

**PROVISIONAL GEOMAGNETIC
DATA PLOTS**

No. 3

(July – December, 1990)

FEBRUARY 1991

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 July - December, 1990 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 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.

For further information or for the digital data, please refer to:

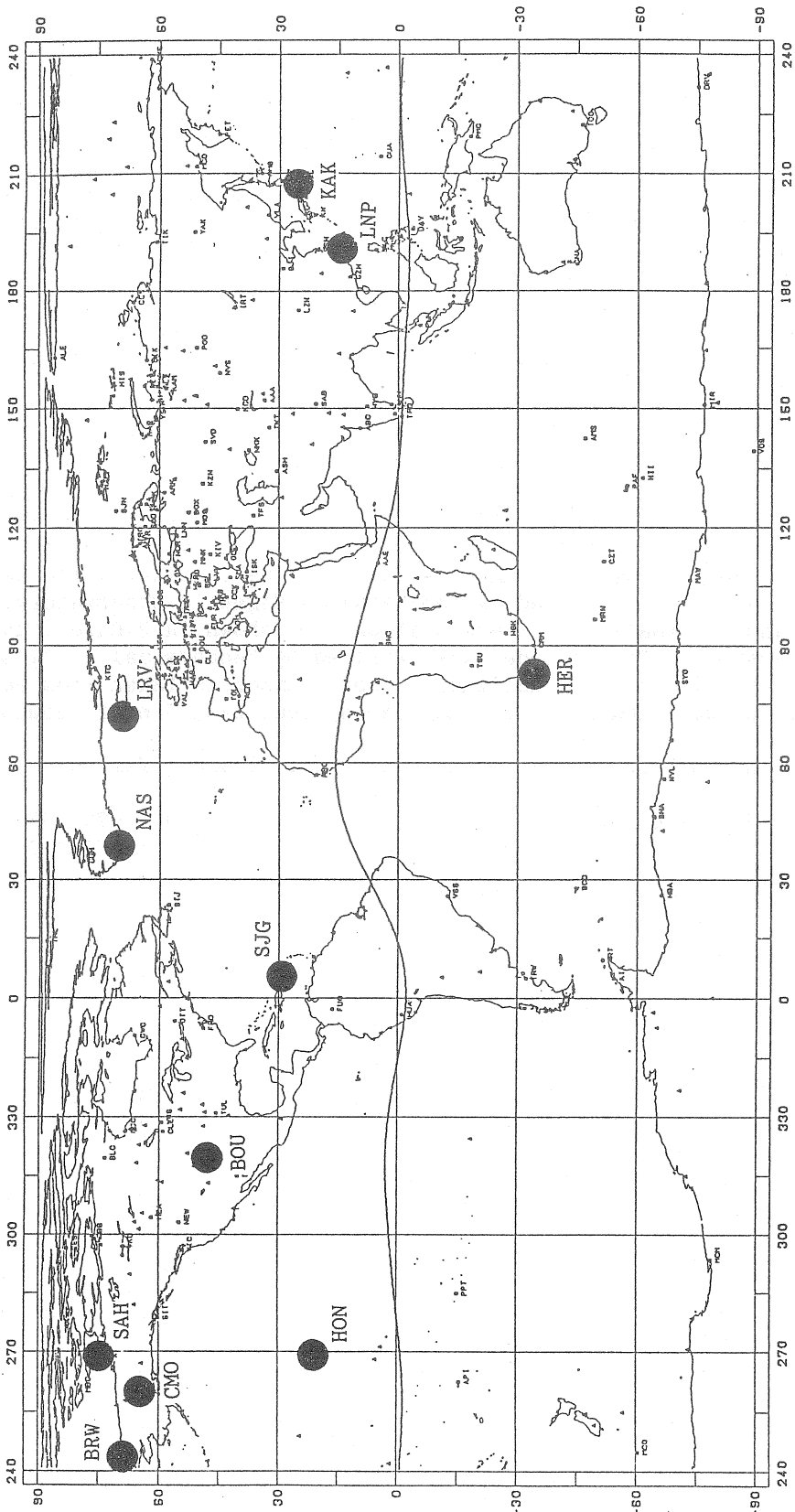
WDC-C2 for Geomagnetism
Faculty of Science, Kyoto University
Kyoto 606, Japan

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	"
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	"
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

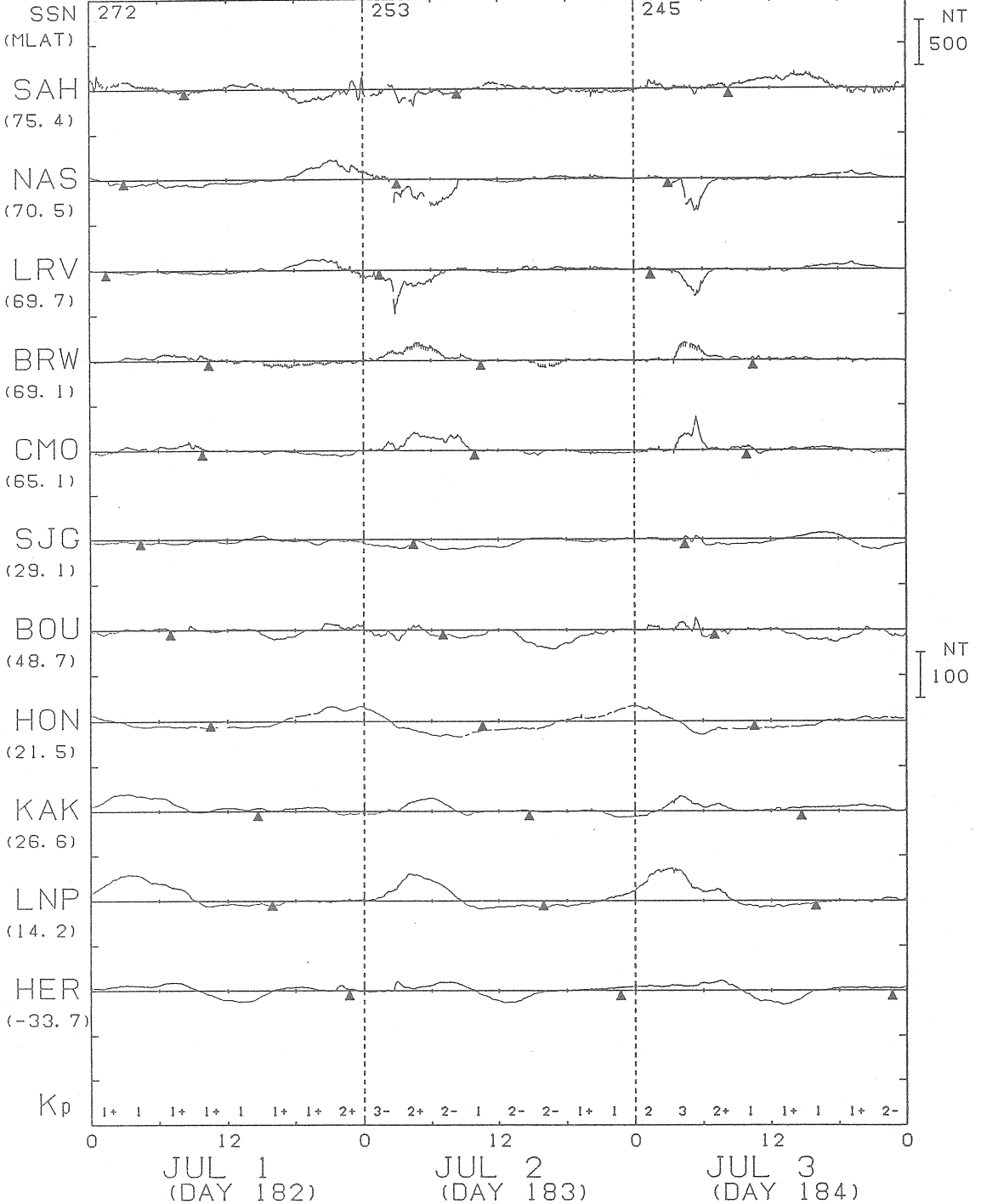
Fig.1 Data are obtained at the observatories shown by the solid circles.

JULY 1990

(DAY 182 - 212)

1990 H OR X-COMPONENT

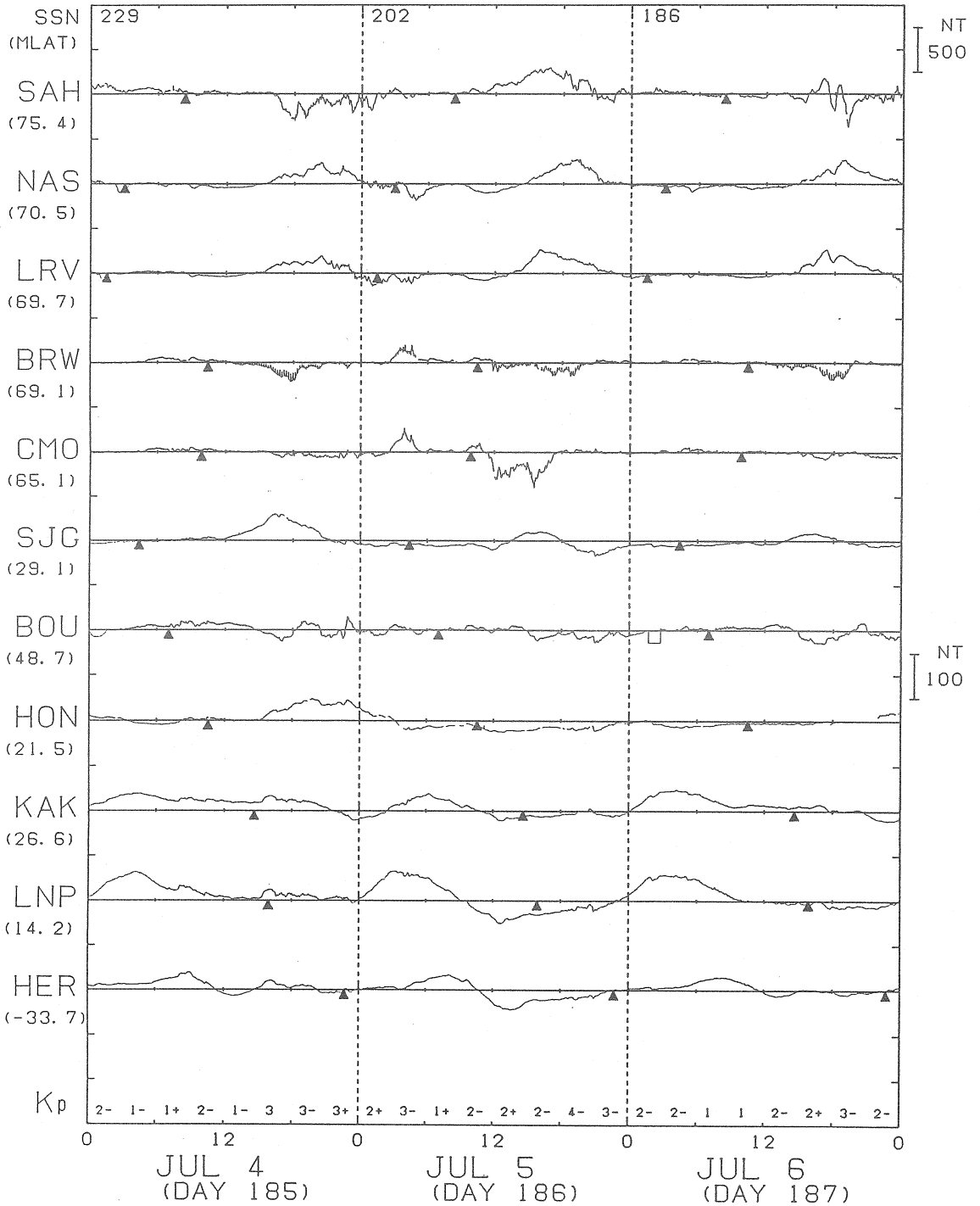
▲ : LOCAL MIDNIGHT



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

1990 H OR X-COMPONENT

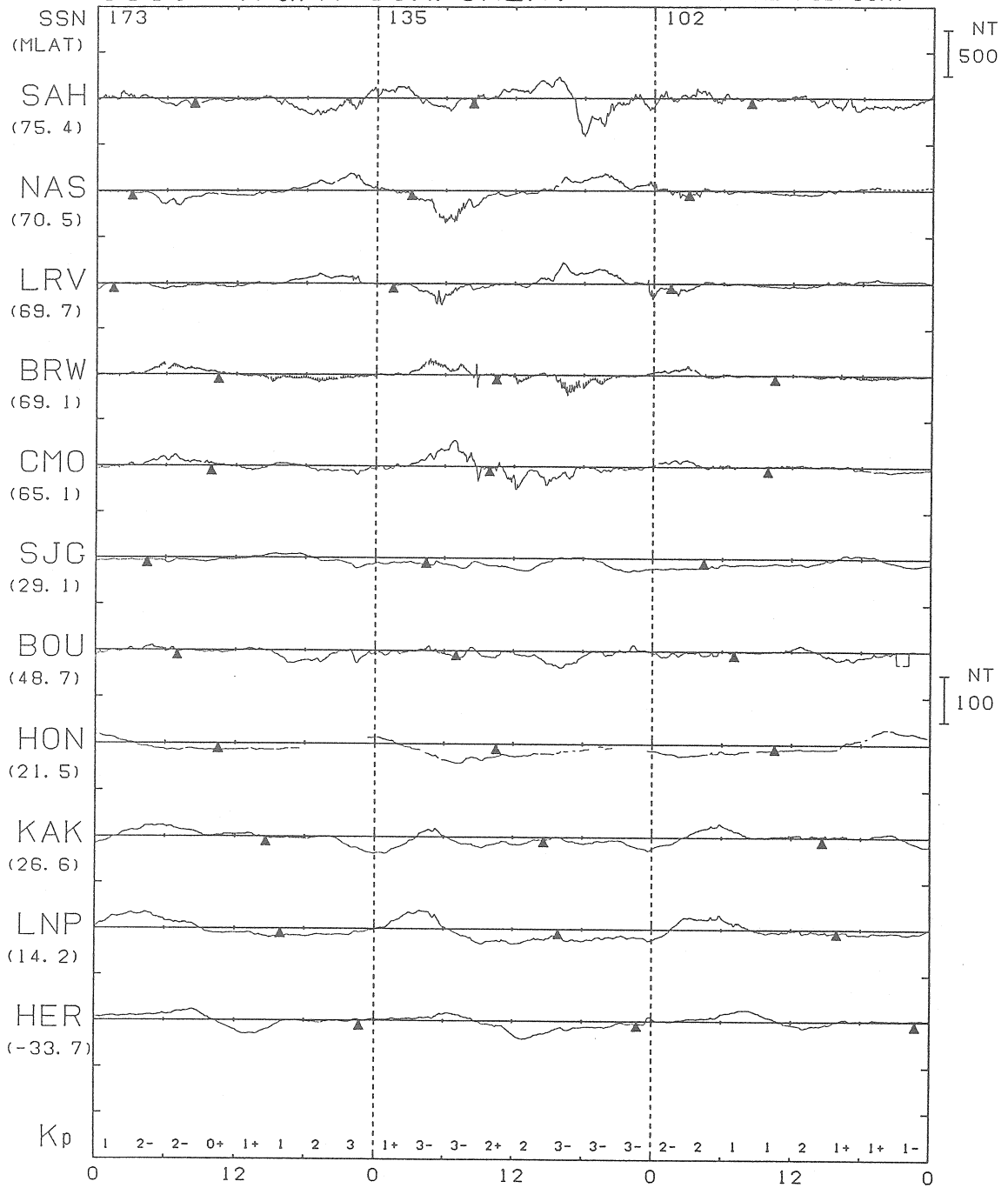
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

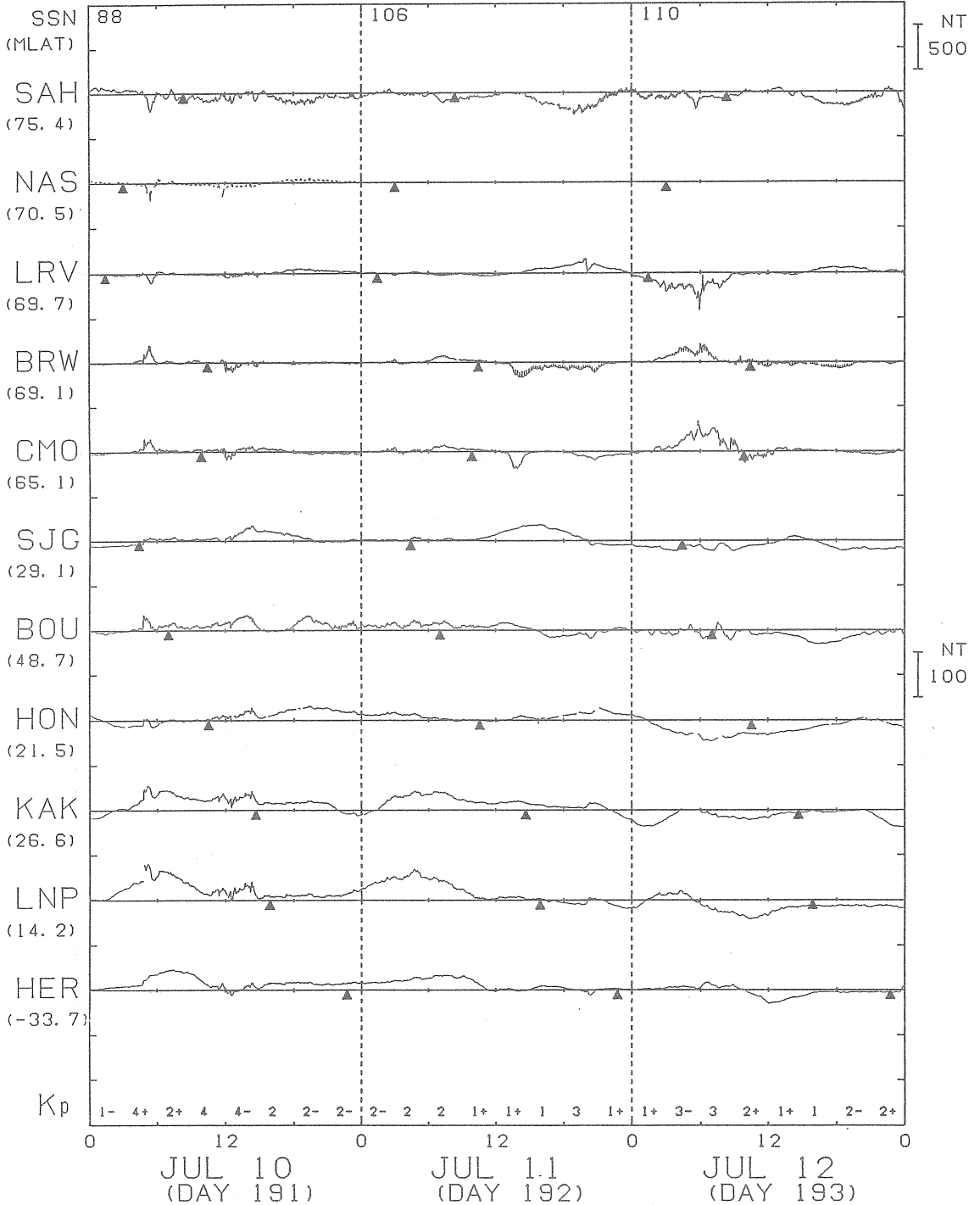
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1990 H OR X-COMPONENT

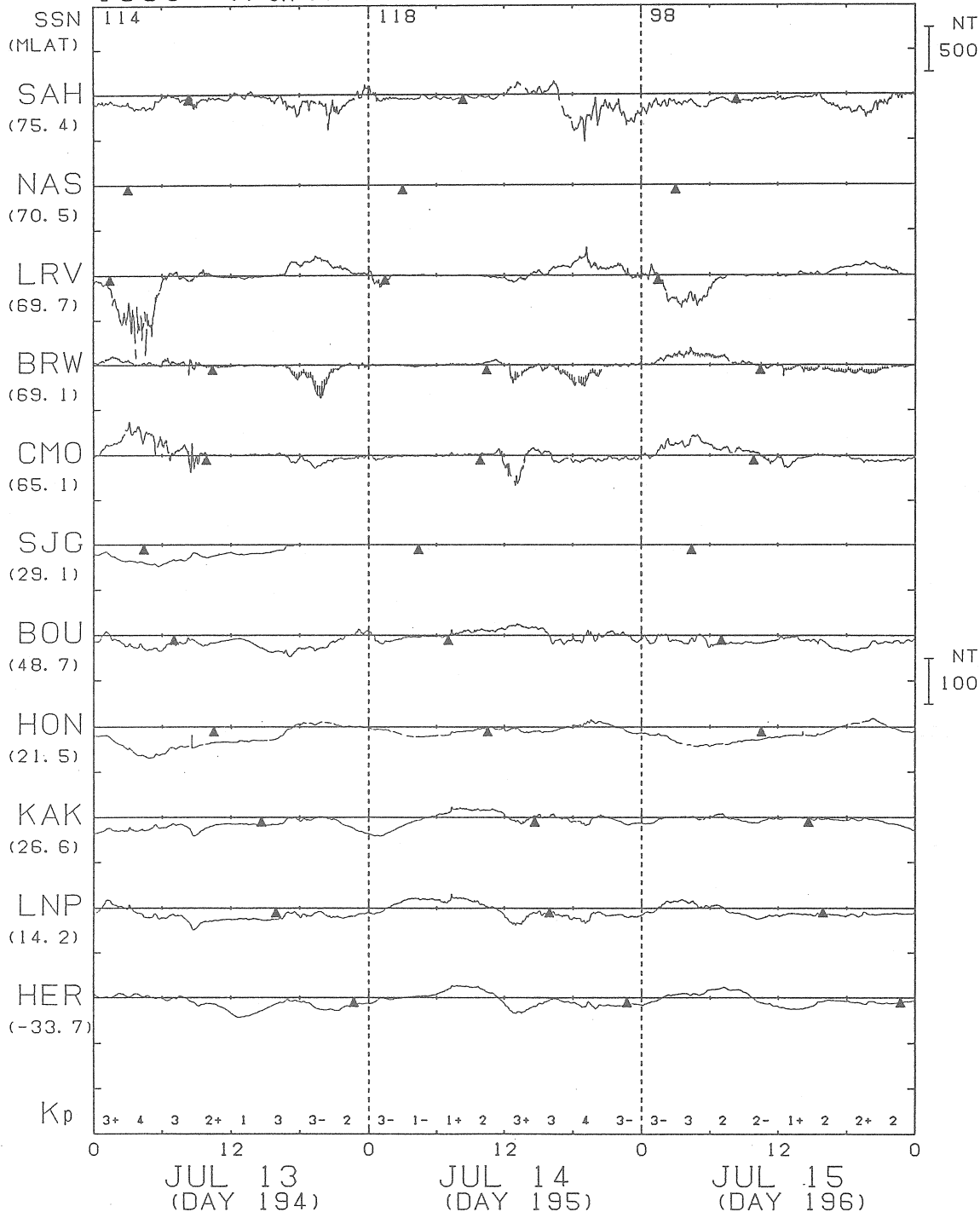
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1990 H OR X-COMPONENT

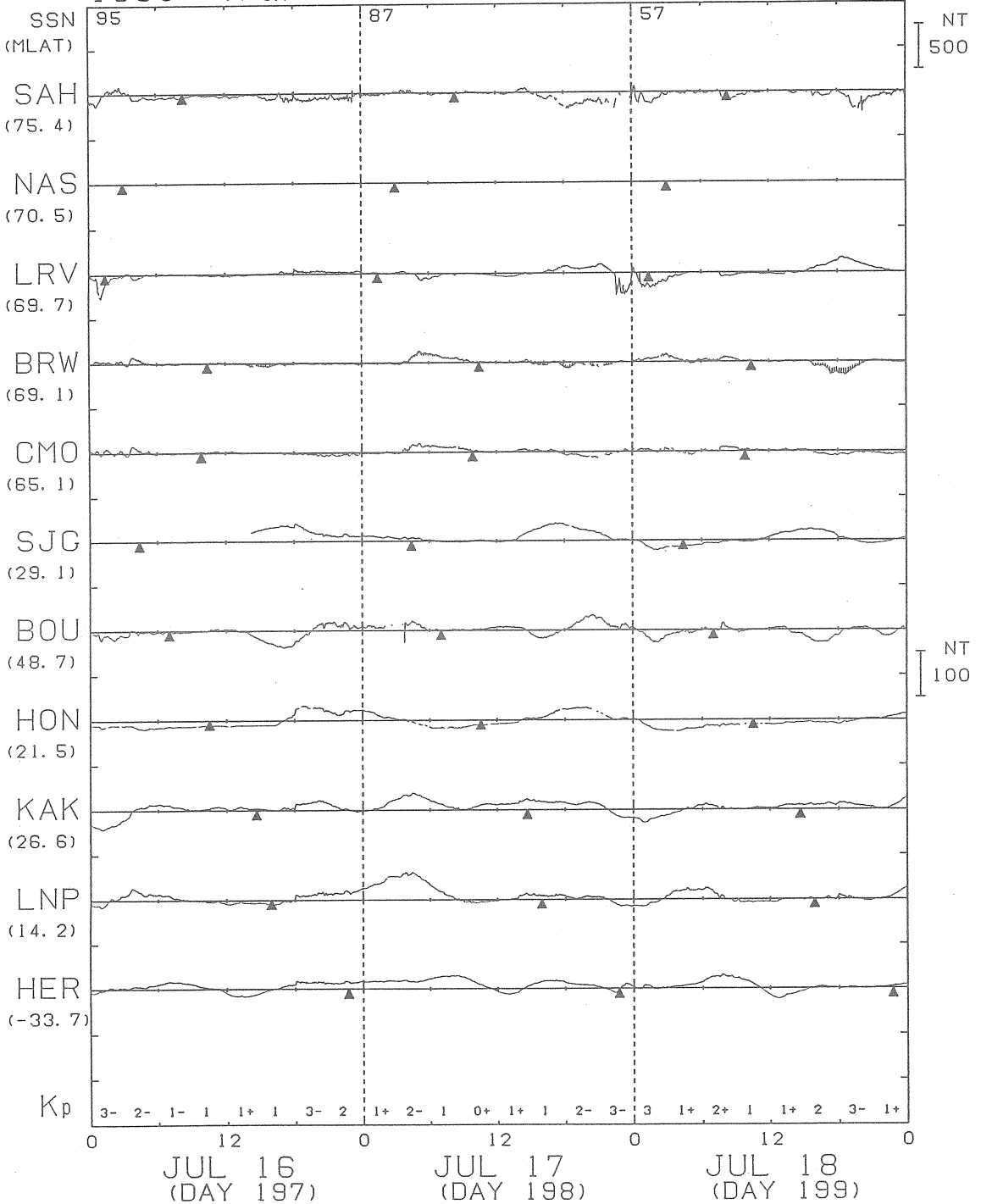
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1990 H or X-COMPONENT

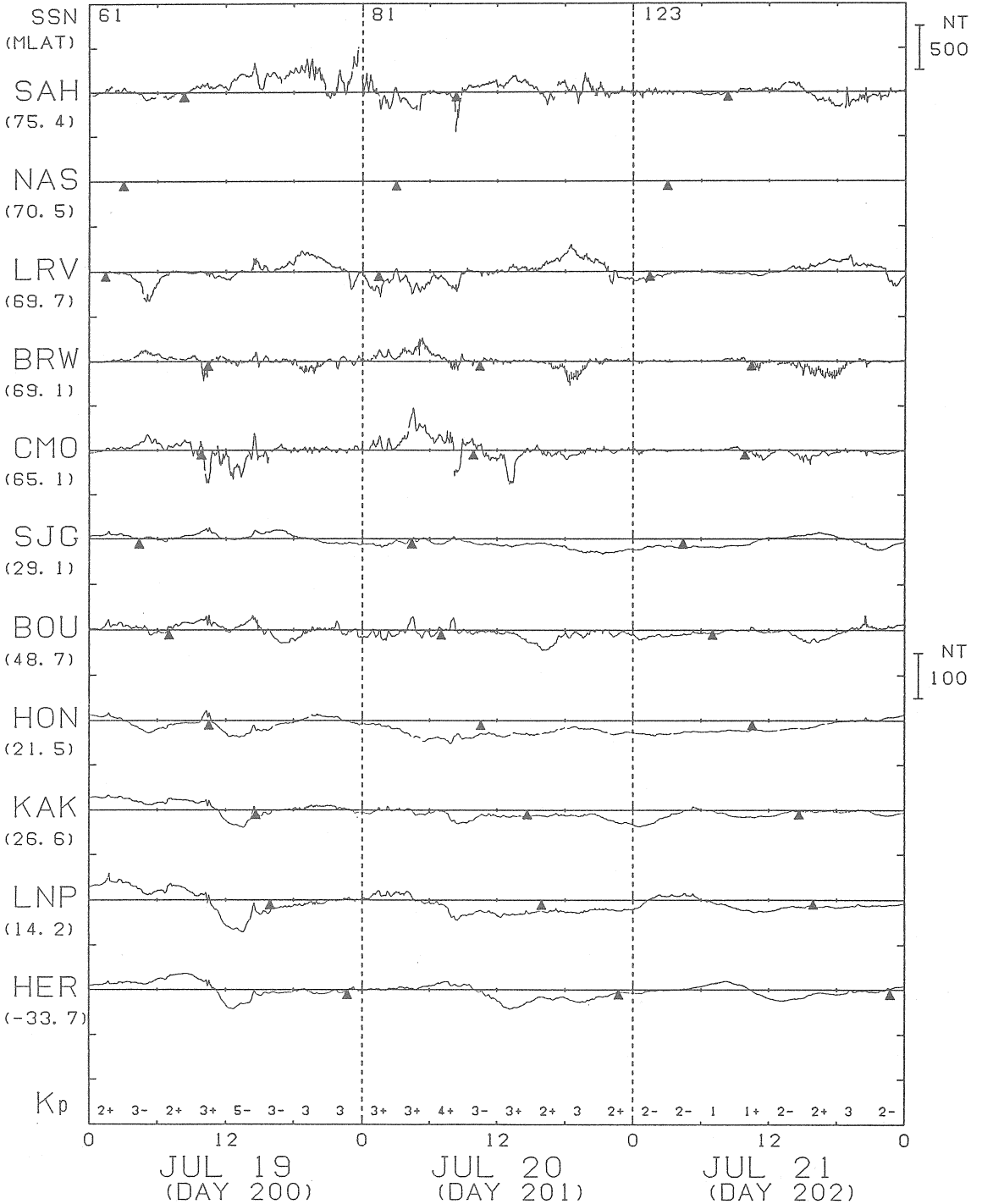
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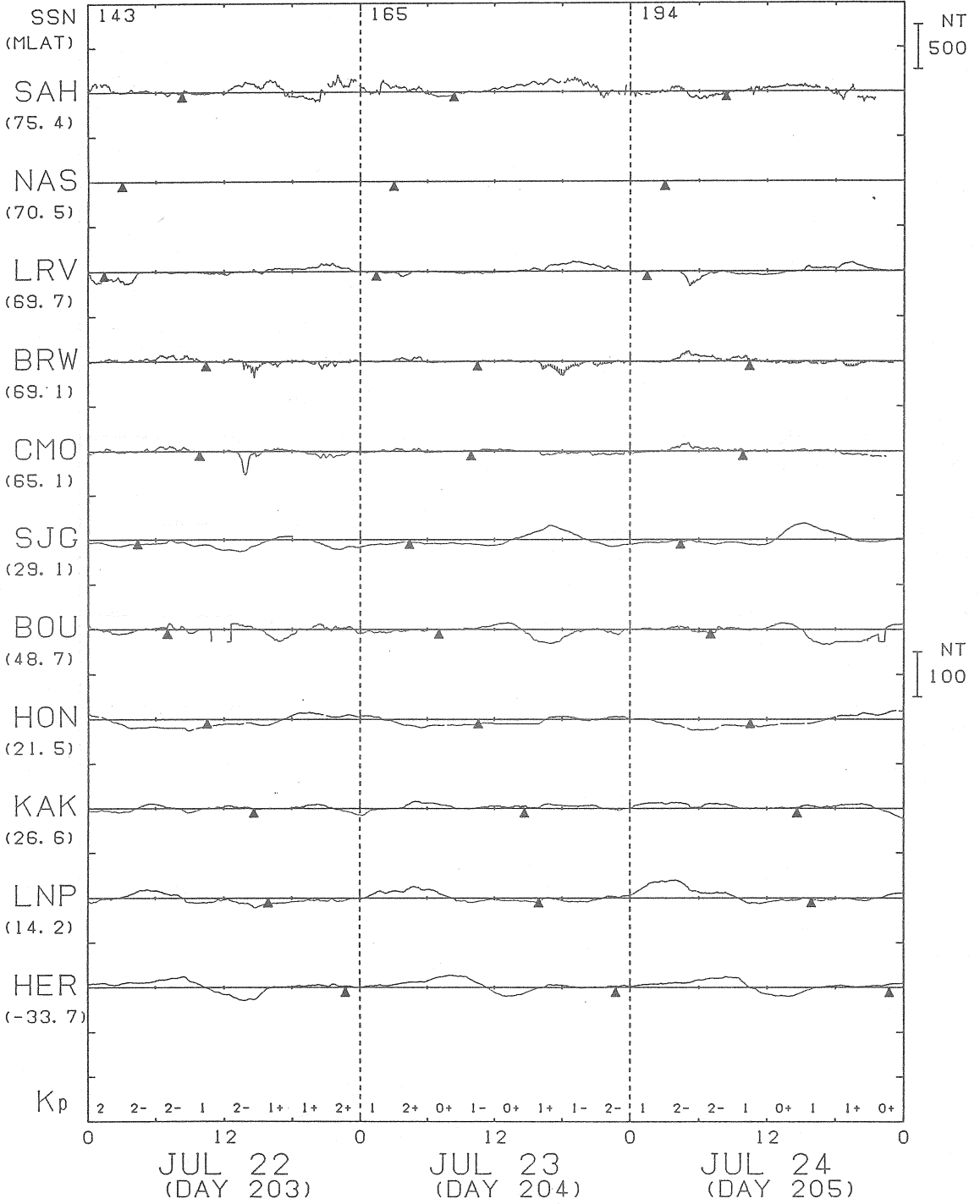
1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



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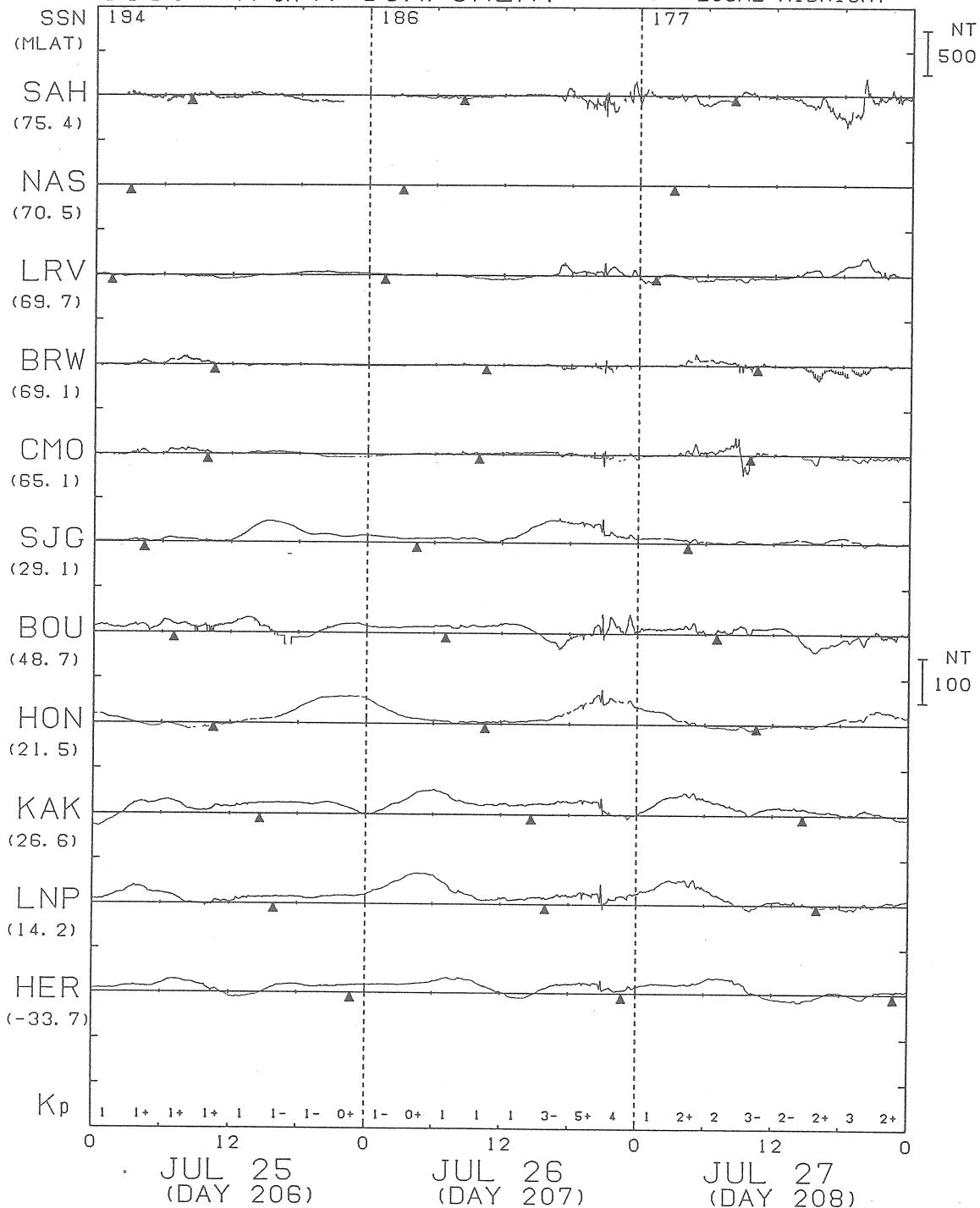
1990 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

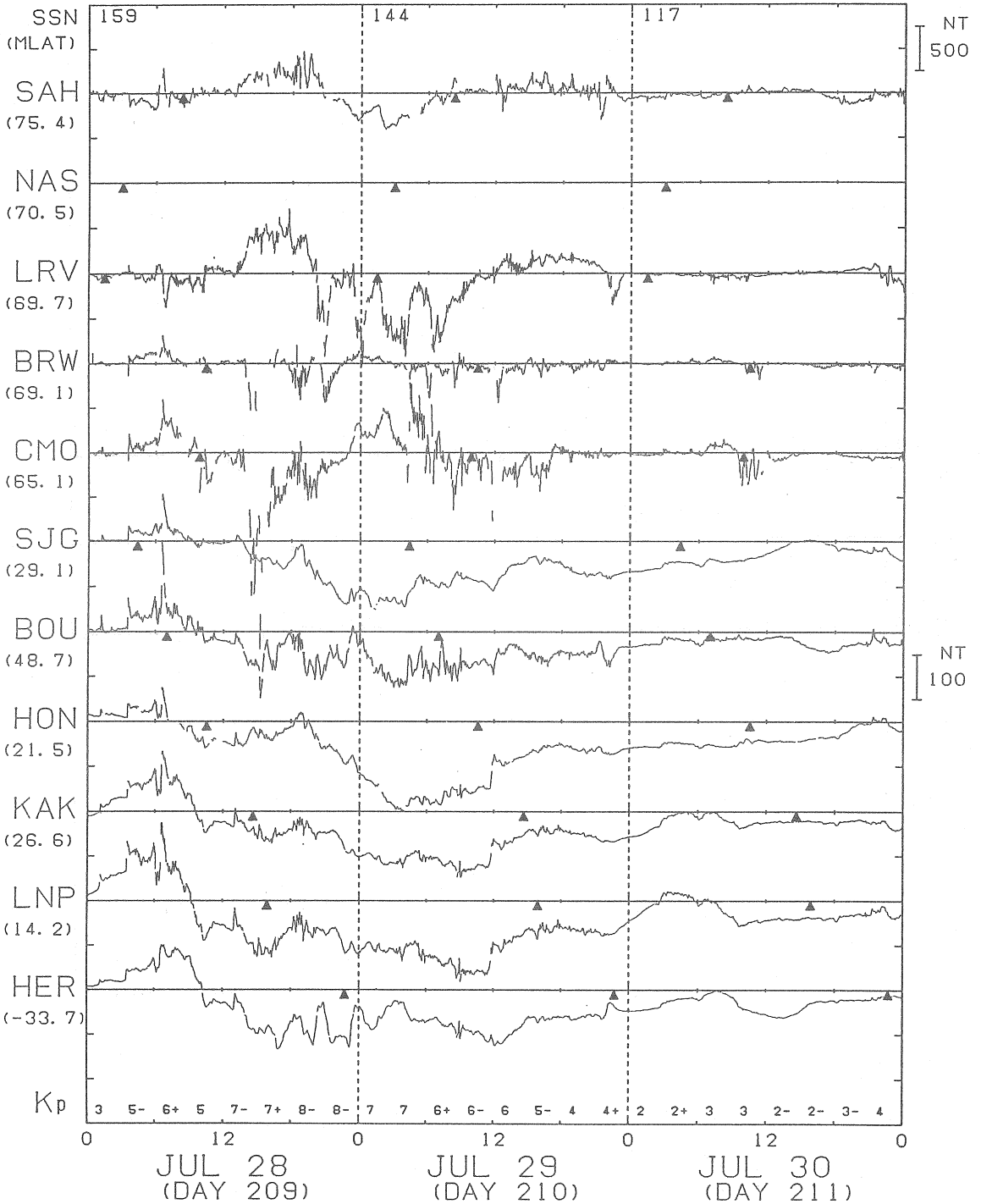
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1990 H OR X-COMPONENT

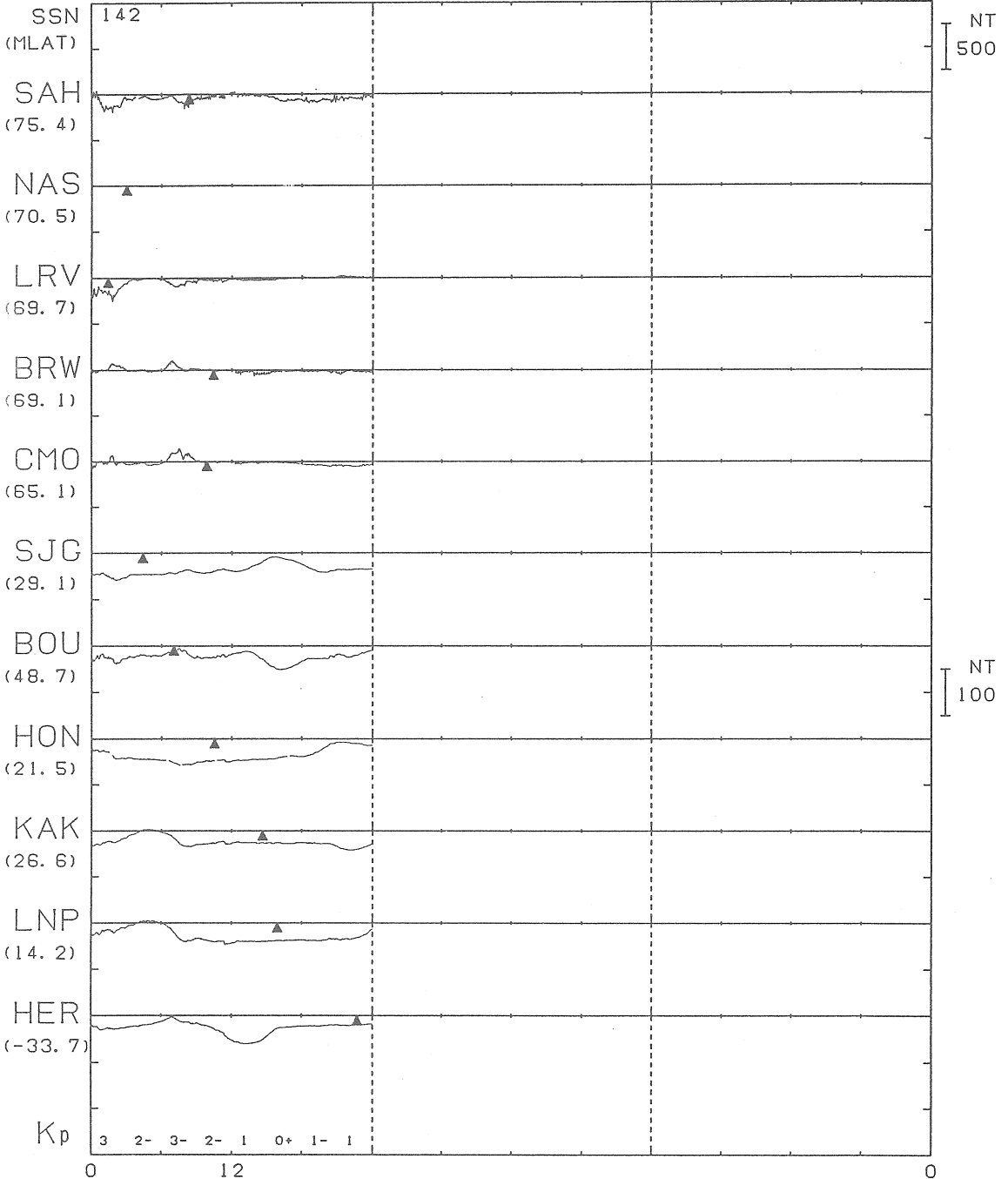
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* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



JUL 31
(DAY 212)

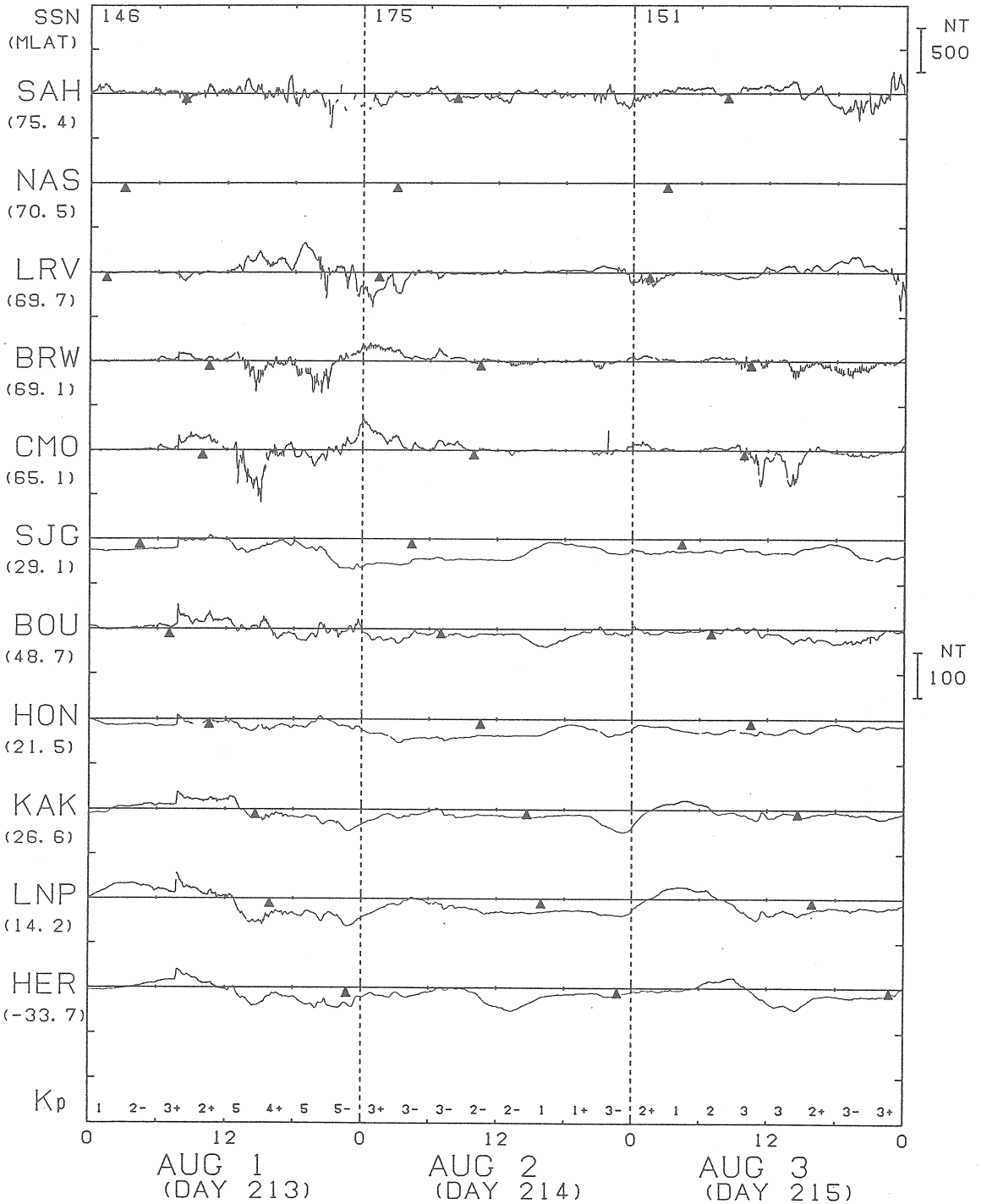
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AUGUST 1990

(DAY 213 - 243)

1990 H OR X-COMPONENT

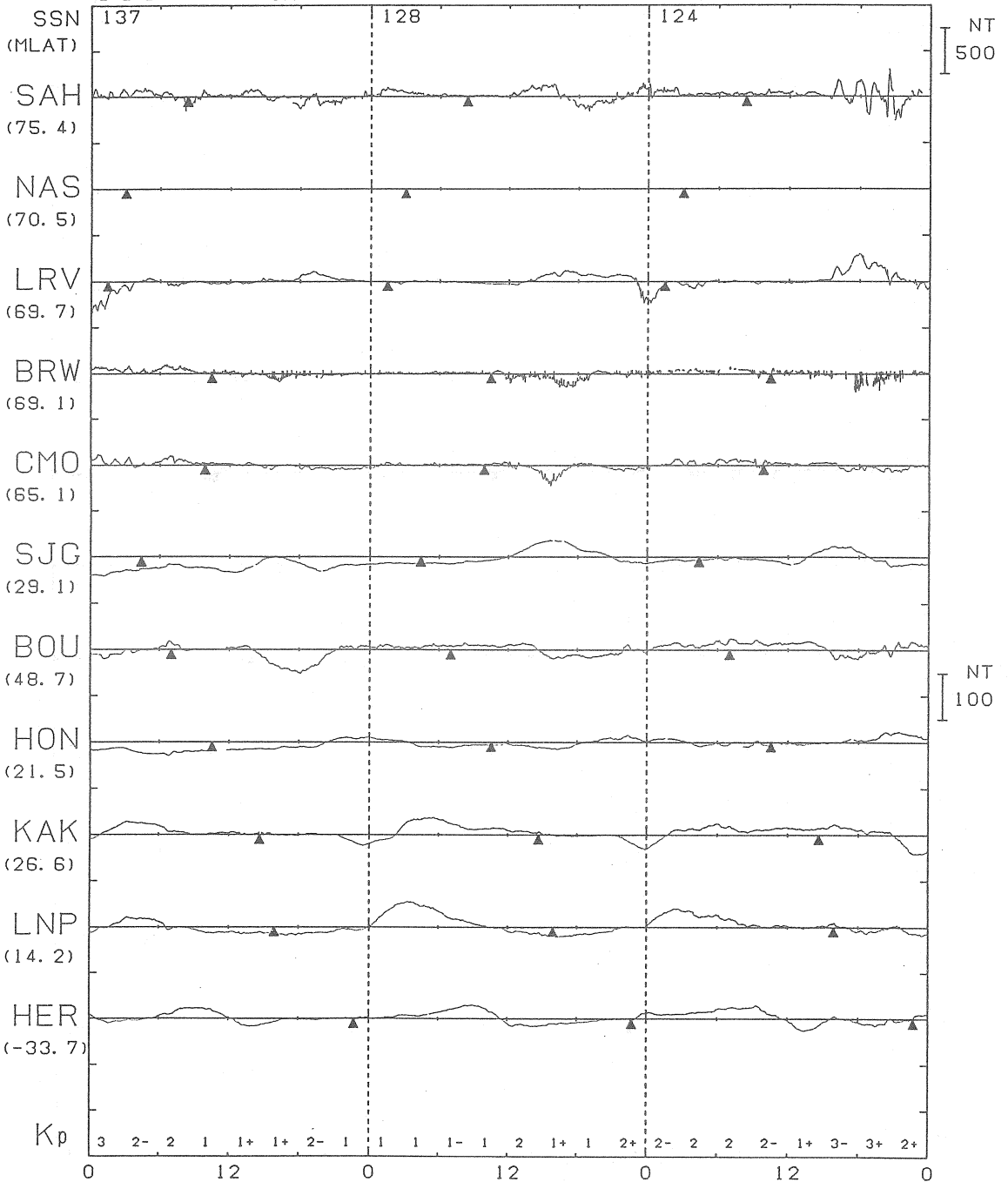
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1990 H OR X-COMPONENT

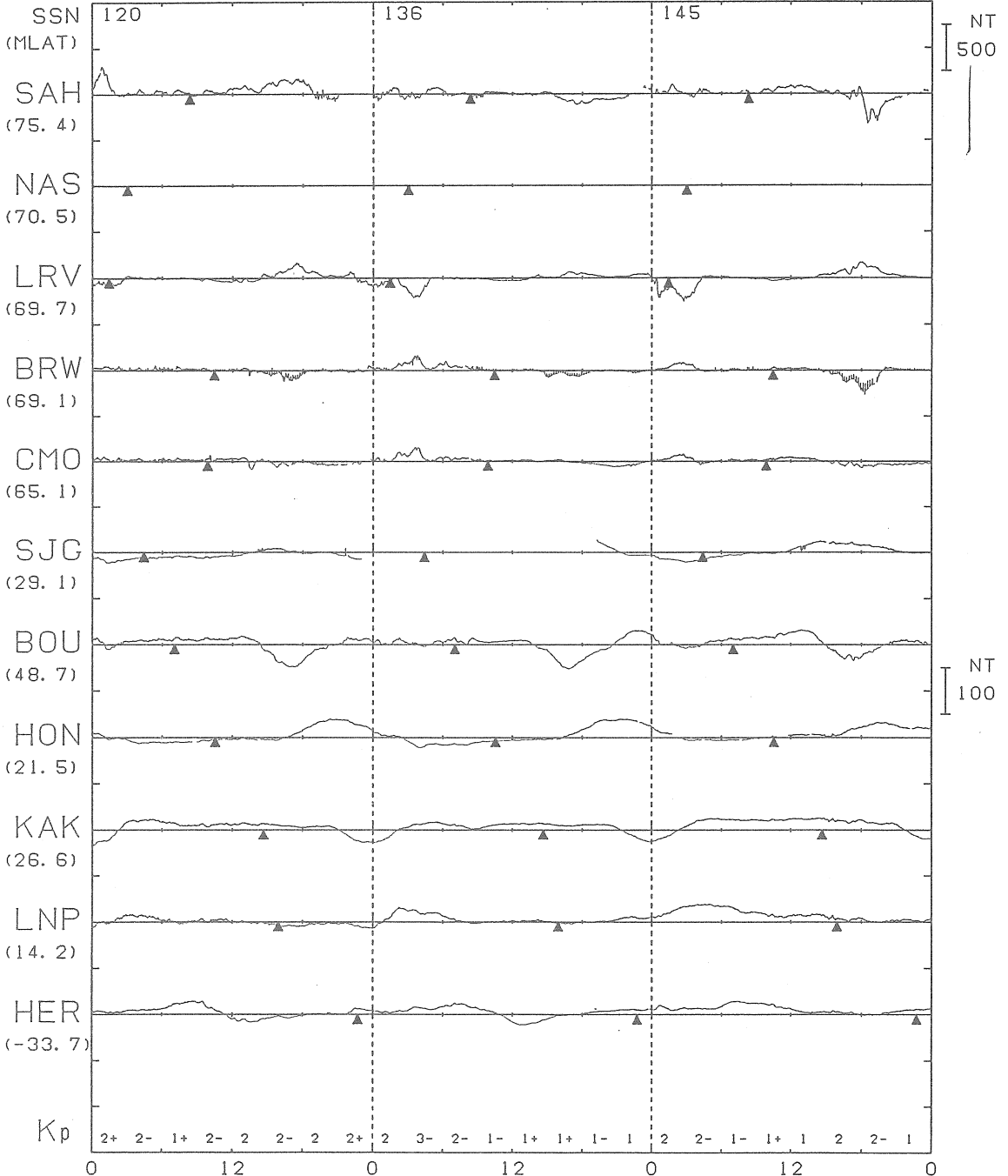
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1990 H OR X-COMPONENT

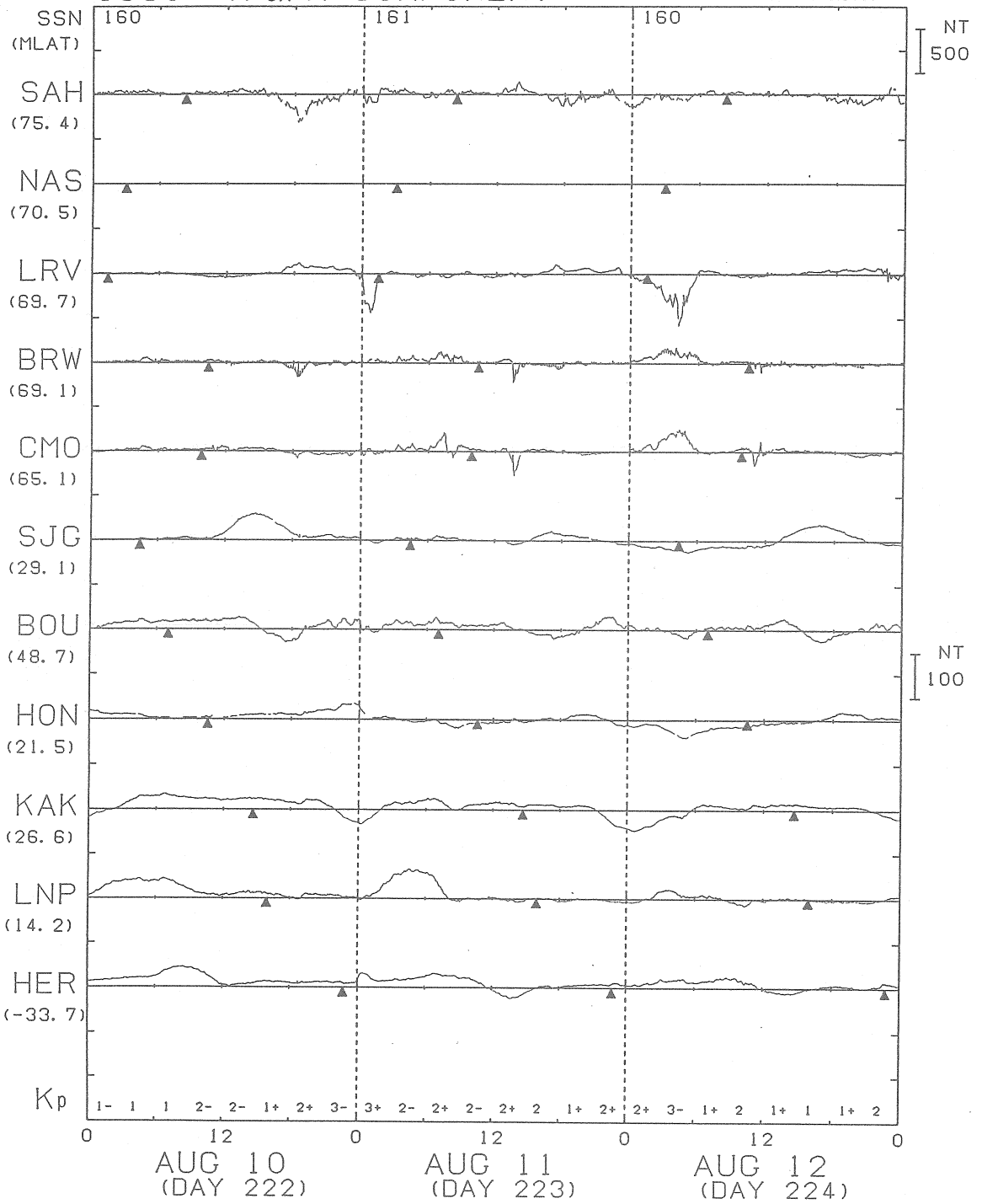
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1990 H OR X-COMPONENT

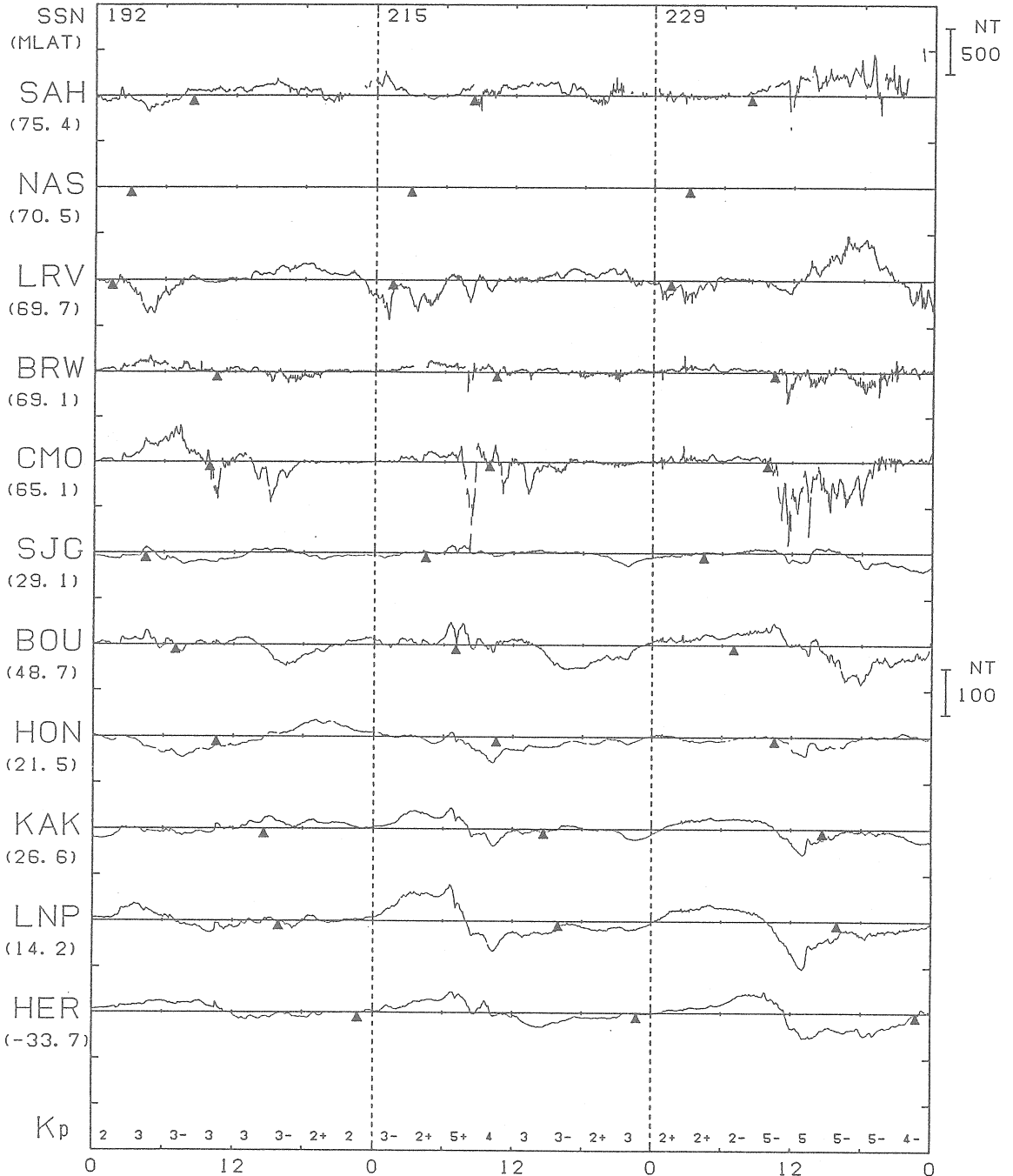
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1990 H OR X-COMPONENT

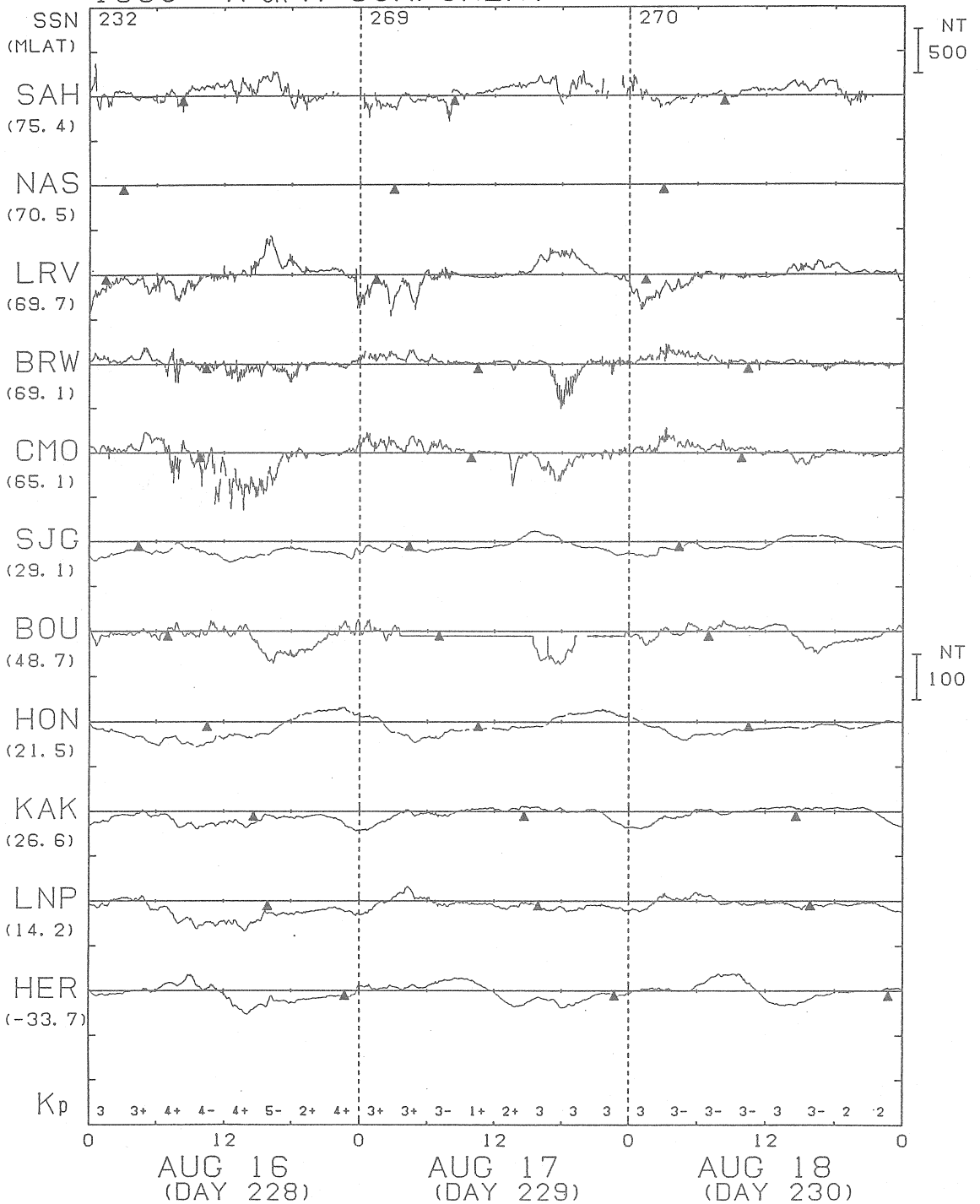
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

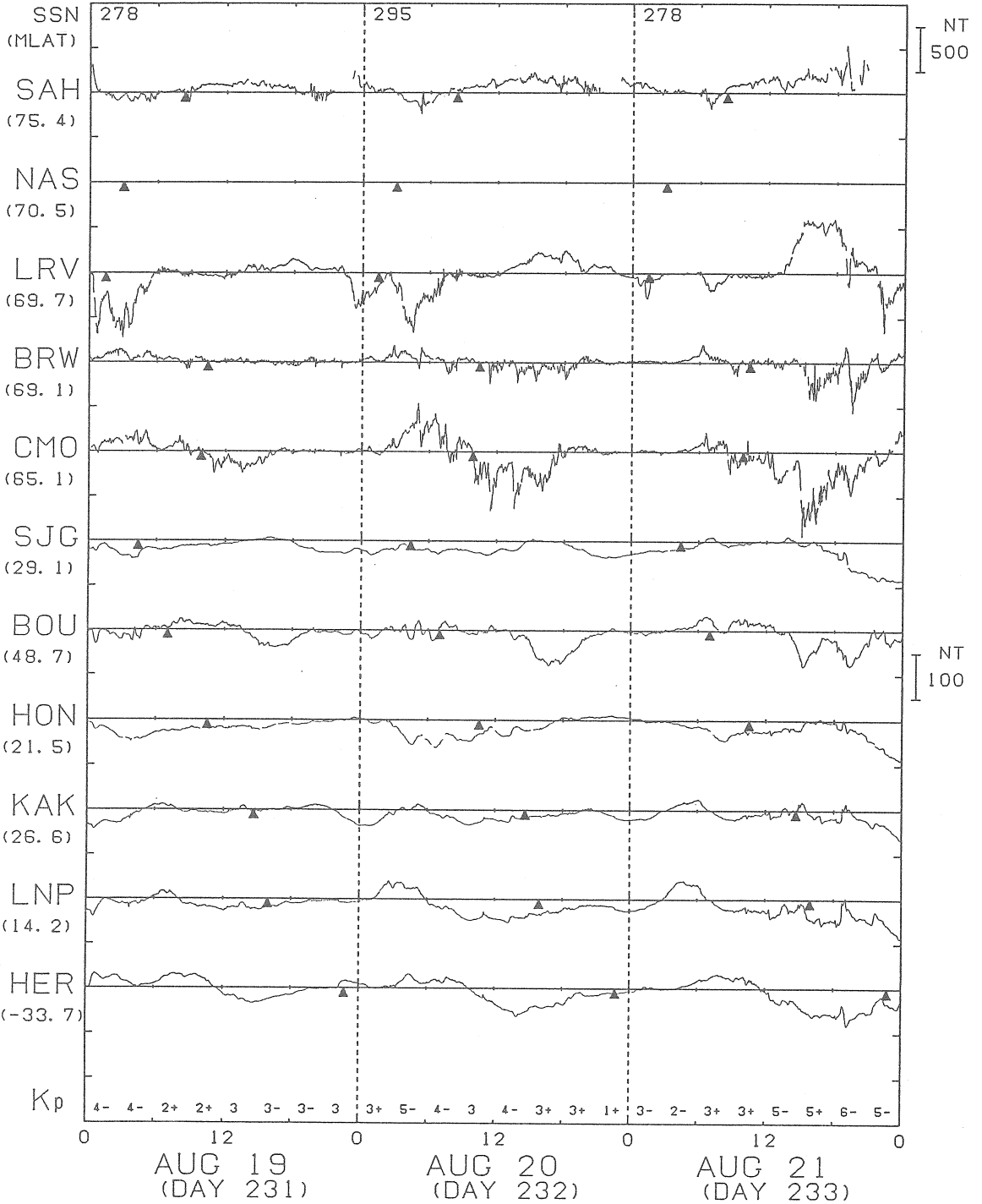
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1990 H OR X-COMPONENT

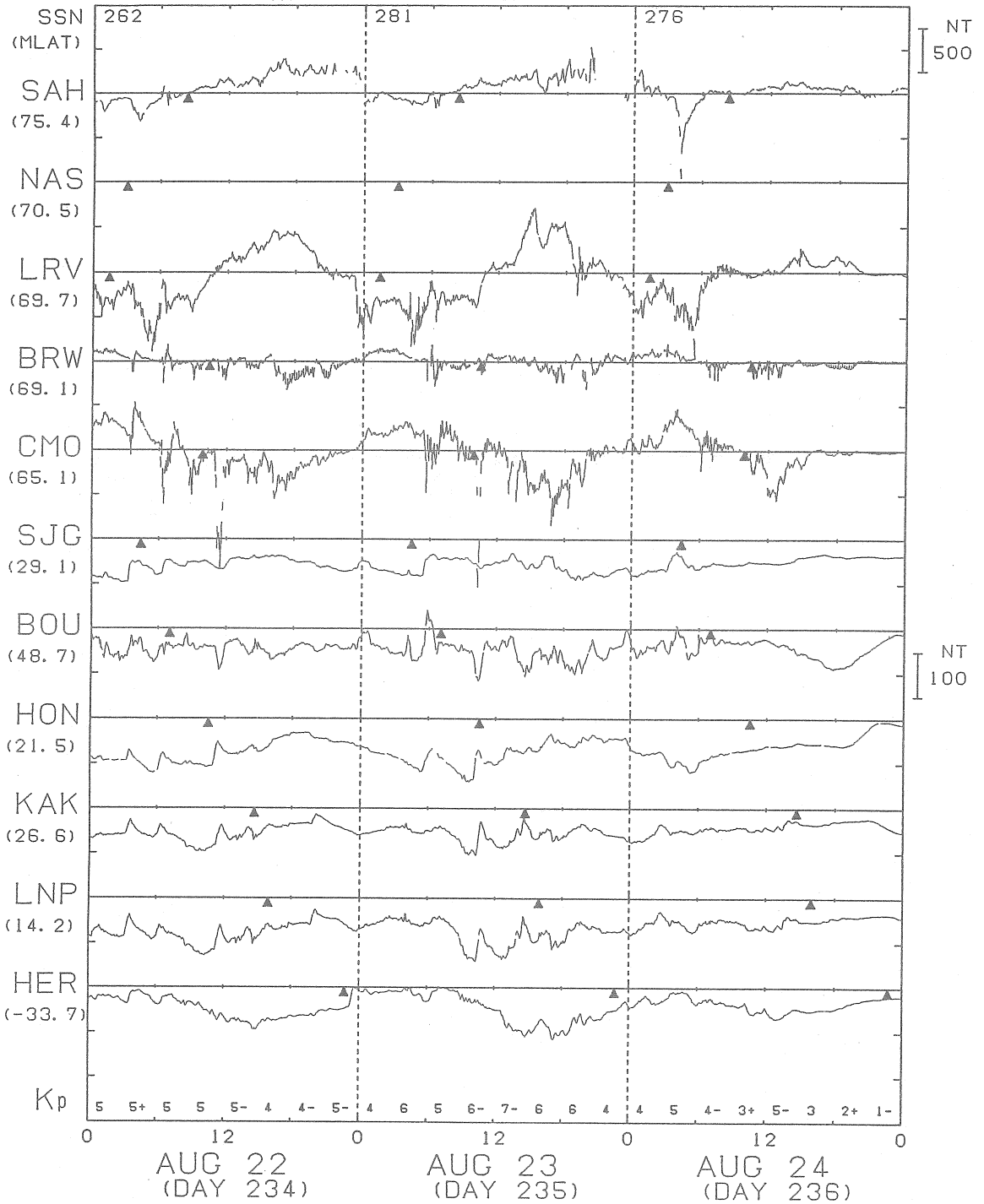
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1990 H OR X-COMPONENT

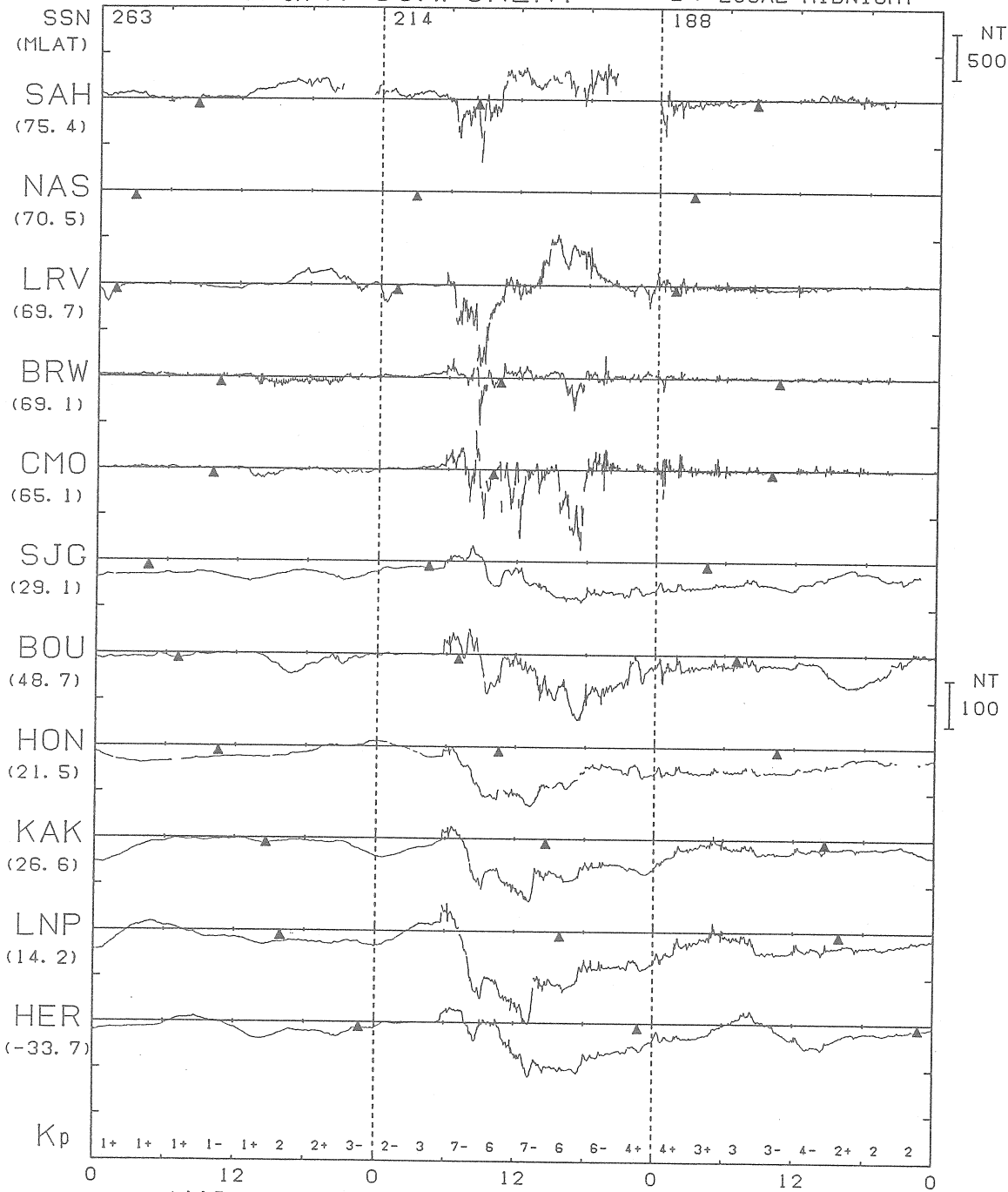
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1990 H OR X-COMPONENT

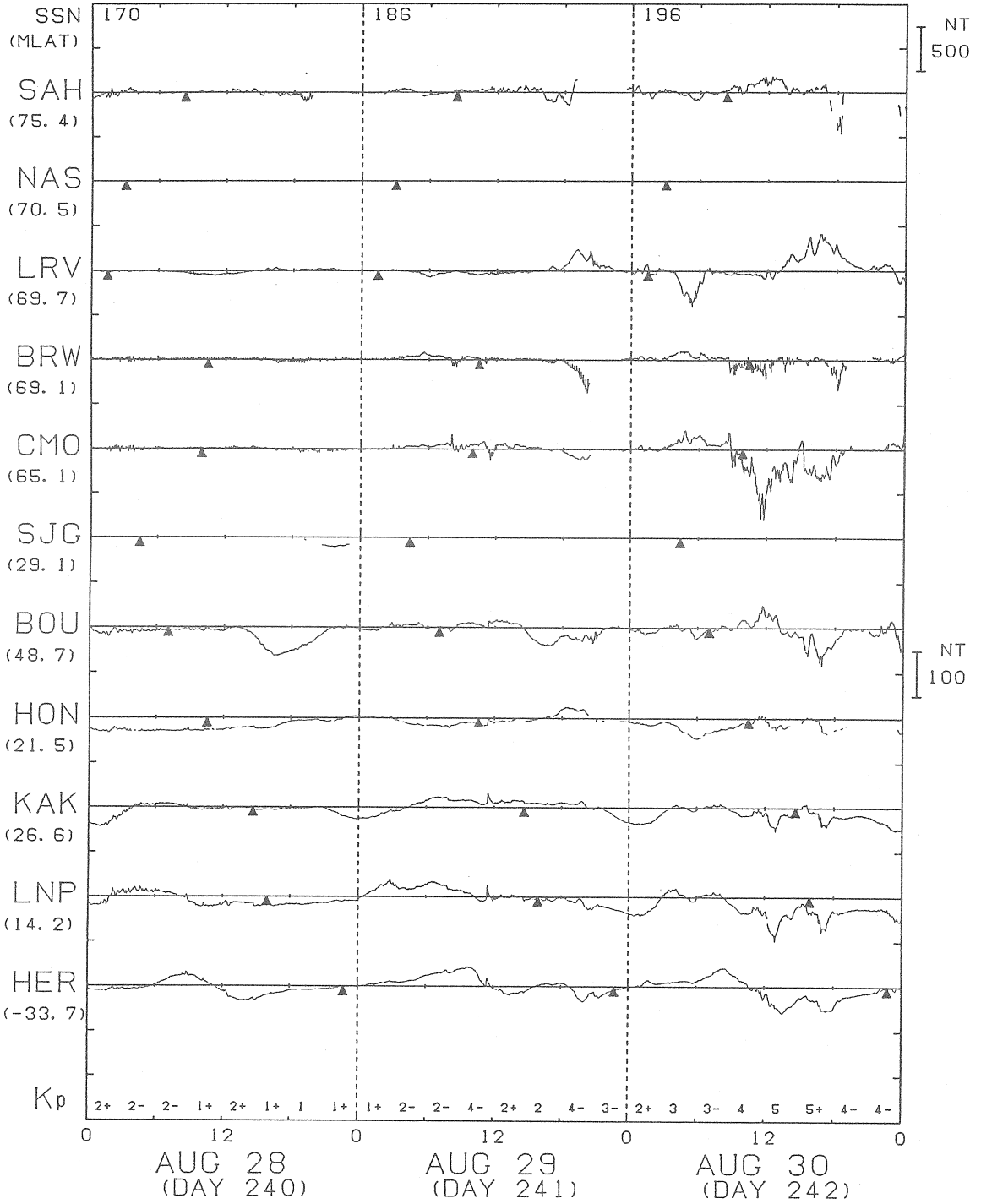
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1990 H OR X-COMPONENT

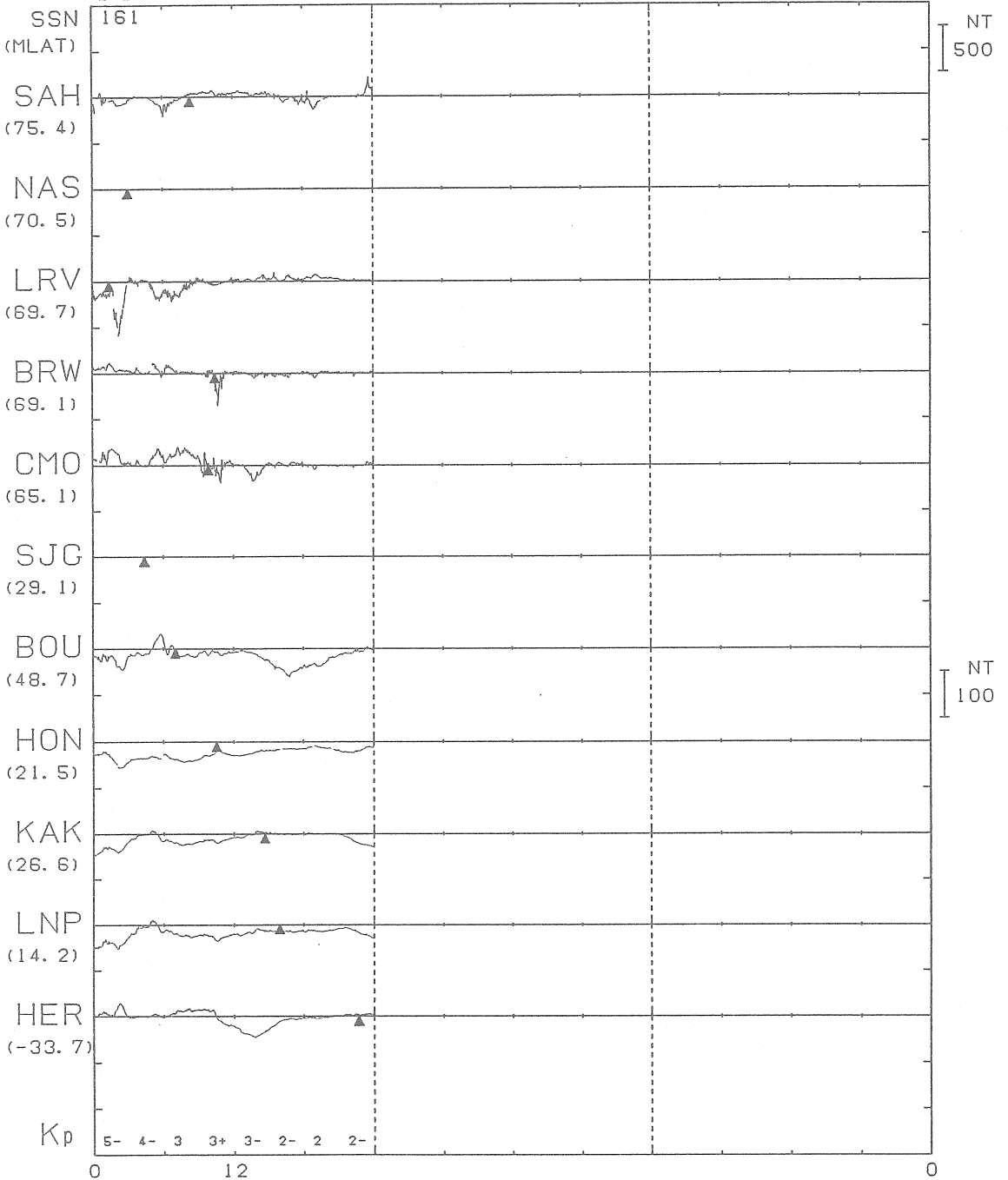
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1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



AUG 31
(DAY 243)

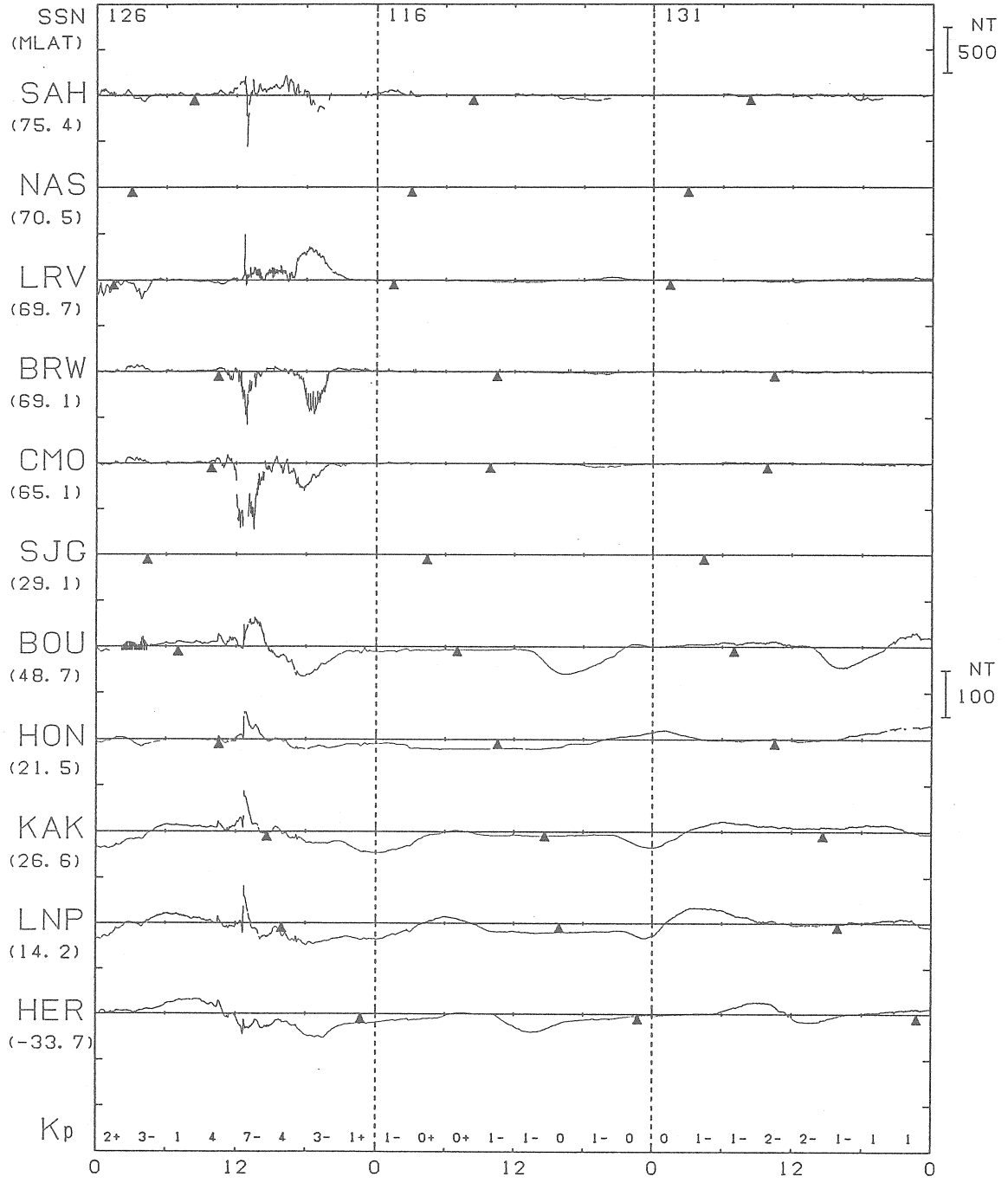
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SEPTEMBER 1990

(DAY 244 - 273)

1990 H OR X-COMPONENT

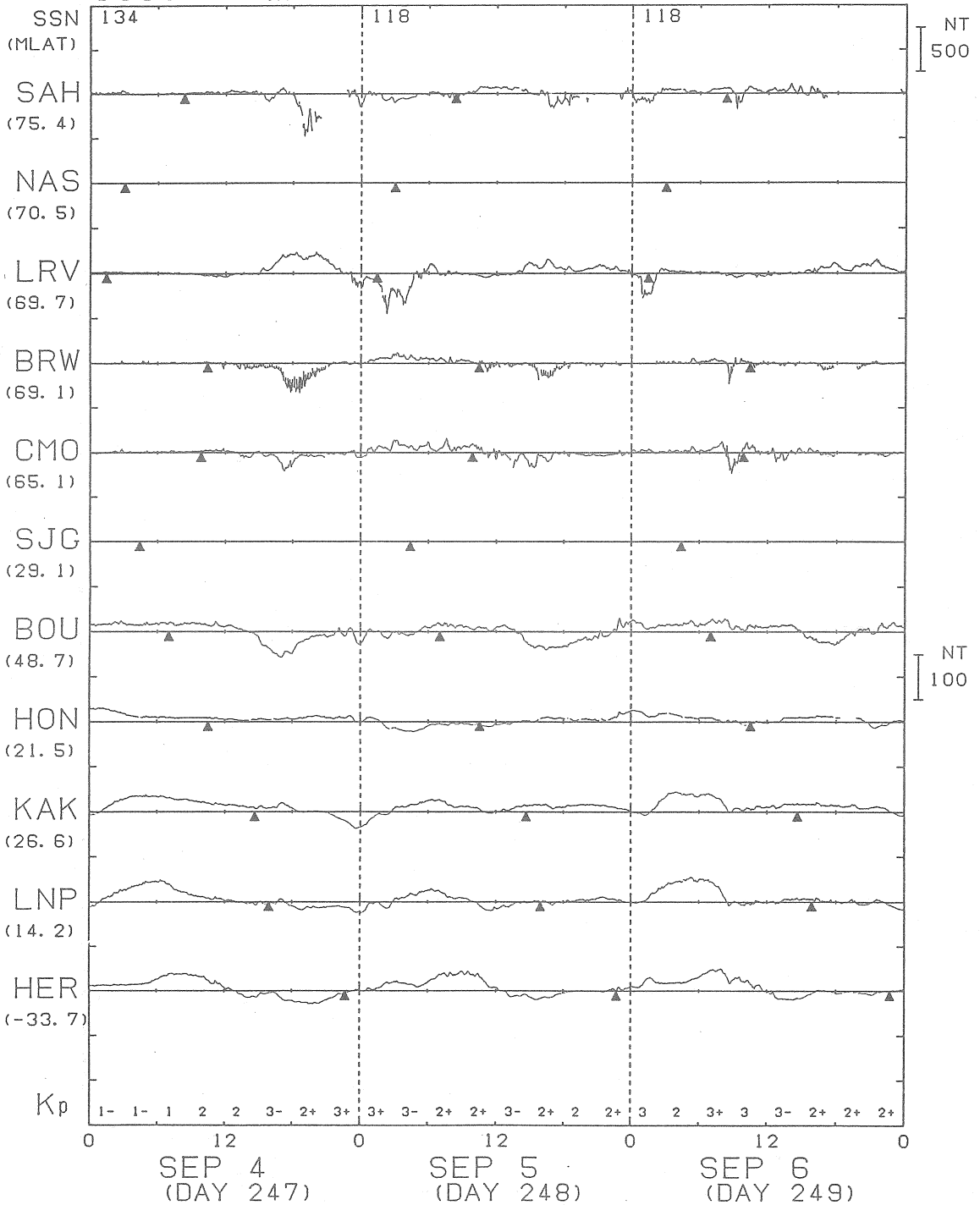
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

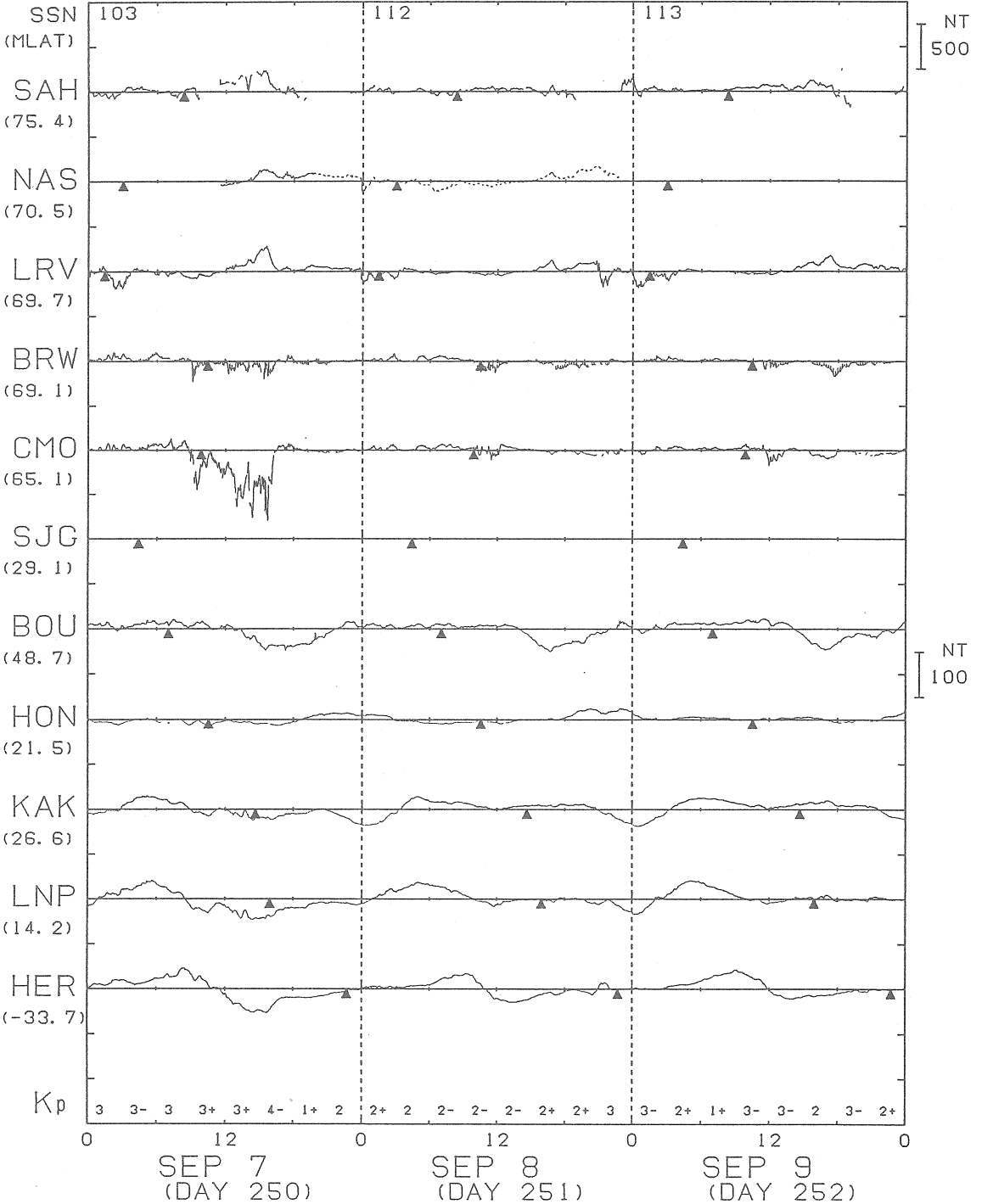
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

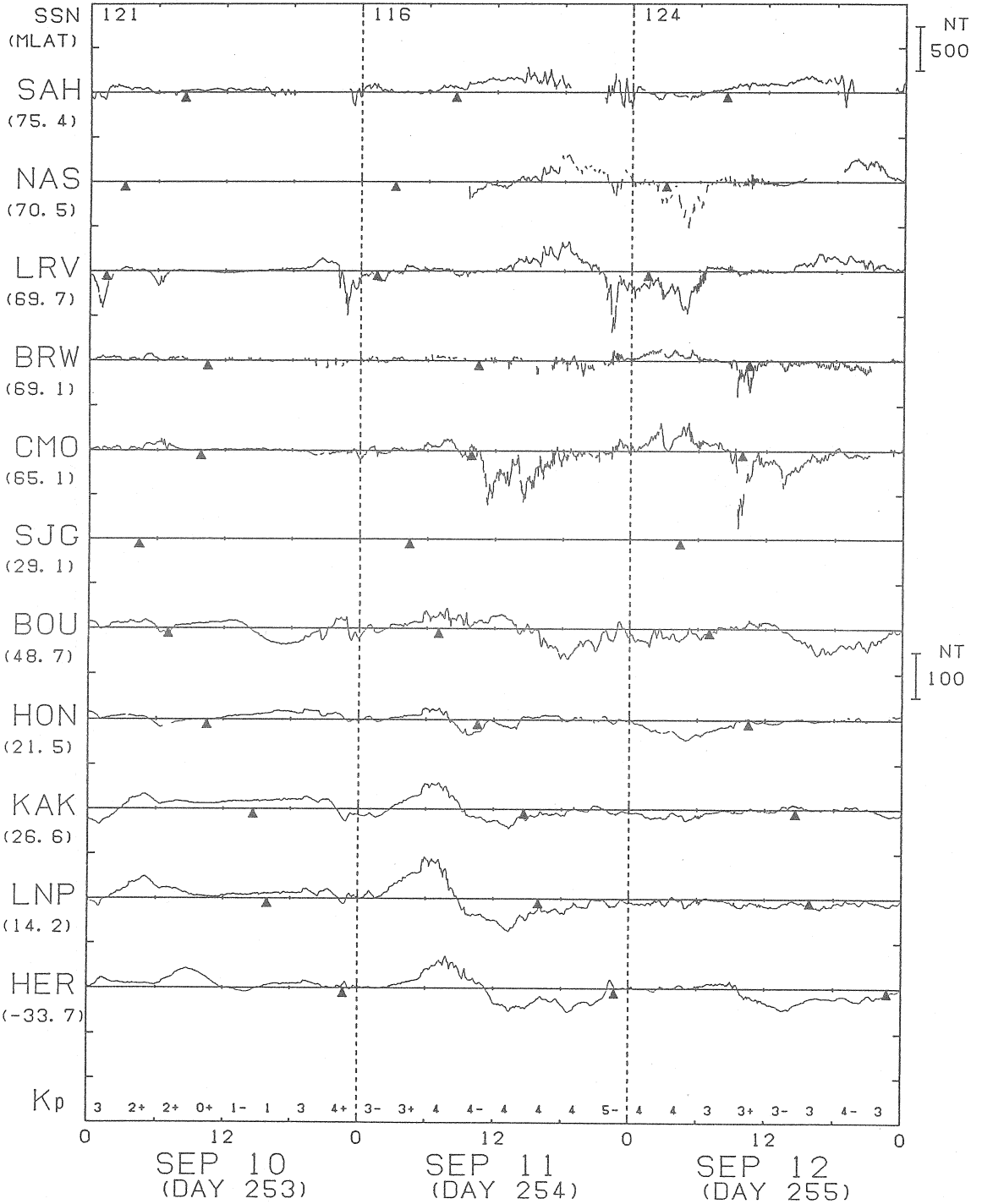
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

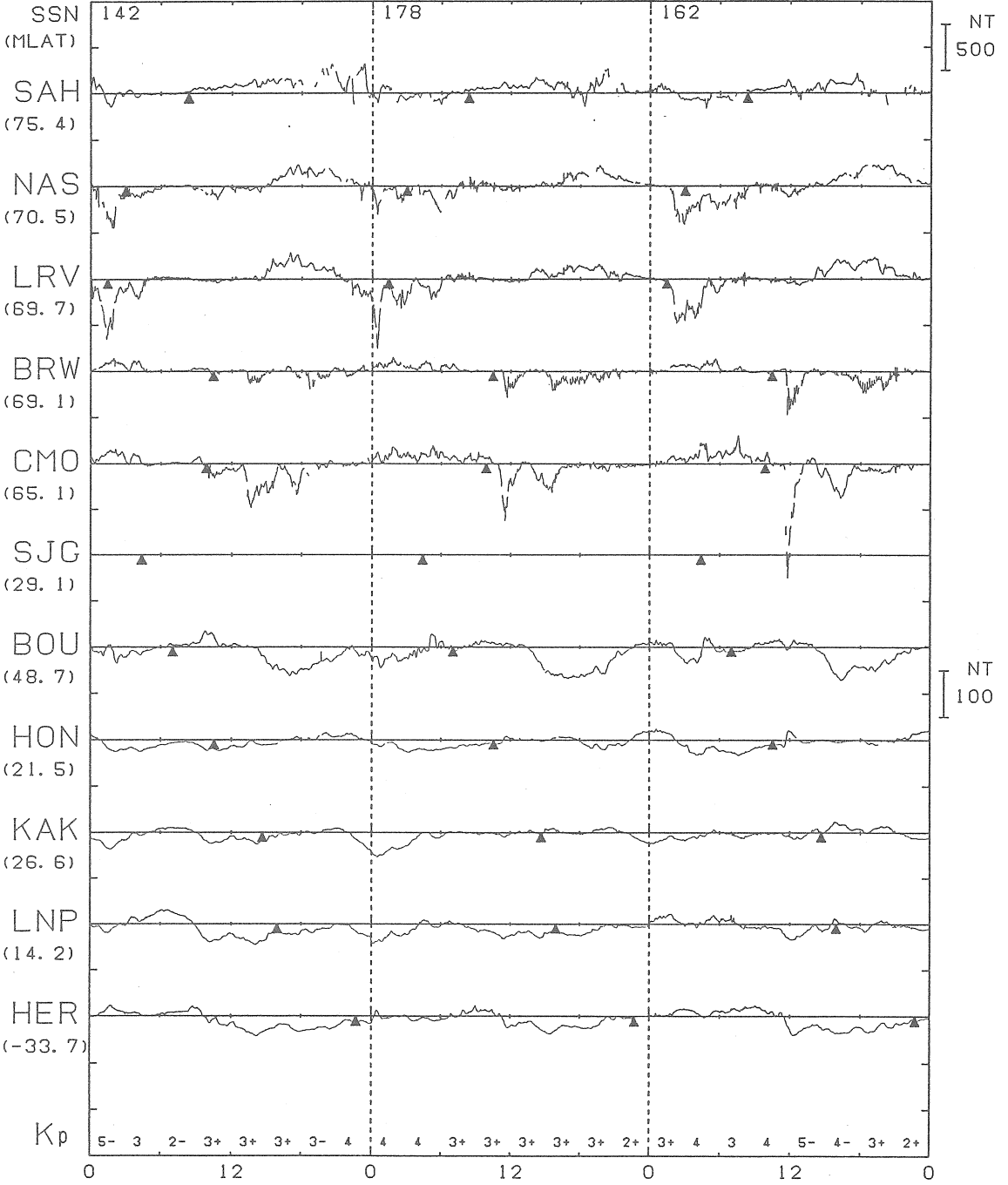
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

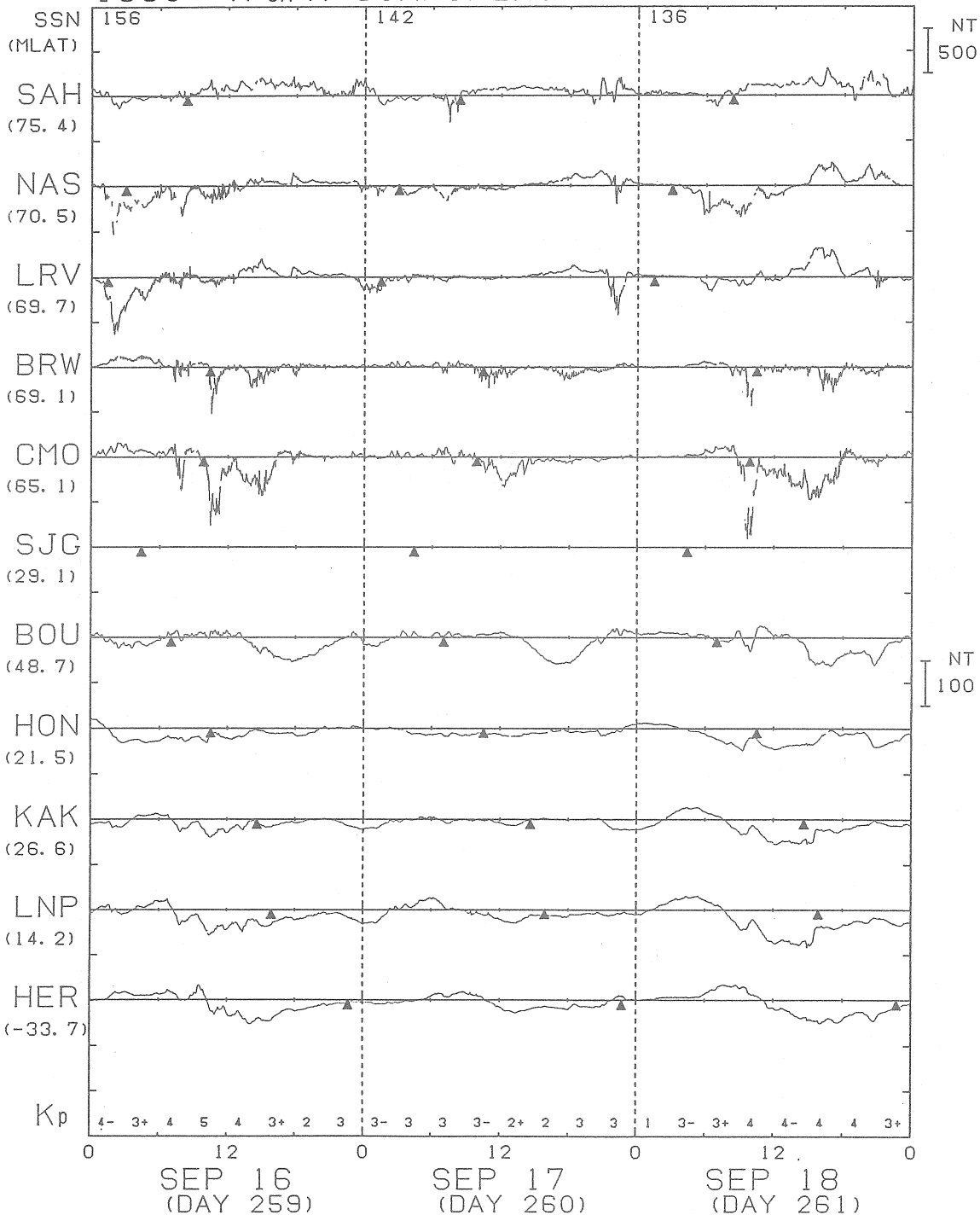


SEP 13 (DAY 256) SEP 14 (DAY 257) SEP 15 (DAY 258)

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

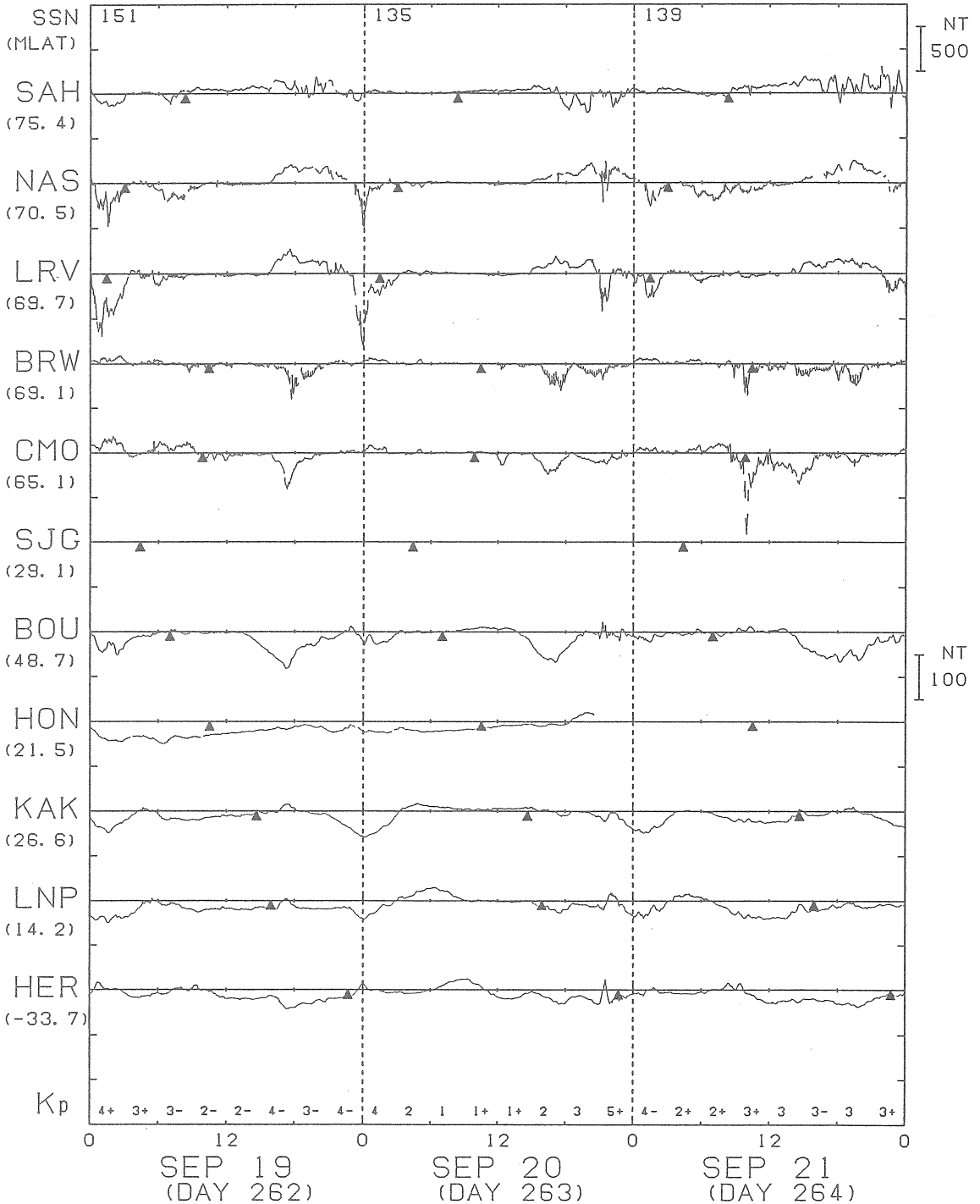
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

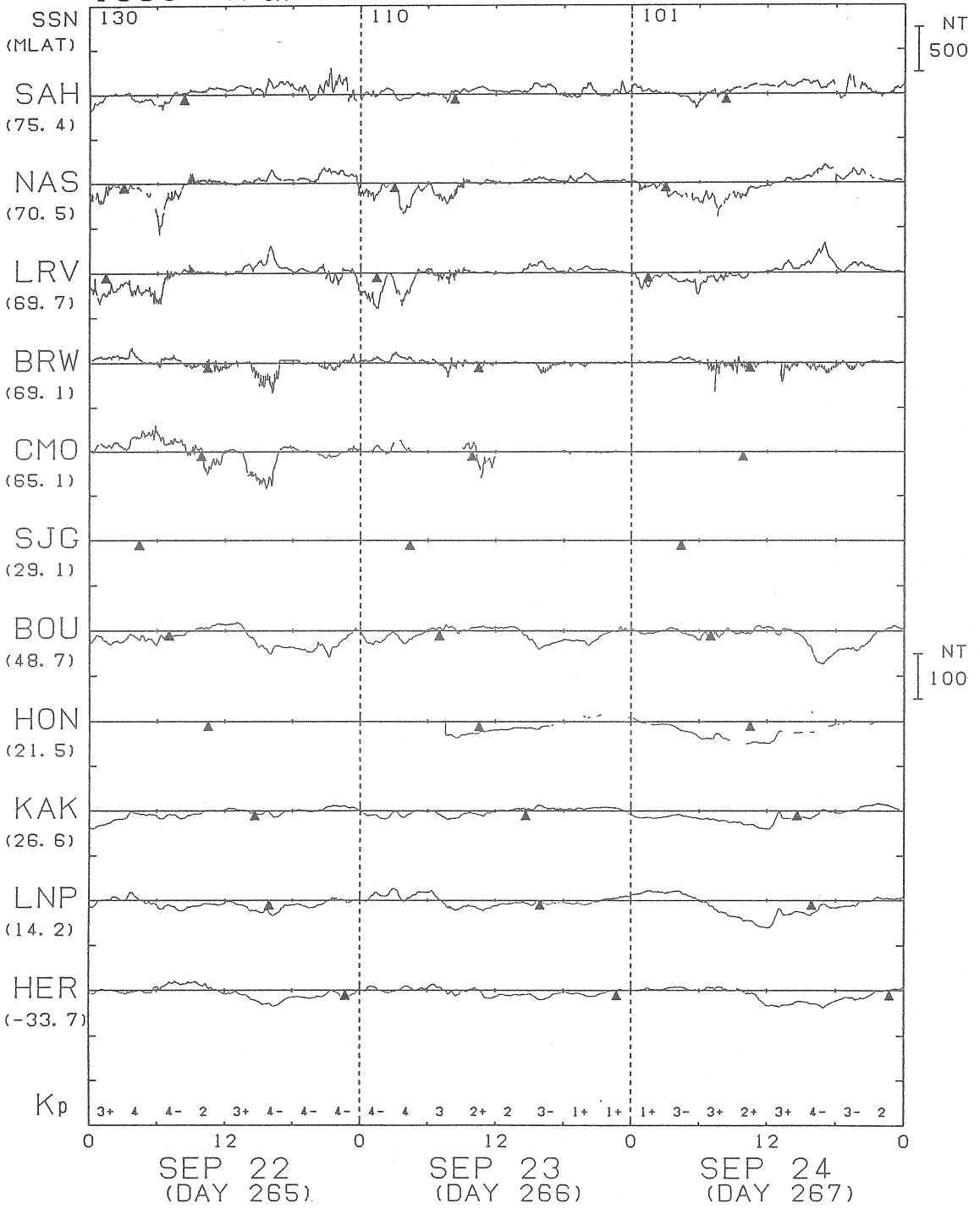
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1990 H_{oR} X-COMPONENT

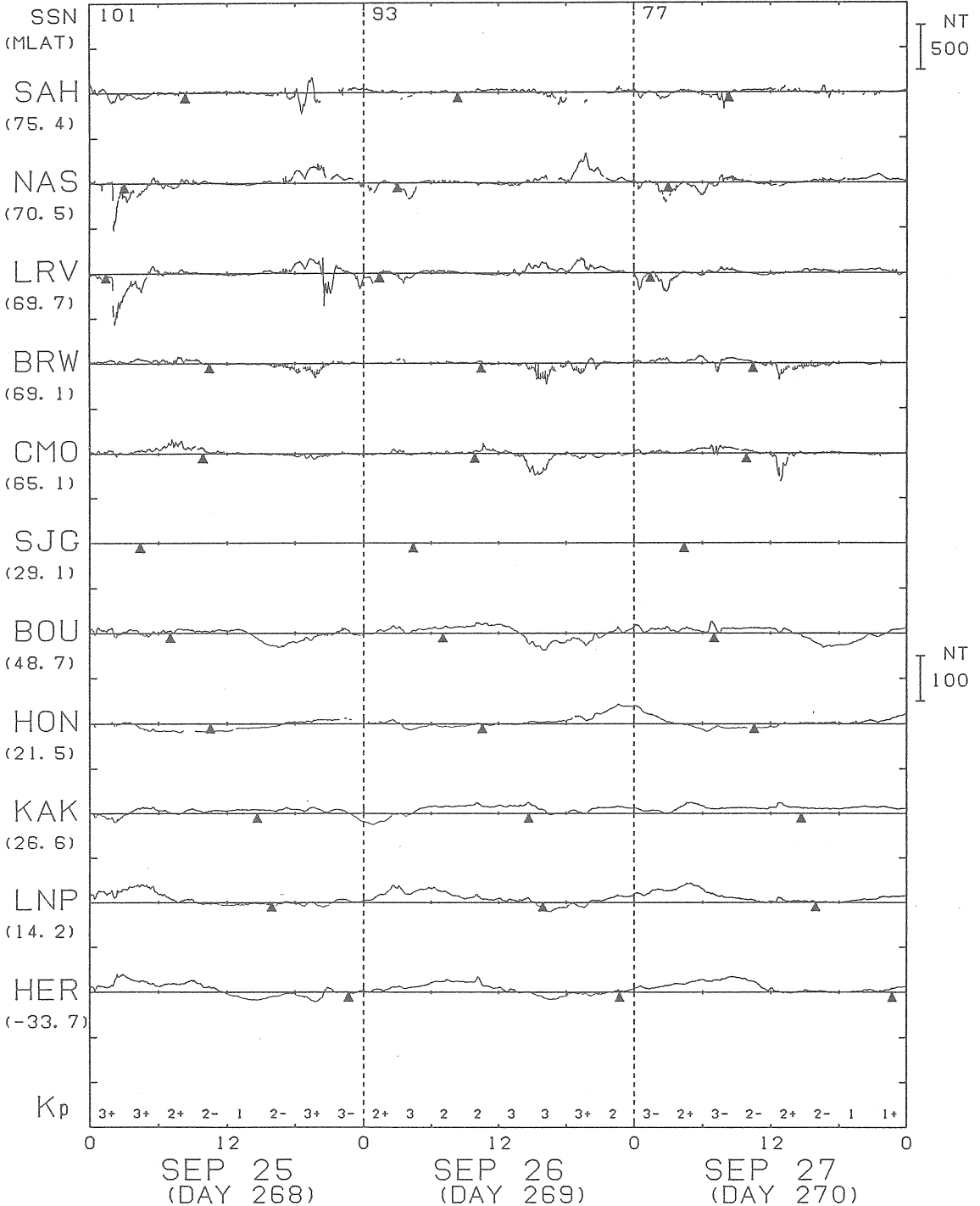
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1990 H OR X-COMPONENT

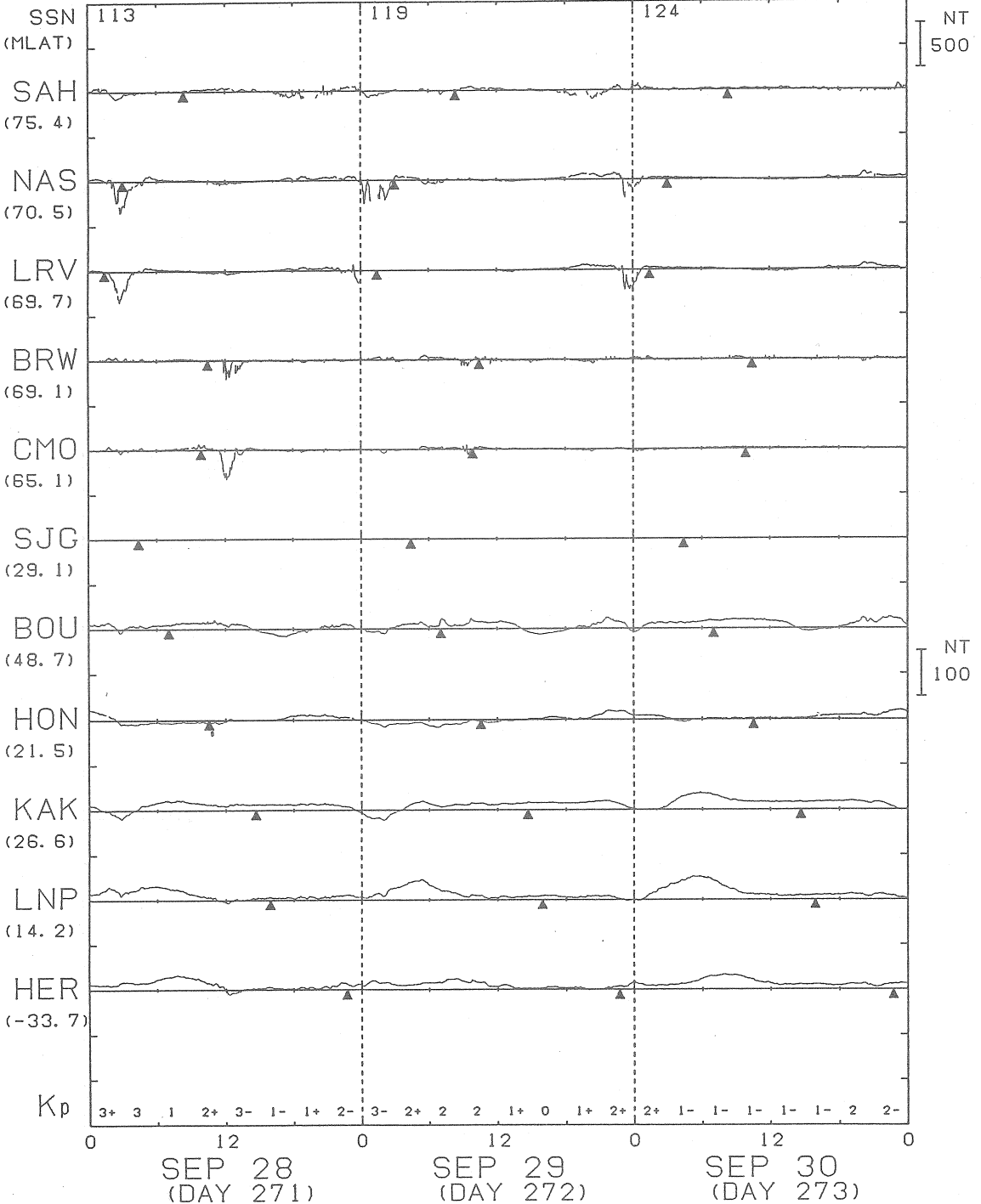
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1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



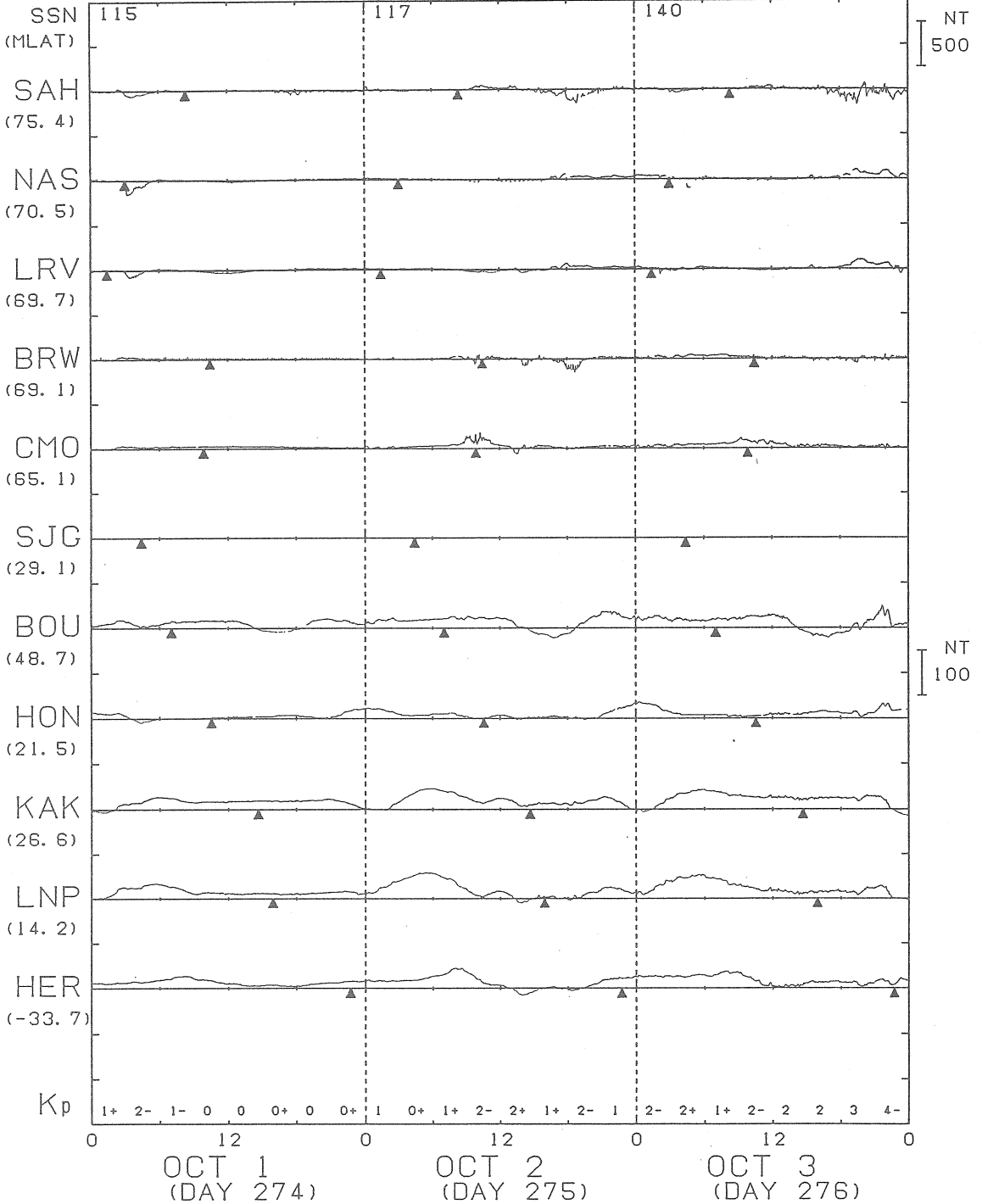
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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OCTOBER 1990

(DAY 274 - 304)

1990 H OR X-COMPONENT

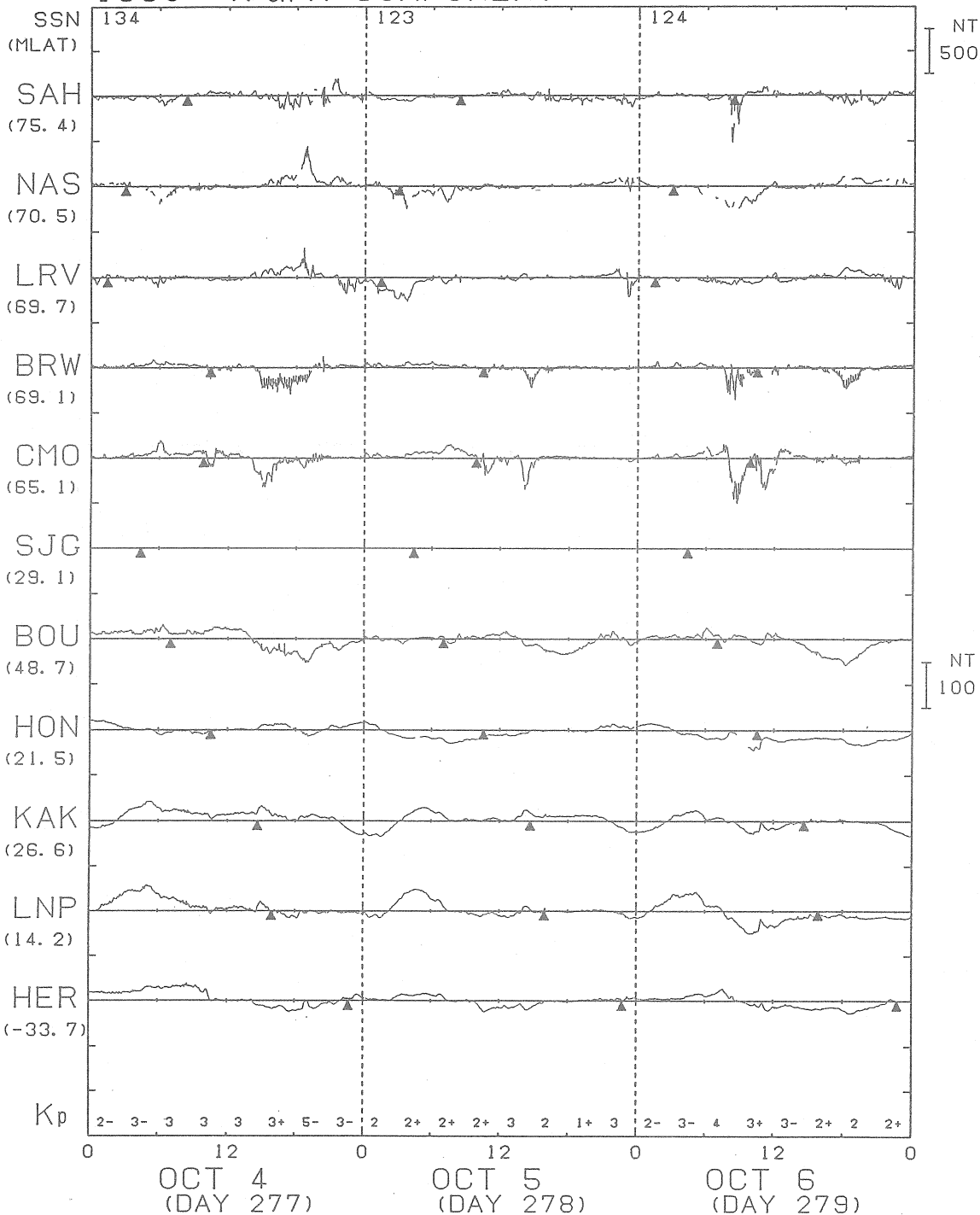
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1990 H OR X-COMPONENT

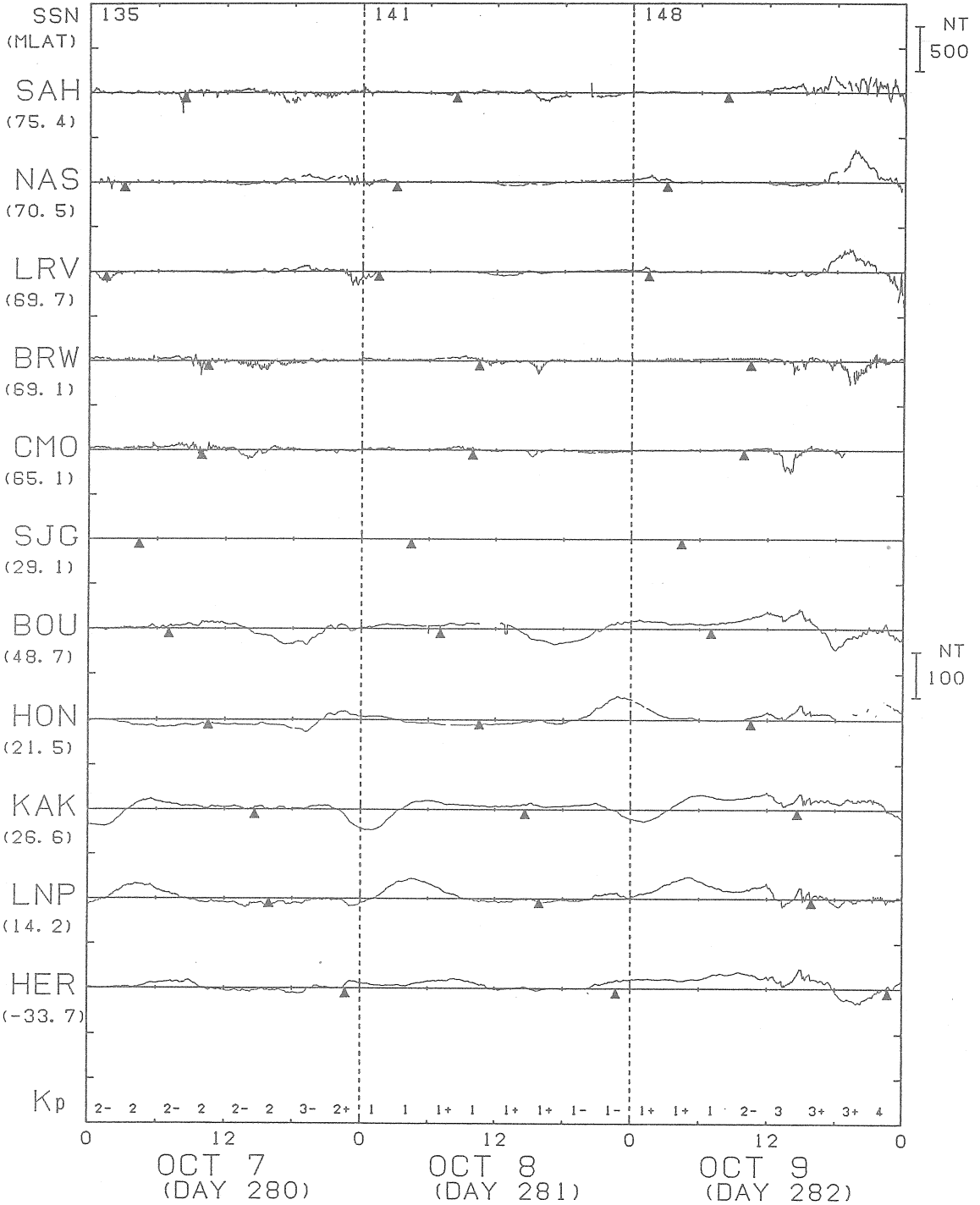
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

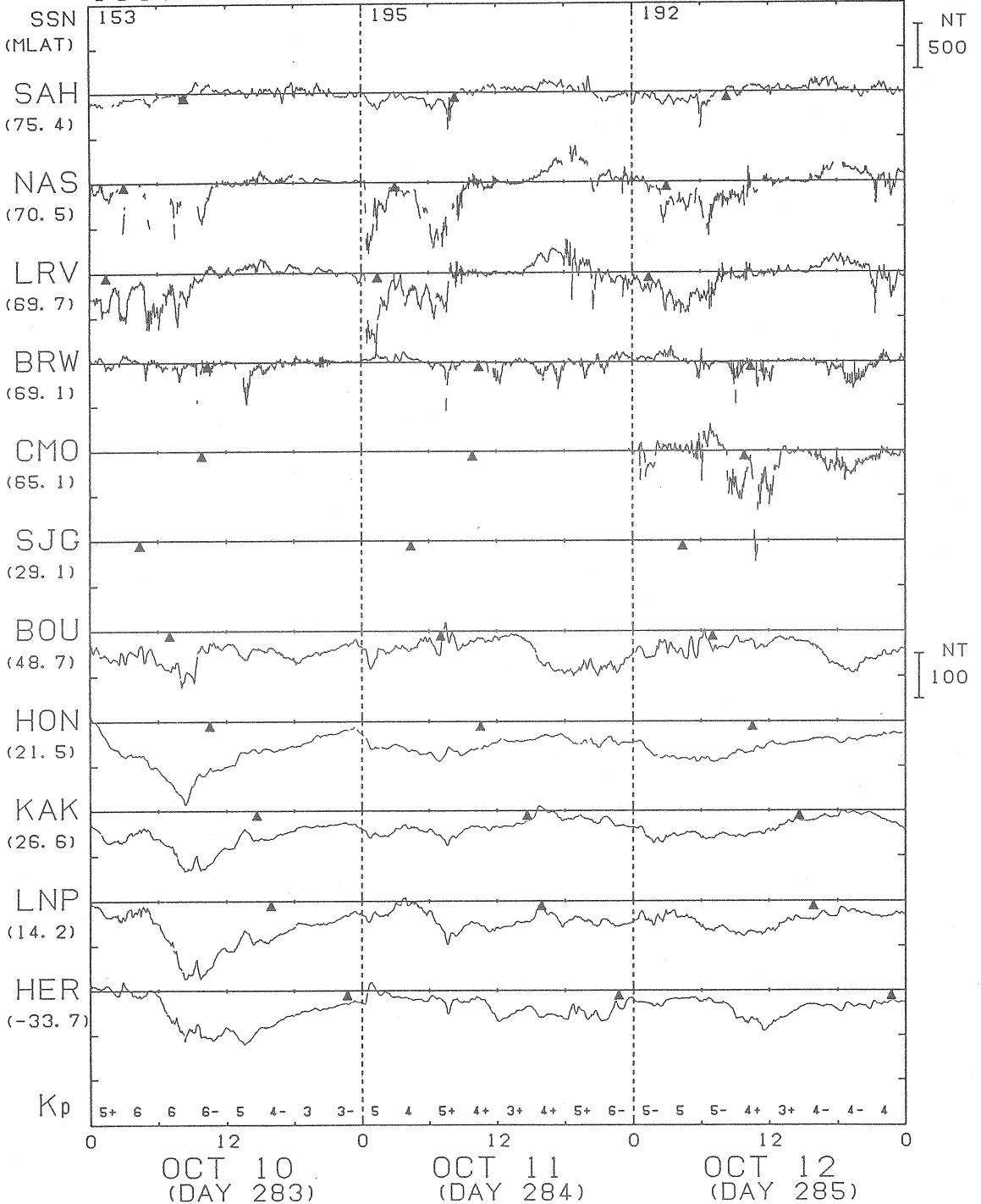
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

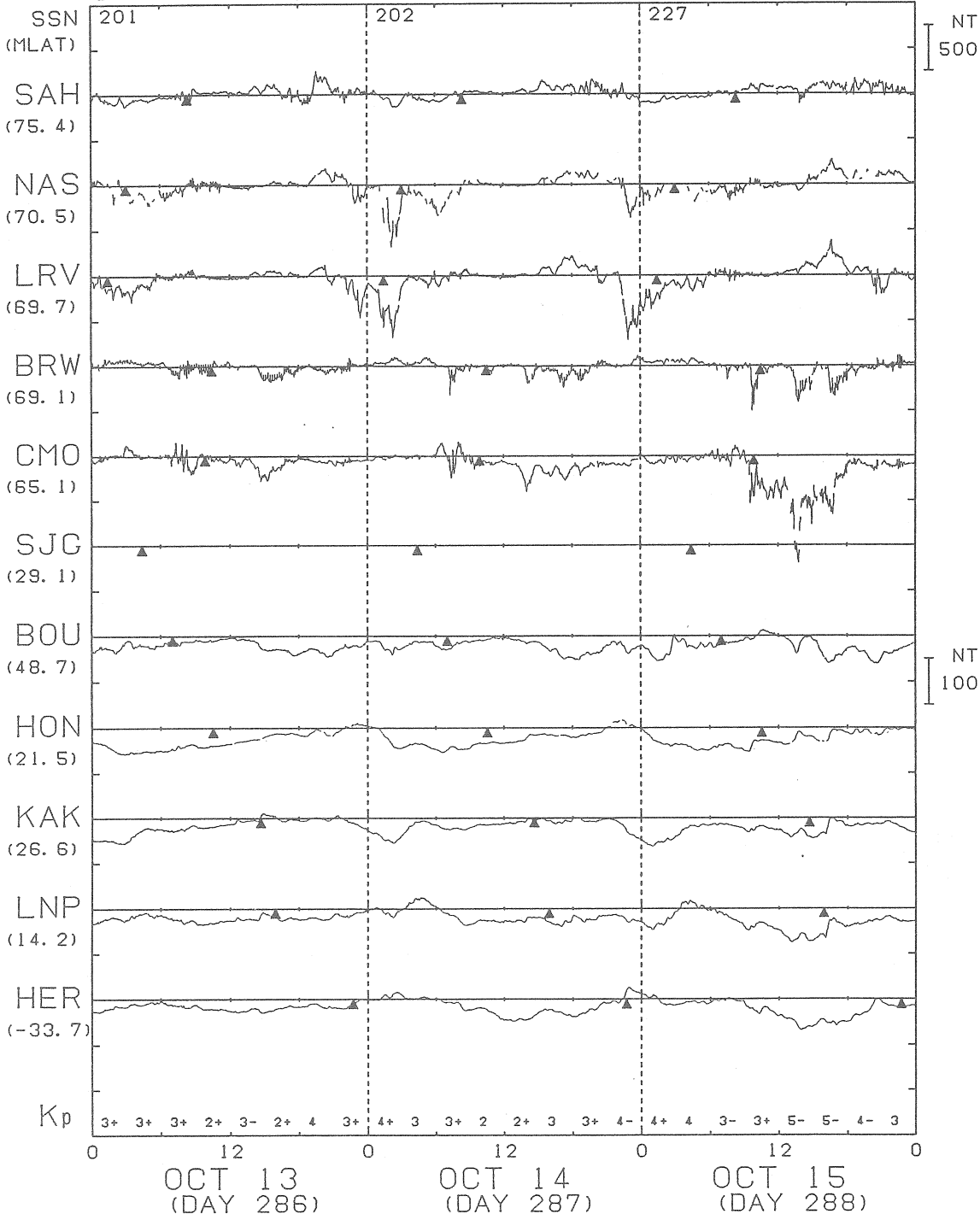
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1990 H OR X-COMPONENT

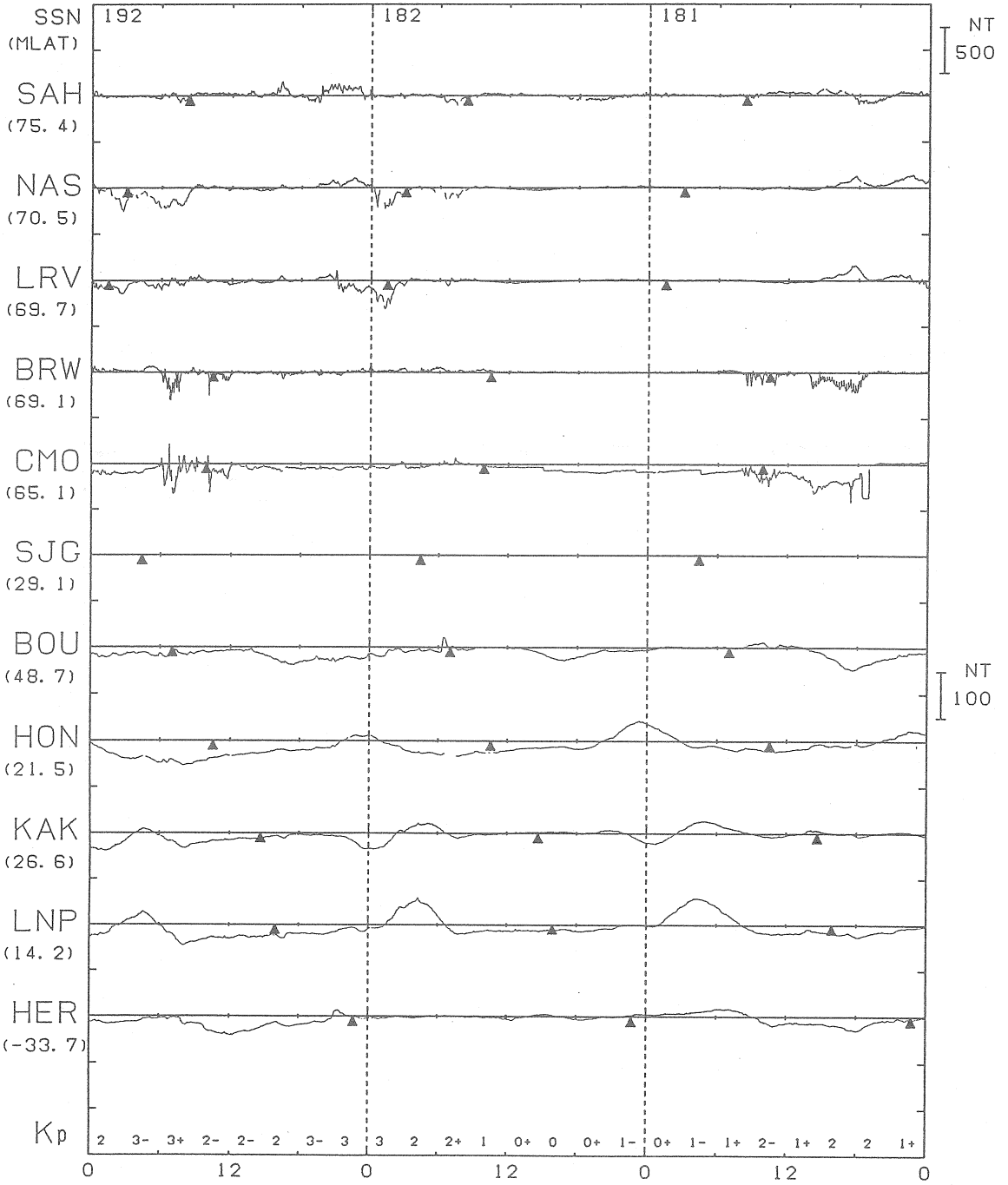
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

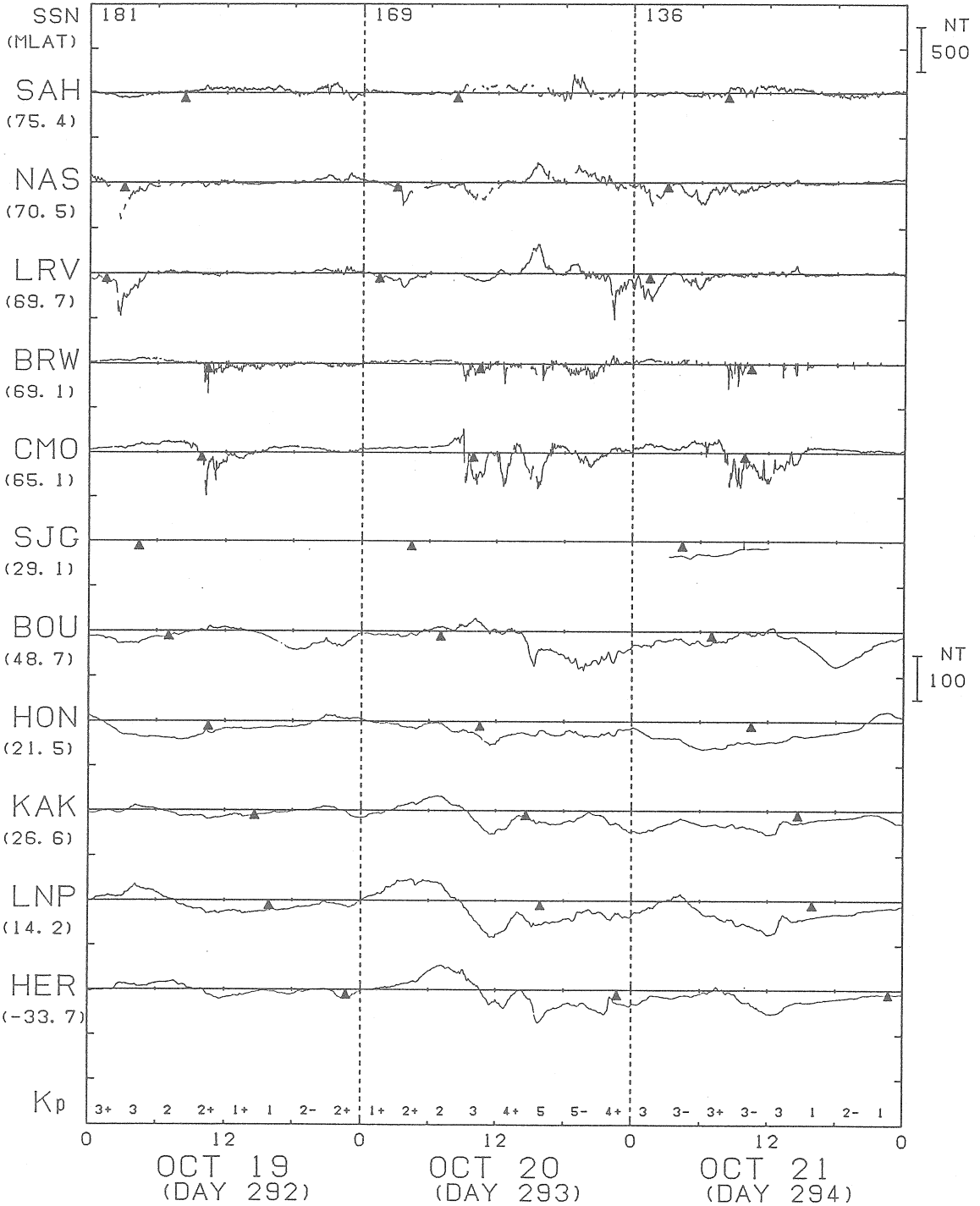


OCT 16 (DAY 289) OCT 17 (DAY 290) OCT 18 (DAY 291)

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

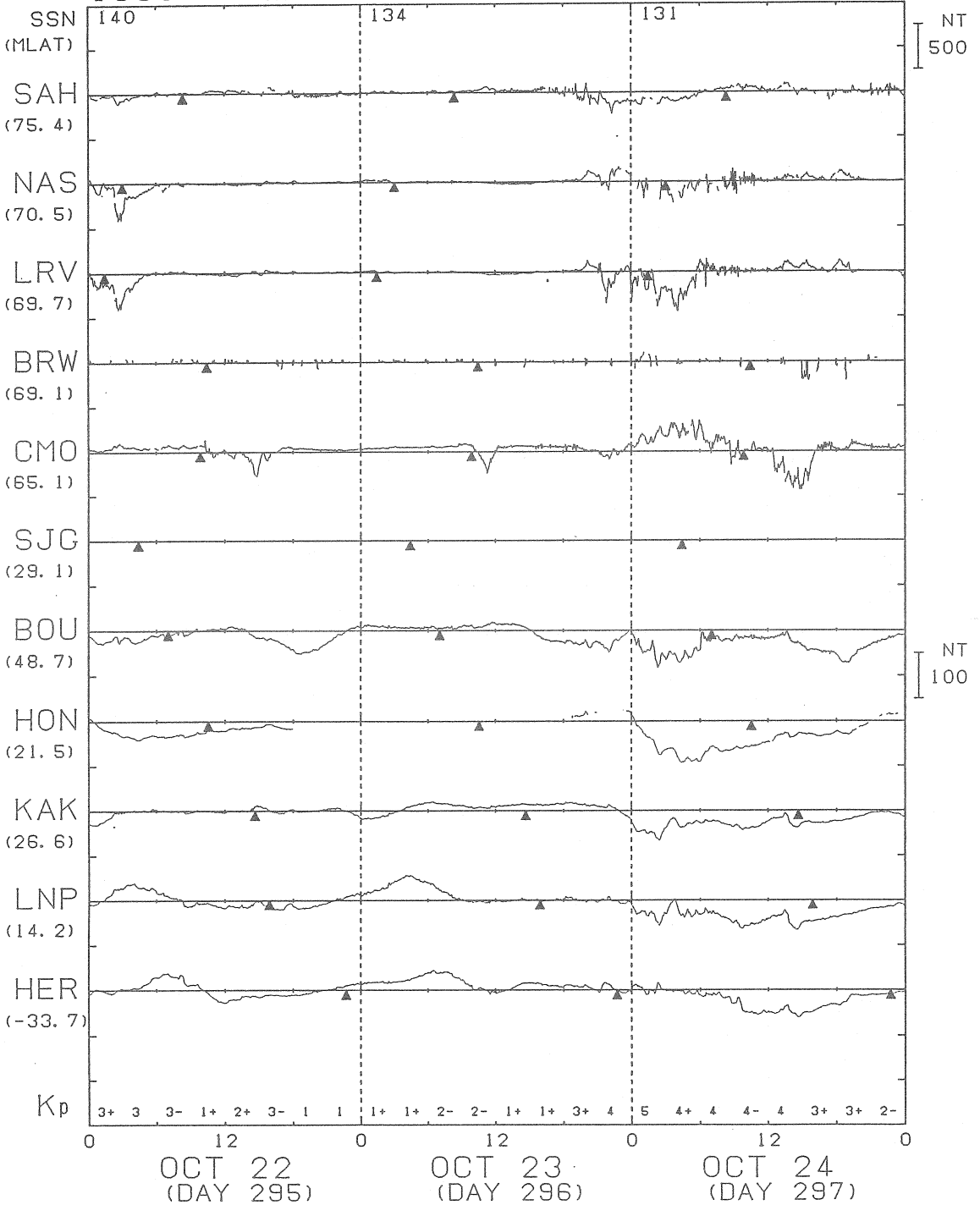
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

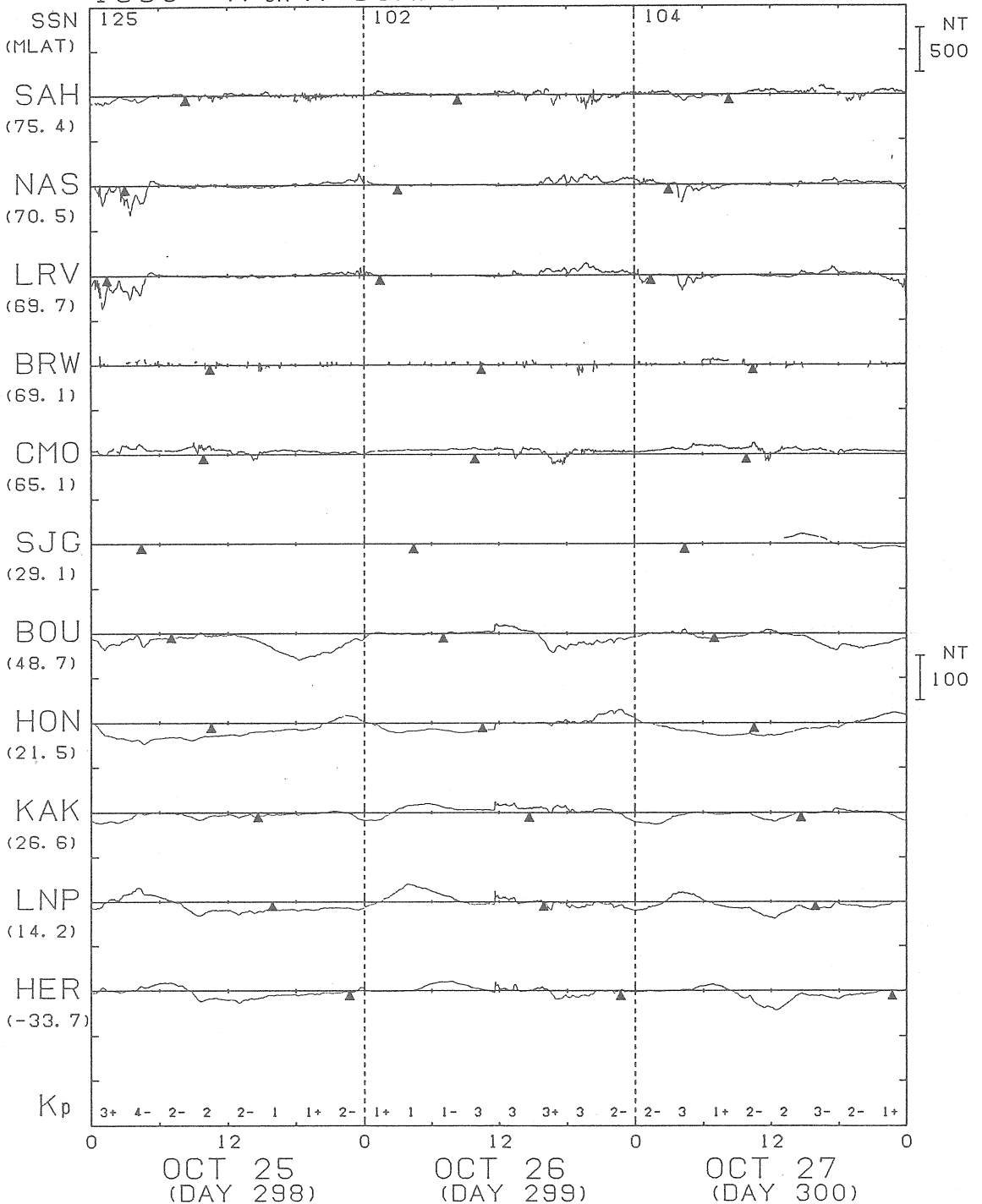
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1990 H OR X-COMPONENT

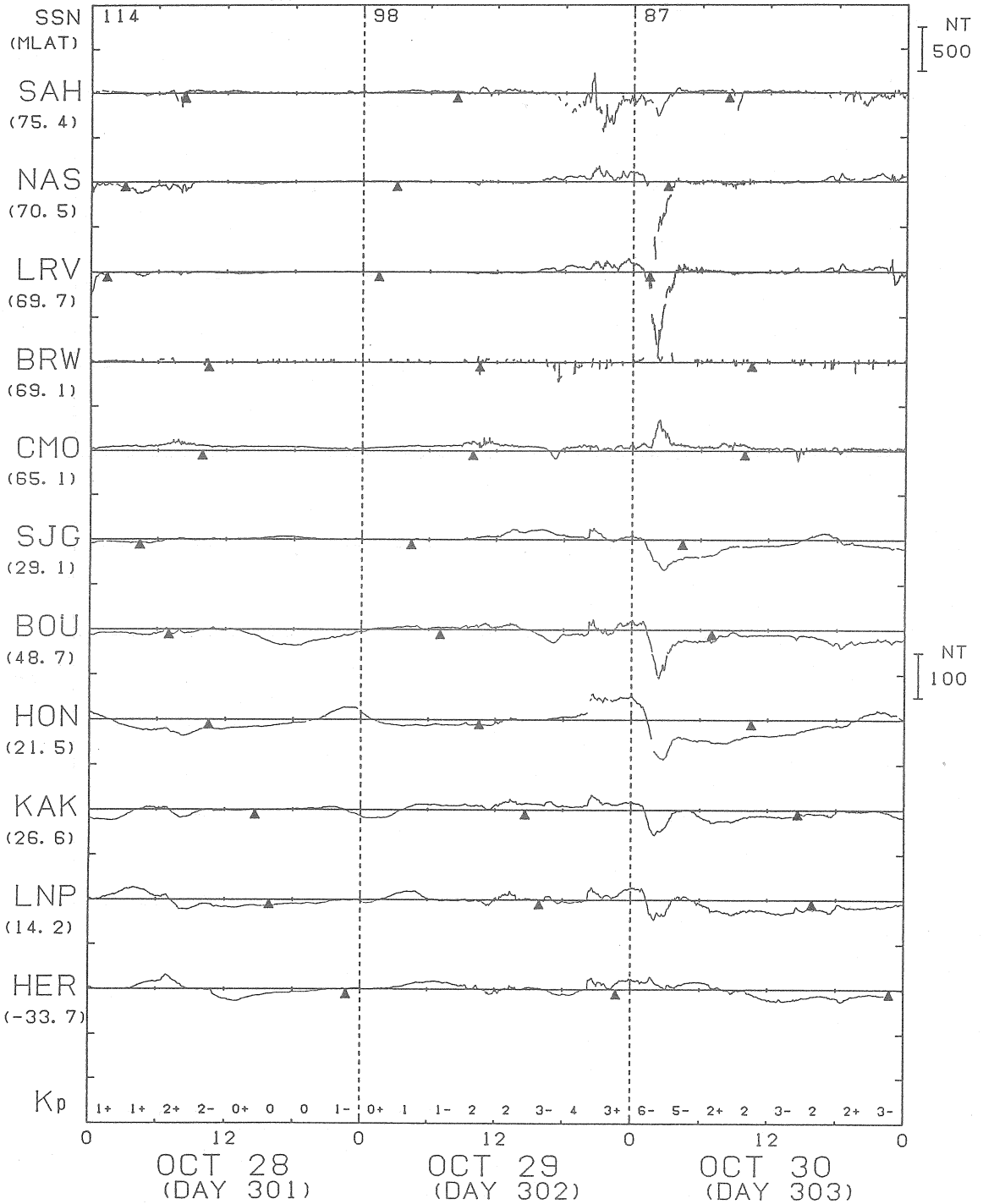
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1990 H OR X-COMPONENT

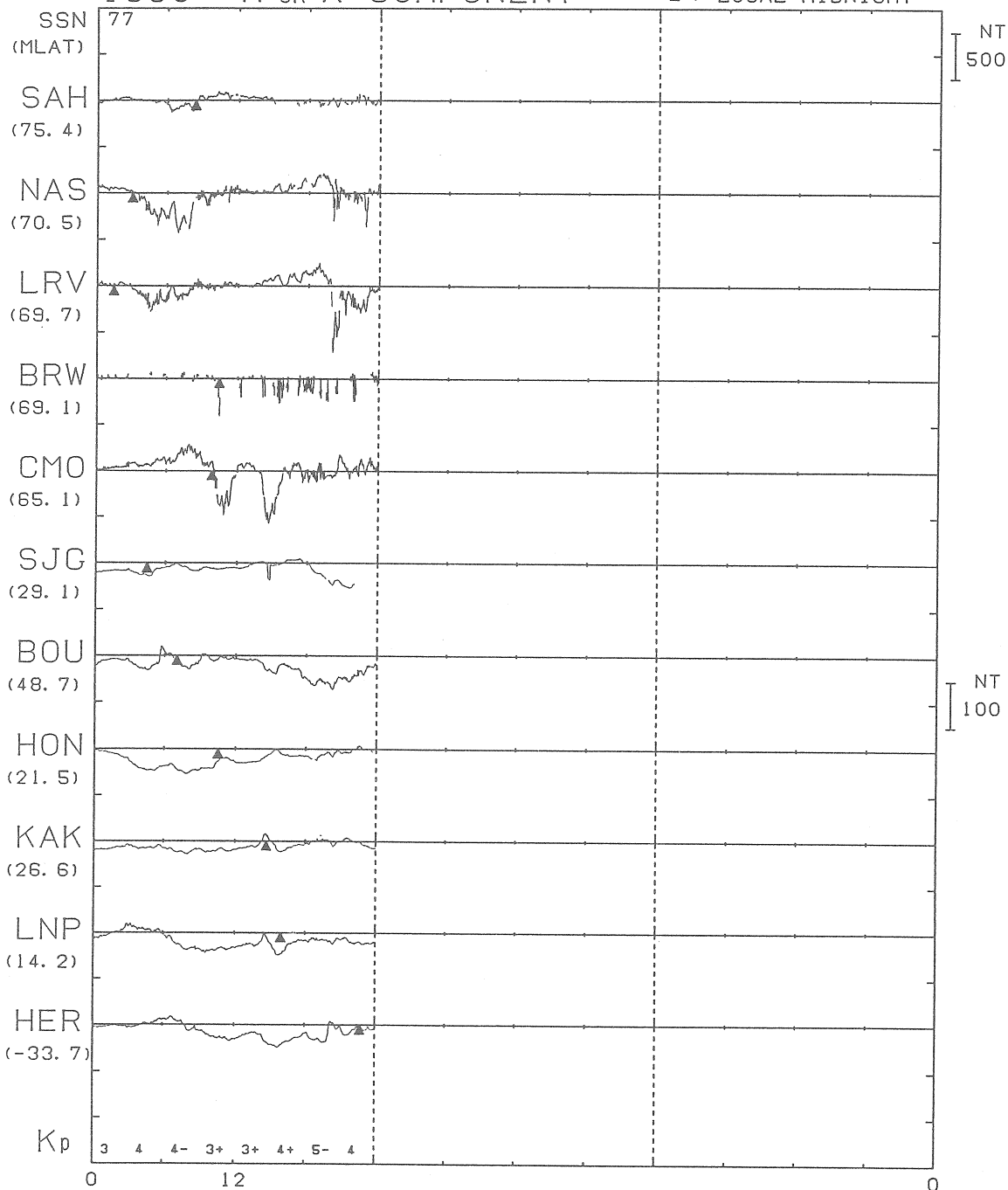
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1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



OCT 31
 (DAY 304)

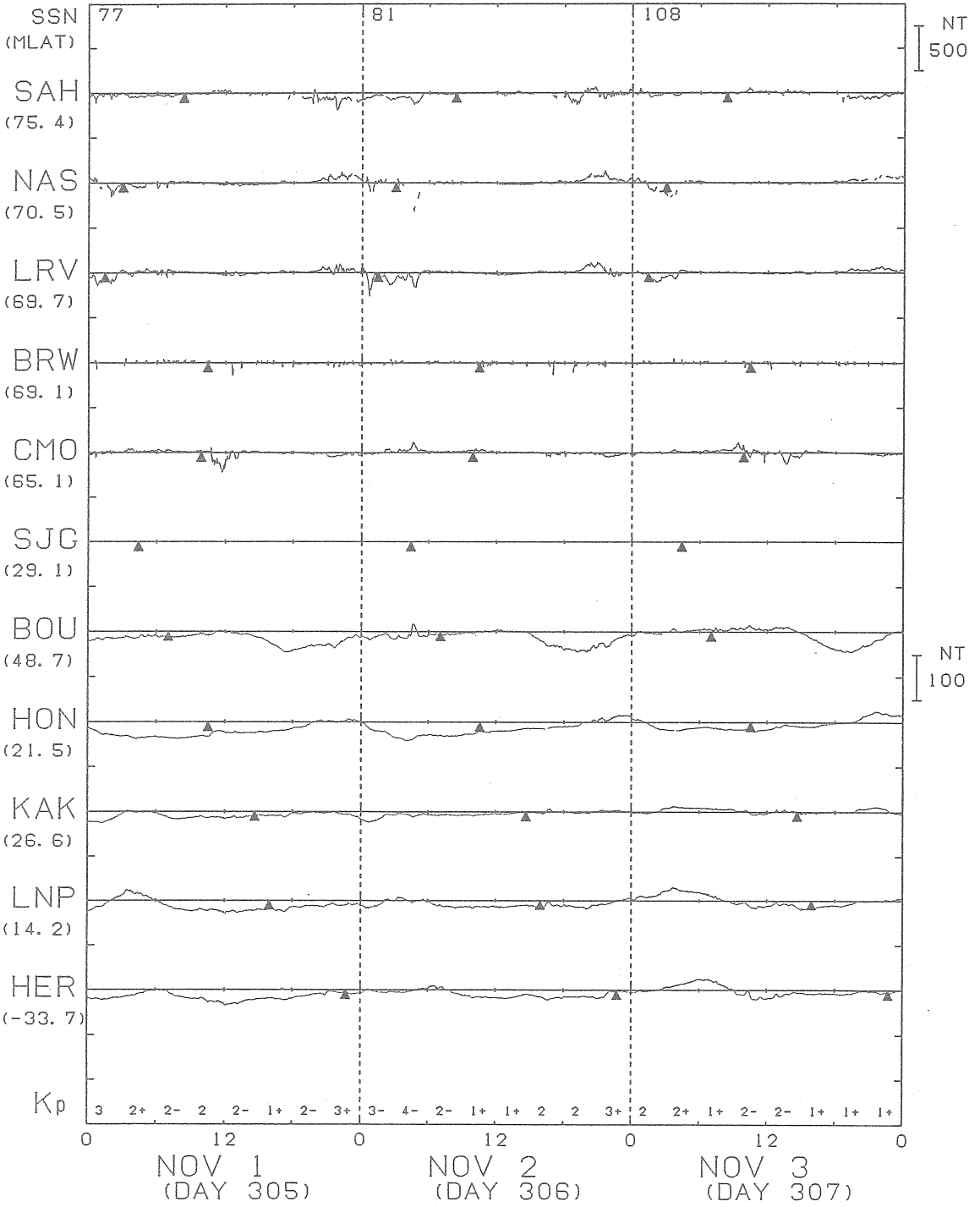
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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NOVEMBER 1990

(DAY 305 - 334)

1990 H OR X-COMPONENT

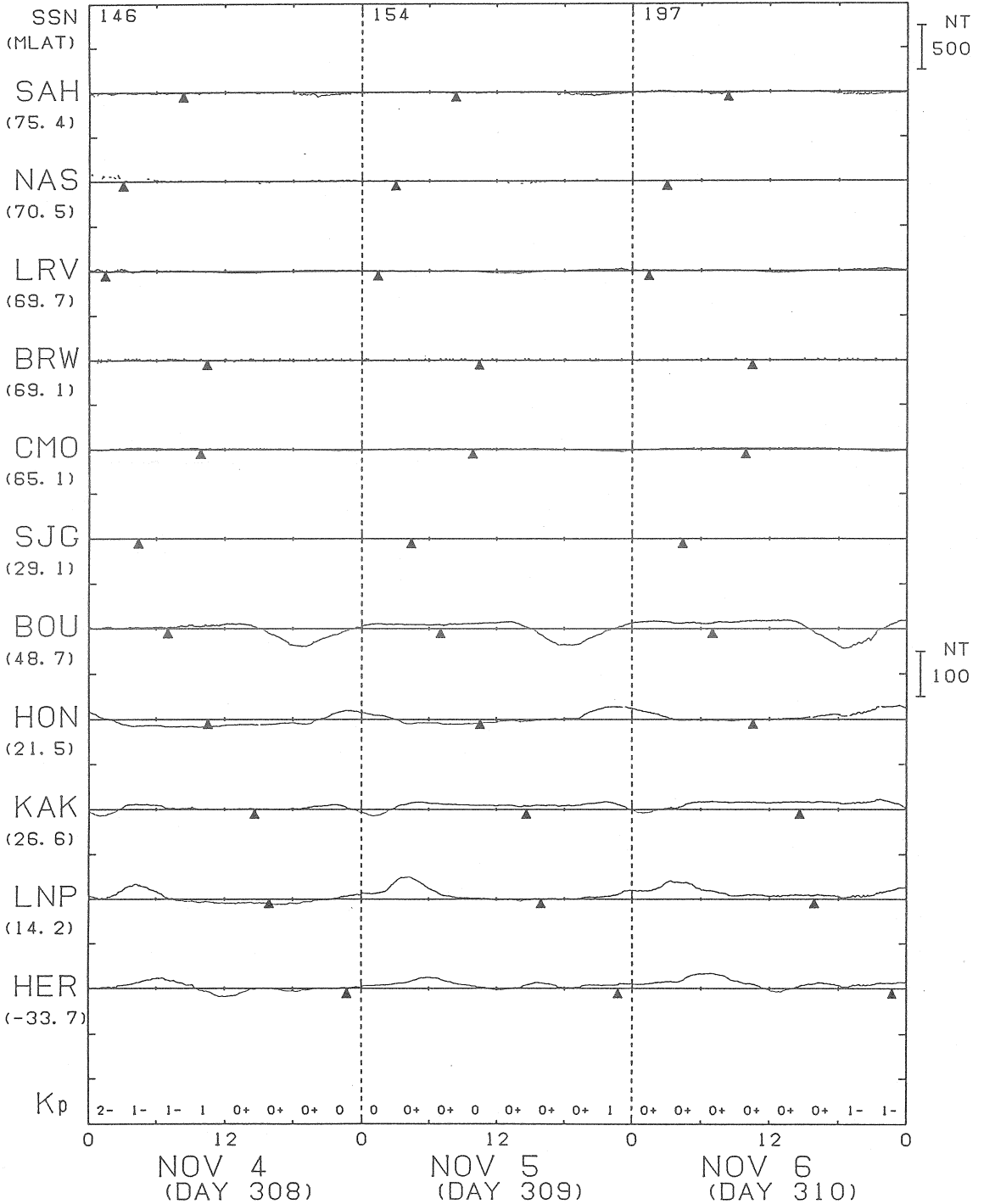
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

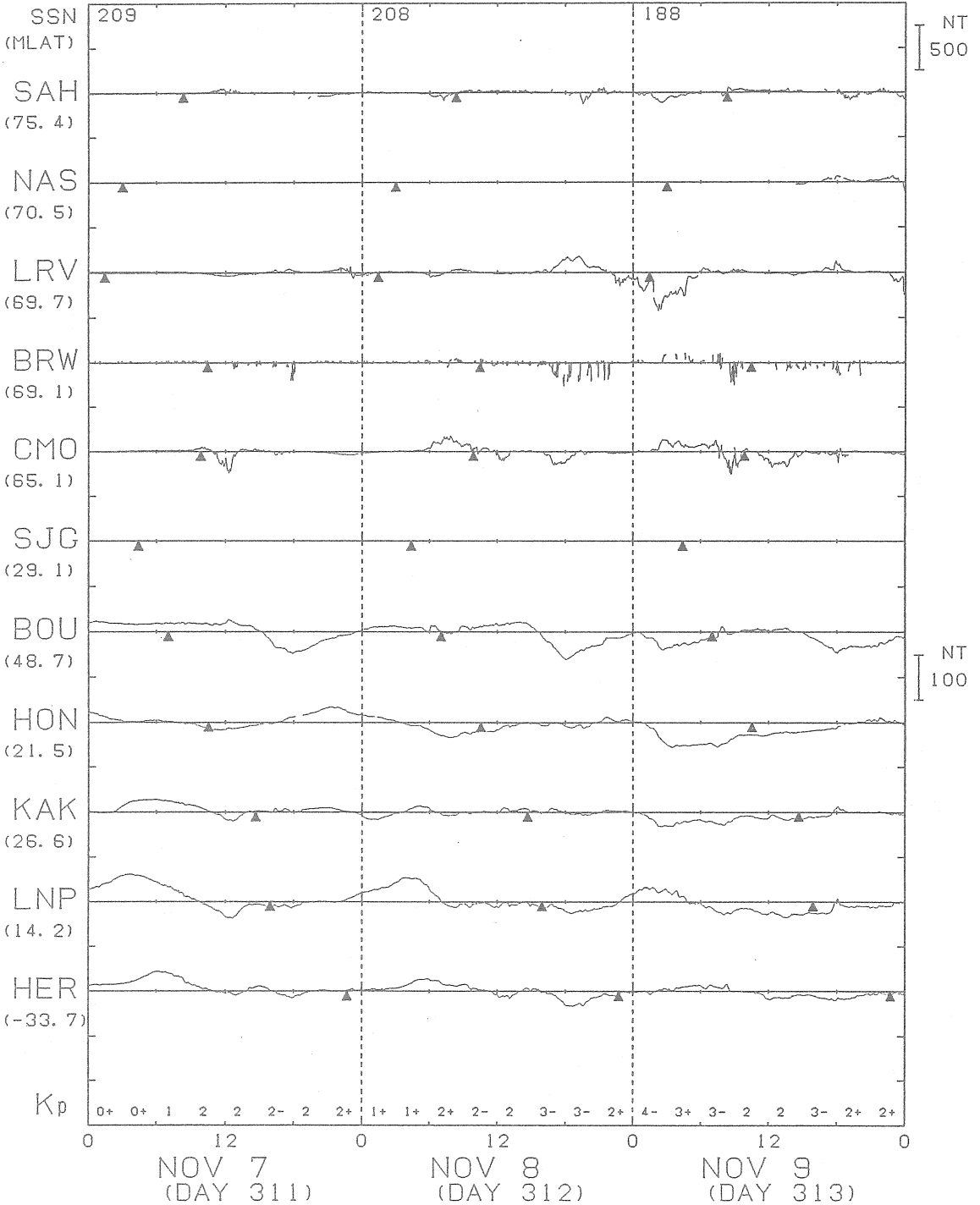
▲ : LOCAL MIDNIGHT



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

1990 H OR X-COMPONENT

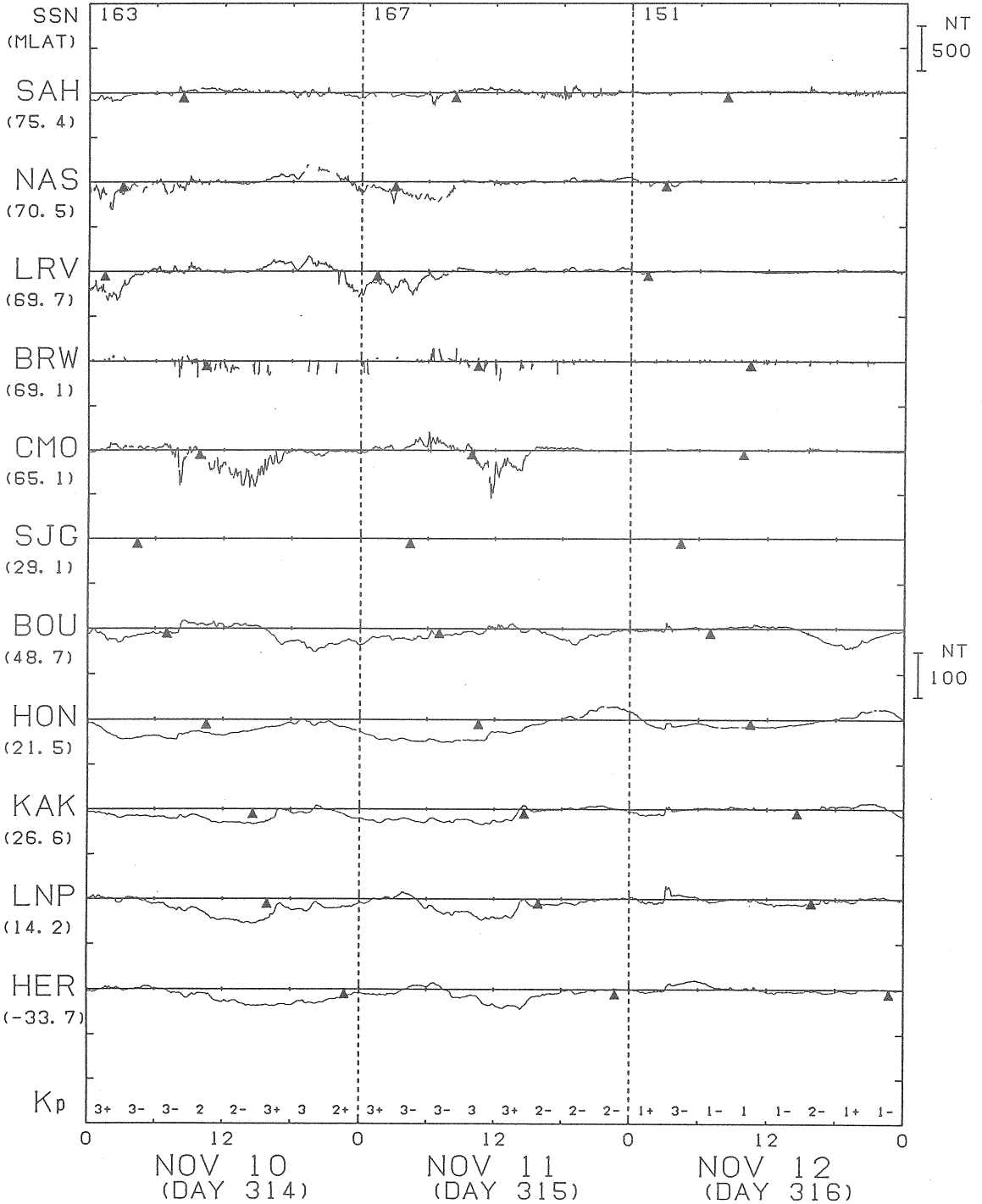
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

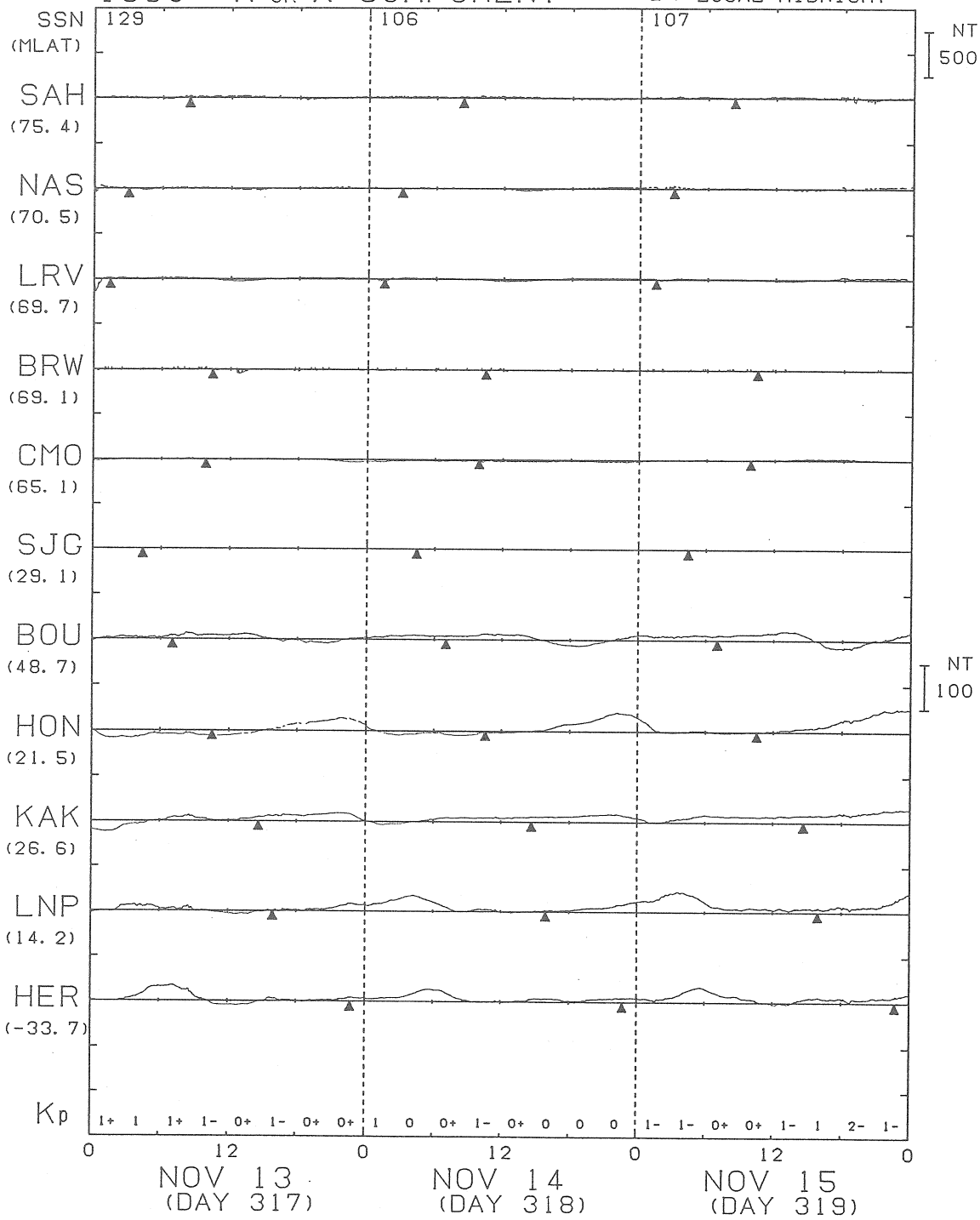
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

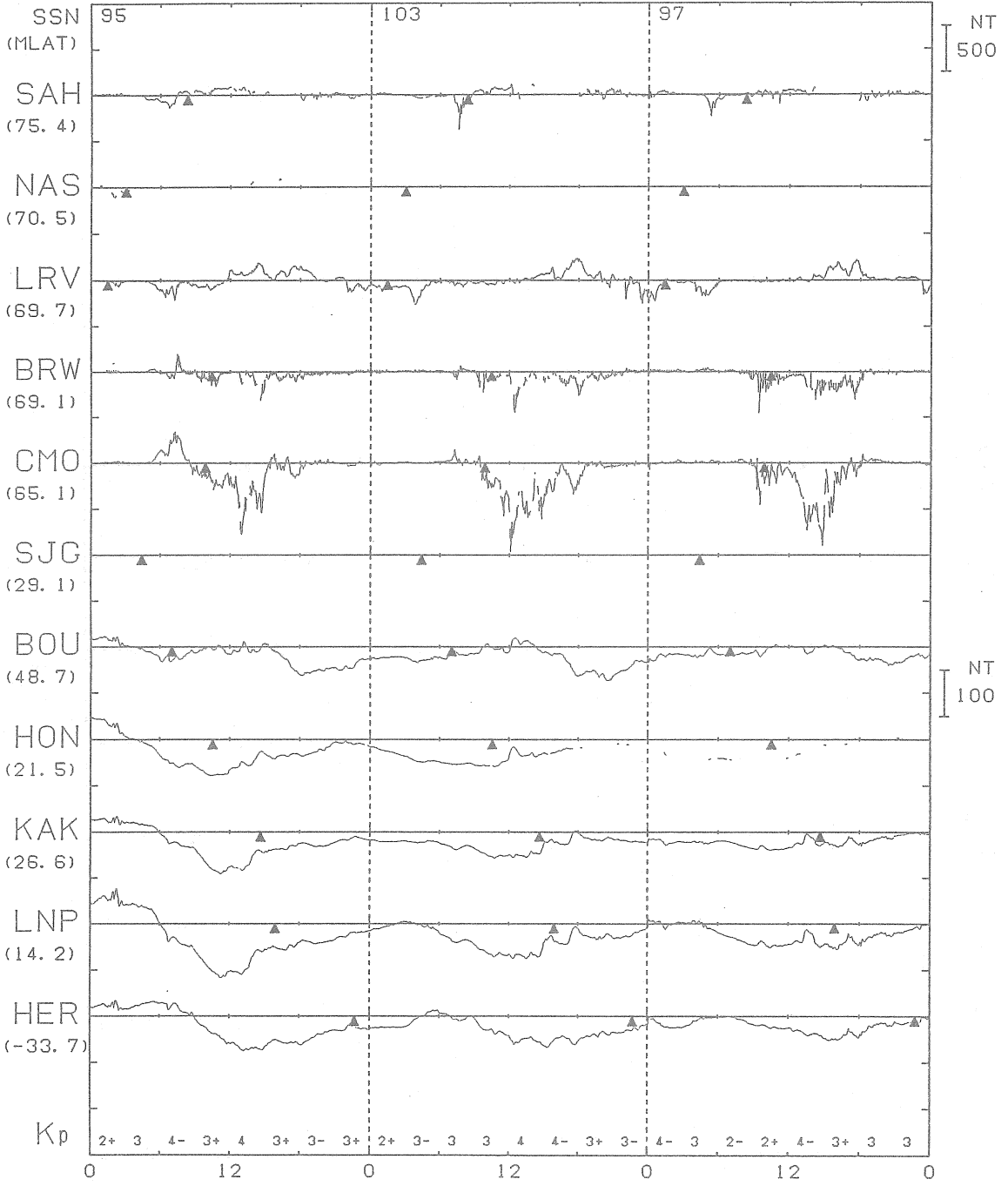
▲ : LOCAL MIDNIGHT



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

1990 H_{0R} X-COMPONENT

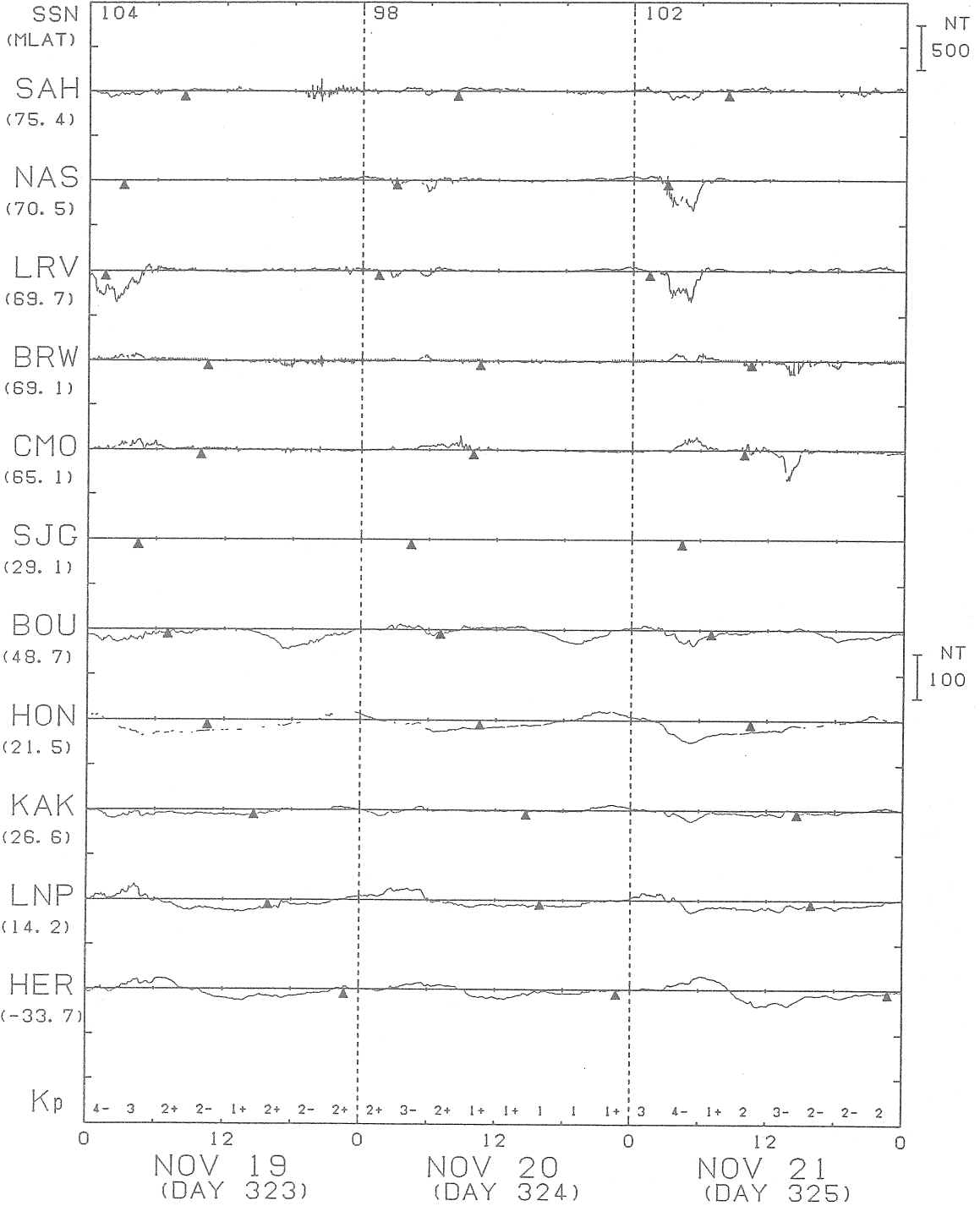
▲ : LOCAL MIDNIGHT



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 * PROMPT DATA ARE INCLUDED
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1990 H OR X-COMPONENT

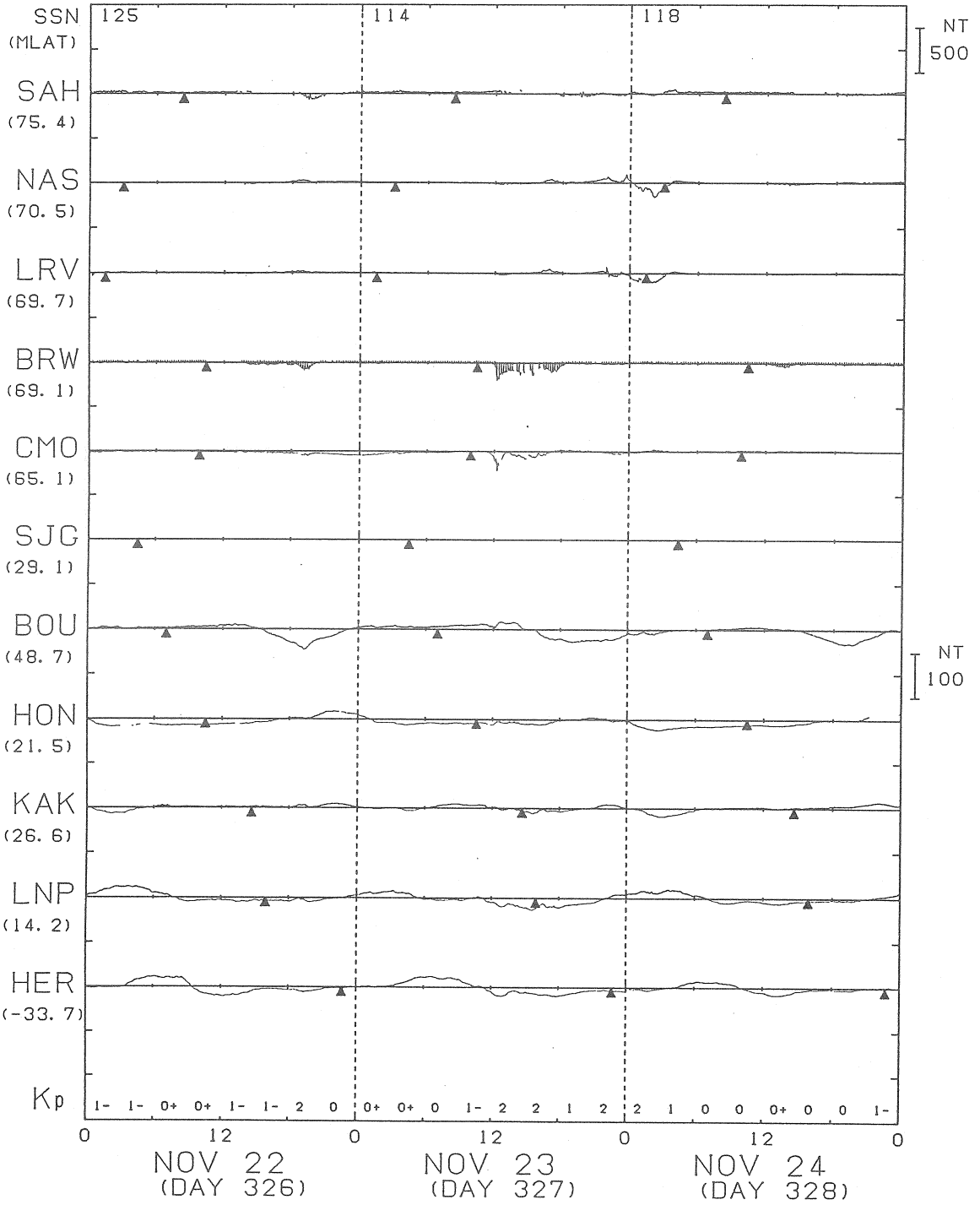
▲ : LOCAL MIDNIGHT



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 * PROMPT DATA ARE INCLUDED
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1990 H OR X-COMPONENT

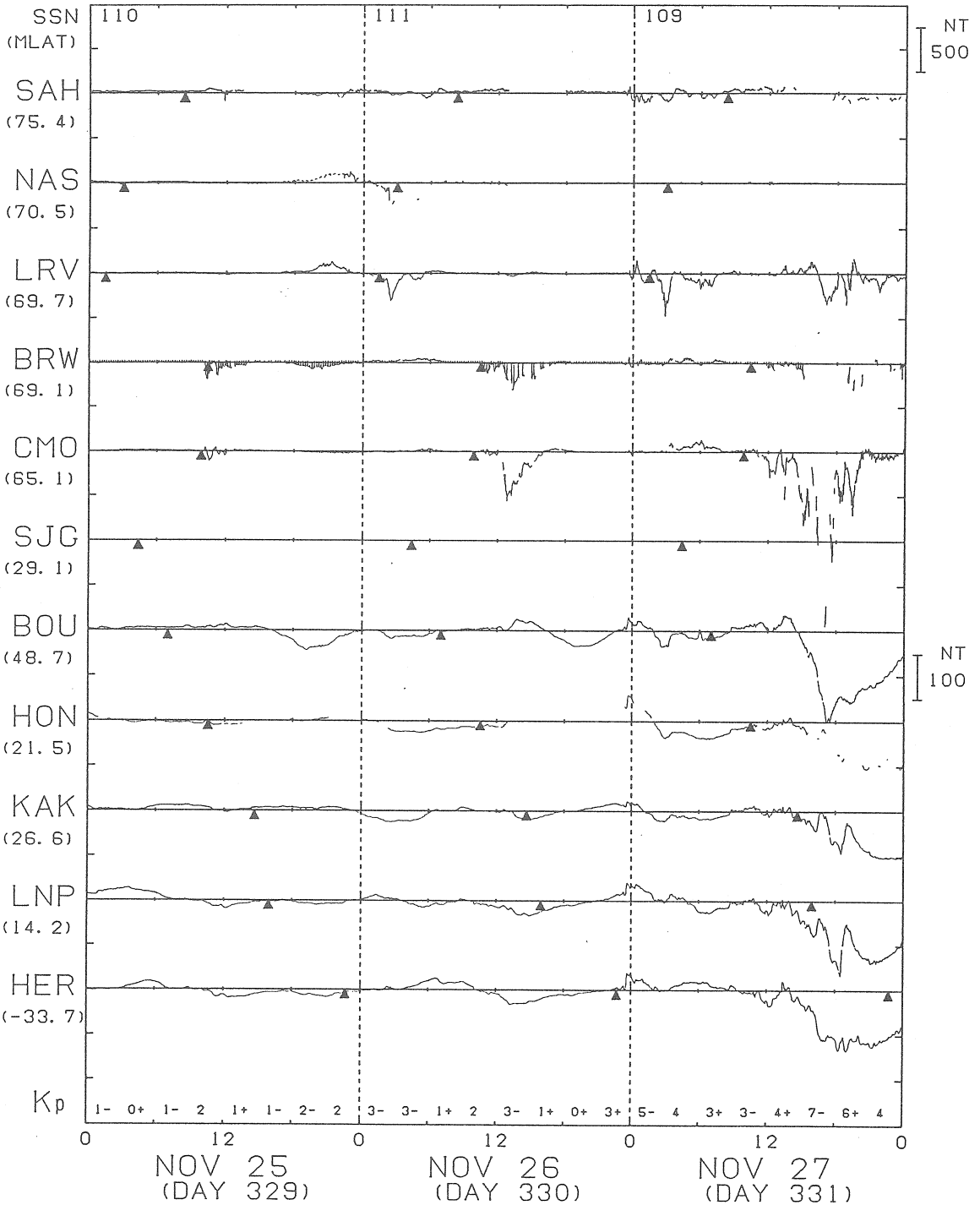
▲ : LOCAL MIDNIGHT



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

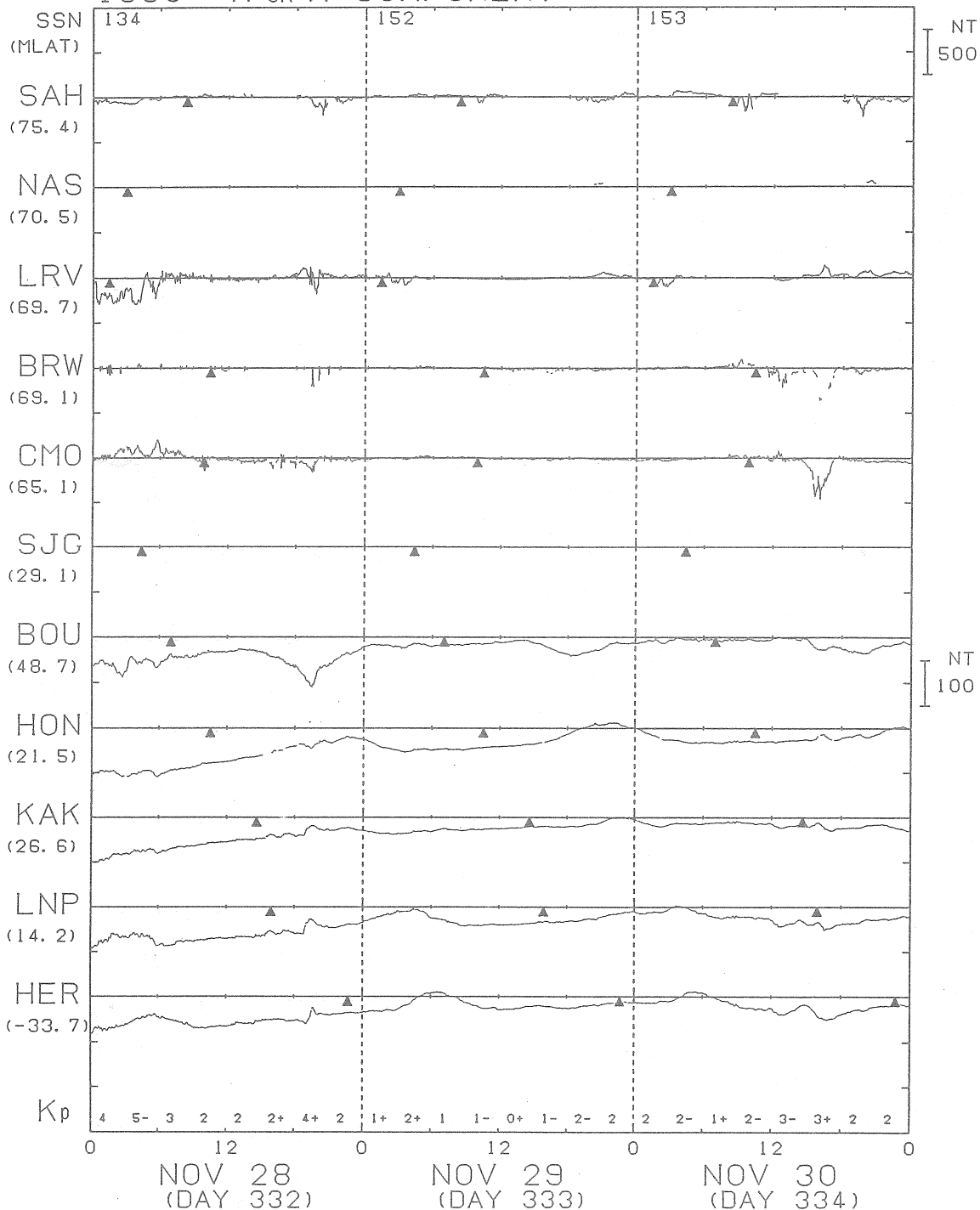
▲ : LOCAL MIDNIGHT



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

1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



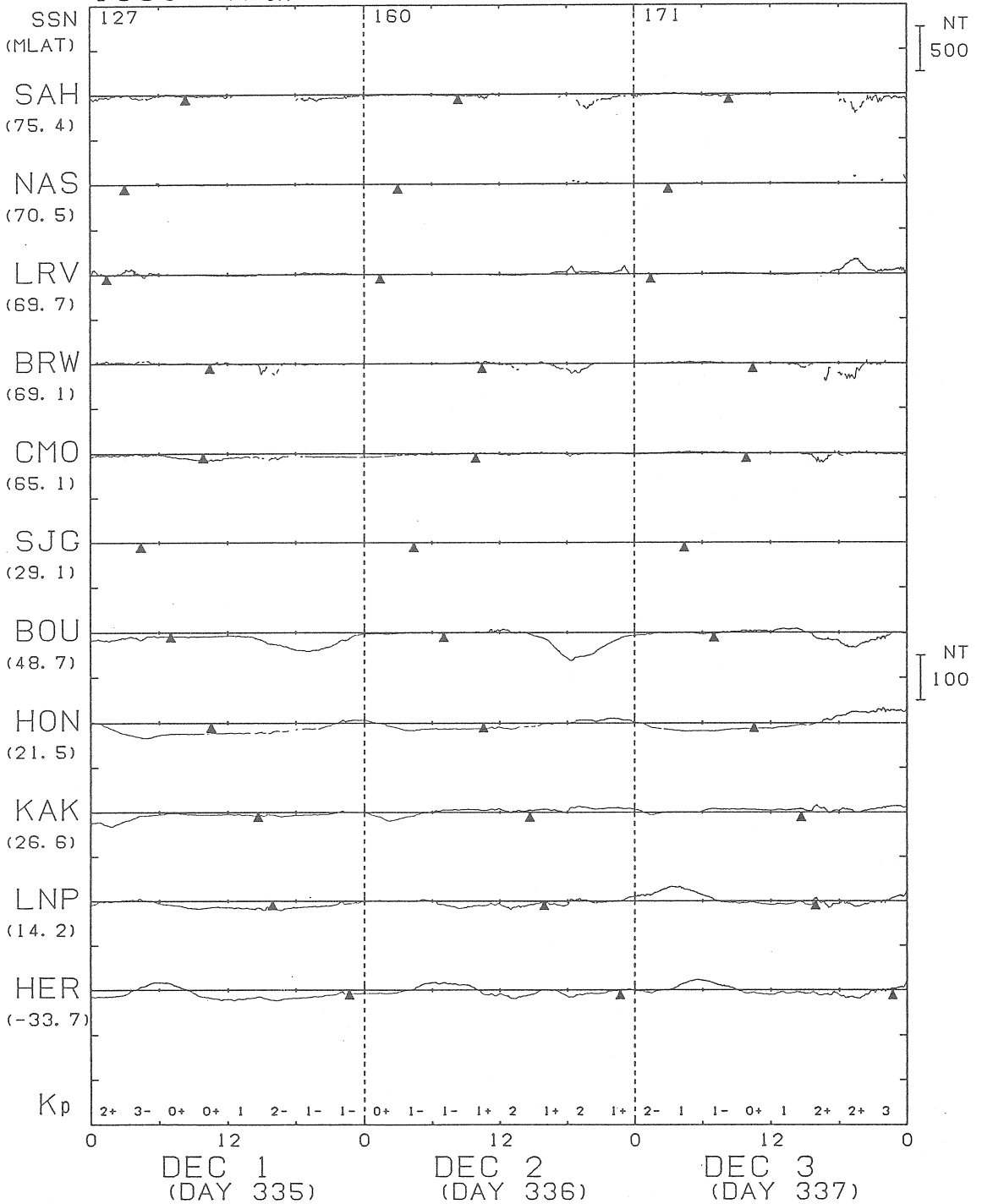
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

DECEMBER 1990

(DAY 335 - 365)

1990 H OR X-COMPONENT

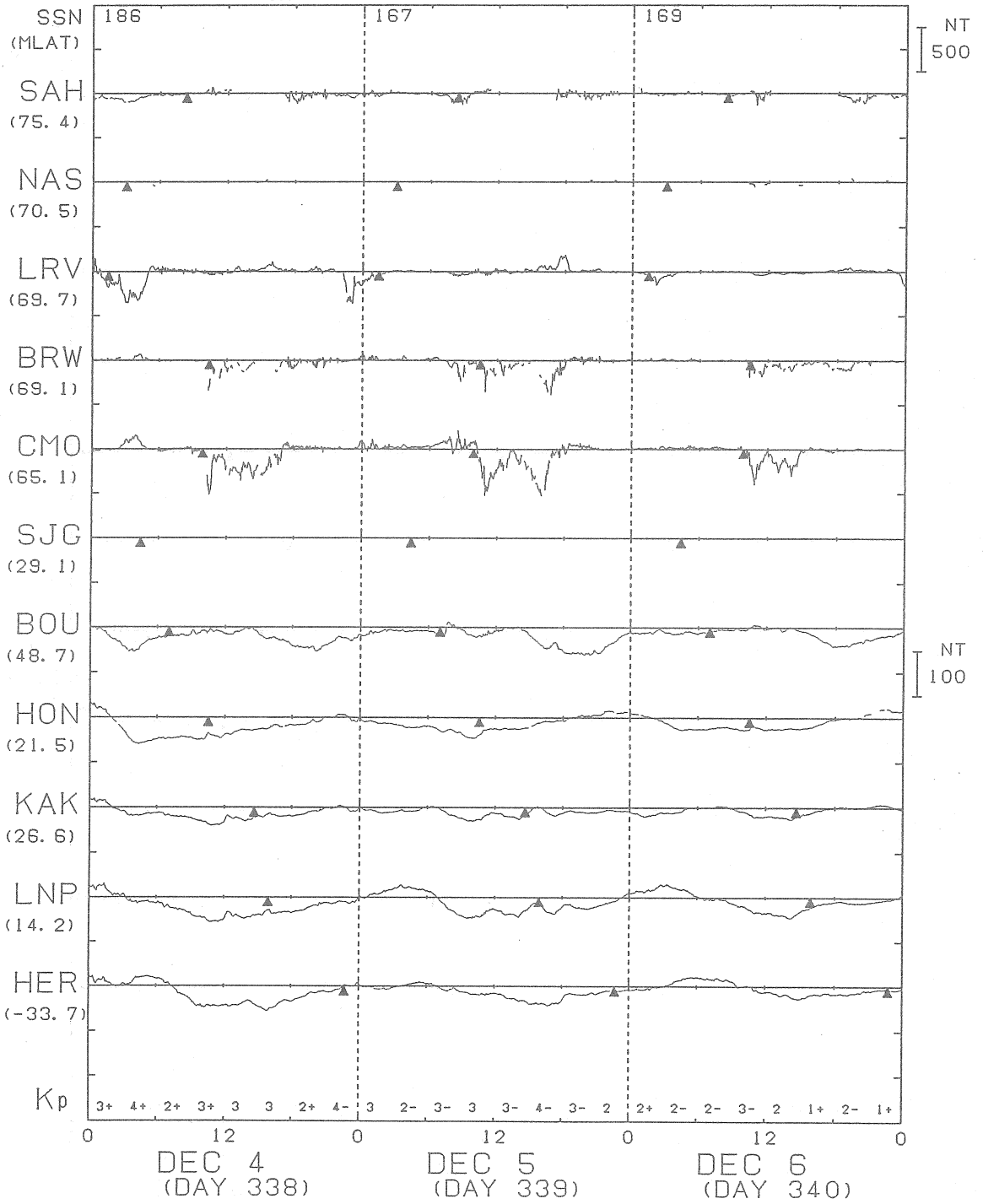
▲ : LOCAL MIDNIGHT



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

1990 H OR X-COMPONENT

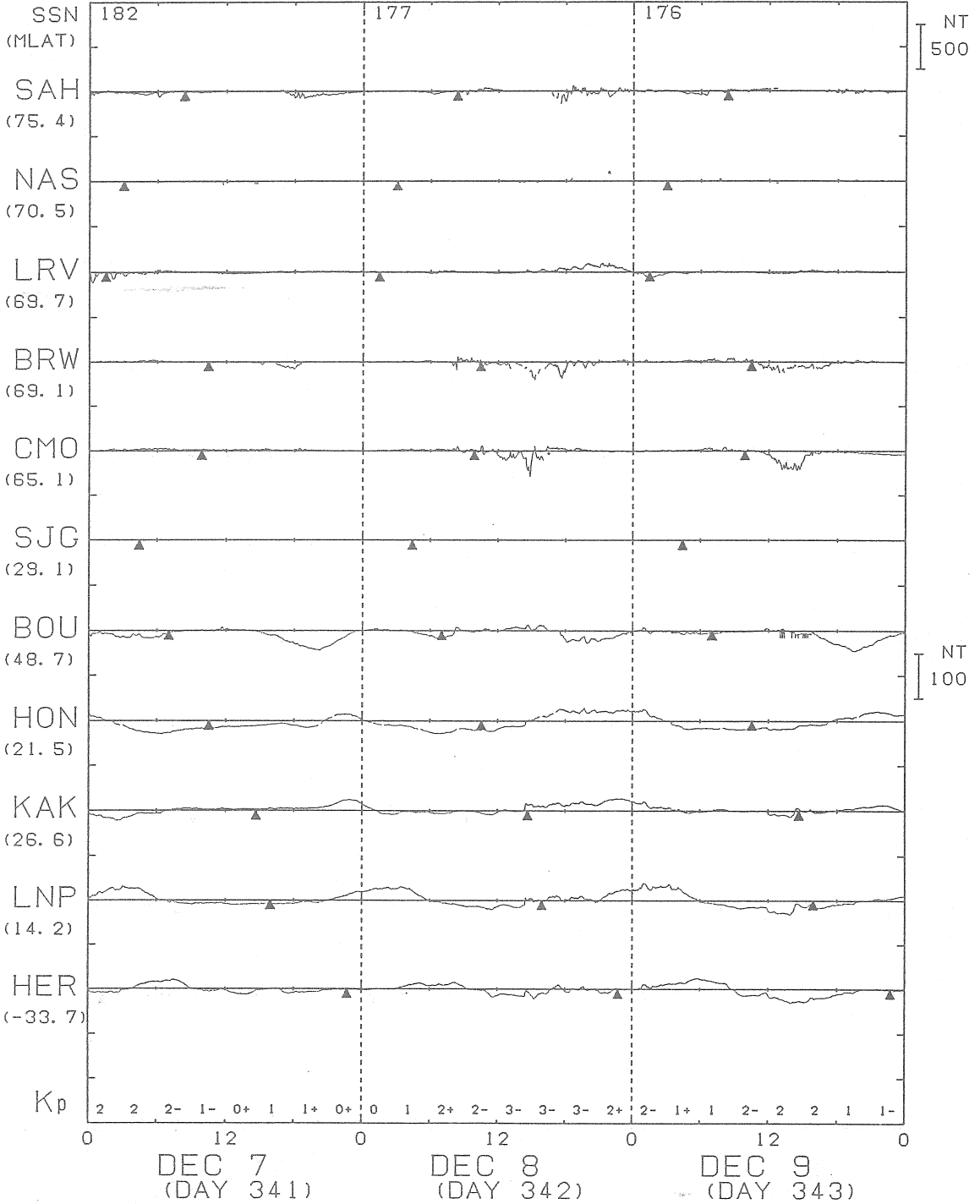
▲ : LOCAL MIDNIGHT



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

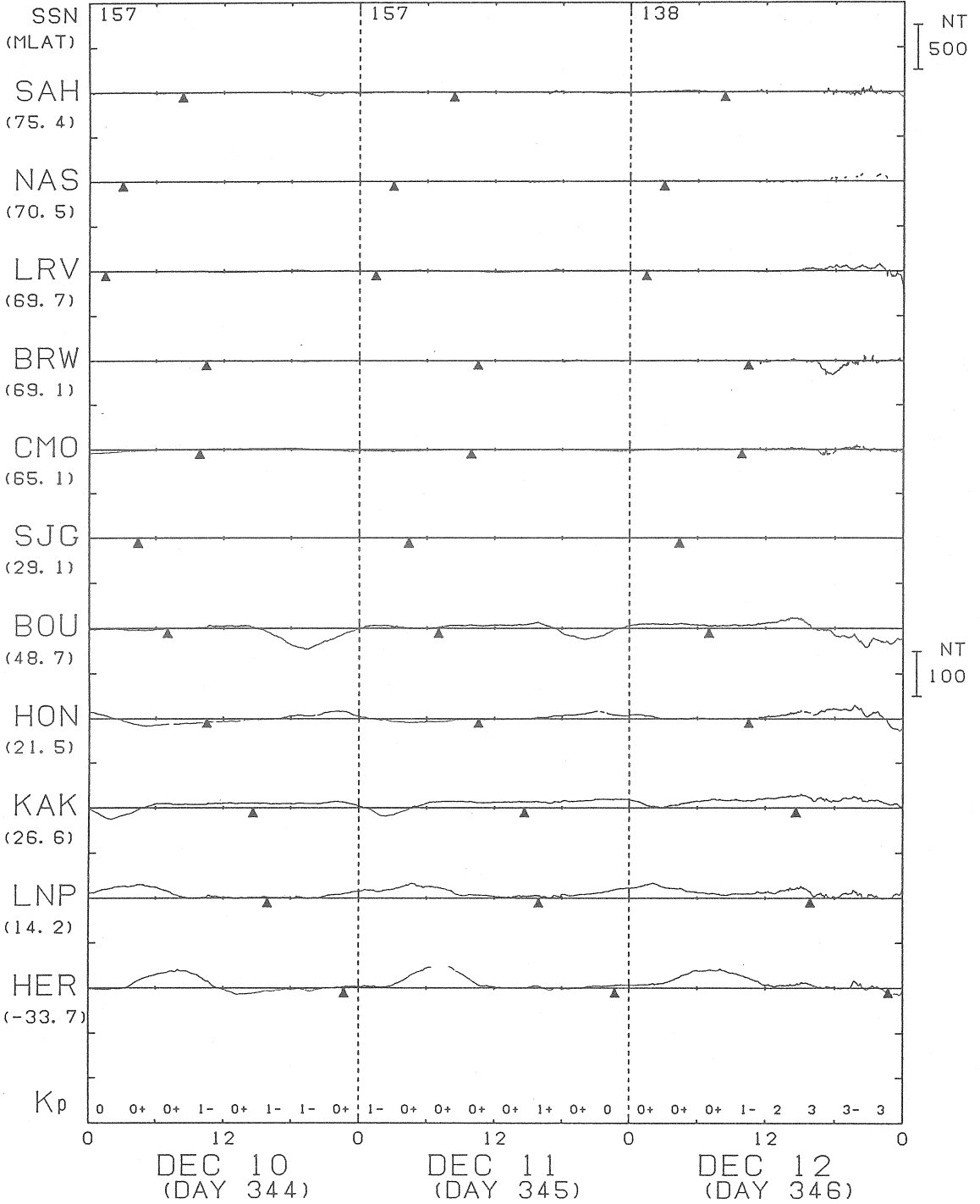
▲ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
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1990 H_{0R} X-COMPONENT

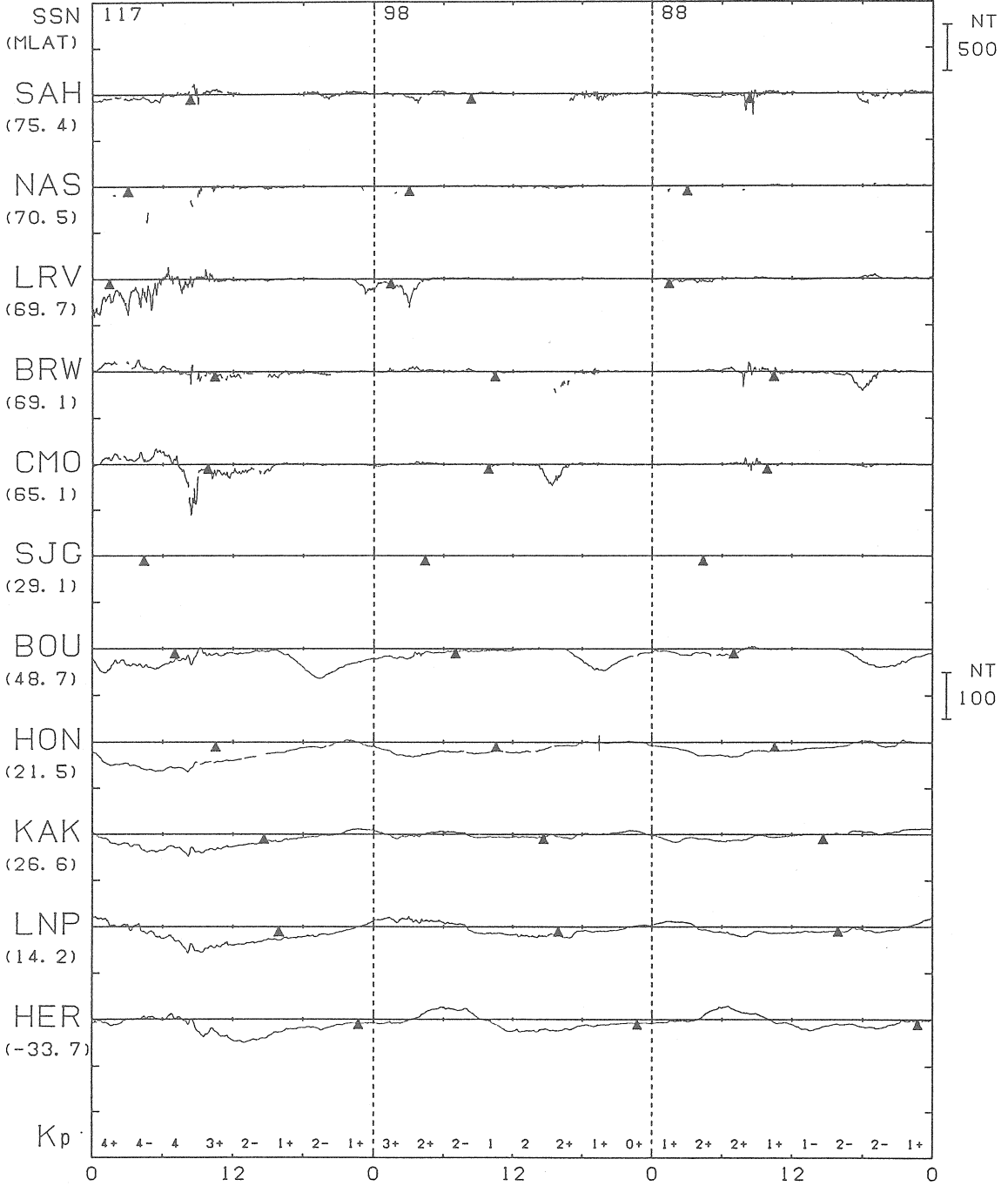
▲ : LOCAL MIDNIGHT



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1990 H OR X-COMPONENT

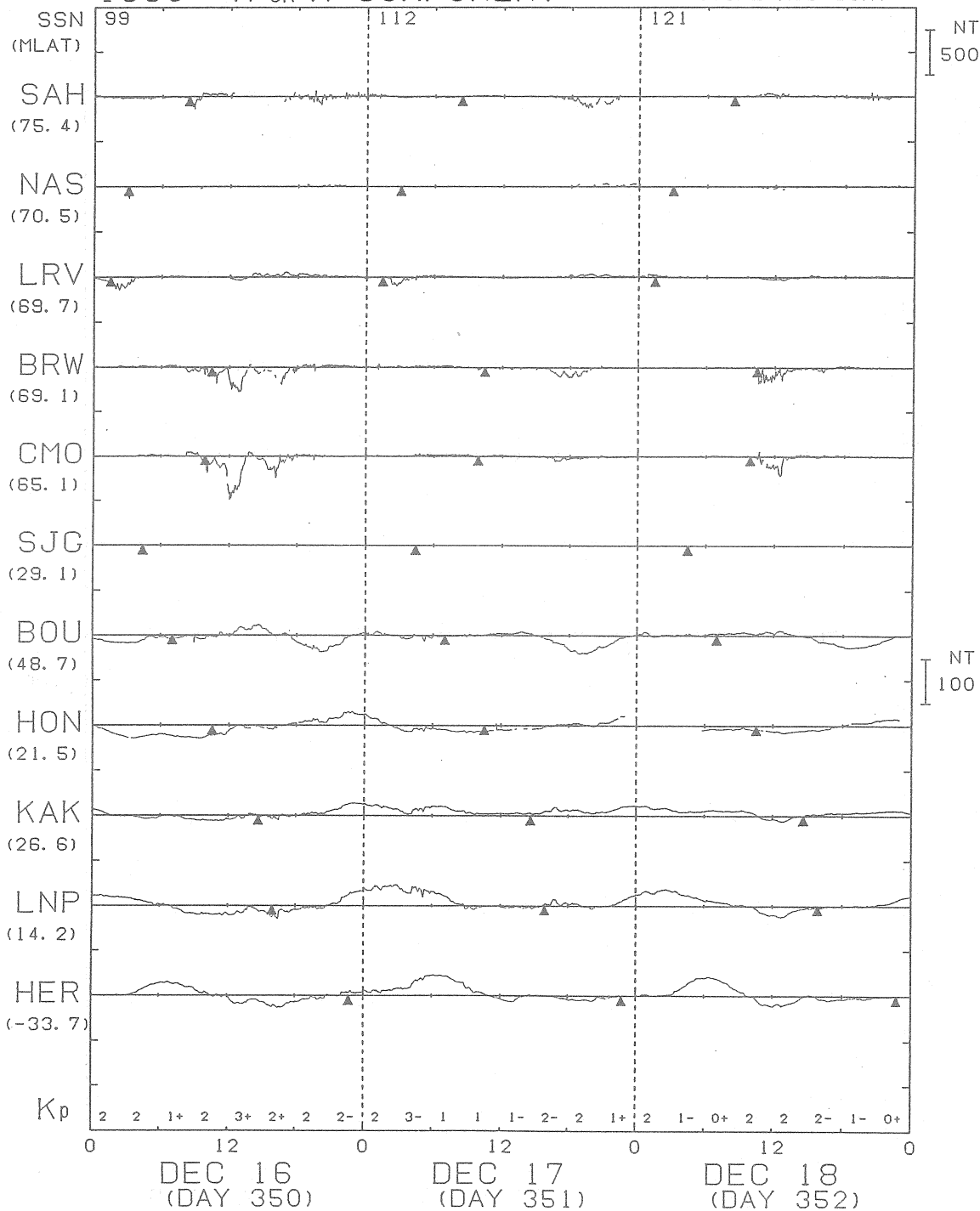
▲ : LOCAL MIDNIGHT



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

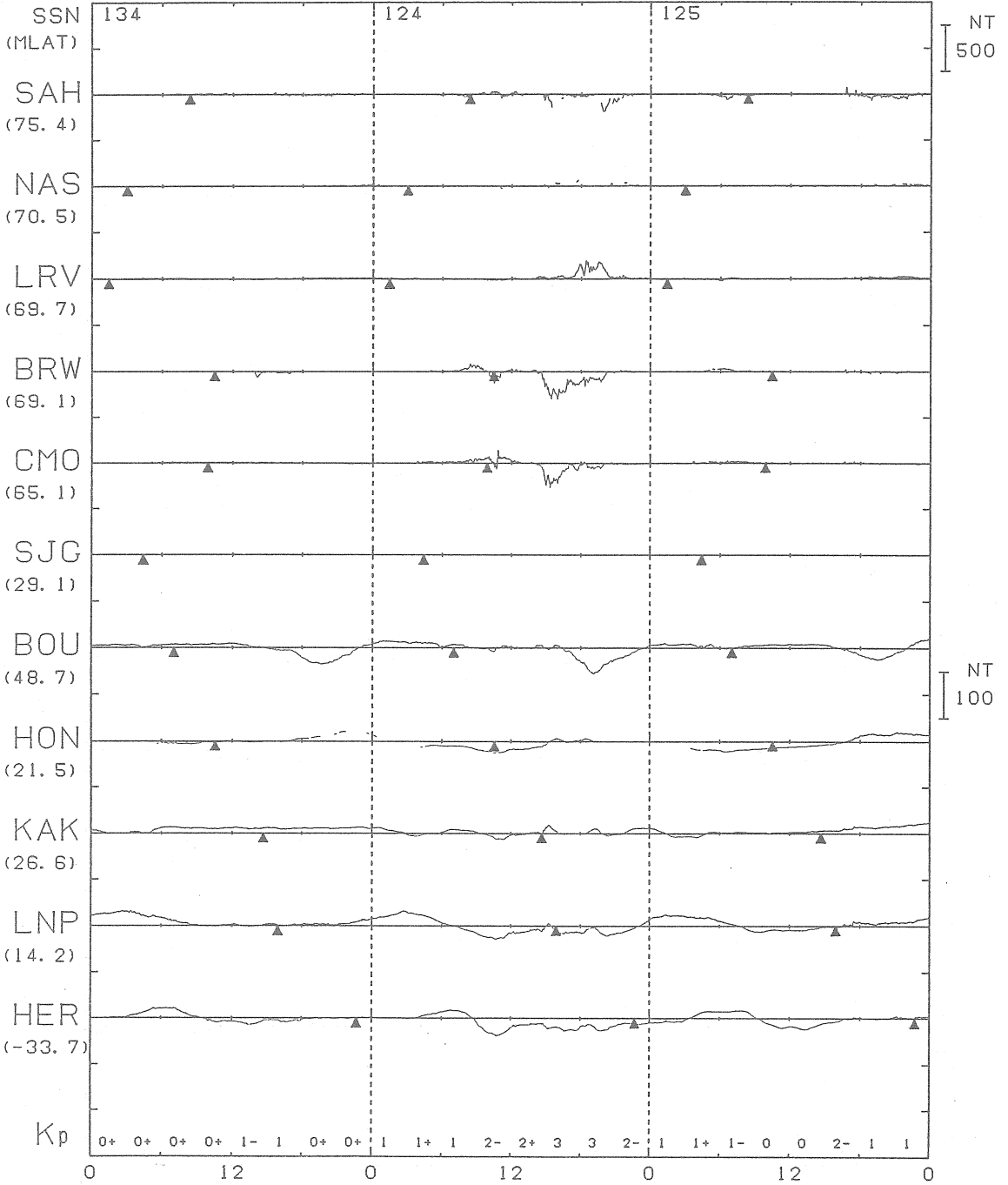
▲ : LOCAL MIDNIGHT



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

1990 H OR X-COMPONENT

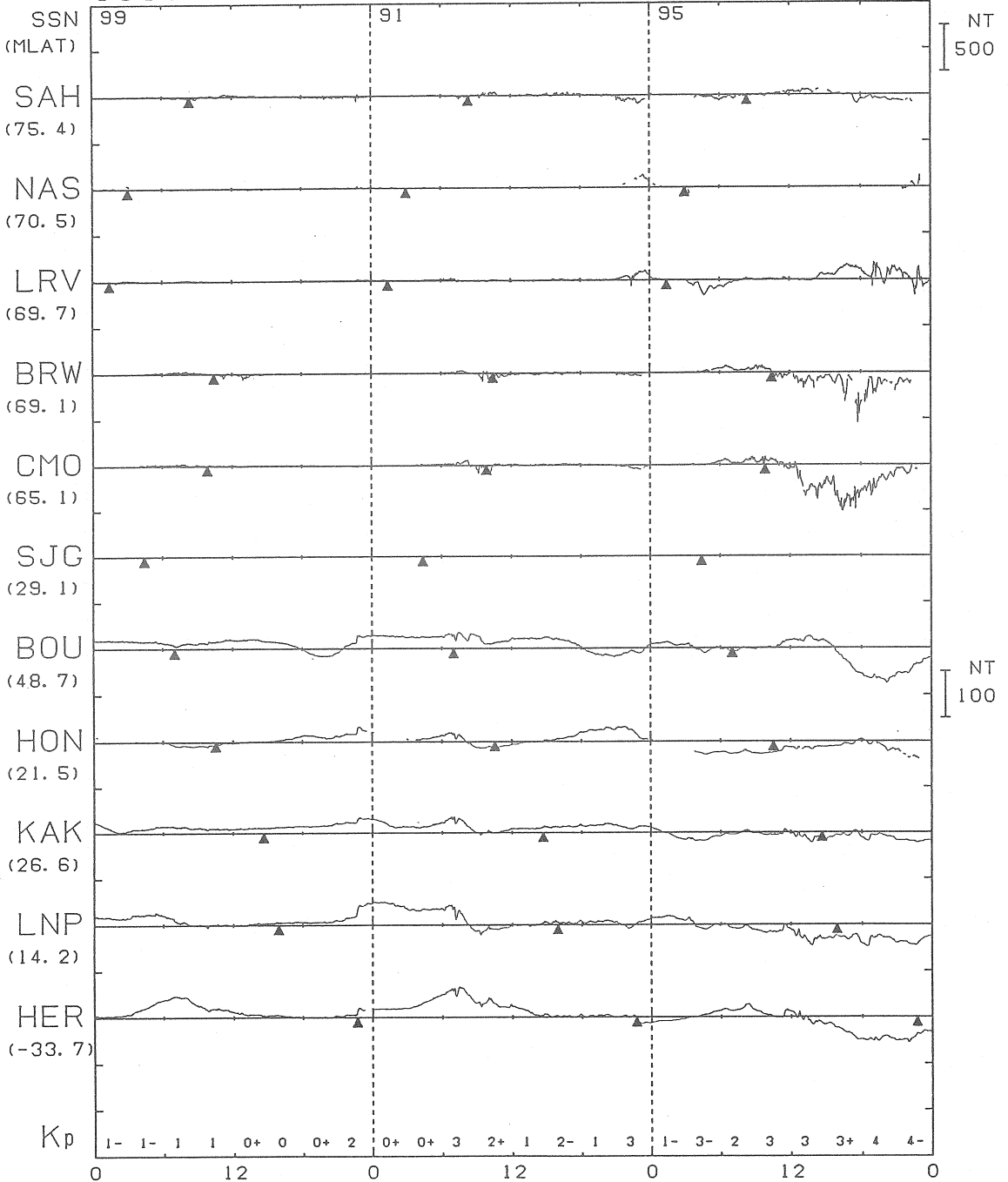
▲ : LOCAL MIDNIGHT



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

1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



DEC 22
(DAY 356)

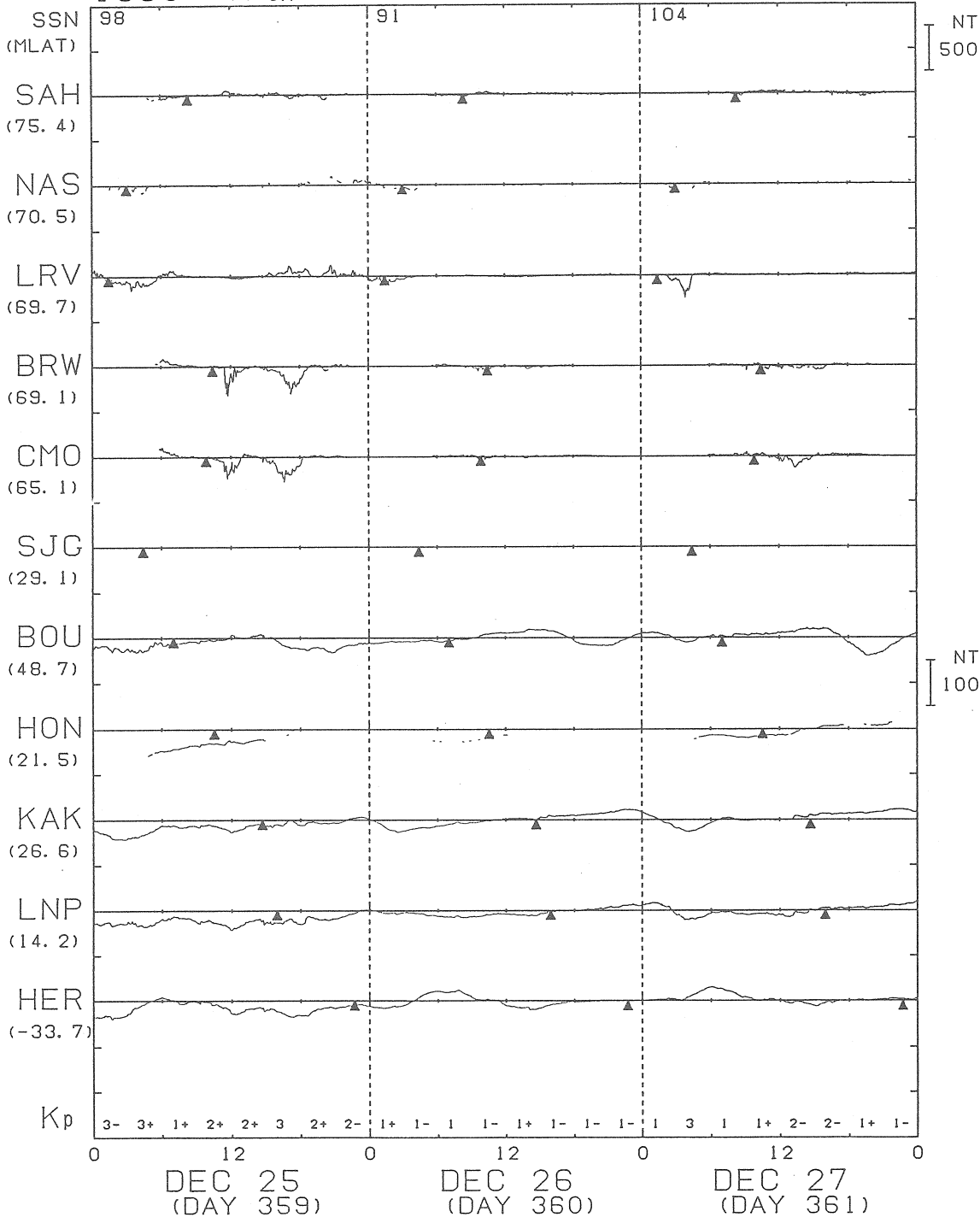
DEC 23
(DAY 357)

DEC 24
(DAY 358)

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

1990 H OR X-COMPONENT

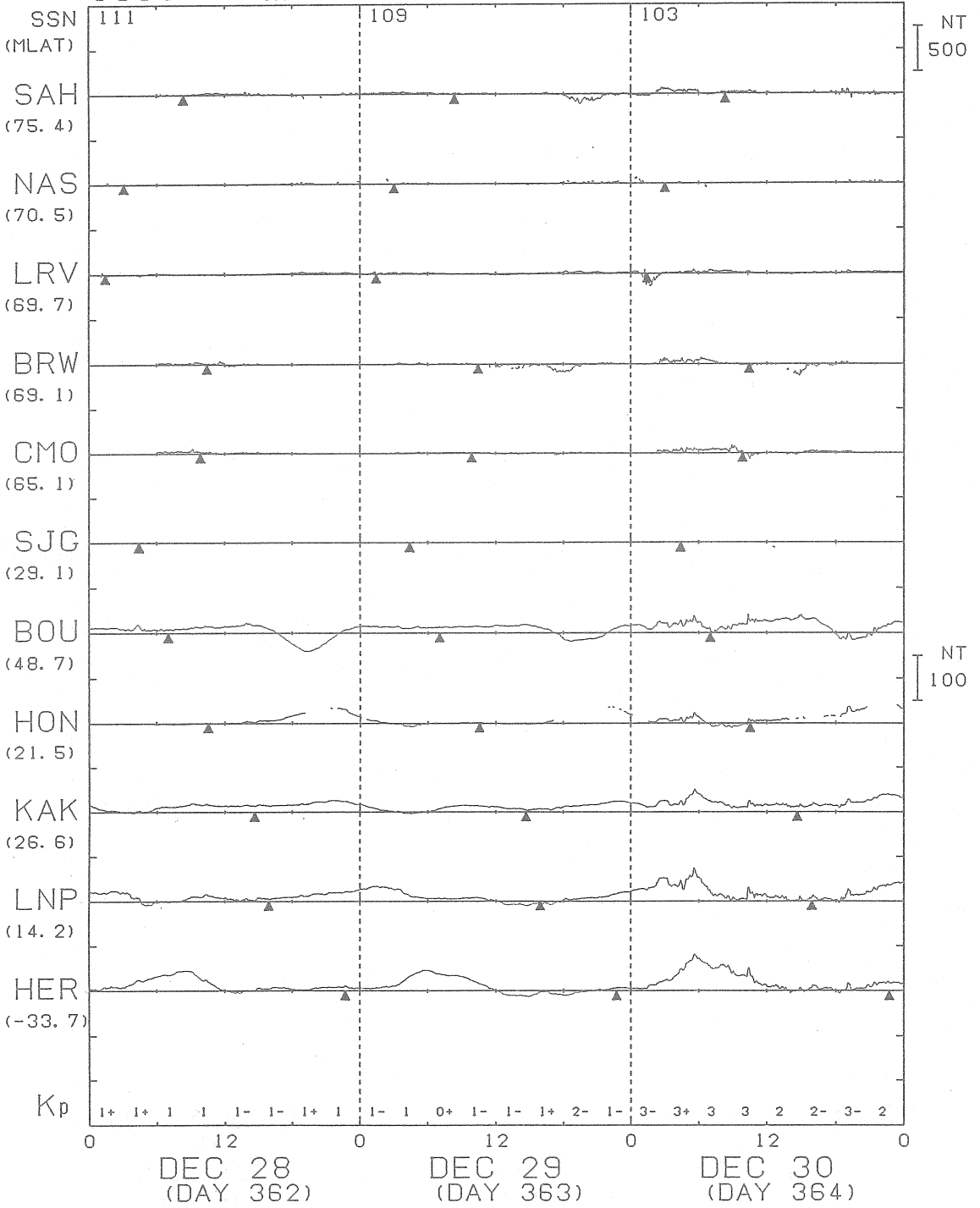
▲ : LOCAL MIDNIGHT



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

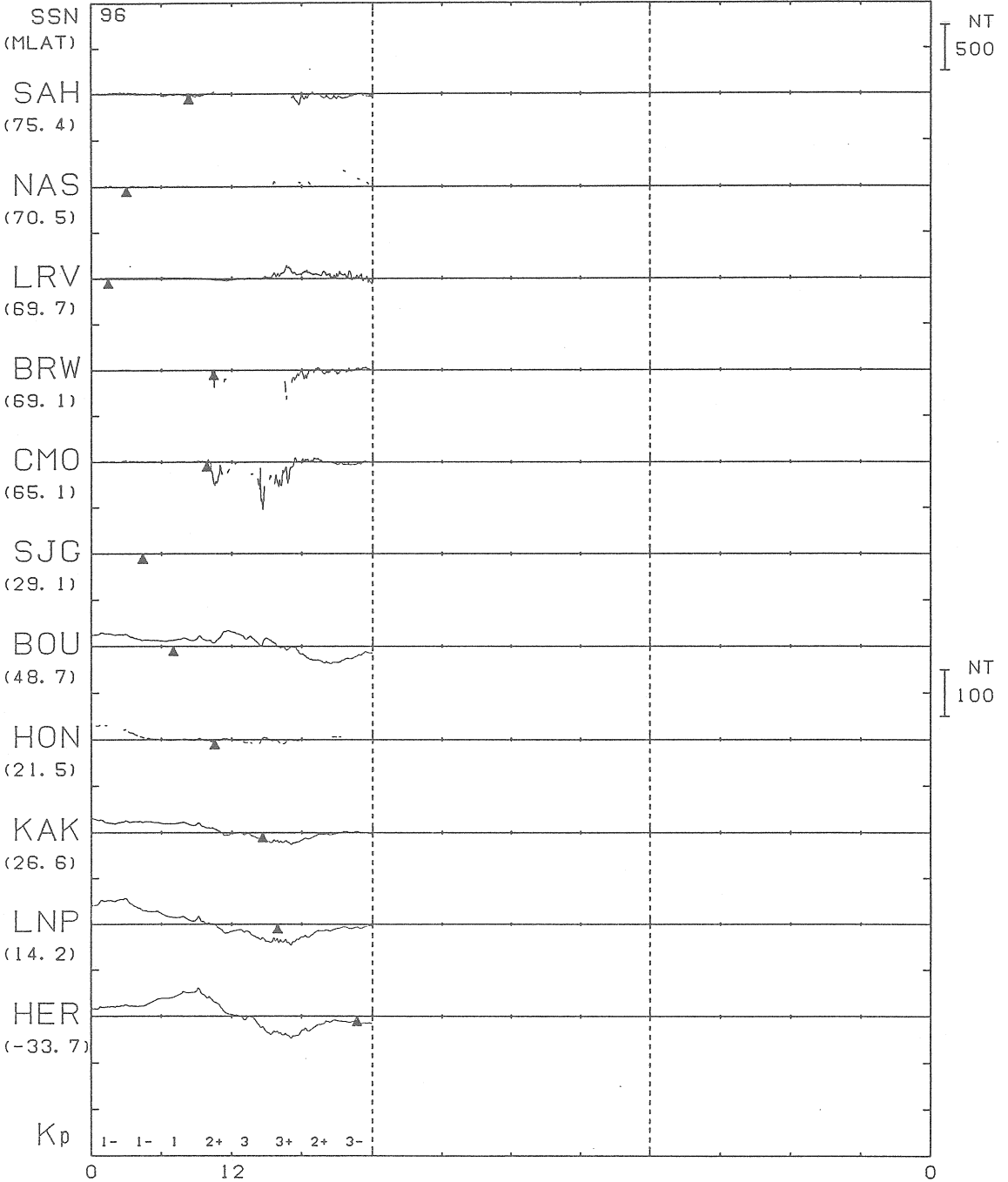
▲ : LOCAL MIDNIGHT



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

1990 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



DEC 31
(DAY 365)

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

