16	16	16	19	30	20	20	18	7	6	7	13	11	13	18	17	15	11	25	18	
12	23	14	7	10	13	18	17	10	10	12	10	8	8	8	7	9	10	10	11	9	7	15	16	14	11	
13 Q	16	16	15	12	10	10	12	11	10	9	13	11	6	9	8	10	9	8	5	6	10	7	4	6	10	
14	5	9	9	10	13	19	25	16	12	11	12	11	12	10	11	12	12	12	14	19	18	11	6	5	12	
15	15	15	12	14	16	15	13	12	17	16	8	9	8	9	10	16	21	10	8	4	5	10	8	7	12	
16	5	5	6	6	8	15	16	17	19	15	9	9	25	17	9	8	8	11	18	20	15	19	20	18	13	
17	23	20	14	15	19	15	28	31	42	33	18	19	14	10	7	7	5	12	15	17	15	12	24	29	18	
18	29	26	20	12	8	11	19	20	13	9	12	9	8	7	6	8	6	7	8	9	13	10	6	5	12	
19 Q	9	8	10	8	6	6	7	8	7	8	6	7	8	8	8	6	8	8	7	11	16	14	8	4	8	
20 Q	3	4	9	12	15	14	15	8	7	10	10	12	13	9	5	7	7	11	16	15	8	6	8	17	10	
21	22	18	13	17	21	20	24	27	24	18	18	17	16	12	19	13	8	8	12	14	11	13	11	9	16	
22	17	7	11	16	11	13	16	13	9	8	8	8	7	8	8	17	32	22	7	5	9	12	14	10	12	
23	8	14	11	9	11	9	9	9	10	13	11	11	15	14	12	9	8	11	16	18	19	20	13	7	12	
24	7	4	4	10	13	16	16	18	13	16	13	11	12	13	13	12	11	14	19	21	19	19	13	22	14	
25	17	12	14	12	13	17	16	11	15	17	14	11	11	11	11	9	15	21	25	21	15	15	13	7	14	
26	7	10	8	15	16	18	17	15	15	17	12	10	23	44	42	16	5	7	9	14	9	4	7	10	15	
27	8	14	18	16	23	17	15	12	9	8	10	9	10	11	24	28	12	10	12	26	29	32	50	53	19	
28	30	35	44	21	28	48	21	16	16	27	28	17	18	23	7	4	6	22	14	15	19	21	20	25	22	
MEAN	17	15	12	12	13	15	16	14	15	15	13	13	15	17	14	12	14	13	14	16	15	14	13	15	14	

ASY-H INDEX					FEB 1997										(PROVISIONAL)							nT				
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
01	30	25	19	14	8	12	11	8	14	15	16	17	21	23	31	23	12	11	8	10	8	7	12	12	15	
02	9	12	12	11	15	23	22	21	20	16	12	12	10	10	10	9	27	31	19	26	32	20	15	24	17	
03	47	24	18	11	9	10	7	13	13	14	12	6	6	7	8	9	11	11	10	12	9	16	11	11	13	
04 Q	8	5	9	13	11	9	8	14	14	8	6	8	18	13	12	9	6	6	9	10	9	12	7	6	10	
05	5	7	8	6	8	11	9	10	4	4	8	7	7	9	9	11	12	17	20	8	5	12	8	8	9	
06	12	11	11	13	22	36	33	31	27	15	9	13	26	31	19	17	15	12	8	8	10	18	17	9	18	
07 Q	9	13	15	11	7	7	13	15	16	14	12	7	6	9	8	5	4	8	9	7	12	28	20	19	11	
08	16	16	18	15	16	19	15	17	15	17	24	27	40	100	102	54	66	41	37	28	52	13	7	11	32	
09	16	15	16	15	21	18	13	13	18	28	28	20	27	20	28	25	19	30	65	97	82	32	23	13	28	
10	28	27	22	21	28	33	48	39	48	86	82	71	69	56	42	47	53	60	70	71	27	22	31	47	47	
11	44	34	20	19	21	22	40	35	42	74	81	44	44	31	26	24	18	17	18	37	27	30	26	30	34	
12	21	19	21	15	18	36	30	18	20	21	23	20	20	21	22	22	21	18	18	19	19	19	20	18	21	
13 Q	16	14	16	15	16	15	16	24	20	17	16	15	15	16	19	12	13	11	8	9	15	19	24	16	21	
14	20	21	19	22	28	18	20	16	18	16	18	18	20	27	33	36	35	33	36	27	19	14	13	17	23	
15	17	20	23	19	13	13	15	17	20	18	15	14	16	12	10	16	28	16	13	12	12	16	20	23	17	
16	31	29	25	22	20	17	16	30	30	24	27	22	48	52	32	22	15	15	30	26	24	31	27	21	26	
17	24	20	19	27	37	30	34	47	55	48	36	47	36	25	21	19	20	19	14	13	17	24	20	20	28	
18	24	22	17	25	15	16	18	29	34	26	23	16	13	13	13	12	17	14	21	22	22	21	14	12	19	
19 Q	14	9	9	9	7	8	11	15	16	12	9	8	6	6	4	3	5	7	8	6	9	7	9	8	9	
20 Q	10	13	12	9	9	8	14	15	15	11	11	13	15	20	21	18	16	16	10	8	13	15	10	9	13	
21	10	15	17	18	21	18	33	30	23	23	46	34	17	18	26	30	15	17	21	24	13	6	8	14	21	
22	30	12	16	16	17	16	19	21	20	22	22	20	19	20	20	18	29	27	9	17	23	19	31	34	21	
23	29	19	12	32	34	17	15	13	11	24	17	16	11	20	27	22	20	21	17	10	13	19	22	14	19	
24	8	11	12	16	13	14	14	13	13	34	17	19	32	12	7	11	12	15	13	12	16	24	24	23	16	
25	21	21	16	12	14	12	5	12	15	11	12	9	10	14	19	21	21	16	11	5	11	13	12	9	13	
26	11	14	24	35	17	10	9	11	18	37	21	19	28	50	77	40	30	25	18	10	7	12	11	8	23	
27	16	26	32	33	41	25	19	18	21	20	19	17	11	31	46	24	12	12	41	78	59	80	124	34	34	
28	56	51	61	41	51	95	48	41	24	21	30	25	29	35	21	17	18	48	36	22	26	17	10	11	35	
MEAN	21	19	19	18	19	20	20	21	22	24	23	20	22	24	25	22	21	21	20	21	22	19	19	21	21	

		ASY-D INDEX																	MAR 1997						(PROVISIONAL)							nT
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN						
01	37	31	13	7	5	11	8	13	22	17	11	15	14	18	26	25	28	10	11	21	18	9	9	23	17							
02	30	24	16	14	24	20	20	12	21	22	12	11	12	10	12	9	28	22	12	13	17	30	39	39	20							
03	32	17	6	5	3	6	10	16	25	23	14	11	9	8	10	12	16	21	30	24	14	28	49	45	18							
04	39	27	15	5	5	10	11	10	11	10	8	7	6	10	14	9	9	12	12	13	15	11	5	7	12							
05	7	5	5	5	8	13	12	10	21	16	8	9	8	8	8	8	8	18	32	24	9	11	11	14	12							
06	19	6	8	8	14	21	21	18	13	11	11	12	9	9	17	14	7	8	7	9	5	9	11	9	12							
07	6	10	12	7	10	13	13	12	11	17	11	8	21	13	19	29	11	10	14	15	14	12	11	13	13							
08	18	13	14	12	8	18	17	8	16	18	11	6	6	6	12	17	9	10	8	5	6	19	23	17	12							
09 Q	20	16	9	7	7	8	9	9	10	9	4	4	5	6	7	8	8	9	6	7	13	10	6	15	9							
10 Q	10	12	9	5	6	11	8	6	6	7	6	4	3	3	5	5	5	5	4	4	5	8	7	6	6							
11	5	4	5	7	6	5	7	5	5	7	13	13	5	6	7	8	10	20	22	20	10	4	5	11	9							
12	15	23	27	21	8	18	22	13	14	21	18	17	13	25	29	14	10	14	15	16	12	8	17	30	18							
13	35	28	25	17	16	13	16	12	18	21	11	8	8	8	6	10	8	11	11	15	17	13	7	6	14							
14	11	12	16	14	6	7	3	3	7	6	6	6	6	6	6	6	6	9	11	6	5	14	21	10	8							
15	17	23	24	18	8	6	6	5	6	9	10	5	6	9	8	5	5	10	7	7	11	10	8	3	9							
16	10	11	8	8	6	10	18	10	10	7	9	8	7	8	5	7	5	8	9	12	12	5	5	3	8							
17	7	8	9	11	9	8	17	20	15	10	8	15	12	8	6	8	5	5	9	21	26	22	18	13	12							
18	5	7	18	22	18	13	16	23	13	7	8	10	8	6	3	7	12	15	9	9	15	15	14	11	12							
19 Q	6	13	16	11	8	8	9	17	12	7	6	6	13	8	5	5	5	7	9	8	8	9	6	9	9							
20 Q	2	5	4	6	5	5	7	7	8	14	17	15	10	8	8	10	9	7	15	18	16	18	14	6	10							
21	7	10	14	14	10	10	13	12	11	17	16	18	15	13	10	10	12	14	22	24	22	17	11	5	14							
22	10	8	9	15	29	20	10	11	9	15	12	12	7	8	13	19	9	4	4	5	8	8	7	11	11							
23 Q	17	19	19	18	14	14	11	6	6	11	16	11	8	5	5	7	10	6	7	4	3	3	11	19	10							
24	15	9	10	6	5	8	14	16	19	13	11	15	11	10	11	11	14	17	17	11	16	21	30	12	13							
25	5	11	9	4	4	6	13	12	14	17	14	14	12	11	24	13	21	20	20	11	11	23	33	16	14							
26	13	15	13	8	11	14	6	6	13	13	21	10	16	12	13	11	27	11	14	21	24	20	28	26	15							
27	21	22	27	22	12	7	7	8	10	7	6	6	8	9	9	7	8	6	14	20	27	28	16	10	13							
28	7	13	10	6	3	3	4	9	13	19	15	11	11	9	8	35	39	56	41	36	35	17	23	18	18							
29	16	20	20	29	29	14	6	4	5	9	28	18	16	13	15	16	13	13	18	12	10	9	23	10	15							
30	7	11	7	11	23	33	26	17	15	16	17	23	29	16	10	8	10	16	19	14	9	12	11	11	15							
31	6	10	11	20	16	15	11	12	5	5	6	9	9	6	10	12	11	16	21	15	9	8	6	7	11							
MEAN	15	14	13	12	11	12	12	11	12	13	12	11	10	10	11	12	12	13	14	14	14	14	16	14	13							

		ASY-H INDEX																	MAR 1997						(PROVISIONAL)							nT
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN						
01	27	27	29	23	19	26	26	25	22	17	16	20	17	19	29	21	32	35	29	48	29	18	16	19	25							
02	22	22	19	16	41	41	48	46	39	25	19	12	10	14	22	20	30	32	37	33	28	25	19	21	27							
03	24	22	18	17	28	40	46	39	33	23	14	10	8	13	19	21	28	30	30	25	20	21	32	20	24							
04	21	20	22	16	23	28	25	20	18	13	15	16	18	25	25	25	21	23	24	22	19	12	8	8	19							
05	11	11	12	13	11	14	25	18	16	9	8	11	10	9	10	11	15	19	33	24	11	9	4	16	14							
06	35	14	14	15	16	17	34	24	22	25	25	18	14	19	16	18	18	14	9	7	7	8	10	14	17							
07	22	22	17	15	11	10	11	17	16	20	29	22	30	31	29	46	31	25	21	23	24	26	34	26	23							
08	36	30	17	14	13	17	16	16	17	20	19	13	13	14	22	22	7	9	12	11	14	14	11	9	16							
09 Q	15	16	9	5	8	7	7	6	8	11	12	12	7	8	11	17	22	20	19	19	13	6	6	10	11							
10 Q	10	9	9	8	11	14	6	9	12	16	20	16	12	7	5	4	11	18	13	6	5	14	8	10	11							
11	16	16	12	14	7	6	6	8	11	14	17	14	13	14	10	8	14	26	27	23	15	9	10	9	13							
12	13	20	23	27	19	15	27	26	29	36	38	23	12	26	27	15	16	17	24	28	20	20	28	27	23							
13	22	25	35	24	17	18	25	20	14	8	9	9	13	20	24	25	13	9	8	16	11	19	26	28	18							
14	21	17	17	13	10	14	11	8	8	6	5	5	8	13	18	24	23	20	17	14	11	7	10	15	13							
15	30	41	45	39	28	23	21	16	18	14	15	13	13	12	9	12	14	8	9	8	9	10	9	11	18							
16	12	15	15	15	21	22	39	22	15	12	9	8	14	20	23	31	32	31	35	25	18	12	15	19	20							
17	22	22	23	31	35	28	16	8	10	15	13	12	13	12	10	8	8	13	19	15	18	19	17	19	17							
18	25	27	33	29	29	30	27	16	10	5	9	14	5	6	5	11	5	11	13	13	10	7	6	8	15							
19 Q	9	8	5	6	8	11	9	10	13	11	12	9	15	11	11	14	12	15	17	16	11	7	6	11	11							
20 Q	14	11	7	5	8	10	14	14	14	12	8	4	5	7	10	16	20	27	25	19	12	8	11	12	12							
21	10	11	9	8	11	12	6	13	19	19	16	48	17	13	8	6	6	12	16	9	6	7	7	8	12							
22	13	13	17	18	38	42	28	20	22	24	15	17	22	17	24	30	20	14	10	10	13	17	17	15	20							
23 Q	9	6	6	5	6	7	12	13	10	8	10	12	14	14	9	9	10	11	13	9	8	8	7	6	9							
24	4	6	11	11	16	19	19	15	8	10	11	23	19	9	8	7	4	7	12	11	23	36	29	38	15							
25	19	12	9	6	7	6	17	17	14	19	18	18	18	24	50	27	27	25	30	24	16	21	52	41	21							
26	23	19	17	16	19	30	8	7	20	28	22	19	38	32	32	28	35	21	25	24	24	19	41	34	24							
27	23	15	10	8	7	7	8	11	8	10	7	7	12	14	13	14	12	11	9	16	13	13	19	18	12							
28	12	8	7	8	10	15	12	12	13	16	14	14	8	7	13	49	69	61	59	55	31	35	43	26	16							
29	40	33	29	39	42	30	25	20	20	24	47	19	12	14	10	24	34	44	44	29	39	35	47	26	30							
30	21	21	20	21	31	45	31	20	25	18	15	16	24	12	10	8	7	15	24	28	32	31	28	22	22							
31	20	23	20	18	20	22	15	15	15	16	16	16	21	25	18	11	12	10	12	18	22	20	14	10	17							
MEAN	19	18	17	16	18	20	20	17	17	16	16	15	15	15	17	19	20	20	22	20	18	16	19	19	18							

ASY-D INDEX						APR 1997														nT						
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
01		8	8	7	24	15	15	16	6	8	5	9	7	6	9	7	9	16	12	8	12	19	16	12	6	11
02		13	10	8	16	18	23	21	20	13	11	14	20	14	12	14	7	8	13	12	11	11	13	10	12	13
03		15	22	10	12	22	11	15	11	8	8	15	18	9	6	7	6	9	7	17	13	12	9	10	23	12
04		34	23	21	13	13	24	12	19	18	20	15	14	26	21	13	12	9	16	23	26	25	18	19	23	19
05		31	15	13	15	8	19	19	15	20	25	20	15	16	13	9	11	17	23	21	17	18	19	17	24	18
06		16	15	20	19	14	17	23	23	26	32	27	20	23	31	23	22	23	18	10	18	27	27	25	22	22
07		27	23	26	18	16	26	34	26	18	15	14	14	22	20	16	16	11	11	5	9	19	22	19	13	18
08 Q		19	23	18	11	7	15	22	17	12	12	17	19	17	15	13	9	7	9	12	16	21	22	21	15	15
09		11	17	25	22	14	13	22	19	15	11	8	8	10	11	14	19	20	23	13	7	14	20	18	19	15
10		9	10	15	15	10	10	22	27	20	11	17	16	9	9	13	13	17	19	14	23	45	52	74	65	22
11		36	82	73	65	45	47	24	26	21	24	28	23	19	11	15	15	19	27	30	23	12	12	20	16	30
12		6	13	10	11	11	8	10	23	17	13	17	39	13	11	17	16	17	16	9	14	21	22	23	22	16
13		18	20	13	14	21	11	10	11	11	22	23	19	13	21	20	23	19	21	12	8	9	15	16	19	16
14		20	28	22	12	6	10	20	27	28	19	10	10	8	13	17	19	17	14	9	5	8	15	17	15	15
15 Q		11	9	7	7	14	17	18	12	9	7	6	5	4	5	8	15	20	26	29	21	16	16	16	15	13
16		8	11	15	9	8	13	18	24	18	10	9	16	18	26	19	10	27	37	38	51	43	34	34	35	22
17		27	42	40	37	24	25	24	10	12	21	21	25	15	9	8	7	12	9	10	12	24	22	13	11	19
18		14	22	37	20	14	19	20	41	34	35	40	28	14	10	22	16	15	11	8	18	19	15	17	15	21
19		22	23	23	18	14	21	19	25	26	35	34	23	9	19	14	12	14	23	25	15	21	32	38	40	23
20		32	24	26	23	13	10	16	19	12	10	15	11	6	7	11	11	13	17	28	28	11	12	21	25	17
21		16	10	20	20	16	10	9	12	15	12	12	10	19	14	28	32	27	48	52	52	43	24	19	44	23
22		35	21	36	55	48	39	29	24	18	13	15	13	11	12	14	14	15	18	23	21	12	13	6	12	22
23		17	23	18	10	10	16	24	24	15	11	11	13	14	13	18	21	9	12	22	11	17	25	24	25	17
24		27	56	48	28	16	21	21	20	23	12	12	9	2	4	8	11	16	17	12	11	10	12	10	7	17
25		11	18	14	9	10	18	19	18	19	8	3	1	8	8	8	11	14	14	14	16	16	11	10	17	12
26 Q		12	11	8	5	8	10	6	5	10	14	13	16	7	4	4	8	8	6	5	11	19	15	9	8	9
27 Q		9	12	5	5	4	5	4	5	5	8	11	10	8	10	13	13	14	18	10	6	11	12	16	16	10
28 Q		13	10	11	8	7	8	10	6	6	16	22	22	16	9	6	4	6	7	8	8	13	11	7	8	10
29		8	9	7	9	8	6	7	8	6	6	10	12	8	8	6	5	8	12	13	16	17	19	18	18	10
30		12	18	16	32	24	18	15	14	16	14	14	13	8	9	11	9	11	13	13	25	17	18	12	10	15
MEAN		18	21	20	19	15	17	18	18	16	15	16	16	12	12	13	13	15	17	17	17	19	19	19	20	17

ASY-H INDEX						APR 1997														nT						
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
01		27	22	22	35	38	33	27	20	19	15	16	16	17	15	12	11	18	25	25	23	19	15	12	16	21
02		10	13	14	19	28	22	28	19	20	18	15	12	10	9	12	14	13	16	35	26	11	12	17	17	17
03		22	35	29	29	39	19	17	18	14	14	14	13	16	15	11	14	15	17	16	24	30	14	13	11	19
04		24	32	38	27	23	18	22	24	18	15	13	16	21	19	26	24	27	31	43	31	21	24	50	49	26
05		67	44	33	35	27	30	27	24	24	23	26	37	43	41	34	22	26	29	23	21	30	46	41	36	33
06		33	28	22	23	22	22	20	18	30	29	20	27	30	28	24	28	46	31	25	27	28	26	22	44	27
07		41	33	53	40	31	29	24	25	32	34	34	31	30	35	38	39	38	43	46	31	28	28	59	52	36
08 Q		34	31	32	27	26	28	32	32	33	31	27	31	31	27	28	29	31	28	21	17	24	23	20	18	28
09		13	22	17	16	13	15	16	14	15	17	17	13	9	12	17	24	26	22	17	19	15	15	15	26	17
10		30	11	10	11	13	13	15	14	9	10	12	11	14	14	14	9	11	11	21	26	30	41	48	83	20
11		79	87	102	106	84	79	55	59	39	34	32	29	24	25	22	25	28	25	18	19	25	21	35	24	45
12		19	34	43	23	18	18	23	18	19	21	25	39	40	45	36	25	11	4	4	7	13	17	15	10	22
13		10	11	10	19	31	25	16	24	22	24	20	20	20	14	15	22	17	17	11	10	15	16	9	11	17
14		12	14	15	16	19	16	9	10	13	12	10	10	12	14	12	9	10	10	7	11	15	14	13	13	12
15 Q		10	6	5	5	9	13	22	20	19	19	20	16	14	17	20	16	16	14	12	8	8	12	11	12	13
16		14	16	9	10	21	24	19	15	12	8	9	10	13	43	53	35	47	44	47	64	48	62	50	60	31
17		42	54	47	57	63	78	42	29	31	27	23	19	21	20	20	13	17	15	18	19	33	31	13	12	31
18		13	29	59	33	26	20	24	47	29	35	41	44	35	28	34	14	19	20	21	29	28	22	30	30	30
19		32	36	28	24	28	56	40	44	42	41	22	20	25	31	28	34	42	47	44	37	34	41	31	30	35
20		30	30	27	27	26	23	25	25	20	13	14	16	14	17	25	34	32	27	22	21	21	22	18	15	23
21		23	28	25	21	22	25	25	25	14	14	22	19	43	30	55	84	72	82	104	95	90	77	74	78	48
22		53	40	65	94	72	64	54	45	45	36	31	22	20	19	20	25	32	35	39	41	36	42	31	21	41
23		23	23	21	19	18	16	14	15	14	12	12	12	10	13	14	18	8	16	26	26	28	26	18	23	18
24		21	62	78	39	21	26	22	24	38	38	21	8	8	9	9	16	13	13	15	15	15	21	16	14	23
25		8	12	15	20	29	28	18	15	12	11	12	9	11	9	7	8	14	18	20	15	15	20	14	19	15
26 Q		22	19	15	14	12	9	8	9	11	14	10	8	10	7	6	8	8	7	5	8	16	21	15	8	11
27 Q		7	10	11	9	7	7	7	7	9	14	18	18	21	17	10	14	14	18	20	15	12	12	14	15	13
28 Q		10	17	19	17	11	7	7	10	11	13	14	10	9	7	6	8	9	10	12	14	16	17	15	10	12
29		8	6	4	2	4	8	10	8	4	9	14	15	13	12	13	17	17	16	13	16	11	12	14	10	11
30		16	25	21	36	40	28	24	17	8	9	12	17	20	18	23	29	32	25	19	28	21	27	20	16	22
MEAN		25	28	30	28	27	23	22	21	20	19	19	19	20	20	22	22	24	24	25	25	25	26	25	26	24

ASY-D INDEX		MAY 1997																								(PROVISIONAL)	nT
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
01	27	38	18	17	15	16	15	14	15	16	11	12	13	13	15	27	17	52	47	36	33	23	50	46	24	24	
02	51	16	13	17	18	9	11	18	15	12	10	18	17	16	13	13	17	15	9	5	10	13	18	21	16	13	
03	23	21	17	14	15	16	15	13	14	13	14	14	15	15	22	19	18	20	26	29	20	12	8	10	17	17	
04	13	11	13	18	16	15	15	17	12	10	12	15	13	15	17	12	12	29	42	46	37	21	18	14	18	18	
05	11	17	21	17	13	9	12	11	11	12	12	12	11	11	10	9	10	20	29	28	31	16	13	11	15	15	
06	12	16	17	16	16	14	14	15	16	17	15	19	17	14	10	9	11	14	24	27	20	8	8	9	15	15	
07	10	7	14	24	25	20	13	16	16	17	18	12	12	13	12	11	7	6	21	37	38	27	13	9	17	17	
08	13	21	33	31	22	15	13	14	18	16	14	15	13	12	11	9	10	13	21	30	25	19	13	6	17	17	
09	11	13	13	16	15	14	14	14	14	16	15	12	12	12	11	9	10	21	34	34	22	16	9	10	15	15	
10	14	22	29	33	34	25	12	8	11	14	16	16	16	17	15	12	8	10	16	20	18	12	9	12	17	17	
11	17	22	20	21	16	18	19	13	13	12	13	12	13	12	12	10	6	7	8	14	18	17	17	17	14	15	
12 Q	16	15	13	14	12	11	11	13	12	14	15	13	13	11	10	8	5	4	16	30	35	33	26	17	15	15	
13 Q	12	11	12	14	15	13	13	14	12	11	11	10	11	12	13	12	9	12	16	22	23	19	7	20	14	14	
14	25	19	13	10	10	10	17	16	15	11	14	11	10	10	14	16	21	30	27	17	18	16	16	18	16	16	
15	23	17	18	21	22	17	44	95	86	57	47	56	116	100	87	44	38	35	27	15	17	27	36	29	45	45	
16	21	21	20	16	7	9	8	9	16	14	10	11	12	15	39	43	41	28	20	19	10	16	21	18	18	18	
17	48	38	28	28	13	7	7	9	14	10	9	12	16	16	12	10	11	15	14	12	13	16	20	17	16	16	
18	10	9	13	18	17	11	7	3	6	6	9	9	8	6	9	13	15	14	16	20	18	18	17	11	12	12	
19 Q	7	8	7	8	9	10	9	7	4	4	4	4	3	5	6	4	7	7	12	16	23	27	29	25	10	10	
20	17	14	22	29	27	14	15	18	13	11	12	8	7	7	7	14	12	14	25	26	16	6	10	12	15	15	
21	11	7	11	16	10	8	6	6	9	9	8	5	7	9	13	6	14	31	33	27	19	15	15	11	13	12	
22	6	9	15	14	11	6	4	5	4	9	10	8	6	6	5	7	13	28	21	17	24	25	16	9	12	13	
23 Q	17	16	14	14	7	3	5	6	5	5	9	8	9	7	10	9	8	16	10	16	24	24	12	10	11	11	
24	20	32	31	30	21	11	7	7	11	11	12	11	12	13	3	5	14	27	19	12	25	31	27	31	18	18	
25	32	24	26	25	29	25	15	12	10	6	8	12	13	9	10	9	10	20	19	19	15	11	9	8	16	16	
26	6	15	23	19	11	11	13	15	13	9	10	11	13	14	8	7	10	14	26	20	16	13	16	15	14	14	
27	31	43	51	50	47	58	43	37	30	22	17	16	12	11	10	8	16	22	23	25	19	15	11	25	27	27	
28	12	9	8	7	5	7	11	15	18	9	7	5	12	14	7	8	11	15	20	18	11	11	15	12	11	11	
29 Q	7	4	3	10	10	6	4	6	4	4	5	5	4	5	4	5	10	16	20	15	8	3	13	23	8	8	
30	21	13	13	14	13	10	14	14	14	10	11	8	12	13	8	10	15	16	18	17	10	9	22	27	14	14	
31	19	11	4	5	9	11	8	14	21	20	13	6	3	3	3	6	7	17	17	16	8	12	22	17	11	11	
MEAN	18	17	18	19	17	14	13	15	15	13	13	12	15	14	14	12	13	19	22	22	20	17	17	17	16	16	

ASY-H INDEX		MAY 1997																								(PROVISIONAL)	nT
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
01	26	44	21	21	16	15	14	15	20	11	12	12	12	24	26	51	36	56	57	65	63	50	77	67	34	34	
02	54	32	27	28	30	29	22	22	21	21	16	10	13	22	27	24	26	27	31	27	23	18	15	21	24	24	
03	13	15	20	22	19	15	12	10	12	15	20	10	6	7	18	29	36	30	24	29	15	13	6	5	17	17	
04	11	13	13	17	25	24	16	17	10	7	6	8	8	10	18	25	26	23	32	19	19	15	16	12	16	16	
05	10	7	16	20	23	20	18	18	12	12	10	10	7	12	11	12	11	14	18	23	33	18	10	9	15	15	
06	8	13	23	34	40	32	25	22	16	10	9	11	21	33	30	32	35	31	33	35	30	23	19	14	24	24	
07	10	9	15	21	24	23	19	21	19	20	21	19	19	21	14	6	8	21	28	27	16	14	13	15	18	18	
08	13	12	23	26	27	30	34	27	14	11	12	15	12	12	9	7	9	13	11	5	9	14	12	15	15	15	
09	9	17	23	25	21	18	21	28	30	18	14	11	12	15	17	14	12	17	18	24	22	15	13	10	18	18	
10	7	6	11	19	24	24	19	18	12	12	7	5	6	15	22	25	20	10	9	8	7	6	14	22	14	14	
11	19	24	26	22	21	29	32	19	15	12	12	11	13	18	17	20	7	12	15	16	13	13	10	7	17	17	
12 Q	7	7	8	7	8	8	8	10	12	11	10	11	7	6	5	6	6	7	7	6	10	9	8	7	8	8	
13 Q	7	7	6	5	7	8	9	6	6	8	7	5	4	4	4	8	13	17	14	5	6	11	16	15	8	8	
14	8	9	12	11	4	5	8	7	6	10	11	10	6	7	14	18	30	29	35	34	36	27	27	23	16	16	
15	16	24	31	30	31	25	47	100	126	83	82	92	88	84	74	53	48	45	34	38	32	28	27	25	53	53	
16	25	29	35	37	41	28	25	20	19	18	17	20	28	36	64	55	63	61	49	40	41	37	37	42	36	36	
17	72	76	66	59	40	25	20	19	18	18	16	13	15	19	23	33	42	36	32	38	38	38	36	34	34	34	
18	27	30	26	27	28	22	21	18	16	15	13	11	9	7	7	13	28	28	27	32	28	26	22	26	21	21	
19 Q	19	16	16	12	12	11	10	11	10	6	7	7	5	11	11	6	15	14	8	8	11	18	18	14	11	11	
20	14	15	12	13	13	16	18	21	15	14	15	17	24	26	27	26	16	9	11	14	14	19	11	14	16	16	
21	21	20	17	17	13	8	8	5	4	7	8	7	5	10	20	9	9	16	17	15	14	20	13	6	12	12	
22	8	6	10	10	8	8	7	7	9	9	10	10	11	12	10	13	10	18	20	21	20	12	14	13	11	11	
23 Q	11	13	12	7	8	11	7	7	4	7	7	7	4	4	5	8	13	11	8	8	11	15	19	19	9	9	
24	13	7	9	15	15	11	8	7	8	8	6	16	17	26	45	40	35	31	28	28	23	20	17	22	19	19	
25	28	18	17	20	29	30	28	20	20	14	15	15	9	9	8	12	14	14	12	12	14	18	13	10	17	17	
26	8	11	12	11	13	15	14	12	12	13	14	18	20	25	36	48	29	33	41	26	27	47	29	23	22	22	
27	46	62	68	67	77	80	49	48	26	27	19	18	18	21	22	28	32	38	37	34	34	28	29	31	31	31	
28	37	34	24	22	17	16	15	16	11	10	8	10	9	29	28	21	19	13	12	9	10	14	12	19	17	17	
29 Q	20	20	21	16	9	11	13	17	22	22	25	24	25	24	20	15	12	8	6	7	10	14	14	11	16	16	
30	14	16	21	17	12	8	8	8	6	10	14	14	17	28	31	44	45	42	38	40	29	20	12	20	21	21	
31	13	14	14																								

DAY	ASY-D INDEX																								nT	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		24
01	29	19	15	14	13	7	10	9	9	10	12	9	9	9	10	15	14	7	7	12	14	12	17	21	21	13
02	20	15	8	3	2	7	6	4	5	5	7	8	7	6	14	10	9	10	14	16	17	19	21	25	11	14
03	23	19	21	24	21	14	16	20	13	9	12	13	11	8	7	10	9	6	13	16	16	12	6	13	10	10
04	13	8	4	8	10	4	3	5	5	4	5	6	6	8	11	10	15	20	17	9	14	20	15	19	10	9
05 Q	15	8	5	8	7	7	4	4	7	6	5	5	4	3	5	6	10	20	21	12	12	12	12	12	9	13
06	19	17	15	12	13	13	15	12	10	18	22	10	13	9	12	12	8	10	13	13	12	14	11	17	13	16
07	18	20	28	22	17	20	17	17	15	7	9	17	23	10	16	15	18	22	21	16	14	8	8	15	15	16
08	21	21	13	7	3	3	12	15	12	10	8	10	9	13	16	17	14	21	28	22	25	16	18	26	15	38
09	37	44	49	53	73	74	51	46	36	41	40	17	26	27	23	20	26	29	31	35	49	46	31	20	38	13
10	10	13	15	11	11	19	23	26	25	20	12	9	6	6	6	10	10	13	12	12	14	12	11	6	13	13
11	6	8	11	12	9	11	11	14	14	10	10	9	9	10	12	11	10	7	10	11	20	25	25	18	12	11
12	9	7	7	9	9	9	8	11	10	8	7	16	10	7	8	9	15	18	10	13	15	15	14	15	11	8
13 Q	10	8	9	10	8	5	5	6	6	7	7	7	7	6	5	5	6	8	8	13	12	7	8	9	7	8
14 Q	3	4	8	11	6	6	9	10	7	7	5	5	4	5	5	6	11	12	9	6	6	3	5	15	7	11
15	17	9	9	14	14	13	15	18	15	14	13	10	11	10	5	5	11	14	14	9	6	7	4	5	11	11
16	10	9	9	6	3	3	12	16	20	20	10	5	8	8	5	10	11	9	16	13	8	12	16	16	11	11
17	20	13	3	4	6	9	12	7	4	5	5	4	4	6	9	11	10	5	14	16	13	12	27	40	11	13
18 Q	37	30	17	15	12	10	6	5	4	3	6	6	6	6	5	4	7	17	28	30	24	17	15	6	13	13
19	8	14	13	6	7	6	11	14	18	22	14	18	13	14	22	24	26	25	28	31	31	25	30	37	19	19
20	18	9	4	5	4	7	15	18	20	17	14	12	14	13	9	12	17	21	19	14	13	14	16	10	13	13
21 Q	12	9	6	4	4	5	7	9	9	10	12	15	12	12	11	8	6	5	3	7	16	18	17	21	10	15
22	18	9	11	17	24	18	23	14	9	14	18	17	17	12	12	8	8	14	22	20	20	12	8	8	11	11
23	4	3	7	9	17	20	22	17	15	12	8	7	7	12	9	6	6	7	7	13	12	11	15	15	11	11
24	11	10	9	9	11	12	11	8	6	9	5	5	6	6	5	6	9	6	12	17	13	9	15	17	9	11
25	10	6	10	9	17	15	21	17	11	12	17	16	10	13	13	12	11	11	11	16	20	19	12	11	13	13
26	13	6	12	14	14	18	13	14	16	14	10	8	6	6	7	6	12	12	11	10	10	13	10	5	11	11
27	7	6	6	5	5	8	19	22	17	18	18	17	15	18	9	14	24	13	15	27	29	21	14	17	15	13
28	19	12	15	17	20	19	13	16	16	12	9	7	5	8	10	8	11	14	14	14	19	15	7	11	13	15
29	14	17	30	22	22	18	30	32	30	26	20	14	10	9	5	5	9	14	17	21	20	21	21	19	19	19
30	20	21	18	9	8	6	4	6	9	12	8	6	11	20	25	18	11	9	6	9	12	16	17	27	13	13
MEAN	16	13	13	12	13	13	14	14	13	13	12	10	10	10	10	10	12	13	15	16	17	16	15	17	13	13

DAY	ASY-H INDEX																								nT	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		24
01	21	28	35	26	17	19	22	22	24	23	22	19	17	16	16	15	13	12	20	10	7	15	19	17	19	22
02	11	13	22	23	19	16	21	27	27	21	18	22	22	17	21	28	22	22	23	17	18	29	29	36	22	22
03	27	24	32	36	29	23	48	55	44	33	26	21	19	14	12	19	16	16	14	12	17	20	14	23	25	22
04	26	27	28	23	25	23	23	20	15	14	14	14	16	12	15	17	12	10	32	45	46	30	18	17	22	22
05 Q	16	18	21	20	19	19	19	16	16	17	17	17	22	28	22	12	8	11	14	22	21	20	24	23	18	18
06	21	29	27	25	25	22	21	25	24	21	21	19	13	14	17	16	17	17	11	10	11	28	15	13	19	19
07	16	21	44	47	30	37	34	27	29	34	37	35	67	56	44	29	21	18	17	14	22	19	24	31	31	31
08	33	30	28	26	29	31	49	30	26	24	26	25	34	41	57	55	51	46	51	53	66	59	55	56	41	41
09	67	73	72	98	135	118	75	76	65	65	99	59	53	61	67	58	56	52	46	41	40	32	33	31	65	65
10	25	30	27	29	35	38	46	44	42	29	25	25	26	28	22	17	19	31	39	41	40	36	33	31	31	31
11	26	32	24	23	21	20	13	12	10	11	10	9	9	13	17	21	28	27	23	18	13	10	11	12	17	17
12	12	9	12	13	14	13	15	14	17	14	12	20	21	23	15	13	20	23	24	14	7	13	9	8	15	15
13 Q	10	8	7	12	13	13	16	12	7	5	4	6	4	7	5	6	7	5	8	10	14	15	11	12	9	9
14 Q	14	11	7	8	11	9	10	9	11	8	4	5	6	11	9	9	6	7	6	5	5	8	8	6	8	8
15	6	11	25	32	33	26	9	11	10	5	5	6	9	10	21	21	19	25	23	13	10	7	9	6	15	15
16	10	9	9	10	10	8	7	9	10	8	10	10	12	12	12	13	18	15	18	13	14	15	9	7	11	11
17	11	12	10	7	9	18	15	9	6	6	8	11	13	11	10	10	17	24	20	15	8	10	10	13	12	12
18 Q	7	7	10	7	8	10	8	6	6	7	5	5	6	6	9	8	10	6	12	15	16	14	11	9	9	9
19	8	9	9	11	10	13	15	18	25	26	23	28	38	36	28	26	32	33	35	35	27	23	26	31	24	24
20	8	12	13	10	15	18	17	16	16	13	8	9	16	16	16	14	15	16	18	27	32	28	22	16	16	16
21 Q	15	10	9	16	16	13	16	17	16	12	8	10	14	21	26	23	16	13	17	11	11	16	13	17	15	15
22	21	20	18	13	27	15	12	12	15	11	12	7	8	9	17	28	34	36	25	22	21	22	20	18	18	18
23	20	15	11	10	12	14	17	22	24	19	19	18	14	16	12	16	23	21	21	24	28	20	17	17	18	18
24	14	14	19	16	13	12	14	15	12	12	8	10	10	6	12	18	20	23	25	28	27	23	21	18	16	16
25	13	11	10	14	21	23	21	24	24	22	20	21	16	23	18	15	12	25	38	45	34	25	17	14	21	21
26	30	18	14	13	13	12	11	15	18	18	17	13	12	16	19	24	22	21	21	26	29	27	23	18	19	19
27	16	17	15	17	16	13	11	15	15	22	32	47	33	20	20	19	42	35	28	29	32	22	17	9	23	23
28	11	11	18	19	27	35	25	21	17	19	18	13	16	15	14	11	17	20	19	17	9	9	19	35	18	18
29	36	32	40	42	41	32	34	31	27	28	16	9	8	8	17	14	14	15	23	18	21	24	21	19	24	24
30	13	19	18	12	11	13	16	16	12	13	17	10	9	7	17	30	26	26	16	14	16	22	21	23	17	17
MEAN	19	19	21	22	23	22	22	22	20	19	19	17	19	19	20	20	21	22	23	22	22	21	19	20	21	21

DAY	ASY-D INDEX						JUL 1997										(PROVISIONAL)						nT		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01 Q	27	16	9	7	9	9	7	5	6	16	16	10	4	5	9	9	6	8	12	10	6	14	13	10	10
02	9	7	4	4	7	5	7	9	13	9	3	3	8	11	10	8	6	5	7	6	8	9	11	19	8
03	16	9	7	5	6	7	5	6	9	13	10	7	9	8	11	9	14	22	21	13	10	11	13	19	11
04	16	11	9	11	11	11	7	7	5	13	8	10	7	7	8	6	3	10	22	22	8	9	14	13	10
05	13	17	12	7	5	4	5	9	15	12	10	7	5	5	5	6	4	5	4	4	3	4	6	12	8
06	10	8	7	8	9	14	11	15	11	15	11	6	8	8	8	4	2	4	9	18	27	31	29	22	12
07	6	4	5	12	19	23	27	20	20	27	22	12	13	11	10	14	11	18	28	29	39	51	29	16	19
08	14	10	15	12	8	6	4	7	10	16	15	7	6	8	5	10	16	14	12	11	15	18	15	12	11
09	9	17	20	19	8	7	9	15	9	11	14	10	8	9	8	8	19	19	32	38	33	18	11	10	15
10	13	9	5	5	8	12	18	17	21	20	23	13	6	9	13	13	13	12	12	10	11	13	16	16	13
11	12	10	8	6	3	5	10	17	14	6	8	6	7	10	10	9	10	5	4	9	12	9	8	15	9
12 Q	18	15	14	6	4	4	4	4	2	4	6	4	3	5	6	4	11	11	8	11	8	8	14	20	8
13 Q	16	11	10	11	10	11	13	11	7	4	3	4	5	7	4	4	12	11	13	13	5	11	12	13	9
14 Q	12	13	7	6	7	6	6	8	6	4	6	5	7	14	9	6	8	7	7	6	6	12	15	18	8
15	23	13	7	4	5	7	12	12	8	14	12	15	12	17	29	43	48	41	44	44	30	11	11	13	20
16	19	24	27	16	9	12	9	10	10	14	14	10	5	6	9	8	7	10	8	2	4	4	10	22	11
17	27	26	29	19	13	8	6	8	6	6	14	12	9	10	10	7	4	5	9	11	15	22	19	17	13
18	15	18	24	24	21	8	14	13	11	13	9	13	11	8	9	11	17	25	29	25	27	25	19	18	17
19	26	30	32	31	22	15	19	23	14	13	15	9	15	9	10	10	17	19	10	18	14	11	14	24	17
20	29	32	23	14	8	5	9	9	8	6	9	8	7	7	10	8	8	11	16	13	6	13	19	19	12
21	20	16	8	8	14	15	10	13	8	9	13	13	8	9	13	14	11	16	15	9	9	8	8	10	11
22	7	4	4	3	6	7	11	12	10	8	8	6	6	5	5	9	8	9	18	17	11	6	3	9	8
23	15	10	8	21	22	17	9	4	6	5	4	4	3	8	10	6	7	14	9	7	4	8	7	11	9
24	7	9	6	6	18	25	22	16	14	14	21	18	17	17	15	15	20	35	36	23	18	20	21	22	18
25	20	16	18	20	20	21	15	11	8	9	7	7	5	7	8	5	6	12	8	12	17	15	10	12	12
26	8	21	14	11	12	11	9	11	12	13	11	9	11	14	16	16	9	7	12	12	13	11	9	8	12
27	12	13	15	13	11	10	13	17	16	17	15	14	14	16	15	14	12	11	13	14	17	18	13	12	14
28	11	6	5	9	13	14	13	12	14	14	21	16	14	17	16	14	15	13	5	5	9	5	2	5	11
29 Q	5	10	11	12	13	14	14	15	16	17	15	12	11	11	13	11	6	6	7	13	13	8	13	13	12
30	19	17	12	11	9	13	25	17	16	22	24	16	15	14	11	7	9	13	18	23	24	19	18	18	16
31	18	26	26	34	15	18	15	13	19	22	21	18	13	14	12	10	12	8	7	6	7	11	16	18	16
MEAN	15	14	13	12	11	11	12	12	11	12	13	10	9	10	11	10	11	13	15	15	14	14	14	15	12

DAY	ASY-H INDEX						JUL 1997										(PROVISIONAL)						nT		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01 Q	19	18	18	14	8	7	7	9	10	8	7	5	9	18	12	7	9	9	7	9	14	11	15	17	11
02	12	9	5	4	6	8	10	12	10	9	5	3	4	7	15	15	13	12	13	17	22	16	12	18	11
03	28	32	23	19	18	11	3	5	4	8	5	8	16	21	29	18	10	9	8	17	22	19	15	20	15
04	27	25	11	5	5	10	10	12	11	8	7	8	6	5	8	12	22	25	18	12	10	10	14	16	12
05	15	11	6	7	5	4	8	11	10	10	4	6	5	7	7	9	11	10	17	20	13	8	7	7	9
06	10	13	13	10	8	19	16	12	10	8	6	6	6	9	8	7	6	9	7	16	18	24	19	13	11
07	9	10	7	15	30	31	28	19	16	24	16	28	32	41	36	25	23	25	29	31	35	44	38	22	26
08	18	12	15	18	26	22	11	11	10	6	9	8	6	14	21	11	11	19	28	26	20	23	20	19	16
09	13	30	37	31	15	13	13	18	12	12	11	12	12	9	13	17	33	29	49	47	42	40	29	18	23
10	9	15	16	18	14	12	22	13	20	13	10	8	10	13	17	16	13	13	21	19	16	15	9	6	14
11	6	9	14	15	15	14	15	10	10	9	9	10	8	9	11	13	12	9	11	12	14	10	9	7	11
12 Q	9	9	7	6	6	8	7	5	5	7	8	6	7	8	4	8	18	23	20	11	6	10	8	7	9
13 Q	12	11	8	4	4	7	6	7	8	8	4	4	4	5	6	9	11	12	22	23	14	10	13	12	9
14 Q	7	10	9	9	5	4	9	14	15	16	10	10	11	10	9	7	12	11	9	9	12	9	6	6	10
15	6	6	7	9	14	11	18	14	18	19	23	40	35	45	60	79	79	66	60	45	32	17	14	11	30
16	10	16	16	13	9	14	17	14	15	17	14	8	10	12	12	10	7	7	15	17	15	11	7	7	12
17	10	12	14	16	8	7	17	28	20	18	14	9	8	9	8	9	10	7	10	20	22	16	16	4	13
18	8	7	9	13	23	25	23	18	13	11	10	8	11	21	25	11	9	10	13	20	22	23	18	28	16
19	23	11	12	17	19	19	15	19	16	12	18	23	6	13	13	12	14	13	16	16	18	17	17	16	16
20	16	13	7	9	14	12	13	10	9	16	18	22	10	8	7	11	12	17	20	18	16	17	20	25	14
21	19	13	13	13	7	8	10	10	7	16	16	14	17	20	30	33	23	21	16	17	14	14	12	12	16
22	7	7	14	16	13	7	6	6	8	8	7	11	10	7	8	22	25	24	20	15	11	12	14	15	12
23	12	14	13	13	12	9	9	10	10	8	8	6	6	6	14	19	15	18	19	13	13	9	11	11	12
24	11	21	27	24	18	10	9	11	13	17	21	21	17	24	39	22	18	14	17	21	21	29	27	21	20
25	21	14	11	8	13	13	8	8	12	8	7	5	11	5	4	13	19	14	15	13	14	19	19	17	12
26	17	15	9	9	11	13	17	11	11	12	13	11	8	11	14	15	18	22	19	16	12	17	16	13	14
27	10	8	8	8	10	14	28	21	19	13	10	14	17	20	24	19	9	10	12	10	8	8	10	11	13
28	16	12	10	12	11	9	10	11	12	14	9	7	12	15	18	14	14	11	14	15	14	24	27	23	14
29 Q	19	14	12	13	11	8	9	10	13	13	13	12	15	19	17	13	11	11	12	13	14	10	16	17	13
30	17	12	12	30	26	22	15	14	13	12	11	10	8	9	13	17	19	20	16	11	11	16	20	20	16
31	11	13	29	55	33	35	29	33	35	35	32	26	19	15	14	13	21	21	14	11	9	17	18	15	23
MEAN	14	14	13	15	13	13	14	13	13	13	11	12	12	14	17	16	17	17	18	18	17	17	16	15	15

ASY-D INDEX		AUG 1997																								(PROVISIONAL)	nT
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
01	25	19	10	11	7	7	6	7	17	17	7	6	9	16	20	15	10	11	19	21	17	9	8	7	13		
02	10	6	4	5	5	6	8	6	6	5	4	5	6	8	7	7	6	11	11	14	25	32	27	16	10		
03	18	14	7	4	3	6	6	6	6	10	8	11	7	15	17	22	46	51	50	40	32	15	22	9	18		
04	8	12	15	12	7	14	12	11	14	6	5	9	8	9	7	12	18	11	7	8	13	16	16	15	11		
05 Q	8	4	6	5	5	3	3	7	9	9	5	4	5	4	5	4	5	3	8	10	5	12	16	16	7		
06 Q	11	9	5	6	7	4	3	4	6	5	4	6	5	5	9	12	8	15	11	7	15	19	16	7	8		
07	18	25	27	23	17	7	7	14	11	8	5	9	9	8	8	5	7	14	18	17	20	24	22	21	14		
08	19	7	8	12	10	4	8	10	18	20	17	9	10	11	7	16	14	11	13	16	22	19	9	4	12		
09	7	11	6	4	5	4	6	7	6	4	12	11	8	8	4	10	18	16	11	23	32	30	18	4	11		
10	12	19	21	13	5	3	16	10	19	19	15	8	7	4	3	9	9	10	18	26	30	24	16	19	14		
11	32	37	26	29	21	7	6	5	6	10	13	13	14	10	8	8	9	6	12	13	11	9	10	14	14		
12	14	12	14	12	10	6	3	5	8	11	10	10	4	9	8	5	11	9	11	13	11	10	11	16	10		
13	11	9	6	5	5	9	14	7	9	13	17	11	9	8	4	5	14	10	15	19	20	26	20	25	12		
14	32	36	31	15	27	24	23	22	16	16	13	8	10	12	7	5	10	12	13	12	13	16	15	23	17		
15	26	22	15	10	6	6	5	12	5	21	6	6	3	6	6	8	16	13	19	12	10	16	21	22	12		
16	25	28	23	13	8	12	10	6	13	9	10	13	14	12	13	9	6	3	7	10	12	12	15	17	13		
17	17	13	9	5	5	5	7	11	15	10	9	17	18	18	16	18	25	24	27	29	26	16	5	8	15		
18	11	10	7	5	5	6	11	14	10	12	19	13	9	9	9	20	14	14	14	8	6	5	5	10	10		
19 Q	8	9	10	10	8	7	13	20	18	11	5	5	7	5	6	7	6	9	8	10	12	16	20	17	10		
20	7	7	13	9	6	4	2	4	6	3	3	4	5	6	5	6	6	11	14	8	5	4	7	16	7		
21	14	8	3	6	21	12	8	6	6	6	9	16	11	9	8	5	8	6	10	10	10	9	5	6	9		
22	8	18	16	10	12	8	6	11	6	4	3	5	8	11	12	10	11	11	12	12	9	8	8	8	9		
23 Q	5	5	6	5	4	4	6	11	12	16	14	3	3	5	5	5	6	6	6	8	9	7	6	7	7		
24	11	7	10	7	4	5	4	3	7	7	9	8	10	8	9	10	10	9	10	11	11	8	17	9	8		
25	11	6	8	12	9	6	9	10	12	9	8	4	3	2	3	8	14	10	4	6	12	8	11	14	8		
26 Q	12	4	6	10	7	5	9	13	13	12	7	4	6	4	6	7	5	3	4	4	8	11	11	3	7		
27	8	15	12	6	2	9	10	9	9	7	9	7	5	8	12	8	3	4	6	4	5	8	11	8	8		
28	11	5	4	9	18	17	8	15	22	17	12	15	11	10	11	7	10	22	32	28	21	21	27	22	16		
29	10	11	21	16	17	8	10	16	10	14	21	16	9	11	12	9	12	21	28	21	16	18	19	26	16		
30	26	15	5	5	7	17	8	8	16	19	15	11	8	10	12	19	10	10	13	12	15	17	12	9	12		
31	9	13	19	20	11	5	7	10	9	14	17	15	8	6	8	6	3	5	14	21	17	7	4	5	10		
MEAN	14	13	12	10	9	8	8	10	11	11	10	9	8	9	9	10	11	12	14	15	15	15	14	13	11		

ASY-H INDEX		AUG 1997																								(PROVISIONAL)	nT
DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
01	25	27	20	18	17	14	13	16	20	17	19	21	17	15	18	20	25	18	16	15	20	18	19	15	18		
02	16	15	6	10	11	13	18	23	17	15	10	7	12	17	17	18	16	17	12	13	13	8	4	7	13		
03	12	11	14	11	5	4	7	9	14	15	21	19	28	31	21	57	60	61	59	55	51	22	30	15	26		
04	11	10	17	12	13	16	19	19	18	21	18	14	19	18	16	16	15	13	18	22	21	17	14	12	16		
05 Q	16	13	10	7	17	18	13	11	7	8	7	9	7	7	10	11	10	8	11	13	11	10	16	15	11		
06 Q	11	4	11	17	17	12	8	8	9	7	4	9	18	16	19	25	27	31	27	12	13	12	14	13	14		
07	17	21	16	7	5	9	18	16	15	20	17	9	6	9	12	13	7	9	12	15	24	24	15	14	14		
08	19	19	15	17	22	22	20	15	13	14	13	17	17	9	11	11	17	29	33	25	20	15	19	13	18		
09	11	9	9	10	10	10	10	13	14	4	9	11	13	15	40	48	38	21	20	16	20	28	14	13	17		
10	12	14	11	10	8	18	31	47	31	20	15	14	8	9	8	13	8	5	6	11	19	18	17	21	16		
11	25	26	17	27	39	22	18	12	10	8	14	22	24	25	18	12	13	23	25	24	25	24	20	14	20		
12	9	9	7	9	12	10	15	13	10	13	12	9	10	14	16	15	12	8	12	26	36	36	20	28	15		
13	24	18	18	15	9	14	31	21	11	21	13	9	7	7	8	12	21	22	18	20	18	43	23	19	18		
14	26	33	24	21	39	69	70	56	39	33	19	16	15	18	19	24	30	24	17	16	14	22	20	14	28		
15	10	14	20	19	12	8	10	16	7	16	8	15	21	21	14	6	12	14	17	16	18	15	10	6	14		
16	10	18	24	28	25	17	10	18	25	21	19	19	17	9	7	7	6	11	19	20	21	20	14	10	16		
17	14	14	15	15	12	9	10	23	28	25	28	37	26	37	31	24	36	29	27	27	31	28	20	18	24		
18	20	18	13	10	10	11	15	15	18	19	23	20	17	21	29	26	17	14	10	12	20	21	16	14	17		
19 Q	11	7	10	19	24	27	26	20	14	13	18	24	31	30	20	16	13	14	10	9	9	10	13	17	17		
20	13	7	12	14	12	8	16	20	23	20	15	11	11	7	6	4	10	12	9	10	9	13	10	11	12		
21	16	15	19	15	37	28	19	12	8	7	12	13	10	11	13	13	13	5	7	12	14	15	19	16	14		
22	11	24	20	16	22	26	18	9	12	13	8	6	5	9	10	19	15	8	7	12	22	27	27	15	15		
23 Q	17	22	20	19	16	18	21	19	12	8	8	9	8	9	7	9	8	13	18	17	14	9	12	15	14		
24	11	8	13	16	19	20	17	14	21	30	33	26	24	24	22	21	9	13	20	18	16	14	16	11	18		
25	8	10	14	11	12	17	18	17	16	17	17	14	15	16	18	21	14	12	11	9	7	7	9	9	13		
26 Q	10	9	9	7	10	15	17	15	11	9	9	11	12	11	9	9	11	12	12	12	13	9	8	12	11		
27	17	21	19	11	10	24	32	27	17	14	13	9	13	10	9	14	15	15	13	13	11	12	14	21	16		
28	26	19	12	25	64	62	41	41	51	41	29	27	22	13	9	16	20	30	40	34	21	20	32	24	30		
29	22	16	10	23	31	24	23	41	34	34	35	32	26	25	21	13	19	36	31	25	27	29	16	11	25		
30	7	6	10	8	15	38	19	13	13	22	28	19	15	15	19	25	15	15	33	30	31	53	27	11	20		
31	19	20	11	10	11	15	12	10	17	21	11	5	10	8	6	11	19	25	22	19	21	19	14	15	15		
MEAN	15	15	14	15	18	20	20	20	18	18	16	15	16	16	16	18	18	19	19	19	20	19	16	15	17		



DAY	ASY-D INDEX																								SEP 1997 (PROVISIONAL)																								nT
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN																							
01																																																	
02 Q	4	9	15	22	19	16	12	8	5	9	11	14	13	8	8	8	10	11	16	20	29	28	13	5	13	15																							
03	7	20	38	35	26	17	18	20	11	12	12	12	10	14	10	16	20	22	40	75	59	26	16	23	23																								
04	24	17	44	25	13	16	15	21	29	29	20	26	11	6	6	9	8	11	19	23	17	13	14	12	18																								
05	13	10	7	7	7	11	13	11	7	12	10	7	4	5	5	5	8	9	14	16	13	6	6	10	9																								
06	9	13	14	12	14	21	26	26	19	11	11	12	9	4	6	6	6	8	12	10	17	20	17	13	13																								
07 Q	6	10	15	13	5	11	15	16	7	9	17	16	5	5	11	7	5	6	5	9	12	13	11	9	10																								
08	8	7	7	8	5	17	26	22	10	5	11	10	9	7	10	9	25	17	17	18	26	19	15	13	13																								
09	12	10	7	7	11	12	24	37	31	20	22	13	15	14	10	21	23	26	24	15	11	14	18	28	18																								
10	31	19	15	12	14	14	27	34	27	26	10	18	28	30	43	44	35	37	36	32	30	26	36	37	28																								
11	25	22	12	8	5	8	19	31	25	19	18	11	16	17	15	11	11	10	11	7	9	9	12	22	15																								
12	23	20	24	20	18	7	8	26	35	42	27	13	24	18	11	11	27	19	17	10	18	10	13	16	19																								
13	16	15	22	16	19	17	12	16	24	30	20	12	15	12	12	8	7	15	21	11	16	11	7	15	15																								
14	8	7	14	16	11	10	8	11	19	37	21	11	10	9	18	24	21	25	14	23	30	21	12	9	16																								
15	15	22	40	22	26	32	22	16	30	35	27	33	16	7	12	15	21	24	16	13	17	17	12	25	21																								
16	36	38	32	20	20	13	12	15	16	14	9	9	6	6	10	6	17	26	20	10	7	11	13	20	16																								
17	17	10	6	6	7	9	9	7	7	10	13	15	15	13	10	12	18	24	36	28	27	29	26	35	16																								
18	27	20	51	54	48	28	25	16	24	21	17	17	15	15	21	18	33	39	39	47	48	39	28	13	29																								
19 Q	11	12	11	7	6	6	9	8	13	21	28	23	17	8	6	8	7	8	11	13	17	10	12	12	12																								
20	10	8	12	11	7	7	11	14	15	15	17	10	16	9	9	9	11	12	8	6	9	13	17	17	11																								
21	18	16	12	7	6	6	7	8	21	21	19	11	3	5	5	11	12	43	33	38	33	29	37	28	18																								
22	25	20	12	21	18	18	12	15	8	9	15	7	6	10	9	6	10	18	22	22	13	8	14	16	14																								
23	11	12	16	20	17	8	5	10	13	8	5	5	5	9	9	8	11	12	12	9	15	7	6	10	10																								
24	12	17	11	9	7	9	16	12	9	8	5	6	7	10	12	7	6	7	10	13	13	9	6	6	9																								
25 Q	8	10	8	7	8	5	7	9	7	4	5	5	7	5	4	10	8	15	17	14	10	15	18	11	9																								
26 Q	7	16	25	23	11	11	24	24	19	17	12	11	6	7	9	7	6	12	14	10	4	11	11	7	13																								
27	9	12	12	9	8	12	16	12	15	21	21	18	12	6	6	34	55	69	41	26	21	17	20	17	20																								
28	17	12	17	19	14	21	21	29	17	12	15	13	19	23	10	10	12	12	17	18	21	19	15	8	16																								
29	7	10	10	15	7	8	17	18	7	18	15	15	14	11	8	6	6	7	15	23	21	16	14	16	13																								
30	11	9	10	14	14	15	5	18	24	32	24	10	16	15	10	13	19	19	15	14	18	18	13	8	15																								
MEAN	15	15	18	16	14	13	15	18	17	18	15	13	12	10	11	12	15	19	19	19	20	18	16	16	16																								

DAY	ASY-H INDEX																								SEP 1997 (PROVISIONAL)																								nT
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN																							
01																																																	
02 Q	22	22	24	20	16	20	15	13	13	14	14	18	23	24	21	25	28	22	17	15	19	19	17	15	19																								
03	12	15	15	16	21	22	19	15	14	14	16	17	21	23	28	29	25	19	19	17	26	26	24	19	20																								
04	15	18	34	28	25	20	17	14	17	31	11	13	16	28	34	31	30	36	31	28	58	87	73	24	30																								
05	18	23	57	48	26	27	28	36	31	22	18	21	17	18	22	30	29	24	21	16	19	25	17	13	25																								
06	14	12	10	12	16	15	13	14	12	8	9	7	8	13	16	18	24	20	11	7	12	13	13	13	13																								
07 Q	13	11	7	7	12	29	16	13	16	19	15	18	25	21	17	16	11	11	16	26	29	31	30	23	18																								
08	17	11	10	10	8	9	8	9	7	8	12	18	15	16	10	10	7	8	11	11	9	8	8	7	10																								
09	4	5	7	5	5	4	6	9	9	18	21	15	11	17	23	26	26	30	28	16	20	30	12	10	15																								
10	11	11	7	11	20	27	37	55	58	36	38	53	39	35	24	30	27	30	26	22	20	17	13	32	28																								
11	38	28	25	21	29	30	26	18	22	25	26	23	23	26	32	36	37	42	47	24	30	28	41	46	30																								
12	27	21	15	9	14	28	28	16	22	35	36	34	27	24	14	11	7	13	23	21	23	22	22	30	22																								
13	36	26	41	34	42	42	32	18	13	18	16	24	26	28	19	12	21	16	17	15	33	27	27	23	25																								
14	20	26	36	22	17	26	26	22	16	11	11	8	8	11	16	15	15	14	16	15	8	7	9	20	16																								
15	9	14	28	27	24	20	20	24	28	30	16	23	18	18	21	24	18	24	19	17	17	11	9	11	20																								
16	15	27	47	41	38	30	32	34	40	27	21	23	18	17	22	26	23	25	27	21	18	21	33	32	27																								
17	28	25	22	20	21	28	29	23	13	12	11	8	8	10	18	20	21	19	19	23	26	31	25	17	20																								
18	12	8	8	12	10	9	9	18	17	21	20	18	14	15	18	24	22	24	38	36	29	29	34	39	20																								
19 Q	36	41	84	75	65	61	56	42	25	19	20	17	17	18	31	38	53	62	64	53	34	25	26	15	41																								
20	19	19	14	10	10	11	11	13	12	10	10	9	12	13	14	15	12	9	9	10	15	14	17	16	13																								
21	13	8	11	10	8	16	22	33	30	36	47	36	38	19	16	13	7	5	10	11	13	18	17	12	19																								
22	15	24	25	19	13	15	19	25	34	39	33	28	18	14	9	19	29	51	41	50	56	69	57	29	30																								
23	32	33	25	27	20	16	17	18	18	19	12	9	11	9	10	12	10	11	15	18	17	12	9	16																									
24	11	12	10	9	10	11	10	12	8	6	9	6	8	11	15	20	27	25	24	23	16	14	8	5	13																								
25 Q	8	11	11	11	9	13	18	12	8	8	4	6	8	11	14	12	12	13	16	19	20	17	13	10	12																								
26 Q	10	10	10	15	21	28	31	22	13	8	7	8	8	16	22	29	23	18	15	12	11	16	13	12	16																								
27	13	13	14	18	18	17	17	15	19	21	26	27	23	20	20	18	15	13	12	13	12	11	12	9	17																								
28	8	14	26	18	16	17	21	24	27	50	53	47	31	30	33	40	61	69	47	34	15	17	19	22	31																								
29	27	22	33	34	37	68	53	58	31	36	58	58	48	41	29	30	35	37	33	29	22	14	11	14	36																								
30	15	16	17	16	13	13	29	40	19	21	17	14	8	6	8	16	22	28	26	15	10	10	9	10	17																								
MEAN	18	18	23	21	20	23	23	23	21	22	21	21	19	19	20	22	24	25	24	22	22	23	21	18	21																								

DAY	ASY-D INDEX																								OCT 1997																								(PROVISIONAL)																								nT
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN																																															
01	13	11	10	6	6	13	22	13	15	24	35	65	57	60	70	83	51	43	19	11	8	8	10	23	28																																																
02	36	41	37	24	10	8	9	13	18	16	8	8	7	11	13	12	13	16	13	12	15	14	10	8	15																																																
03	6	12	13	7	12	14	6	8	12	11	17	19	9	10	12	10	13	21	24	23	17	7	5	12	13																																																
04	11	14	15	9	13	20	18	16	13	8	6	10	9	11	11	14	15	13	14	16	10	12	13	15	13																																																
05 Q	11	9	13	15	15	16	14	14	11	9	8	9	8	9	11	8	5	6	5	5	5	8	9	14	10																																																
06 Q	11	8	7	5	7	8	9	5	7	12	10	8	7	8	13	13	12	8	5	6	13	19	21	16	10																																																
07	8	7	10	11	16	13	9	10	16	15	12	11	8	8	16	12	14	17	15	8	8	14	15	6	12																																																
08	8	16	22	16	13	10	10	14	16	13	12	14	34	31	12	29	30	14	12	9	12	22	30	21	18																																																
09	27	24	22	20	18	24	38	23	19	19	19	14	26	21	5	13	18	8	11	17	13	12	10	7	18																																																
10	9	6	6	8	9	20	23	14	16	20	23	22	18	8	10	11	13	33	48	49	29	34	69	78	24																																																
11	77	62	69	49	63	37	22	26	40	45	47	33	17	8	5	5	5	4	13	21	20	13	8	11	29																																																
12	16	12	12	18	15	7	6	11	13	14	9	11	8	10	10	12	14	14	10	11	12	5	6	11	11																																																
13	15	11	8	15	17	21	19	15	15	18	7	5	5	7	8	16	21	14	10	14	15	7	5	11	12																																																
14	21	25	18	10	10	9	6	9	11	15	10	7	7	12	9	13	22	28	17	11	17	14	8	11	13																																																
15	21	21	13	5	7	7	4	6	8	4	9	9	7	9	7	12	20	29	18	11	7	5	11	16	11																																																
16 Q	14	9	6	4	4	8	7	9	9	12	8	7	6	3	5	7	11	18	15	10	6	6	7	11	8																																																
17	13	12	13	9	4	6	5	3	4	5	8	13	8	13	17	15	18	20	18	13	8	5	7	16	11																																																
18	26	21	14	10	9	10	10	9	7	4	5	3	3	5	3	7	11	10	8	5	6	7	7	12	9																																																
19 Q	15	8	4	5	4	5	8	11	6	4	5	5	6	5	4	4	3	5	6	5	5	7	7	6	6																																																
20	12	17	15	13	9	5	10	24	33	37	21	7	6	6	5	11	13	15	9	8	12	19	20	17	14																																																
21 Q	7	3	2	5	7	13	15	11	5	9	8	10	9	9	10	11	13	15	12	11	11	19	20	17	10																																																
22	14	11	7	13	27	31	29	18	7	6	7	7	8	12	16	21	22	24	19	9	16	32	34	30	18																																																
23	21	12	9	10	14	17	13	8	14	25	27	16	11	13	15	15	14	12	15	14	18	26	32	27	17																																																
24	22	20	18	10	15	22	22	14	20	29	21	13	36	37	22	15	17	19	12	11	13	19	28	31	20																																																
25	39	28	39	37	26	31	27	14	25	34	37	27	37	34	31	24	18	19	17	12	15	26	30	28	27																																																
26	29	16	15	16	24	30	28	16	19	34	35	22	19	24	24	28	41	32	22	18	21	35	27	27	25																																																
27	24	22	27	21	31	43	37	22	27	49	42	26	21	23	22	18	13	16	27	28	34	35	34	32	28																																																
28	29	22	25	29	35	31	20	24	38	36	24	23	23	40	39	42	24	23	27	21	31	32	29	28	29																																																
29	22	21	22	18	17	24	29	19	19	29	27	21	23	24	25	21	15	12	10	12	23	31	32	32	22																																																
30	28	21	22	21	21	20	18	15	14	23	25	26	44	34	22	18	13	14	7	13	28	36	37	33	23																																																
31	25	23	25	24	24	33	36	25	15	16	16	17	17	20	22	20	16	15	13	21	34	41	40	32	24																																																
MEAN	20	18	17	15	16	18	17	14	15	19	18	16	16	17	16	17	17	17	17	15	14	16	18	20	21	17																																															

DAY	ASY-H INDEX																								OCT 1997																								(PROVISIONAL)																								nT
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN																																															
01	6	17	20	21	16	17	28	30	58	98	62	81	56	60	67	78	83	84	28	15	14	14	20	16	41																																																
02	14	25	35	30	22	15	8	7	9	11	7	9	11	11	11	14	14	15	16	19	15	14	15	20	15																																																
03	15	10	12	17	22	27	20	12	31	18	15	20	27	25	9	9	10	21	23	19	18	18	14	18																																																	
04	9	9	9	7	11	14	15	13	18	22	14	8	5	13	7	10	11	14	13	11	5	8	9	11	11																																																
05 Q	10	9	8	5	7	6	5	13	20	15	8	10	9	8	5	5	3	4	7	5	6	10	10	10	8																																																
06 Q	8	8	8	9	12	11	10	11	12	12	14	16	19	18	17	18	17	12	6	7	8	14	16	15	12																																																
07	11	12	11	18	15	12	13	21	26	16	11	13	11	16	18	18	12	23	19	19	16	18	44	24	17																																																
08	15	15	19	17	16	21	21	28	26	12	8	12	32	43	26	38	37	21	26	18	17	31	62	41	25																																																
09	36	38	30	24	29	32	60	42	23	23	18	14	27	31	15	19	29	26	37	55	37	33	18	13	29																																																
10	15	18	15	19	33	33	39	37	21	29	32	38	44	33	25	18	13	33	81	68	71	56	86	67	38																																																
11	81	71	85	99	102	69	41	31	35	17	21	21	19	17	17	16	20	27	27	25	22	16	13	9	38																																																
12	14	23	22	16	20	18	10	10	8	24	20	23	20	14	11	15	17	19	17	9	8	8	6	8	15																																																
13	15	23	21	16	15	14	15	22	23	34	38	34	31	21	12	15	18	16	13	13	16	14	10	8	19																																																
14	10	14	18	17	12	12	9	4	6	8	9	11	13	12	12	7	8	18	28	24	17	11	11	5	12																																																
15	8	16	17	12	11	10	11	9	10	11	9	12	11	13	5	17	25	26	18	18	11	9	7	9	13																																																
16 Q	8	11	7	6	6	7	6	12	9	6	4	11	8	6	7	14	17	13	12	14	12	12	10	12	10																																																
17	11	7	6	11	14	16	14	8	7	6	13	14	11	26	17	15	21	22	15	10	13	25	16	9	14																																																
18	14	17	19	18	17	18	21	18	14	15	17	17	18	14	12	11	13	13	14	13	14	13	10	15	15																																																
19 Q	10	12	10	8	9	13	9	14	14	13	18	17	16	12	4	6	3	3	11	17	15	16	18	14	12																																																
20	12	12	10	11	10	13	17	13	17	18	15	22	29	36	35	27	22	15	9	10	11	16	18	15	18																																																
21 Q	10	12	9	10	11	12	14	14	15	15	16	20	27	29	22	17	12	5	5	10	12	14	16	14	14																																																
22	11	10	10	22	19	11	15	18	16	19	19	22	32	41	38	31	24	19	14	12	17	22	26	23	21																																																
23	20	17	15	14	16	19	20	30	33	28	33	32	29	30	28	31	34	31	27	24	22	23	40	30	26																																																
24	23	26	30	41	38	28	29	31	48	63	54	48	76	121	72	51	45	37	30	26	25	29	31	25	43																																																
25	58	48	76	56	51	38	38	35	33	38	50	60	54	59	53	49	43	29	27	18	18	27	28	38	43																																																
26	58	41	51	46	35	34	44	47	46	45	45	47	44	41	32	45	51	30	26	21	20	57	35	31	40																																																
27	23	32	54	46	59	51	49	30	27	35	40	48	43	35	27	23	22	21	30	56	46	45	48	46	39																																																
28	50	30	31	35	37	35	26	30	31	25	36	43	42	37	30	27	25	39	43	19	27	34	25	33	33																																																
29	22	22	32	27	36	40	47	42	47	52	52	37	29	29	23	14	12	13	17	16	18	24	29	28	30																																																
30	27	27	27	32	40	45	40	35	36	36	46	53	47	48	22	9	7	8	13	13	24	27	30	27	30																																																
31	24	21	27	34	43	43	33	32	36	33	30	31	35	35	28	18	14	22	20	17	19	26	27	23	28																																																
MEAN	21	21	24	24	25	24	23	23	24	26	25	27	28	30	23	22	22	21	22	21	19	22	25	21	23	23																																															

DAY	ASY-D INDEX						NOV 1997										(PROVISIONAL)						nT				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	24	MEAN
01		7	7	11	22	28	16	10	9	4	6	10	16	14	11	9	8	9	10	11	12	12	8	11	13	18	12
02 Q		18	8	9	13	12	12	9	9	12	20	27	24	13	9	9	11	16	17	13	10	10	11	10	9	13	13
03		9	9	10	15	16	13	11	13	20	22	21	13	10	11	13	12	13	16	19	13	14	11	14	19	14	14
04		16	16	14	19	24	25	19	17	18	17	17	17	13	15	21	9	16	19	13	16	19	19	23	16	17	17
05		10	10	13	15	14	9	7	7	10	15	23	31	28	36	22	30	21	16	13	9	11	16	21	23	18	18
06		16	14	15	14	25	25	20	17	23	23	9	14	12	11	11	12	22	21	22	22	20	15	12	25	17	17
07		12	24	51	58	62	67	45	49	42	43	29	15	16	29	19	22	36	29	25	20	15	14	23	31	32	32
08		27	21	14	16	19	13	14	25	36	31	13	10	12	14	14	17	18	14	10	14	12	10	11	12	17	17
09		11	11	12	15	24	26	18	11	13	13	13	15	14	13	12	8	7	6	7	12	21	12	18	24	14	14
10		18	18	25	35	35	28	20	26	29	34	27	15	8	12	20	28	28	12	7	9	12	17	28	34	22	22
11		25	16	9	13	40	36	21	13	16	18	16	13	9	12	14	10	9	12	14	21	25	21	22	23	18	18
12		15	11	7	13	23	28	19	11	11	11	9	9	14	17	15	9	7	7	5	4	11	9	14	13	12	12
13		9	11	12	10	10	17	13	8	25	29	19	8	3	7	9	8	6	9	14	15	11	8	17	24	13	13
14		17	11	7	6	5	15	16	11	11	13	8	8	12	21	26	19	23	23	22	22	15	19	16	16	16	16
15		16	14	9	10	12	11	7	16	28	33	24	12	8	11	20	22	20	24	16	16	18	17	15	15	16	16
16		14	5	8	19	26	18	7	11	24	27	20	15	13	11	12	11	7	14	13	9	7	14	11	9	14	14
17		23	21	14	29	40	36	20	12	27	30	18	9	8	8	12	12	8	9	13	15	17	19	11	8	17	17
18		11	10	6	10	11	7	15	28	41	40	28	16	24	51	20	12	10	9	6	7	8	9	9	7	16	16
19 Q		6	6	7	8	9	5	7	11	13	12	10	11	11	8	9	10	9	7	7	11	12	13	13	12	10	10
20 Q		13	10	6	7	5	5	8	23	28	20	8	4	4	4	8	7	4	3	4	2	1	4	6	6	8	8
21 Q		7	8	5	7	10	7	6	11	11	8	5	5	5	6	7	5	5	5	3	3	3	4	4	3	6	6
22		9	13	11	11	6	13	18	16	7	9	20	61	106	33	59	84	36	15	13	20	20	11	21	38	27	27
23		56	48	82	67	43	26	18	30	33	16	40	35	54	31	23	11	14	15	17	19	22	9	15	21	31	31
24		16	15	12	9	14	6	20	27	20	14	15	17	16	18	20	9	11	14	7	8	13	11	9	14	14	14
25		17	14	8	7	8	7	7	6	4	4	5	4	4	3	2	2	4	6	7	7	5	4	6	6	6	6
26		7	8	12	8	7	10	12	8	3	4	8	10	7	7	9	8	7	5	4	4	5	6	5	5	7	7
27 Q		8	9	8	8	4	3	3	3	2	3	12	11	7	5	7	8	5	3	6	8	7	8	7	5	6	6
28		3	7	9	12	6	7	10	19	21	16	8	5	4	4	9	10	7	8	8	4	6	8	8	7	8	8
29 Q		6	6	6	9	7	7	9	12	9	7	13	16	10	5	9	13	12	10	8	8	8	7	9	15	9	9
30		8	6	9	13	10	11	12	11	17	15	11	8	7	8	10	17	14	14	9	6	6	9	13	6	10	10
MEAN		14	13	14	17	18	17	14	15	19	19	17	15	16	14	14	15	13	12	11	12	12	12	13	16	15	15

DAY	ASY-H INDEX						NOV 1997										(PROVISIONAL)						nT				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	24	MEAN
01		14	12	10	18	29	23	22	23	18	11	10	7	5	6	10	11	9	9	22	18	16	14	16	11	14	14
02 Q		9	6	4	5	9	9	9	14	12	11	7	6	8	14	18	16	12	10	13	14	12	13	11	3	10	10
03		4	5	8	6	5	8	15	22	20	13	8	7	12	23	29	20	11	7	25	19	20	18	21	23	14	14
04		16	9	13	23	30	36	36	39	31	31	33	28	28	24	30	20	21	27	26	25	22	18	21	21	25	25
05		21	13	11	13	14	8	7	13	21	52	75	75	77	54	22	28	33	27	18	17	19	19	20	18	26	26
06		22	20	18	24	39	31	35	26	24	20	16	11	10	12	13	22	32	31	29	31	18	18	20	37	23	23
07		39	79	117	121	110	123	94	79	37	43	48	44	37	40	43	47	56	44	38	35	32	29	21	57	57	
08		25	29	27	19	16	18	27	30	23	16	15	15	16	14	9	9	16	19	16	15	16	14	14	15	18	18
09		15	13	13	17	22	20	34	21	21	18	15	15	13	8	5	9	13	13	12	15	45	19	21	30	18	
10		45	48	43	40	35	36	45	47	35	31	26	20	20	16	11	20	32	28	21	12	8	9	12	21	28	28
11		30	36	31	24	30	25	32	35	30	28	31	20	34	34	37	39	35	31	28	19	12	11	13	17	26	26
12		29	36	29	25	23	18	19	19	22	27	27	23	16	9	7	8	12	18	21	20	17	14	13	12	19	19
13		23	25	25	24	20	11	13	12	10	13	20	21	16	16	15	11	16	21	25	21	15	10	12	16	17	17
14		24	17	14	14	17	14	9	11	14	24	25	39	42	54	43	44	45	46	34	25	20	35	19	20	27	27
15		27	30	24	21	27	27	35	37	37	37	35	29	22	19	13	21	26	28	23	28	23	23	18	21	26	26
16		32	27	30	29	26	19	16	16	16	20	18	31	29	21	17	12	16	17	17	10	12	14	15	18	20	20
17		40	46	25	29	29	19	12	15	20	16	11	16	13	11	9	13	16	15	17	23	27	25	12	14	20	20
18		15	15	13	10	9	11	11	15	16	17	13	13	21	53	41	29	25	14	11	15	30	19	16	13	19	19
19		13	12	11	14	16	14	10	12	13	18	18	16	17	17	15	16	10	10	9	5	16	18	15	11	14	14
20 Q		11	10	10	11	7	6	4	7	9	10	12	12	16	19	16	15	11	11	9	6	7	10	9	9	10	10
21 Q		11	9	6	10	6	4	3	7	12	18	21	16	12	9	6	8	9	10	10	10	6	5	6	9	9	9
22		12	16	23	38	37	47	57	41	31	32	72	85	133	85	46	63	50	27	11	20	34	22	34	78	46	46
23		112	102	114	89	77	69	52	40	32	29	50	64	67	41	29	26	27	29	29	31	25	22	18	20	50	50
24		22	16	12	18	25	20	19	11	16	11	9	17	26	23	15	10	12	21	12	18	18	12	10	14	16	16
25		16	20	22	23	31	28	20	13	14	19	23	20	15	13	13	13	11	12	17	20	17	15	14	16	18	18
26		15	11	10	12	19	16	18	26	28	27	27	22	20	19	20	13	14	15	11	10	13	12	11	12	17	17
27 Q		14	14	12	11	10	16	16	14	19	18	15	17	17	15	10	12	17	16	12	11	8	6	6	6	13	13
28		9	12	10	10	12	16	13	8	13	17	19	19	17	12	10	10	10	5	10	15	16	9	7	9	12	12
29 Q		10	11	11	12	11	7	10	12	13	17	16	8	5	7	9	9	4	5	5	6	6	7	8	9	9	9
30		7	14	16	17	23	30	26	24	25	21	17	21	14	11	13	16	20	15	11	13	14	12	10	9	17	17
MEAN		23	24	24	24	25	24	24	23																		

DAY	ASY-D INDEX																								DEC 1997																								(PROVISIONAL)																								nT	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22
01	21	22	23	25	26	25	23	27	33	33	28	26	26	26	24	23	23	22	21	22	23	18	20	18	24																																																	
02	18	19	21	21	21	21	19	18	18	22	21	22	20	22	22	21	23	21	19	17	15	12	10	14	19																																																	
03	15	15	15	15	16	13	13	21	38	47	39	19	15	17	17	14	11	11	12	11	8	7	10	13	17																																																	
04	16	13	13	24	38	36	26	13	11	12	12	23	21	18	17	12	13	12	11	7	11	13	12	17																																																		
05	19	19	19	19	14	13	12	18	18	22	18	14	12	13	20	23	15	18	14	14	14	15	16	16																																																		
06	18	15	15	15	16	16	17	16	16	19	20	15	15	16	15	15	15	17	18	16	15	14	15	17	16																																																	
07	19	17	16	20	18	16	15	15	14	14	13	12	15	17	15	14	16	17	17	17	15	10	9	11	15																																																	
08	11	13	14	16	17	17	15	14	14	12	11	11	12	15	13	14	16	18	19	17	16	12	12	14	14																																																	
09	13	13	12	11	14	14	14	12	11	10	9	8	8	8	9	11	14	15	13	12	10	10	11	11																																																		
10	8	8	9	10	13	18	19	13	18	18	28	24	18	12	25	40	28	31	24	24	20	19	20	17	19																																																	
11	25	23	25	23	26	21	18	13	12	19	21	19	12	6	9	6	7	12	11	11	16	10	10	18	16																																																	
12	20	16	13	12	9	10	22	24	13	5	11	21	19	6	7	10	11	11	8	8	11	6	5	13	12																																																	
13	17	13	11	11	10	7	18	27	32	26	12	6	5	6	8	12	17	17	17	13	13	15	9	7	14																																																	
14	8	10	13	18	16	11	7	7	12	10	7	11	12	6	4	8	10	8	9	8	13	16	10	13	10																																																	
15	16	13	13	14	13	12	12	13	23	22	13	6	8	9	8	12	16	18	17	14	10	13	14	8	13																																																	
16	11	11	15	14	14	9	7	7	11	6	9	16	21	19	12	6	11	12	10	13	12	9	6	8	11																																																	
17	16	15	16	14	11	8	9	10	10	11	6	4	5	7	6	6	8	9	8	9	5	8	11	9	9																																																	
18	15	21	22	18	23	25	16	8	8	7	6	6	7	9	9	10	17	20	13	9	11	10	11	13	13																																																	
19	14	18	19	16	11	10	11	9	11	11	9	7	8	8	9	11	16	19	15	9	7	4	5	5	11																																																	
20	6	7	12	11	7	8	8	6	6	10	12	12	7	4	6	8	10	11	8	7	8	9	10	7	8																																																	
21	9	12	8	8	8	10	7	8	8	14	14	7	17	16	8	6	10	14	9	11	11	9	9	13	10																																																	
22	12	10	10	11	14	12	8	5	8	15	11	6	10	6	5	3	10	16	14	13	8	3	4	8	9																																																	
23	8	8	8	8	10	14	19	27	16	9	15	20	16	8	7	7	5	6	5	5	9	8	5	10	11																																																	
24	17	17	11	13	11	16	19	13	6	4	4	4	7	12	7	6	6	6	6	7	3	7	4	13	9																																																	
25	15	10	9	9	11	9	9	10	8	7	7	3	8	11	12	11	8	8	12	10	8	7	9	8	9																																																	
26	8	9	11	12	10	9	9	9	15	18	16	10	11	10	10	8	5	3	5	9	14	20	21	19	11																																																	
27	16	12	11	11	26	31	33	26	20	12	11	14	10	10	13	8	3	4	8	6	7	12	12	18	14																																																	
28	20	17	15	12	10	11	12	16	13	10	11	20	20	12	13	12	12	12	10	8	8	8	8	13	13																																																	
29	12	15	17	26	20	15	36	50	45	16	27	44	39	22	11	13	15	16	18	13	9	5	7	9	21																																																	
30	10	16	21	29	42	32	12	22	29	24	26	31	31	39	56	49	74	60	66	29	10	5	14	28	32																																																	
31	27	21	23	23	24	20	20	38	45	38	16	10	14	7	4	6	8	6	9	13	14	14	11	9	17																																																	
MEAN	15	14	15	16	17	16	16	17	18	16	15	15	15	13	13	13	15	15	15	12	12	11	11	12	14																																																	

DAY	ASY-H INDEX																								DEC 1997																								(PROVISIONAL)																								nT	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22
01	24	23	23	24	22	27	27	23	20	19	18	21	31	22	19	12	12	15	16	18	23	17	25	32	21																																																	
02	23	22	22	19	22	22	18	19	20	18	14	19	21	20	20	17	15	10	7	10	20	13	11	17	17																																																	
03	18	17	12	13	16	25	23	21	20	18	14	13	17	10	5	5	9	13	10	8	4	6	11	20	14																																																	
04	16	12	10	7	14	23	24	14	8	12	11	14	18	15	9	8	14	17	13	9	14	31	27	14	15																																																	
05	17	16	12	8	15	14	12	12	10	19	26	23	16	10	14	24	18	15	13	18	28	42	29	16	18																																																	
06	16	19	16	14	18	12	9	9	9	7	12	9	12	12	8	5	7	12	10	9	10	8	8	8	11																																																	
07	9	10	8	12	13	12	17	18	21	22	18	13	12	9	6	4	4	5	10	15	14	14	6	4	11																																																	
08	6	9	11	16	22	18	10	7	9	15	20	18	15	12	8	5	9	8	9	10	8	6	7	6	11																																																	
09	9	11	12	11	12	14	17	16	13	13	8	7	19	22	14	12	7	6	6	9	7	3	5	9	11																																																	
10	9	10	9	7	5	9	18	25	28	21	37	54	83	59	41	58	71	56	40	34	27	37	38	16	33																																																	
11	25	27	37	35	34	33	35	32	27	27	33	46	51	27	14	13	13	16	18	20	13	13	15	13	26																																																	
12	10	9	12	24	25	22	17	20	20	24	24	19	13	10	7	9	11	10	11	14	17	12	5	5	15																																																	
13	12	13	14	19	24	32	26	18	13	17	16	13	9	6	4	7	11	14	18	19	15	8	4	5	14																																																	
14	5	8	9	18	29	38	39	24	10	9	8	10	10	6	12	16	12	8	11	8	6	9	12	14	14																																																	
15	15	16	24	37	41	39	30	22	28	29	23	17	9	5	5	12	17	22	23	22	15	8	6	6	20																																																	
16	9	10	23	30	27	19	12	9	12	14	9	8	9	13	10	10	11	8	15	20	17	19	22	10	14																																																	
17	8	8	11	12	13	19	20	13	9	11	21	31	28	18	9	6	5	5	4	4	15	22	13	13	13																																																	
18	12	21	18	21	30	32	26	26	24	21	21	16	14	9	7	5	5	11	10	7	7	8	13	18	16																																																	
19	18	18	18	10	14	26	20	10	13	15	20	23	21	16	13	14	19	14	13	10	14	14	12	8	15																																																	
20	6	6	3	5	10	14	16	17	12	10	16	24	21	13	8	11	13	13	14	16	8	9	8	8	12																																																	
21	14	26	16	14	15	20	21	14	9	11	12	12	10	14	9	14	21	25	24	20	15	11	14	14	16																																																	
22	19	19	19	16	18	16	11	10	7	8	9	5	11	13	15	22	20	13	15	16	12	8	9	9	13																																																	
23	12	11	13	15	21	16	12	6	12	9	13	17	17	8	9	8	10	10	8	11	12	11	10	9	11																																																	
24	16	19	13	11	14	14	21	24	13	10	11	14	14	11	14	13	12	7	8	12	10	10	10	12	13																																																	
25	18	22	24	23	20	7	10	11	10	8	10	11	7	11	17	14	5	3	3	3	3	4	8	12	11																																																	
26	15	15	18	14	8	3	4	8	10	14	23	26	21	17	13	11	10	16	20	18	15	12	14	12	14																																																	
27	11	17	23	18	8	6	10	13	18	17	8	16	15	12	12	17	18	15	20	18	12	9	7	10	14																																																	
28	15	13	14	22	29	31	10	11	13	19	15	6	7	9	11	10	6	6	9	11	10	8	11	13	13																																																	
29	13	15	24	40	49	48	24	12	21	31	23	8	8	7	11	14	14	10	11	12	12	10	10	16	18																																																	
30	21	16	26	40	42	57	36	21	27	36	76	81	85	85	78	58	64																																																									



