

**PROVISIONAL GEOMAGNETIC  
DATA PLOTS  
No. 2**

(January - June, 1990)

OCTOBER 1990

DATA ANALYSIS CENTER FOR GEOMAGNETISM  
AND SPACE MAGNETISM  
FACULTY OF SCIENCE,  
KYOTO UNIVERSITY









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## PREFACE

This booklet contains provisional plots of the geomagnetic data for January - June, 1990. One minute values of the horizontal (or the northward) component are plotted after subtracting the monthly mean of the five-quiet days. The purpose of this booklet is to give the information of world-wide geomagnetic disturbances with high-time resolution as early as possible. Hence the provisional data without base-line control are included. There still remain artificial noises on the plots though we tried to eliminate them. Users should be careful on these points, and the plots in this booklet should not be used in other publications.

The one-minute time resolution provisional data from the U.S. stations (i.e. SAH, BRW, CMO, TLK, SJG, BOU and HON) and the Narssarssuaq station (NAS in this booklet) were provided by the World Data Center-A through their RGON database. The data from Leirvogur (LRV) were provided by the Leirvogur Magnetic Observatory, University of Iceland. The data from Kakioka (KAK) were provided by the Kakioka Magnetic Observatory. The data from Lunping (LNP) were provided by the Telecommunication Training Institute. The data from Hermanus (HER) were provided by the Hermanus Magnetic Observatory. The distribution and information of these stations are shown in Figure 1 and Table 1, respectively. The Kp index was provided by Geophysical Institute, Gottingen University.

The users who need further information or the digital data, please consult to:

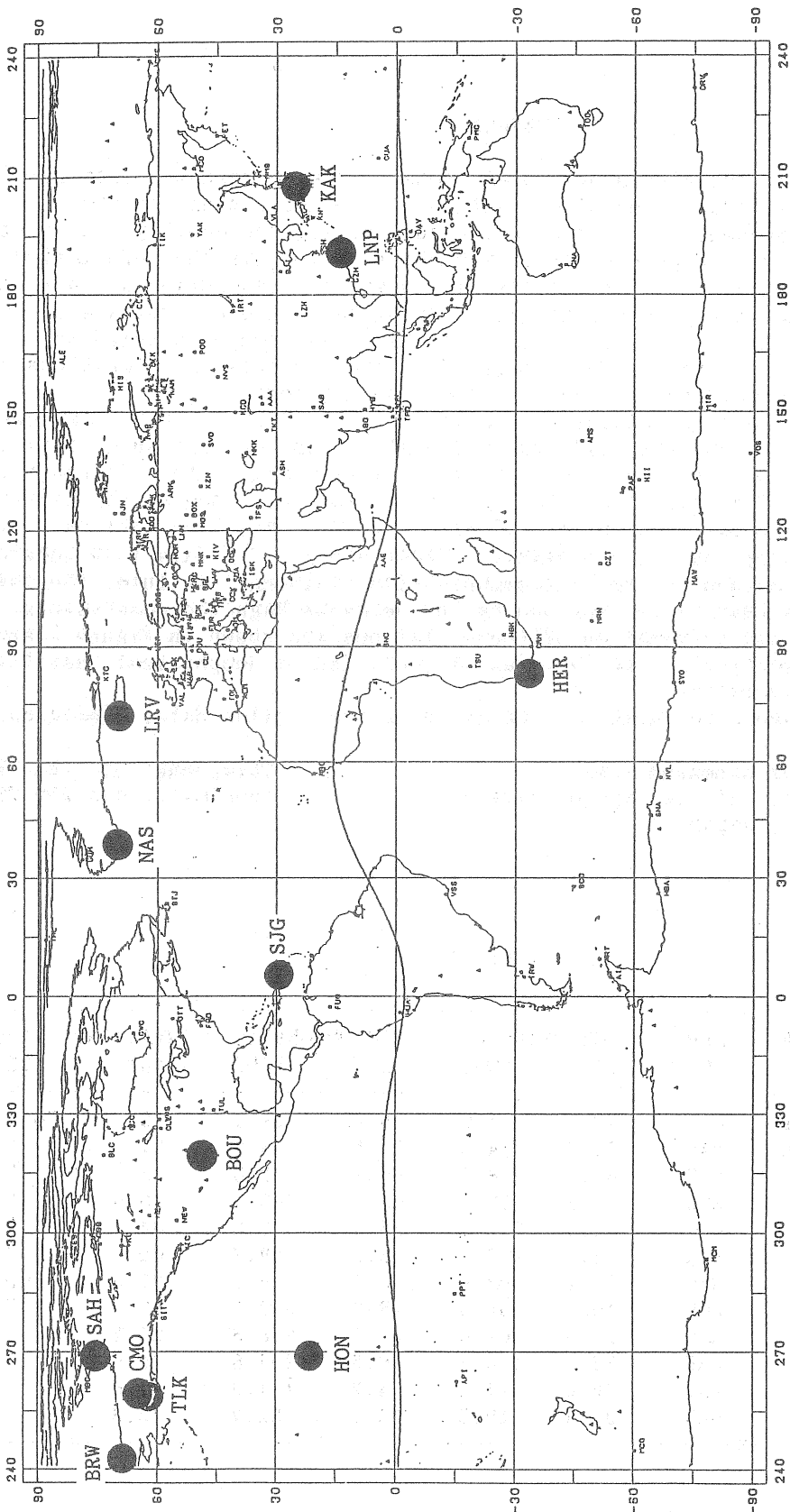
WDC-C2 for Geomagnetism,  
Faculty of Science, Kyoto University,  
Kyoto 606, Japan.

Telephone: 075-753-3929  
Facsimile: 075-722-7884

Table 1.

STATION NAME	ABB CODE	GEOGRAPHIC		GEOMAGNETIC		INVARIANT LAT.	PLOT SCALE
		LAT.	LONG.	LAT.	LONG.		
Sachs Harbor	SAH	72.0	235.0	75.4	269.1	76.3	500nT/div
Narssarssuaq	NAS	61.2	314.6	70.6	38.7	67.5	"
Leirvogur	LRV	64.2	338.3	69.7	72.0	65.7	"
Barrow	BRW	71.3	203.3	69.1	243.7	69.6	"
College	CMO	64.9	212.2	65.1	259.2	64.8	"
Talkeetna	TLK	63.3	209.9	63.3	258.7	62.7	"
San Juan	SJG	18.4	293.9	29.1	5.2	32.5	100nT/div
Boulder	BOU	40.1	254.8	48.7	319.0	49.1	"
Honolulu	HON	21.3	202.0	21.5	268.6	20.2	"
Kakioka	KAK	36.2	140.2	26.6	207.8	25.9	"
Lunping	LNP	25.0	121.2	14.2	191.3	7.6	"
Hermanus	HER	-34.4	19.2	-33.7	82.7	43.6	"

# DISTRIBUTION OF GEOMAGNETIC OBSERVATORIES



# GEOMAGNETIC COORDINATES (1985.0)

—— OIP EQUATOR AT 100 KM ALTITUDE

Fig.1 Data are obtained at the observatories shown by the solid circles.

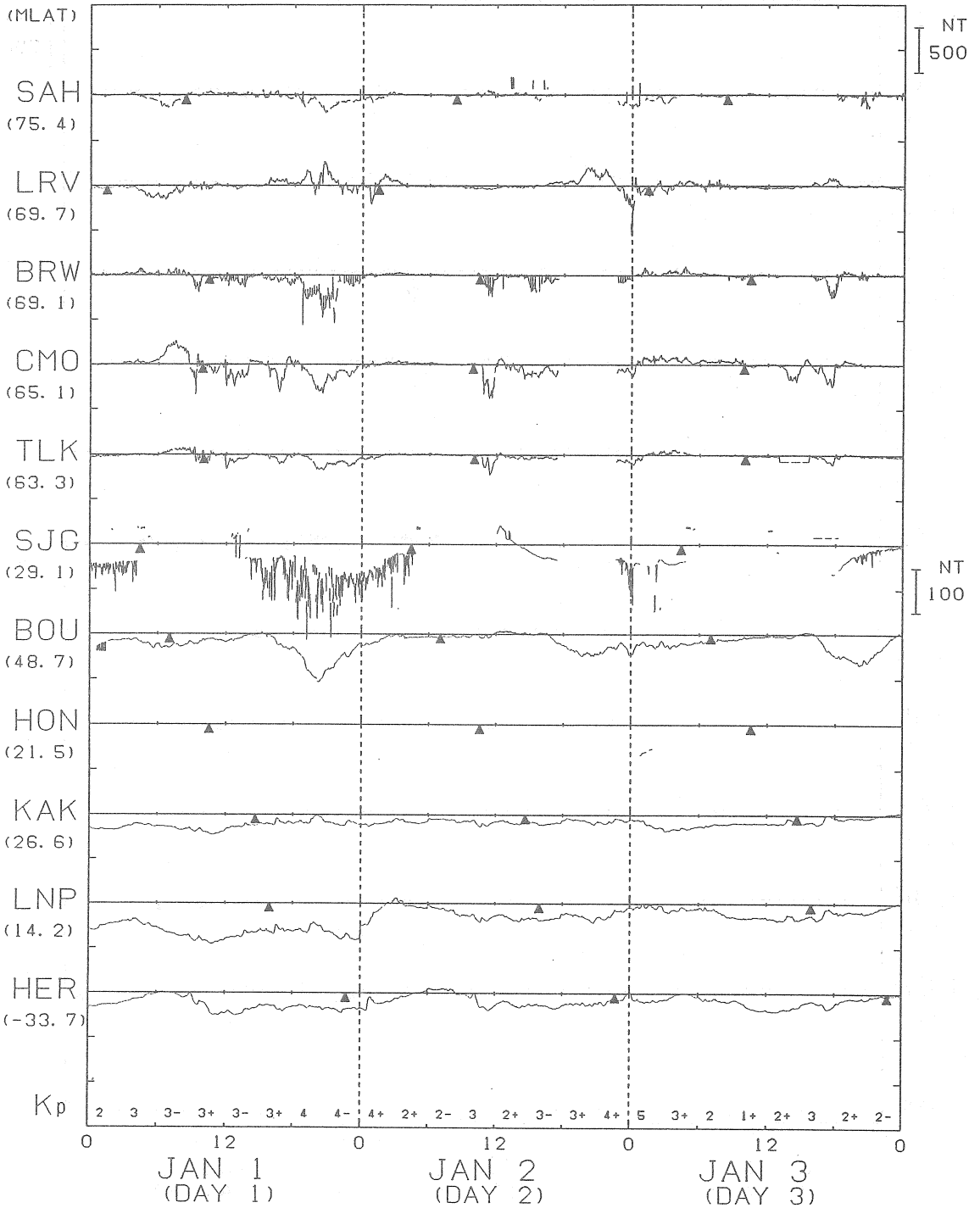
JANUARY 1990

(DAY 001 - 031)



1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

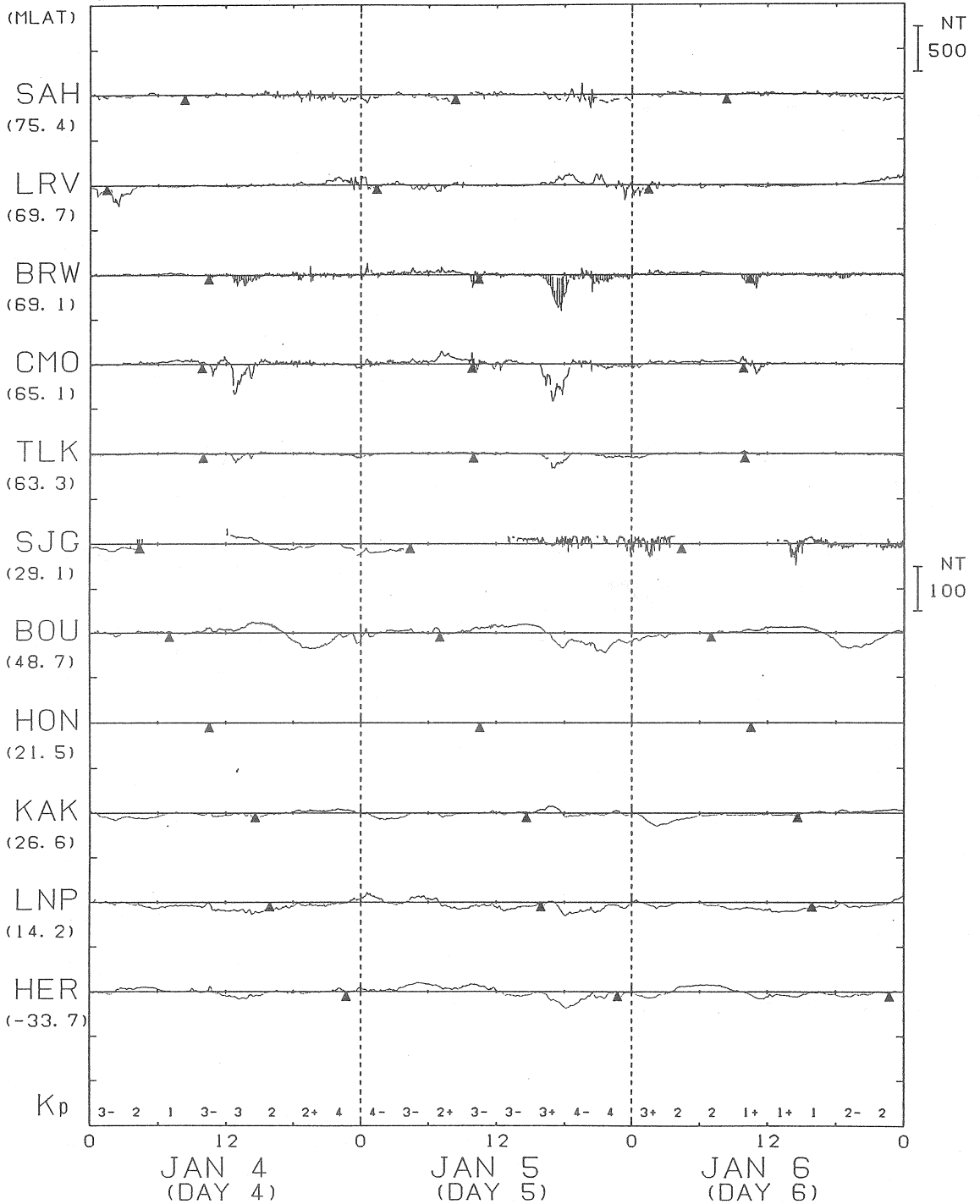


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH



# 1990 H OR X-COMPONENT

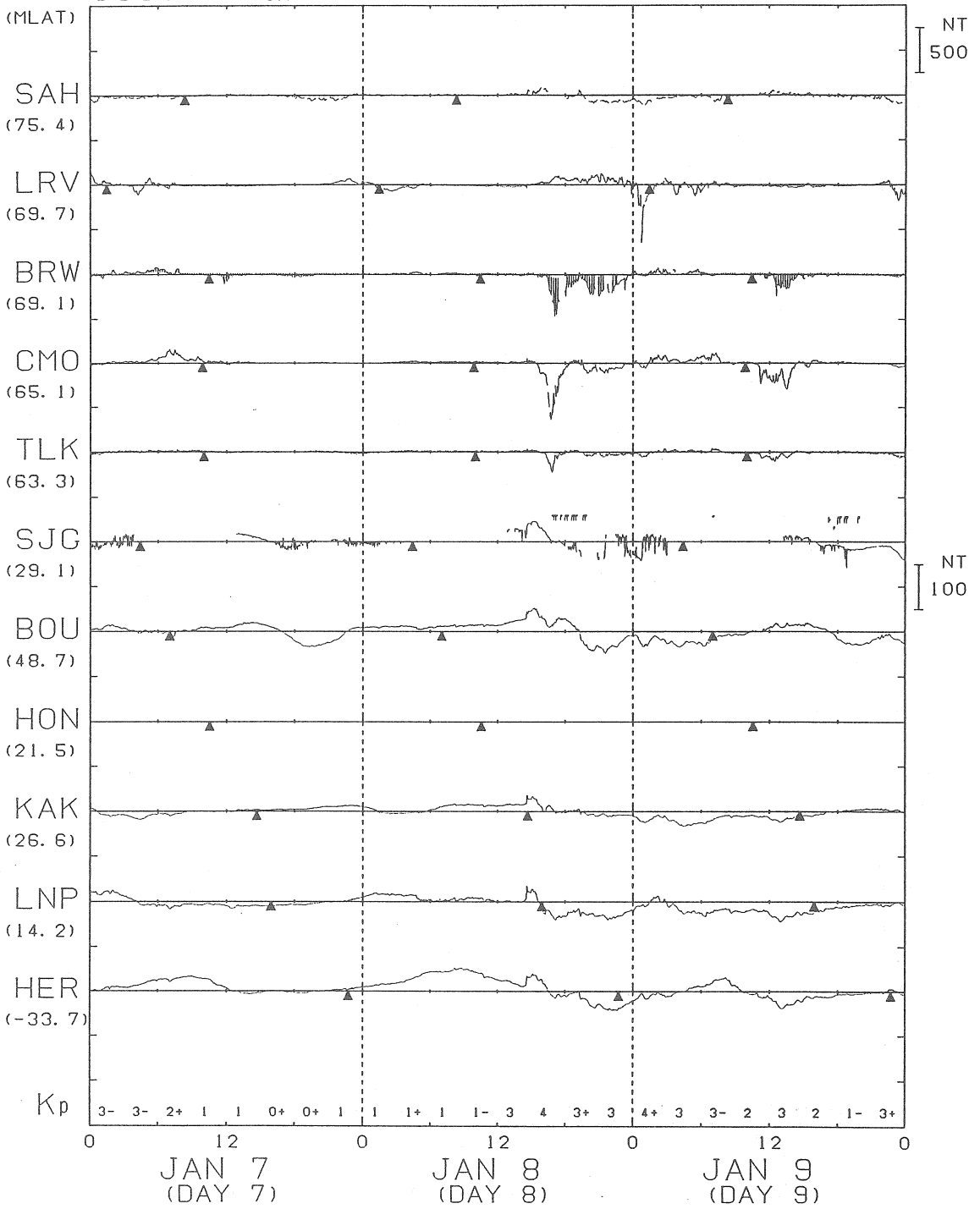
▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
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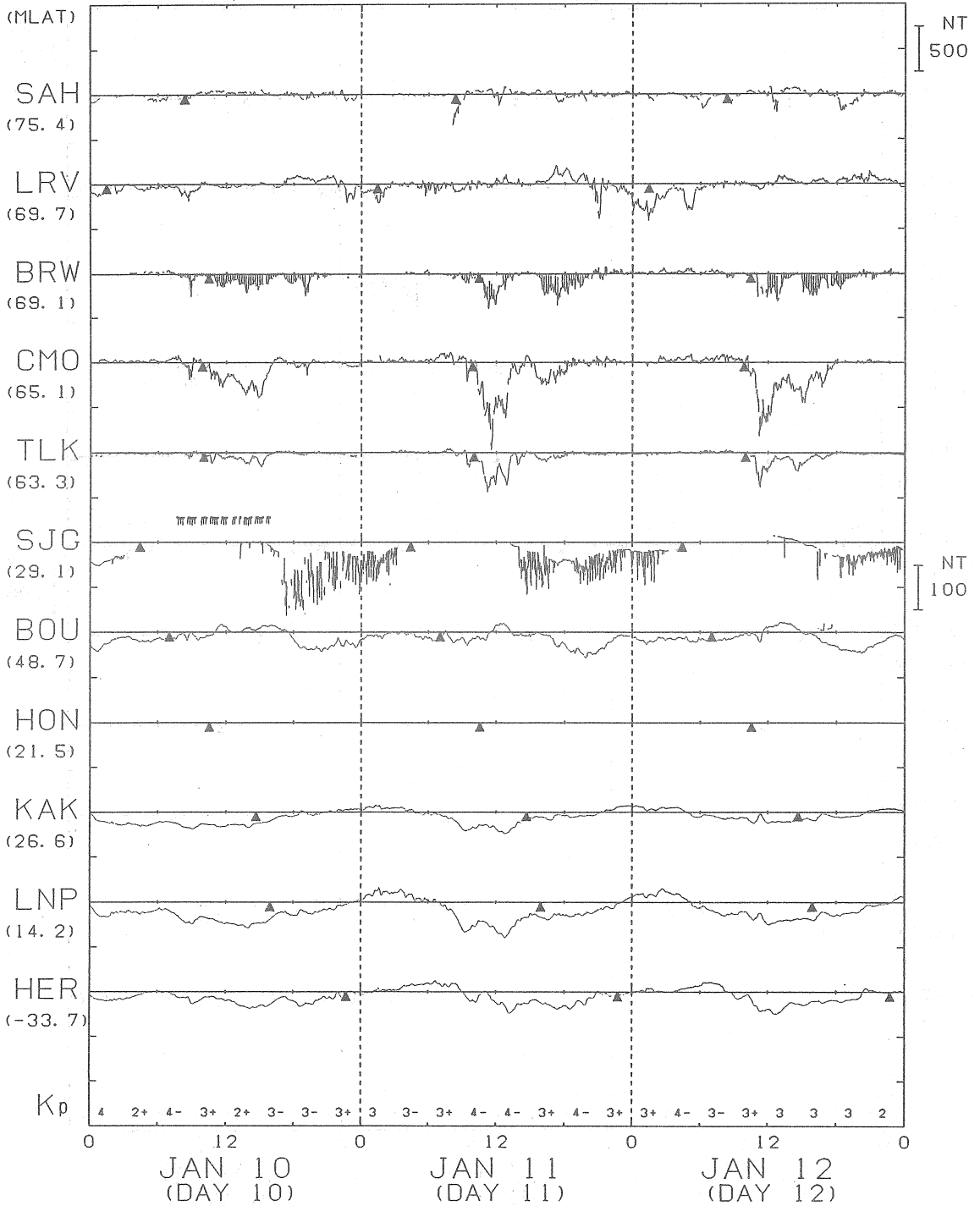
▲ : LOCAL MIDNIGHT



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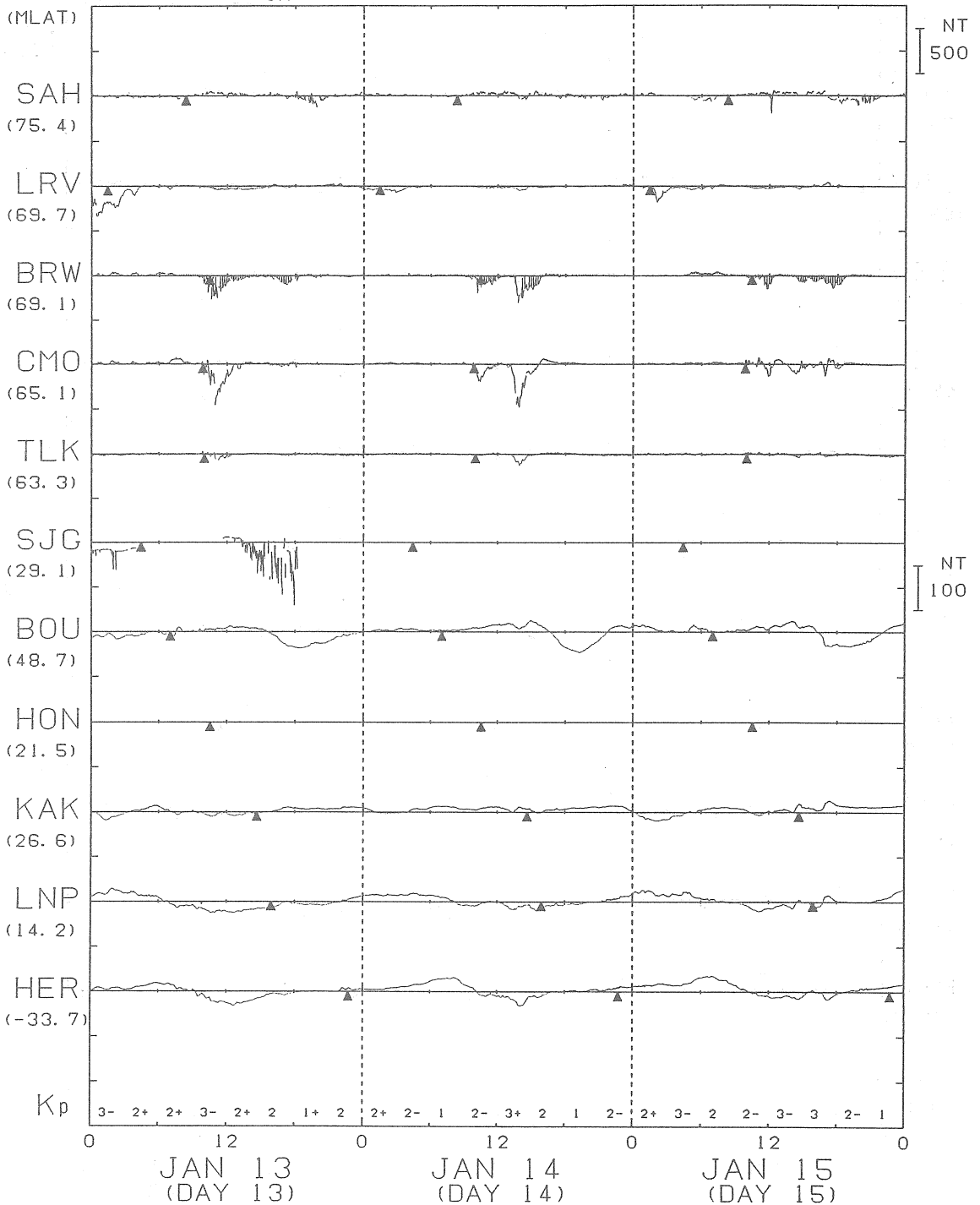
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# 1990 H OR X-COMPONENT

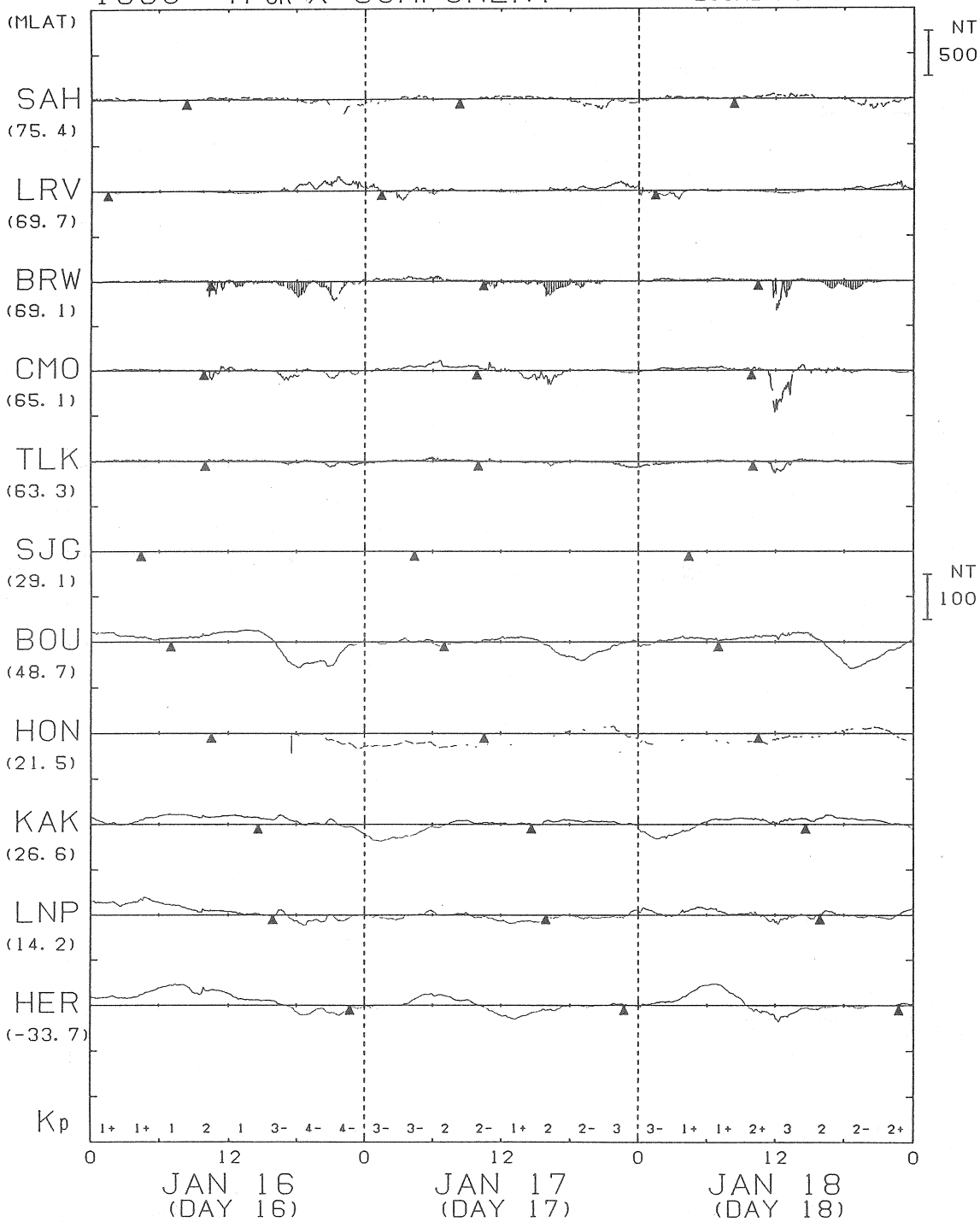
▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
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1990 H OR X-COMPONENT

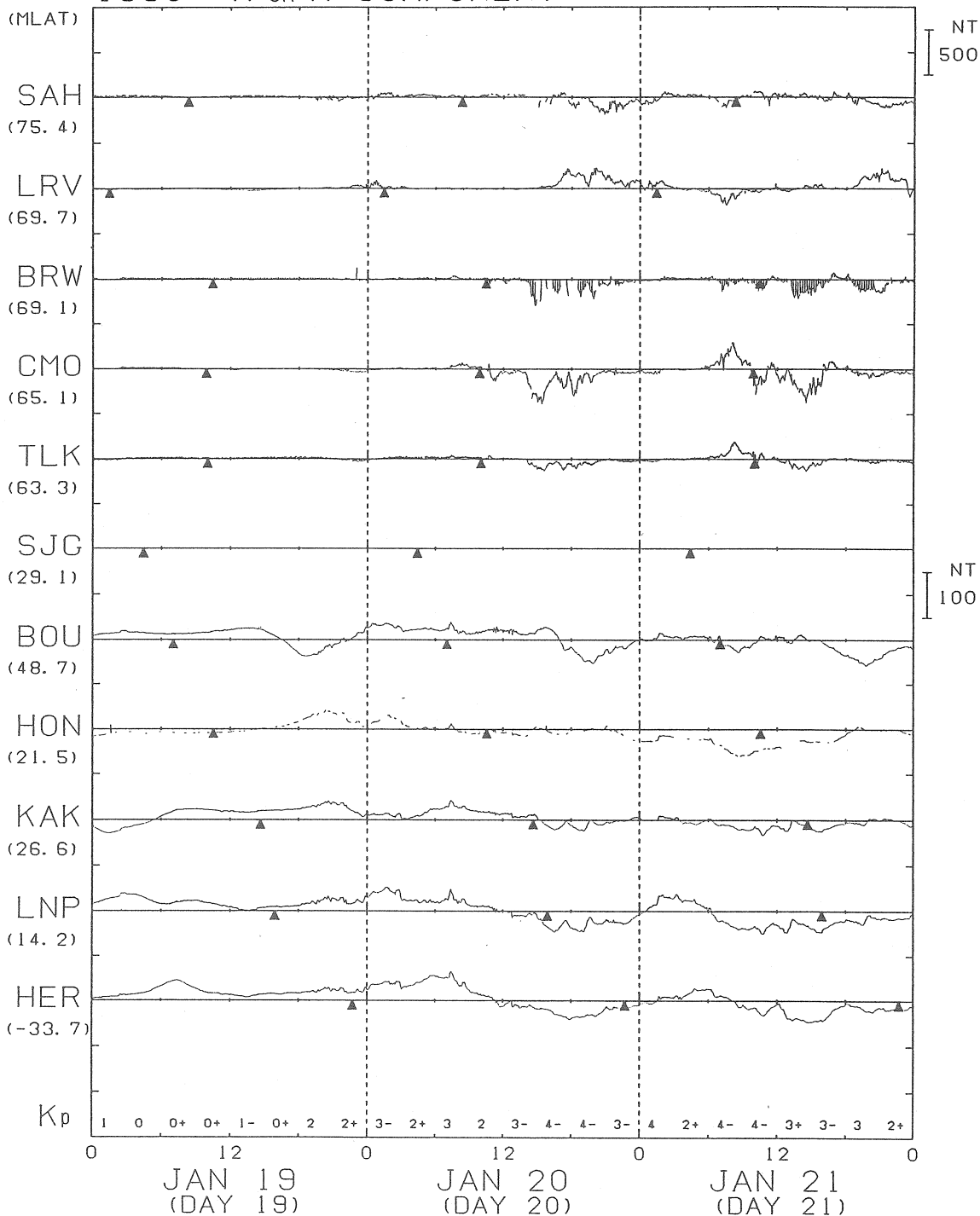
▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

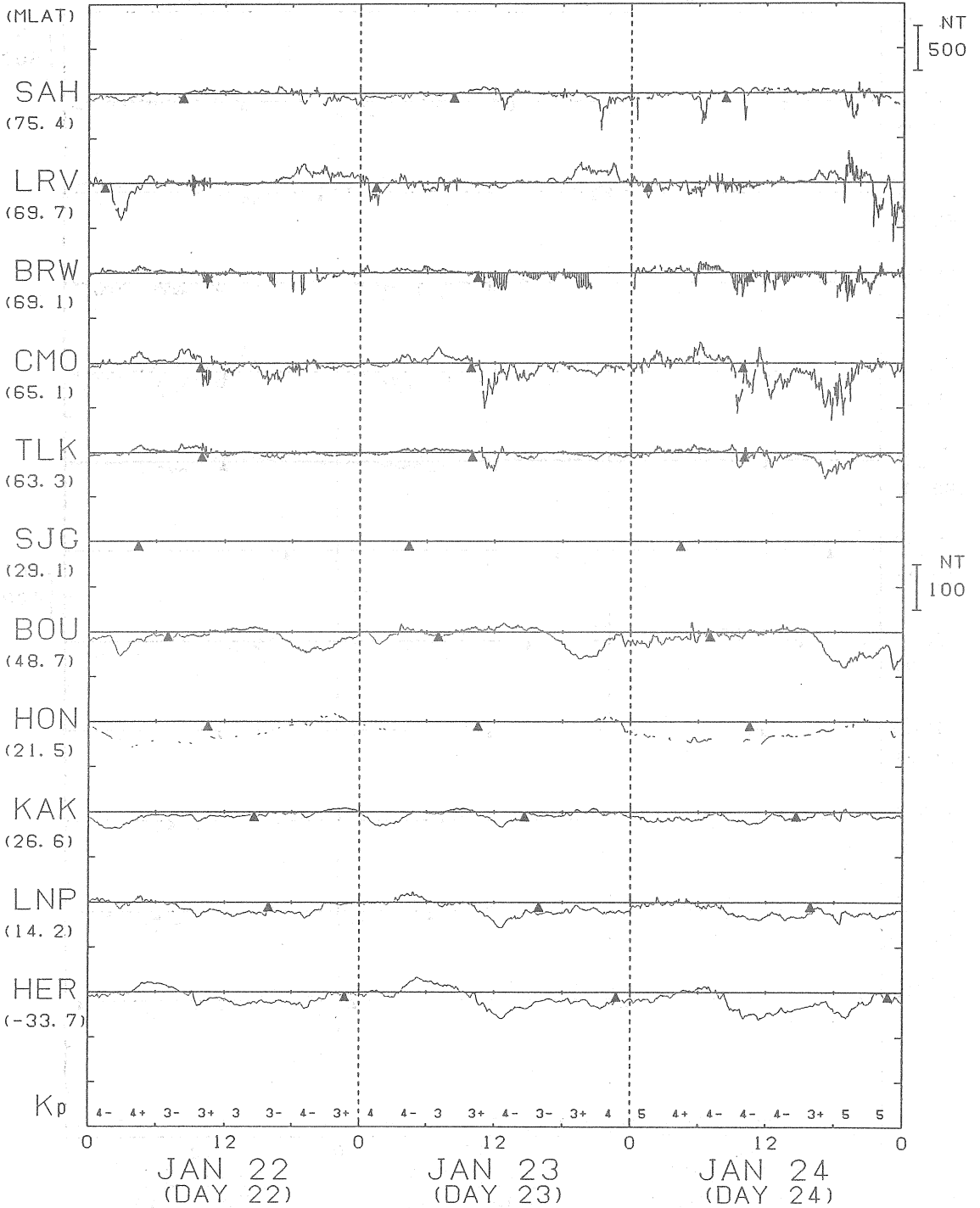
▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

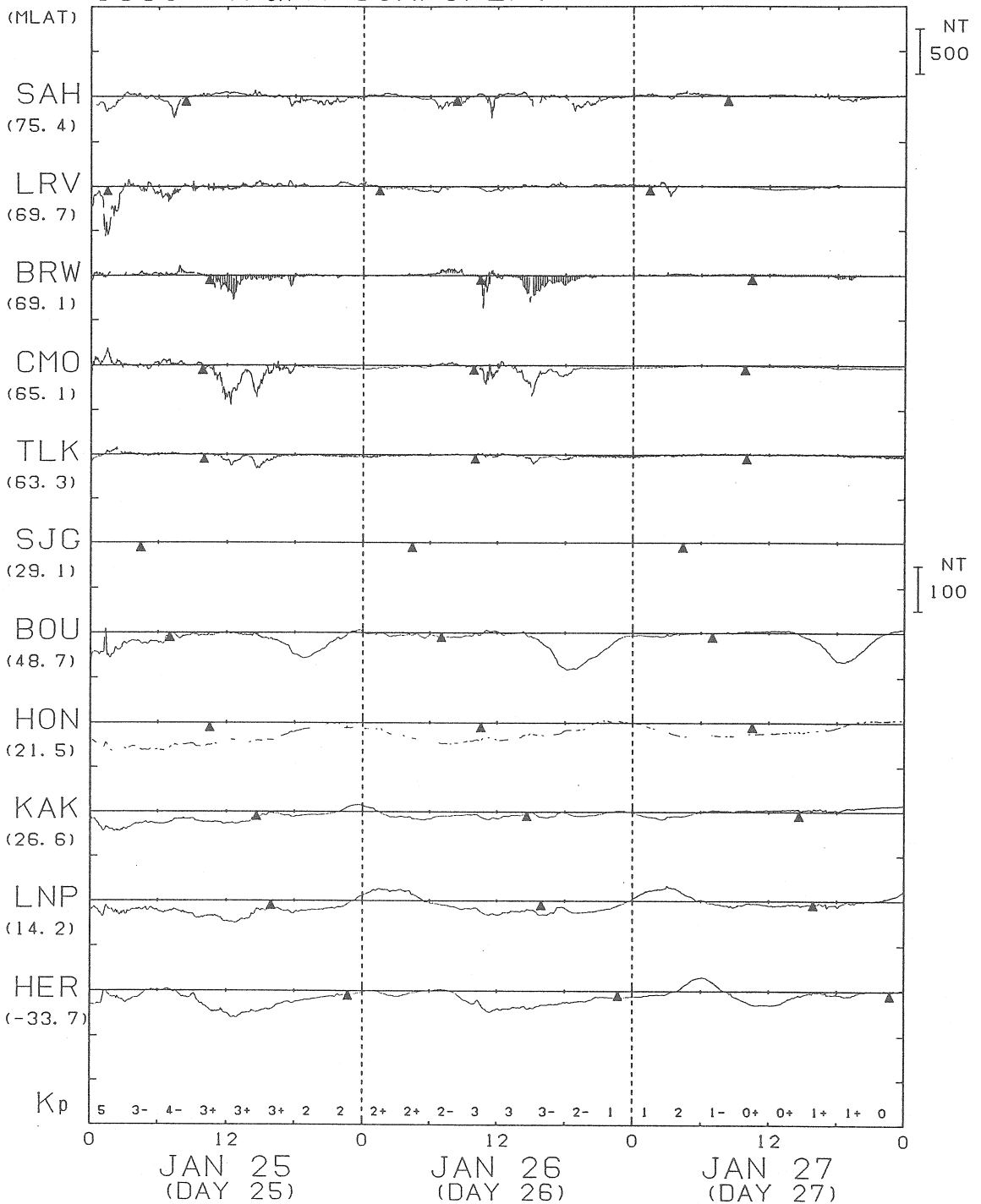


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
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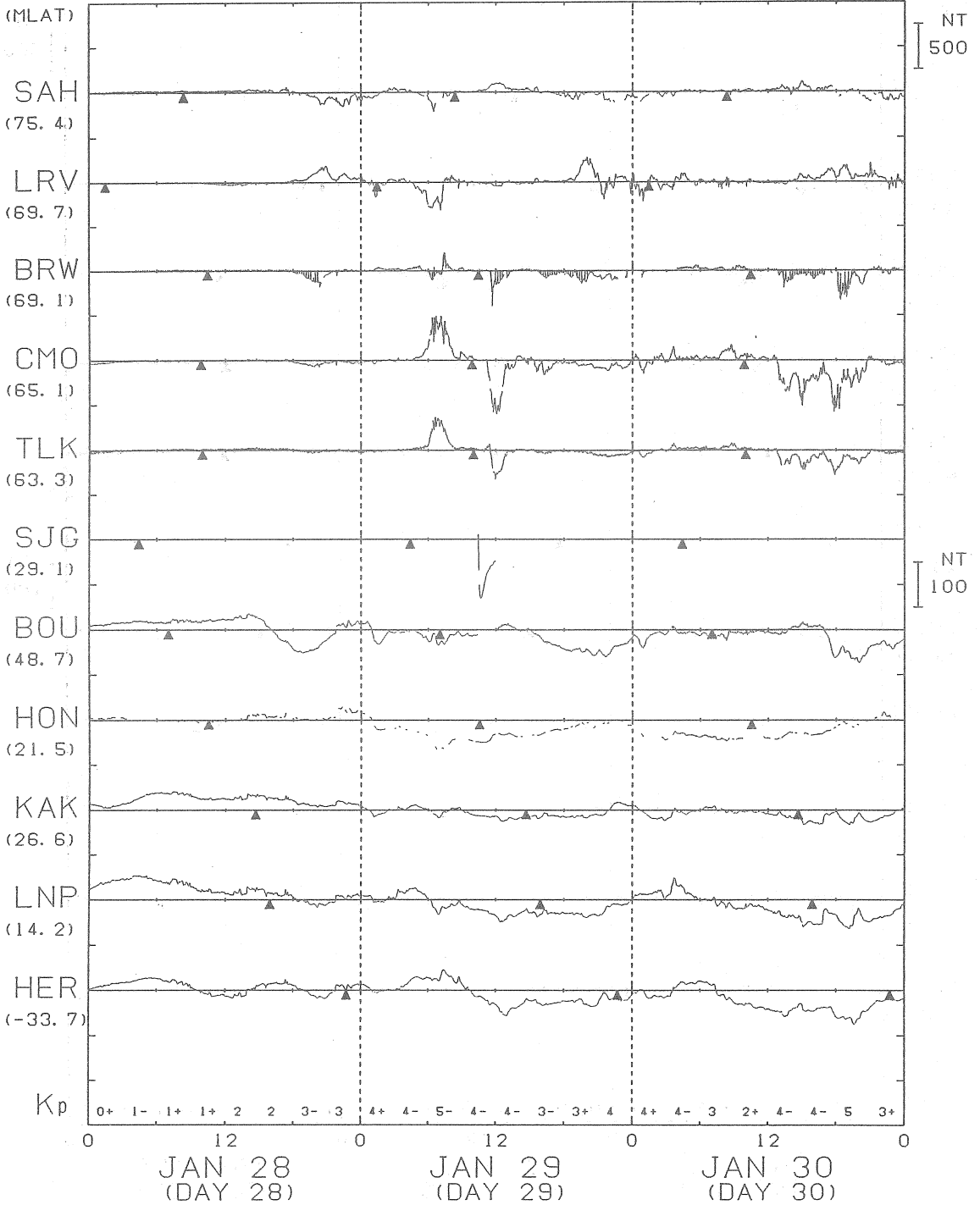
1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
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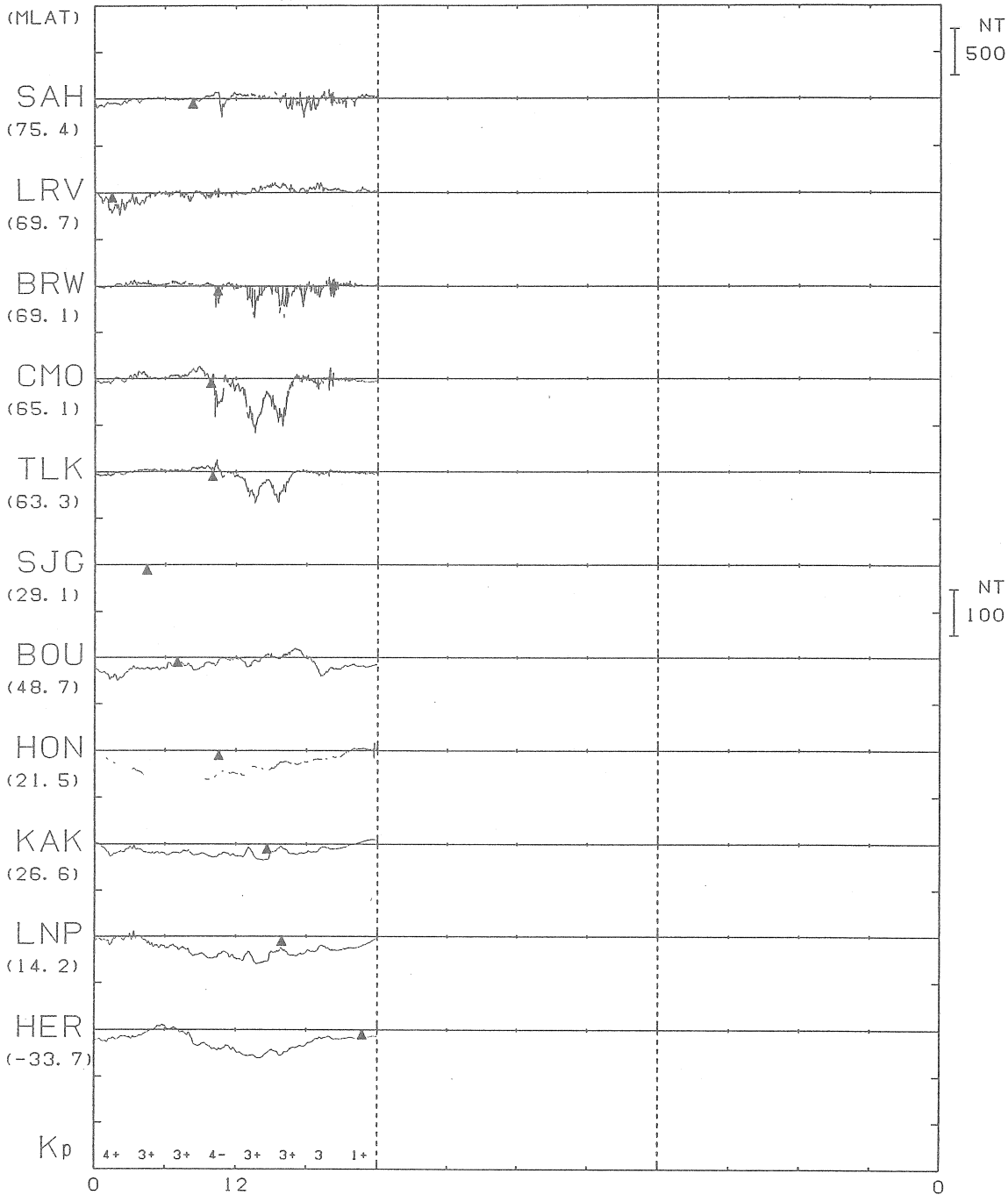
1990 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
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# 1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



JAN 31  
(DAY 31)

- \* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
- \* PROMPT DATA ARE INCLUDED
- \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH



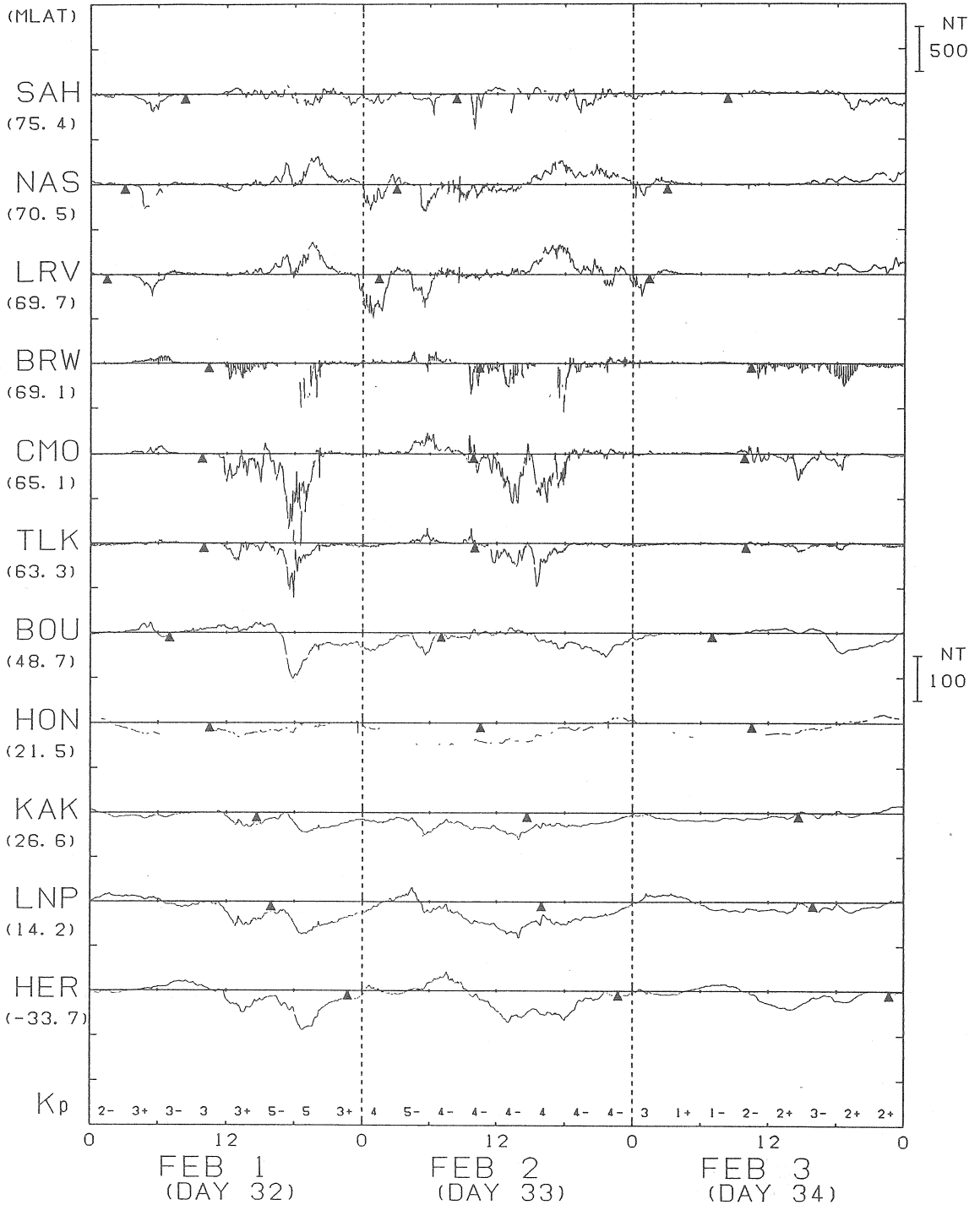
FEBRUARY 1990

(DAY 032 - 059)



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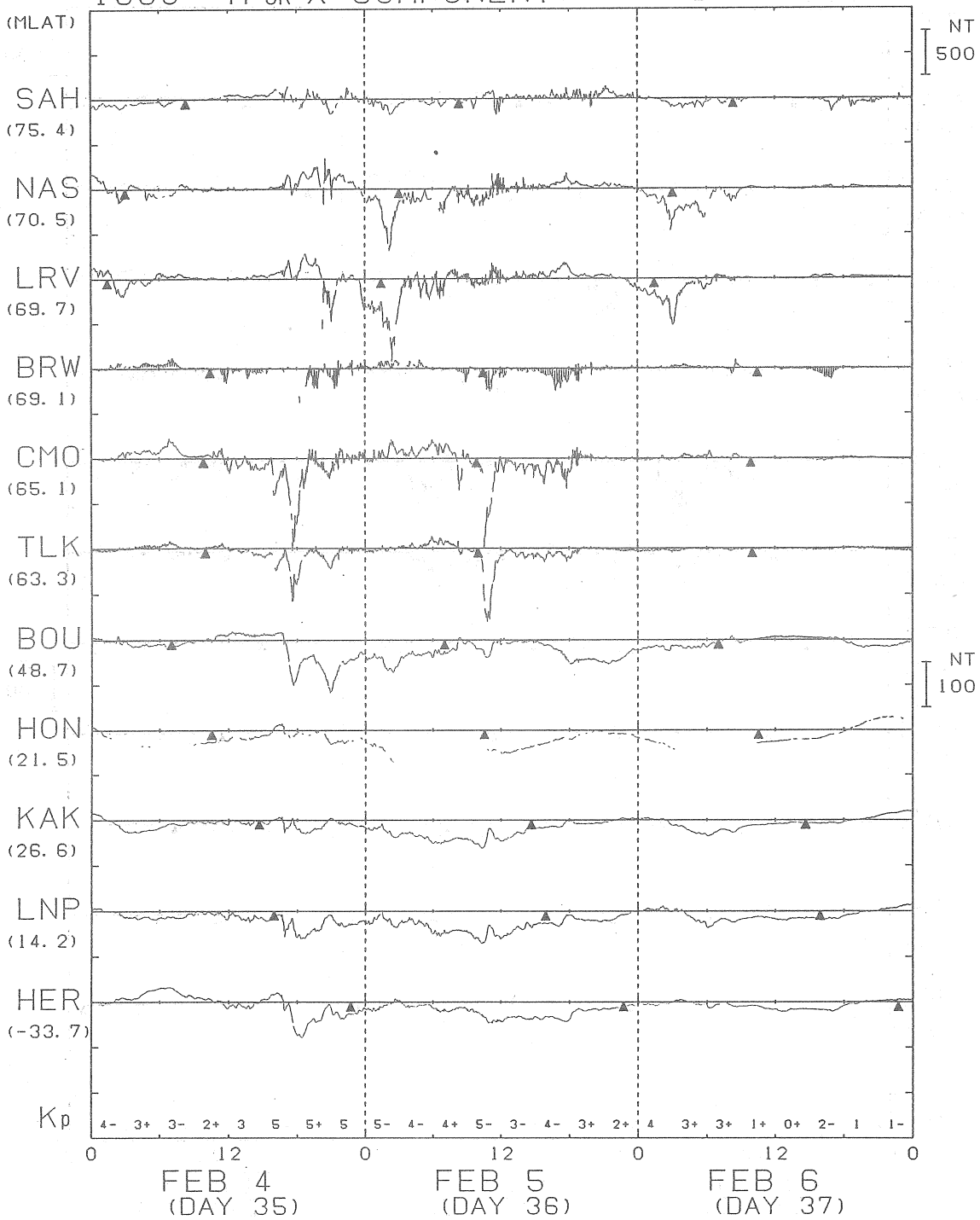
▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH



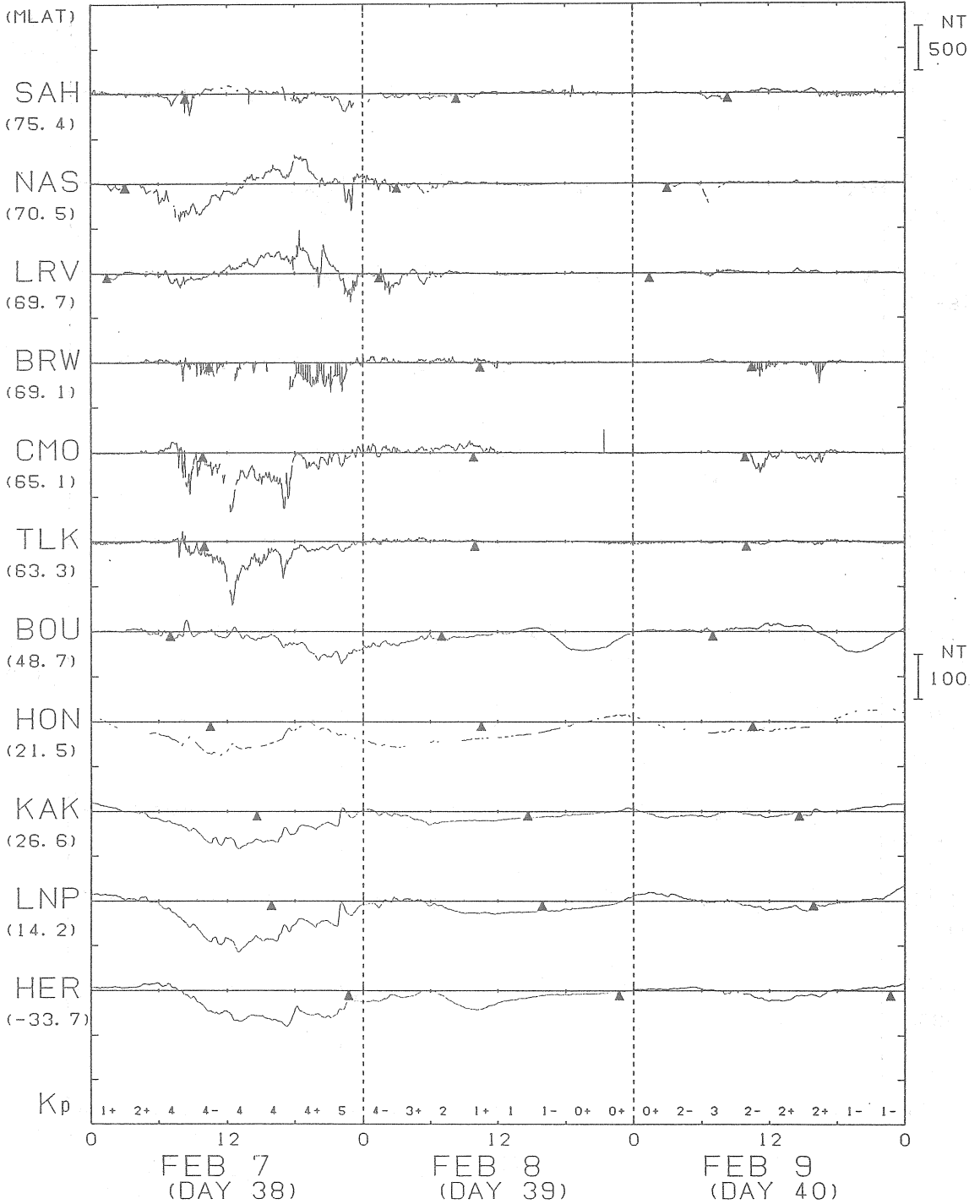
1990 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

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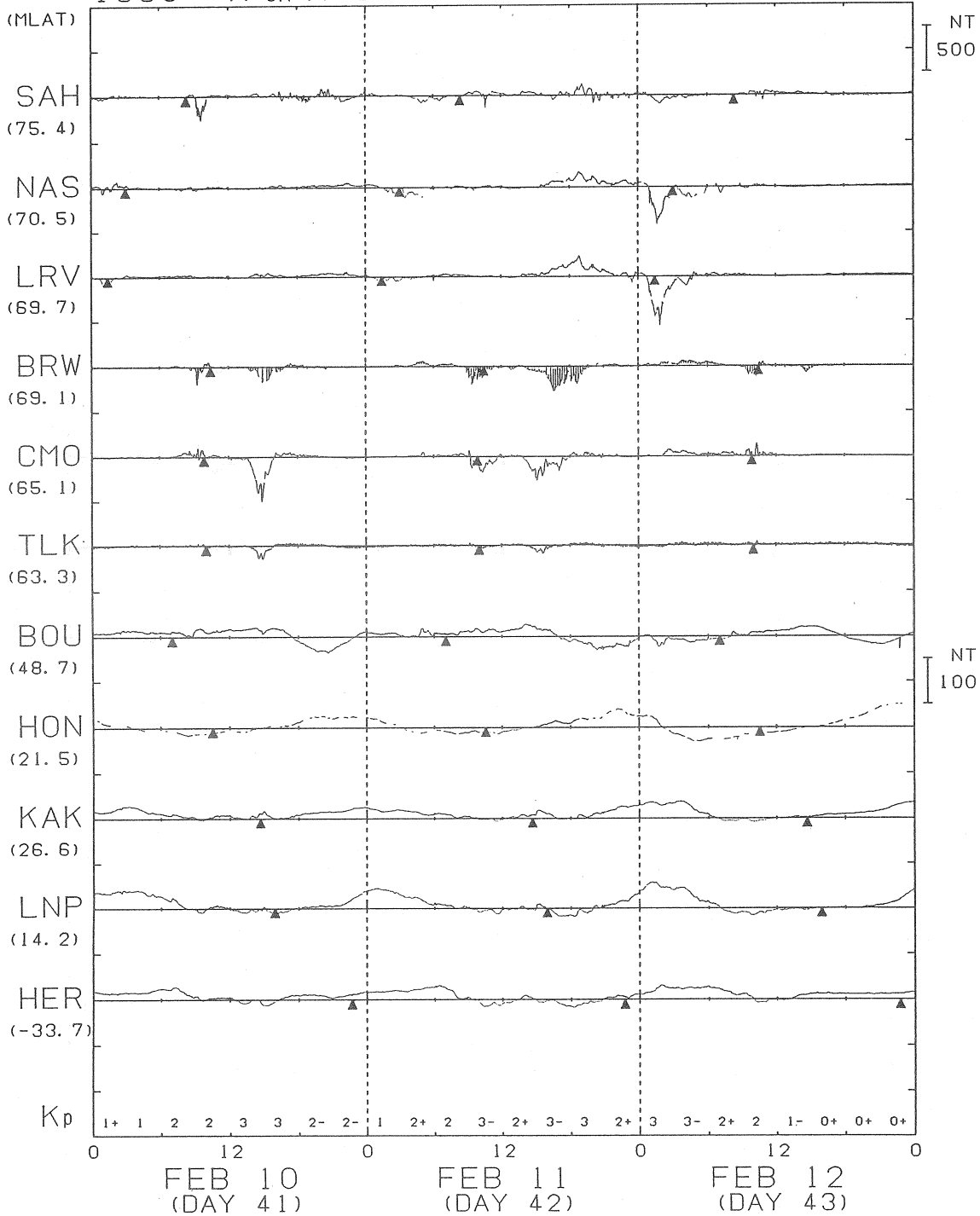
▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

1990 H OR X-COMPONENT

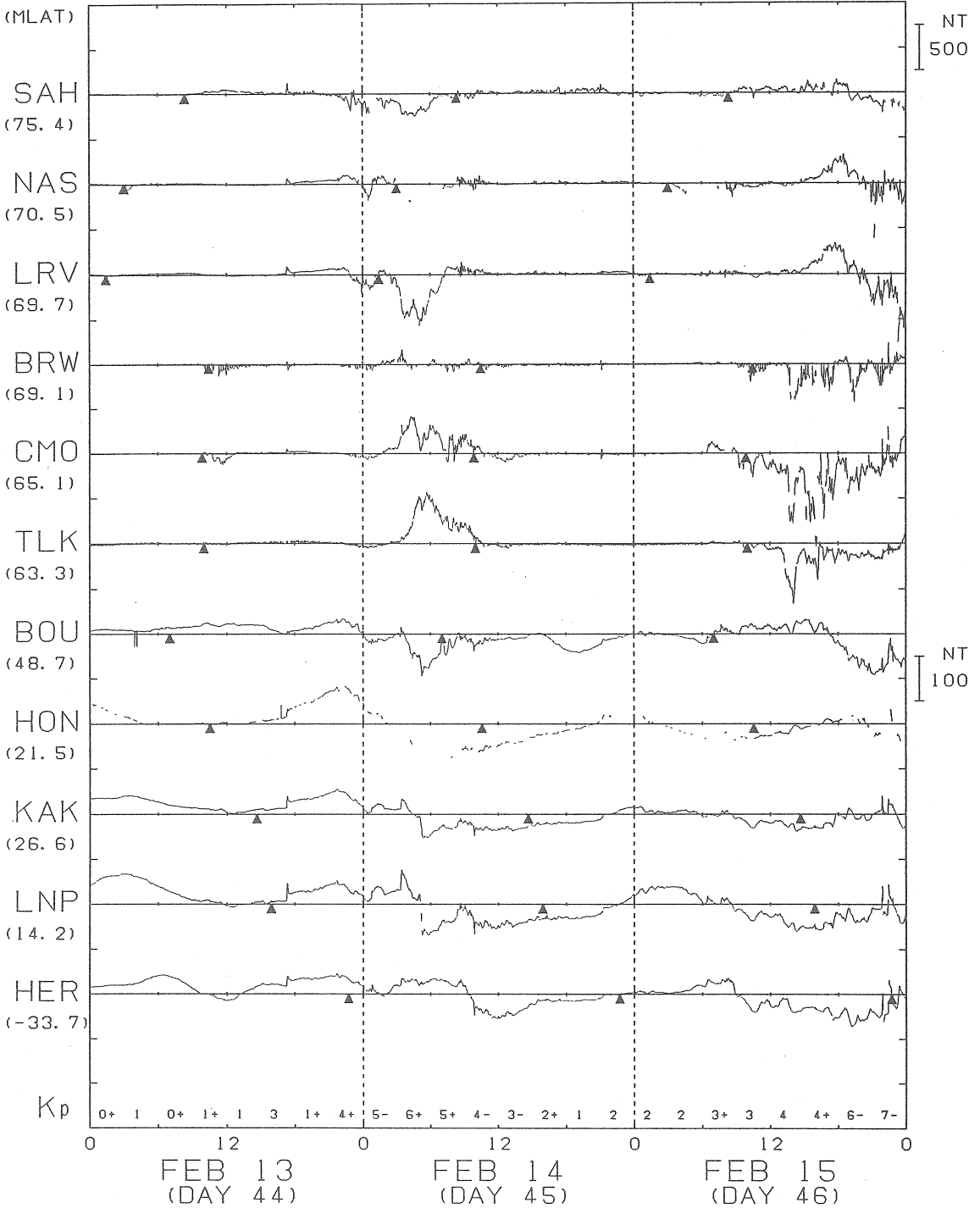
▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
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# 1990 H OR X-COMPONENT

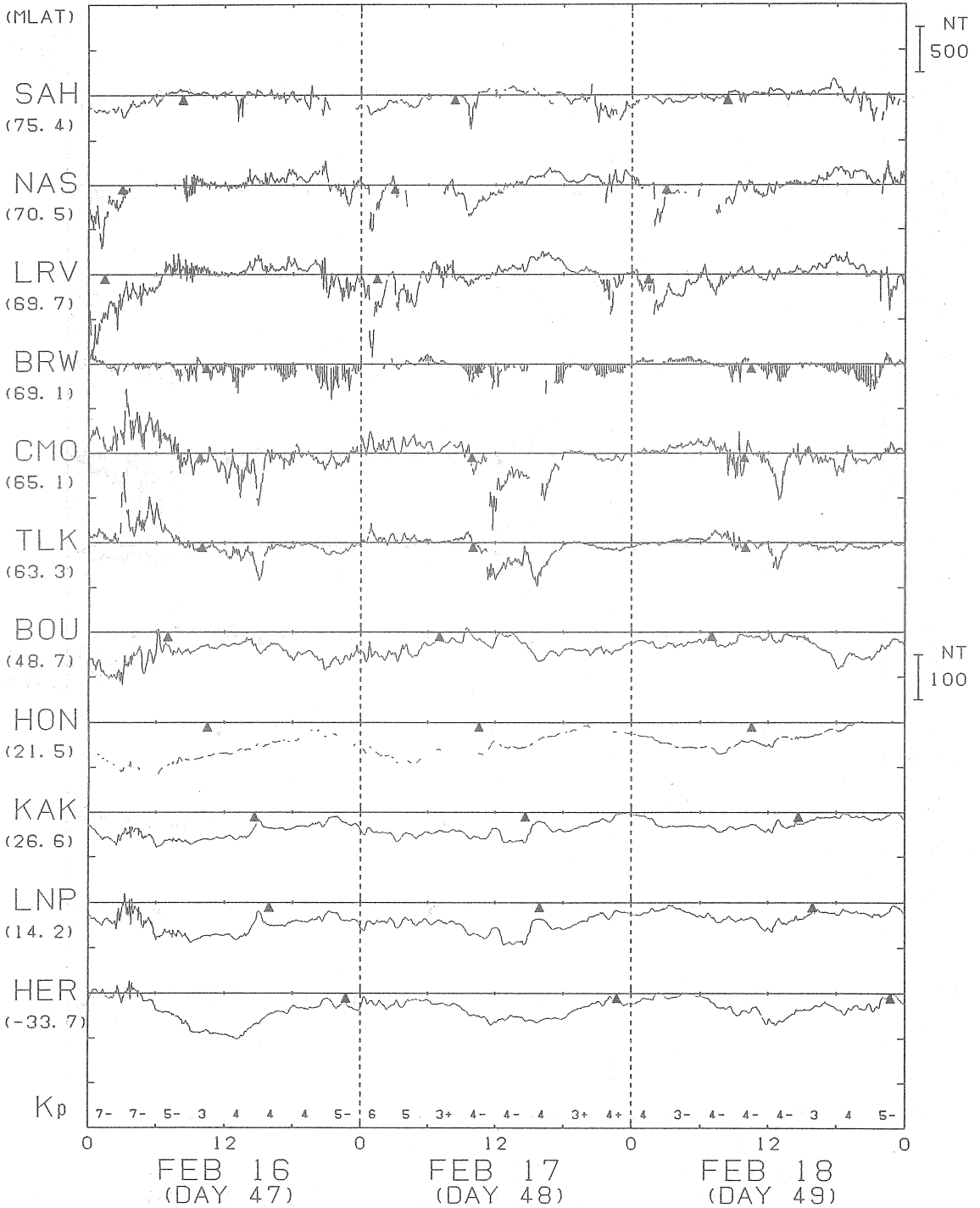
▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

1990 H OR X-COMPONENT

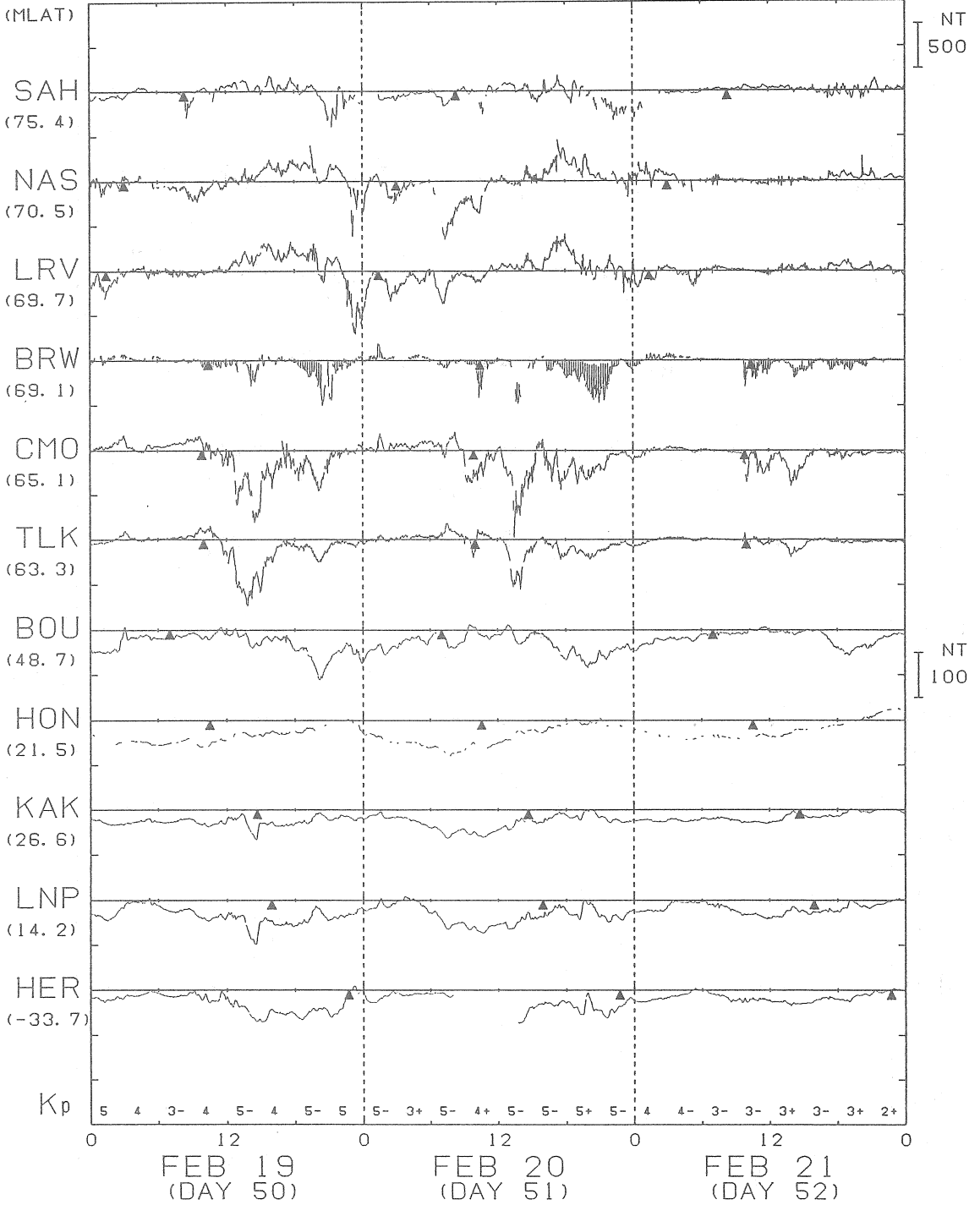
▲ : LOCAL MIDNIGHT



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 \* PROMPT DATA ARE INCLUDED  
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# 1990 H OR X-COMPONENT

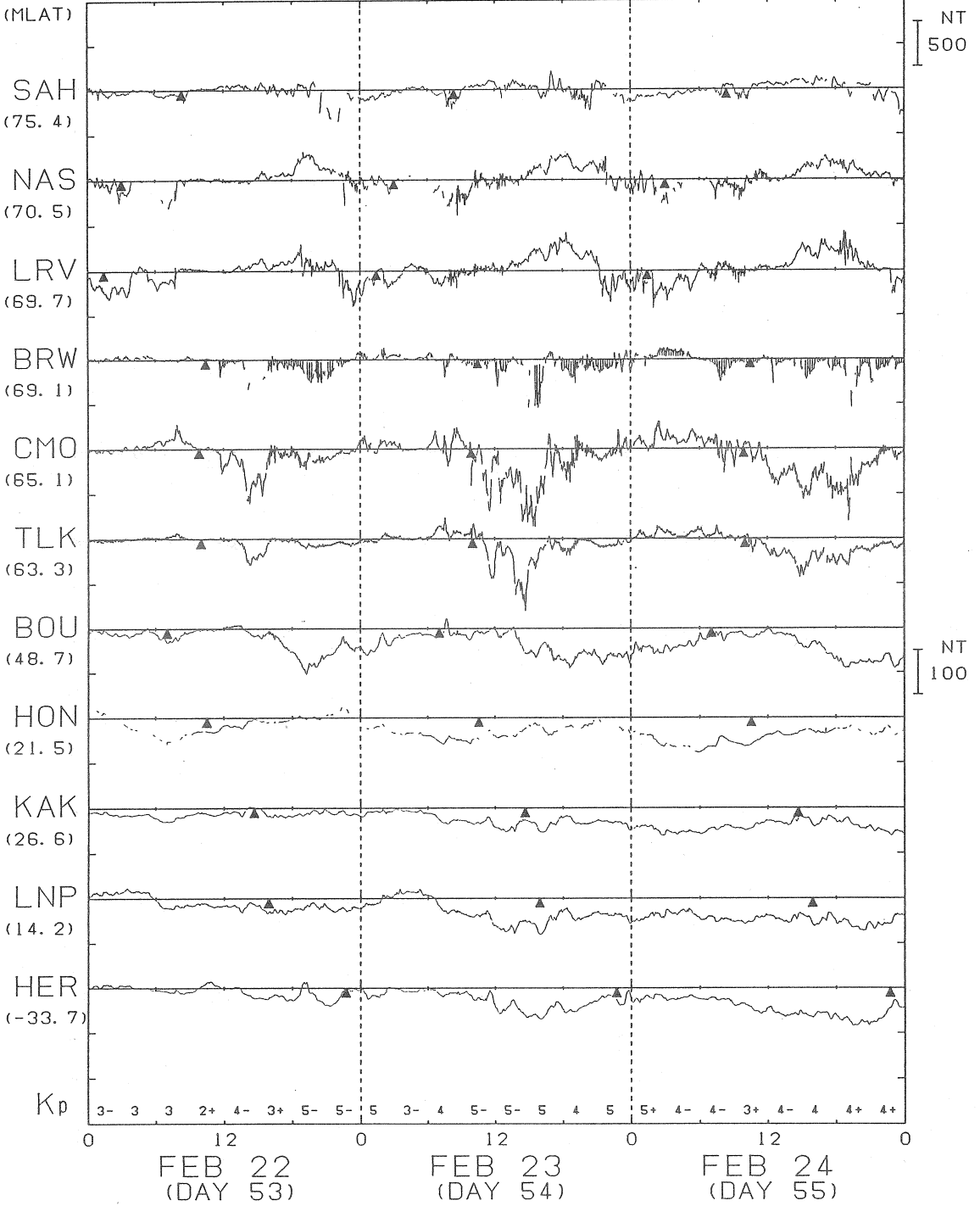
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1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

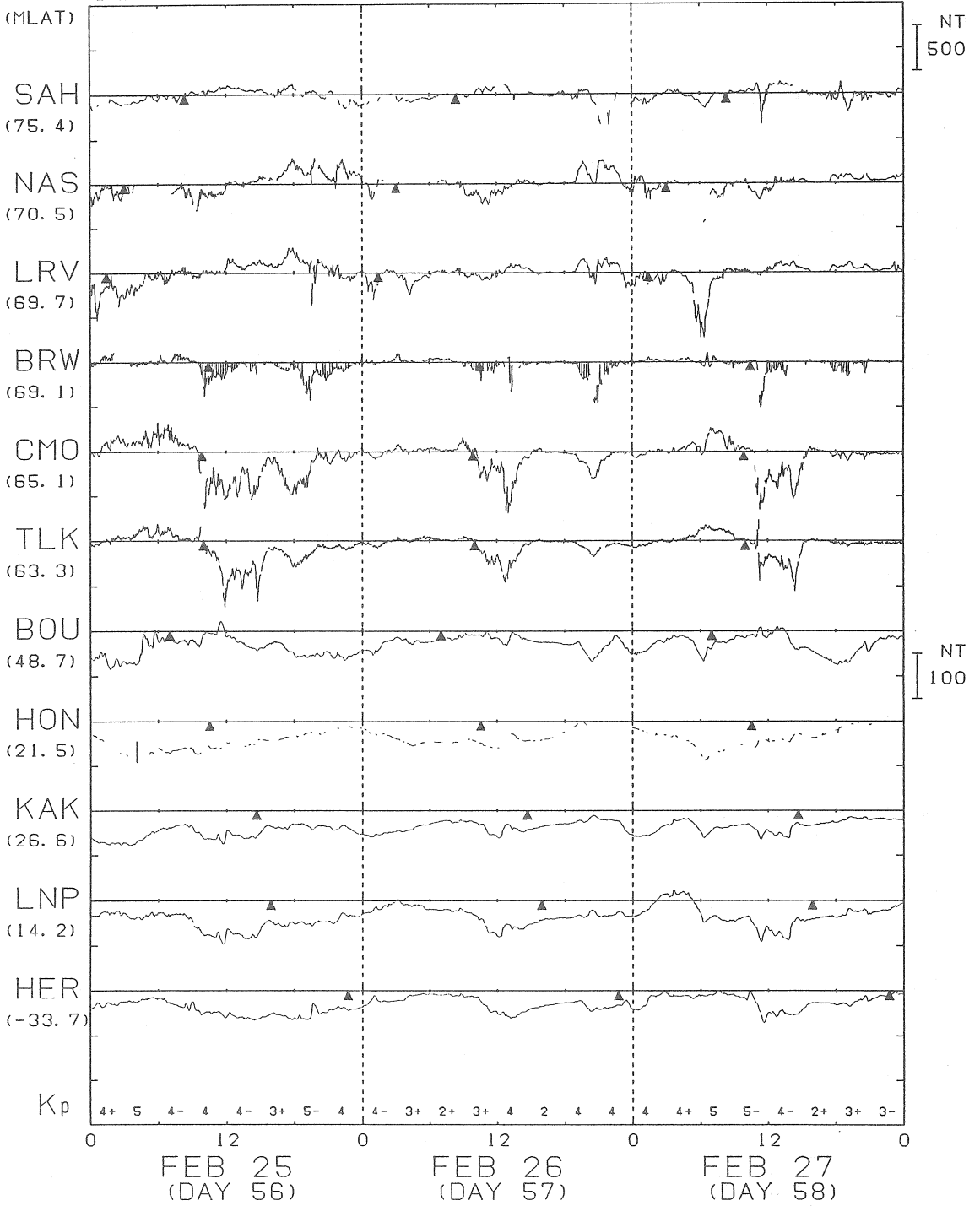


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1990 H OR X-COMPONENT

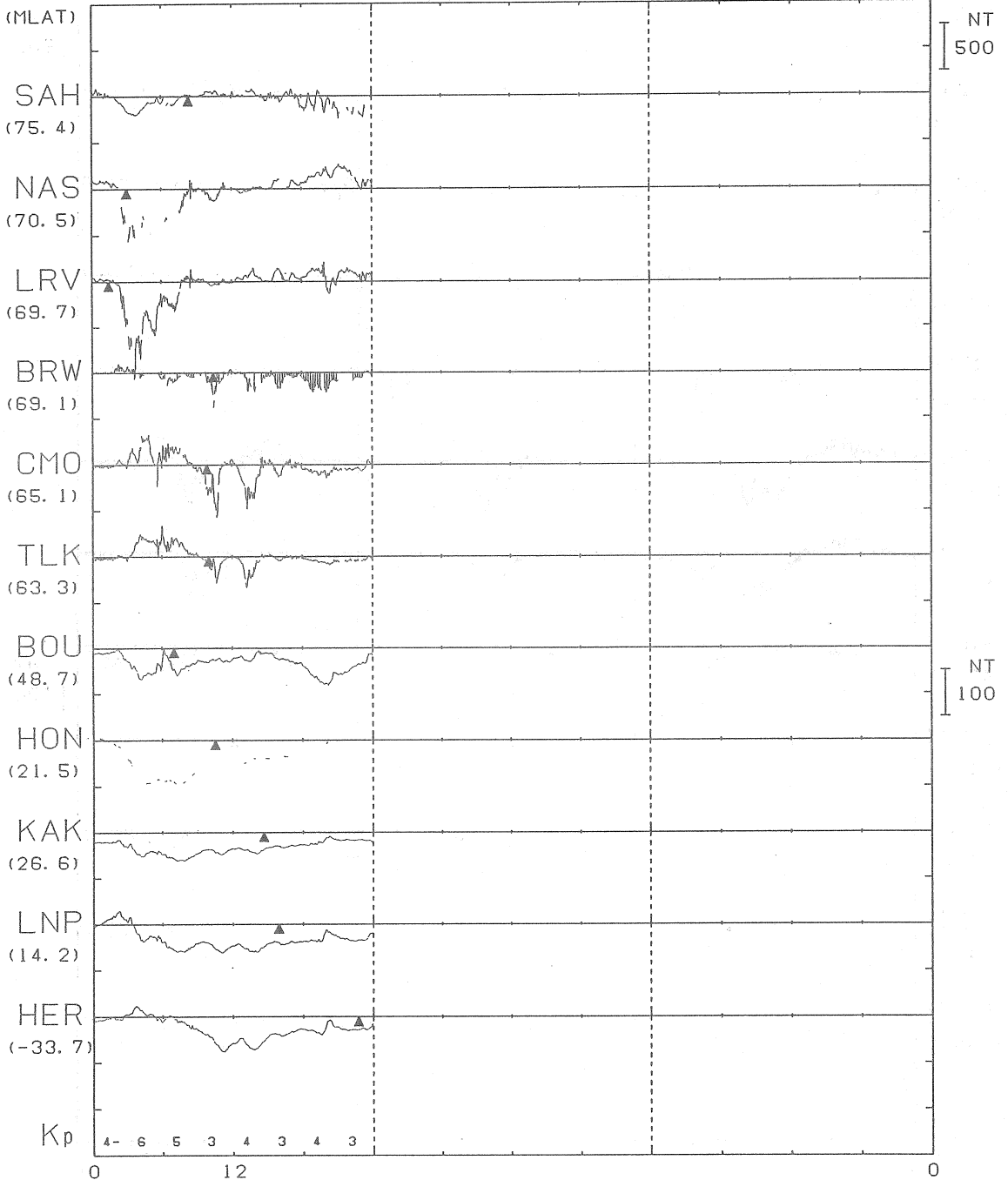
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



FEB 28  
(DAY 59)

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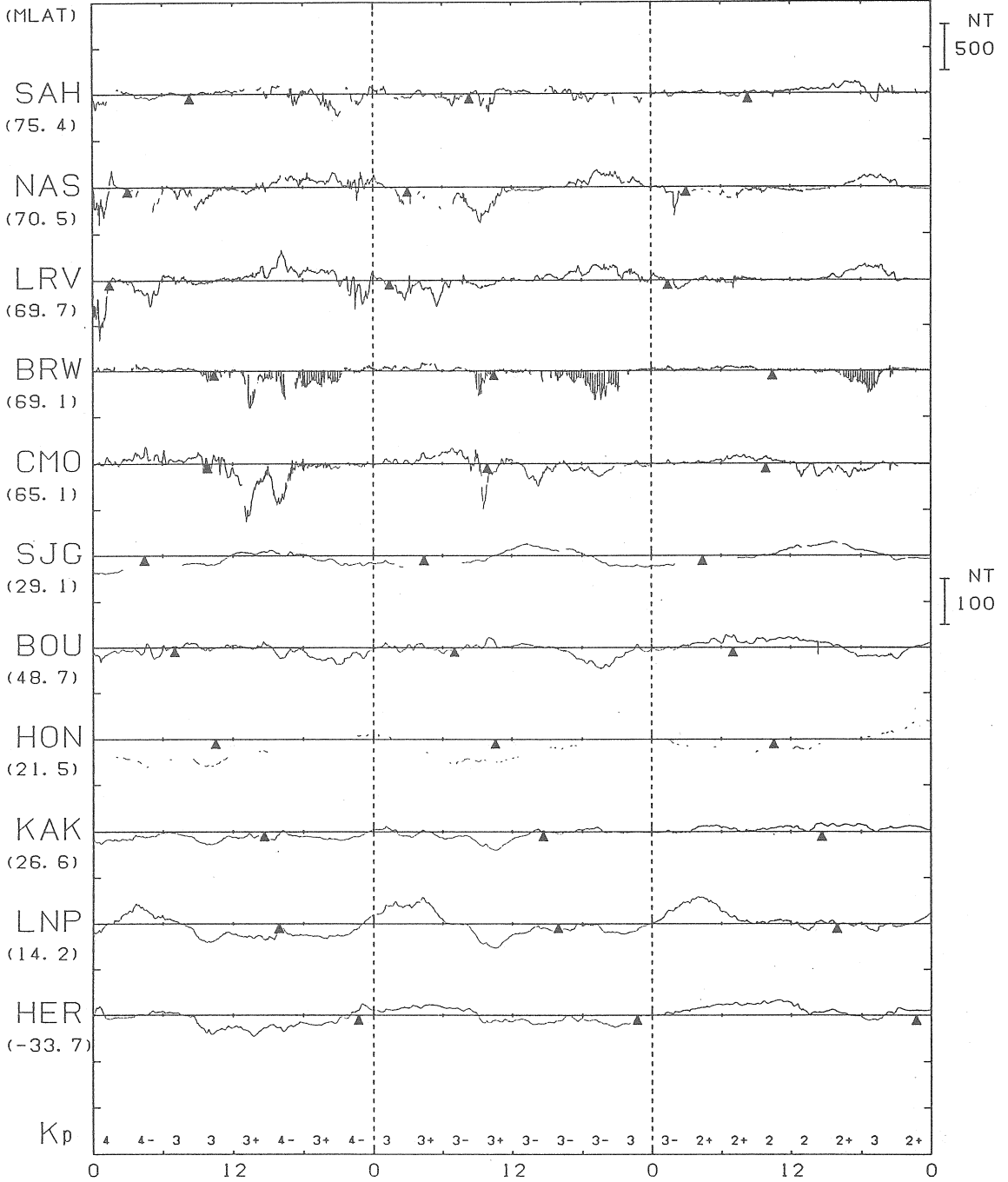
MARCH 1990

(DAY 060 - 090)



1990 H<sub>0R</sub> X-COMPONENT

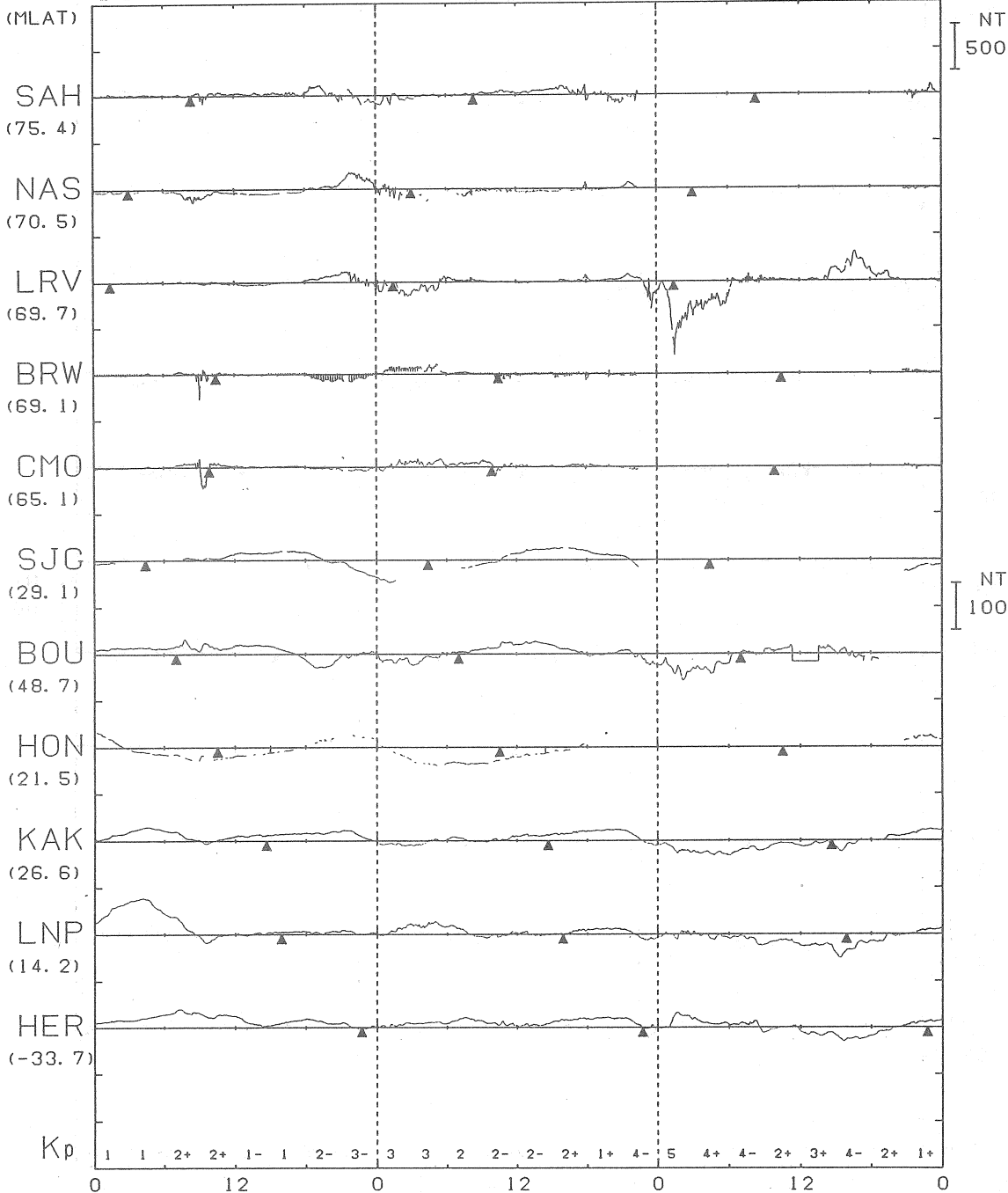
▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

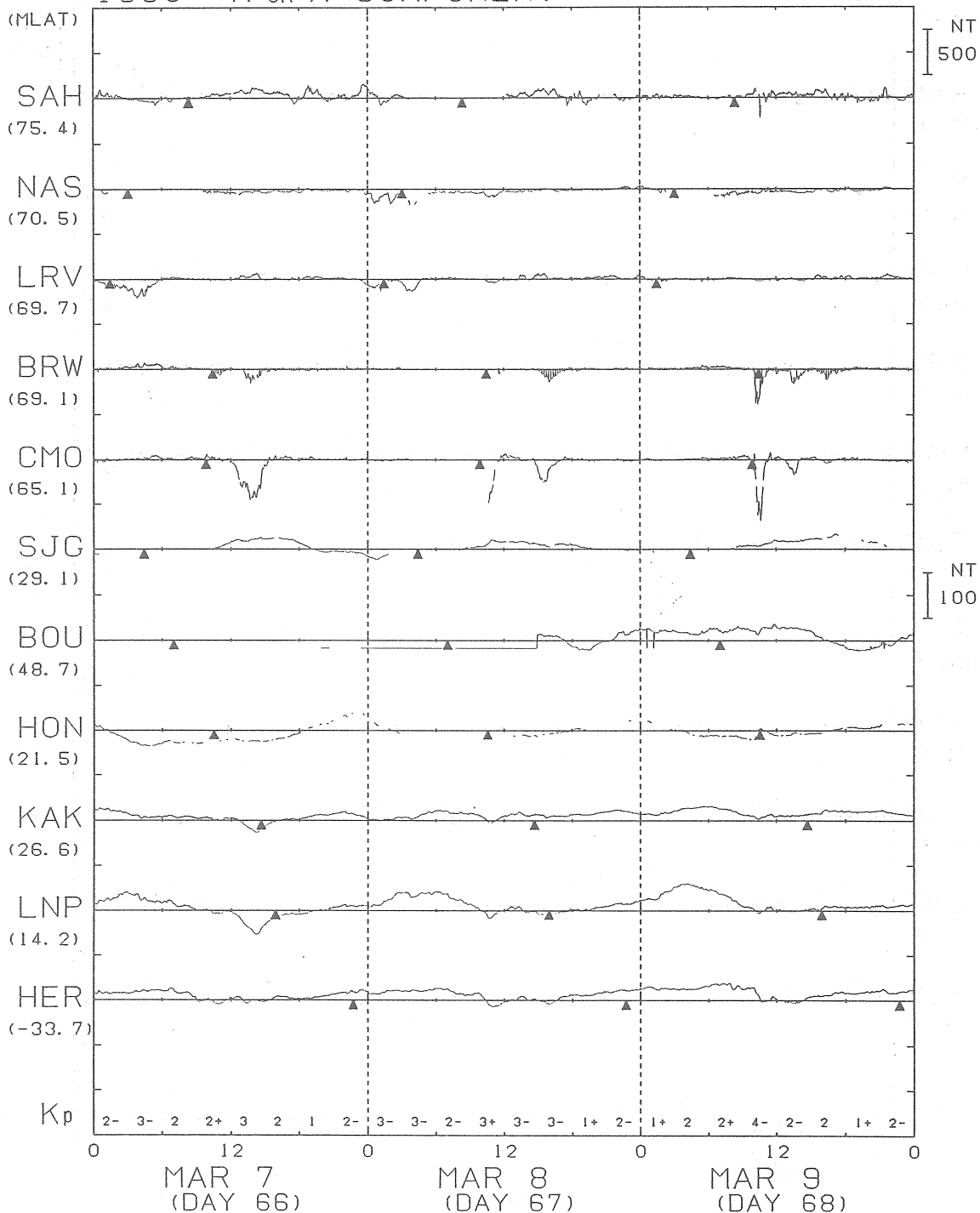
▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

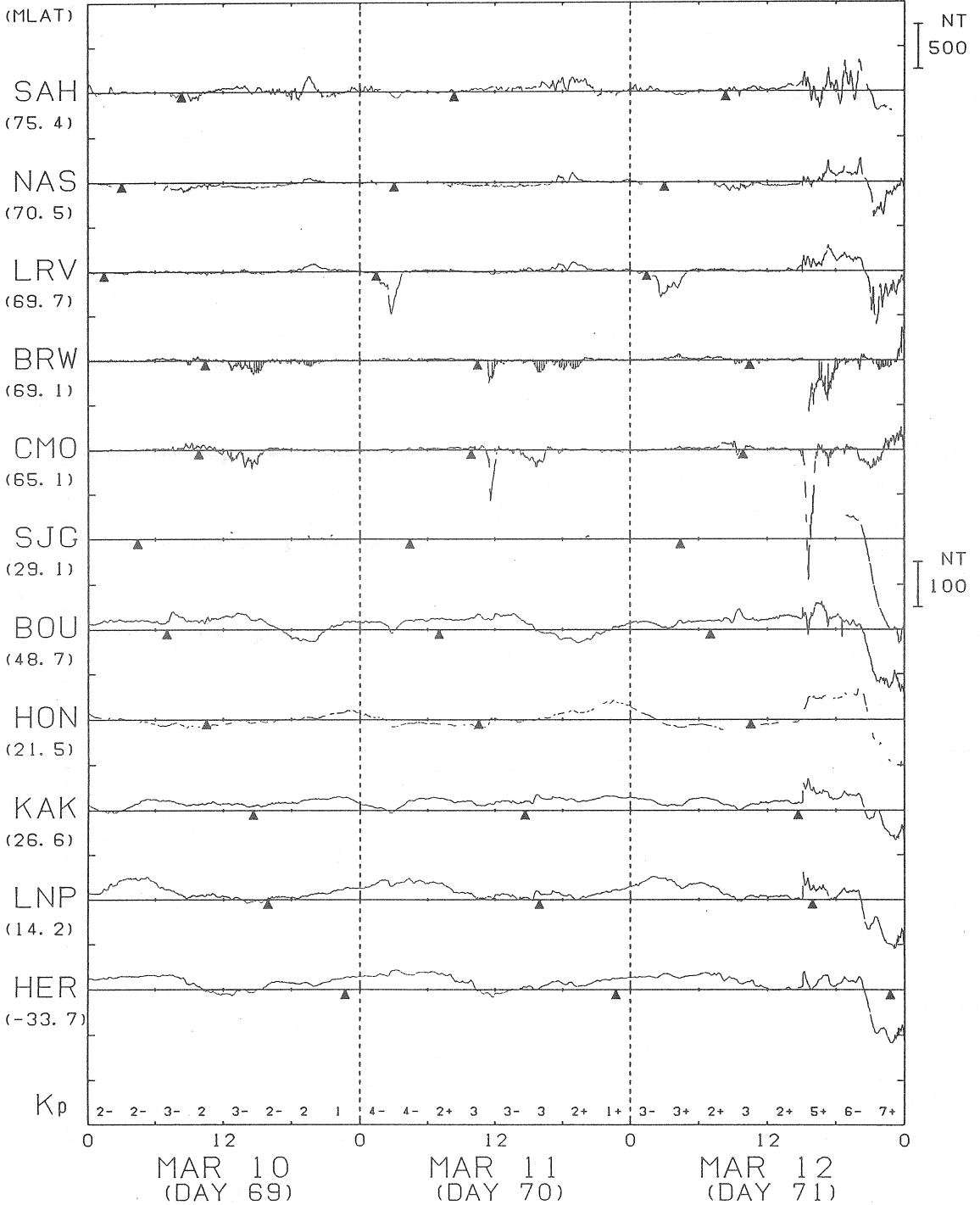
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

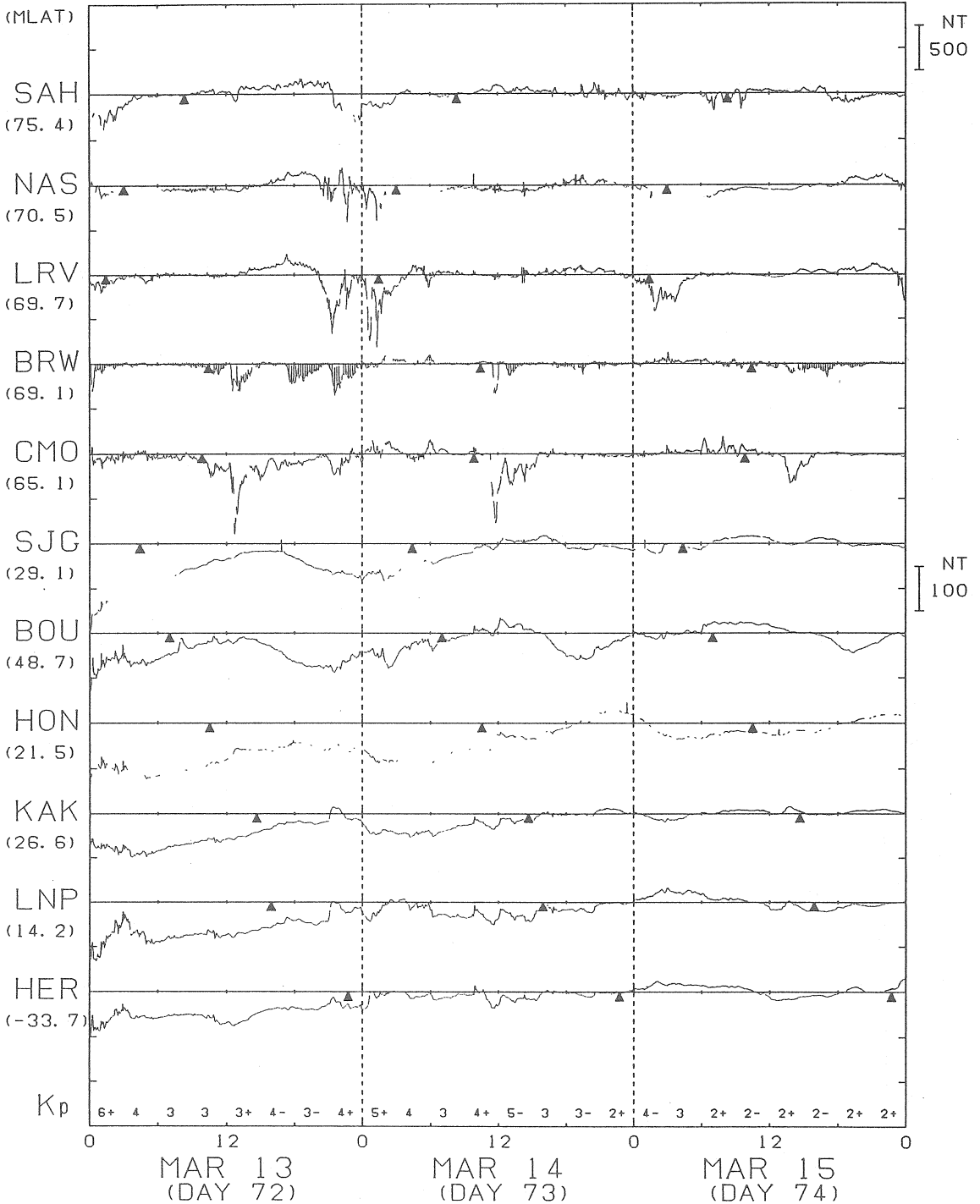


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# 1990 H OR X-COMPONENT

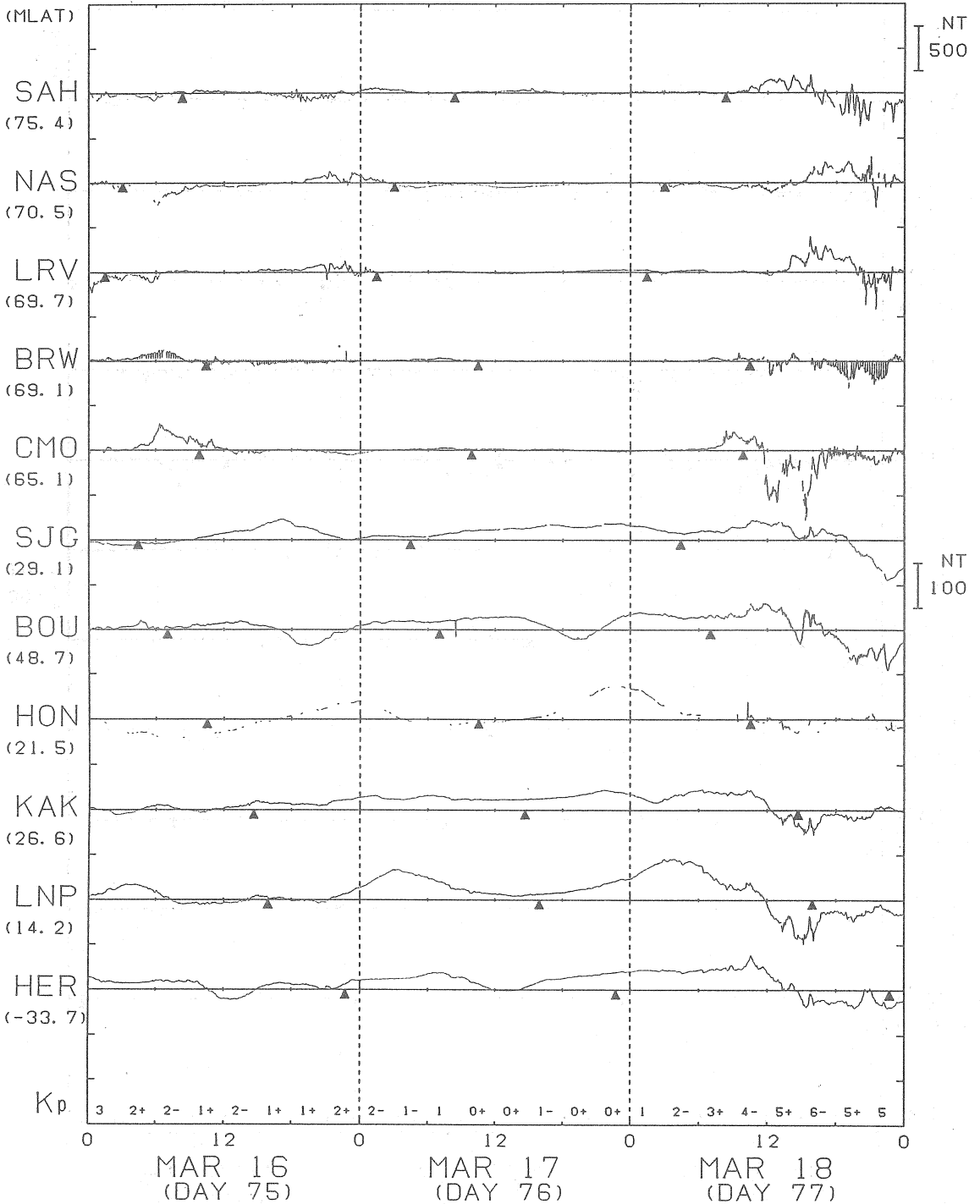
▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

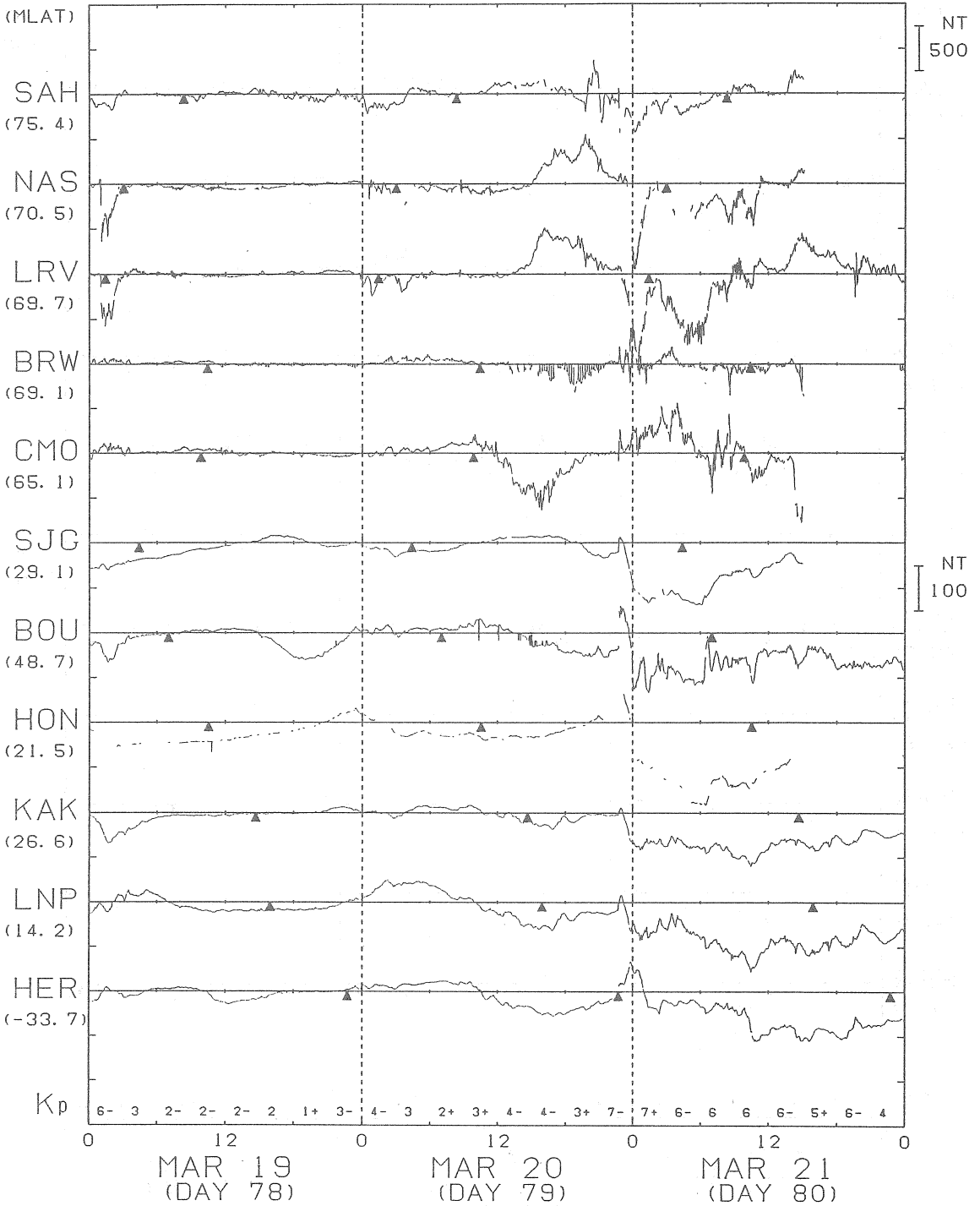
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

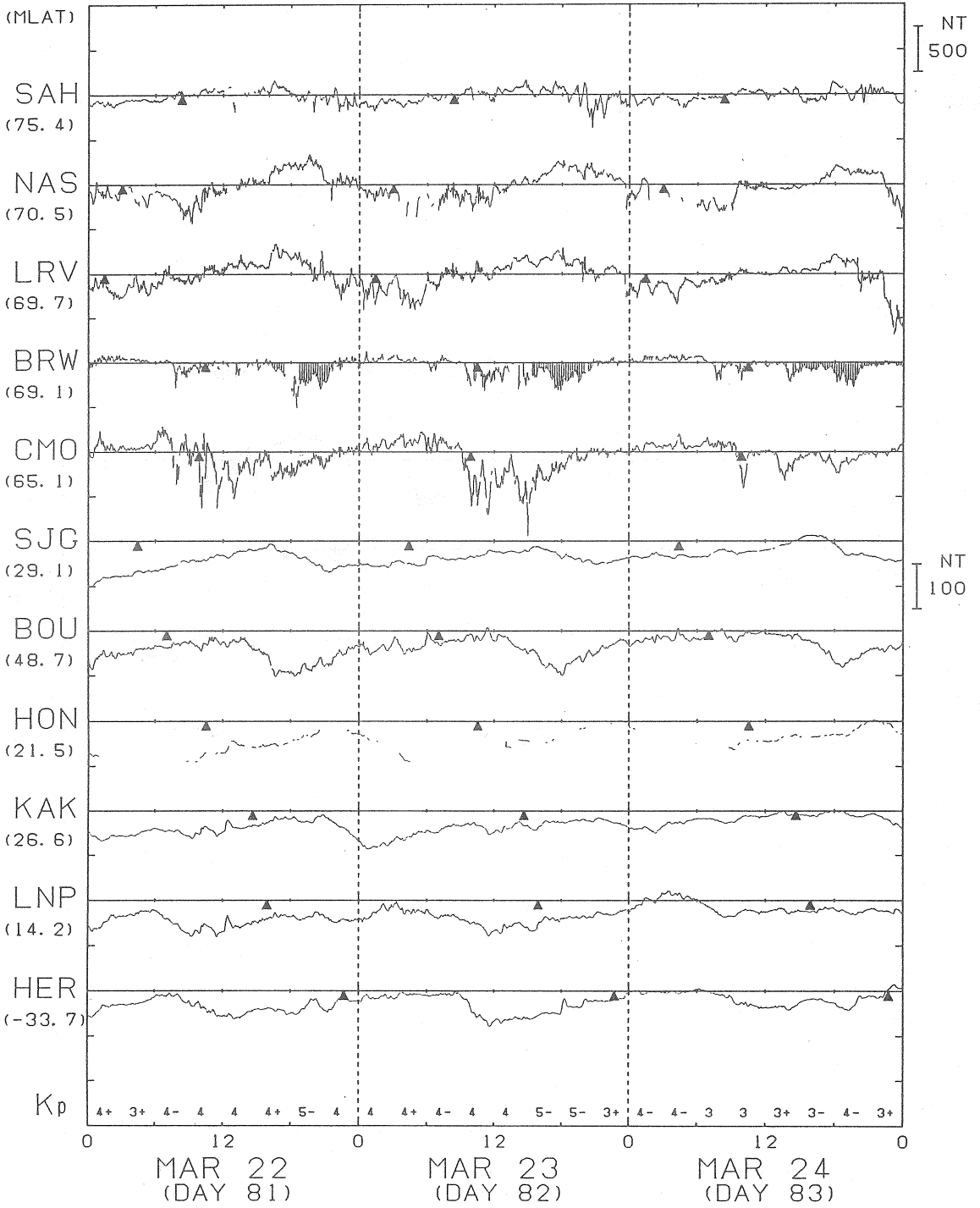
▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

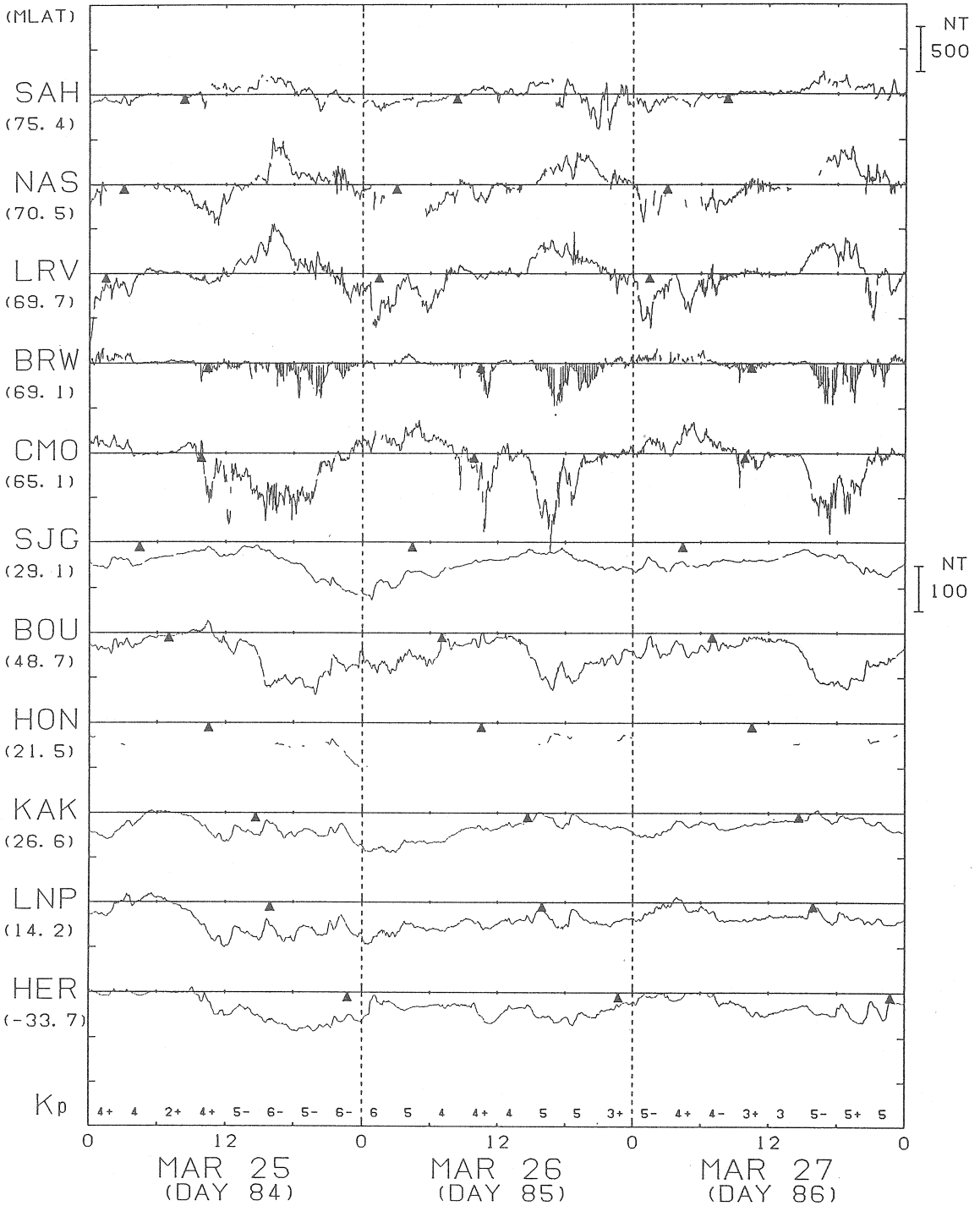
▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

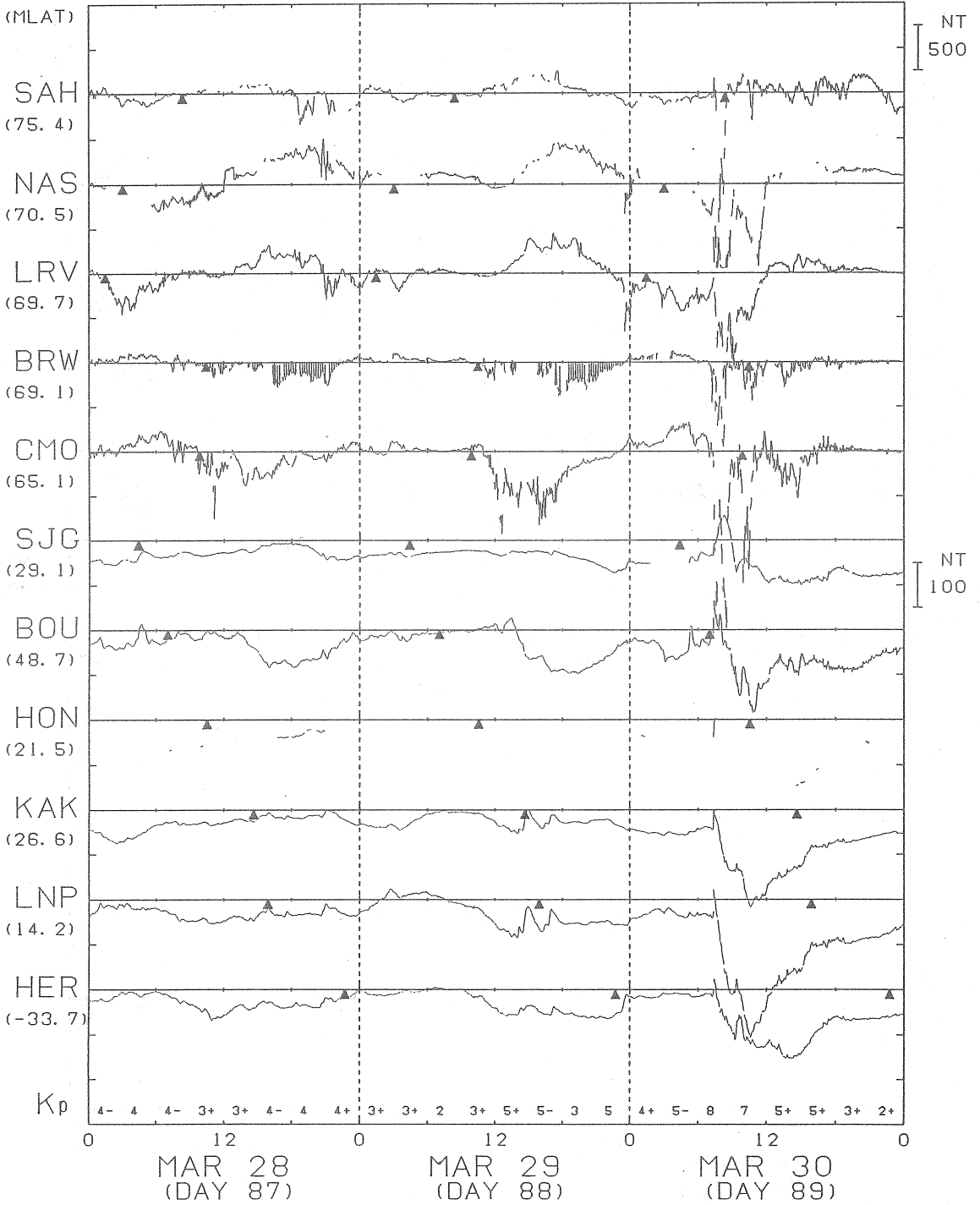
▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

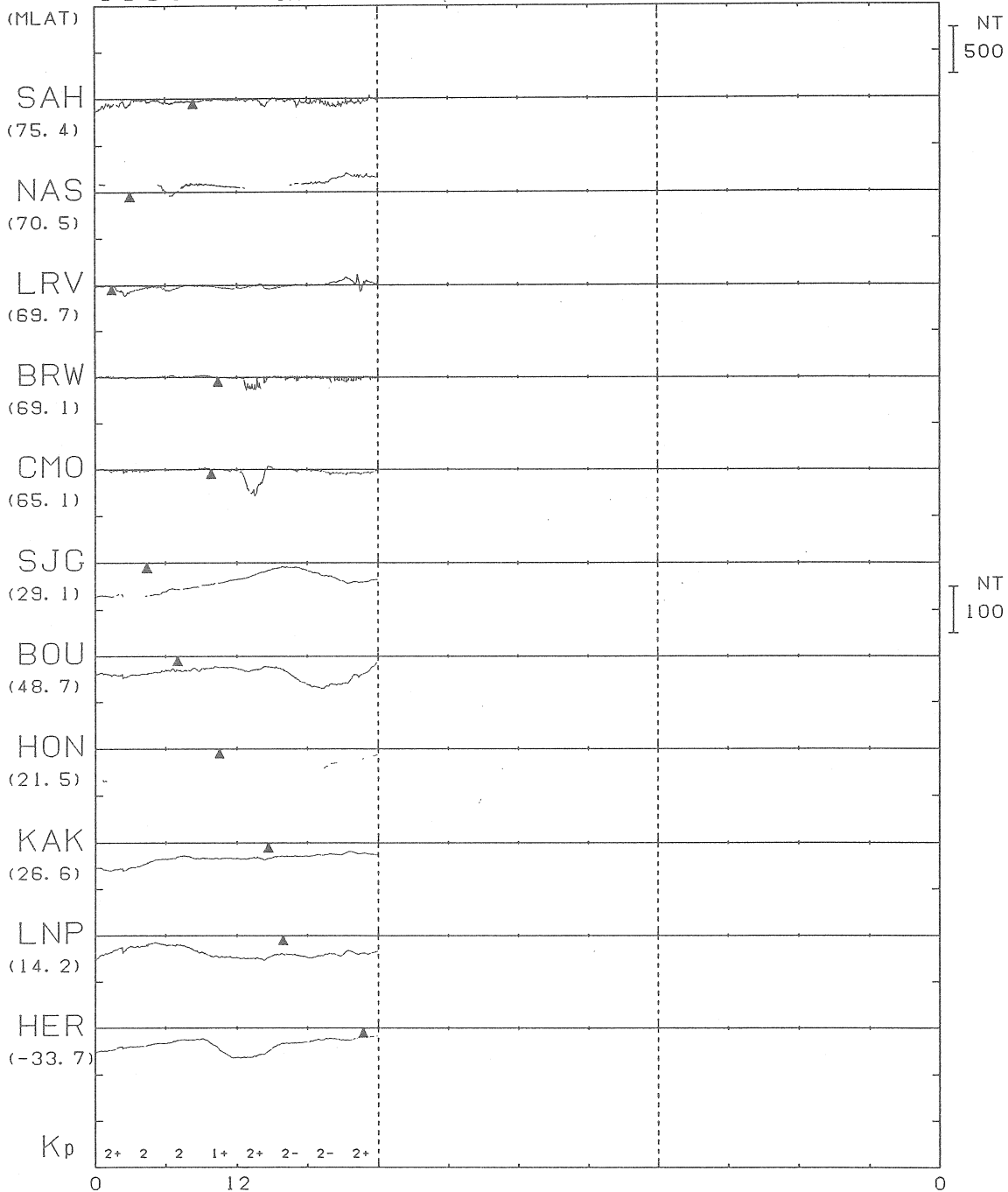
▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
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# 1990 H<sub>0R</sub> X-COMPONENT

▲ : LOCAL MIDNIGHT



MAR 31  
(DAY 90)

- \* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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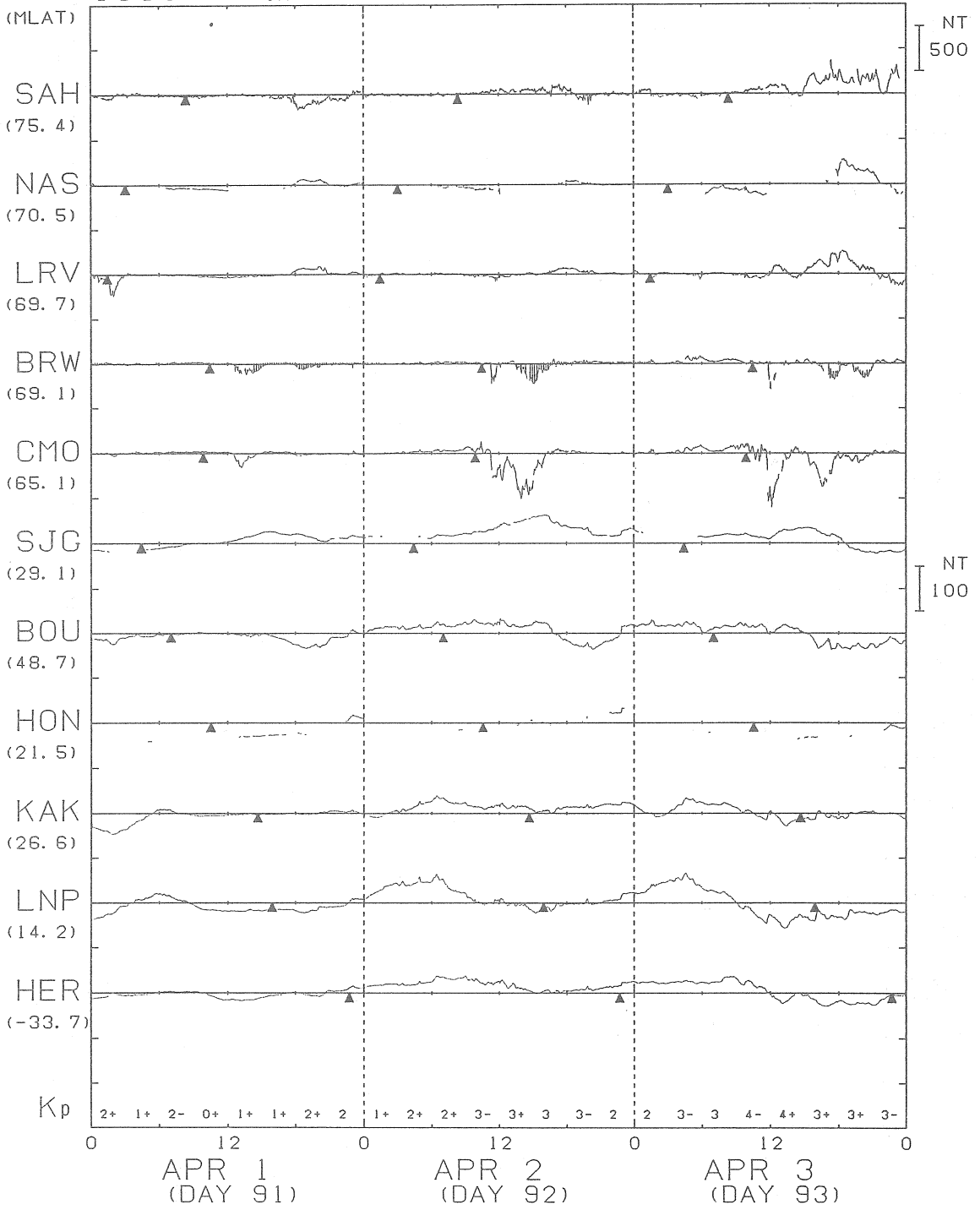
APRIL 1990

(DAY 091 - 120)



# 1990 H OR X-COMPONENT

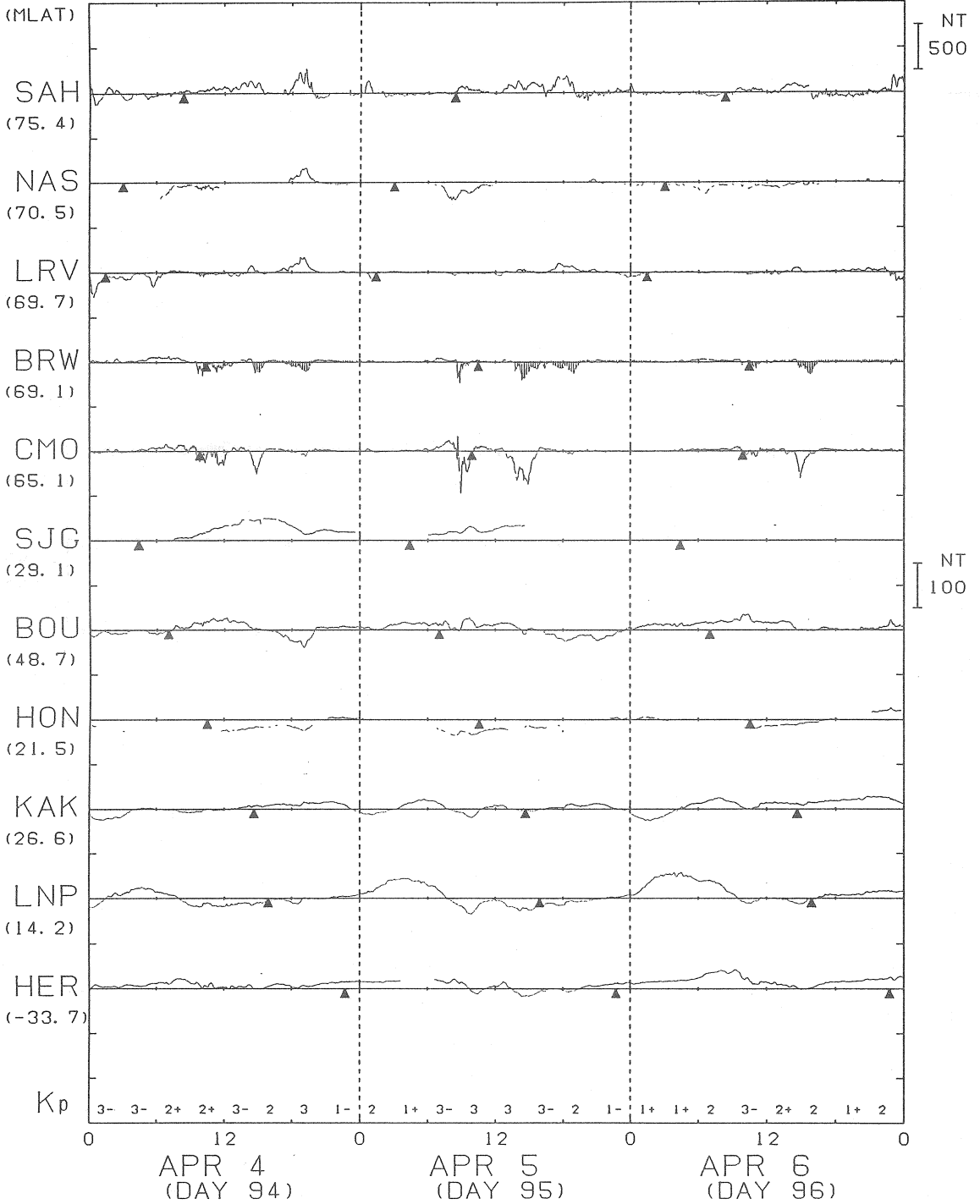
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

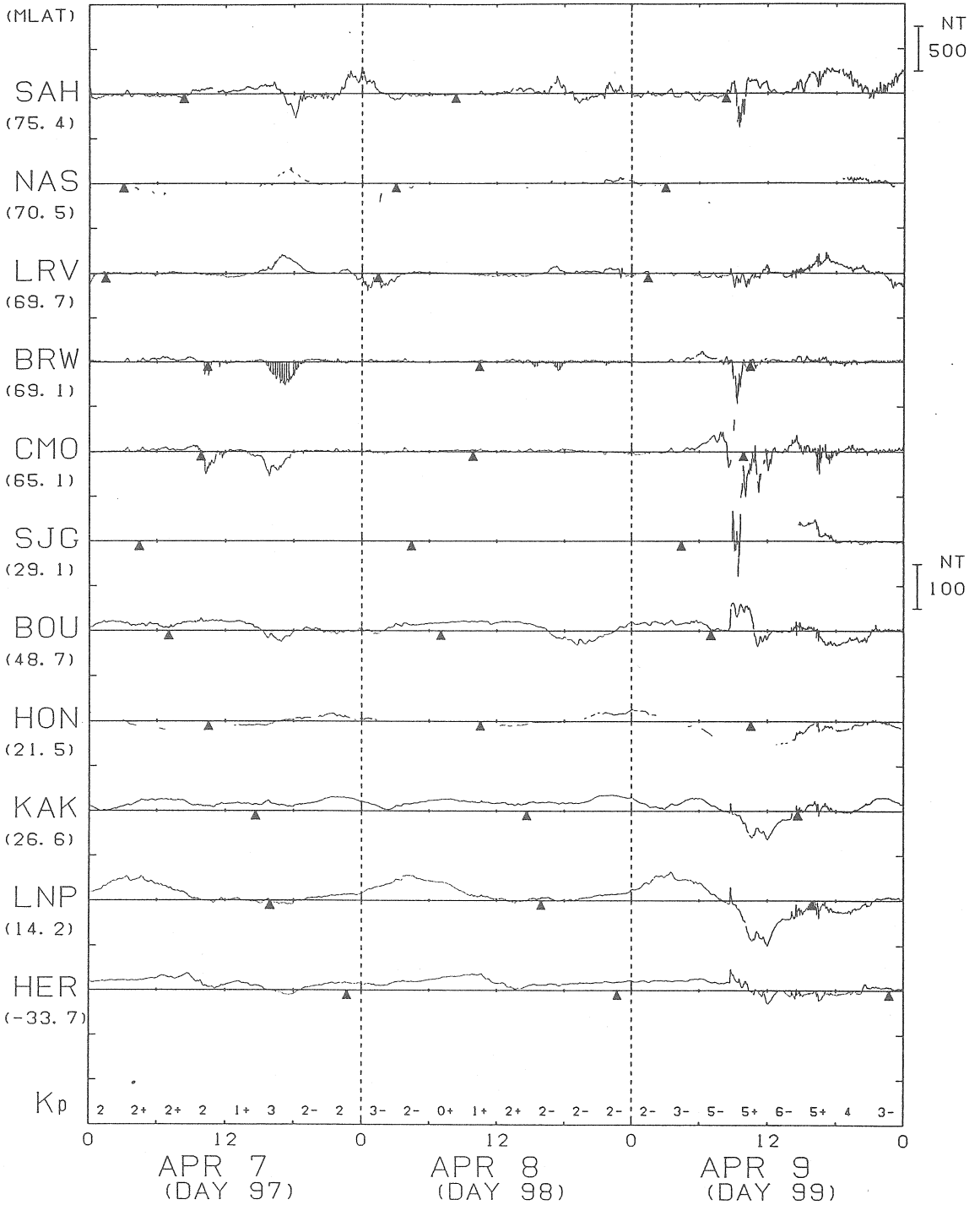
▲ : LOCAL MIDNIGHT



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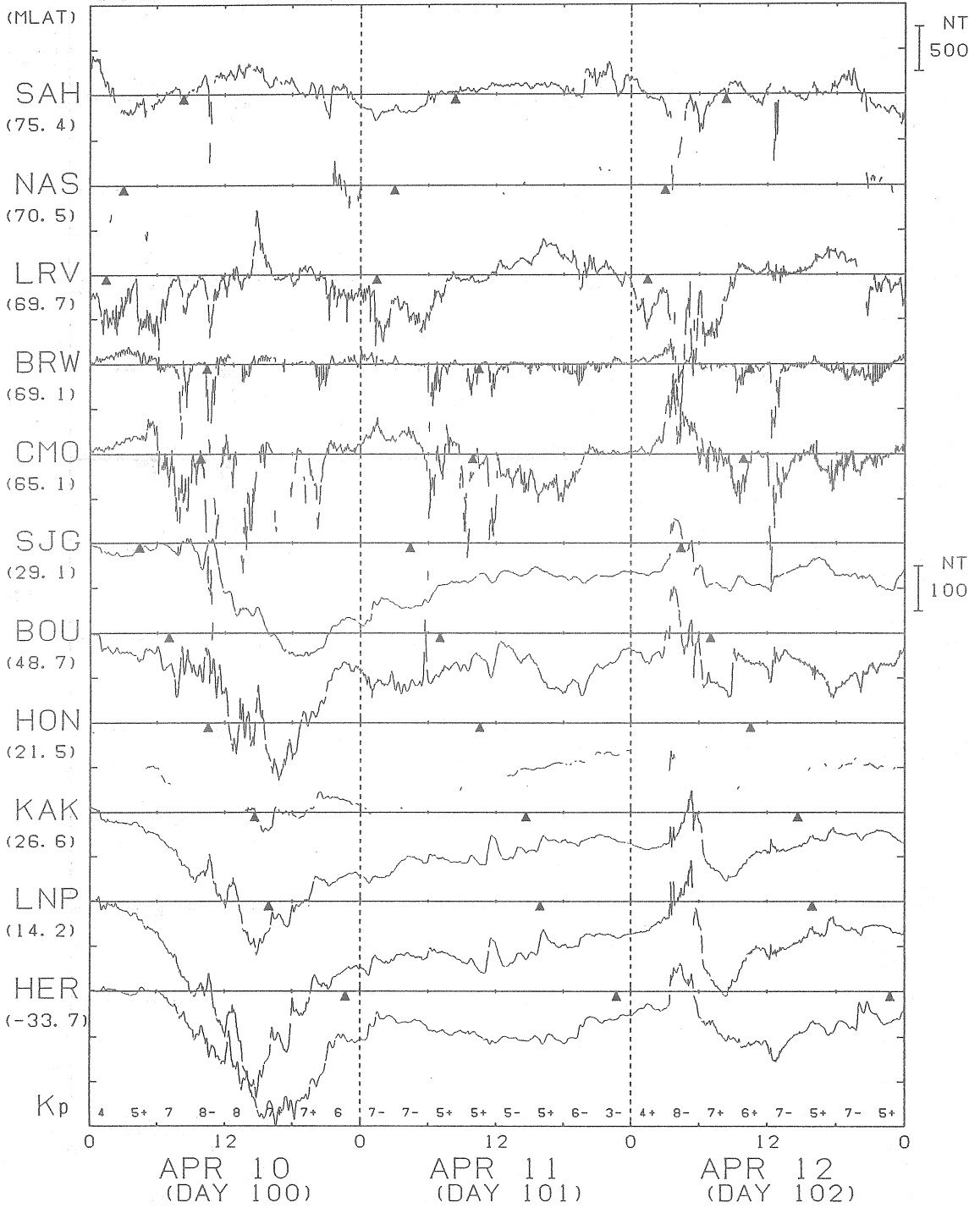
▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

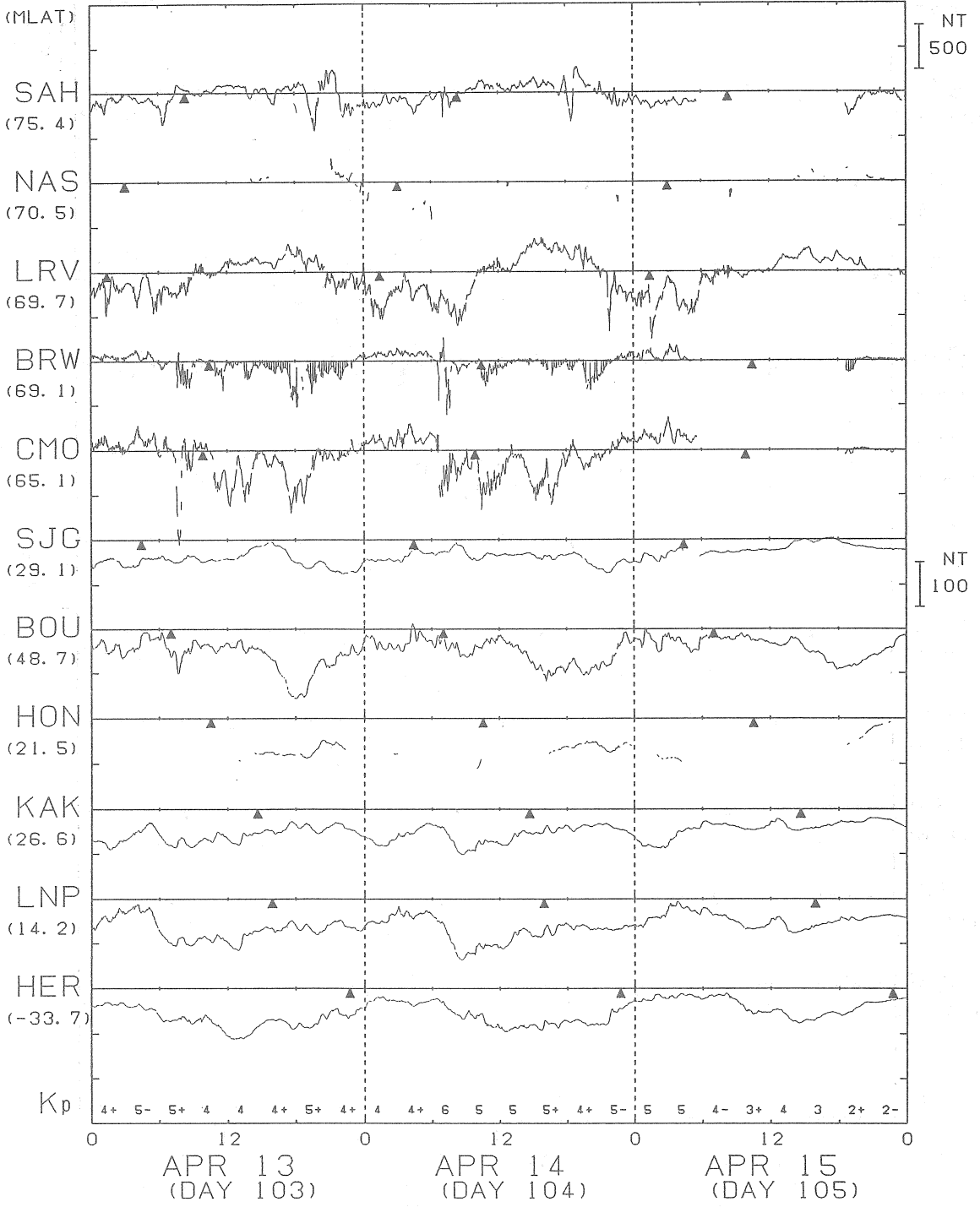
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# 1990 H OR X-COMPONENT

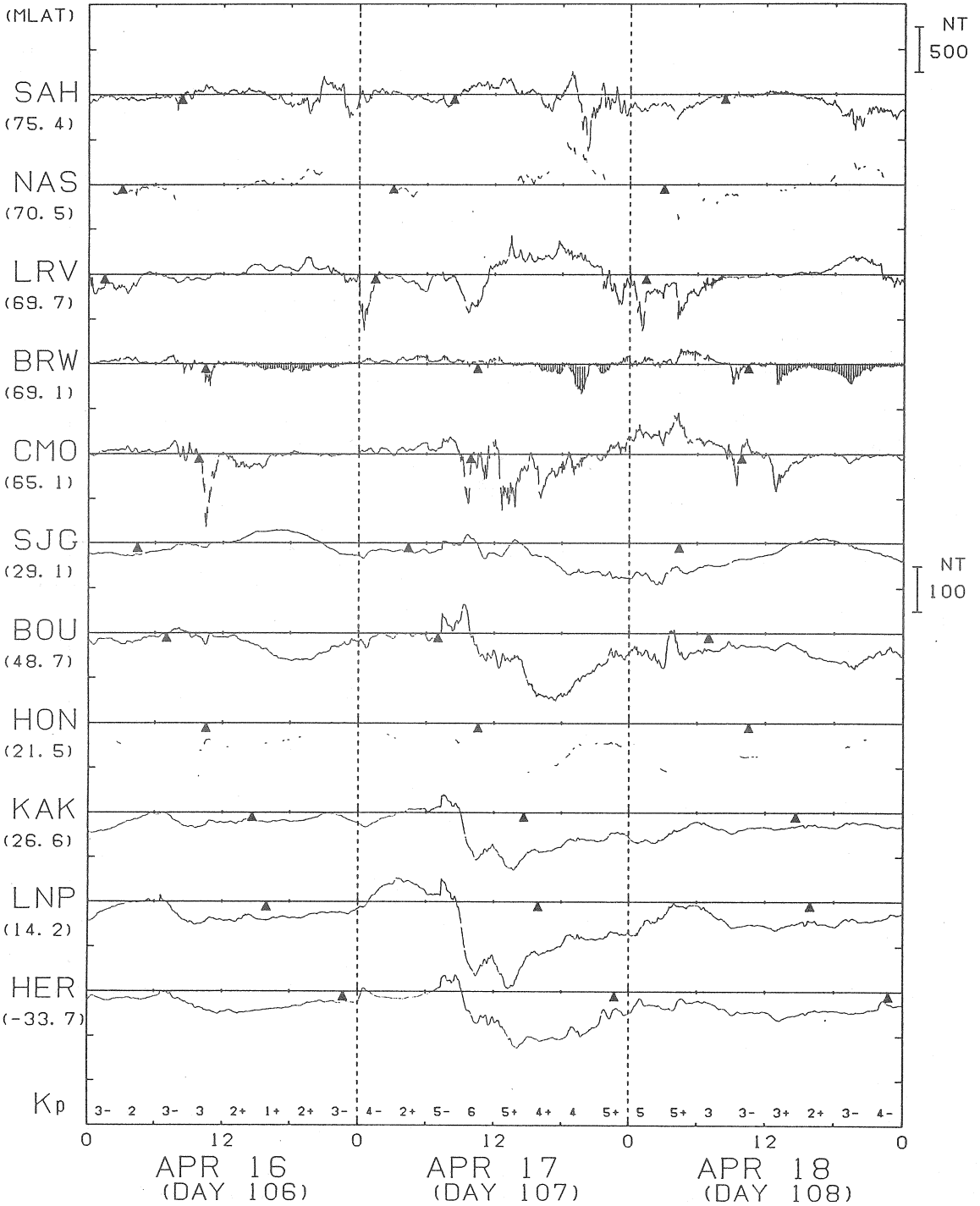
▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

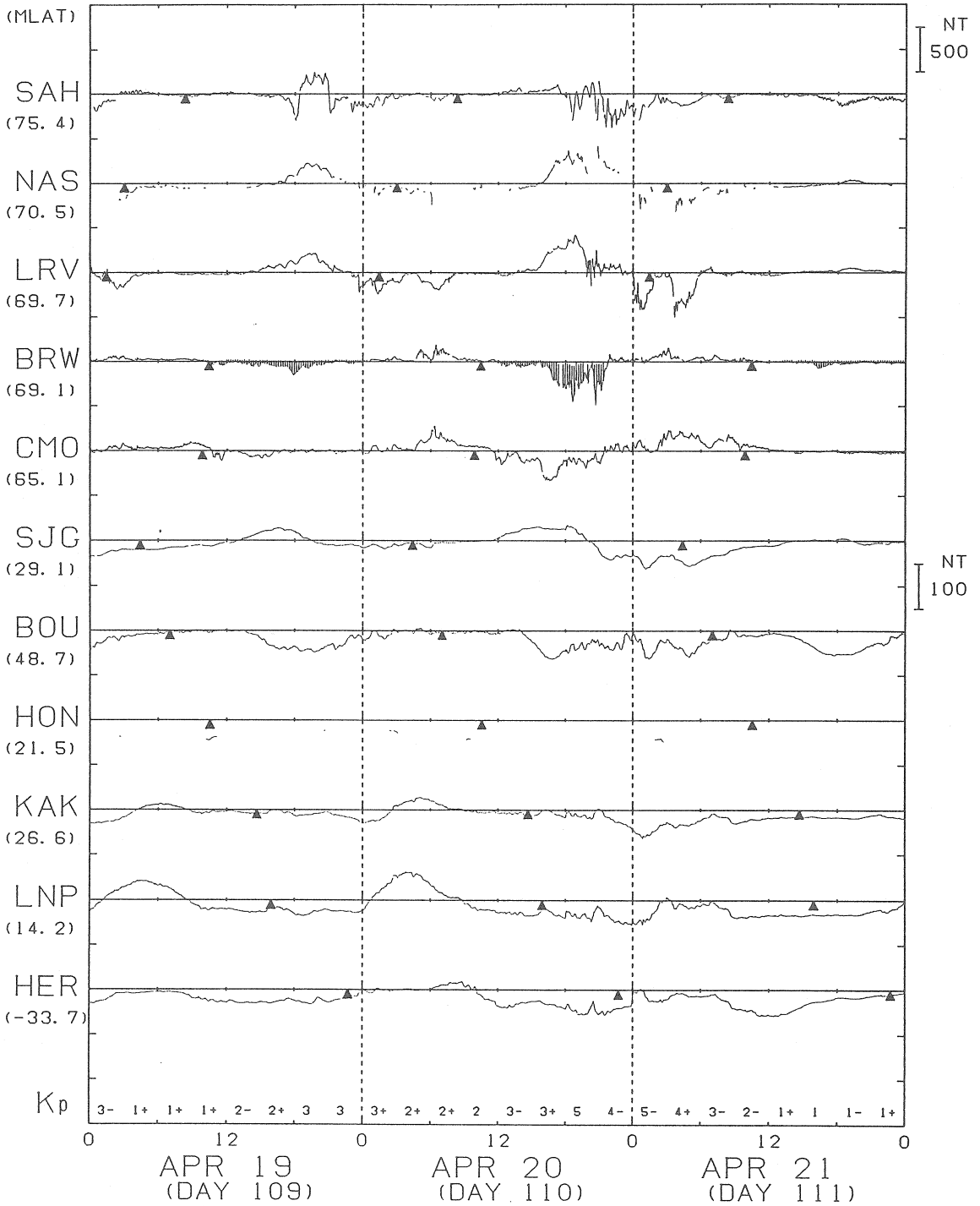


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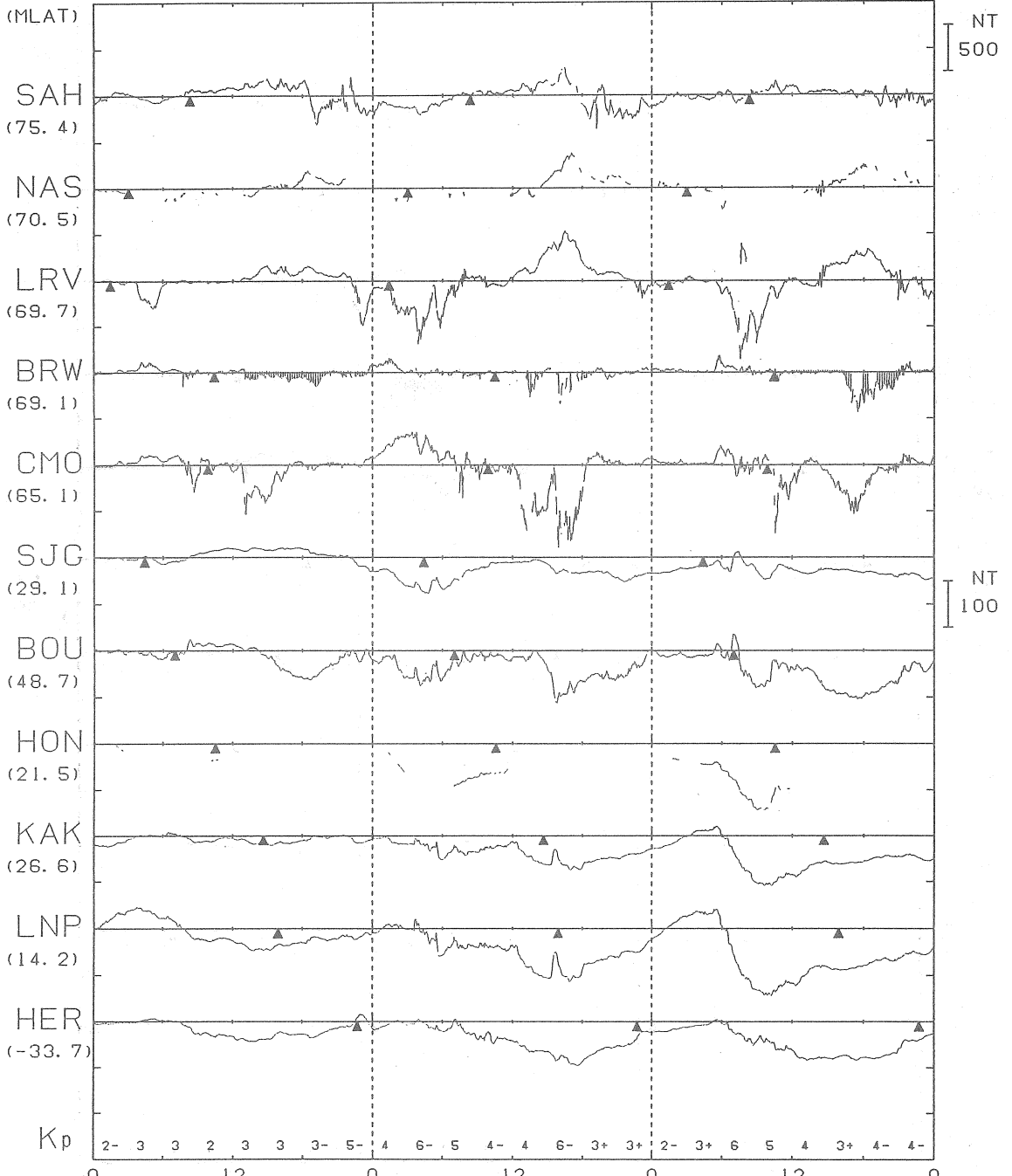
# 1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



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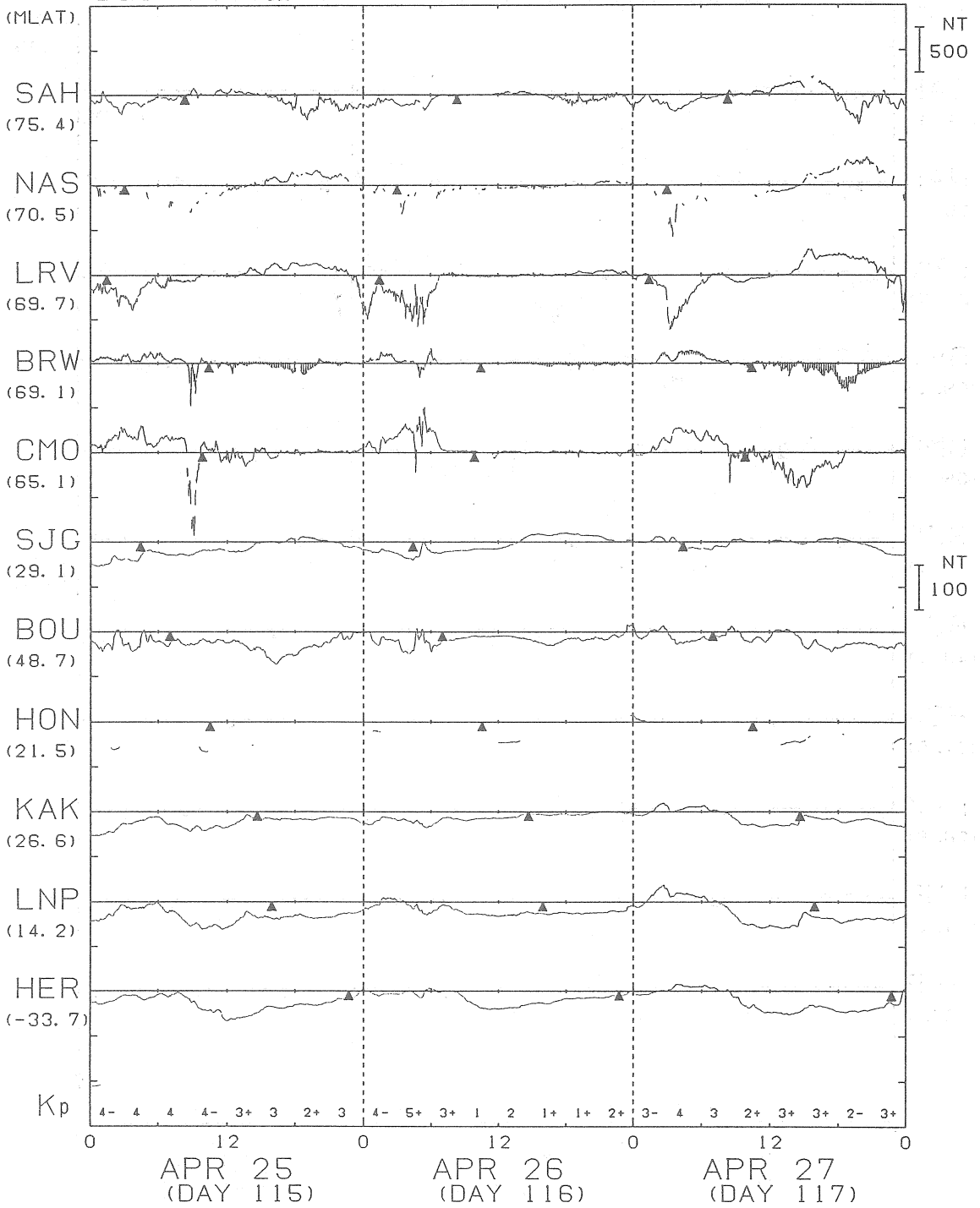
1990 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

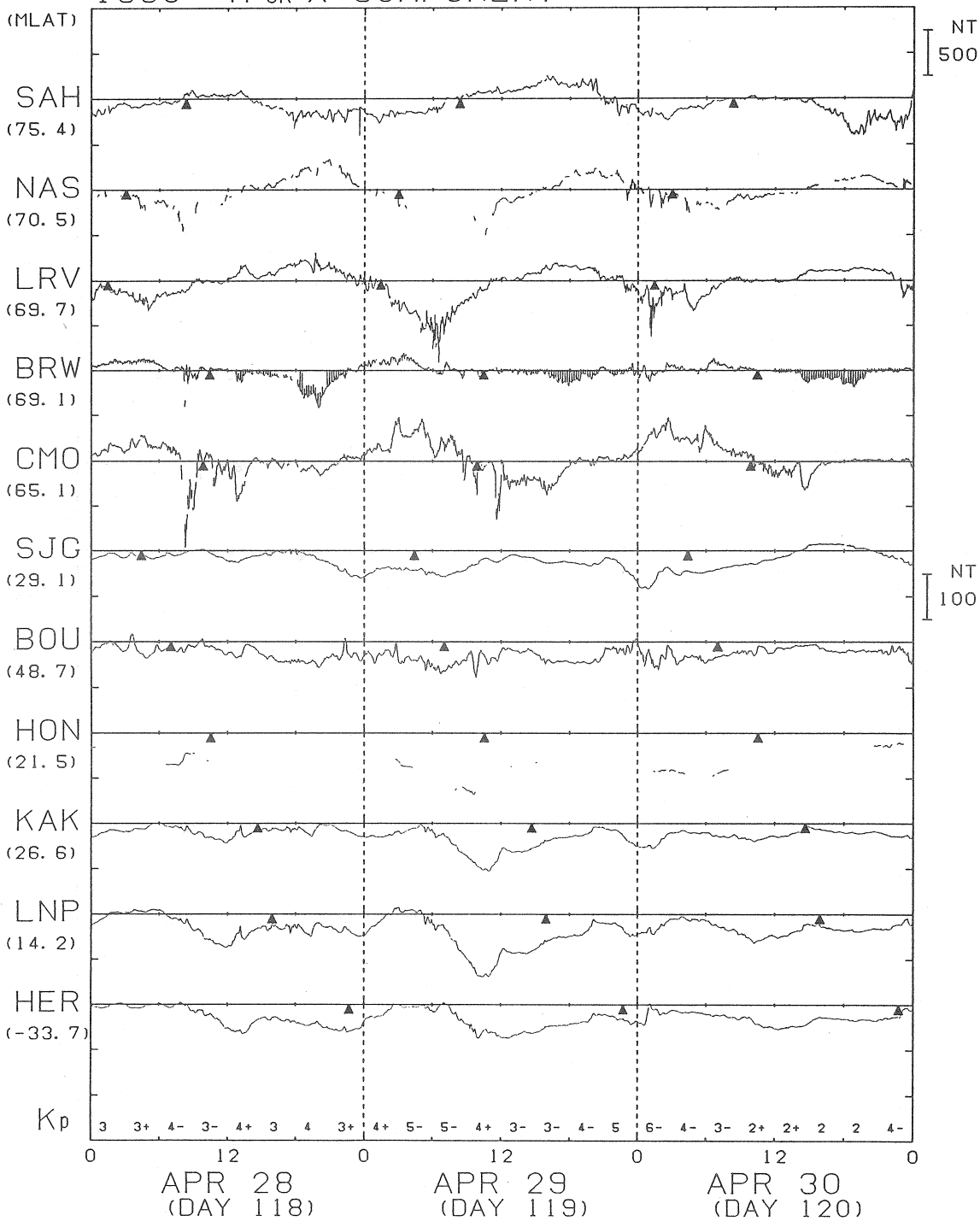
▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



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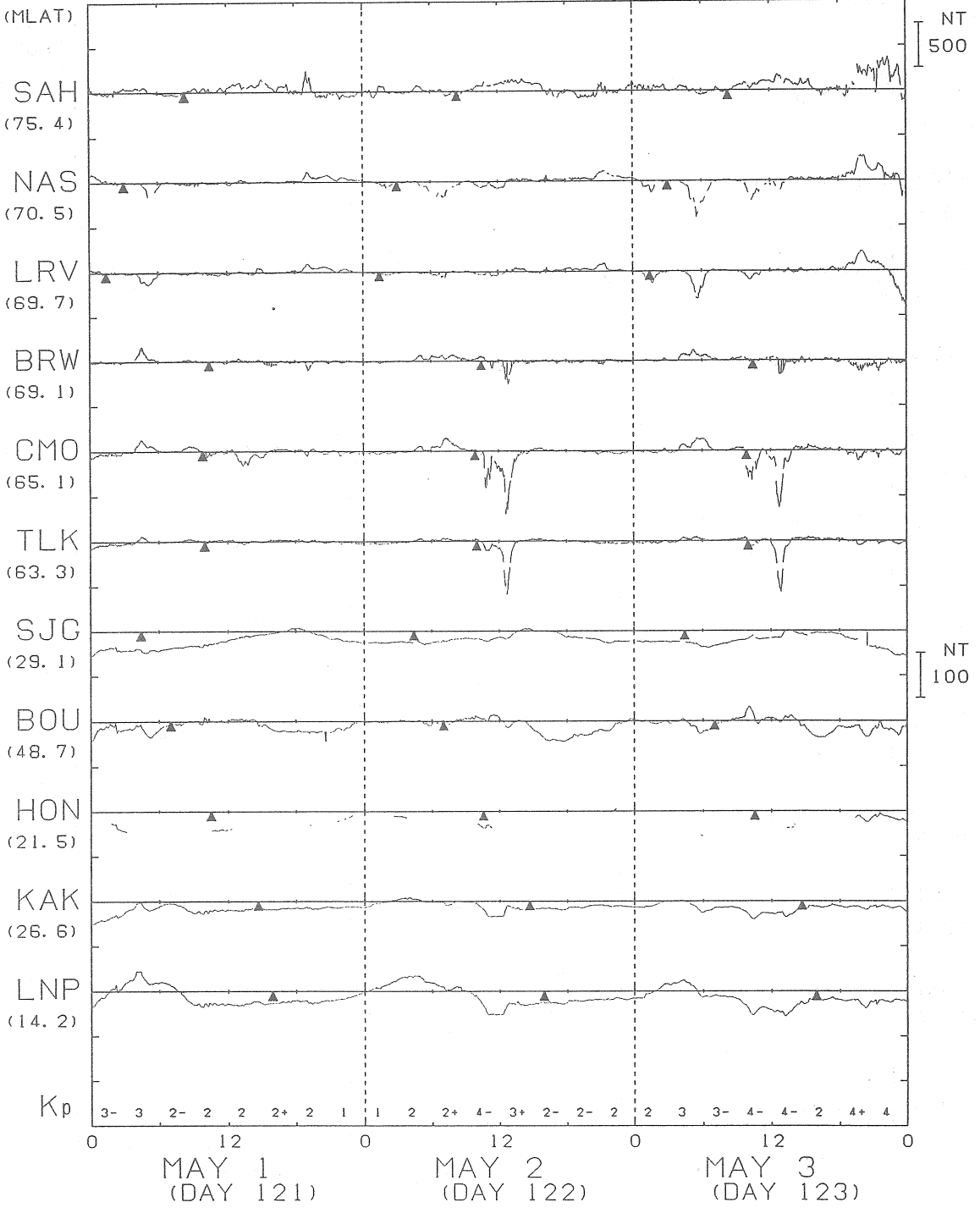
MAY 1990

(DAY 121 - 151)



1990 H OR X-COMPONENT

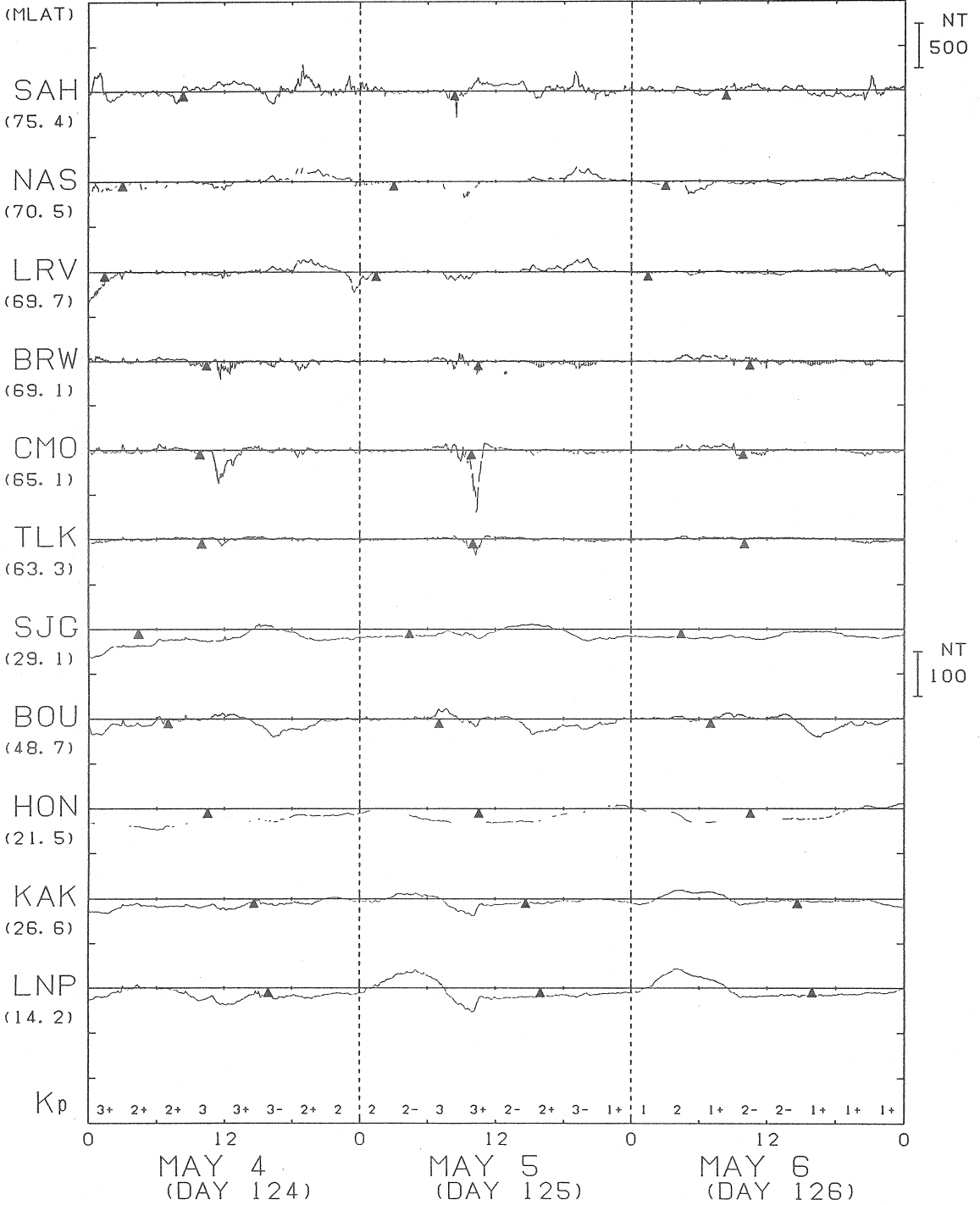
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

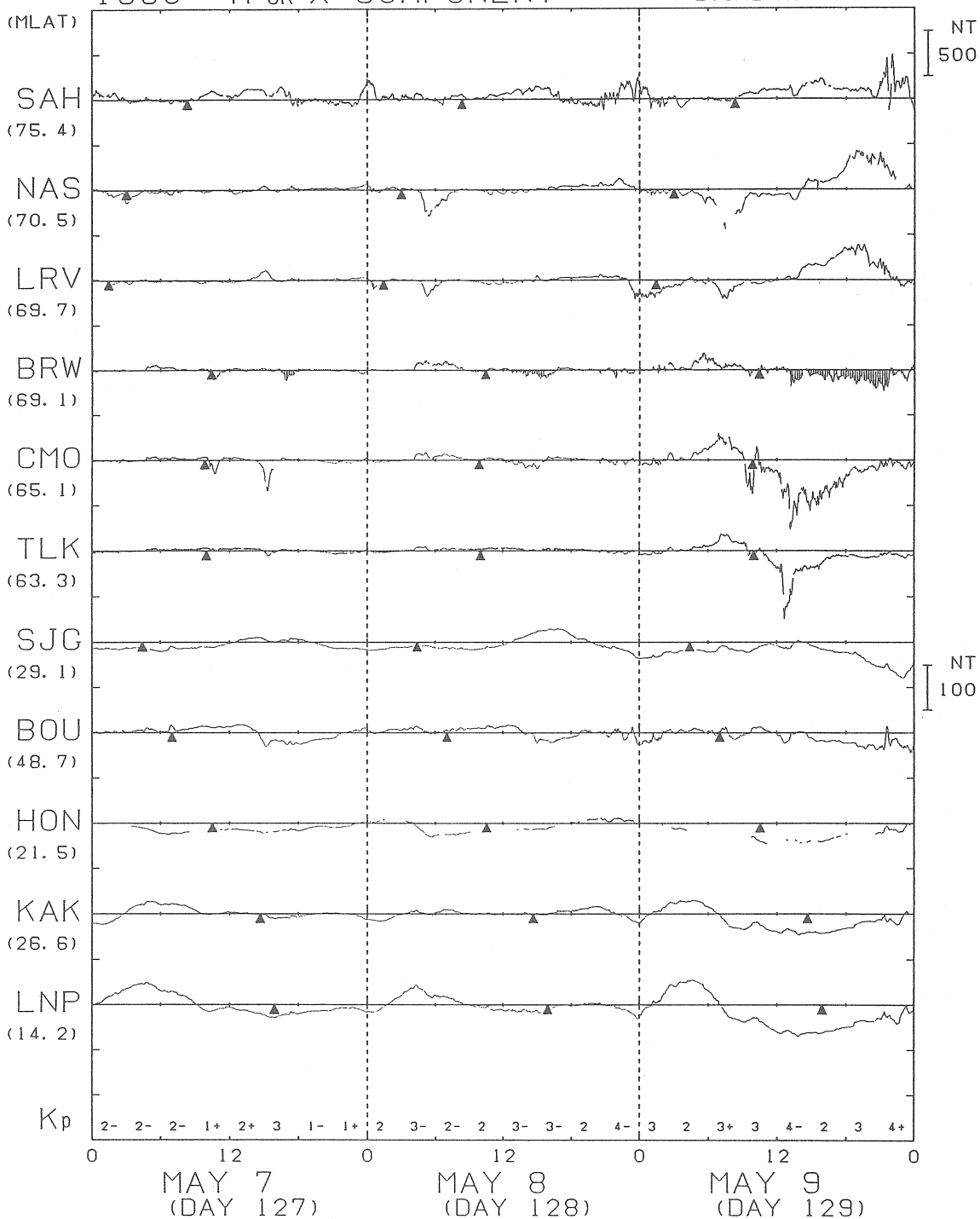


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 \* PROMPT DATA ARE INCLUDED  
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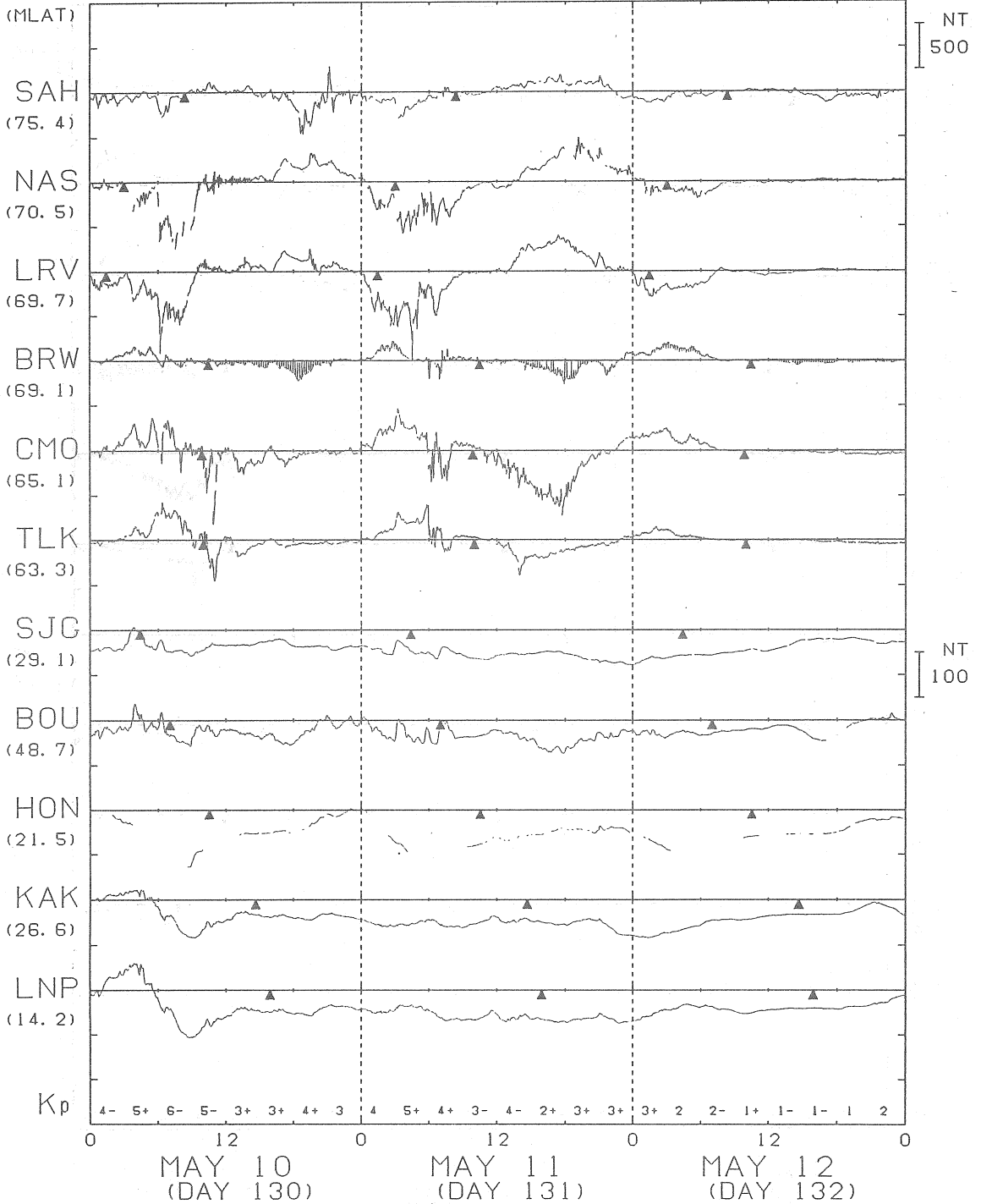
# 1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

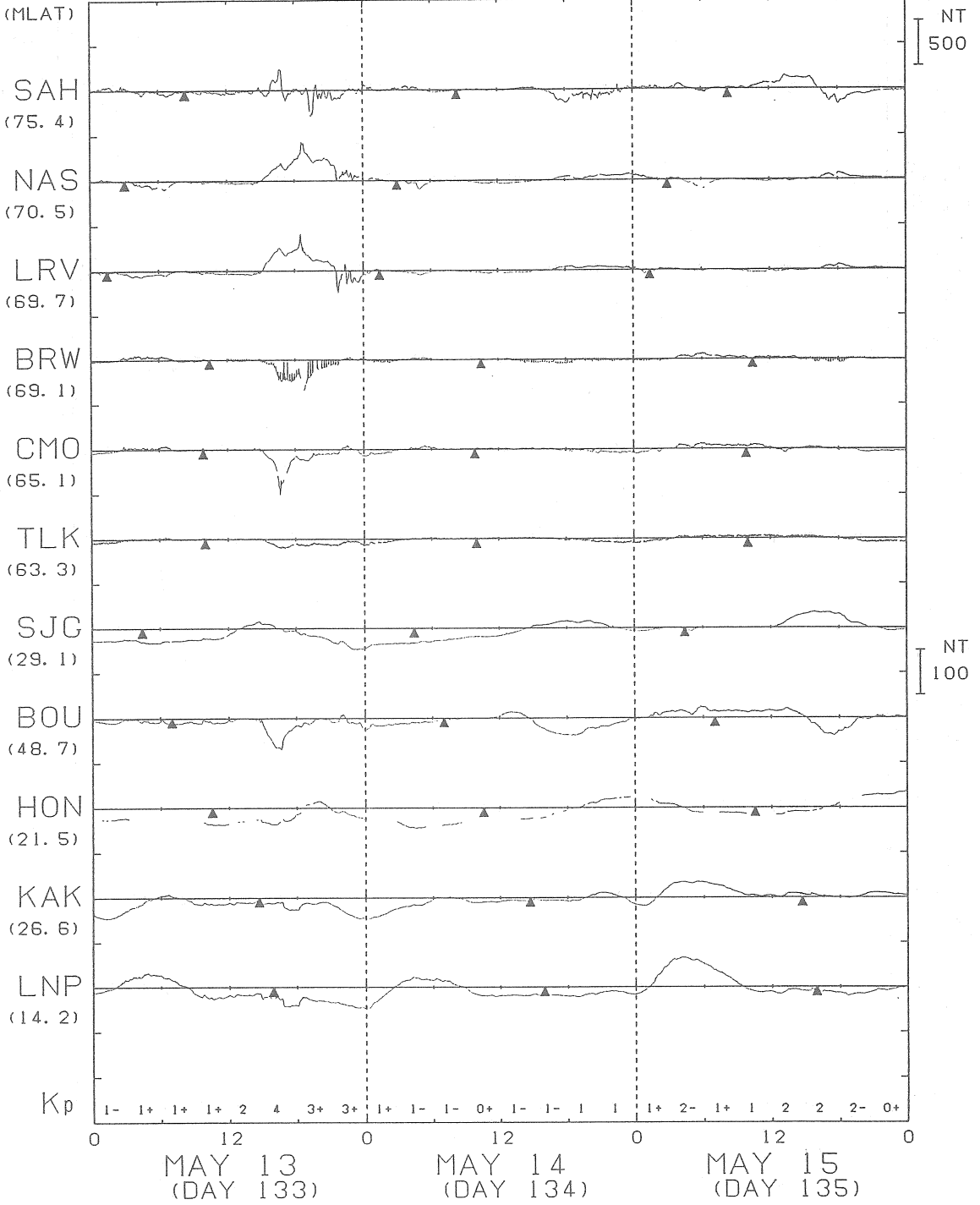
1990 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

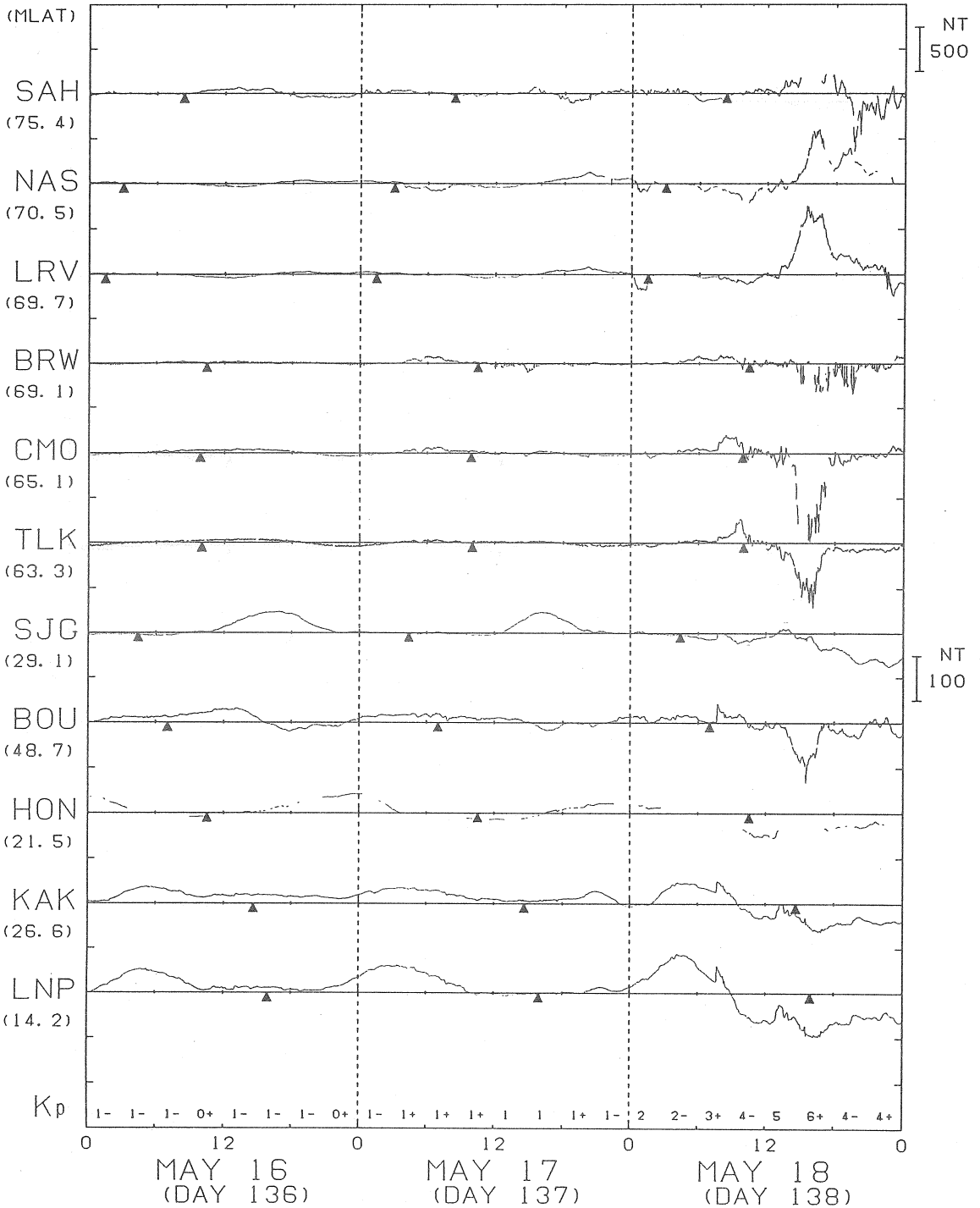
▲ : LOCAL MIDNIGHT



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 \* PROMPT DATA ARE INCLUDED  
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# 1990 H OR X-COMPONENT

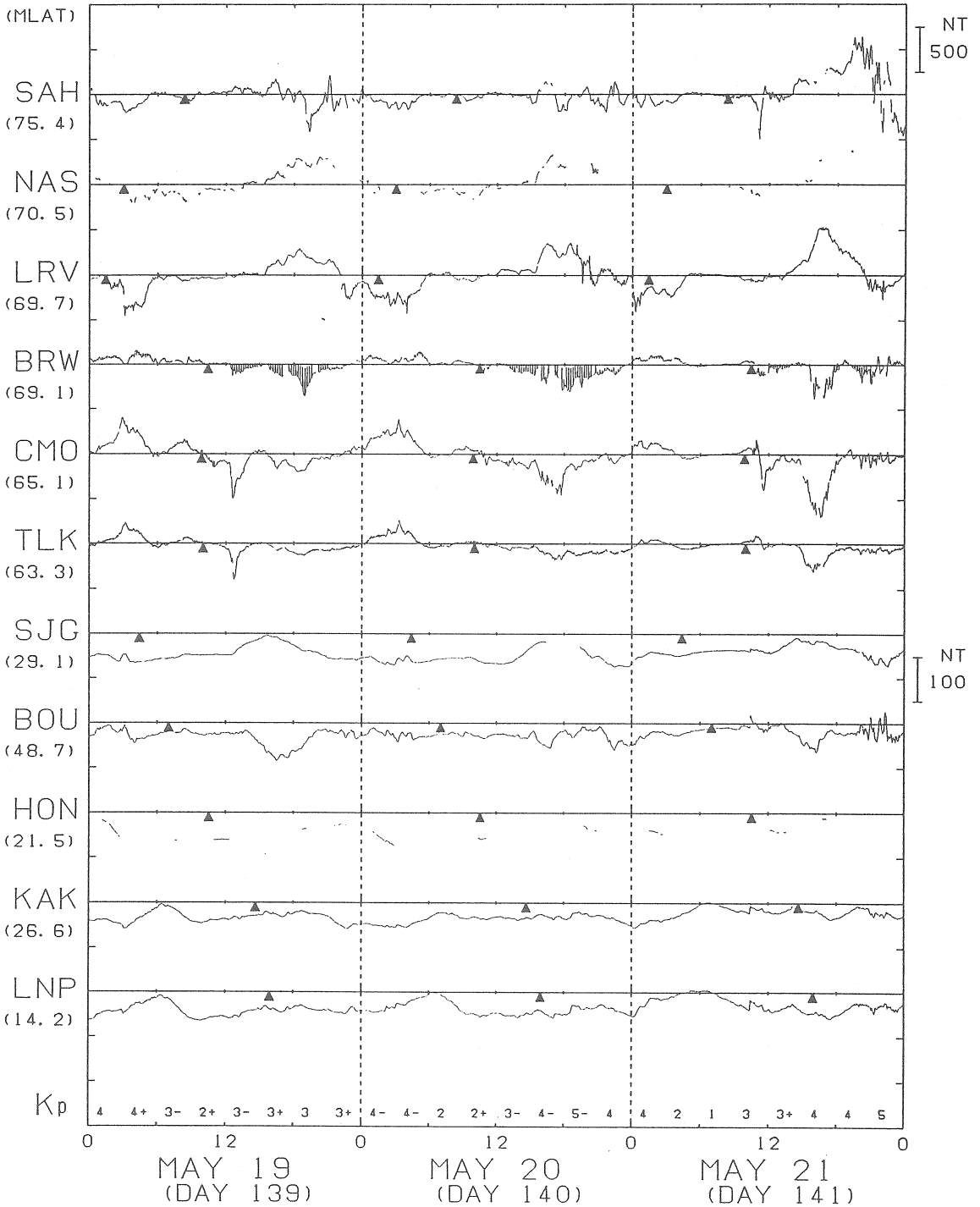
▲ : LOCAL MIDNIGHT



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 \* PROMPT DATA ARE INCLUDED  
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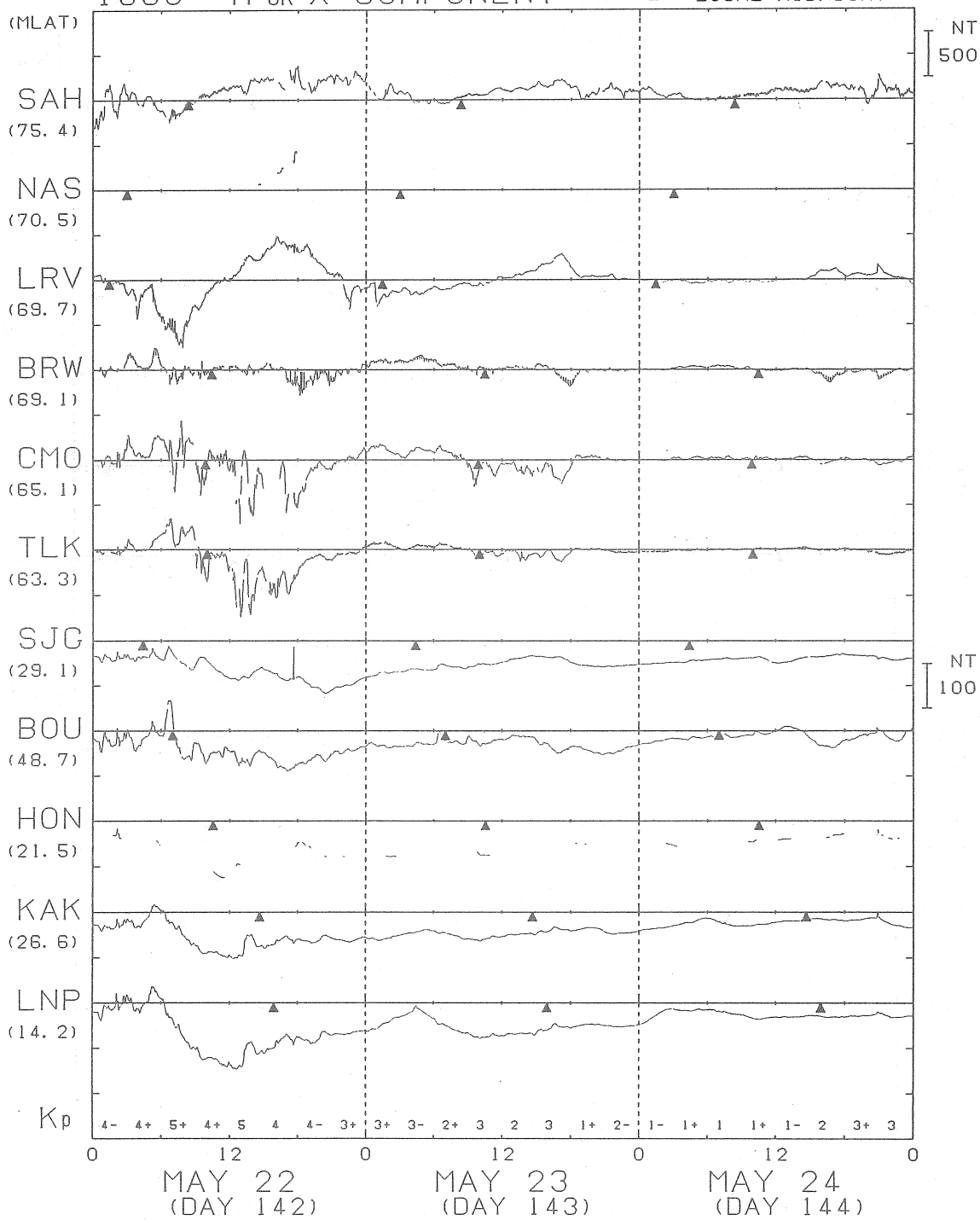
# 1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



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 \* PROMPT DATA ARE INCLUDED  
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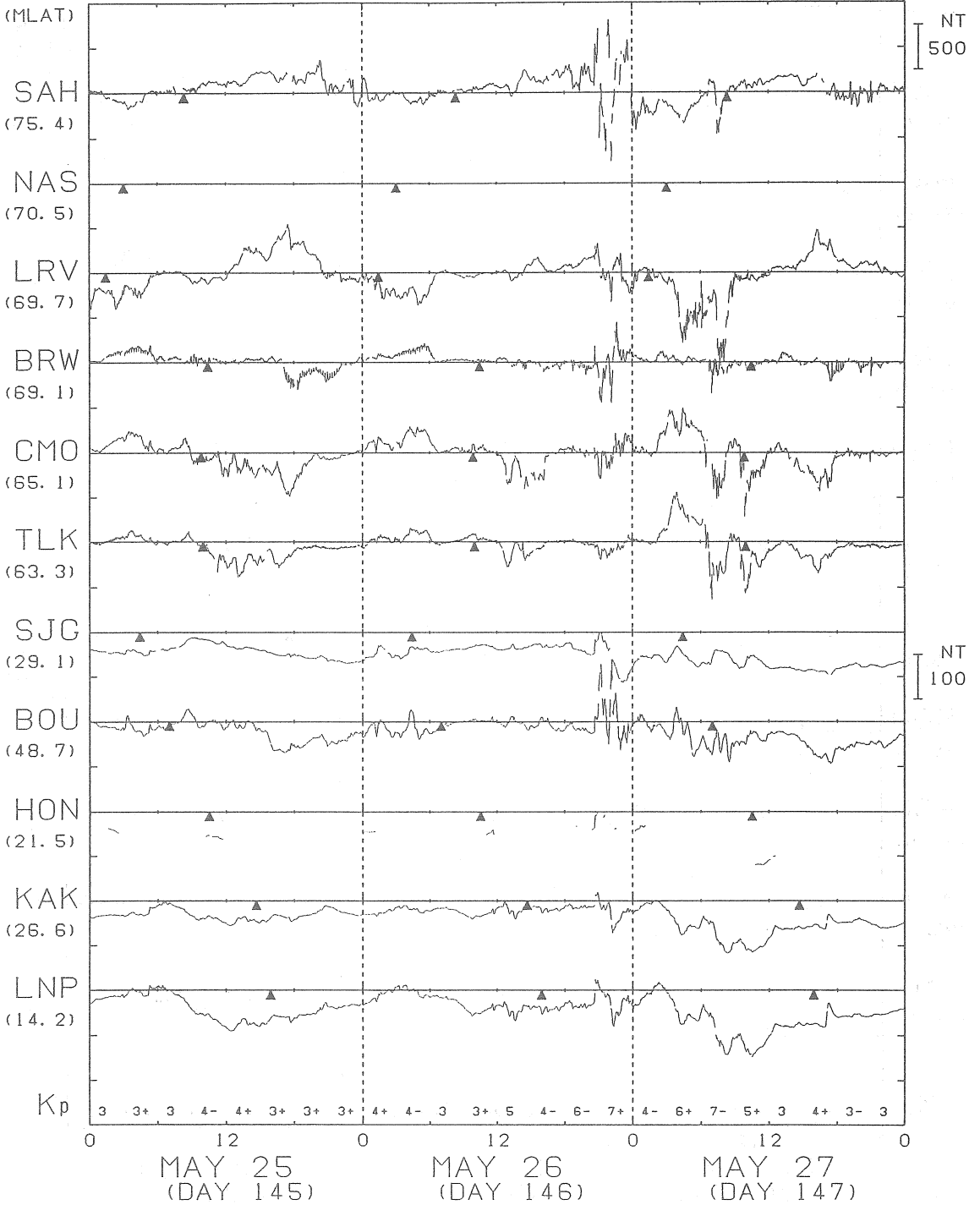
1990 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



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 \* PROMPT DATA ARE INCLUDED  
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# 1990 H OR X-COMPONENT

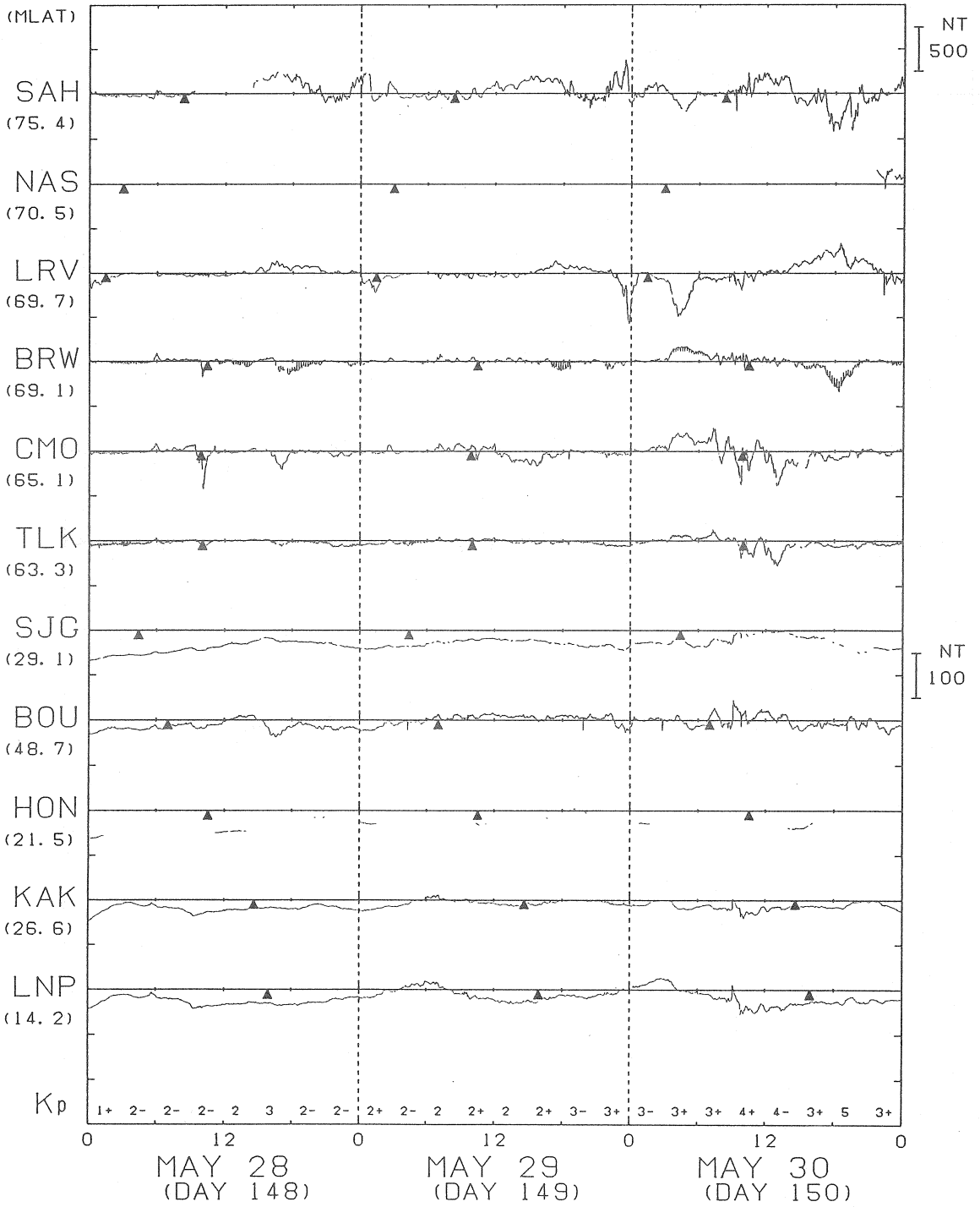
▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

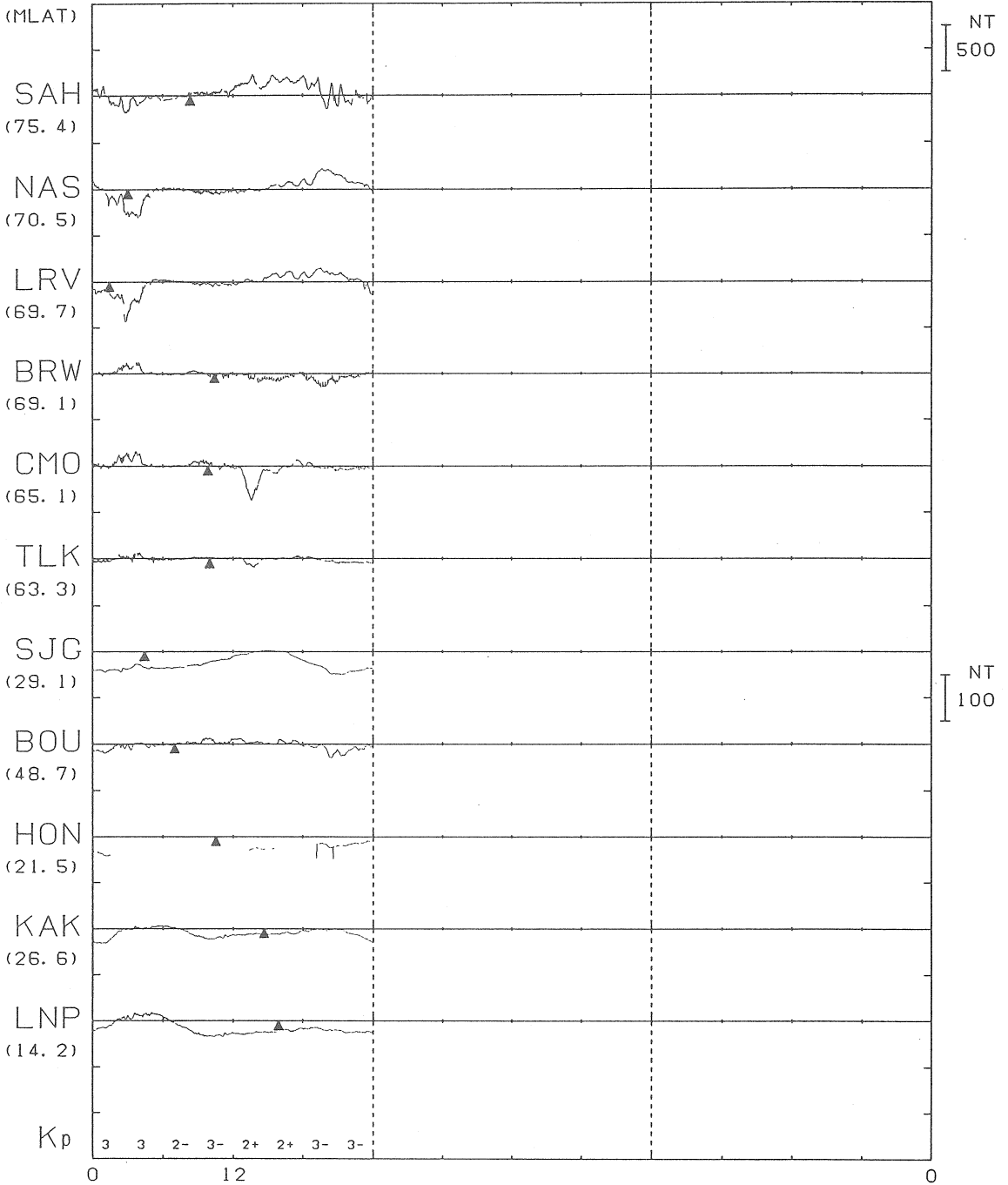


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
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# 1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAY 31  
(DAY 151)

- \* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
- \* PROMPT DATA ARE INCLUDED
- \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH



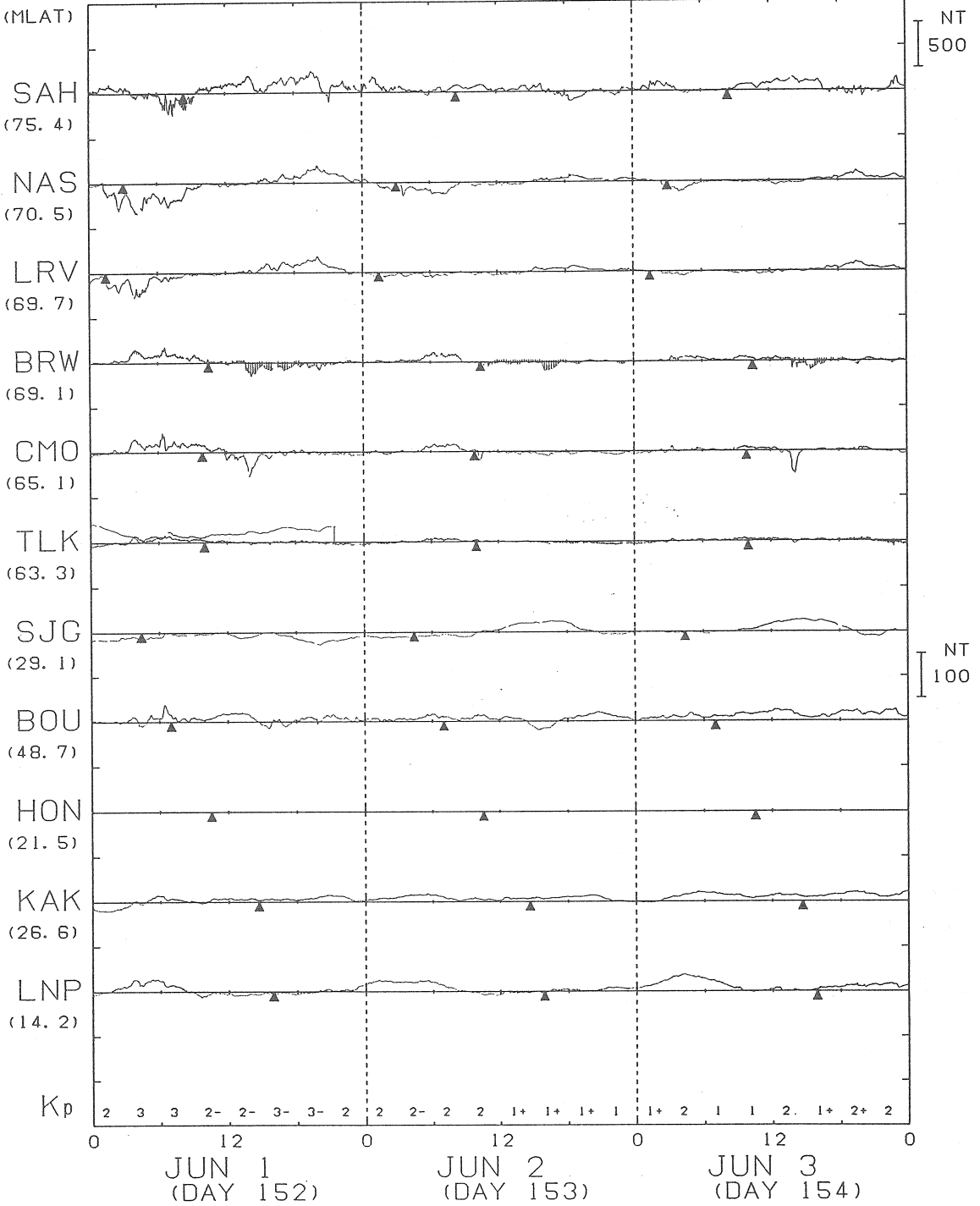
JUNE 1990

(DAY 152 - 181)



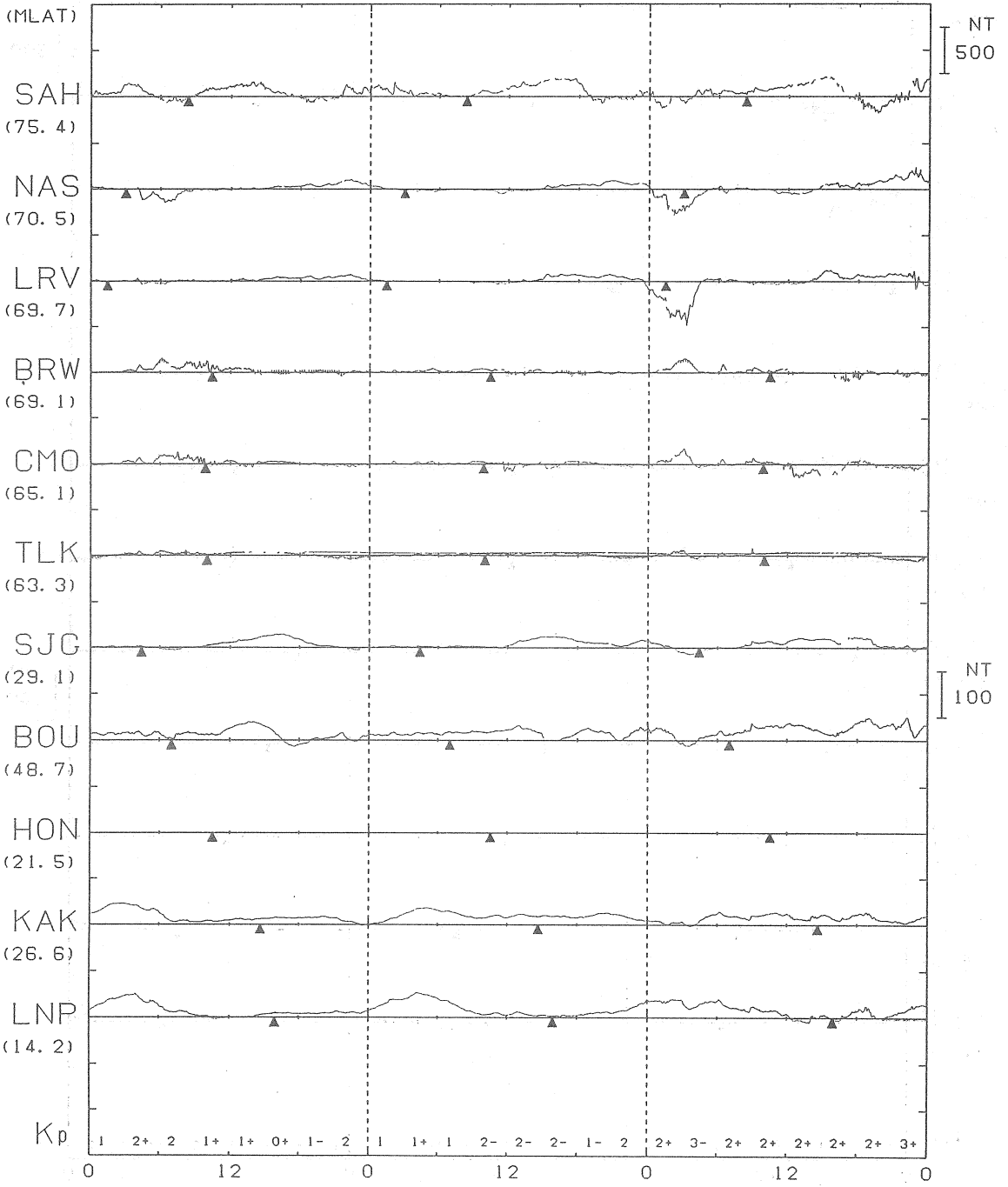
# 1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



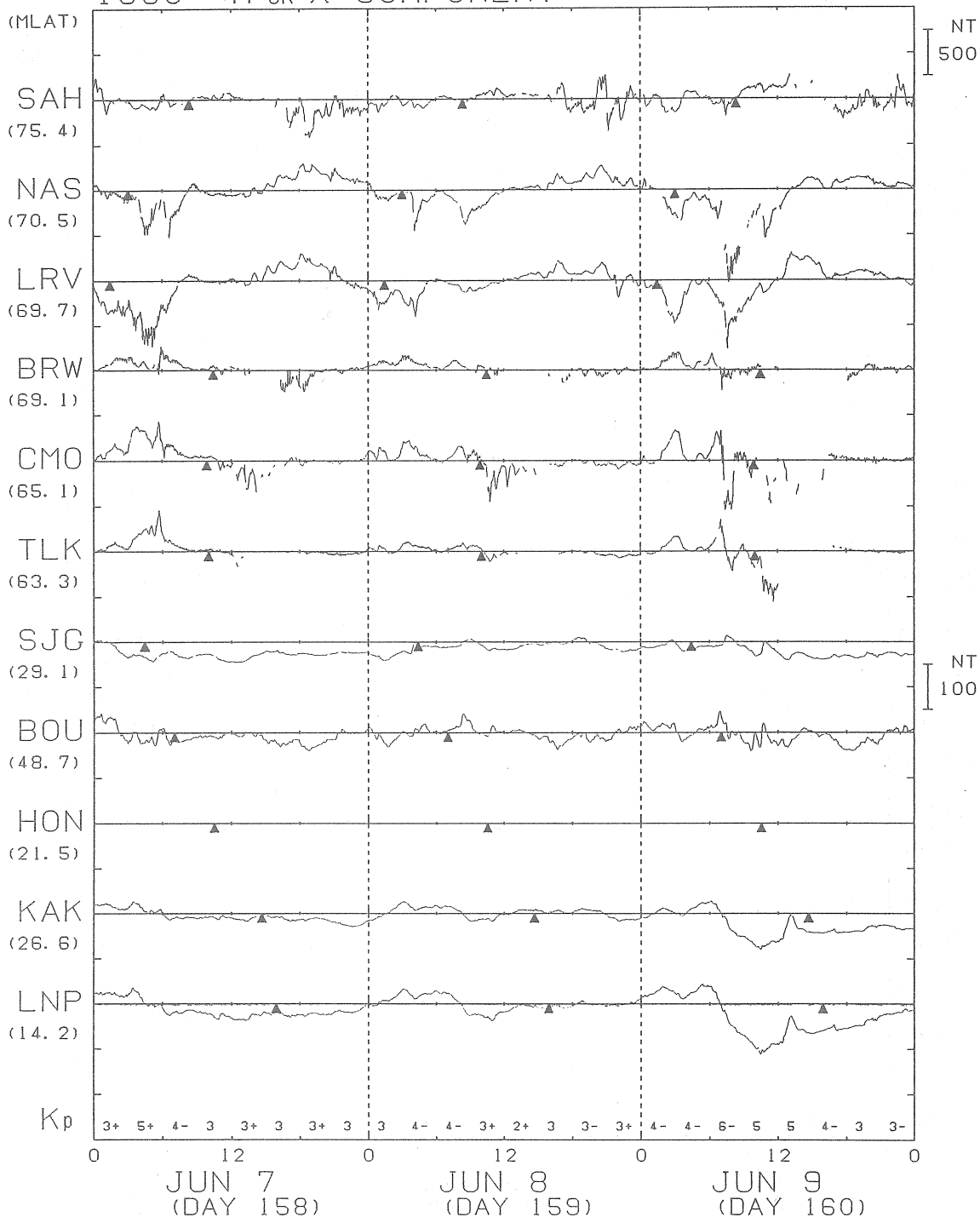
\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

1990 H<sub>0R</sub> X-COMPONENT ▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

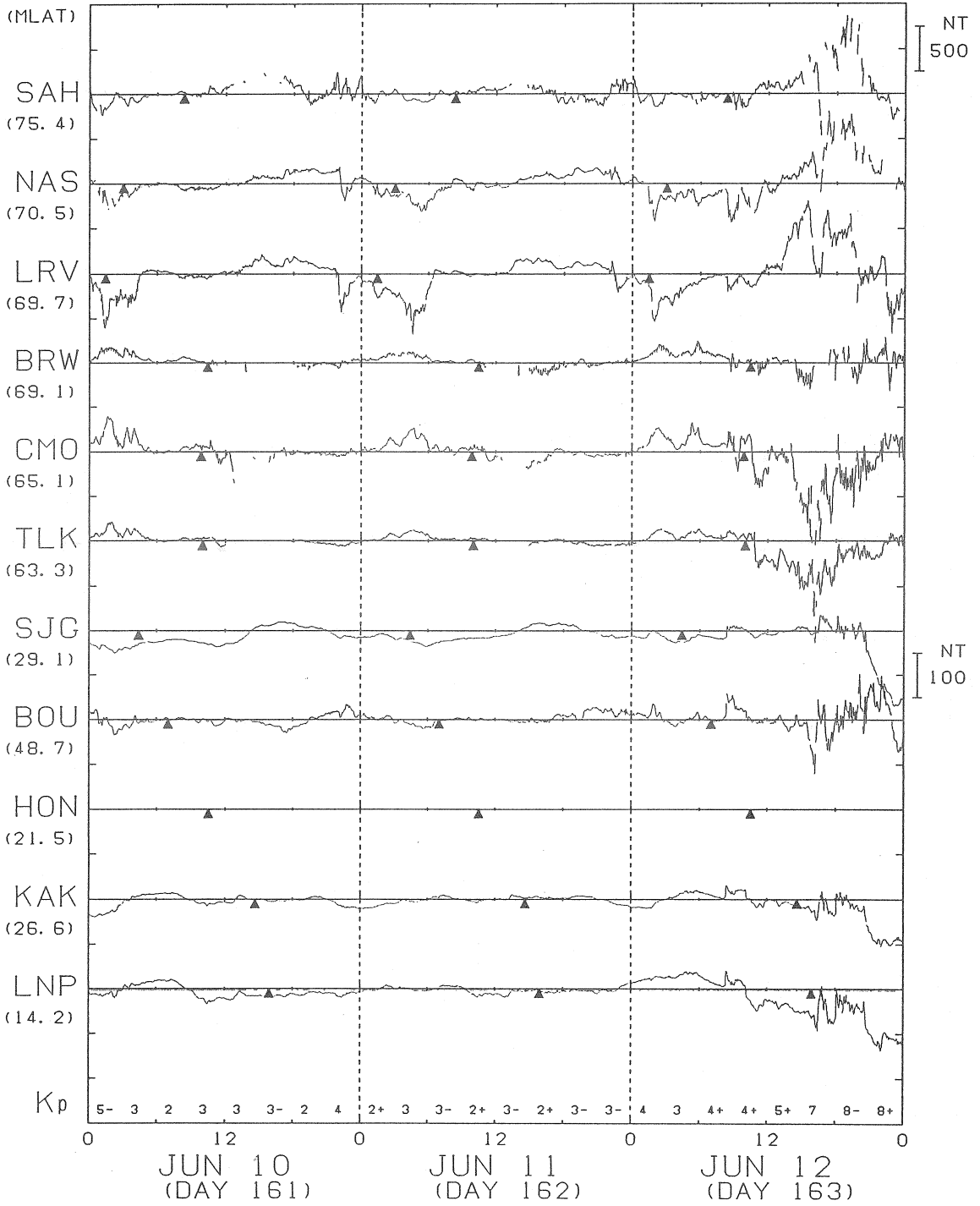
1990 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
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1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

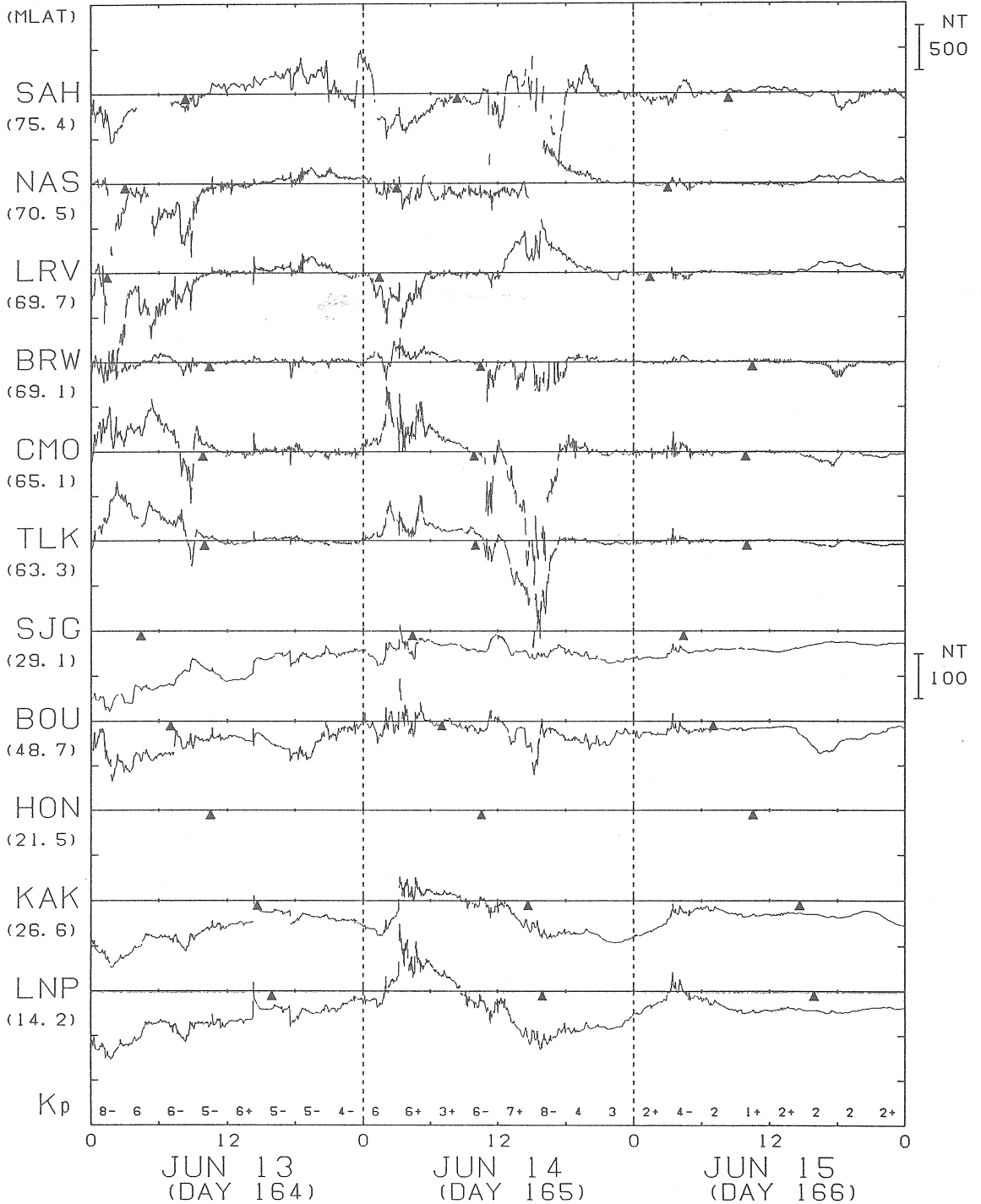


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
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# 1990 H OR X-COMPONENT

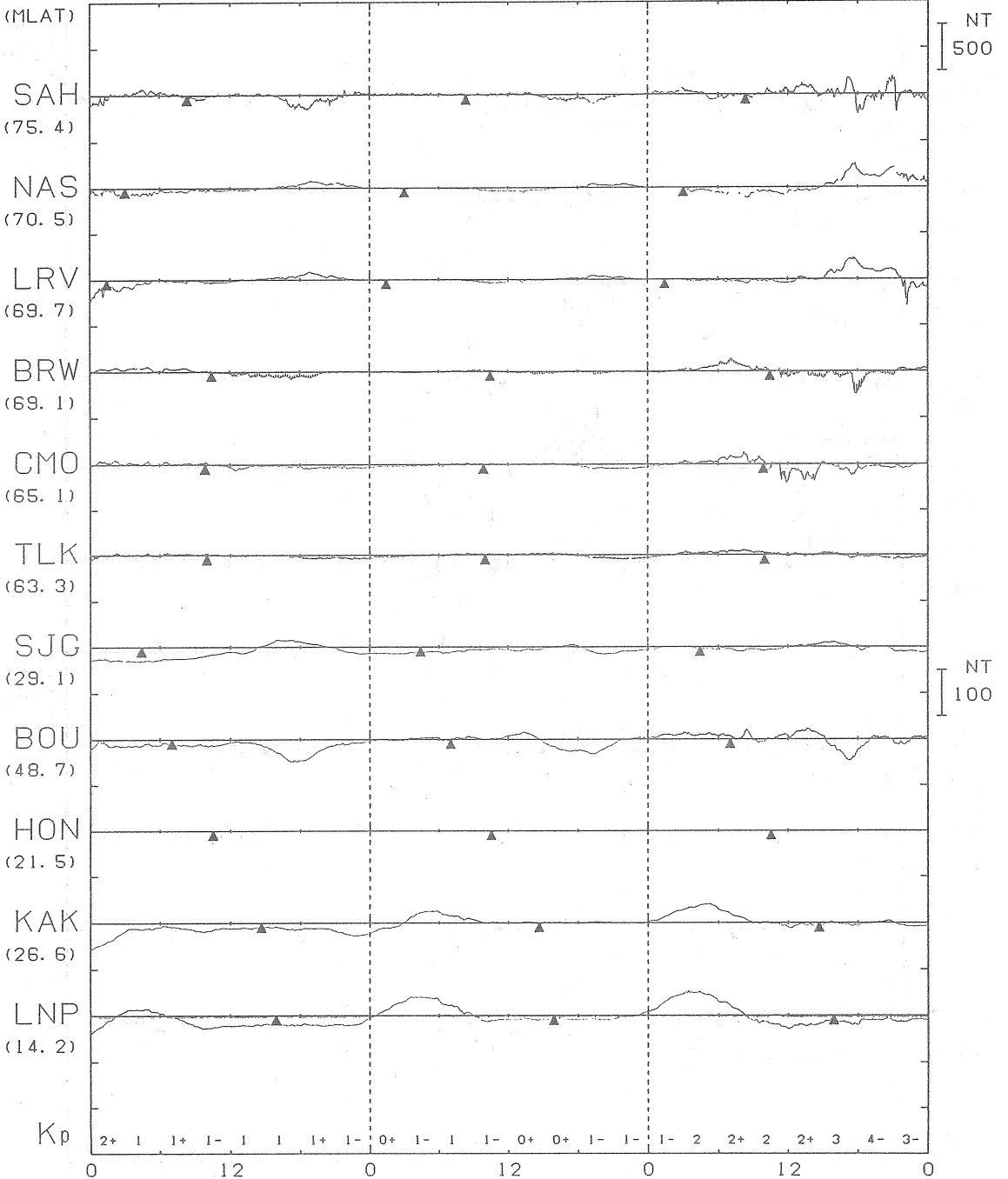
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

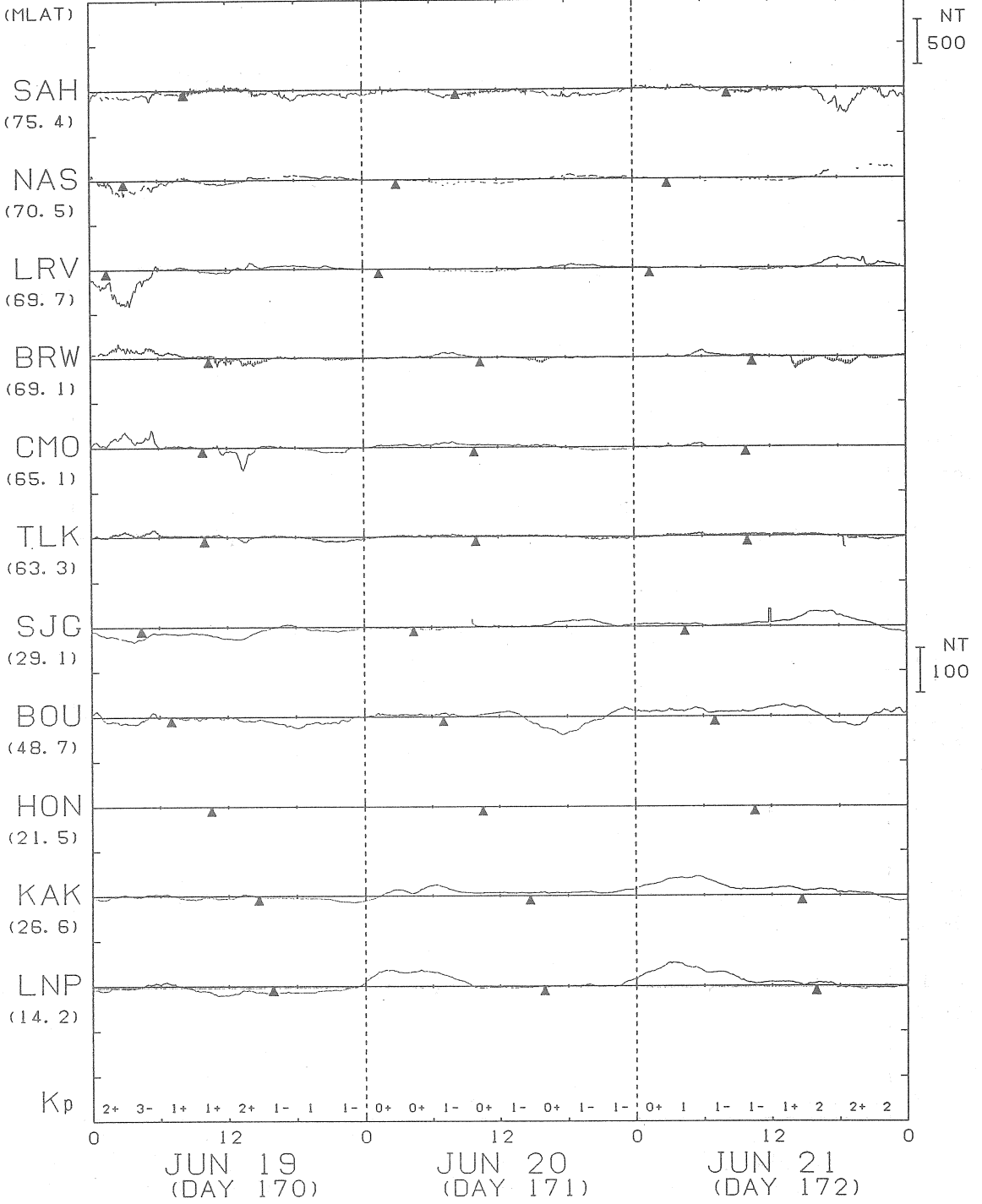
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

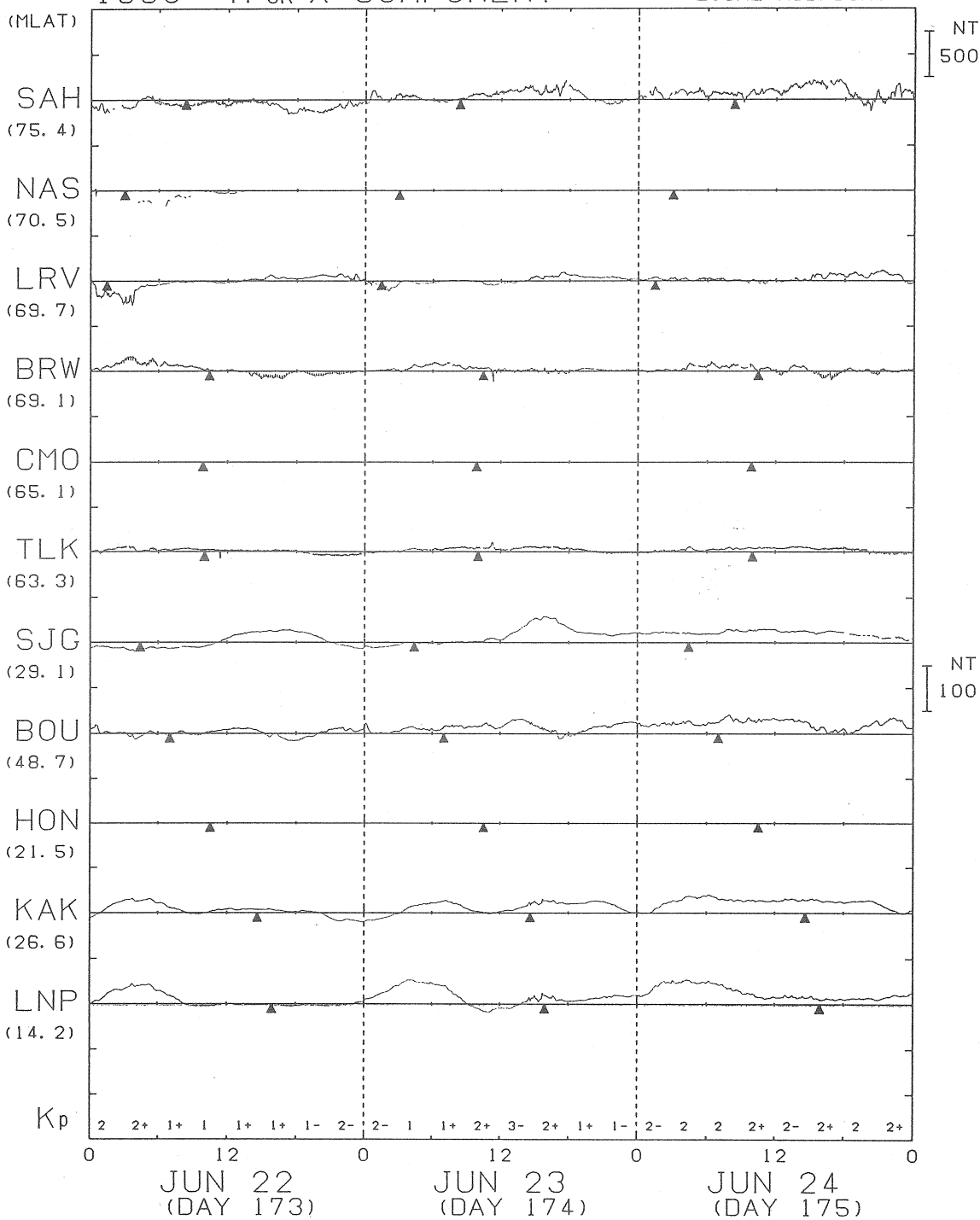
▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

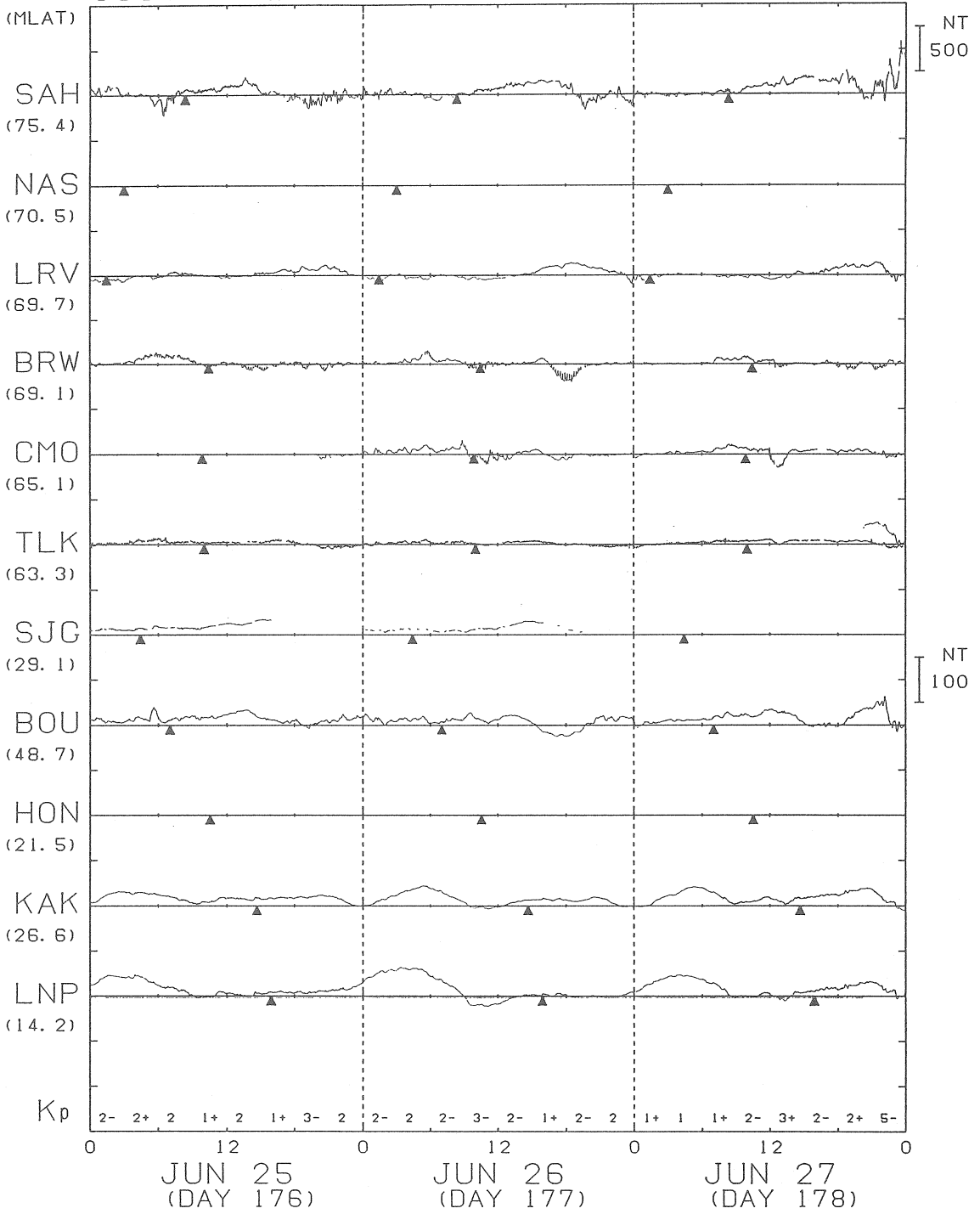
▲ : LOCAL MIDNIGHT



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# 1990 H OR X-COMPONENT

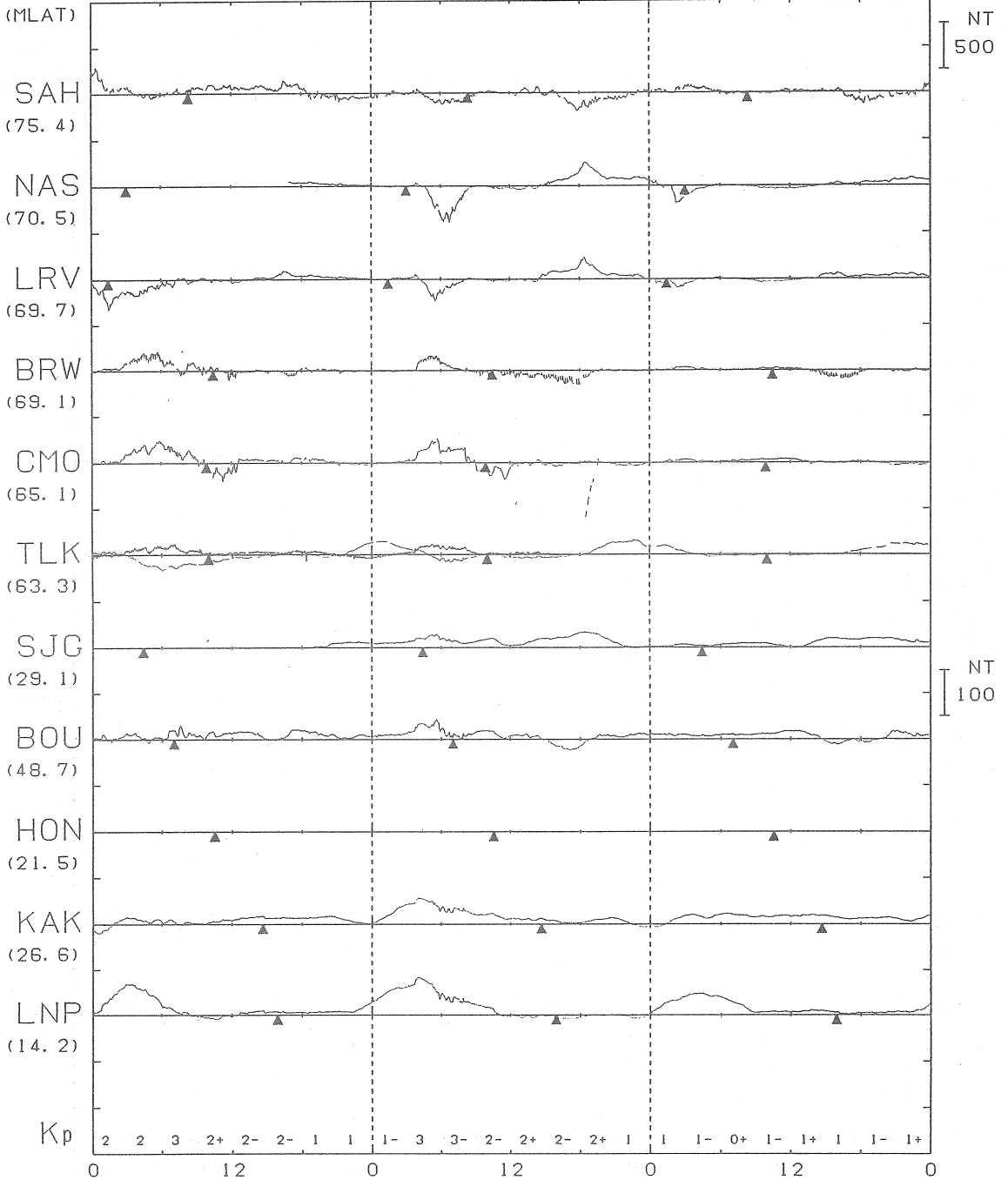
▲ : LOCAL MIDNIGHT



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