

**PROVISIONAL GEOMAGNETIC
DATA PLOTS
No. 4**

(January - June, 1991)

JANUARY 1992

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, 1991 with the Kp index and the international sunspot number. 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, 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 Valentia (VAL) were provided by the Valentia Observatory of Meteorological Service, Ireland. The data from Kakioka (KAK) were provided by the Kakioka Magnetic Observatory. The data from Luning (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 international sunspot number is taken from Solar Indices Bulletin published from National Geophysical Data Center, Boulder.

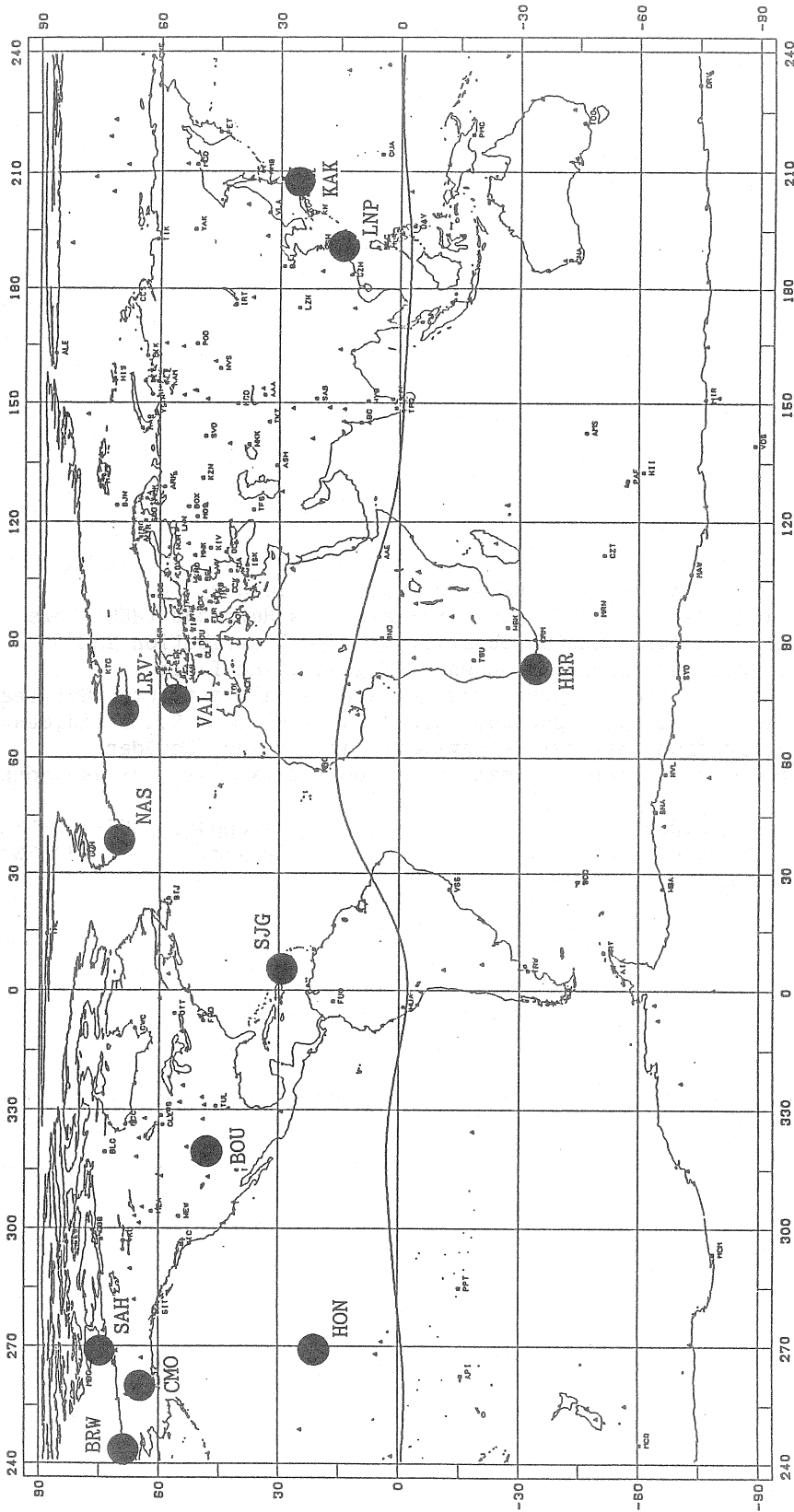
The users who need further information or the digital data, please consult to:

WDC-C2 for Geomagnetism,	Telephone: 075-753-3929
Faculty of Science, Kyoto University,	Facsimile: 075-722-7884
Kyoto 606, Japan.	

Table 1.

STATION NAME	ABB CODE	GEOGRAPHIC		GEOMAGNETIC		INVARIANT	PLOT
		LAT.	LONG.	LAT.	LONG.	LAT.	SCALE
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	"
Valentia	VAL	51.9	349.8	56.2	74.8	51.0	100nT/div
San Juan	SJG	18.4	293.9	29.1	5.2	32.5	"
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	"
Luning	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 COORDINATE (1985.0)

—— DIP EQUATOR AT 100 KM ALTITUDE

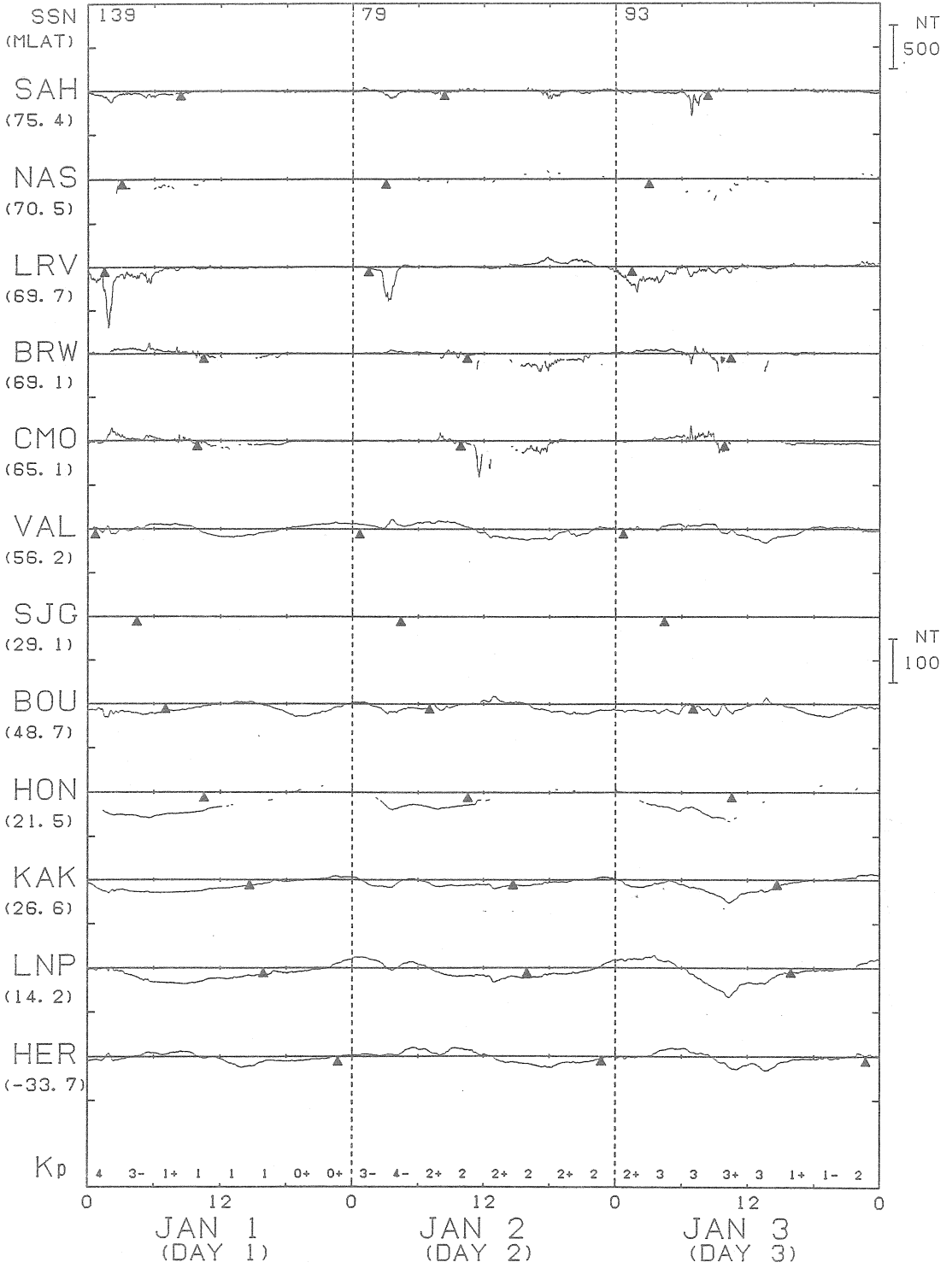
Fig.1 Data are obtained at the observatories shown by the solid circles.

JANUARY 1991

(DAY 001 - 031)

1991 H OR X-COMPONENT

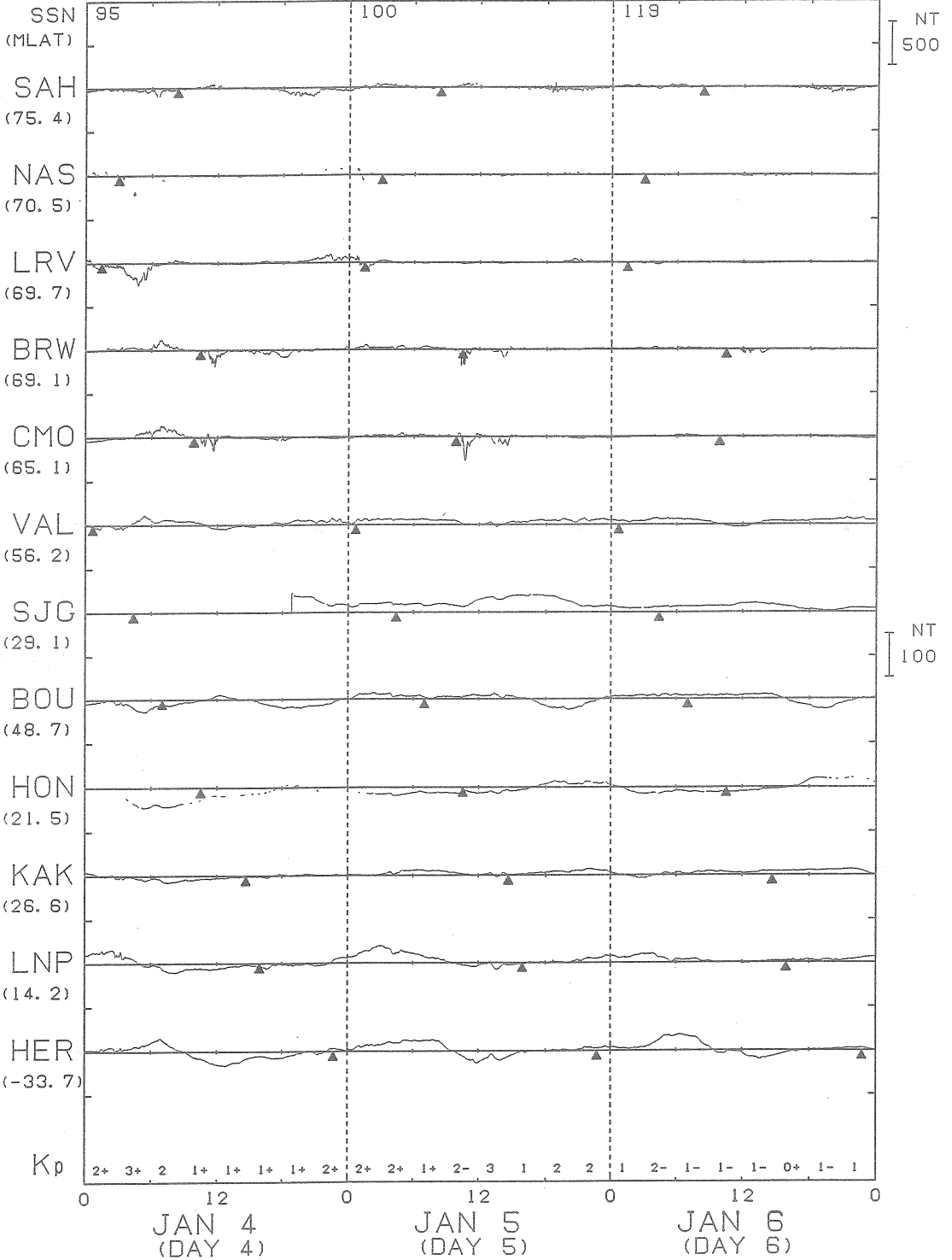
▲ : LOCAL MIDNIGHT



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

1991 H OR X-COMPONENT

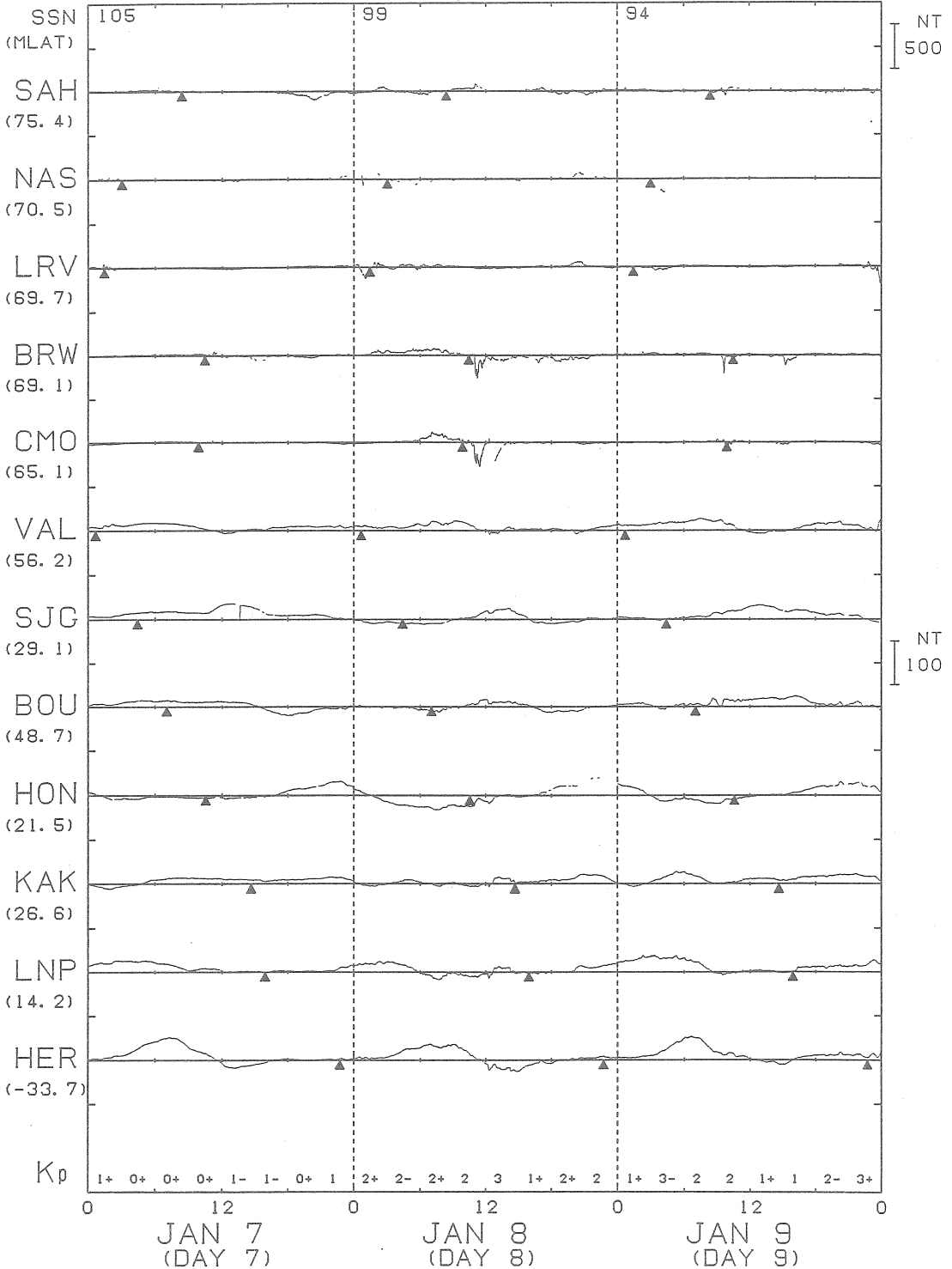
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1991 H_{0R} X-COMPONENT

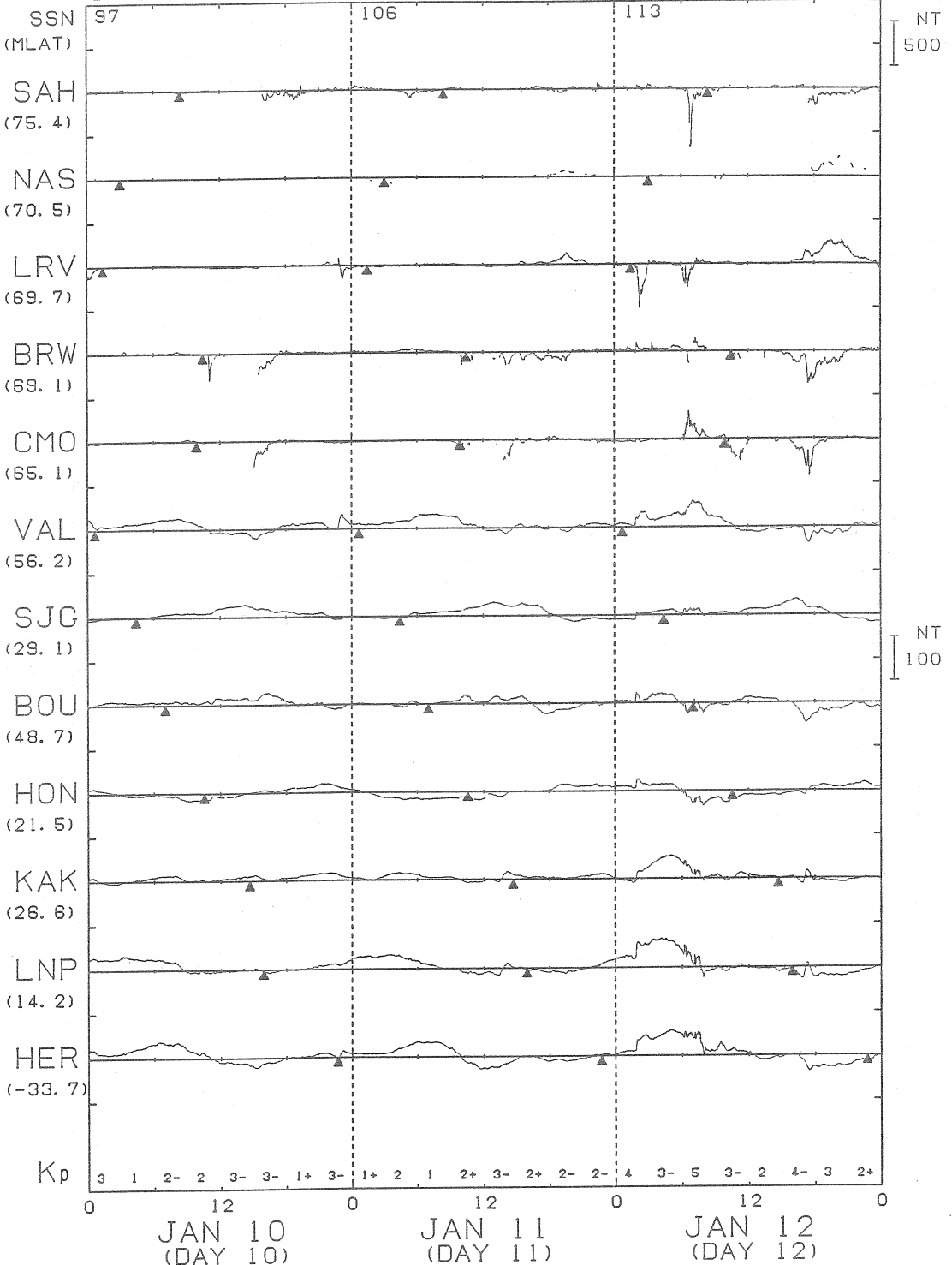
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1991 H OR X-COMPONENT

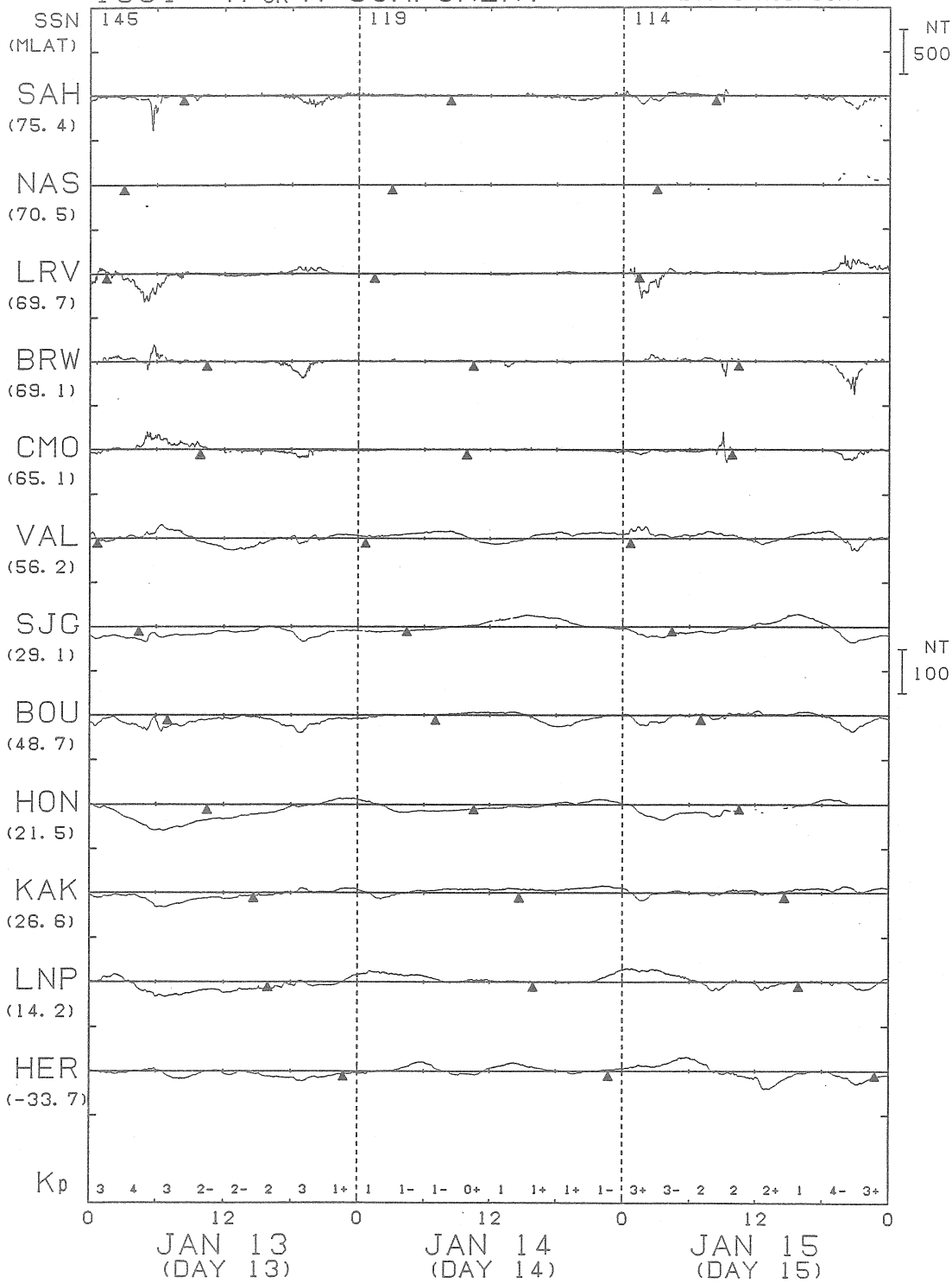
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1991 H OR X-COMPONENT

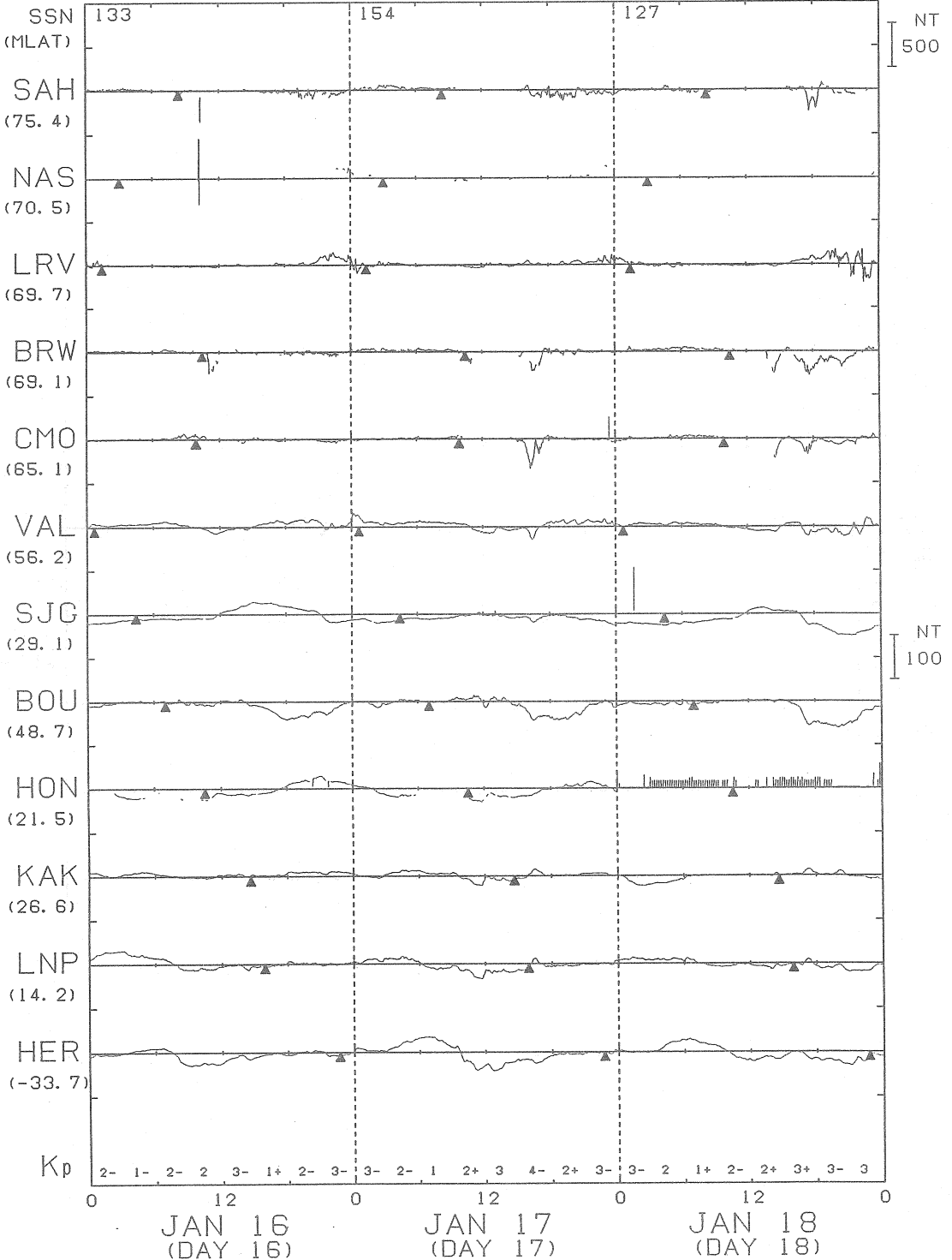
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1991 H OR X-COMPONENT

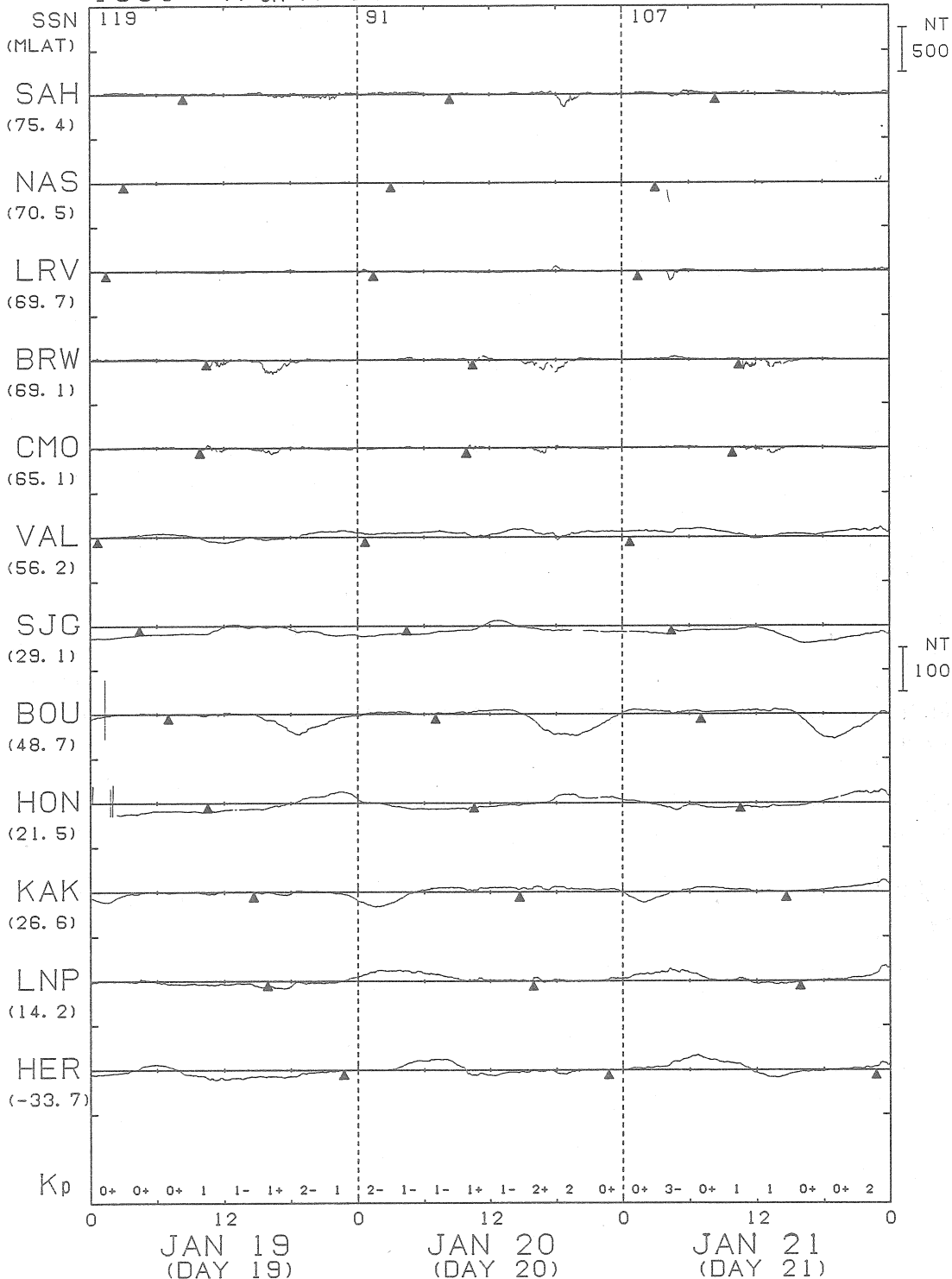
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1991 H OR X-COMPONENT

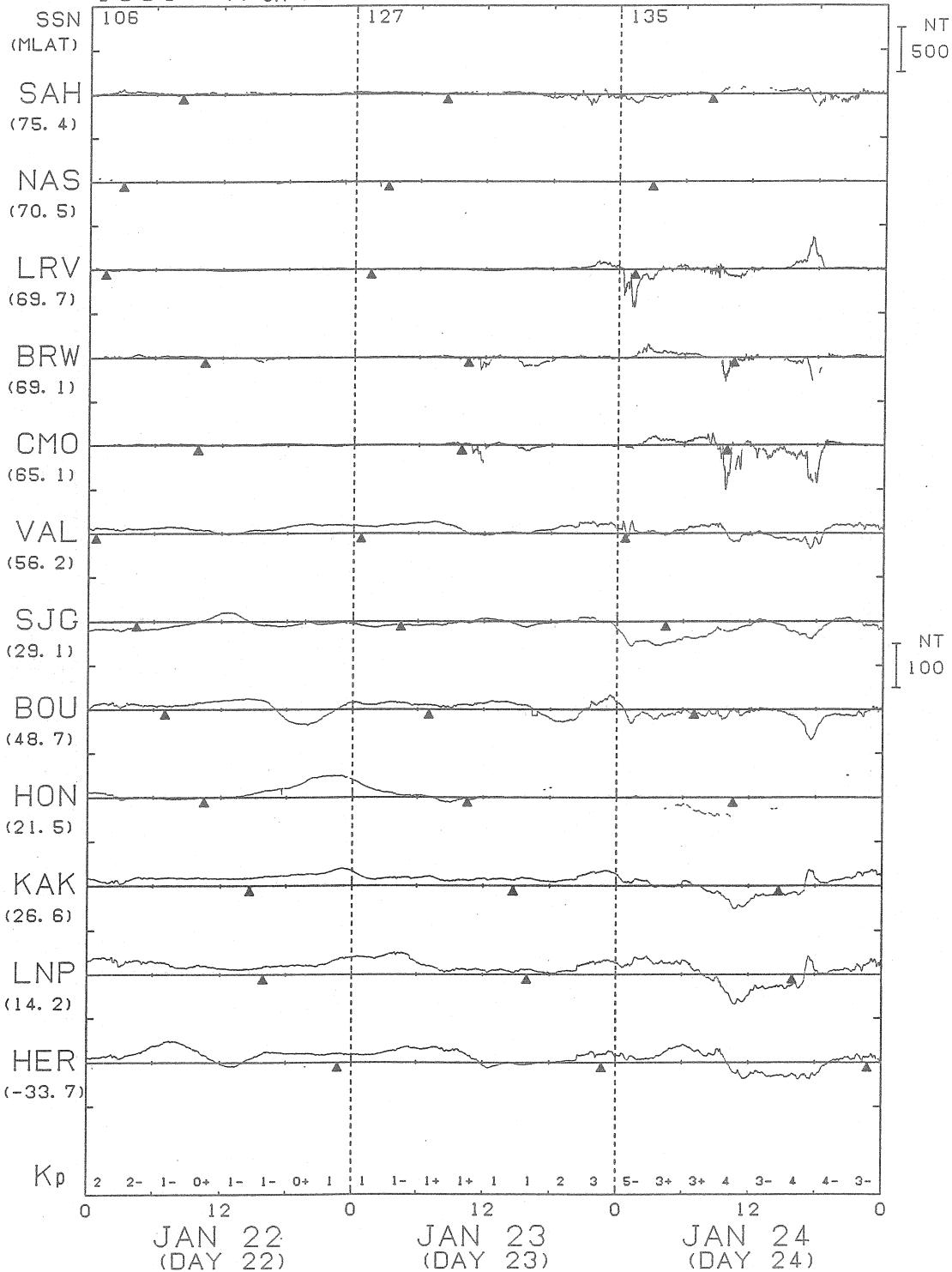
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1991 H OR X-COMPONENT

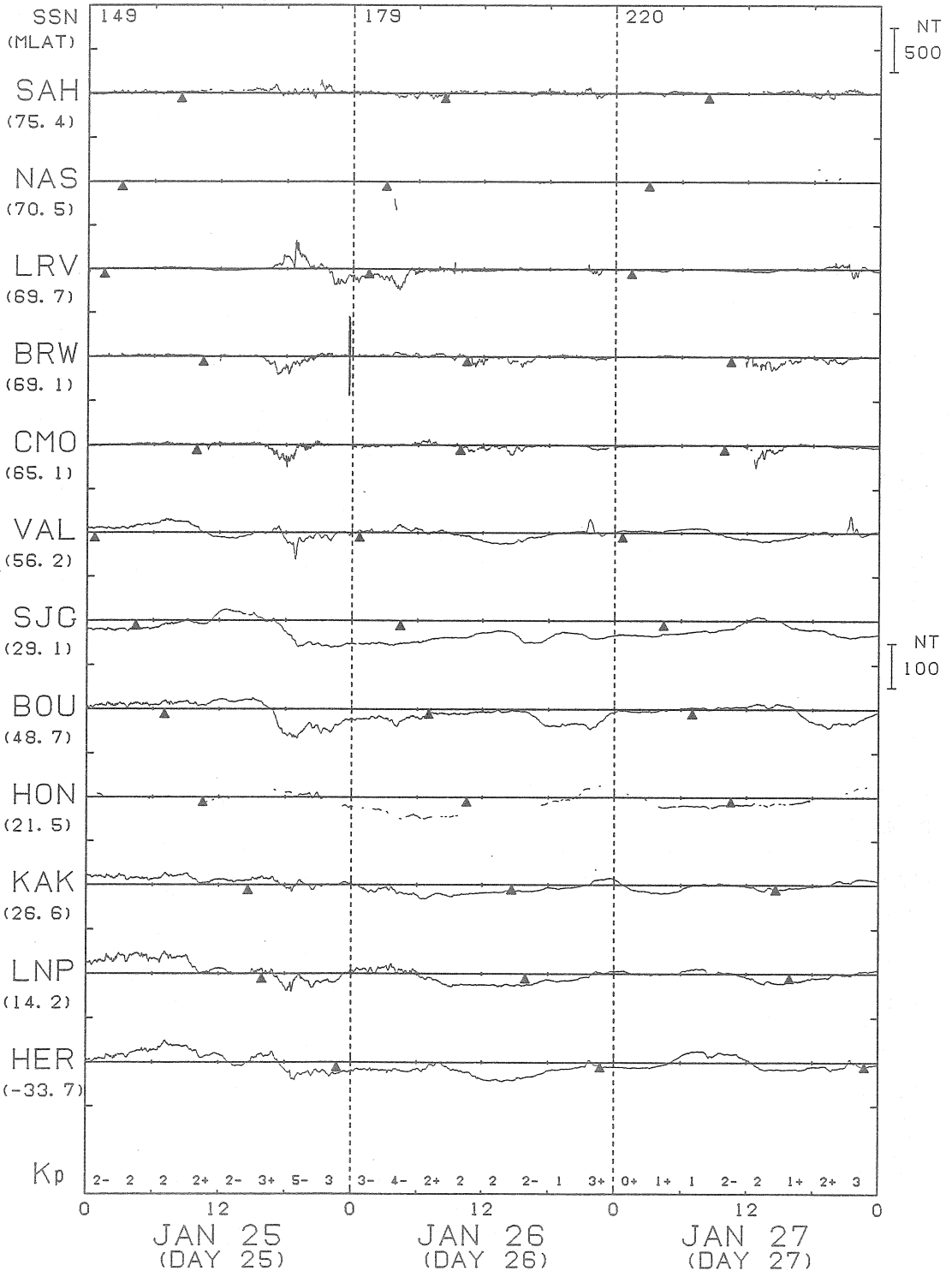
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1991 H OR X-COMPONENT

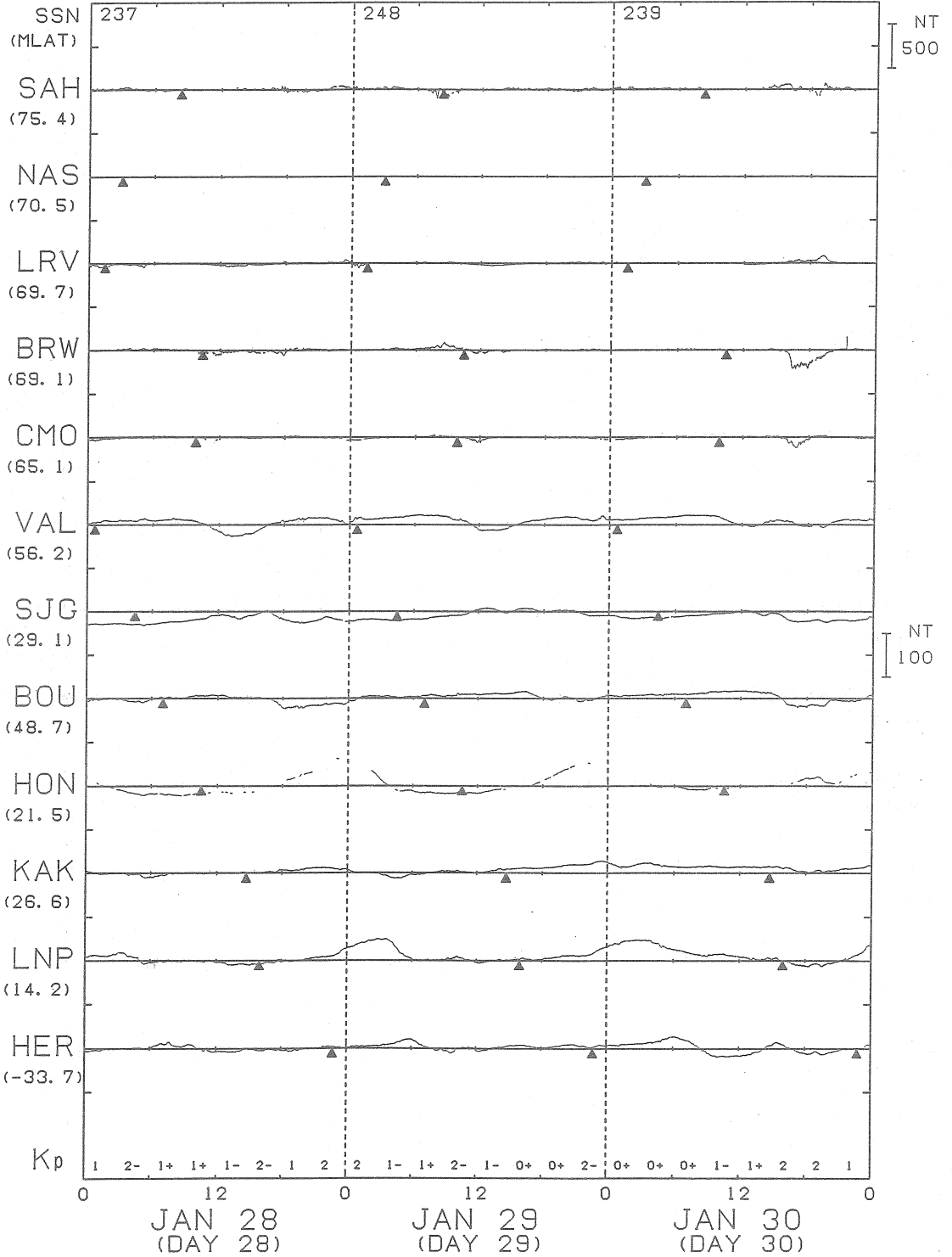
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1991 H OR X-COMPONENT

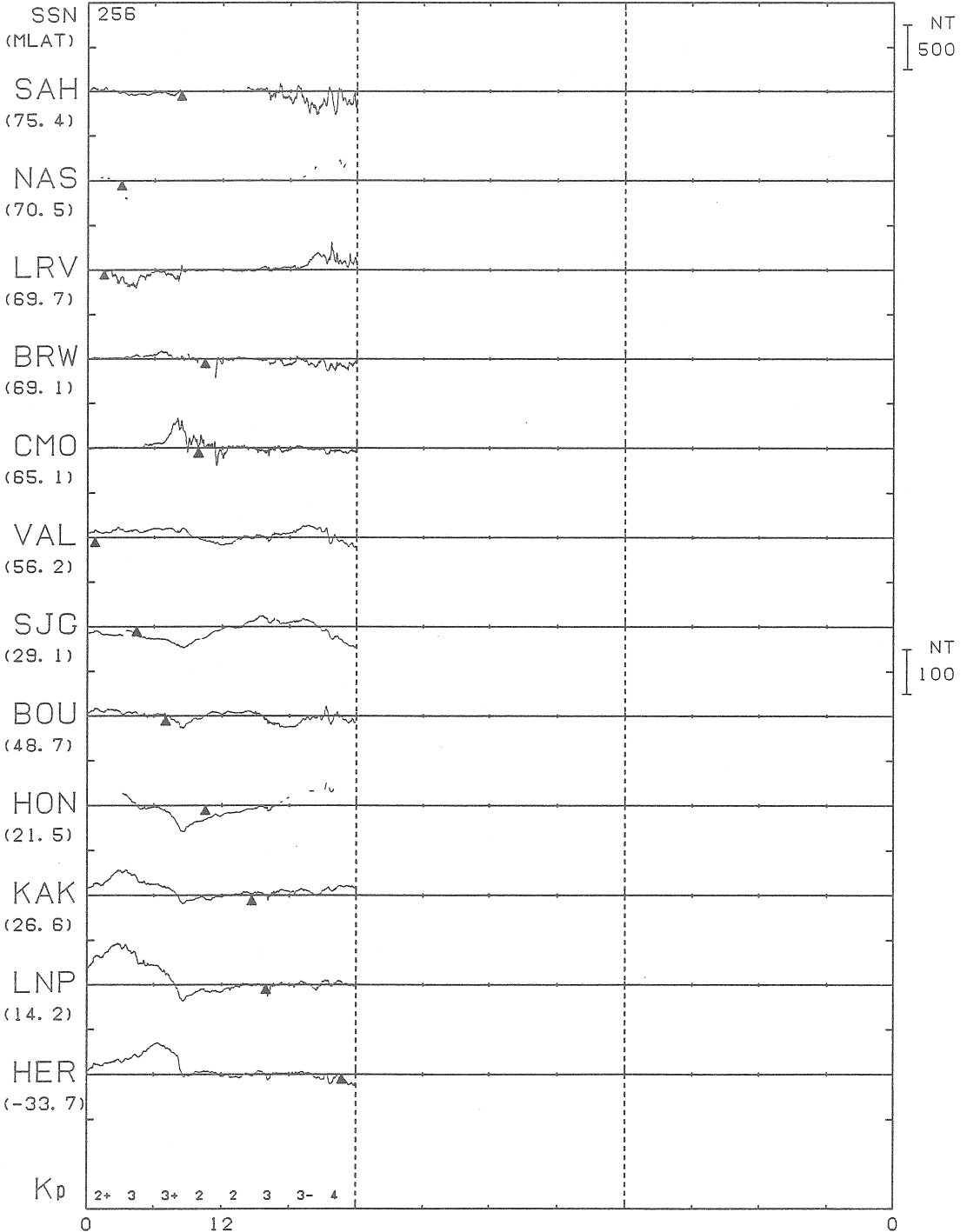
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



JAN 31
(DAY 31)

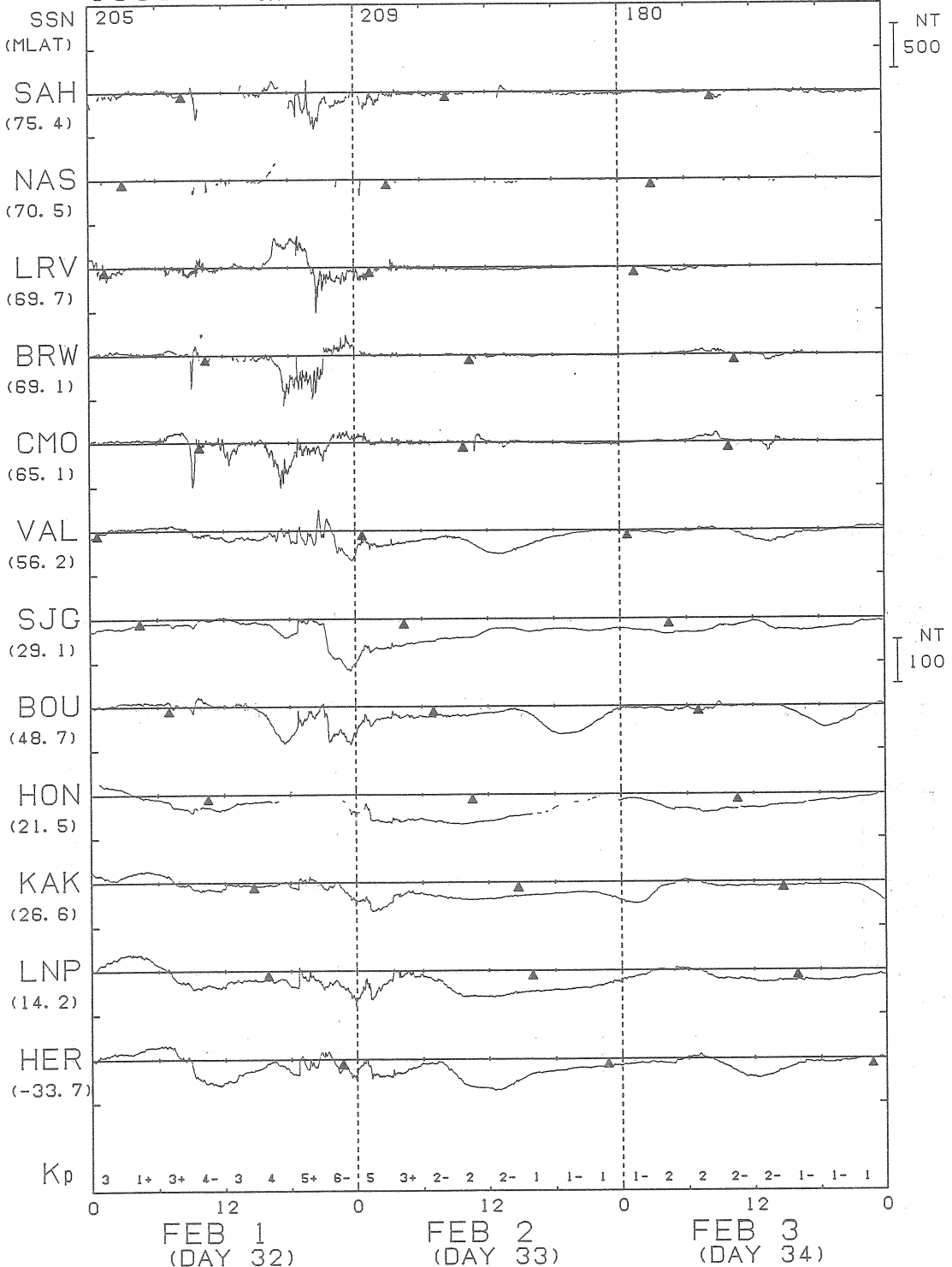
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FEBRUARY 1991

(DAY 032 - 059)

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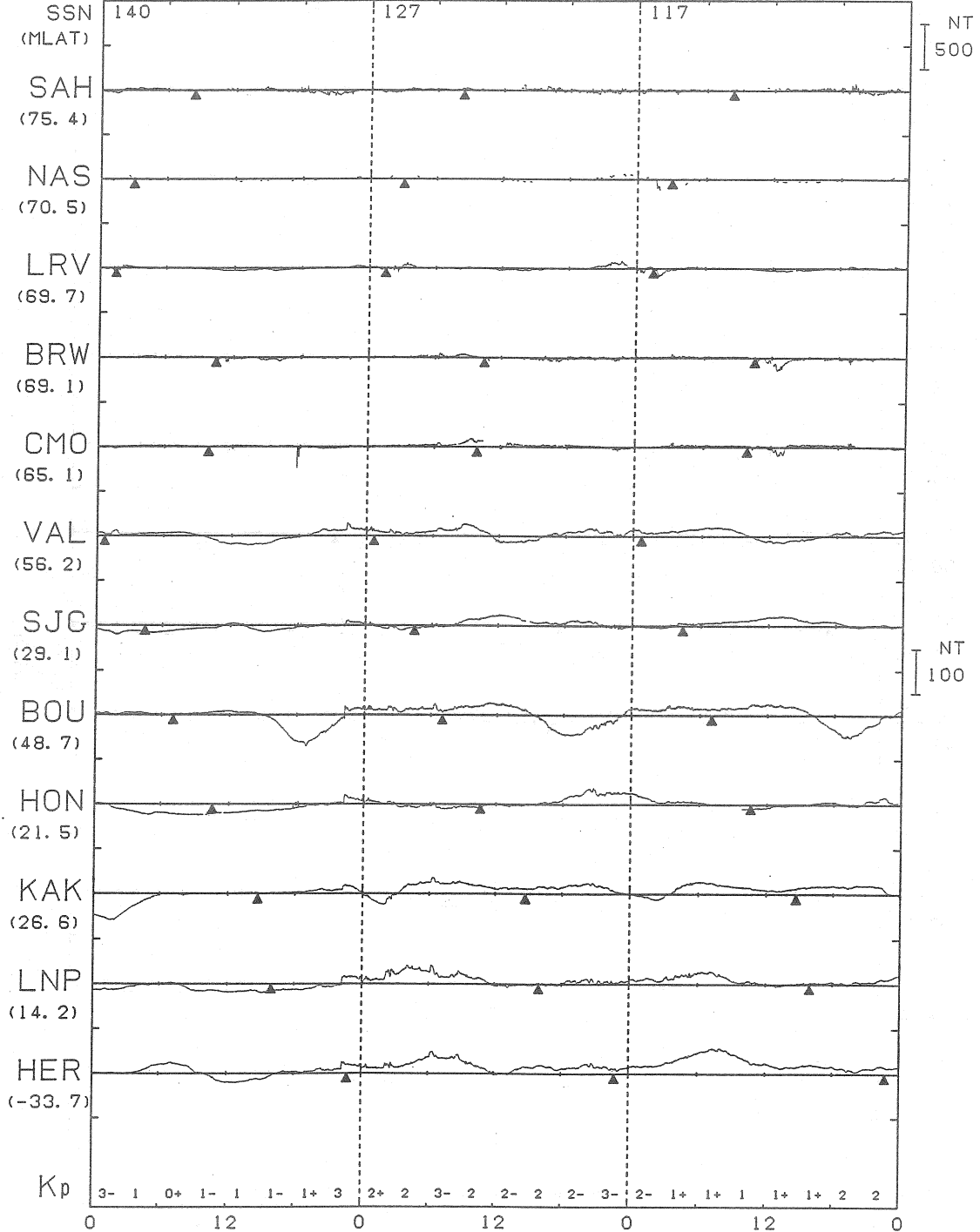
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* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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1991 H OR X-COMPONENT

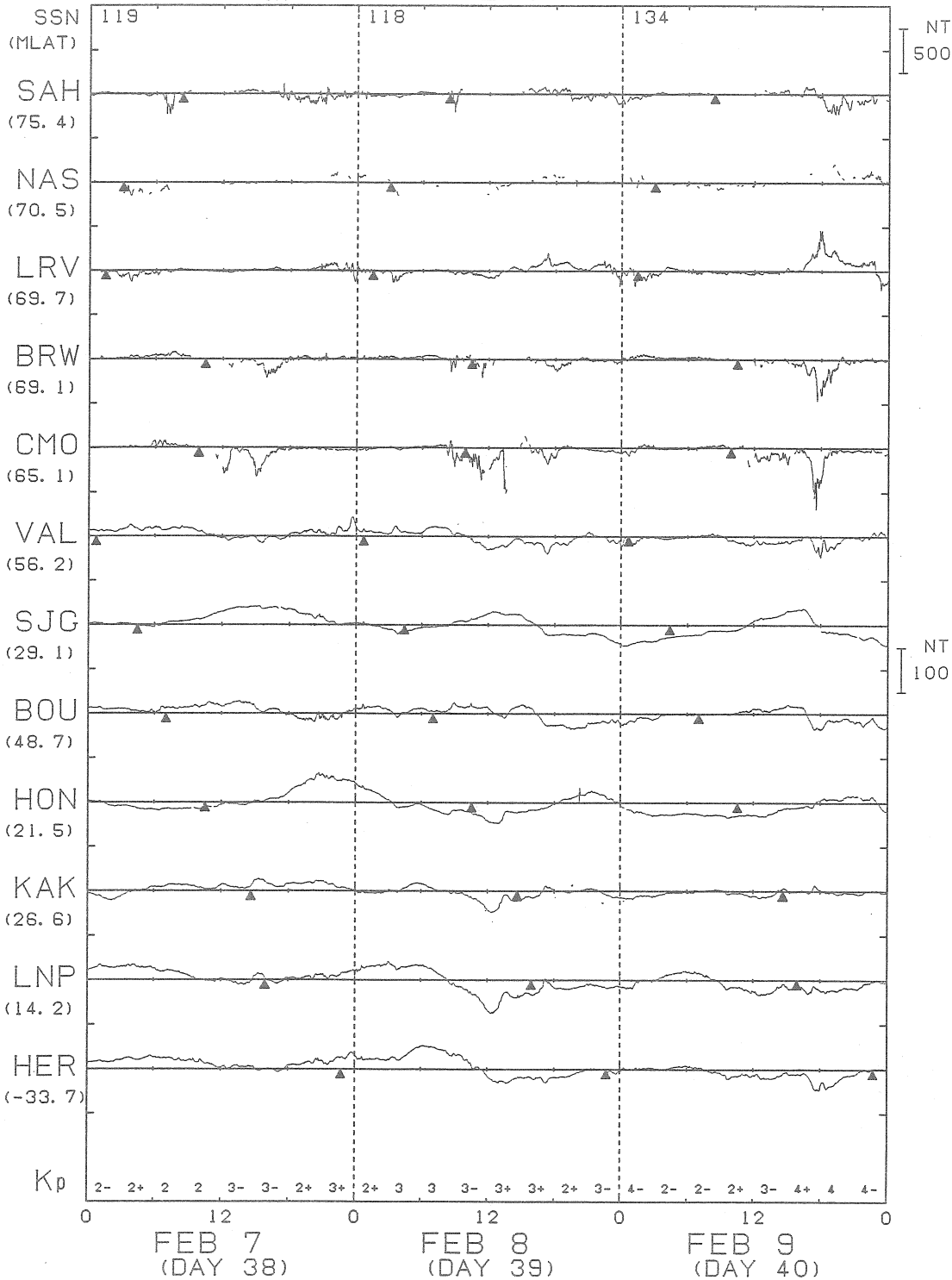
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1991 H OR X-COMPONENT

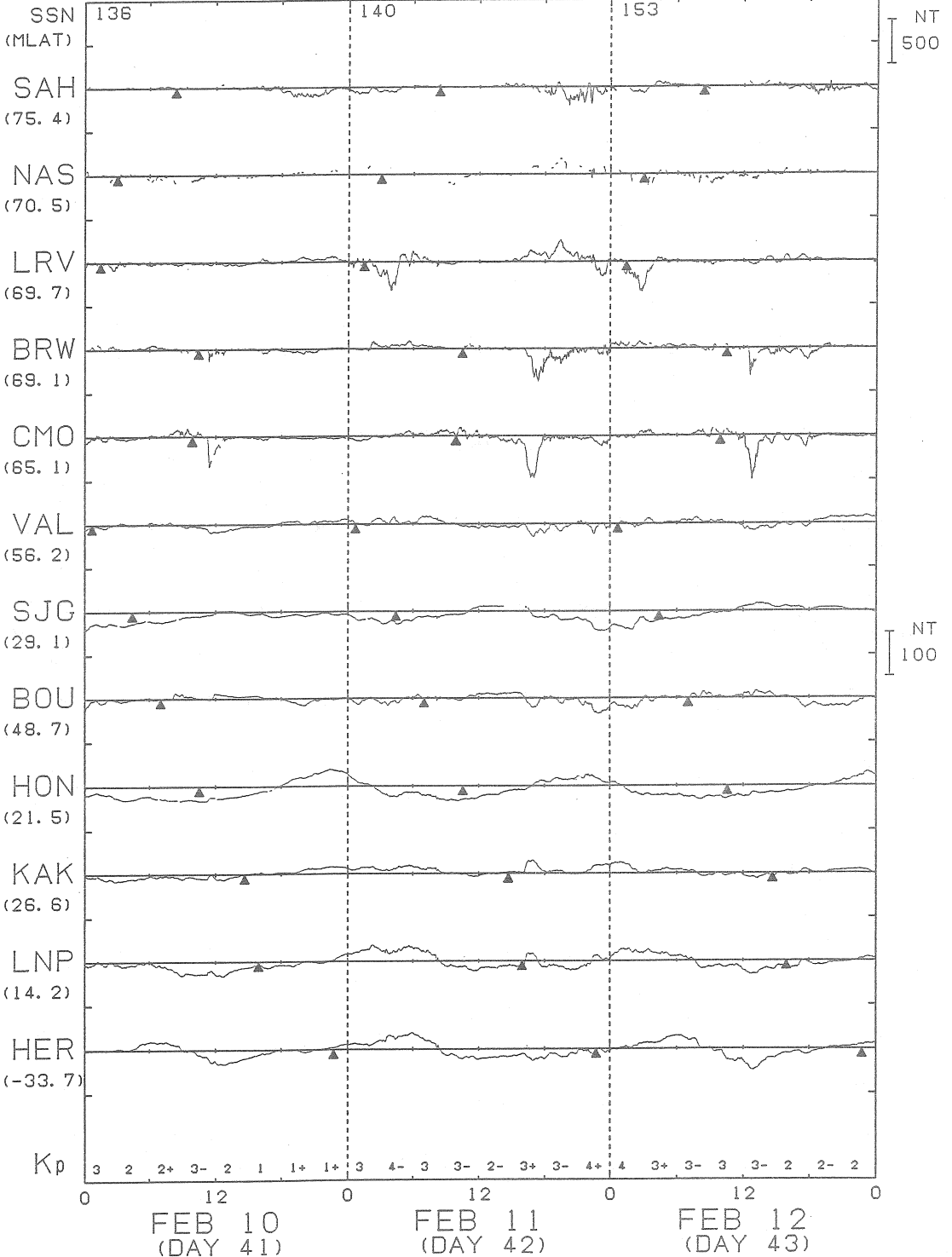
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1991 H OR X-COMPONENT

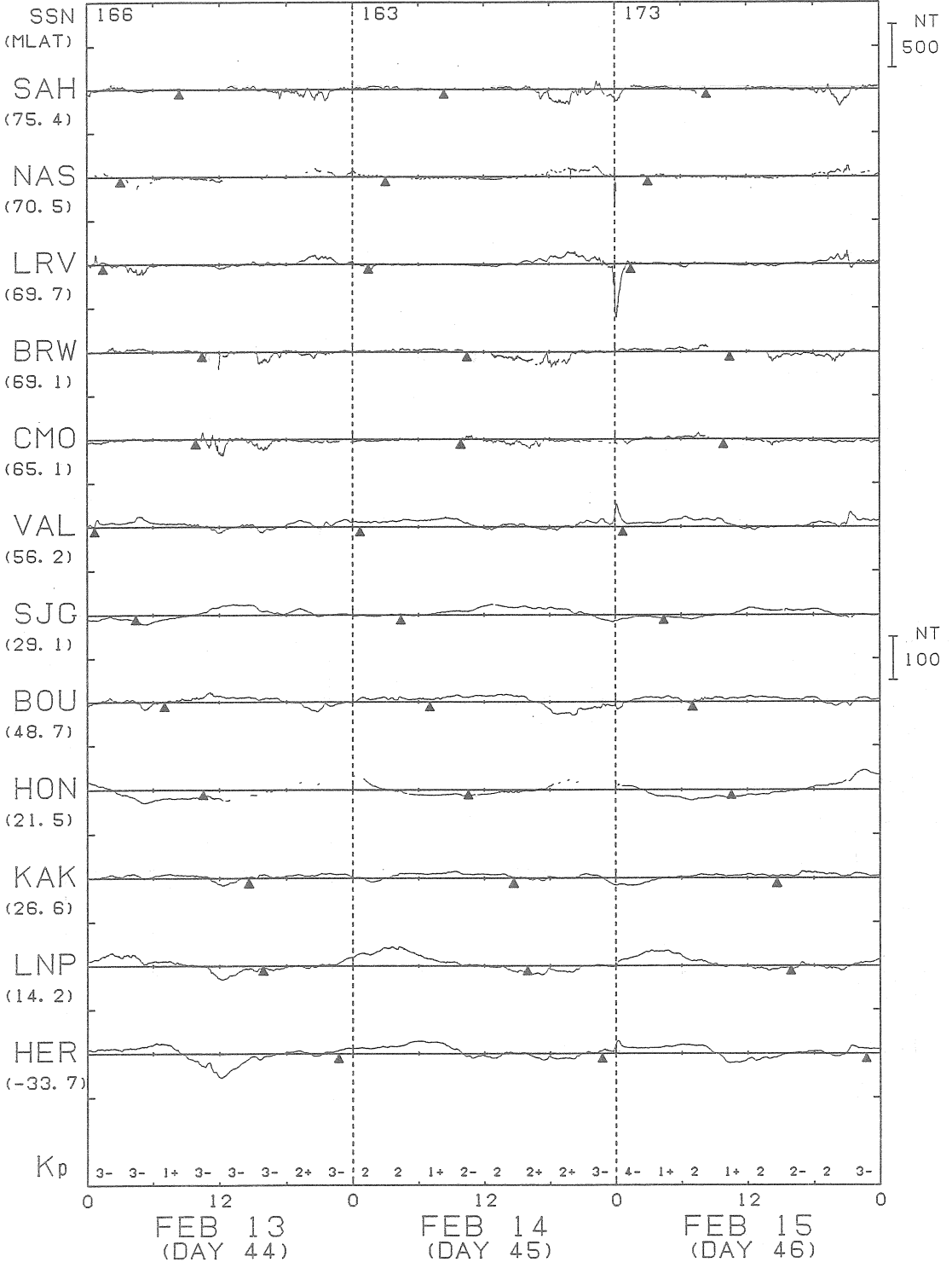
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1991 H OR X-COMPONENT

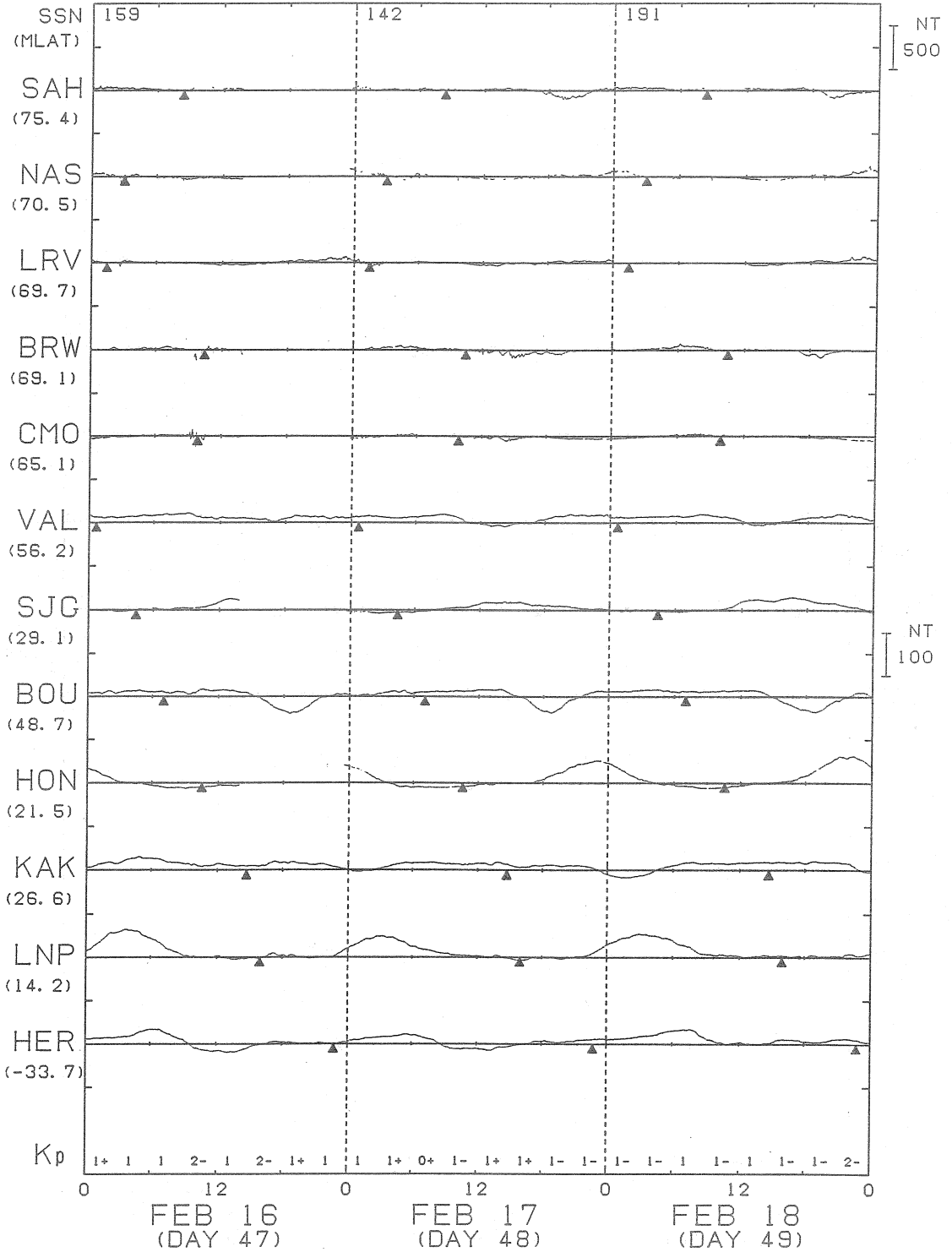
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1991 H OR X-COMPONENT

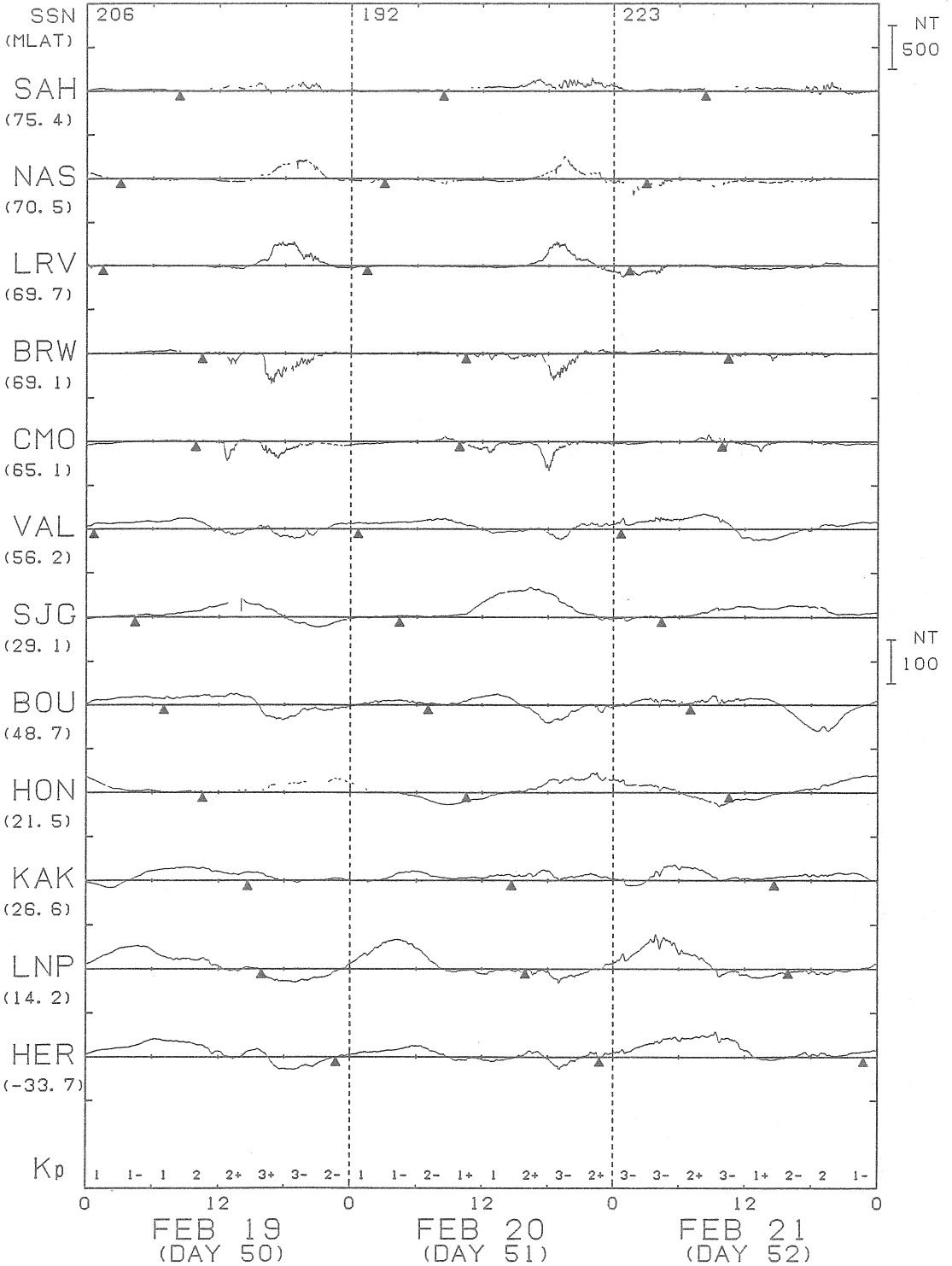
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1991 H OR X-COMPONENT

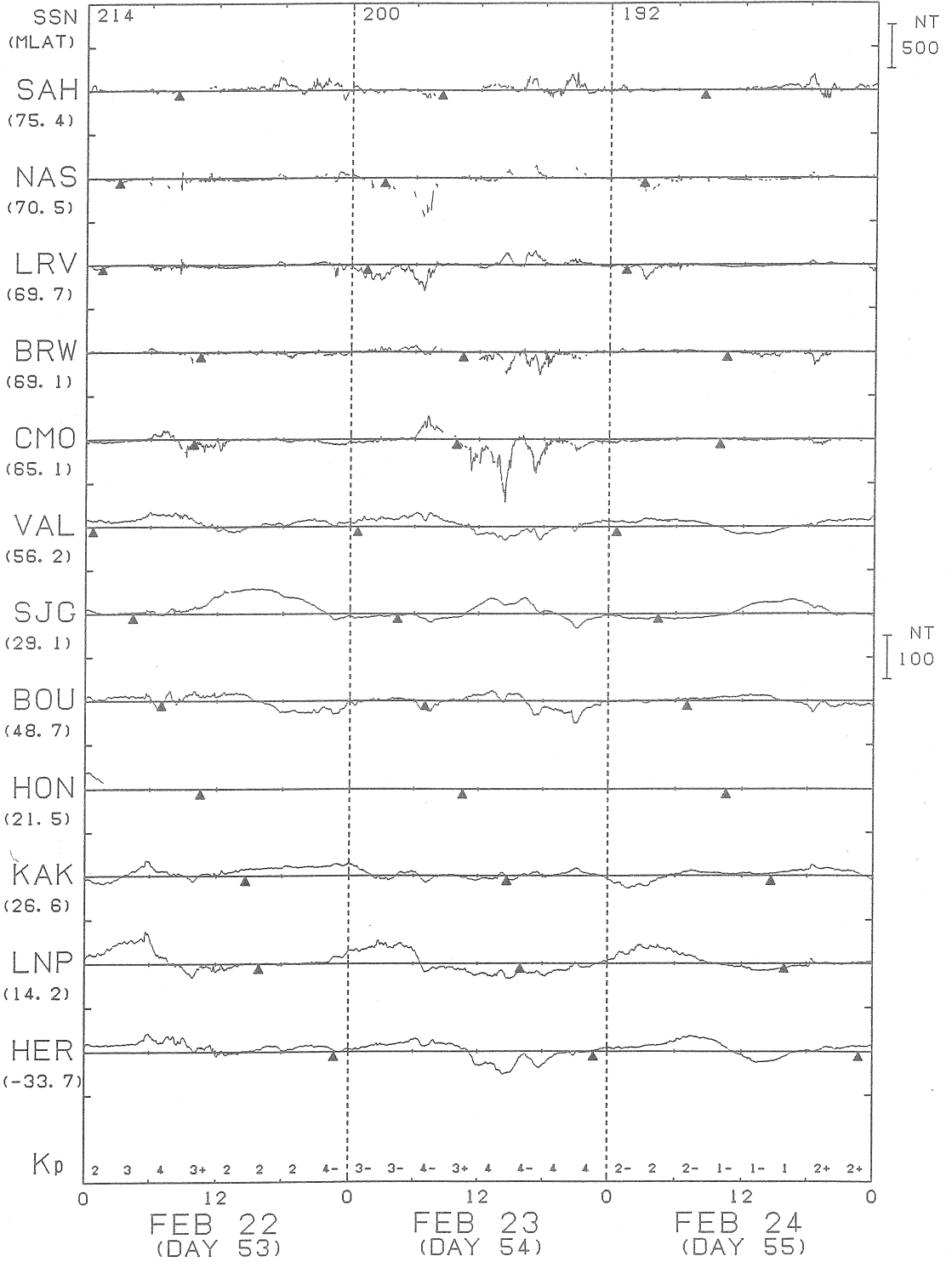
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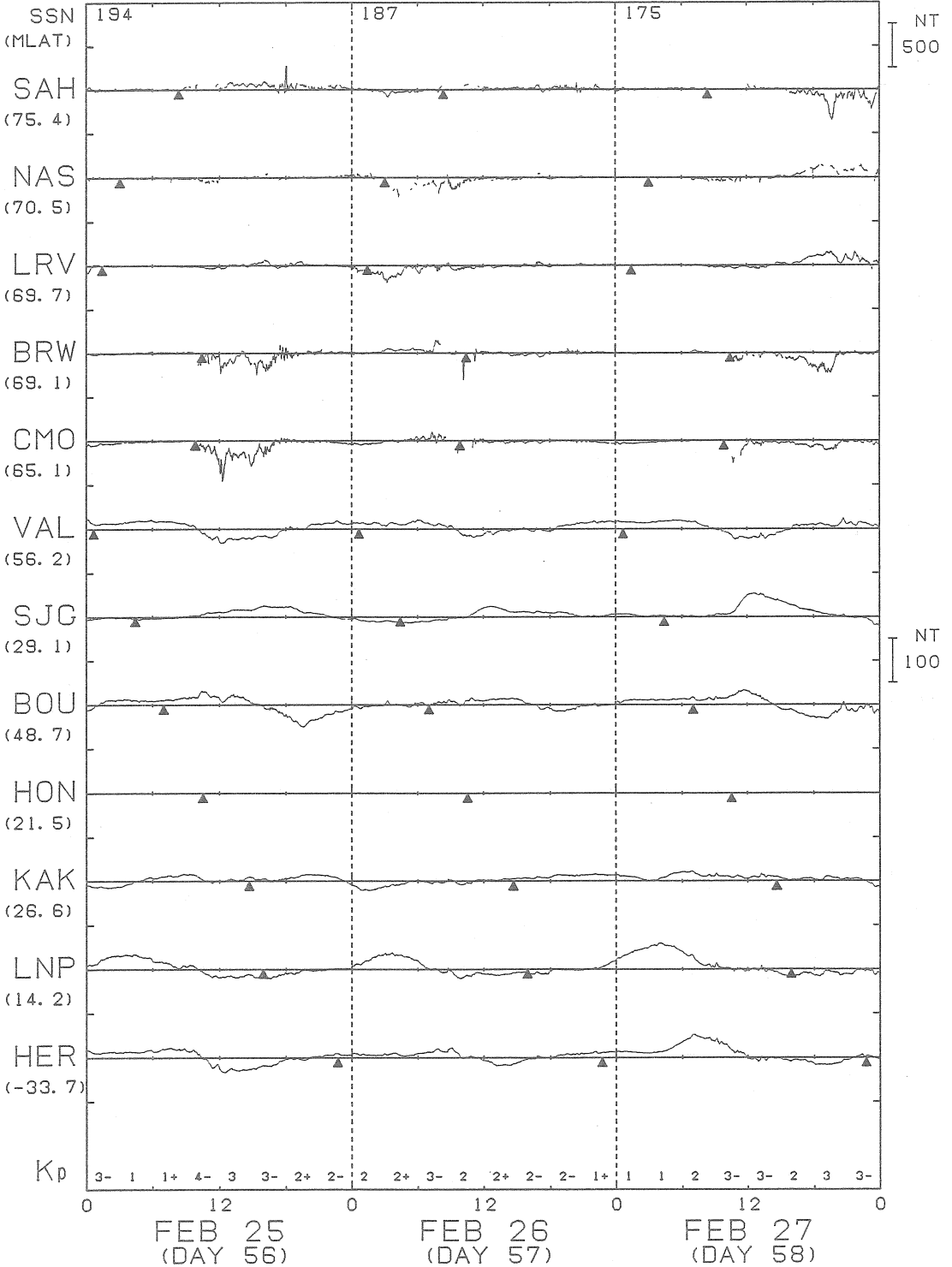
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1991 H OR X-COMPONENT

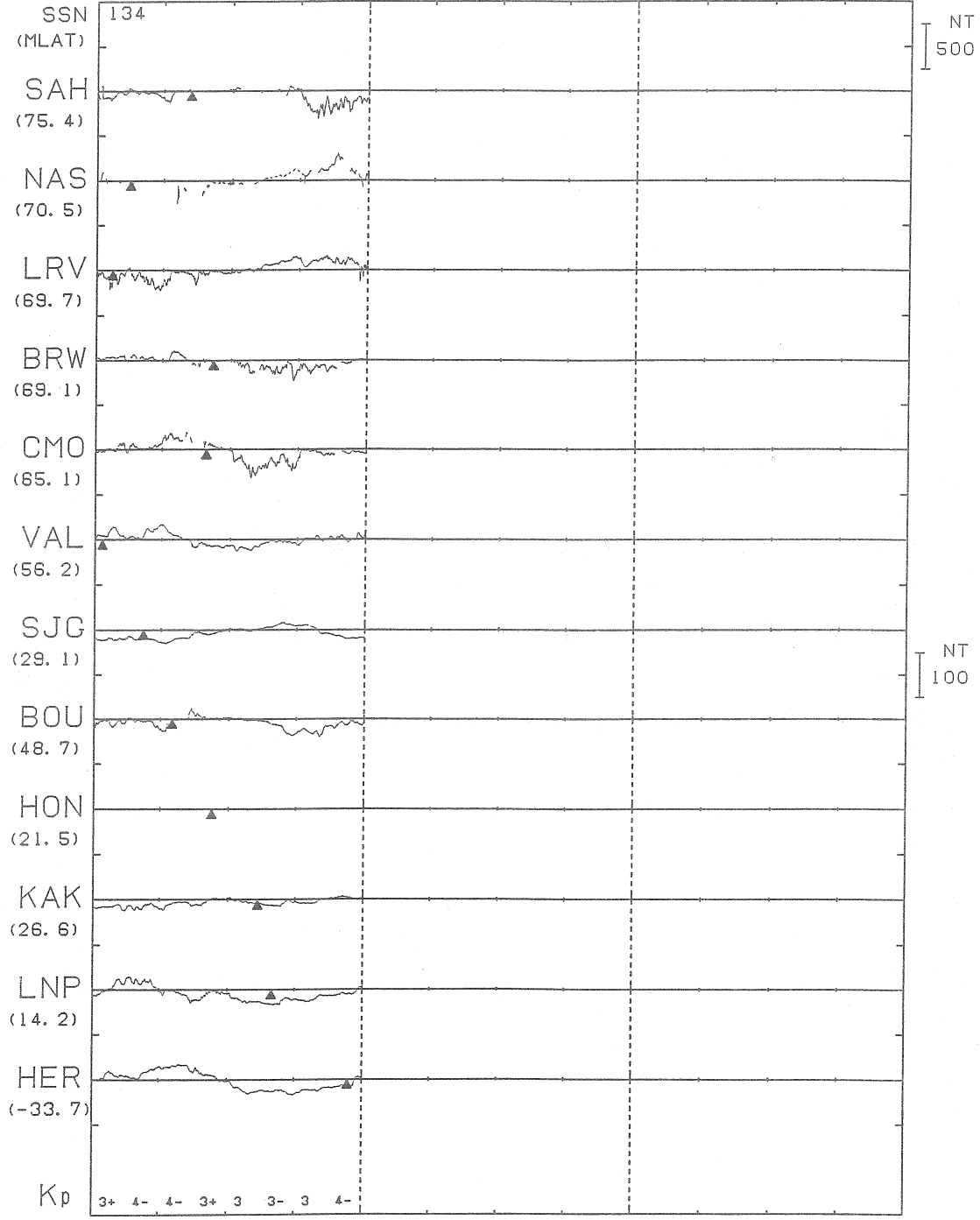
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1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



FEB 28
(DAY 59)

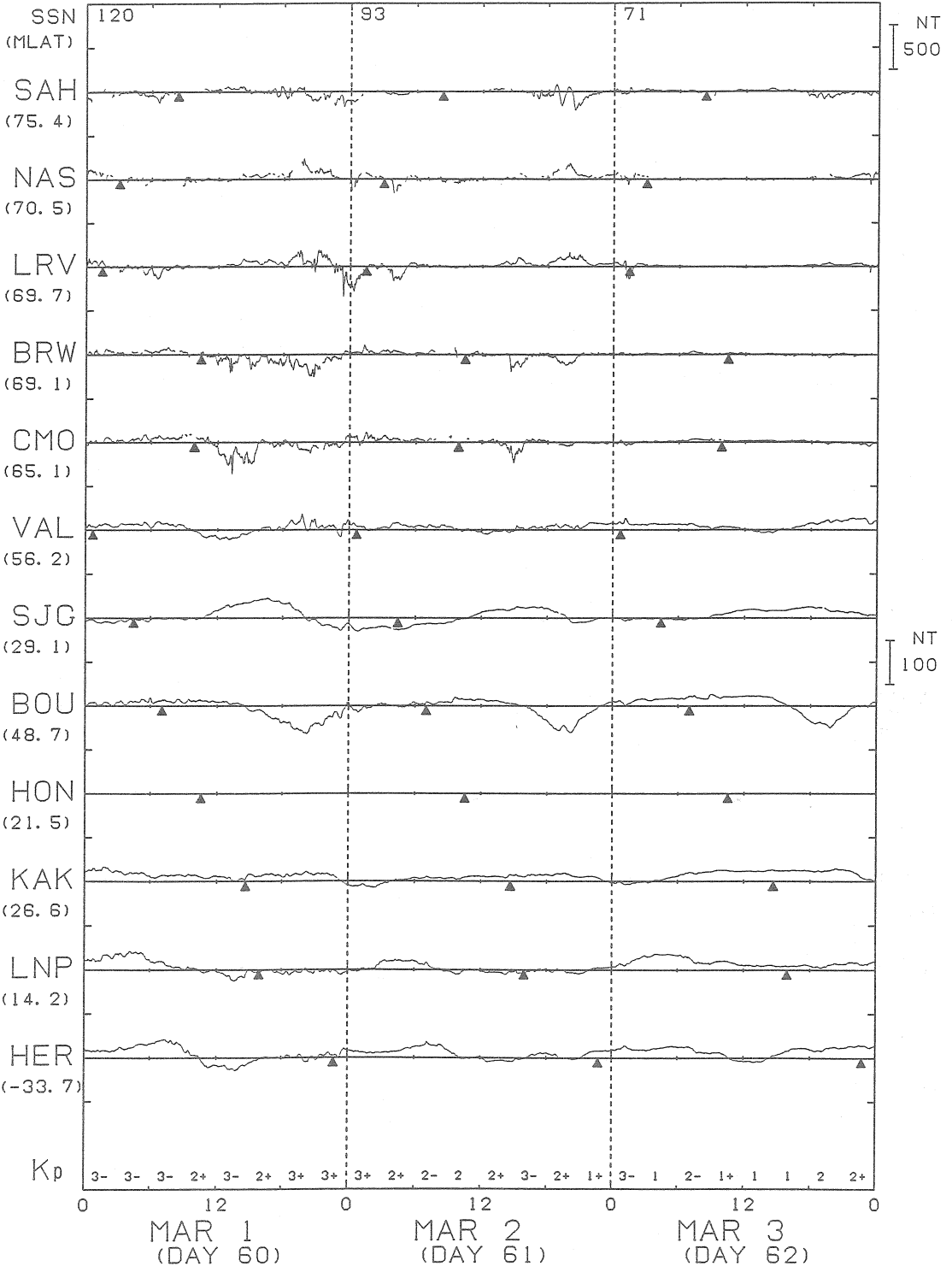
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MARCH 1991

(DAY 060 - 090)

1991 H OR X-COMPONENT

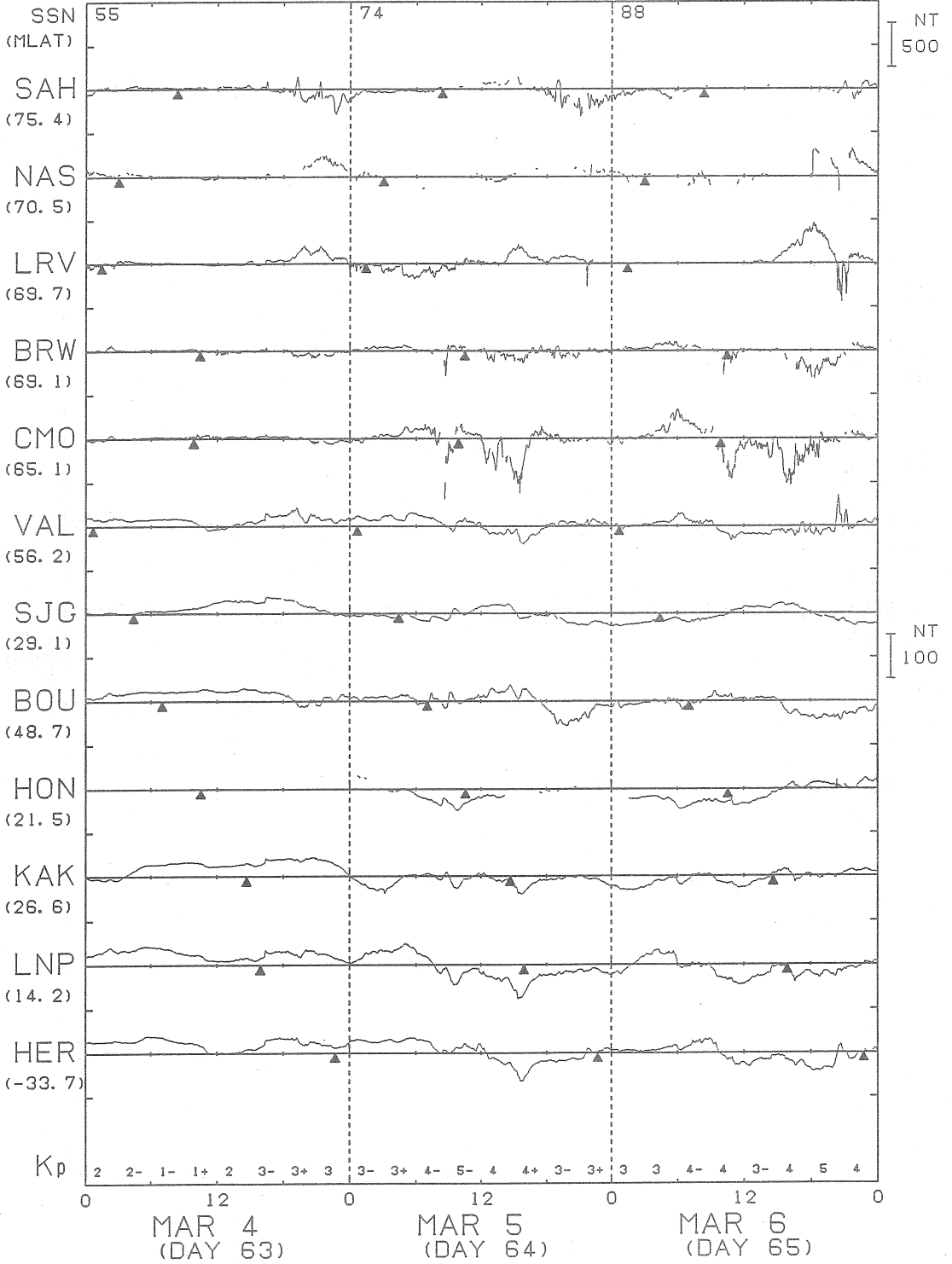
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1991 H OR X-COMPONENT

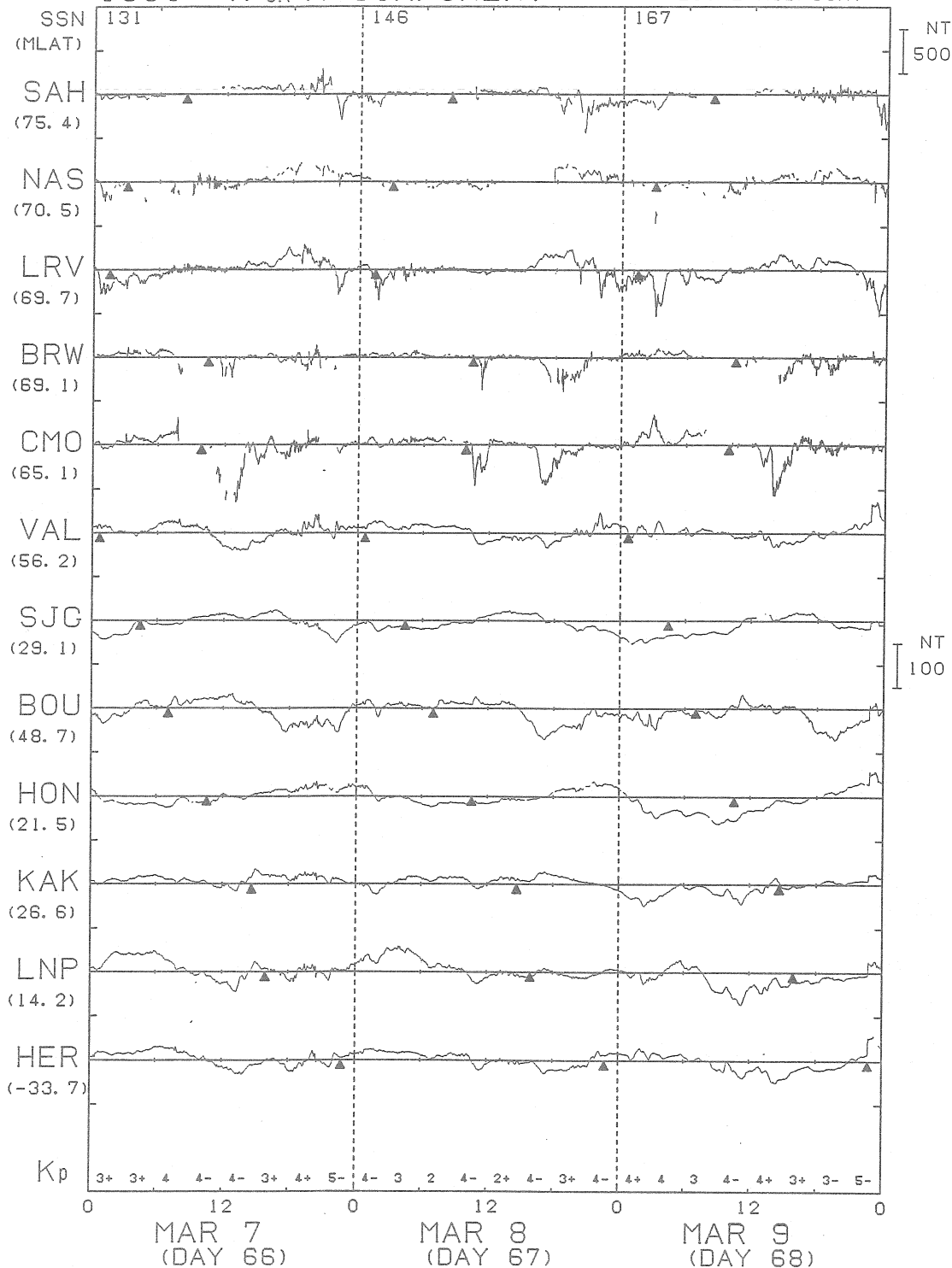
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1991 H OR X-COMPONENT

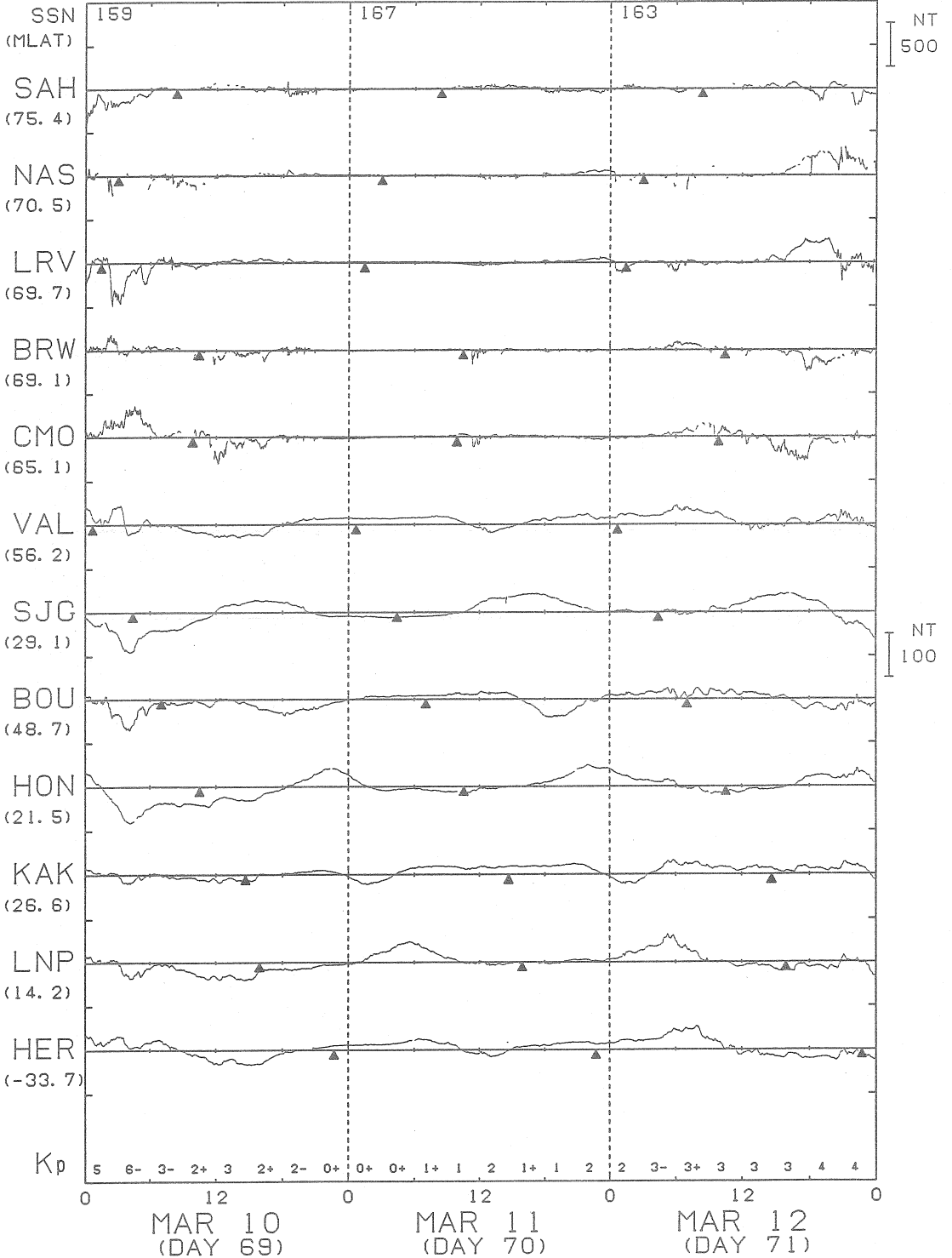
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1991 H OR X-COMPONENT

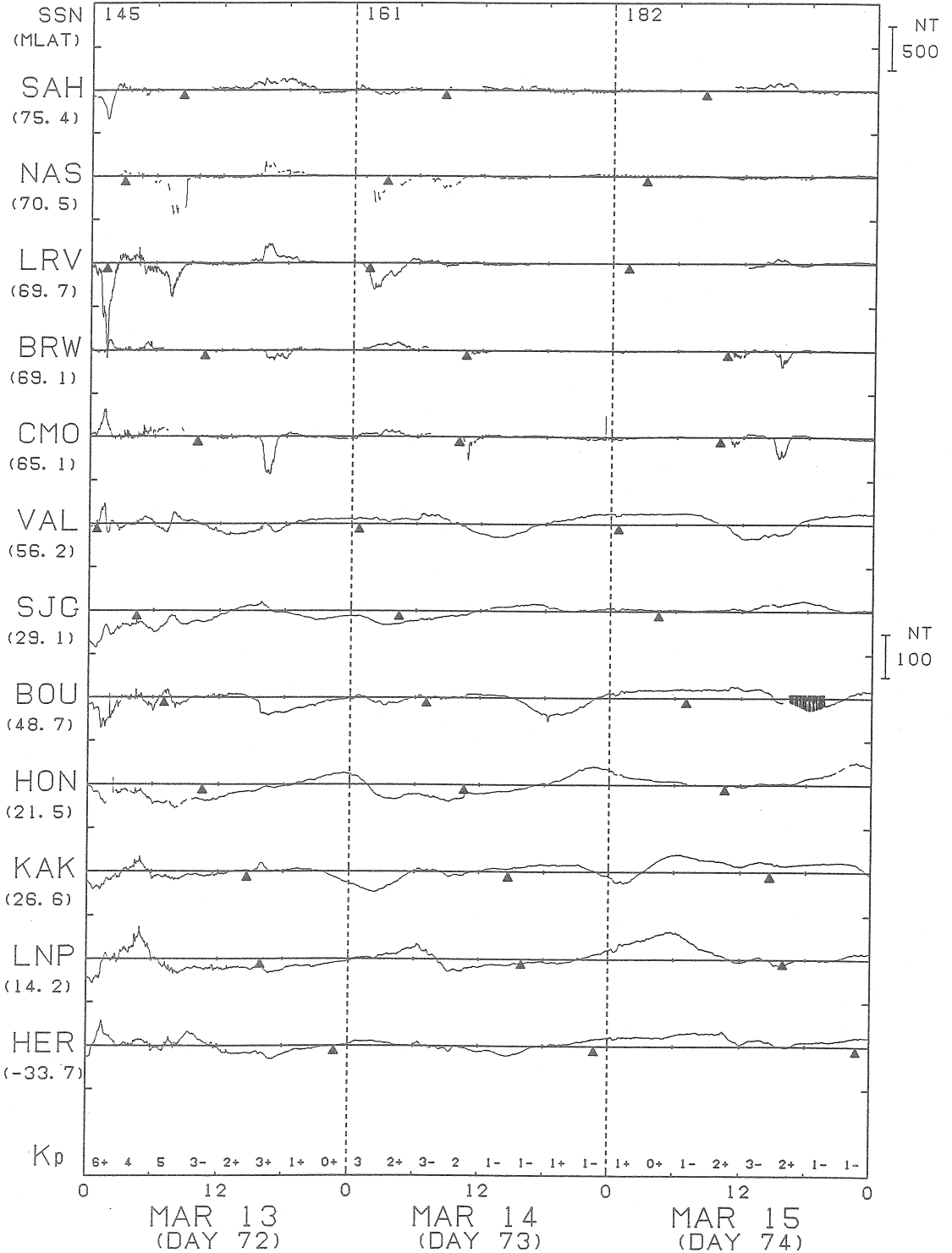
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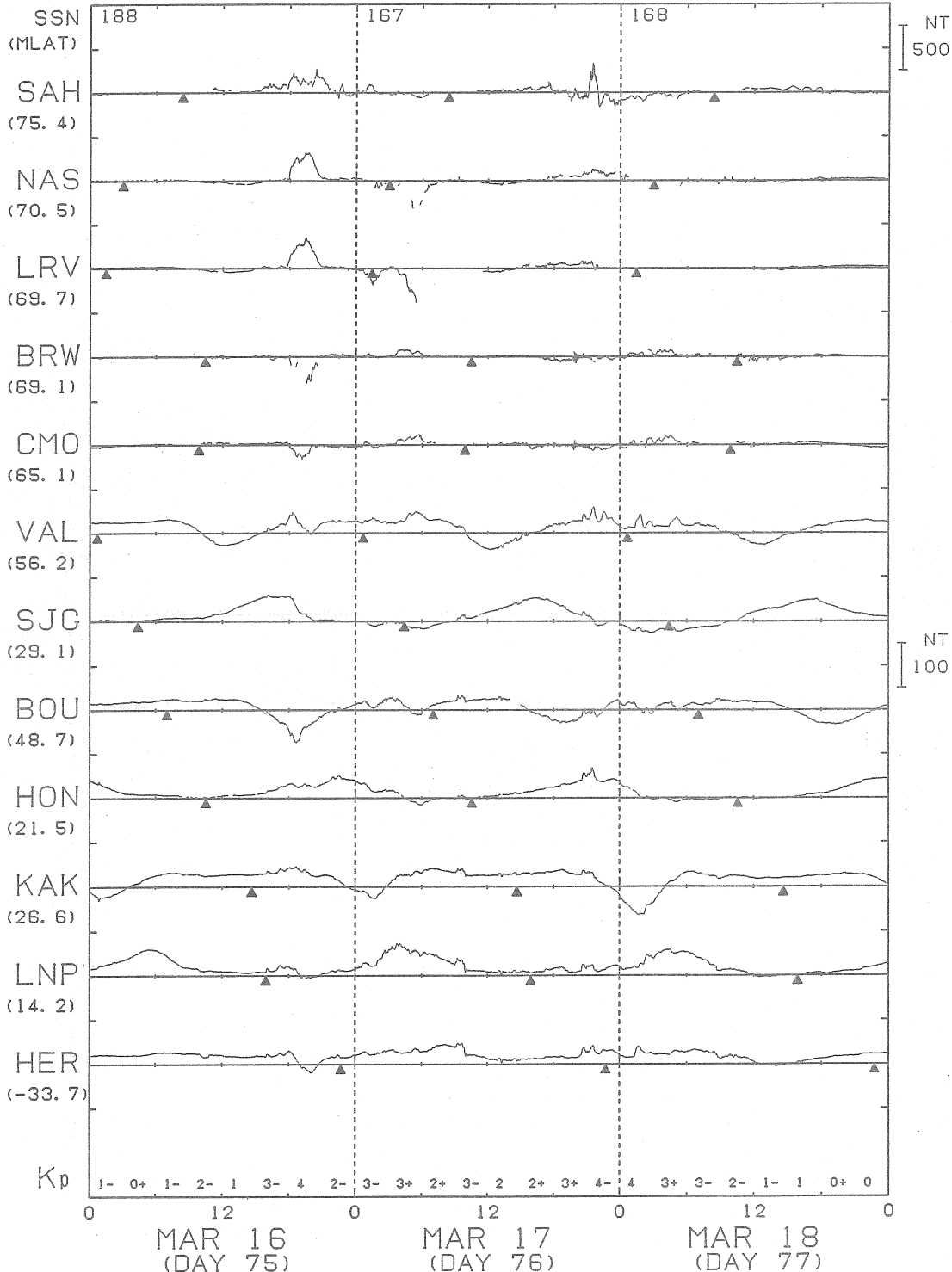
1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



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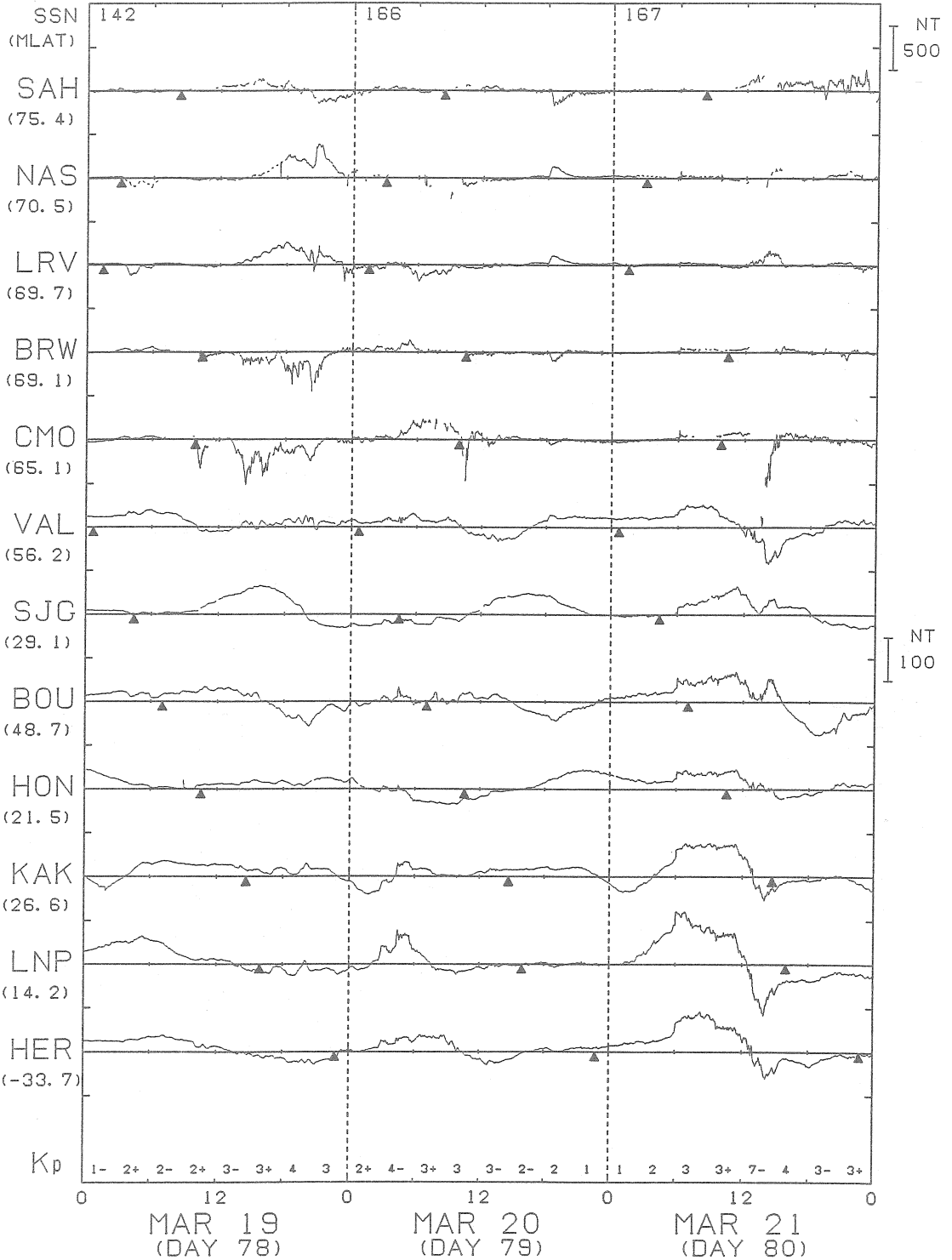
1991 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

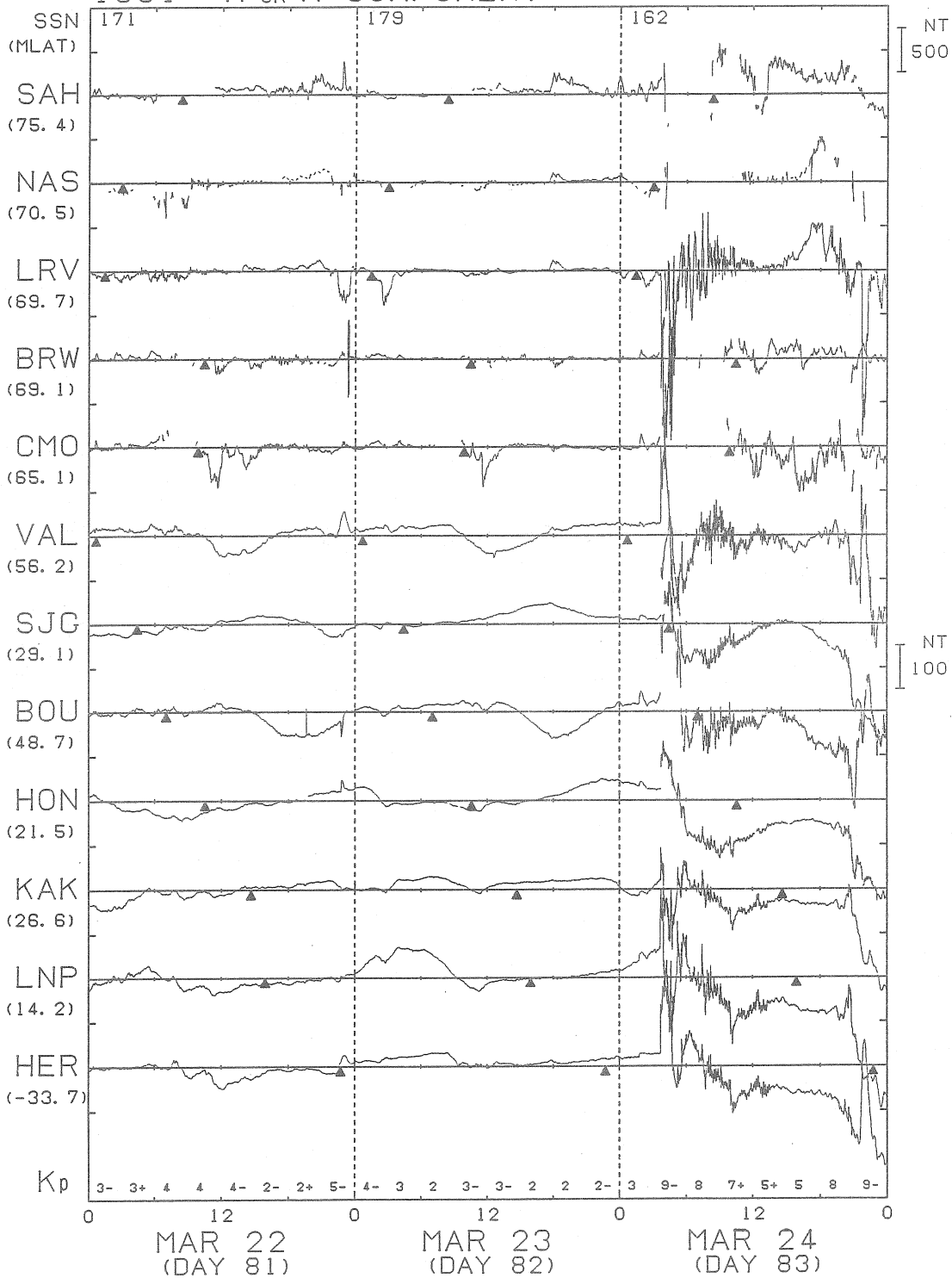
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1991 H OR X-COMPONENT

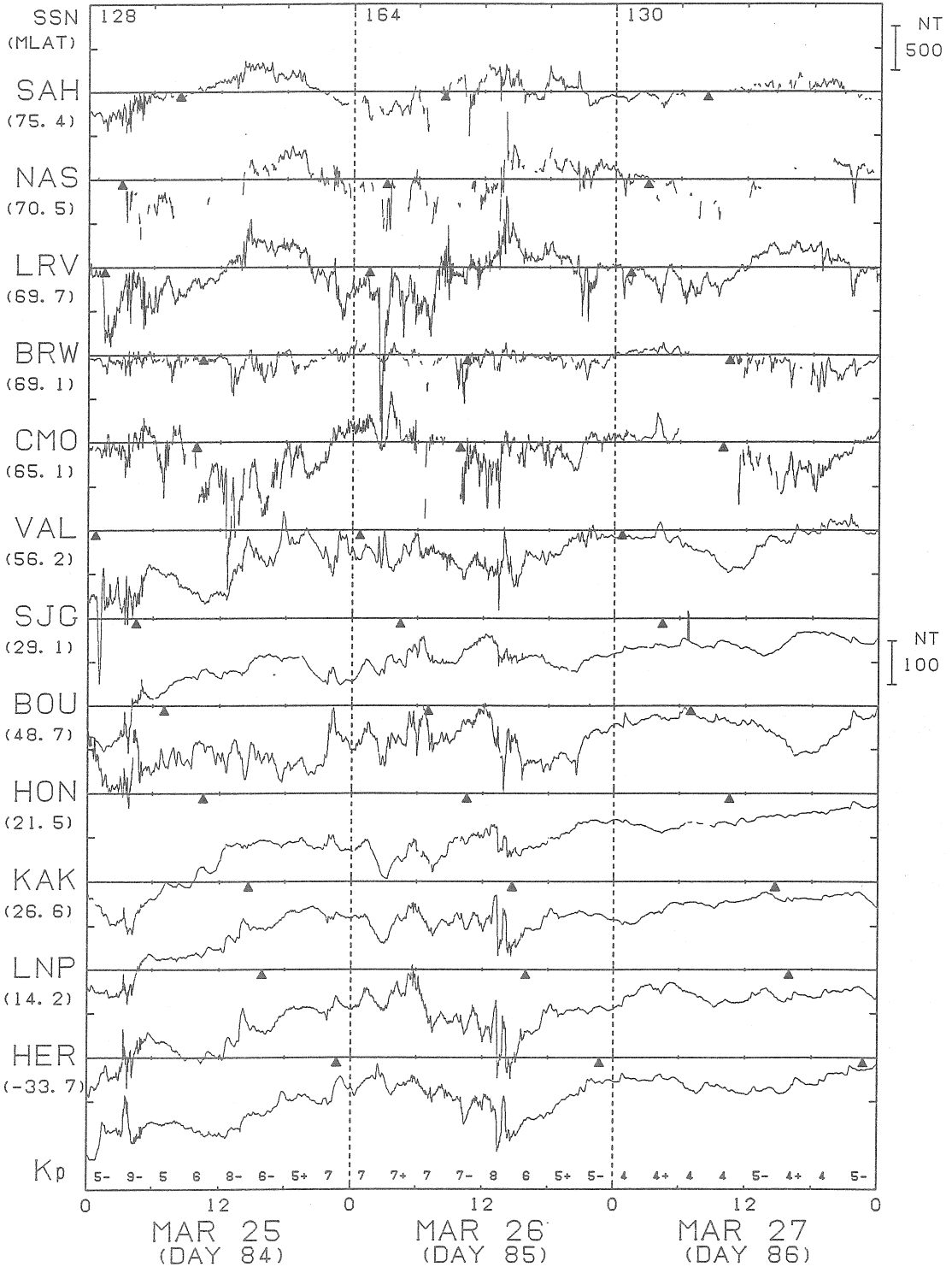
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1991 H OR X-COMPONENT

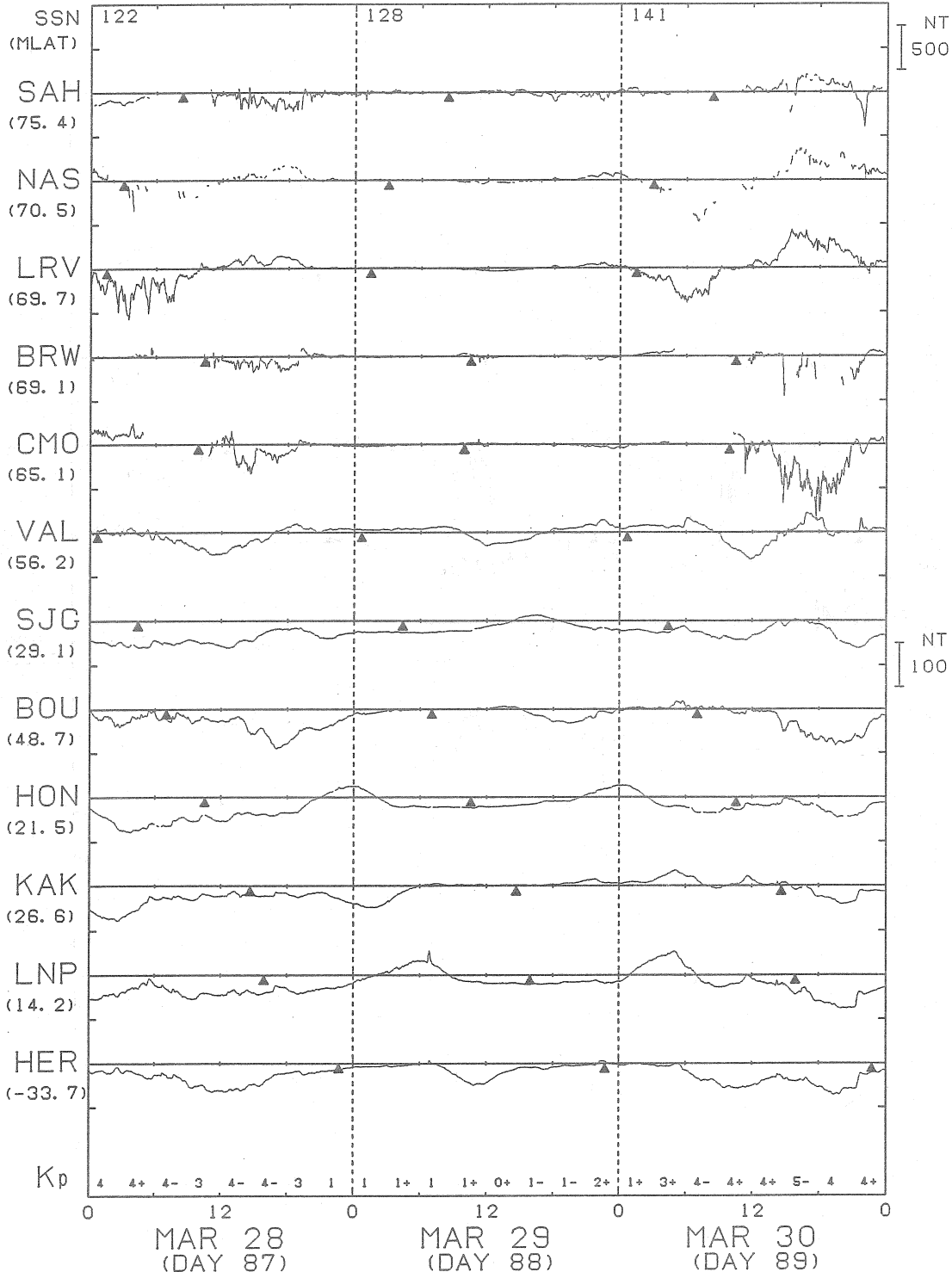
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1991 H OR X-COMPONENT

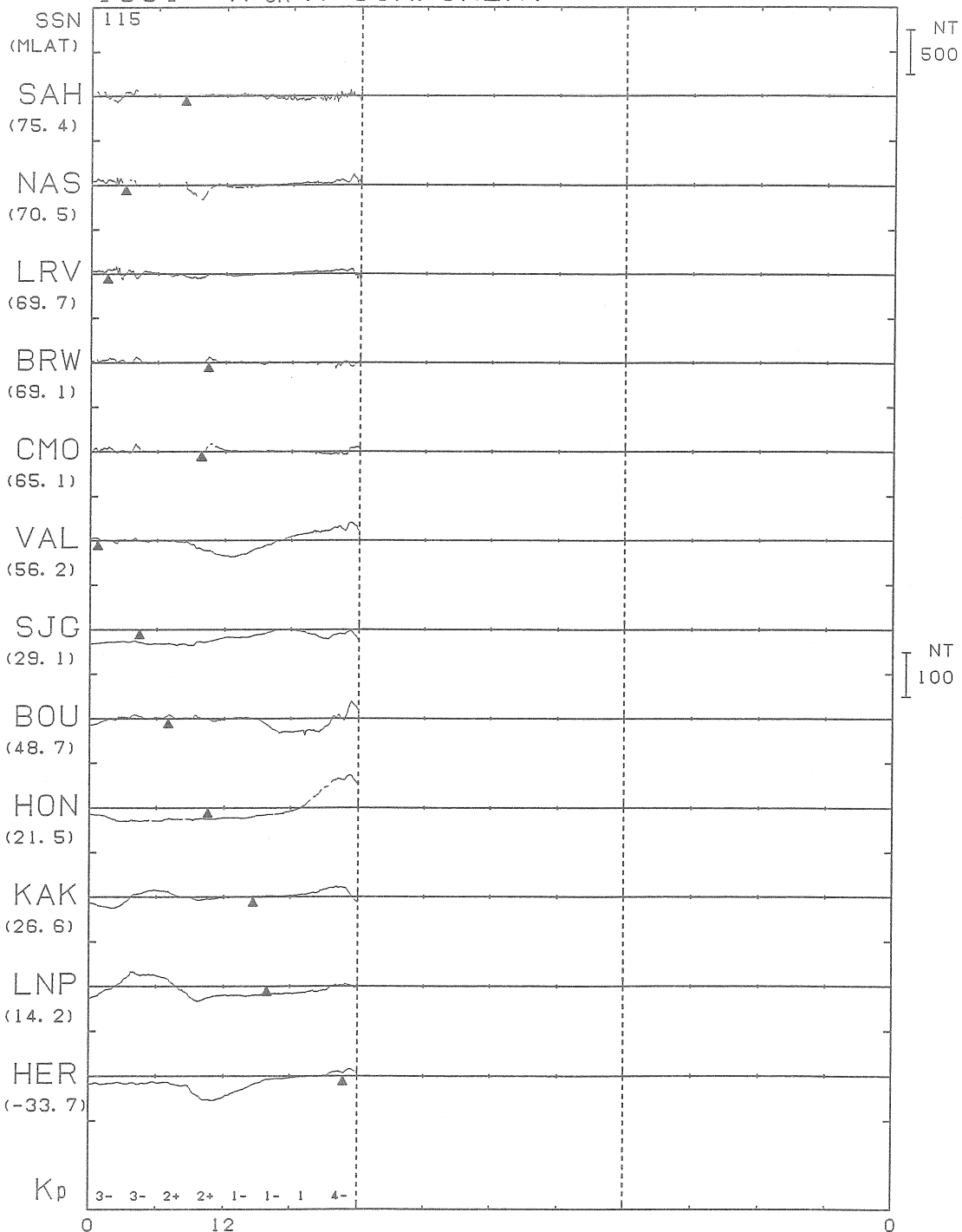
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1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAR 31
(DAY 90)

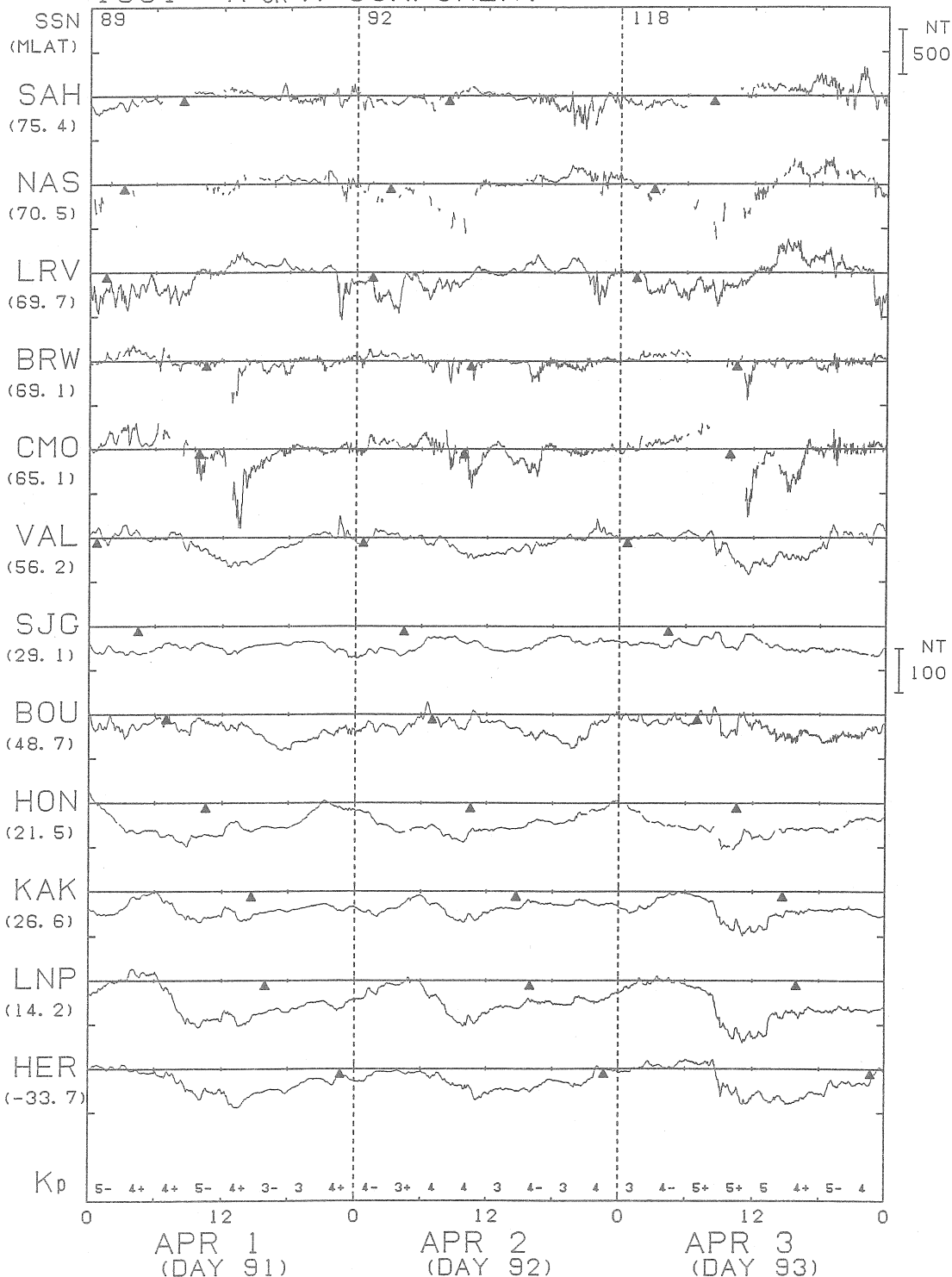
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APRIL 1991

(DAY 091 - 120)

1991 H OR X-COMPONENT

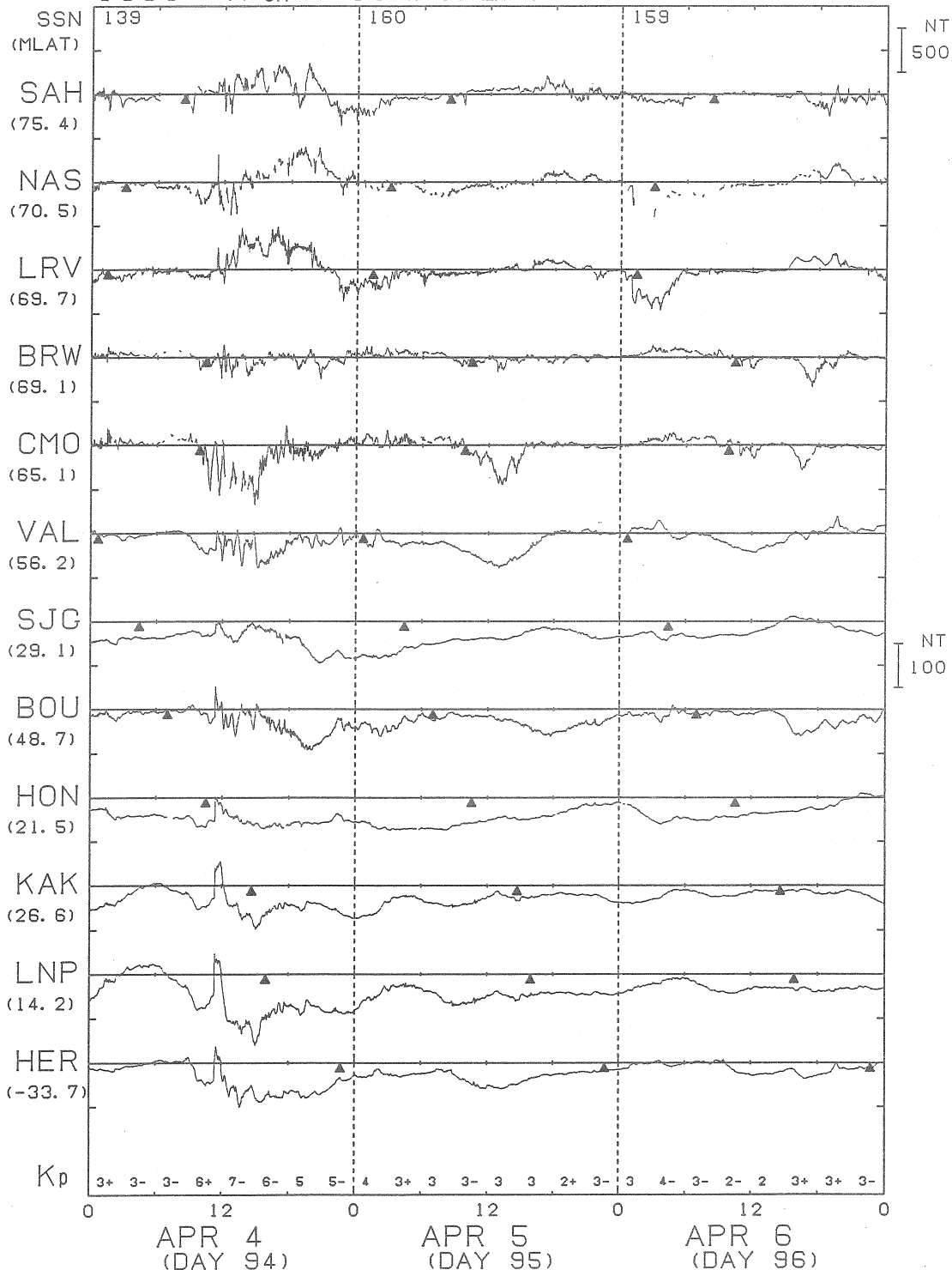
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1991 H OR X-COMPONENT

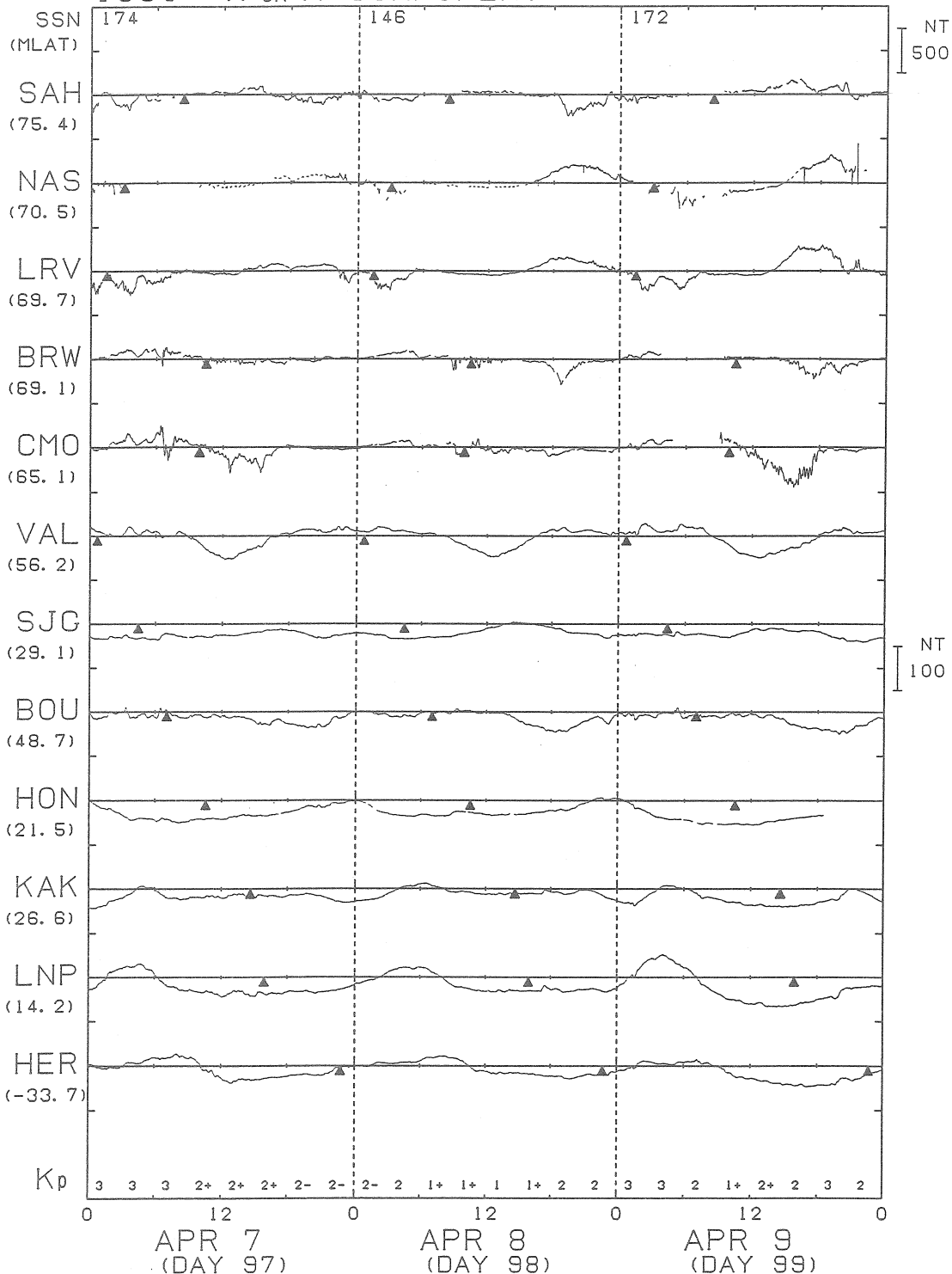
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

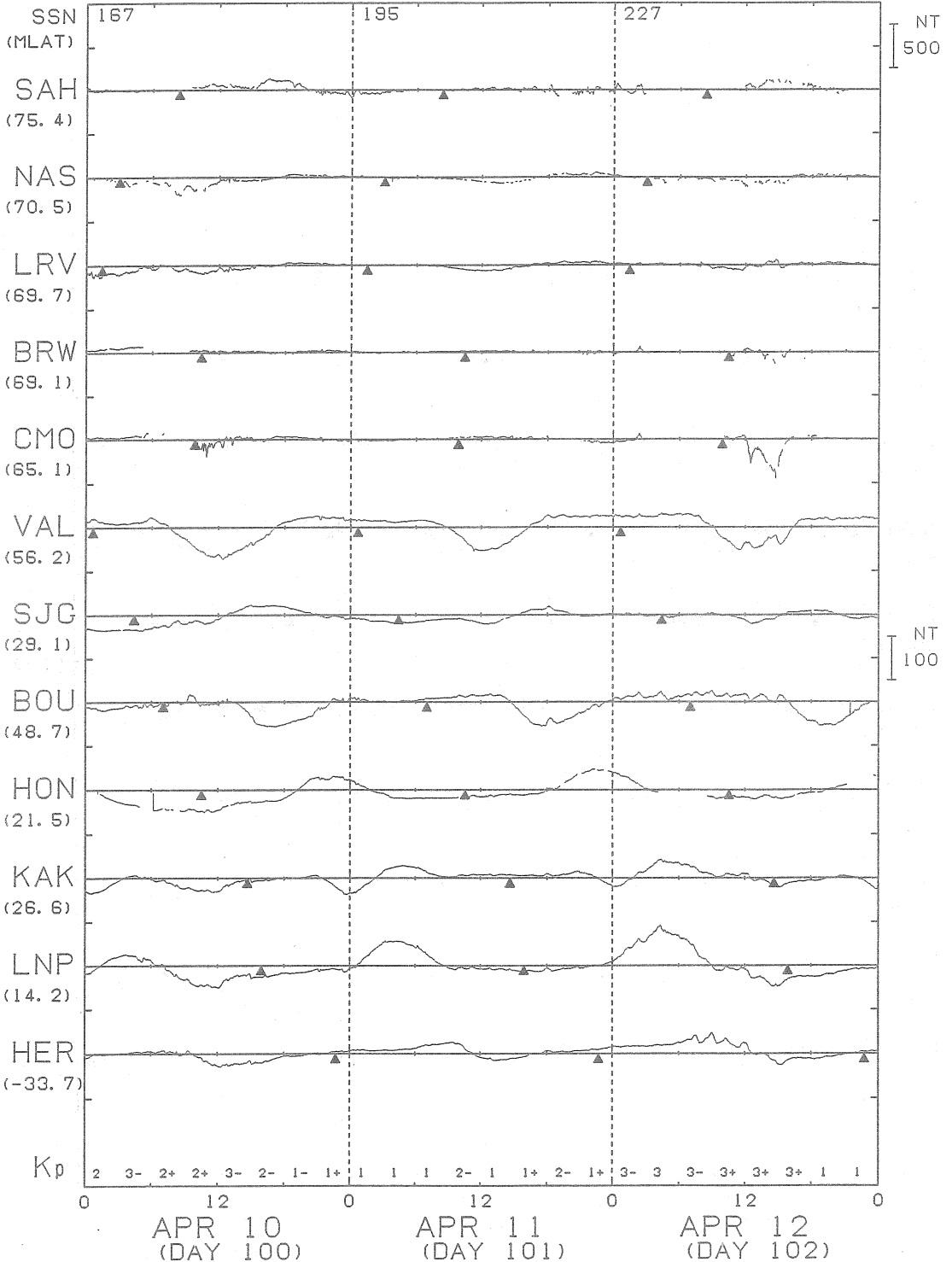
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1991 H OR X-COMPONENT

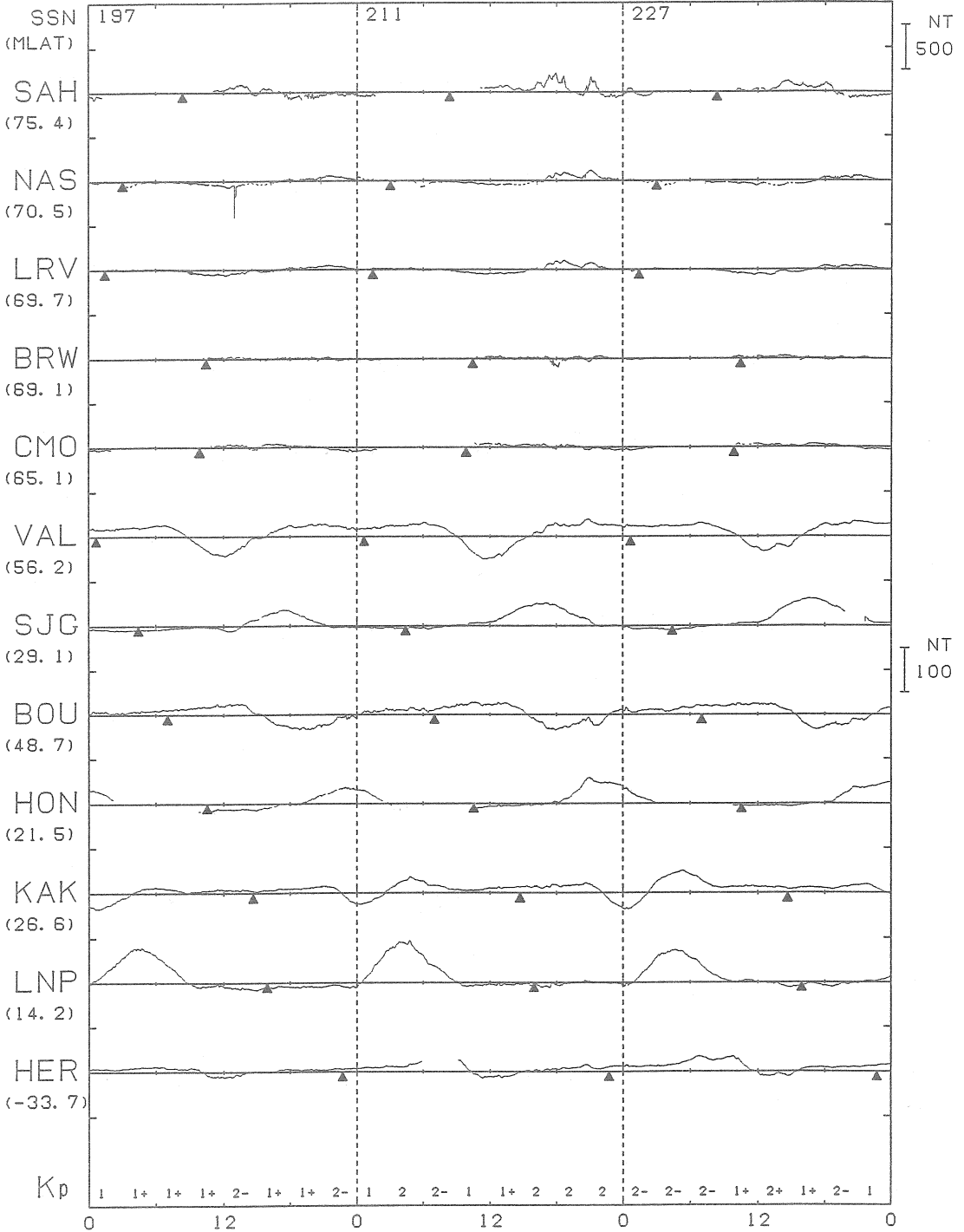
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1991 H OR X-COMPONENT

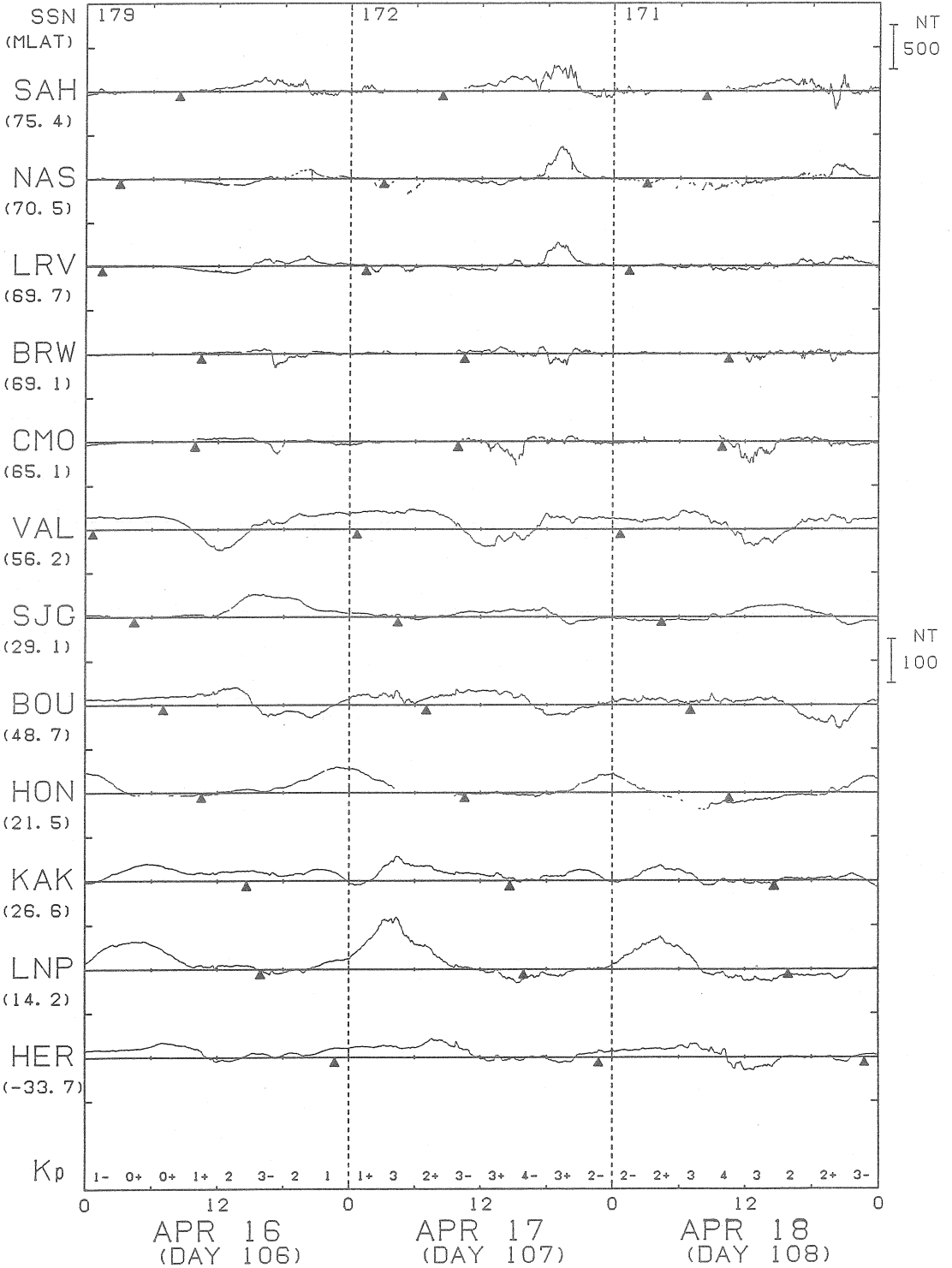
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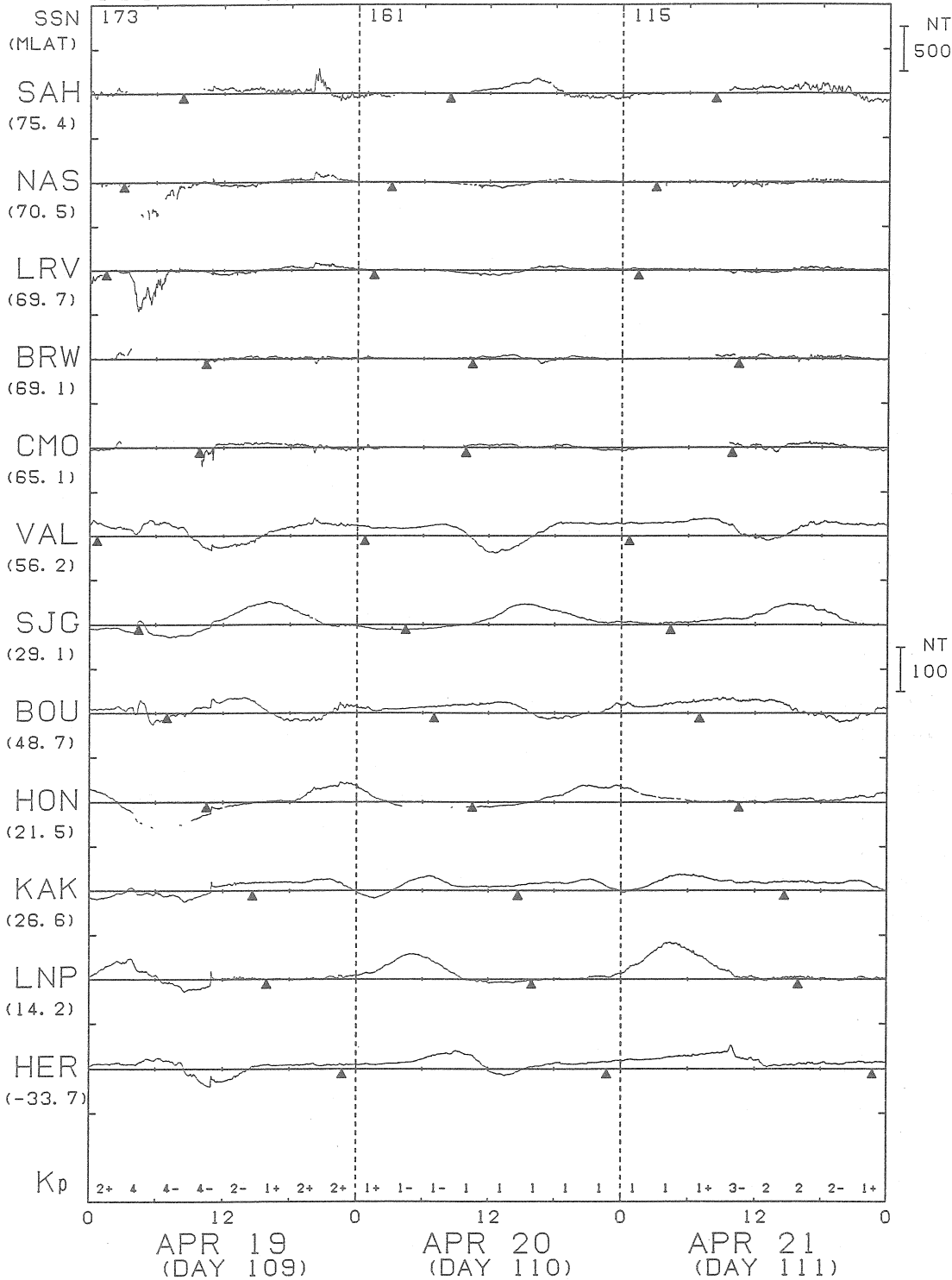
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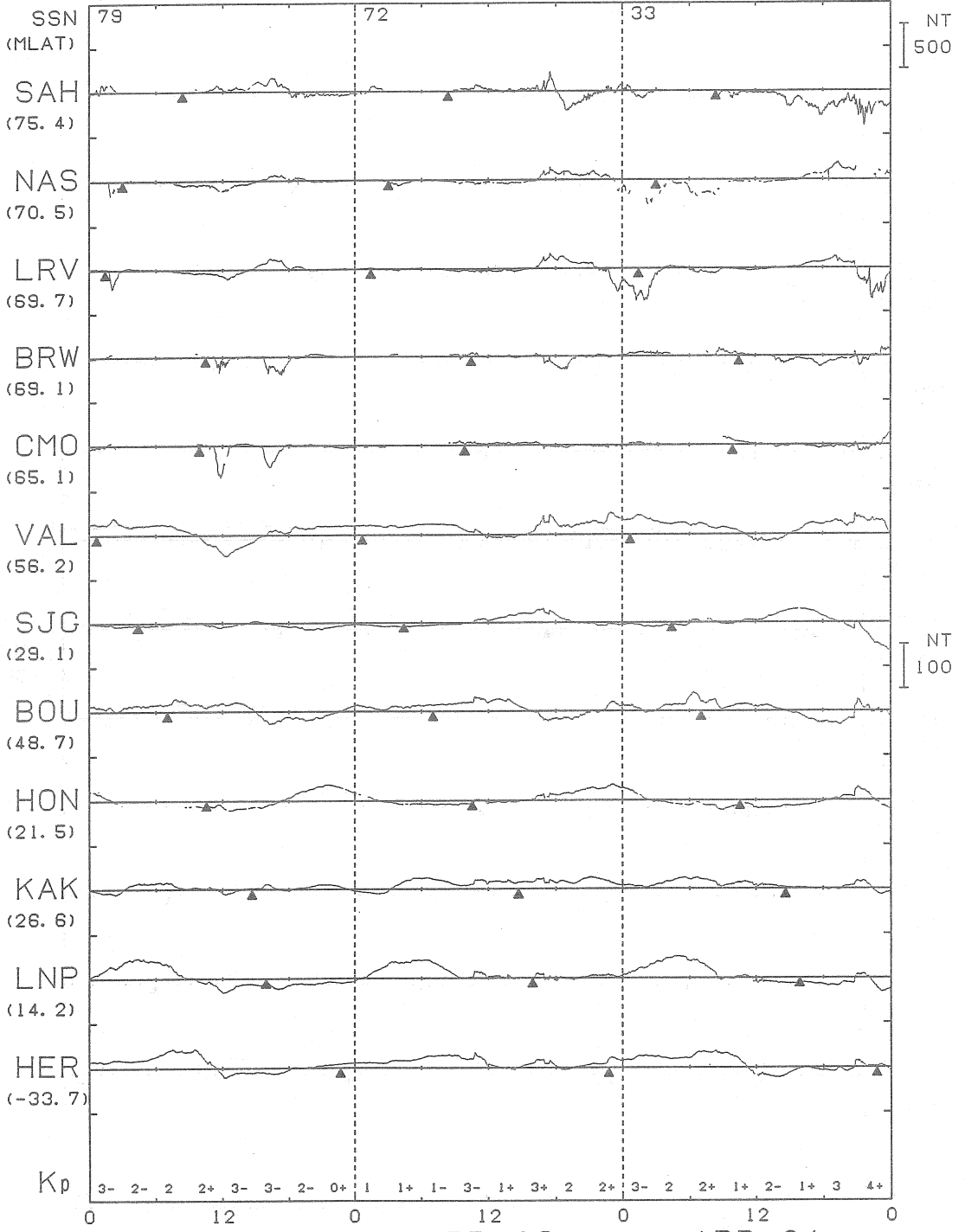
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1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

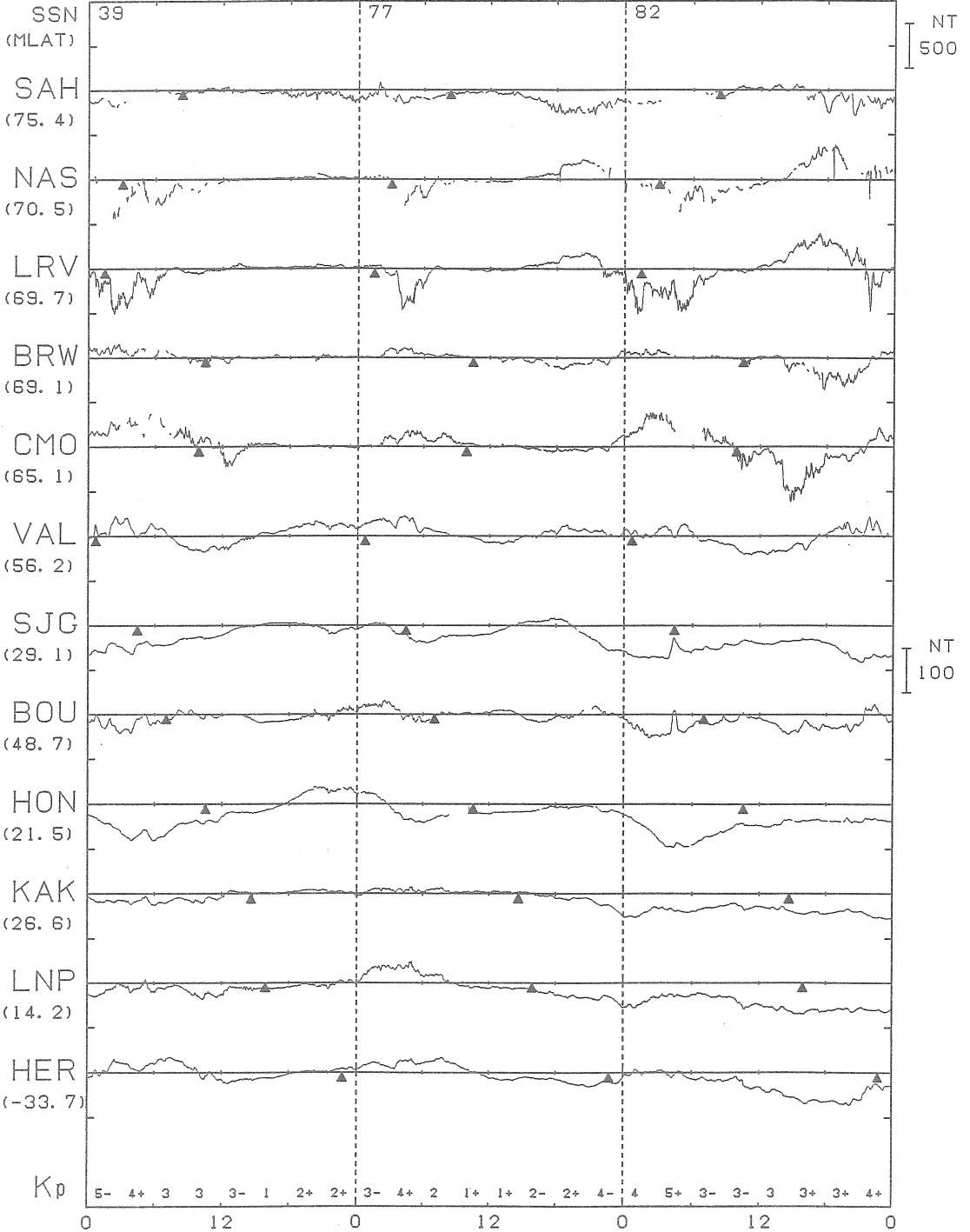


APR 22 (DAY 112) APR 23 (DAY 113) APR 24 (DAY 114)

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1991 H OR X-COMPONENT

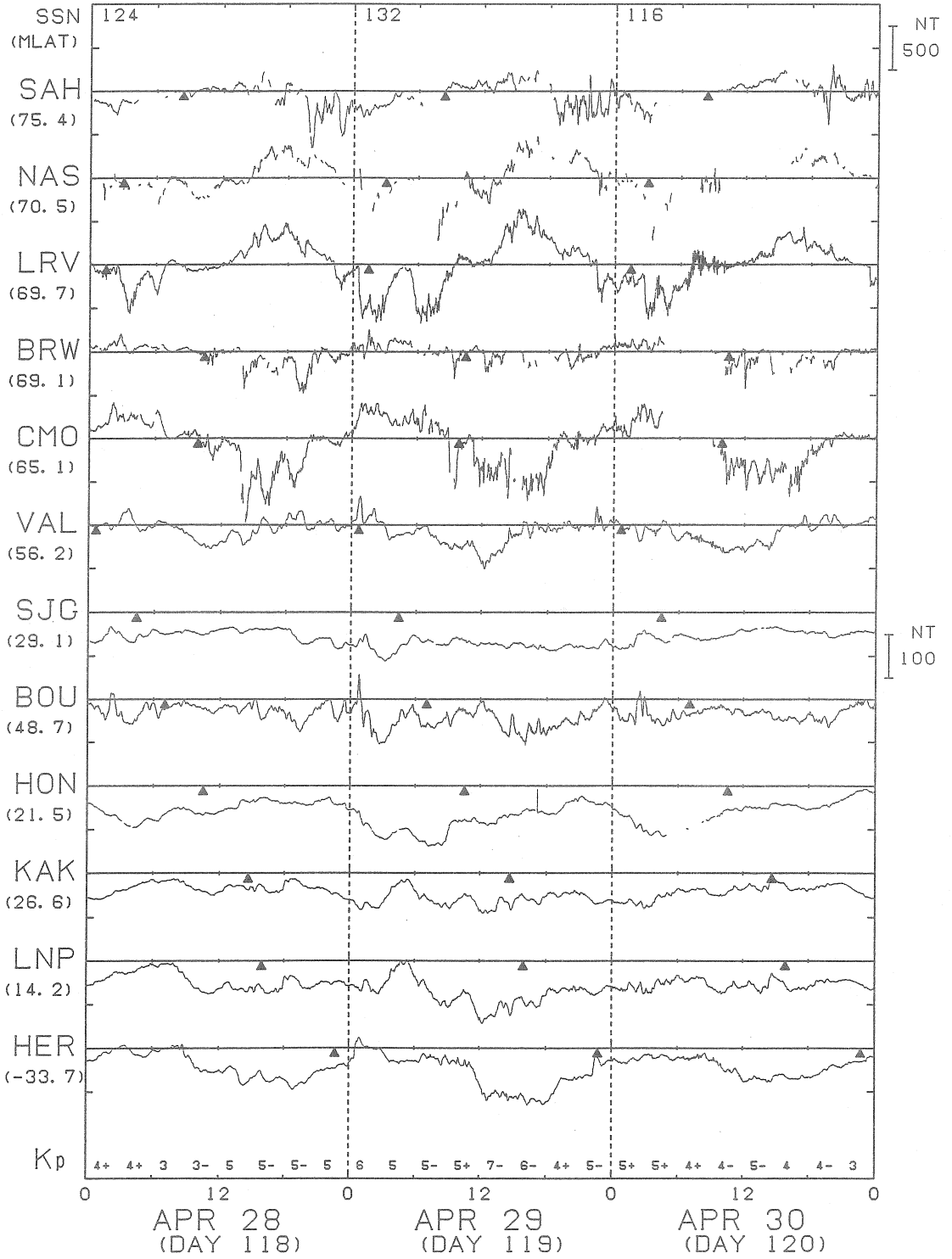
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1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



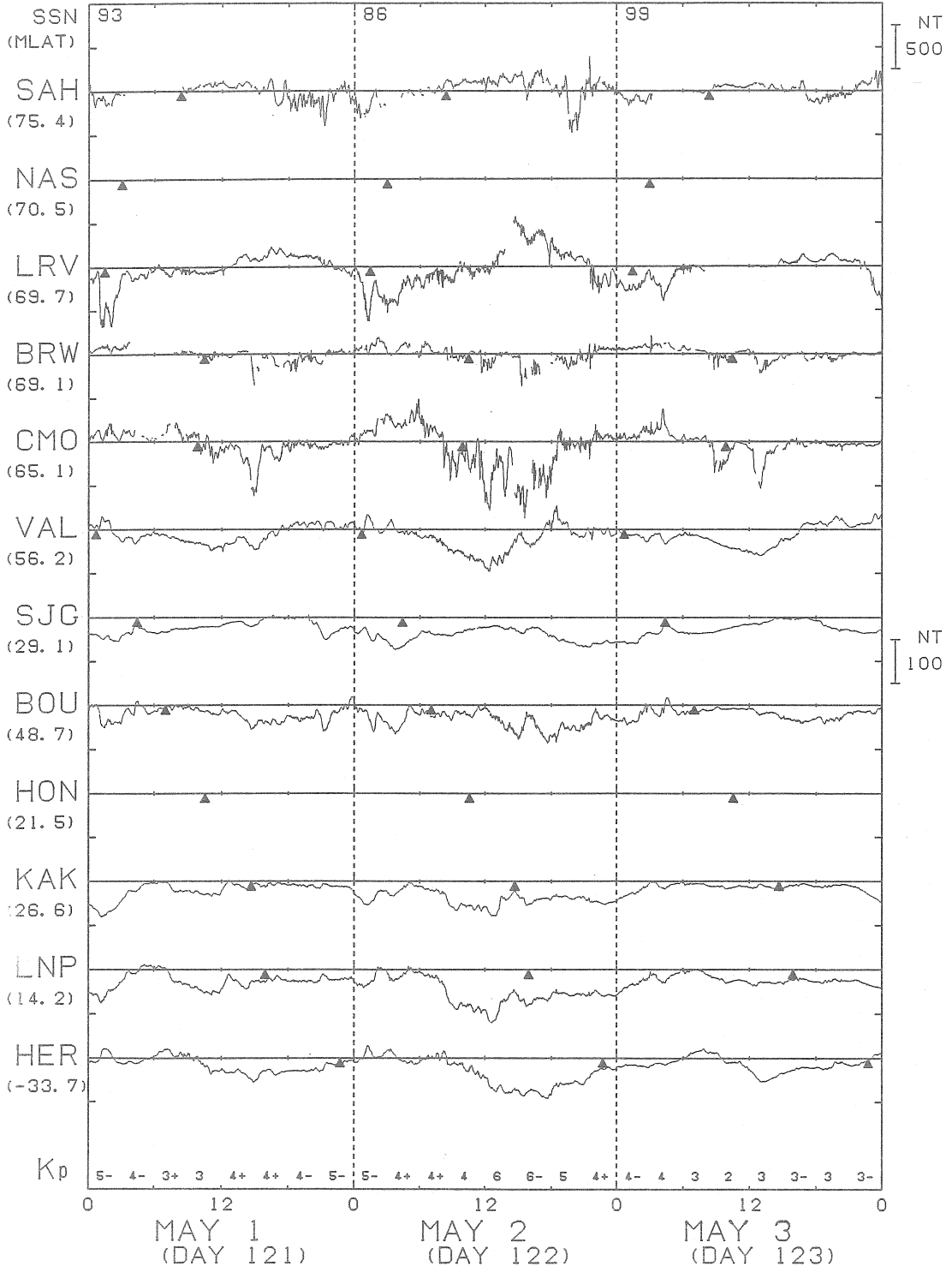
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MAY 1991

(DAY 121 - 151)

1991 H OR X-COMPONENT

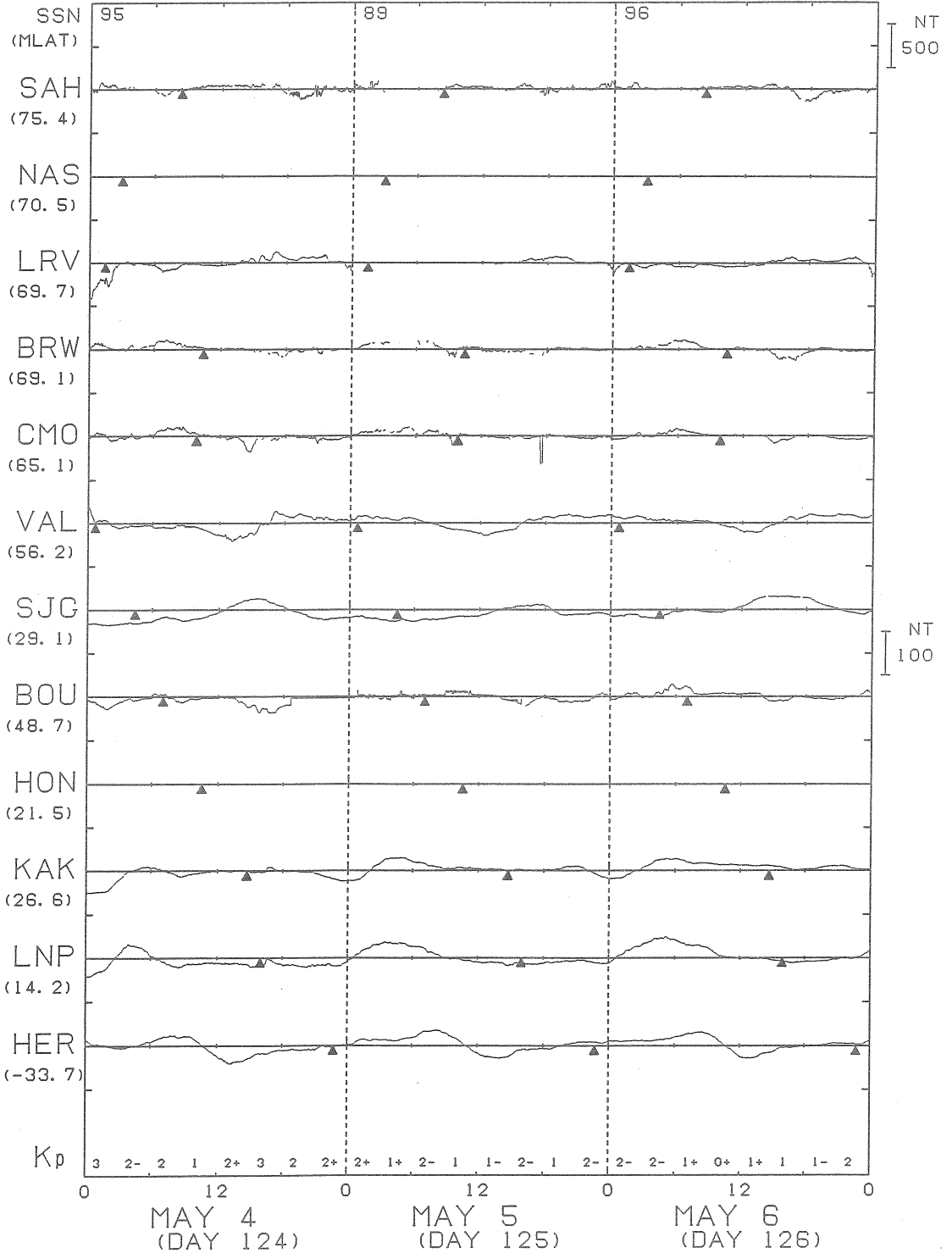
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1991 H OR X-COMPONENT

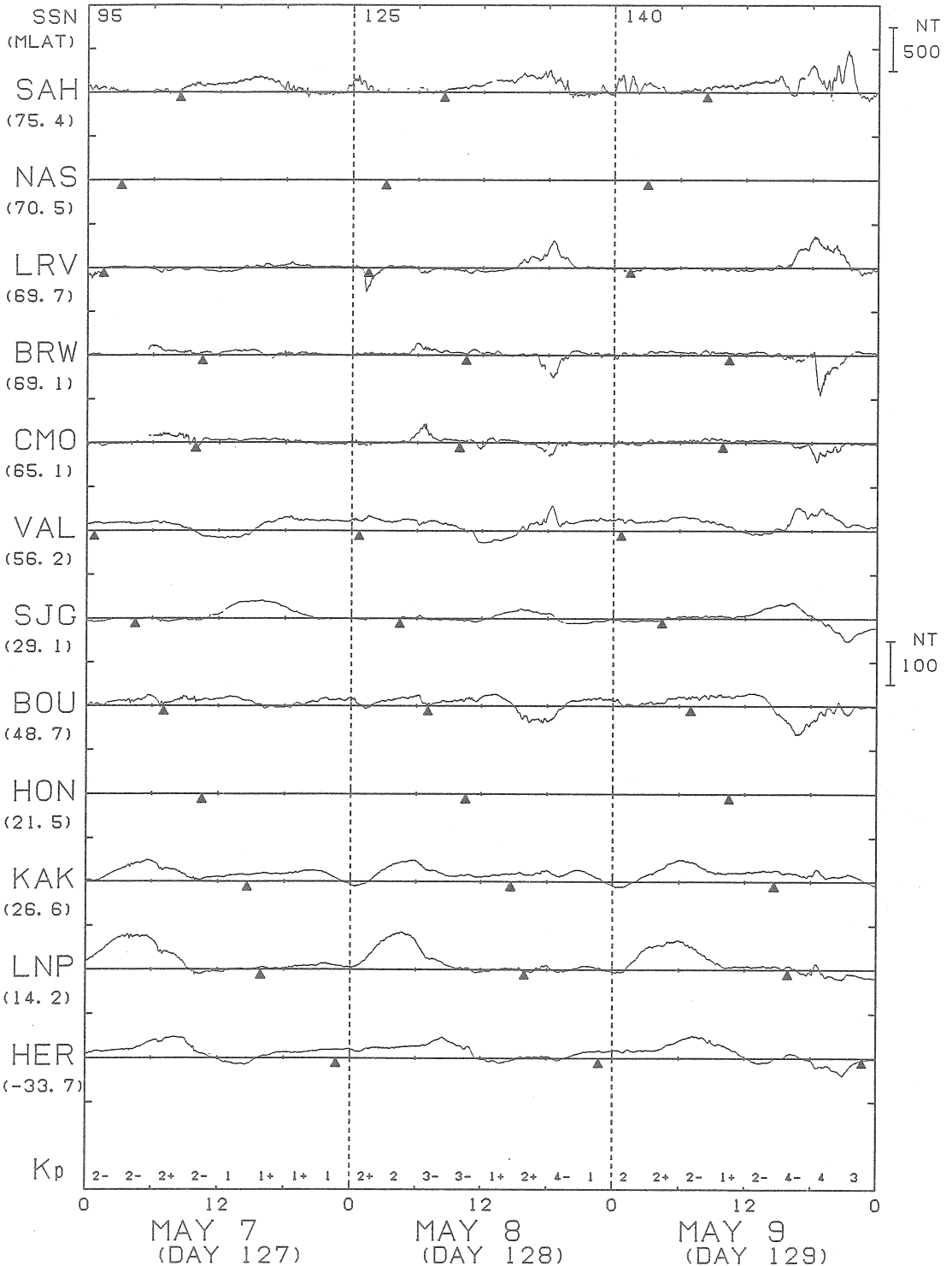
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1991 H OR X-COMPONENT

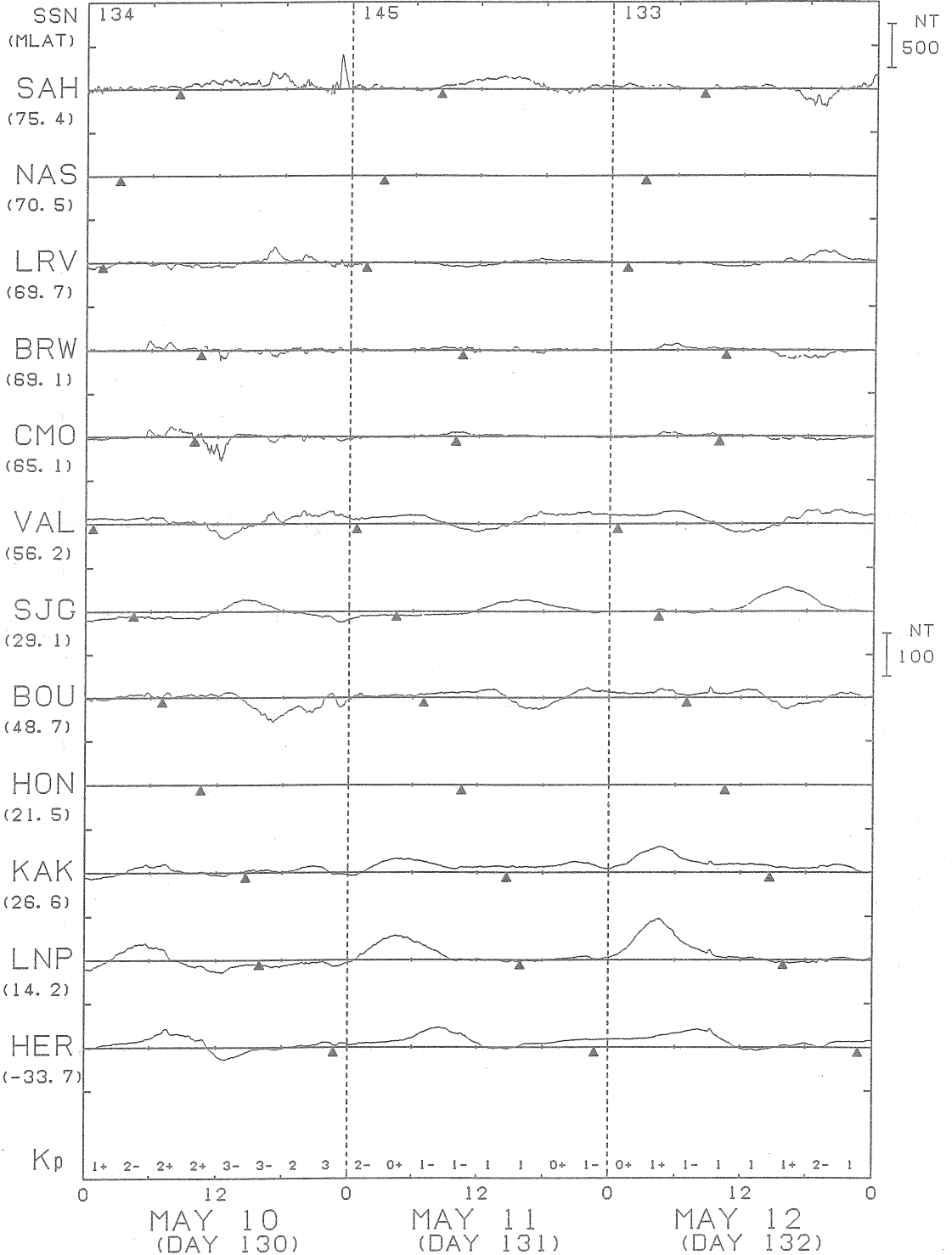
▲ : LOCAL MIDNIGHT



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

1991 H OR X-COMPONENT

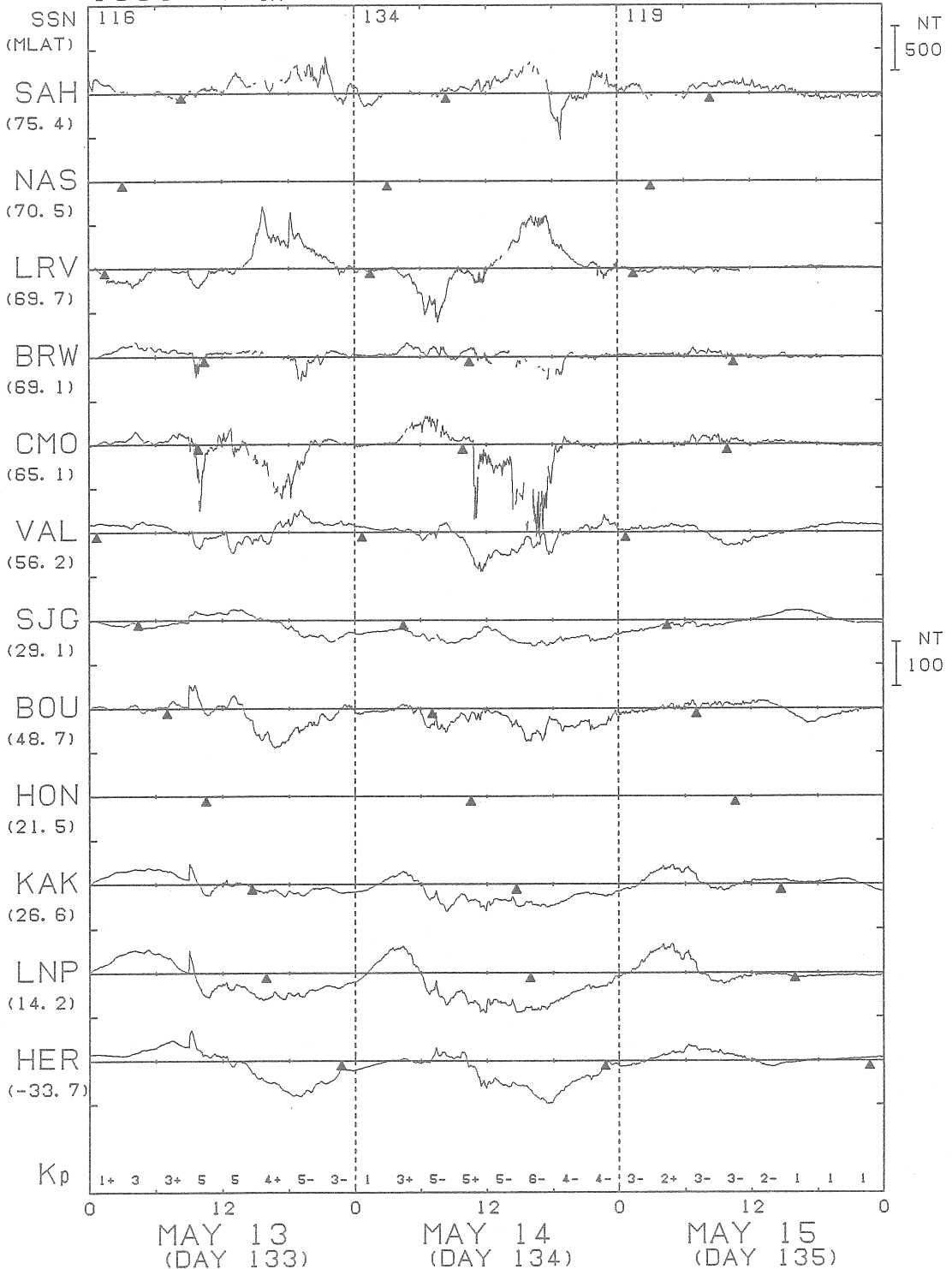
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1991 H OR X-COMPONENT

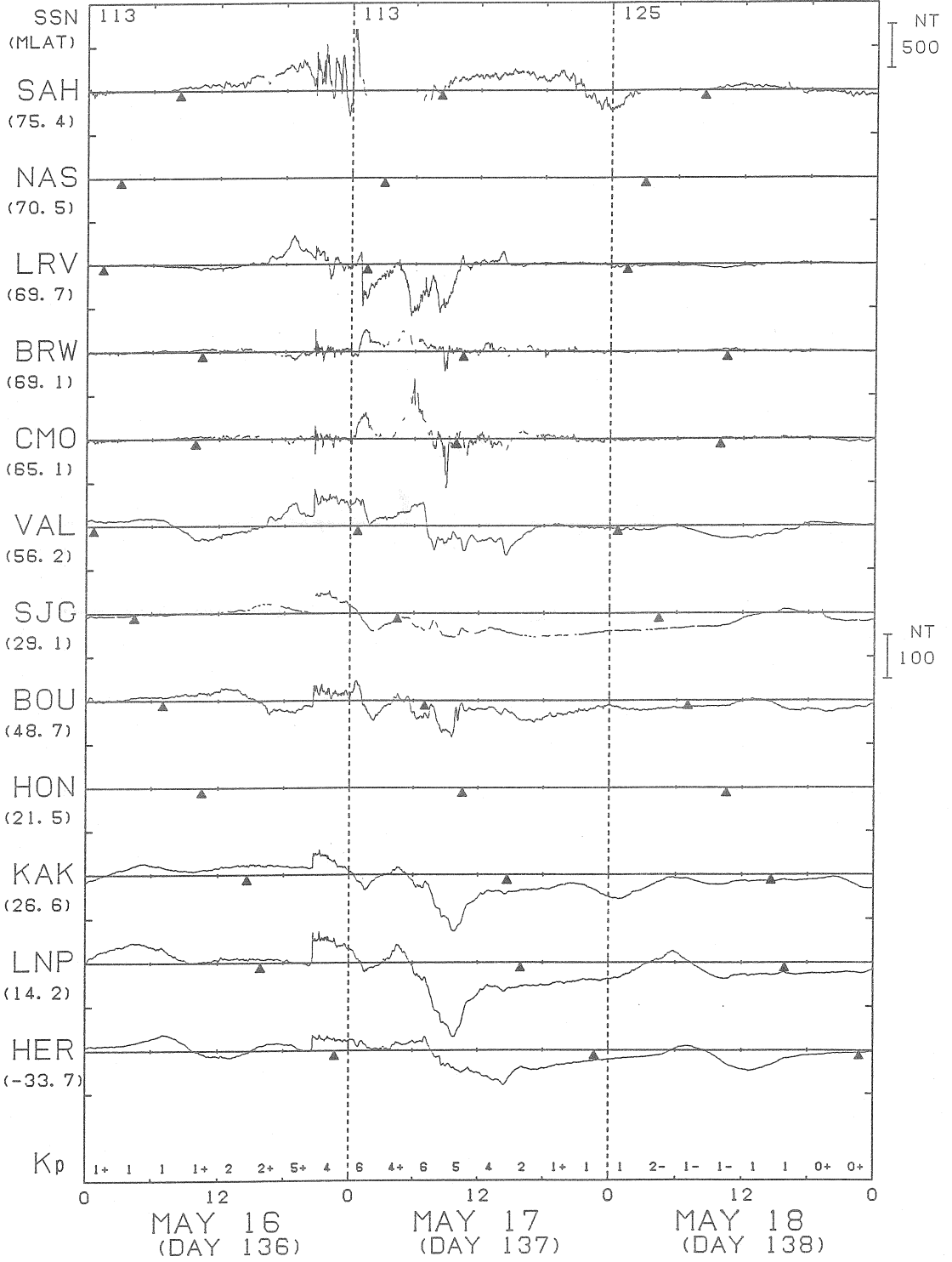
▲ : LOCAL MIDNIGHT



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1991 H_{0R} X-COMPONENT

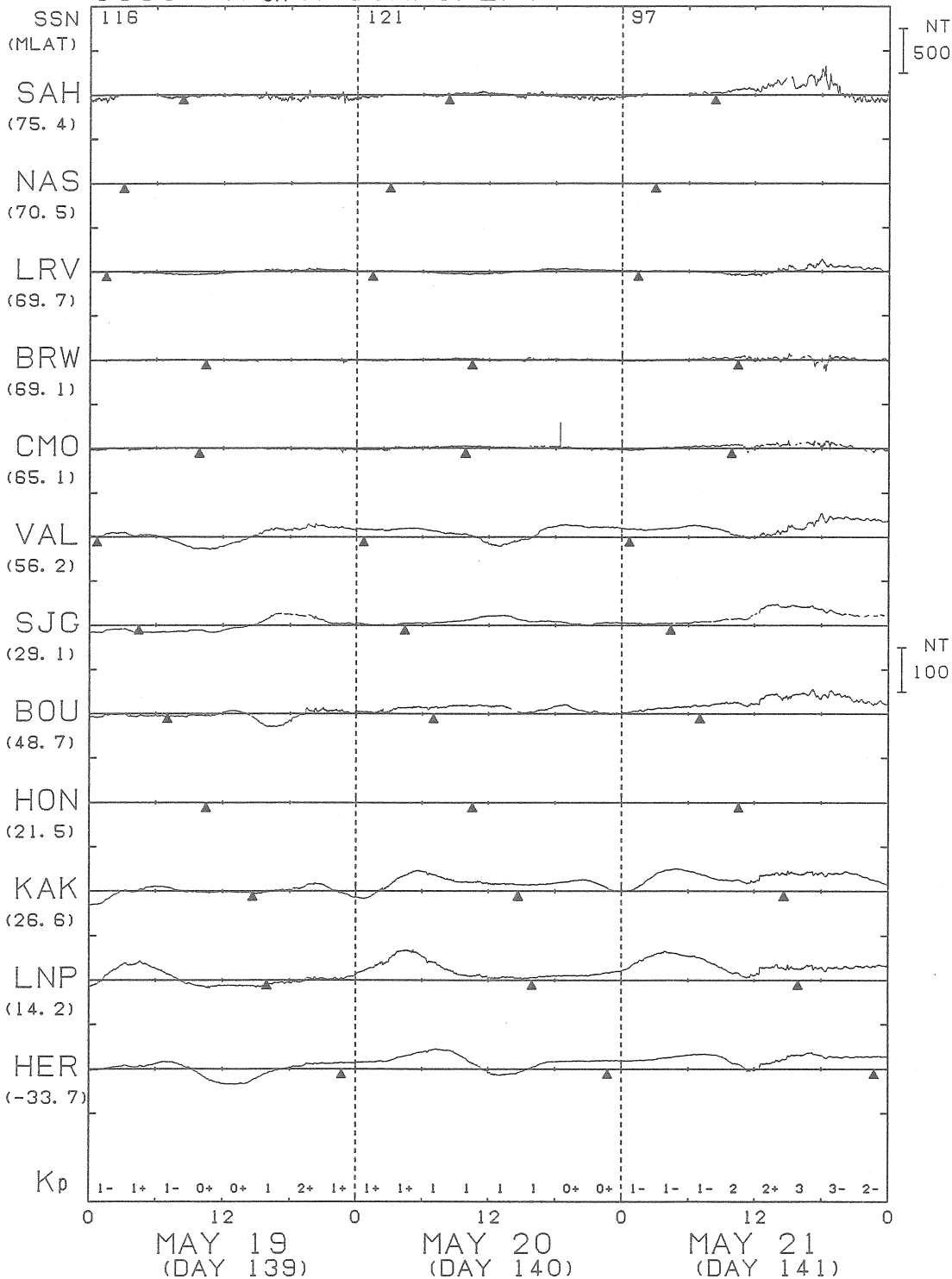
▲ : LOCAL MIDNIGHT



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 * PROMPT DATA ARE INCLUDED
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1991 H OR X-COMPONENT

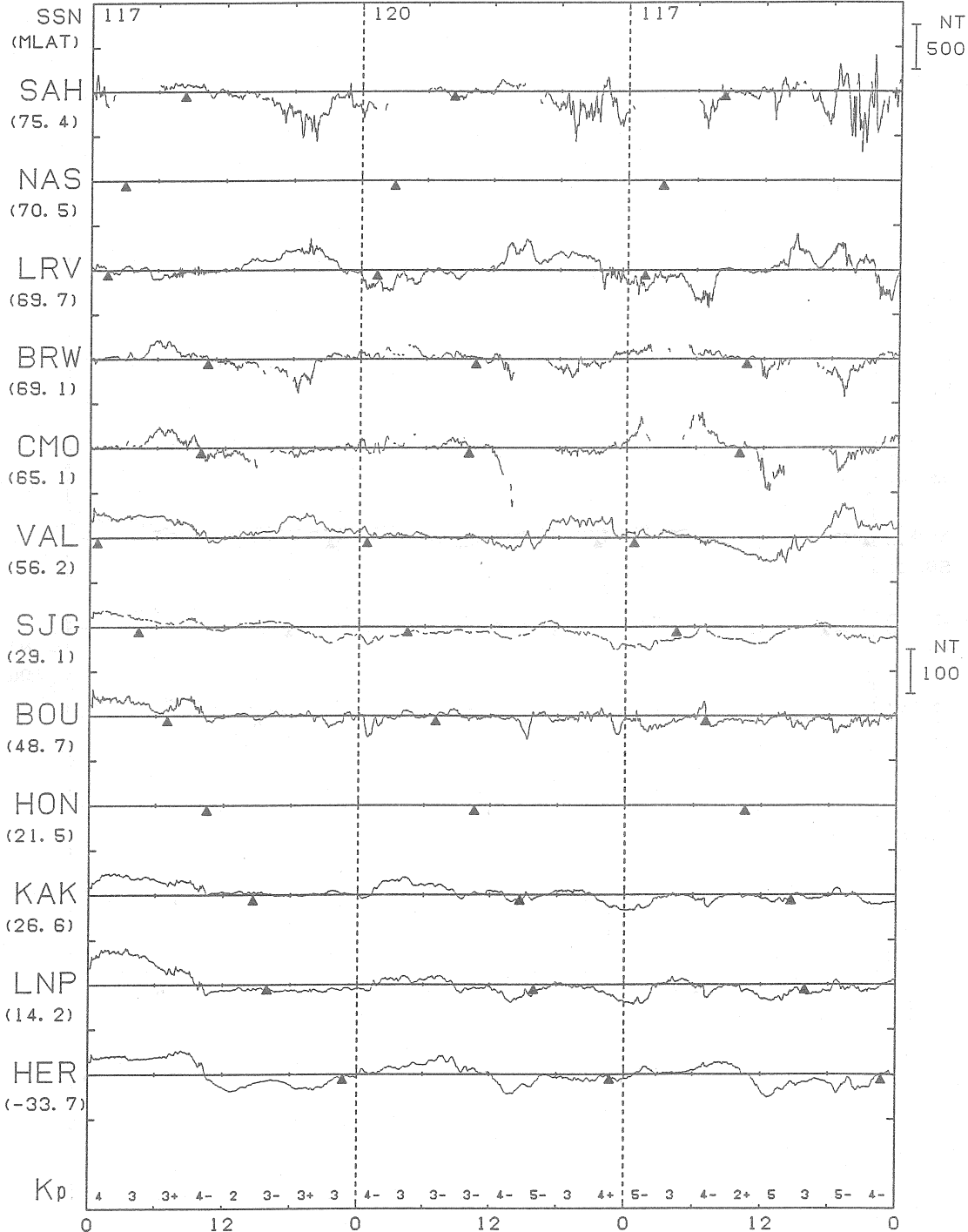
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

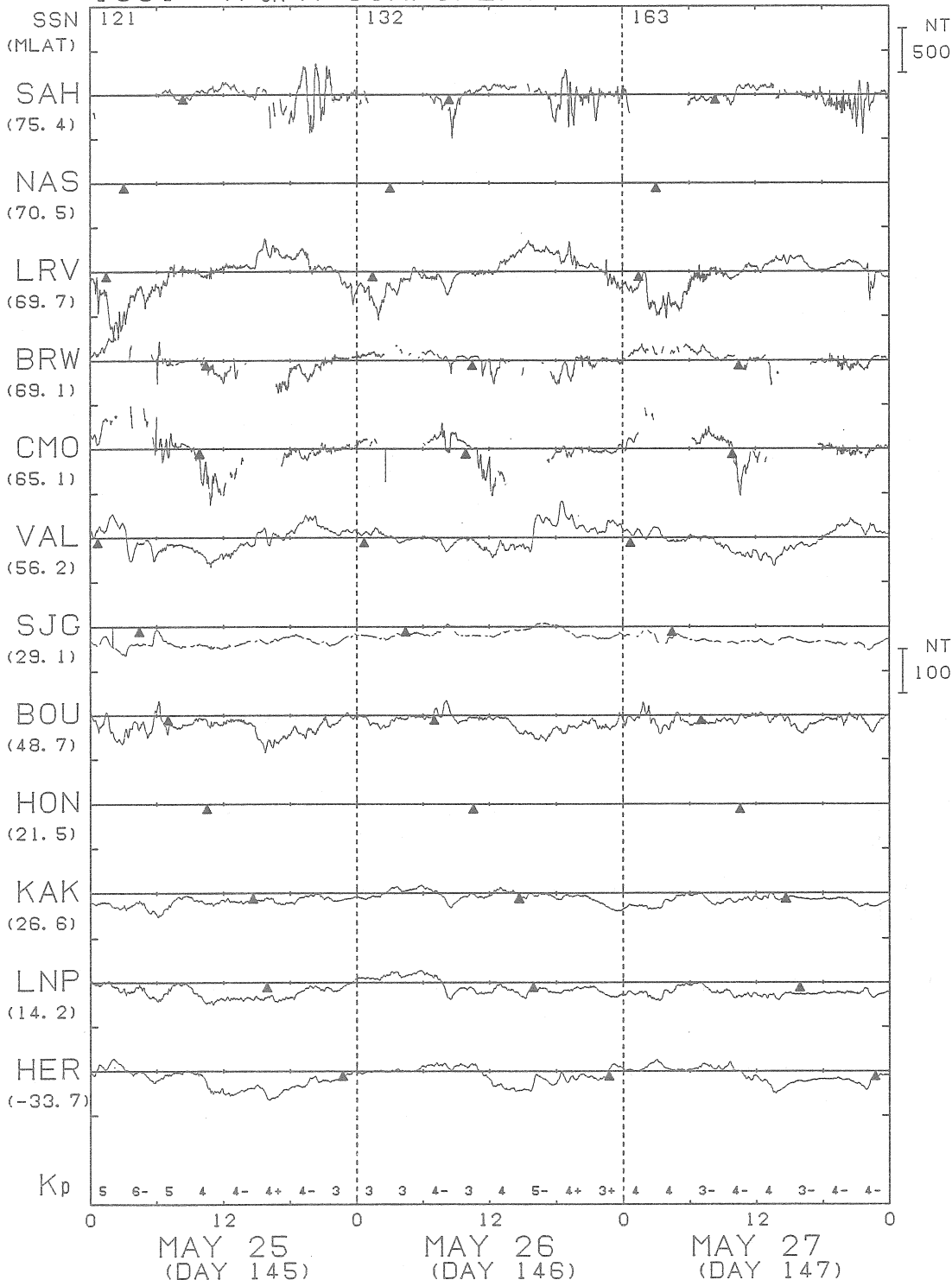
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1991 H OR X-COMPONENT

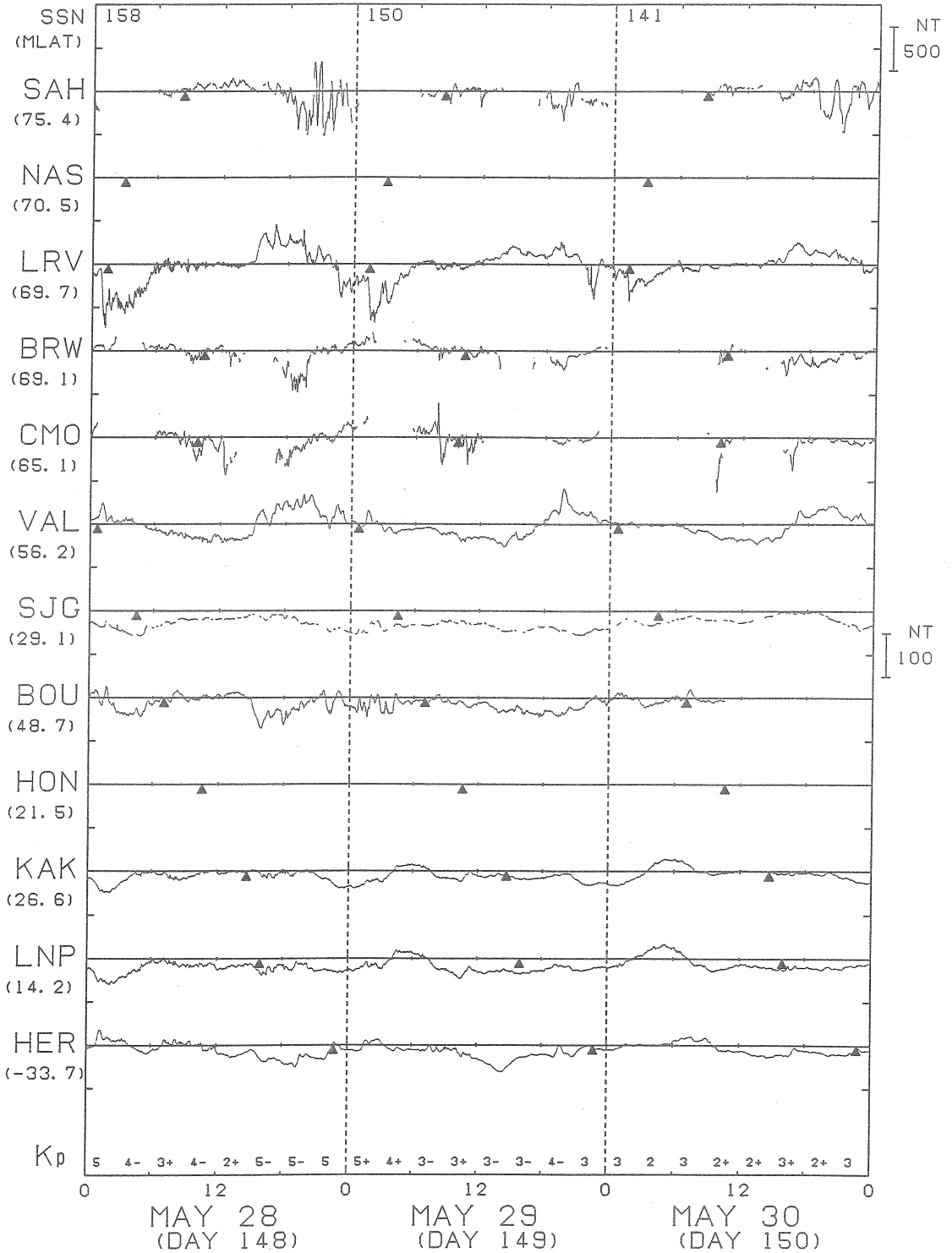
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1991 H OR X-COMPONENT

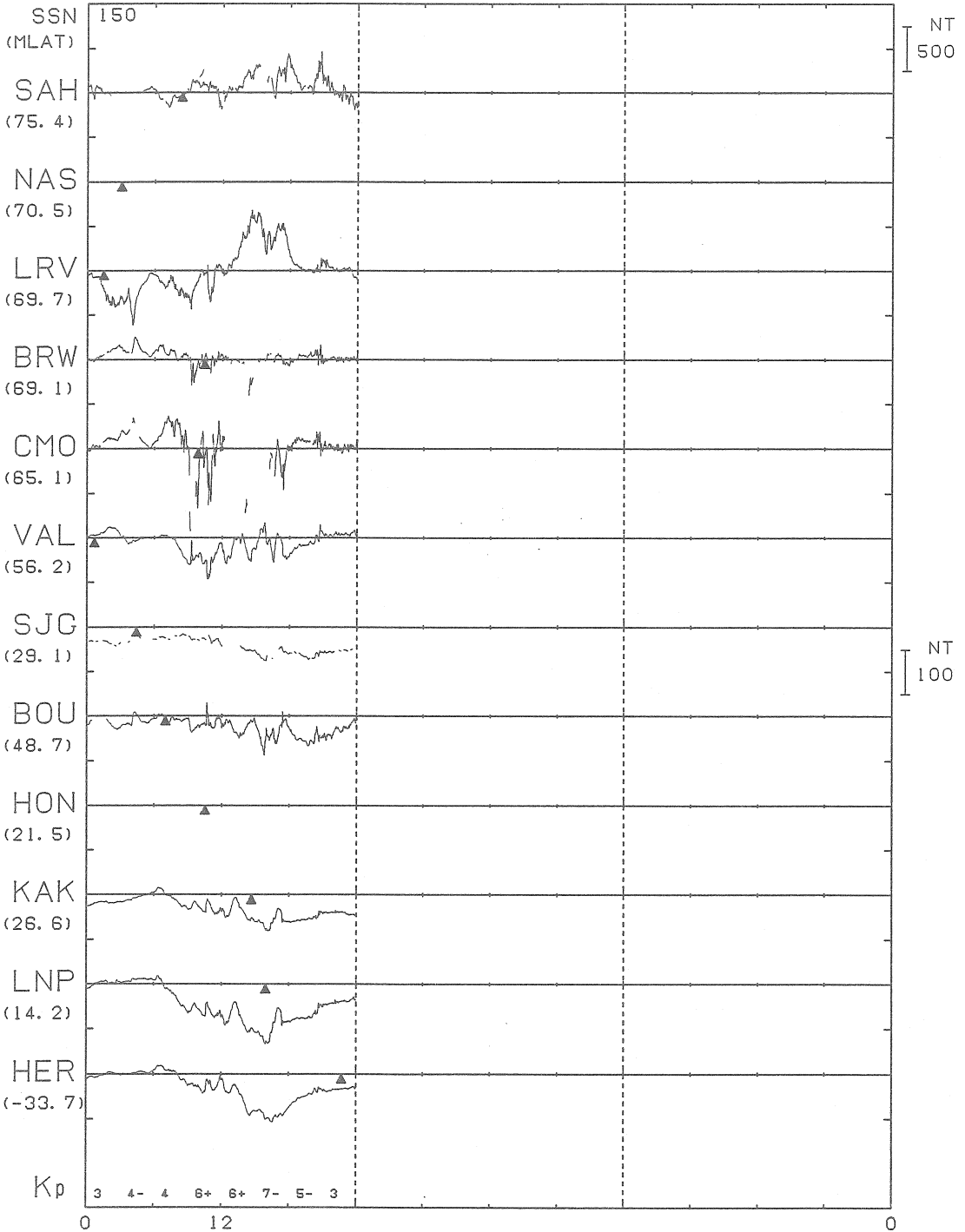
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* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
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1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAY 31
(DAY 151)

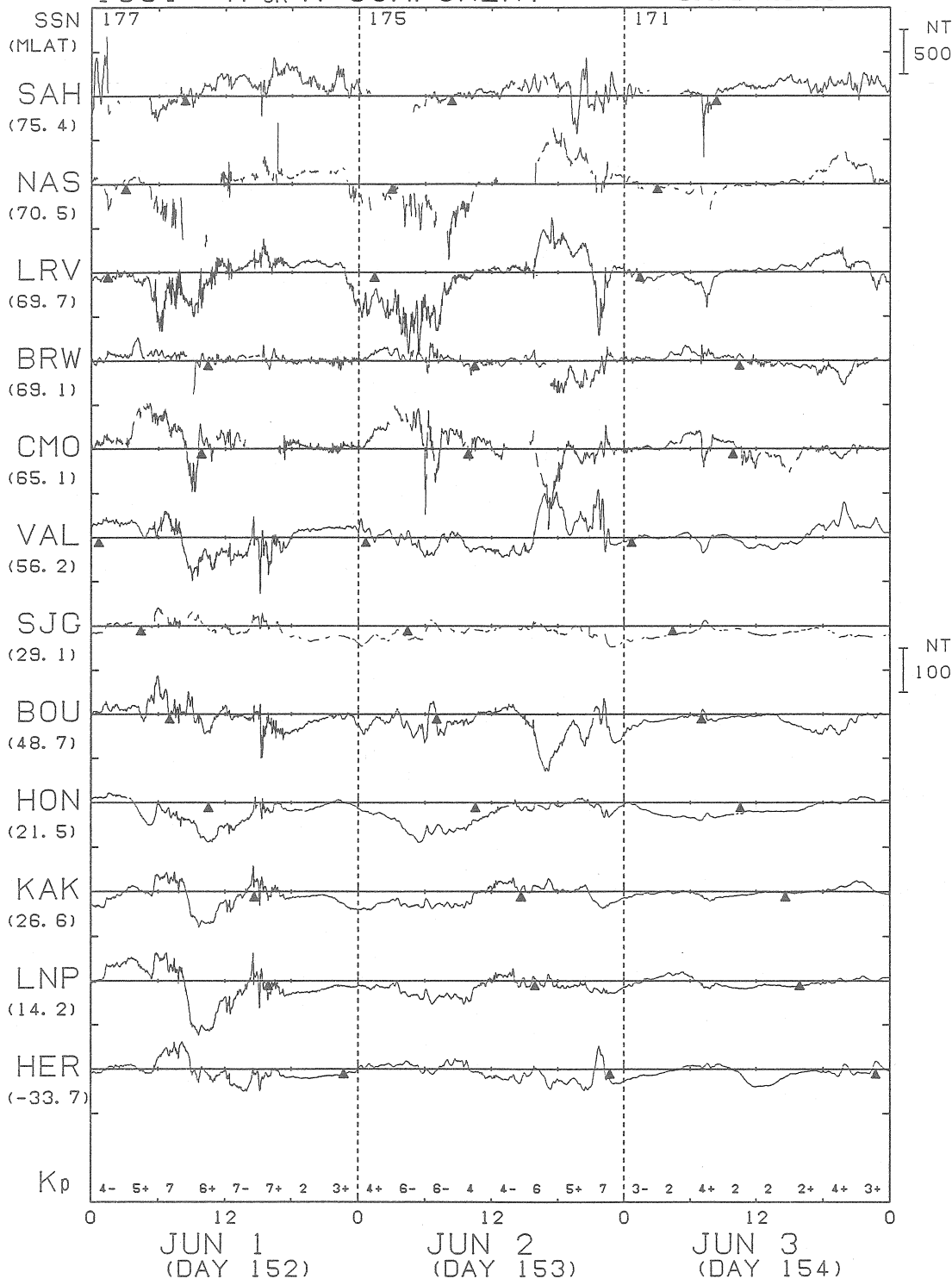
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 ** PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

JUNE 1991

(DAY 152 - 181)

1991 H OR X-COMPONENT

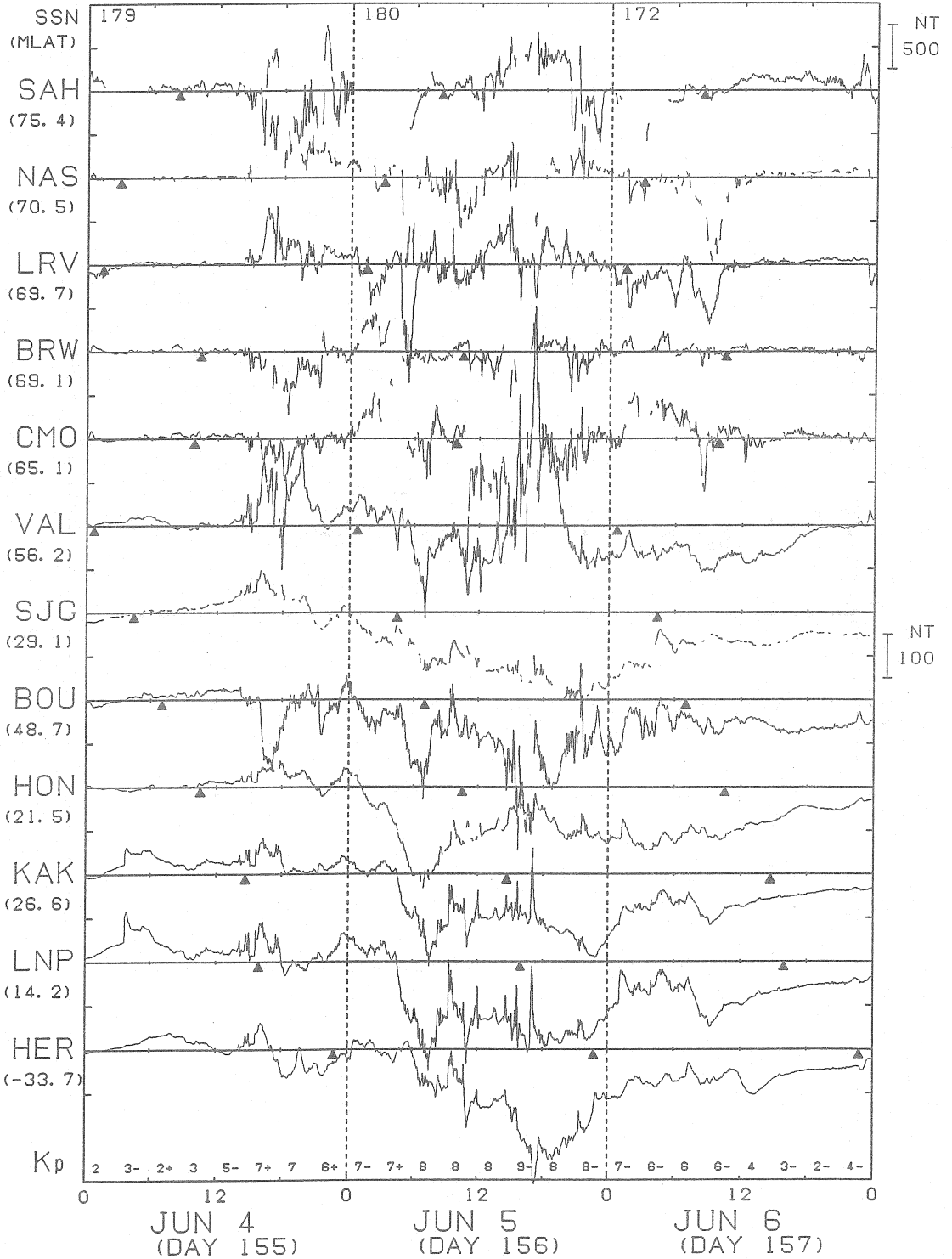
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1991 H OR X-COMPONENT

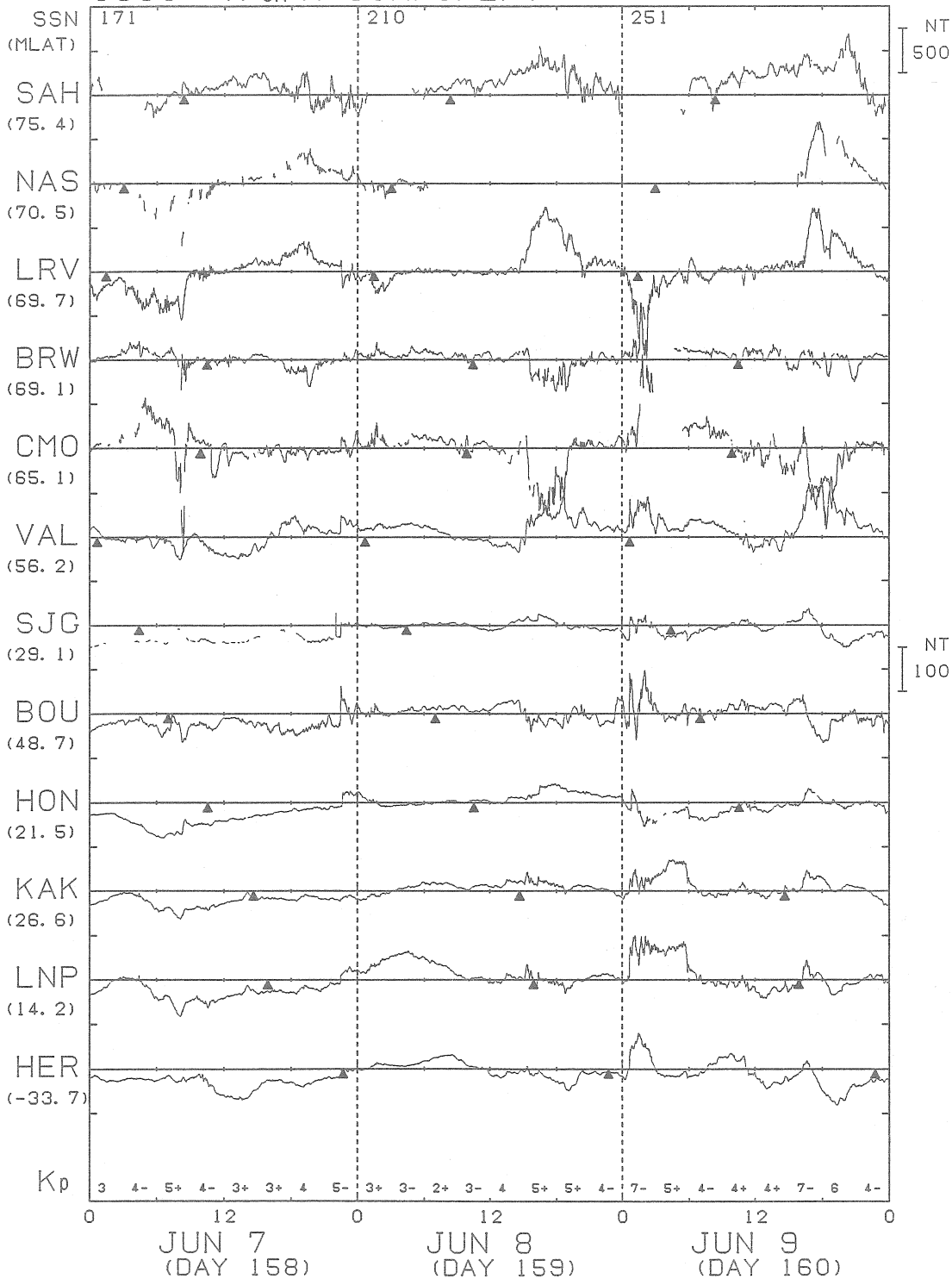
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1991 H OR X-COMPONENT

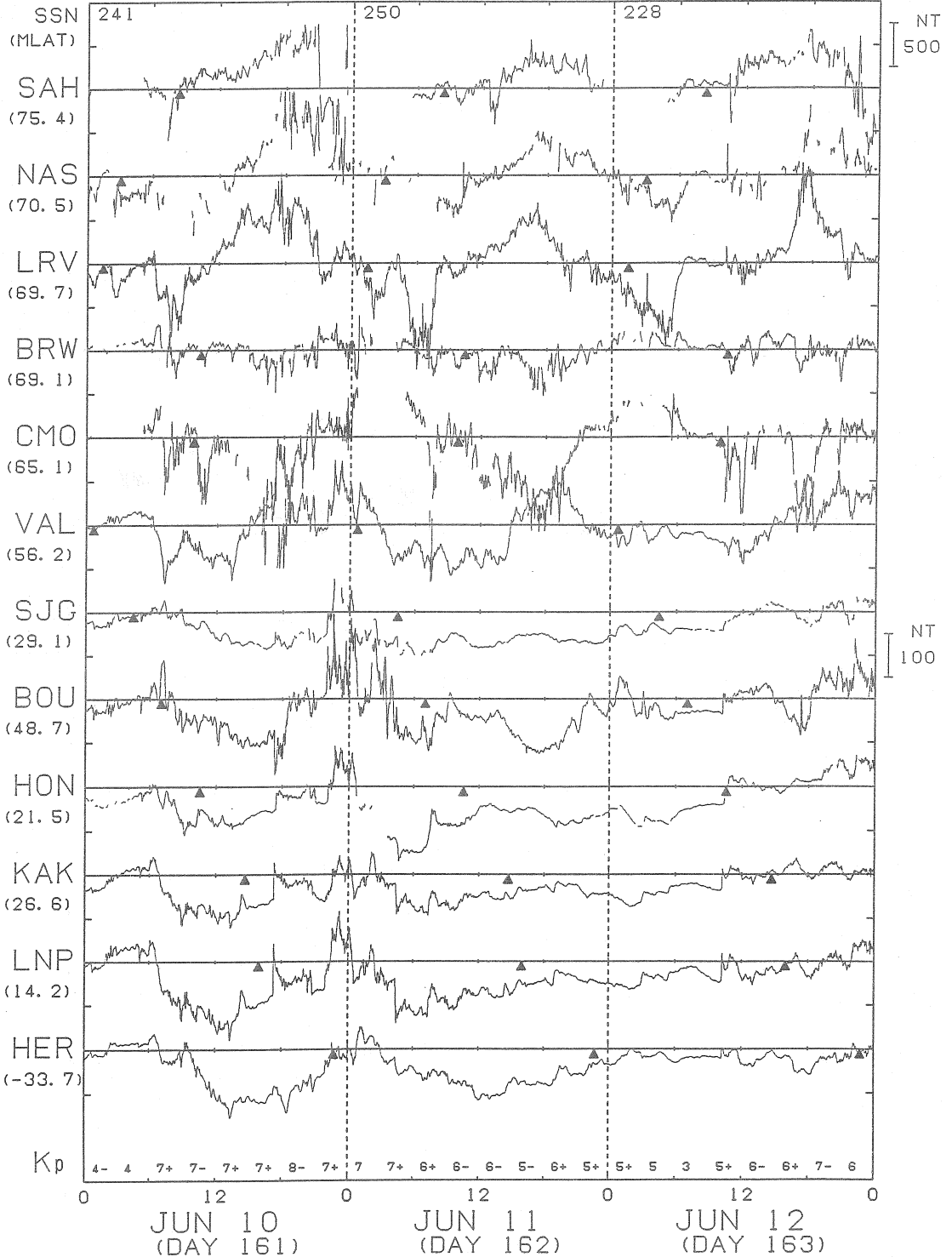
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1991 H OR X-COMPONENT

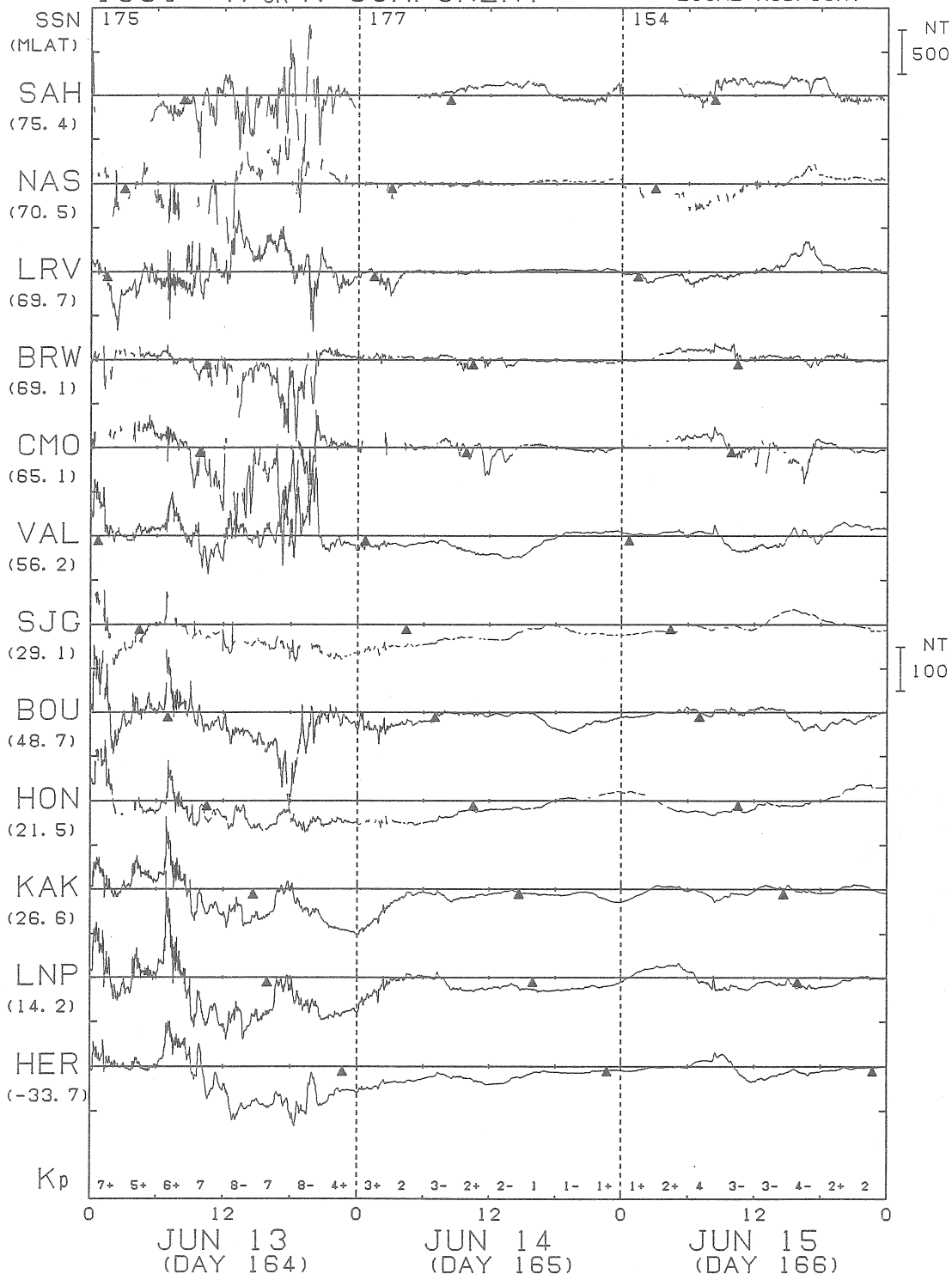
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

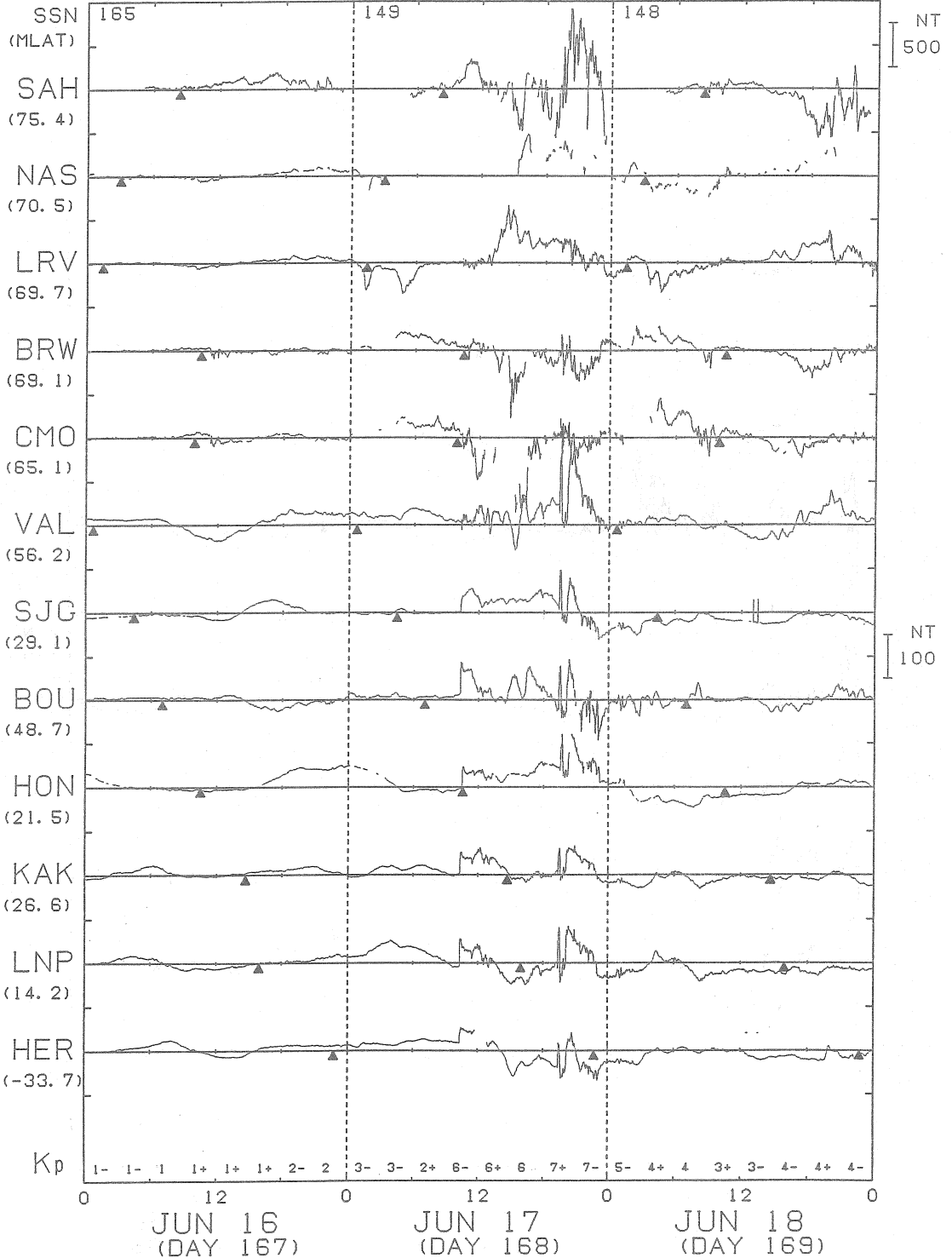
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

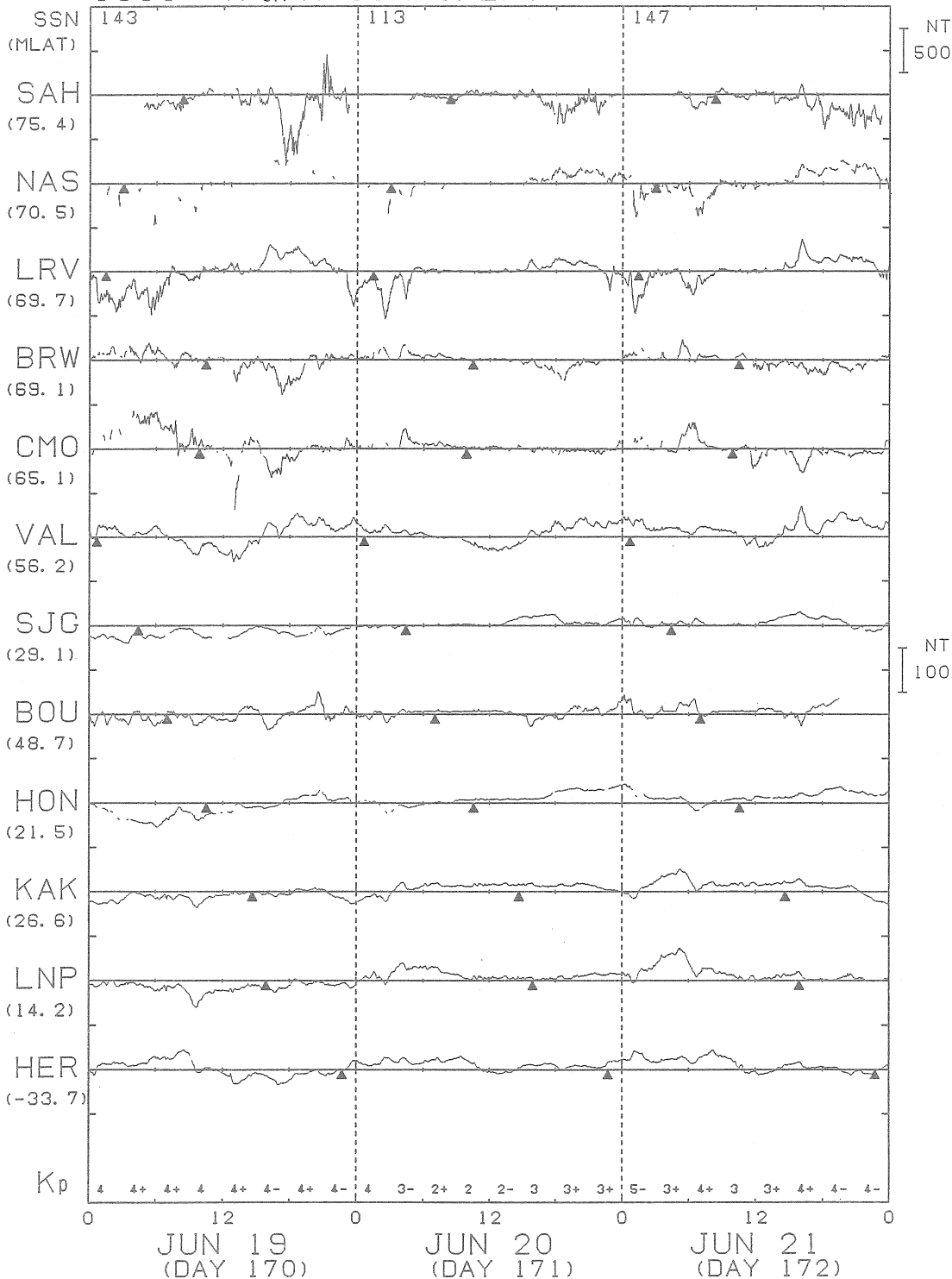
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

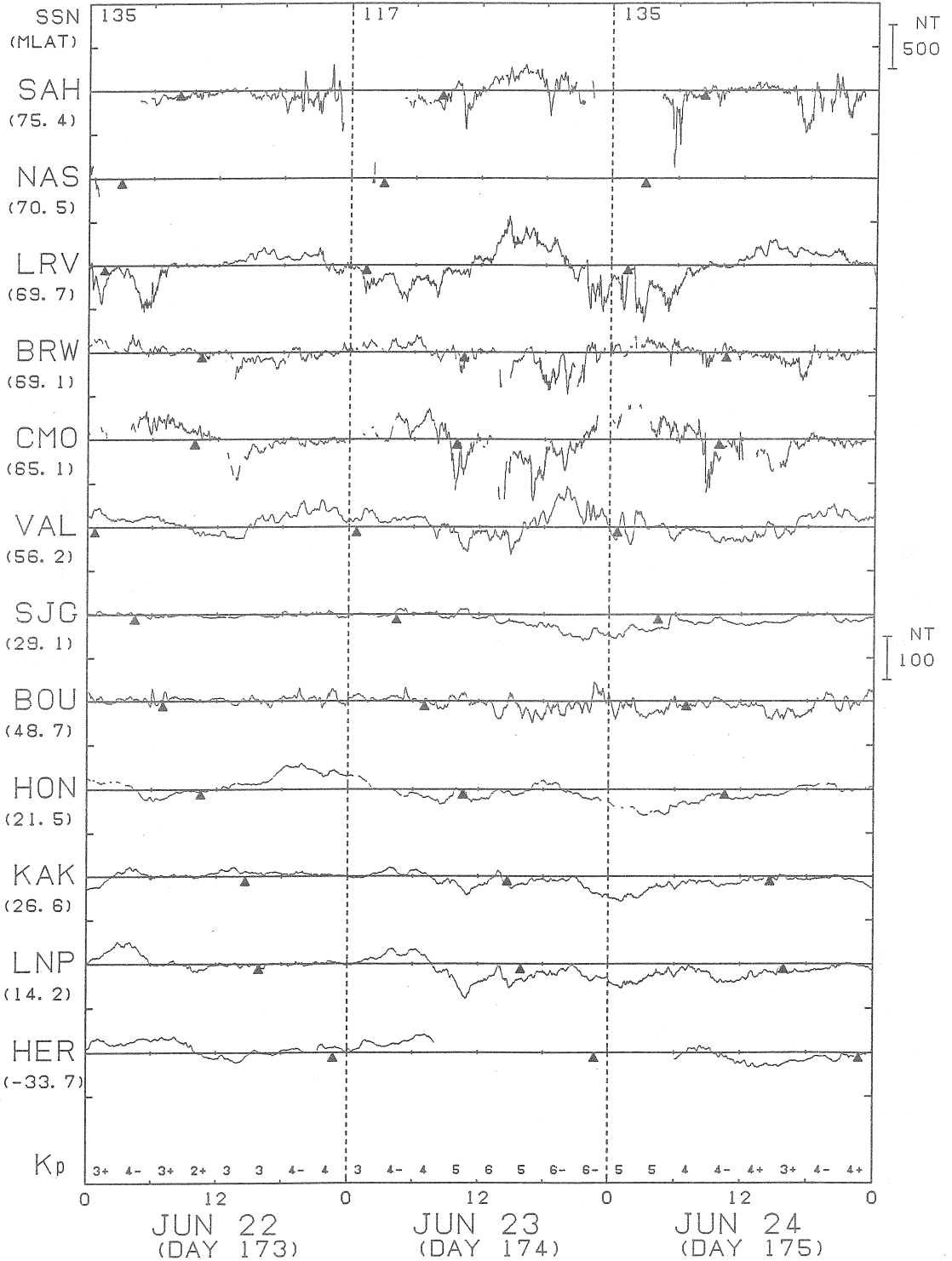
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

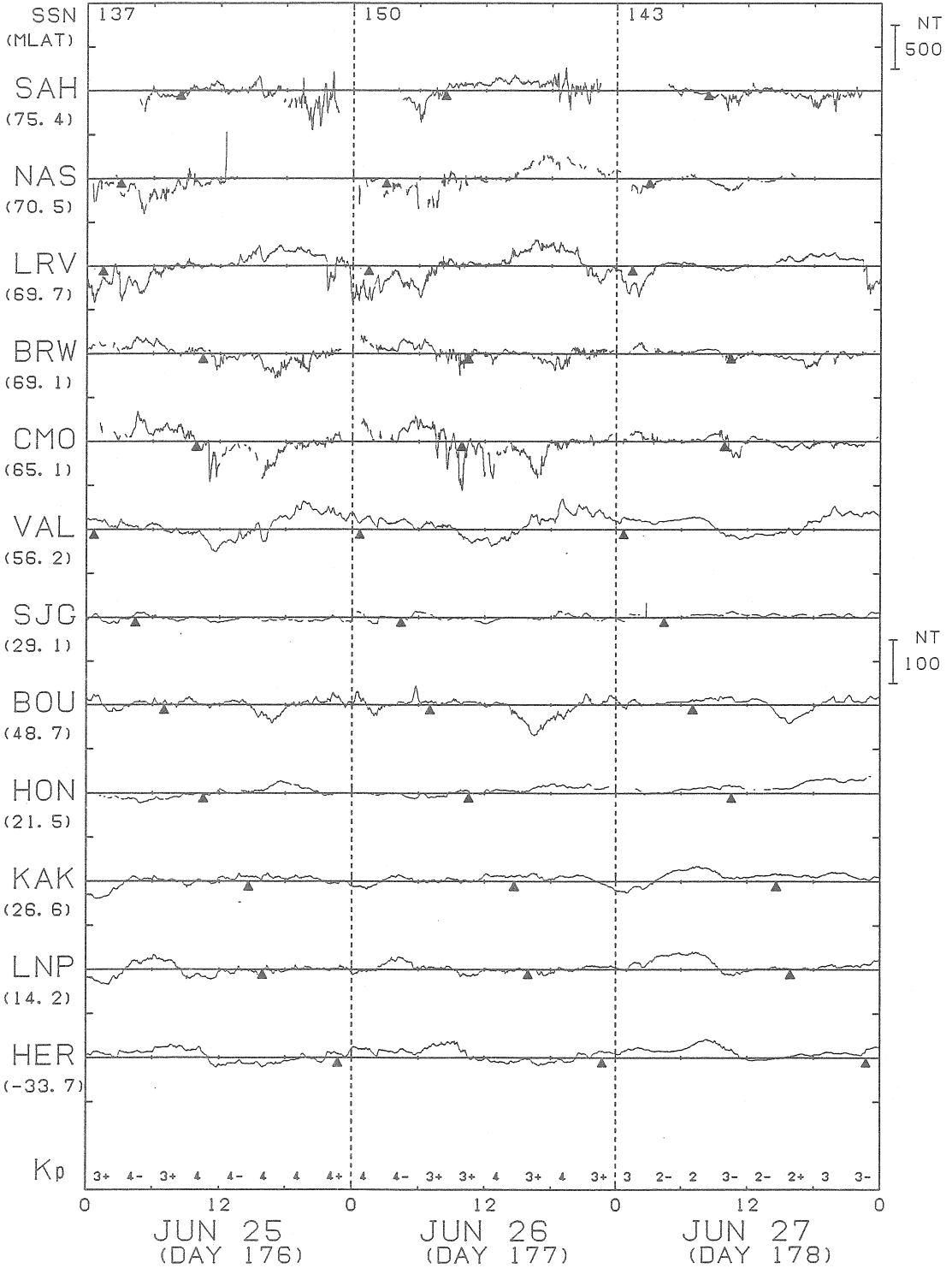
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

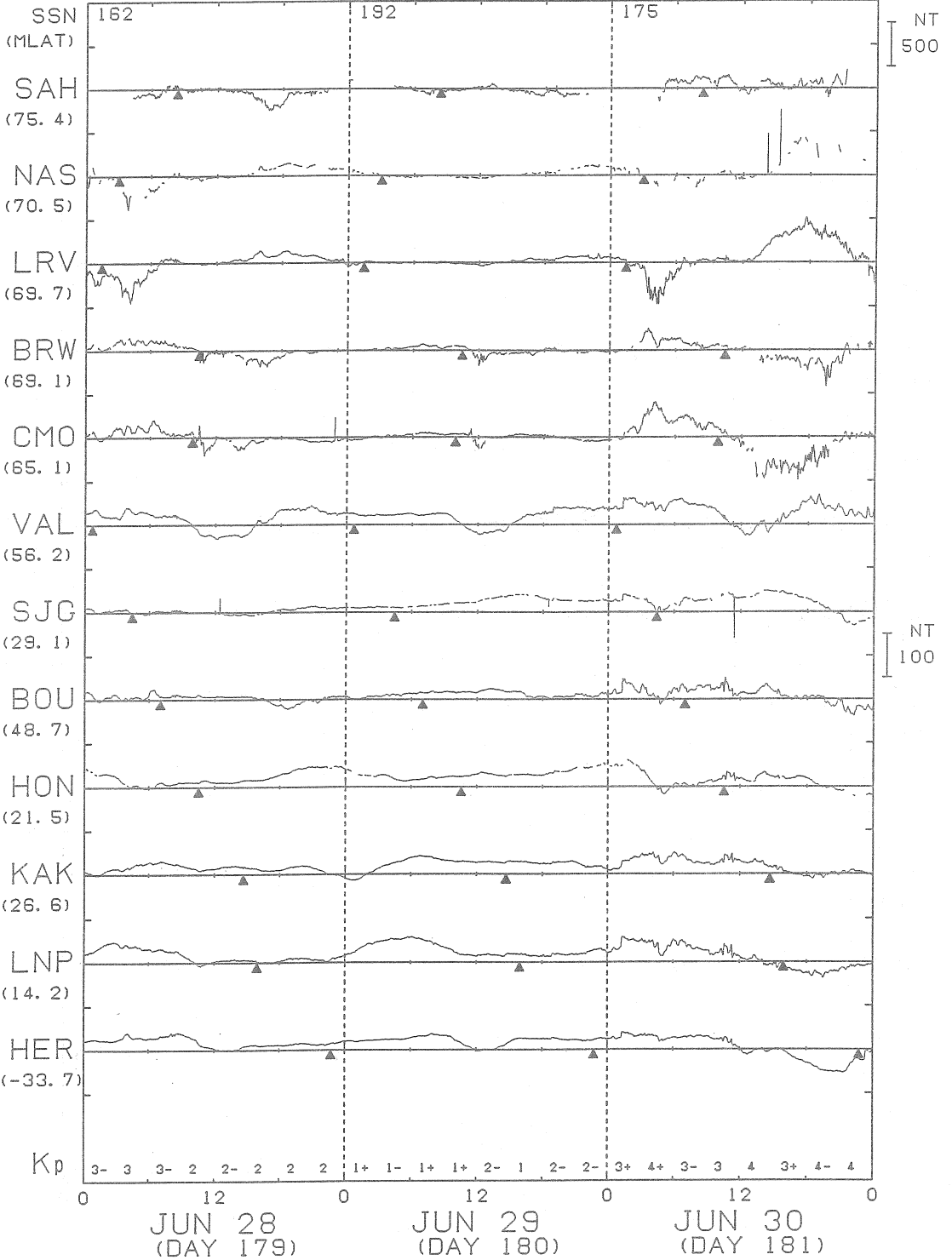
▲ : LOCAL MIDNIGHT



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