

**PROVISIONAL GEOMAGNETIC
DATA PLOTS
No. 6**

(January – June, 1992)

SEPTEMBER 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, 1992 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 (marked with * in Table 1) 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.

These data were kindly provided through the following organizations.

- (1)The World Data Center-A for STP.
- (2)The Leirvogur Magnetic Observatory, University of Iceland.
- (3)The Valentia Observatory of Meteorological Service.
- (4)The Kakioka Magnetic Observatory.
- (5)The Telecommunication Training Institute.
- (6)The Hermanus Magnetic Observatory.
- (7)The Swedish Institute of Space Physics in Kiruna.

The distribution and the information of the 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.

Table 1.

STATION NAME	ABB CODE	ORG No.	GEOGRAPHIC		GEOMAGNETIC		INVARIANT LAT.	PLOT SCALE
			LAT.	LONG.	LAT.	LONG.		
*Resolute Bay	RES	1	74.7	265.1	83.1	296.0	83.9	500nT/div
*Baker Lake	BLC	1	64.3	264.0	73.7	319.2	74.6	"
*Narssarssuaq	NAS	1	61.2	314.6	70.6	38.7	67.5	"
Leirvogur	LRV	2	64.2	338.3	69.7	72.0	65.7	"
*Yellowknife	YKC	1	62.5	245.5	69.1	296.6	69.8	"
*Barrow	BRW	1	71.3	203.3	69.1	243.7	69.6	"
*Fort Churchill	FCC	1	58.8	265.9	68.5	326.1	69.6	"
*Pos. de la Baleine	PDB	1	55.3	282.3	66.2	350.3	66.8	"
Kiruna	KIR	7	67.8	20.4	65.1	116.2	64.5	"
*College	CMO	1	64.9	212.2	65.1	259.2	64.8	"
*Meanook	MEA	1	54.6	246.7	61.9	304.0	62.5	"
Valentia	VAL	3	51.9	349.8	56.2	74.8	51.0	100nT/div
*San Juan	SJG	1	18.4	293.9	29.1	5.2	32.5	"
*Boulder	BOU	1	40.1	254.8	48.7	319.0	49.1	"
*Honolulu	HON	1	21.3	202.0	21.5	268.6	20.2	"
Kakioka	KAK	4	36.2	140.2	26.6	207.8	25.9	"
Lumping	LNP	5	25.0	121.2	14.2	191.3	7.6	"
Hermanus	HER	6	-34.4	19.2	-33.7	82.7	43.6	"

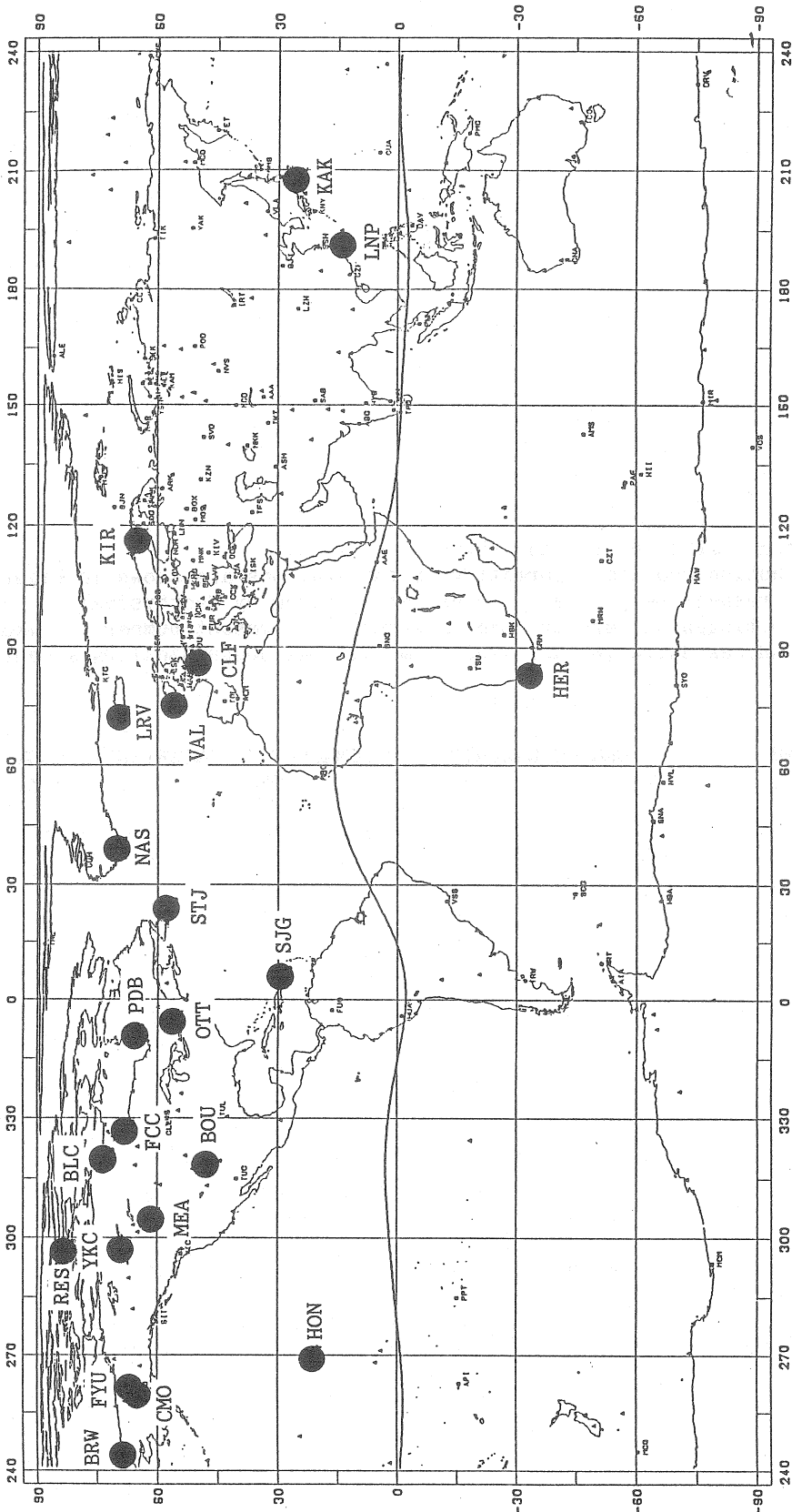
*: From RGON database (Provisional data)

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

WDC-C2 for Geomagnetism,
Faculty of Science, Kyoto University,
Kyoto 606-01, Japan.

Telephone: 81-75-753-3929
Facsimile: 81-75-722-7884

DISTRIBUTION OF GEOMAGNETIC OBSERVATORIES



GEOMAGNETIC COORDINATE (1985.0)

— DIP EQUATOR AT 100 KM ALTITUDE

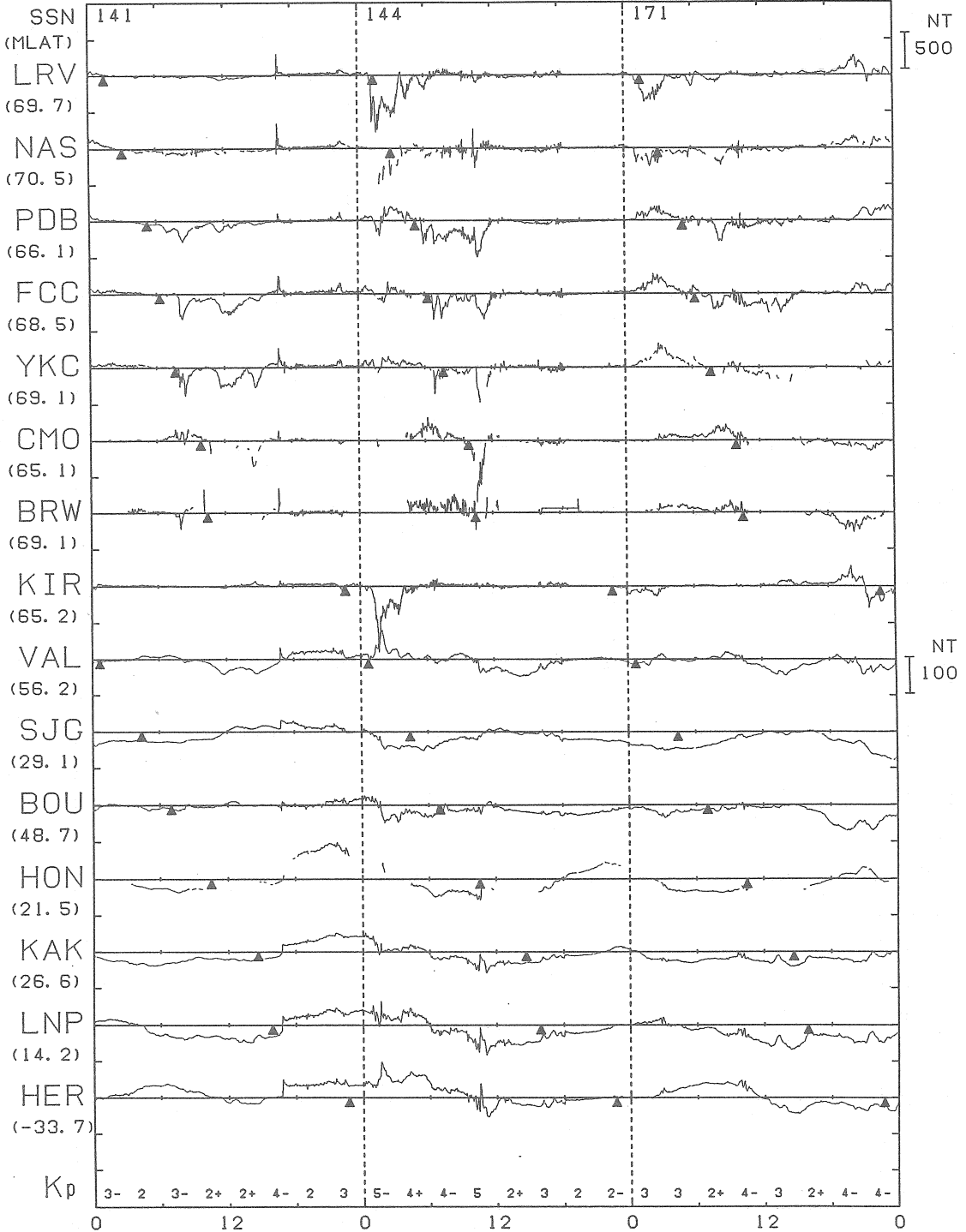
Fig.1 Data are obtained at the observatories shown by the solid circles.
 (Data from FYU, OTT, STJ and CLF are not used in this volume.)

JANUARY 1992

(DAY 001 - 031)

1992 H OR X-COMPONENT

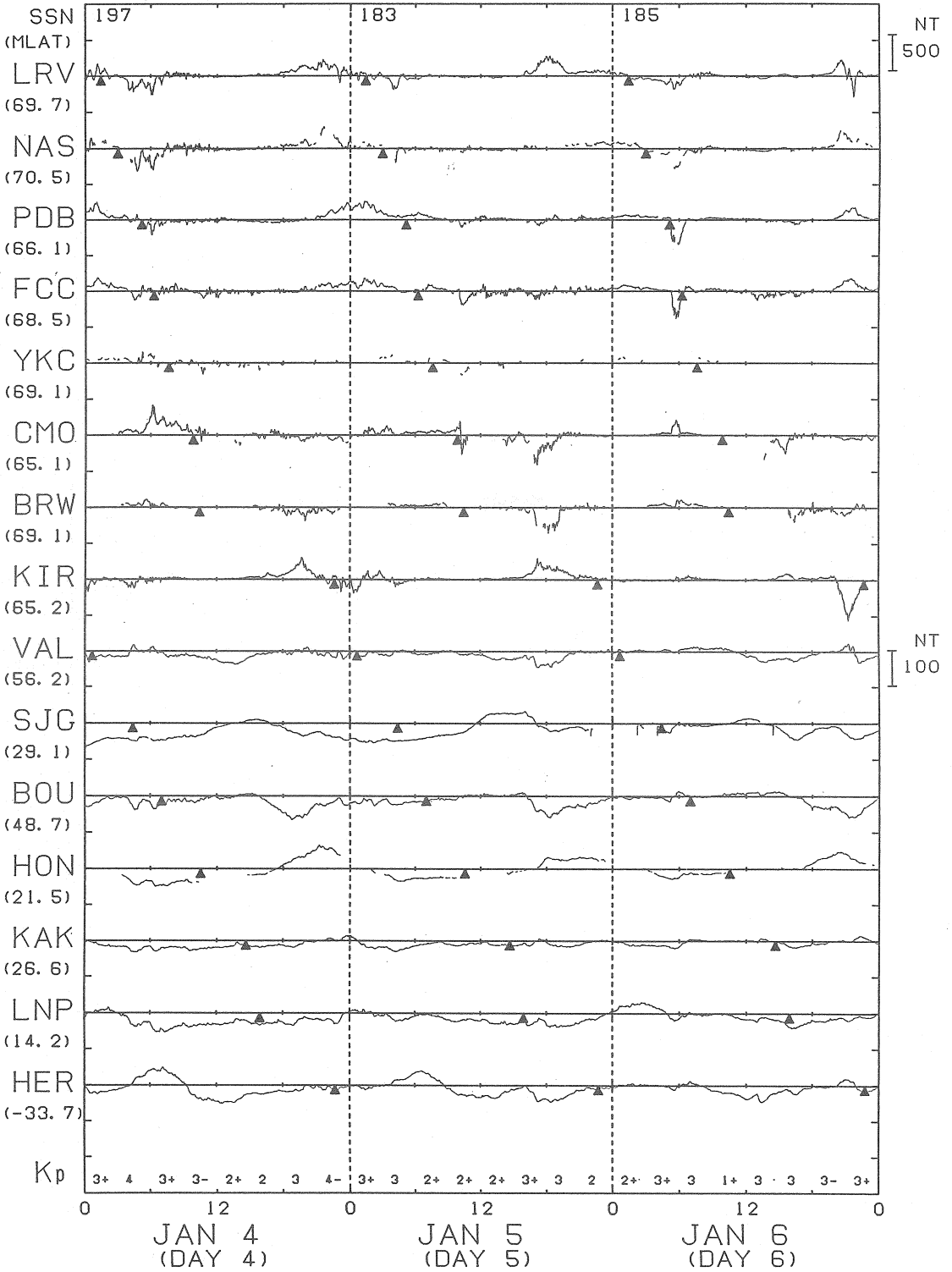
▲ : LOCAL MIDNIGHT



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

1992 H OR X-COMPONENT

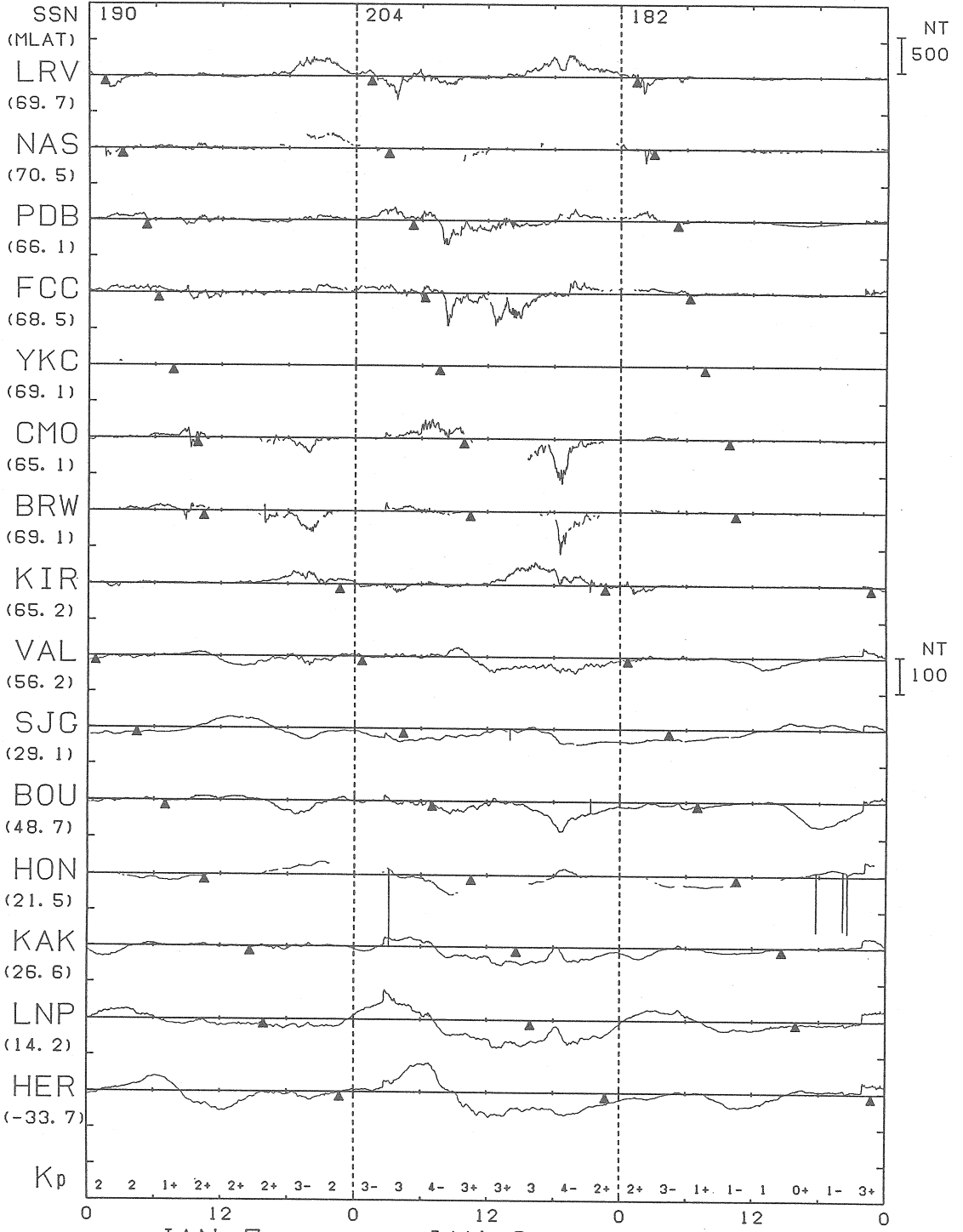
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1992 H OR X-COMPONENT

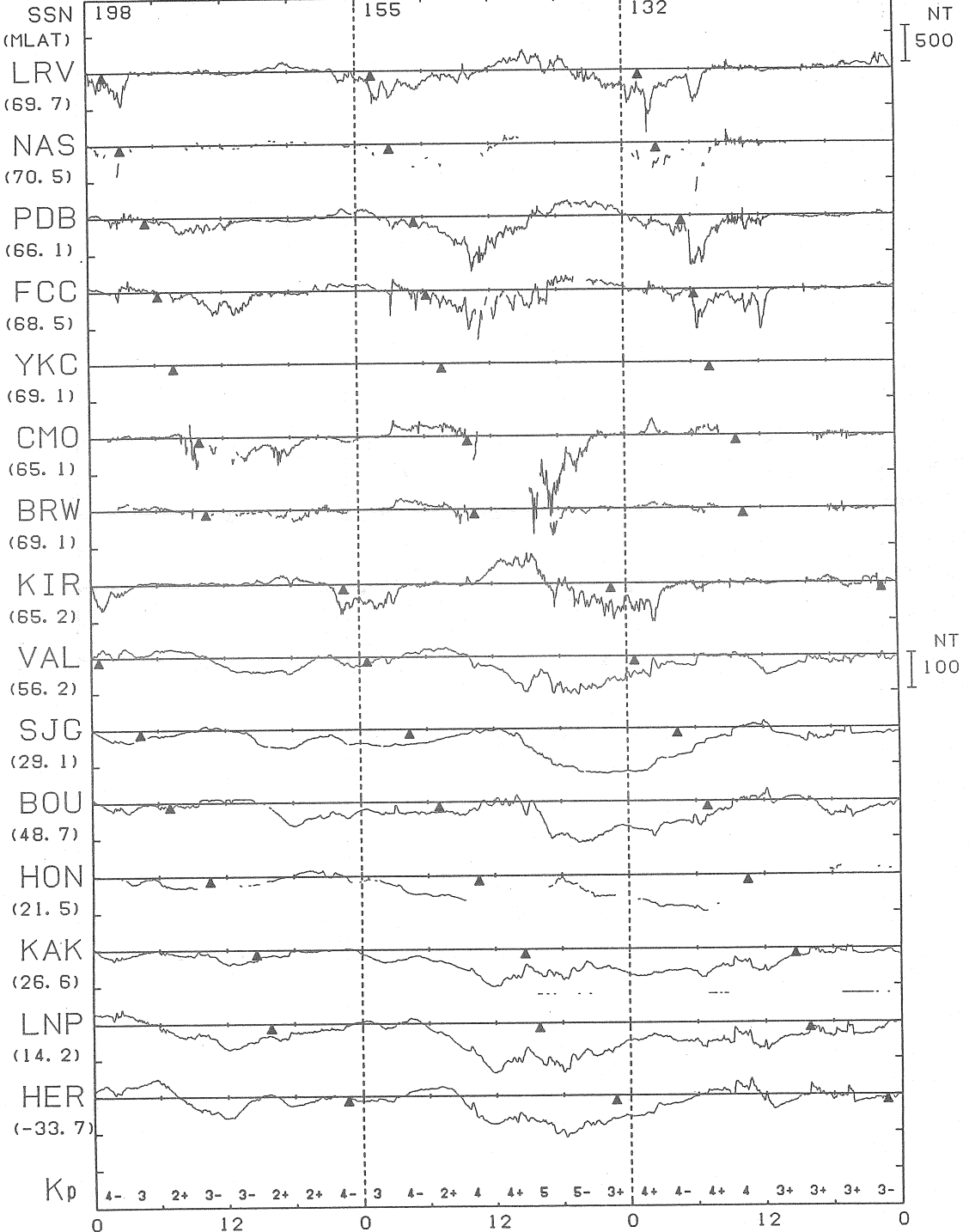
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1992 H OR X-COMPONENT

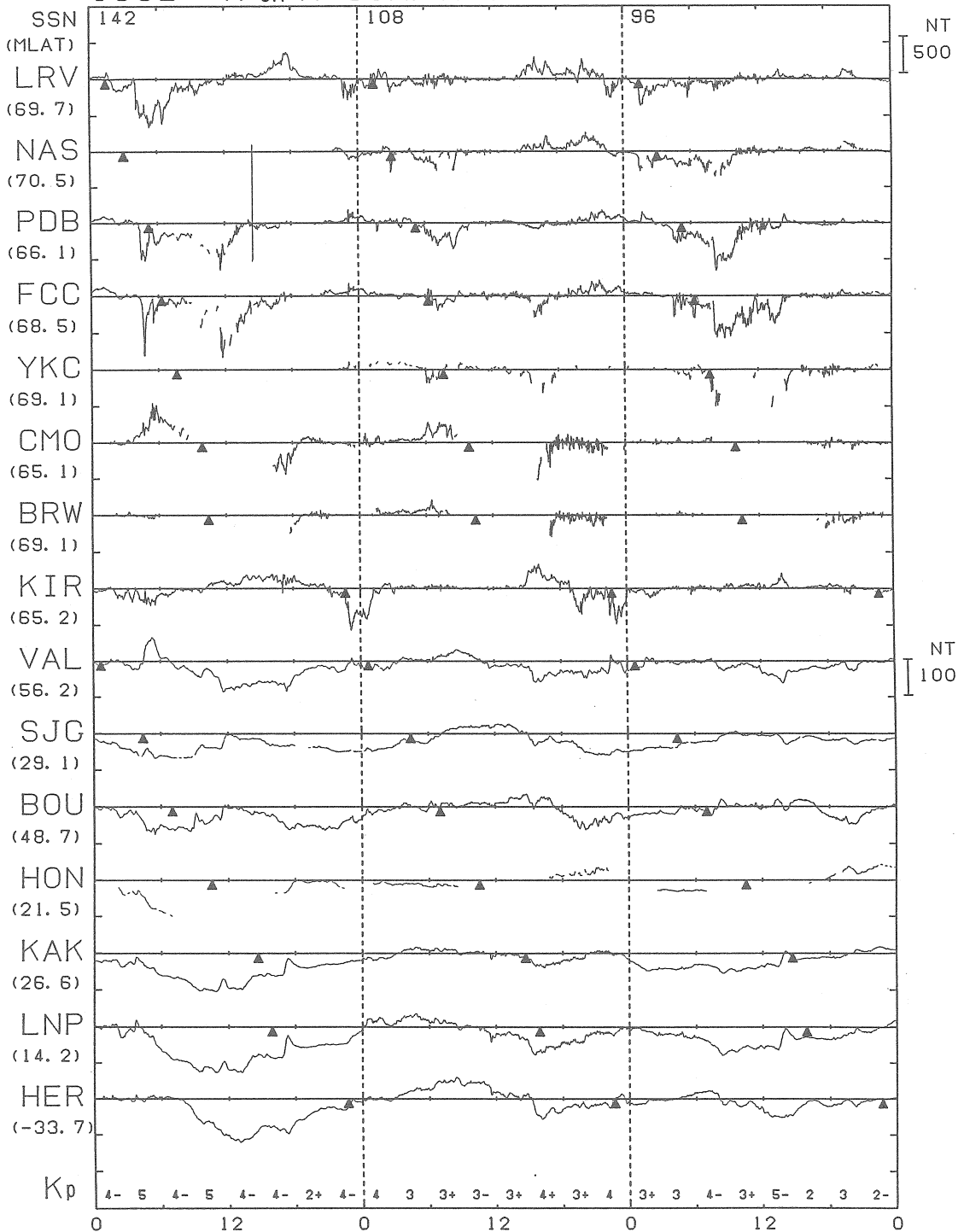
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1992 H OR X-COMPONENT

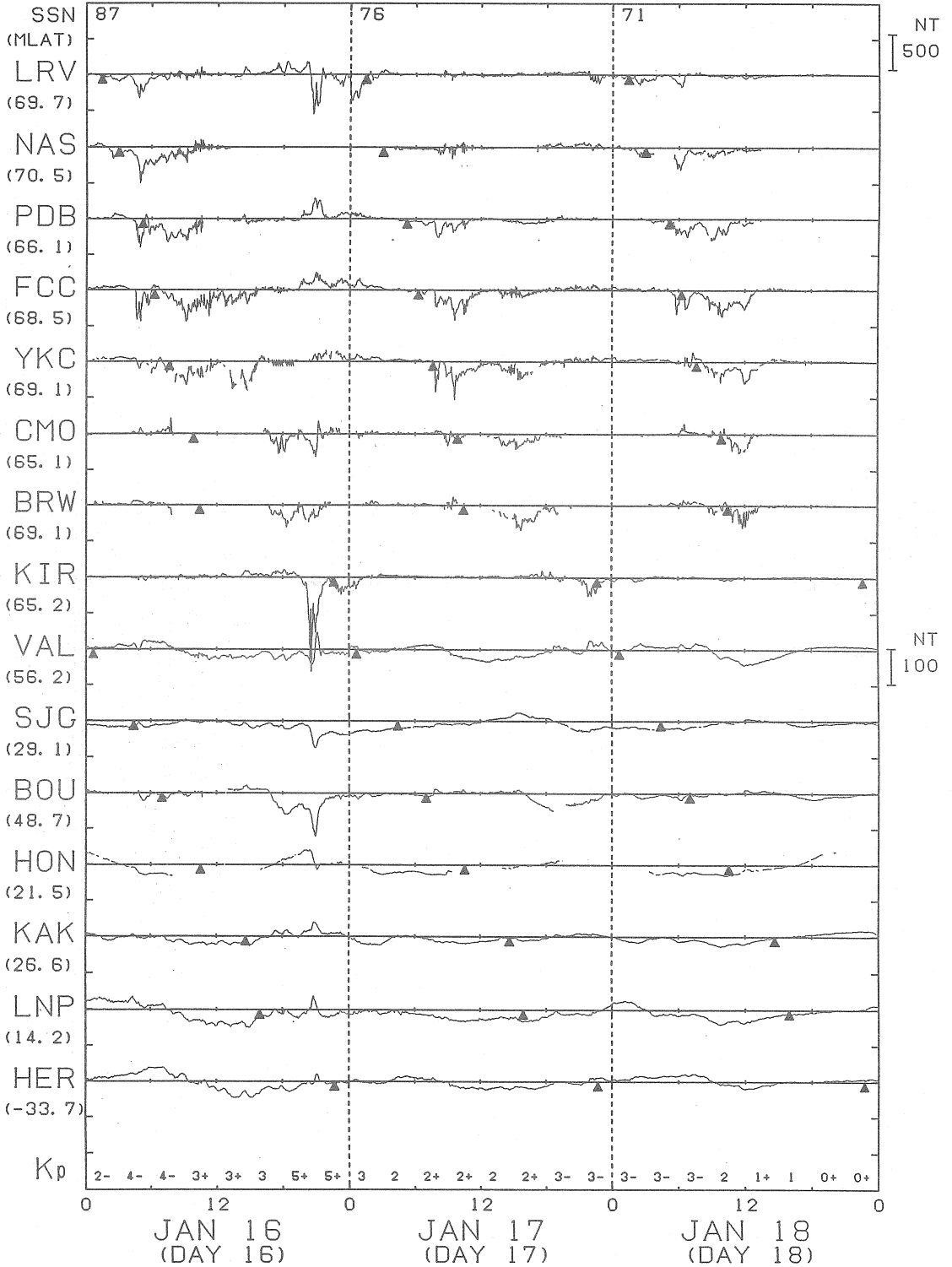
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1992 H OR X-COMPONENT

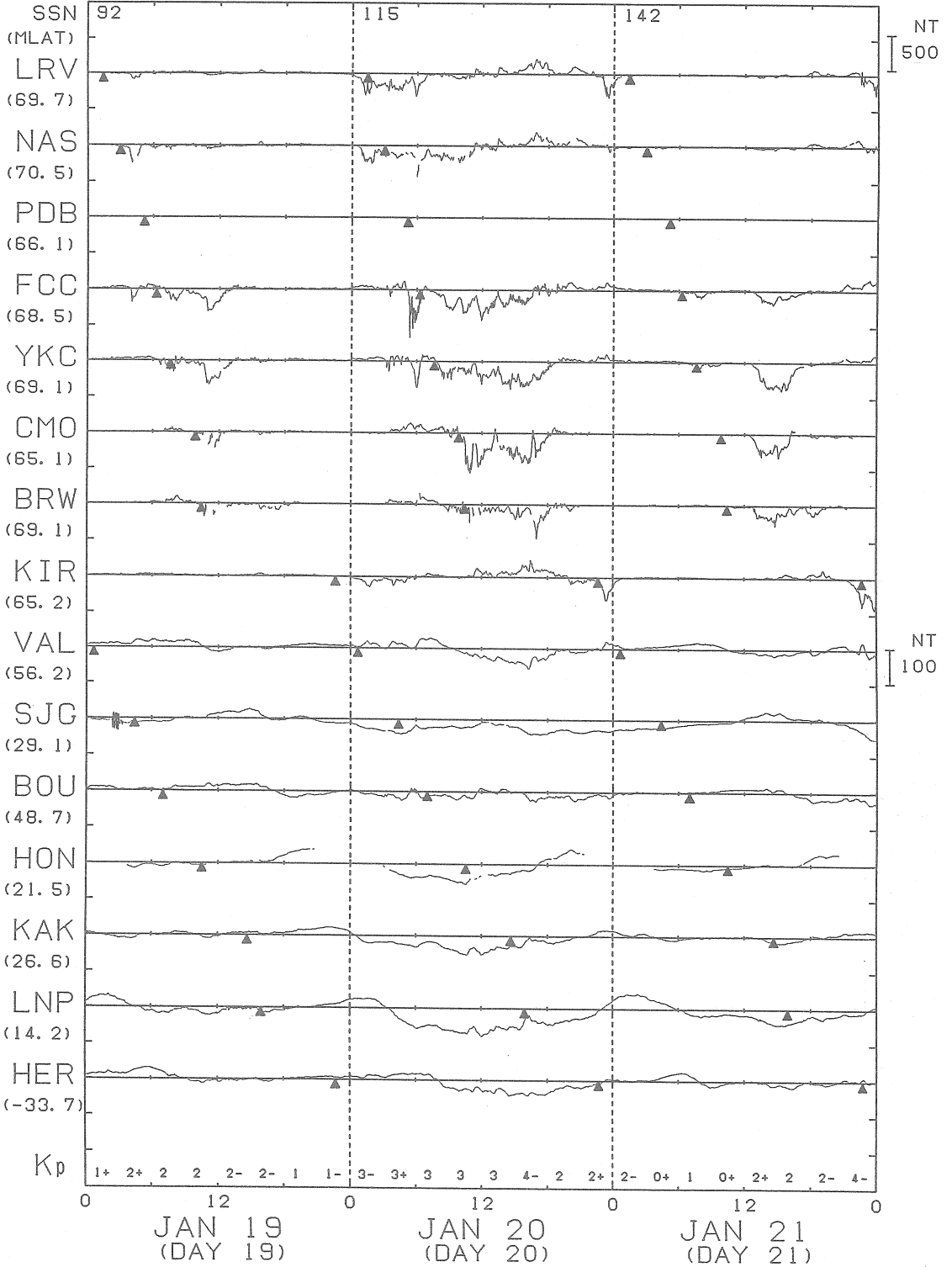
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1992 H OR X-COMPONENT

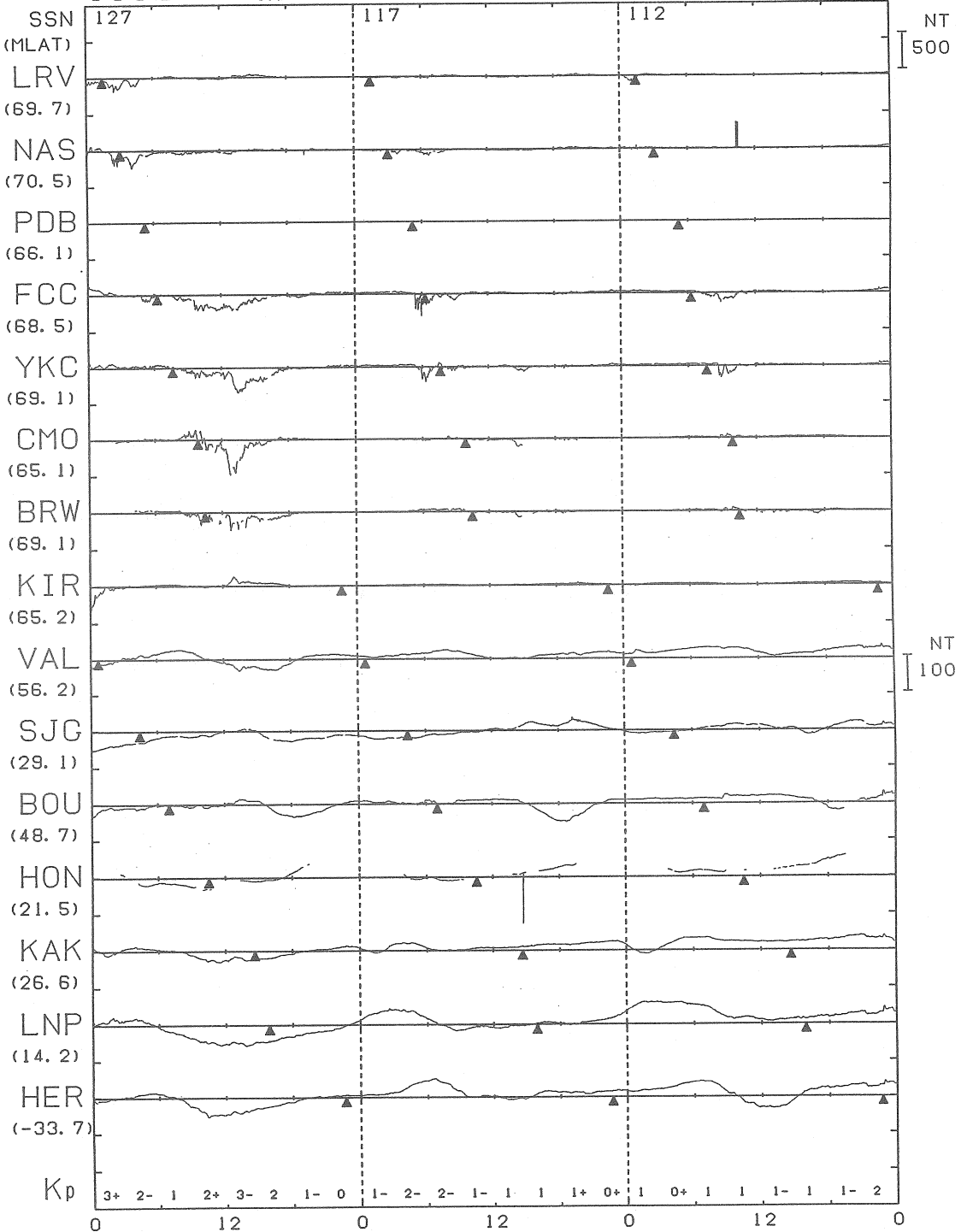
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1992 H OR X-COMPONENT

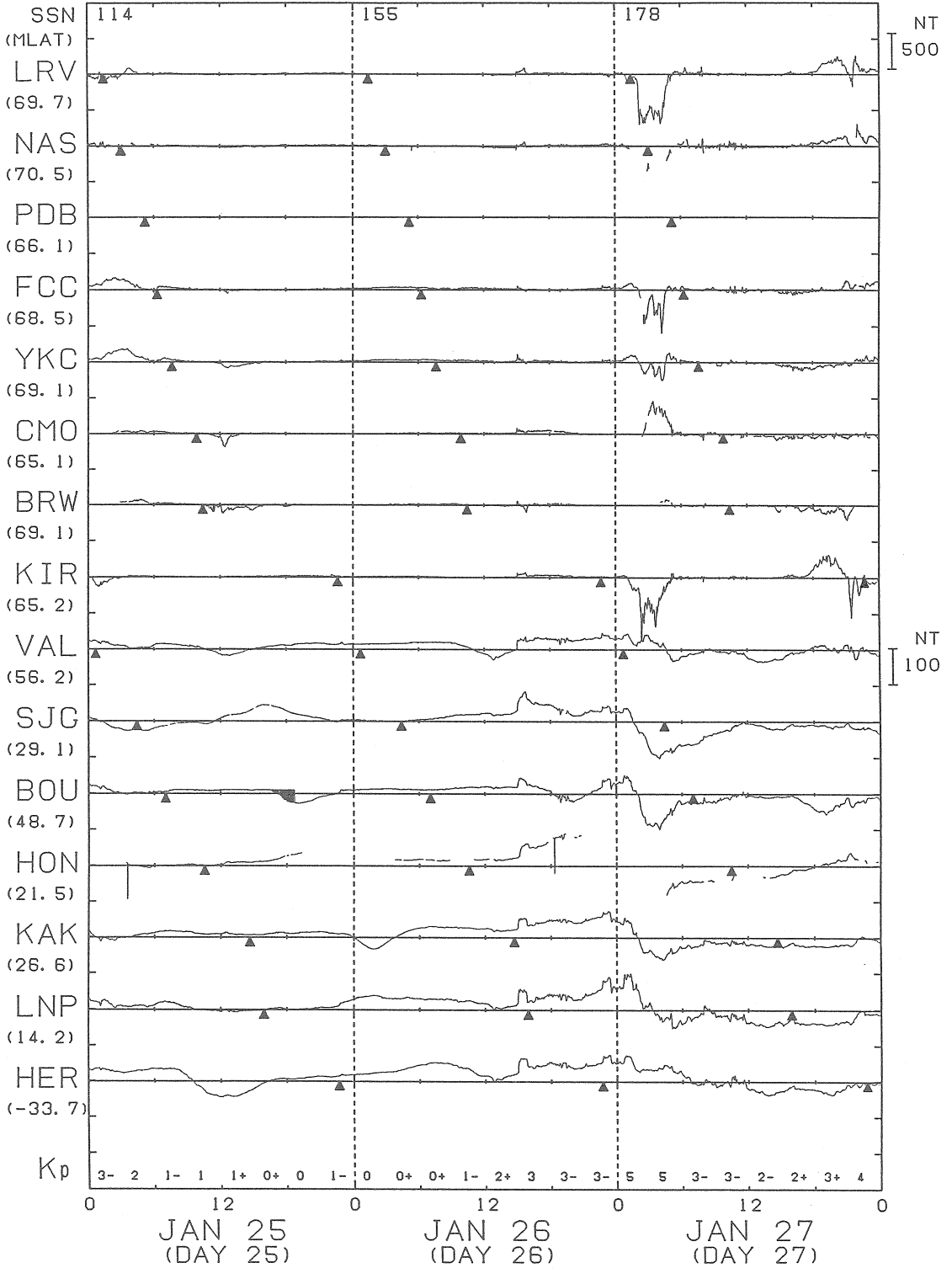
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1992 H_{0R} X-COMPONENT

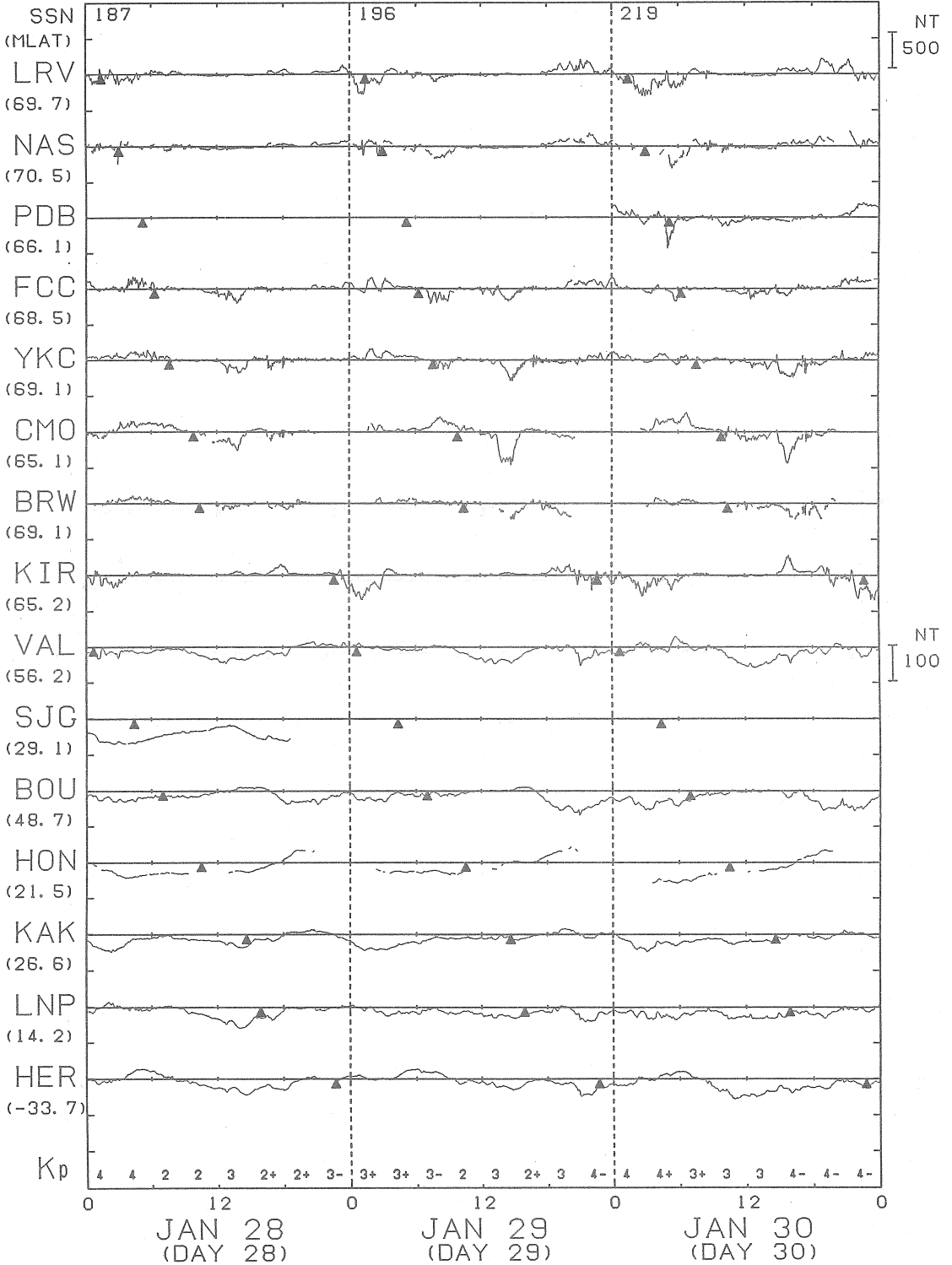
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1992 H OR X-COMPONENT

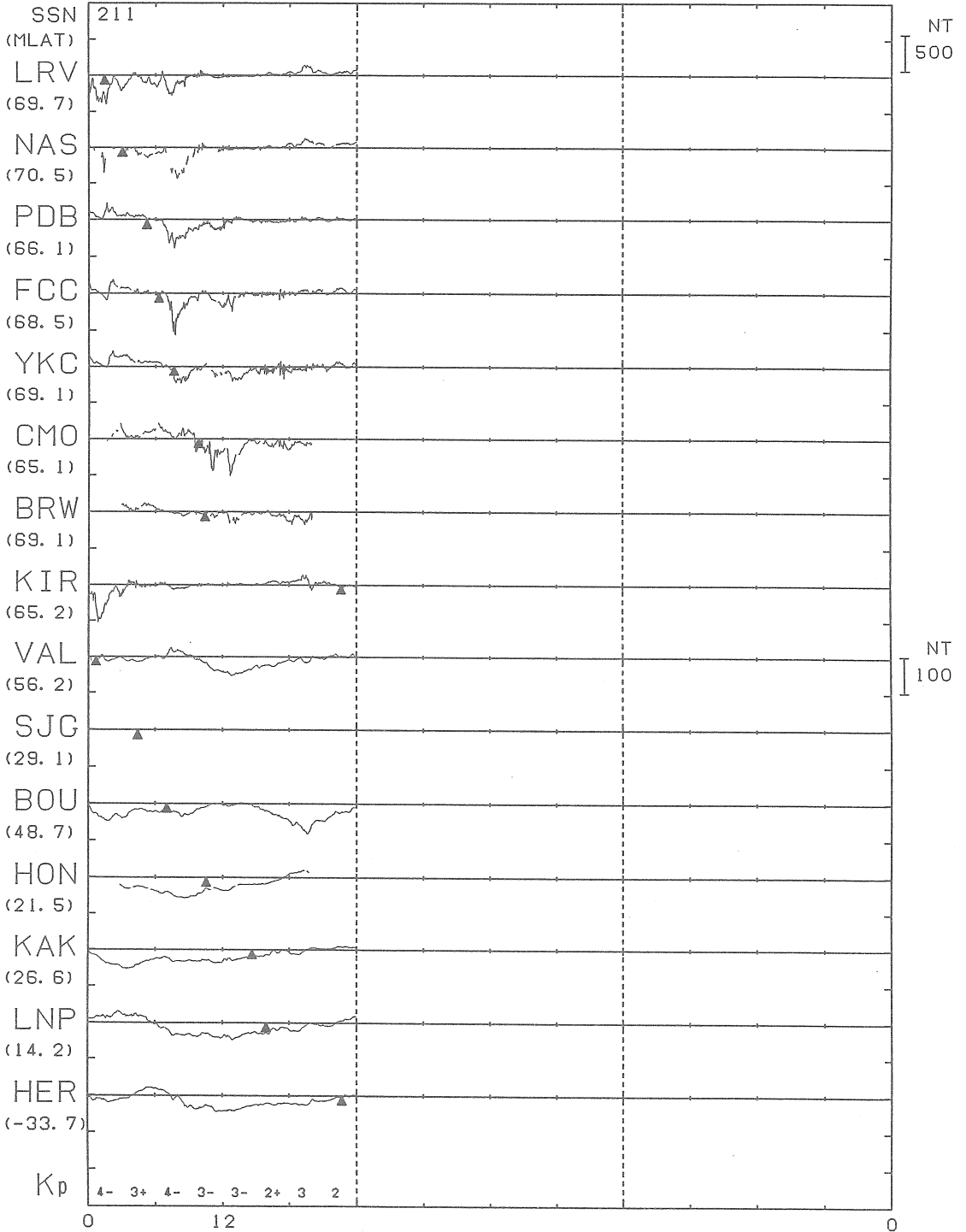
▲ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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1992 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



JAN 31
(DAY 31)

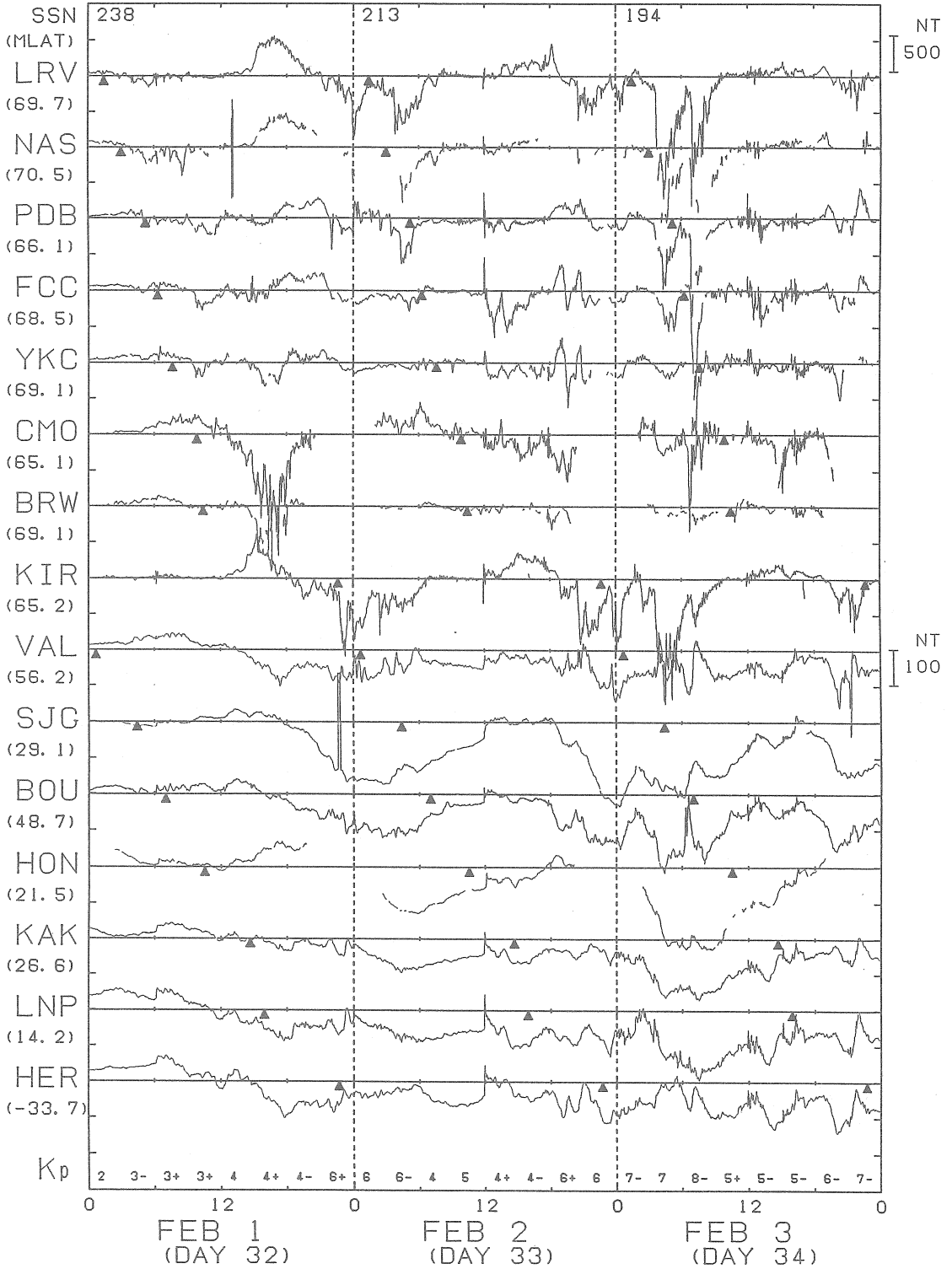
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FEBRUARY 1992

(DAY 032 - 060)

1992 H OR X-COMPONENT

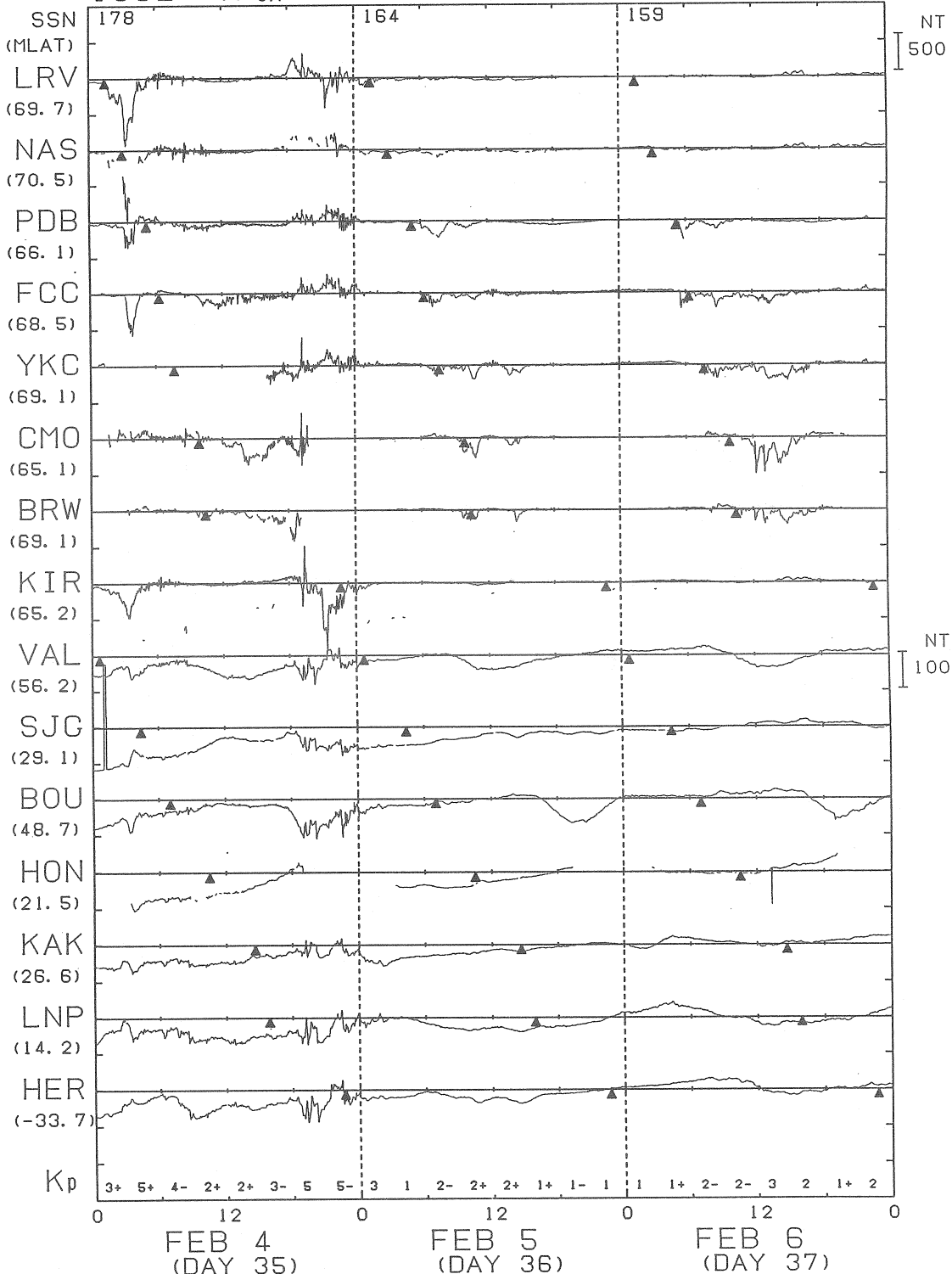
▲ : LOCAL MIDNIGHT



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

1992 H OR X-COMPONENT

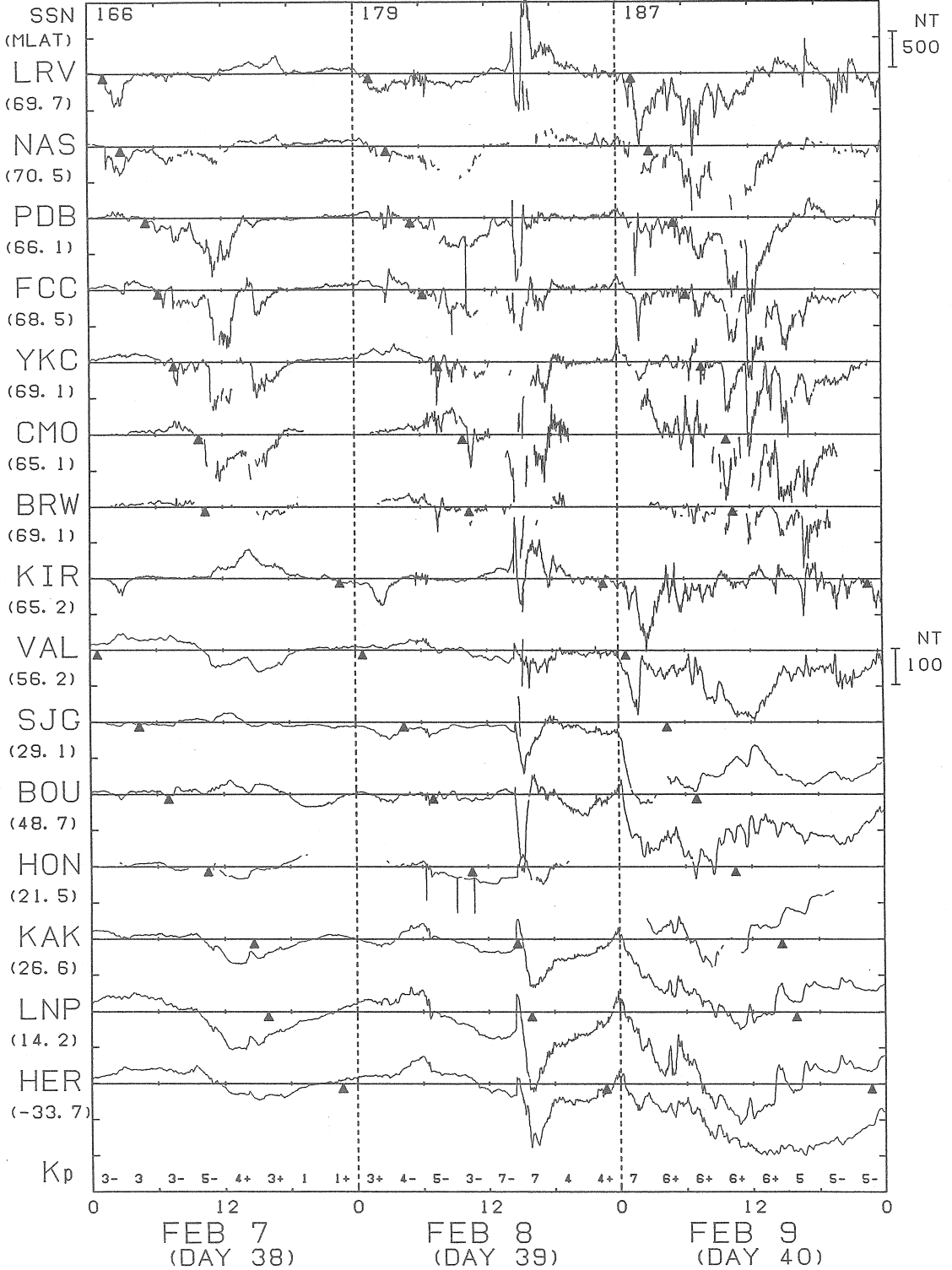
▲ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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1992 H OR X-COMPONENT

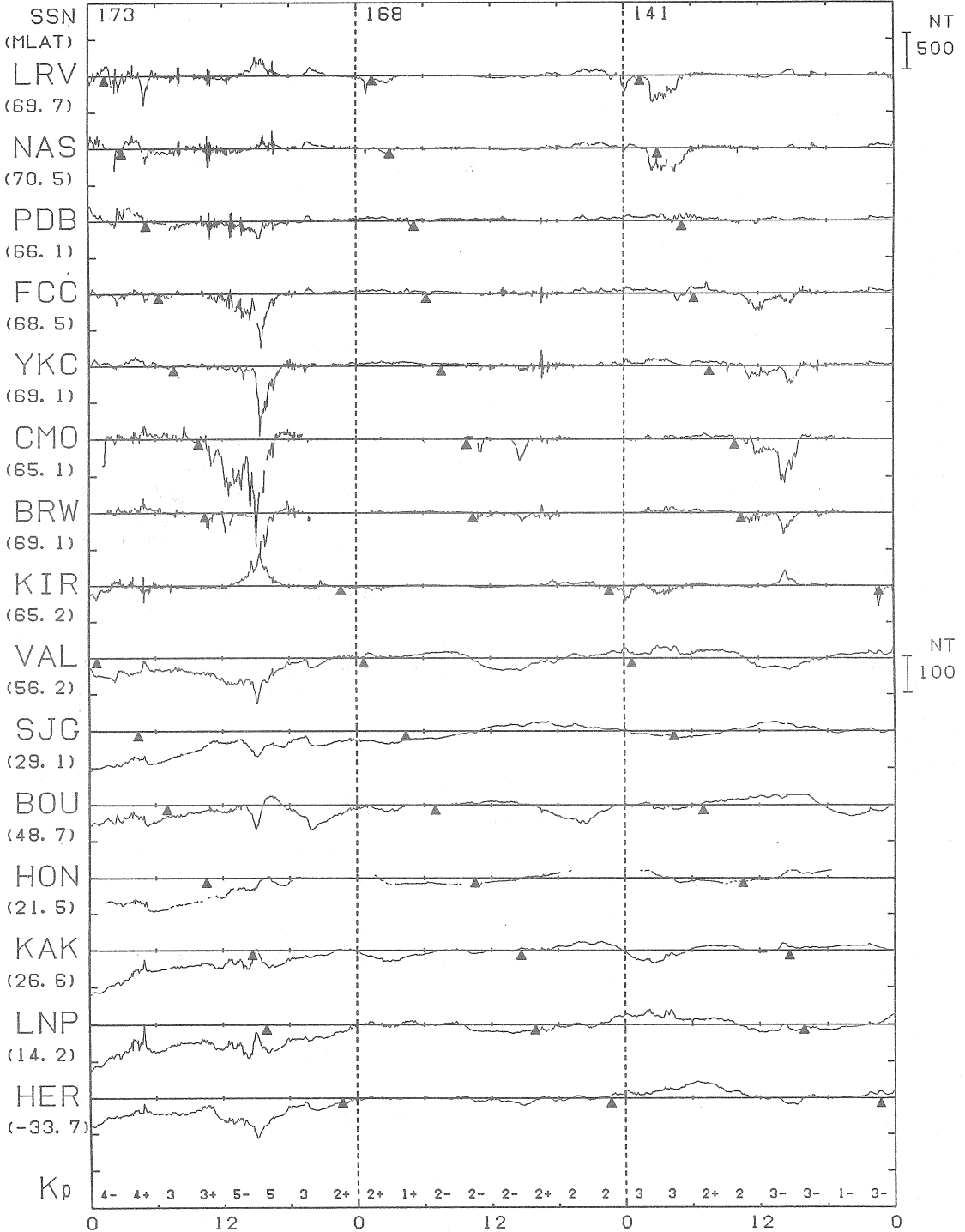
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

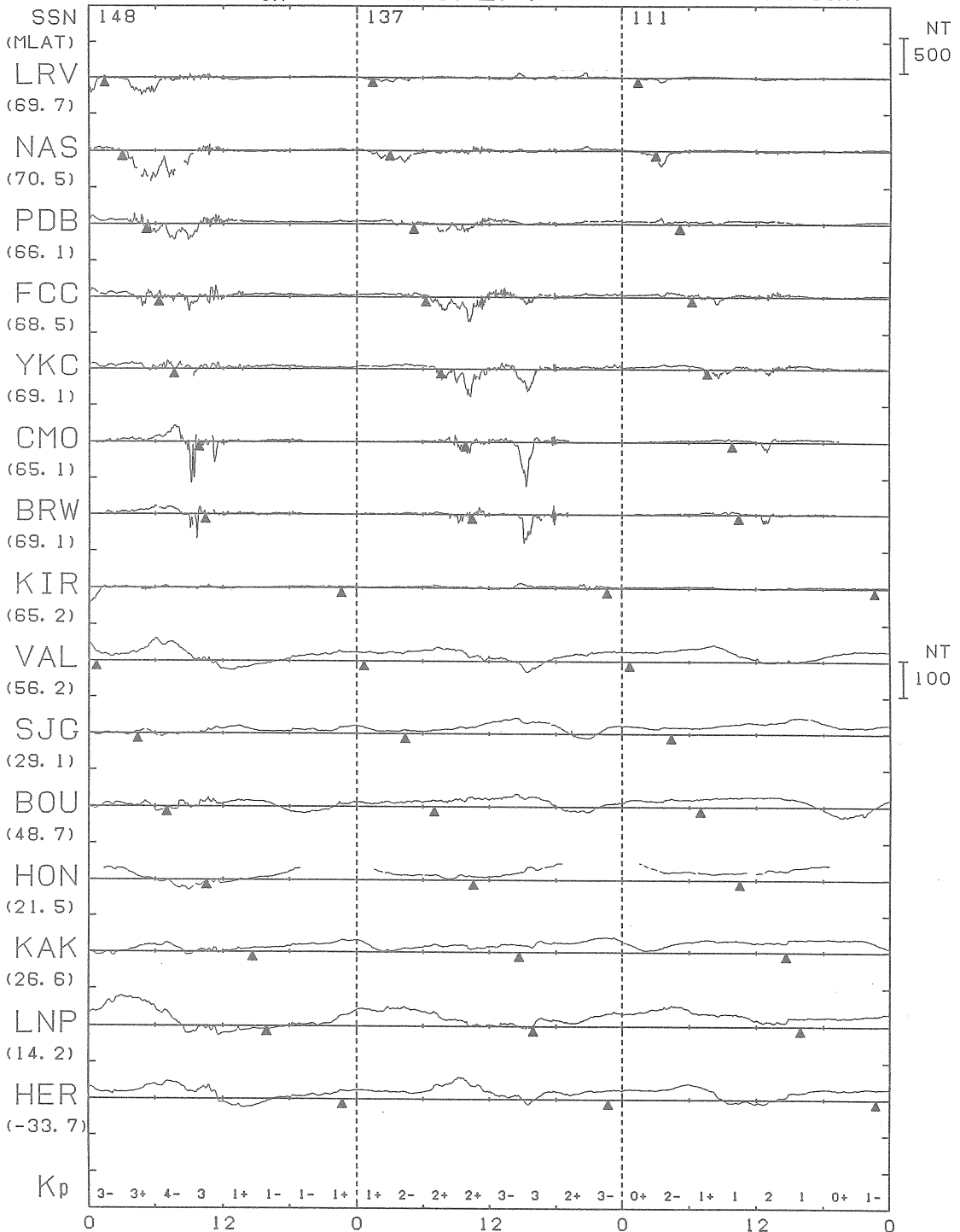
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

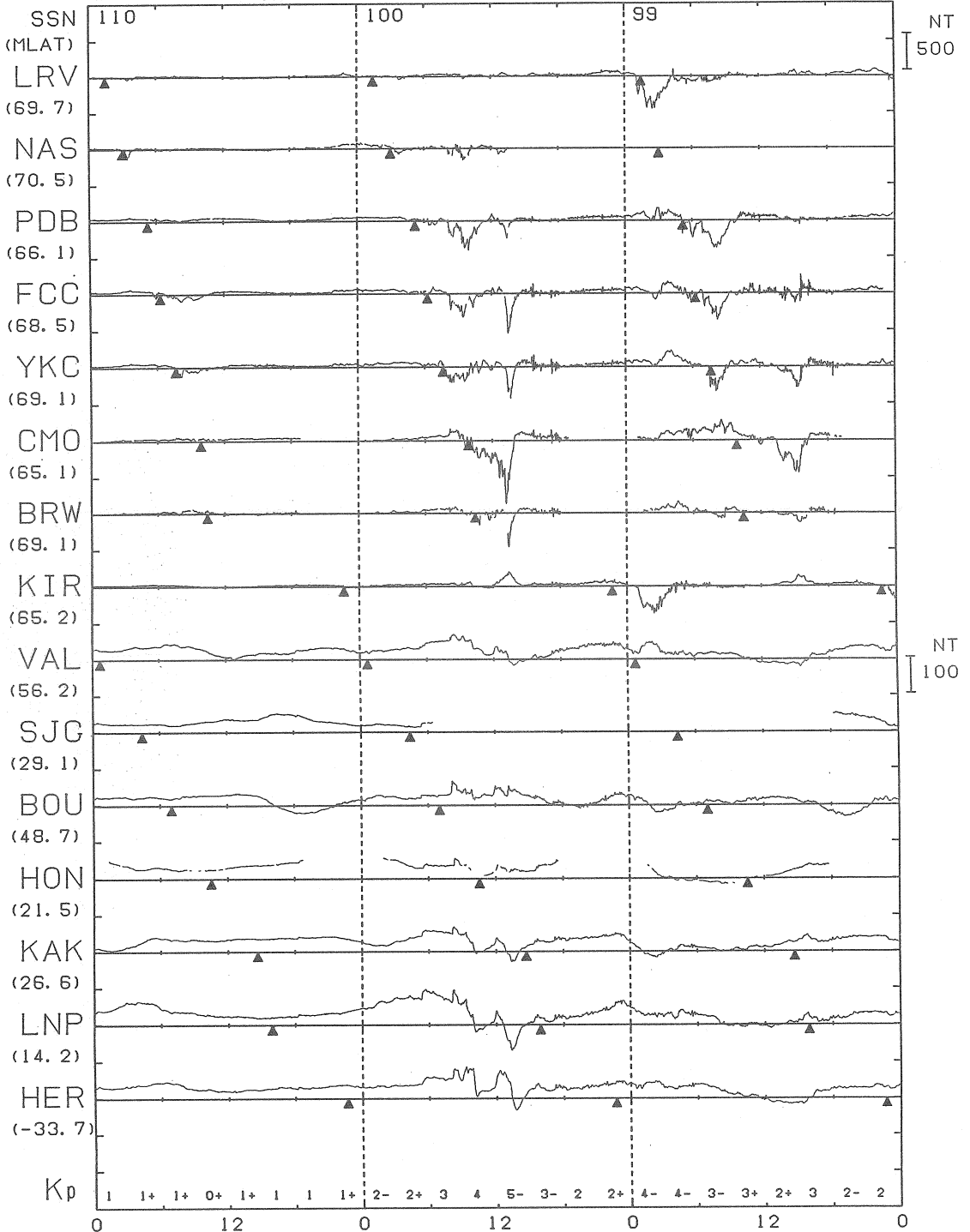
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



FEB 16
(DAY 47)

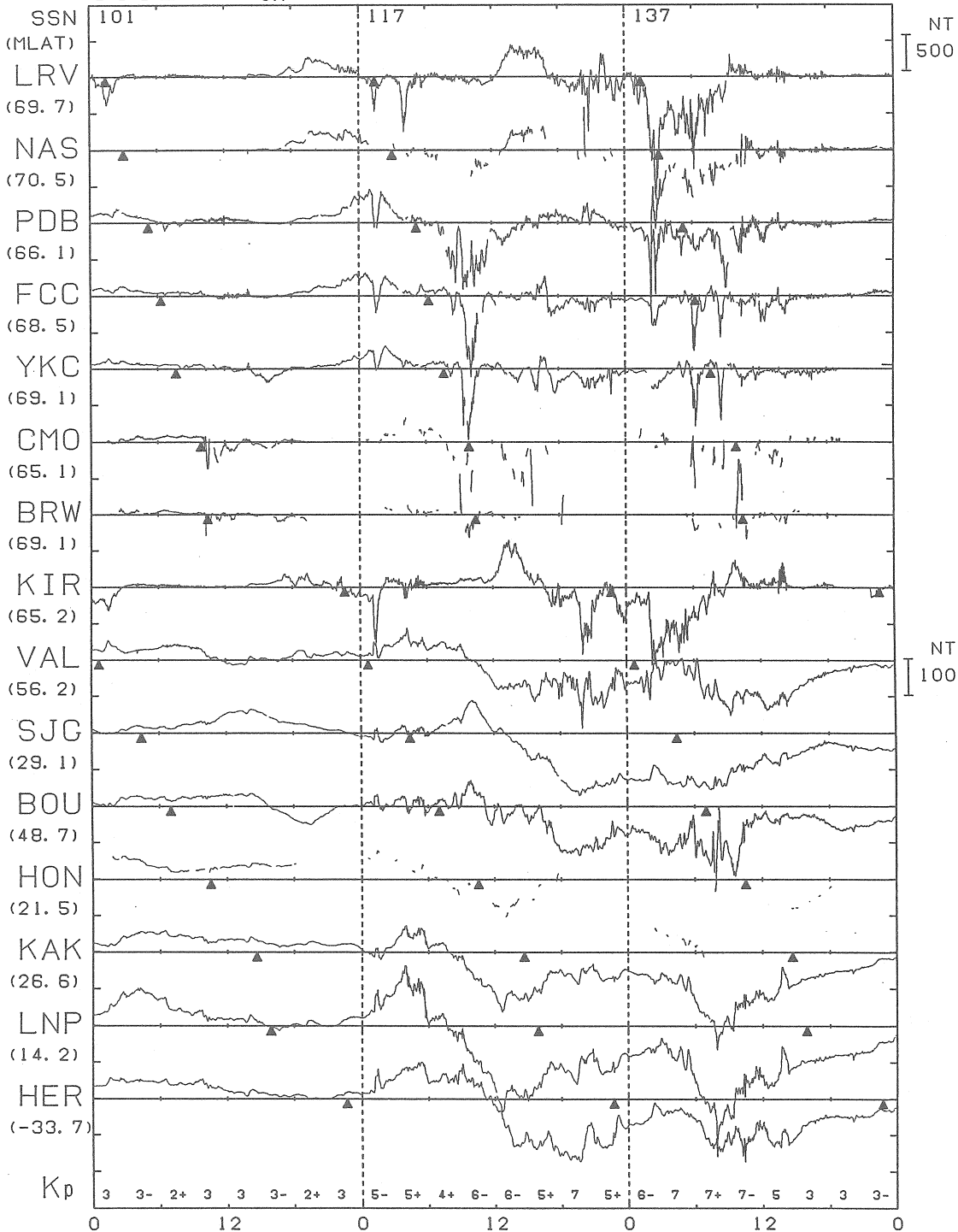
FEB 17
(DAY 48)

FEB 18
(DAY 49)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
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1992 H OR X-COMPONENT

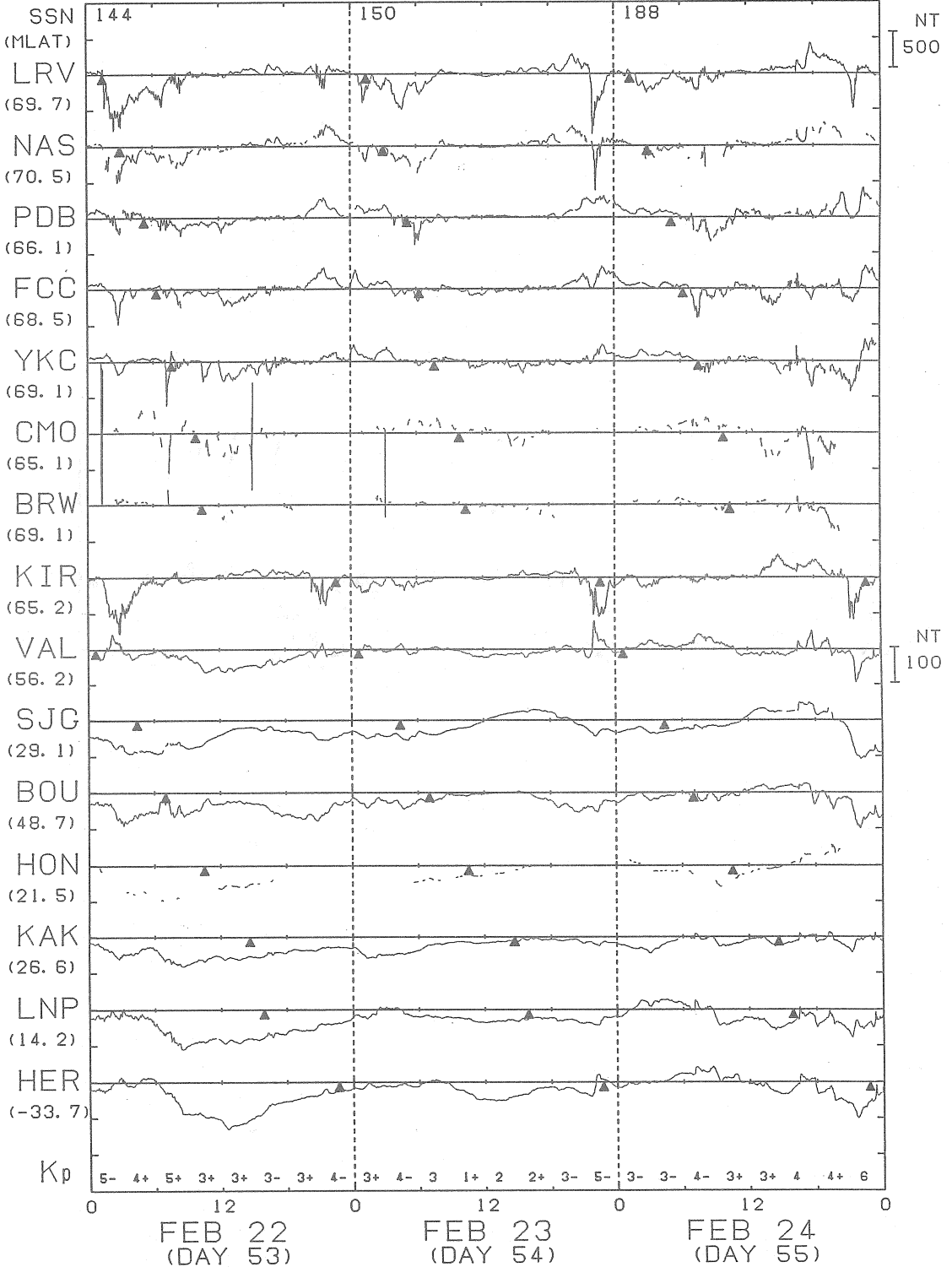
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

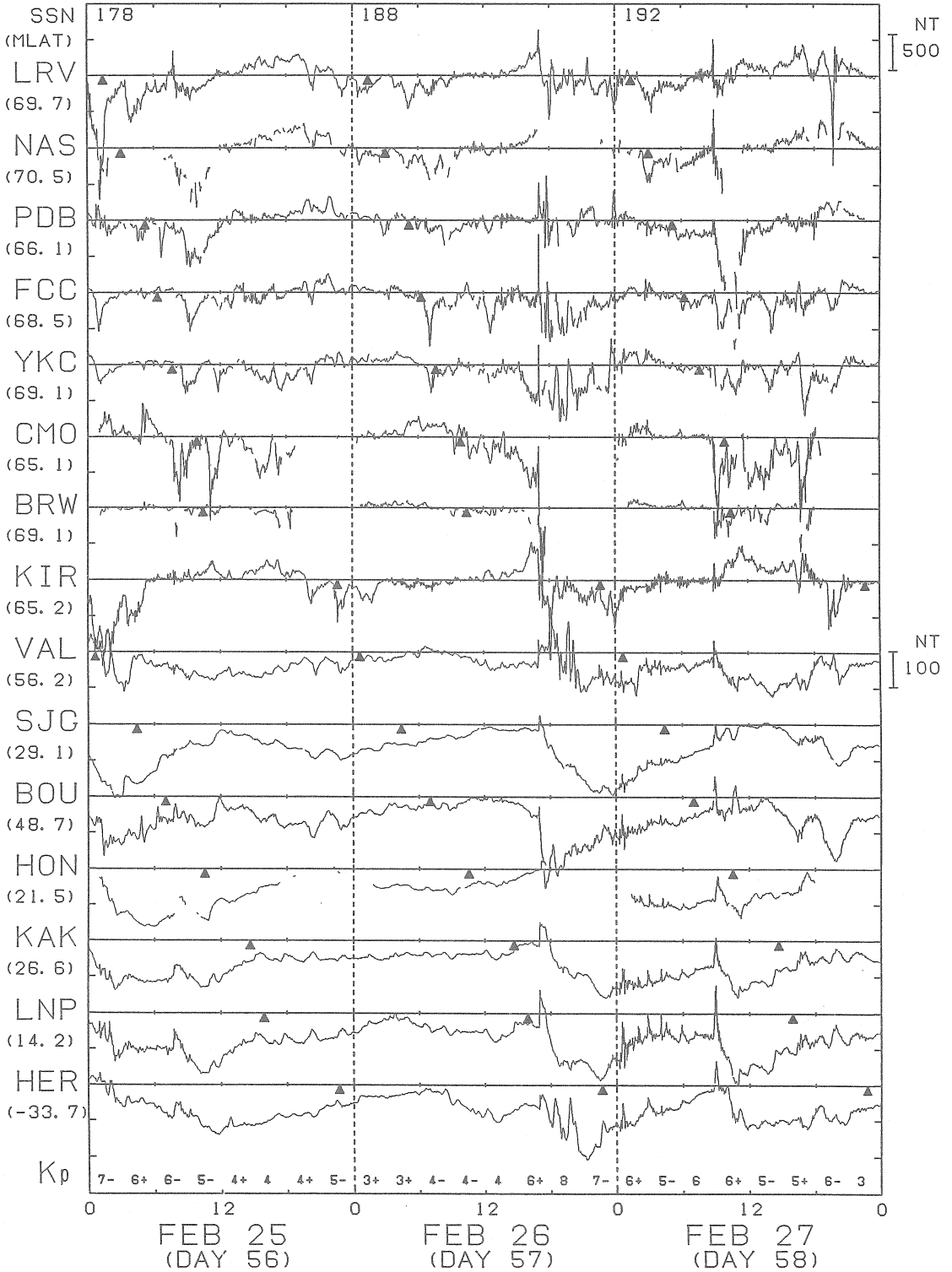
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

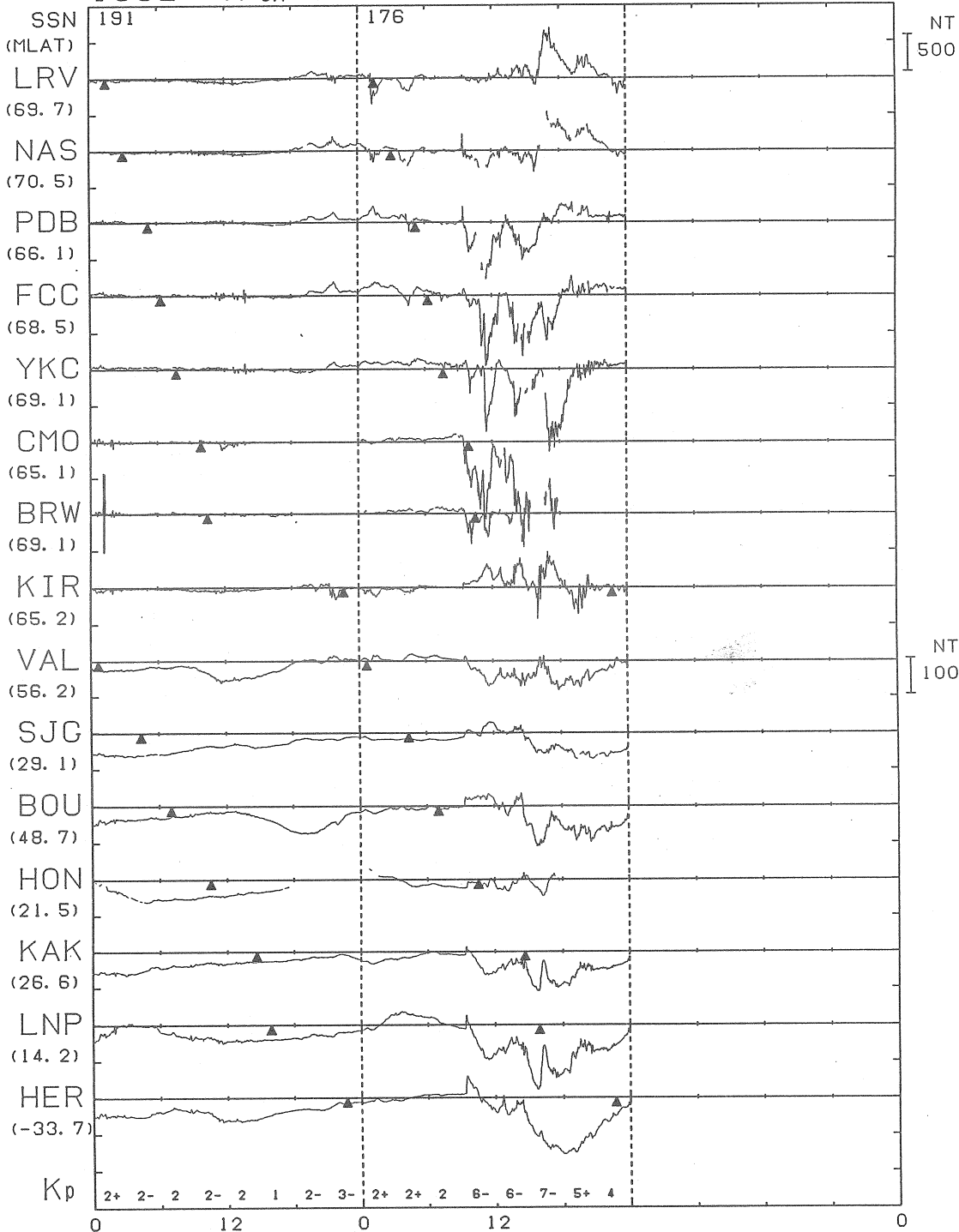
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



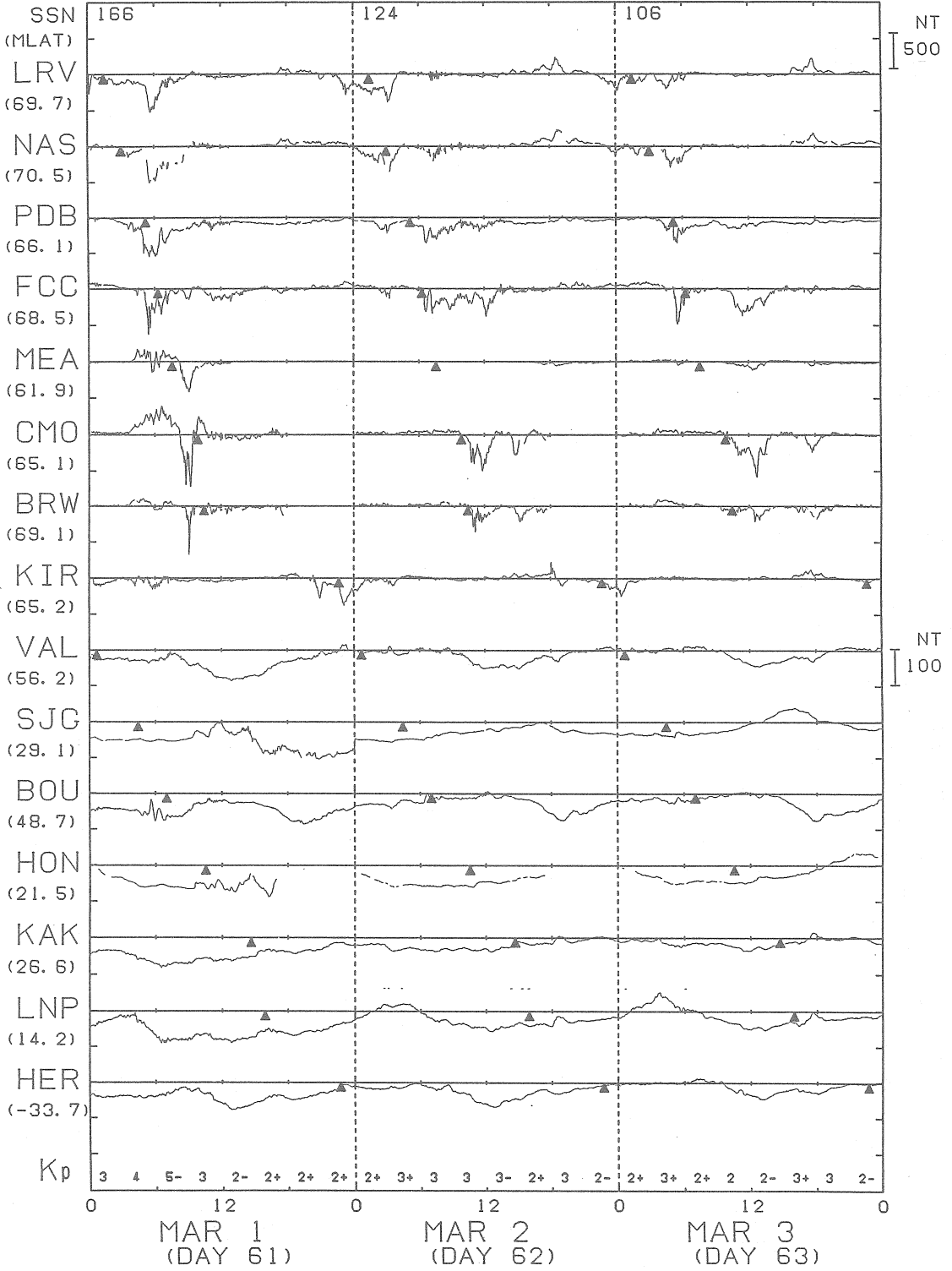
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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MARCH 1992

(DAY 061 - 091)

1992 H OR X-COMPONENT

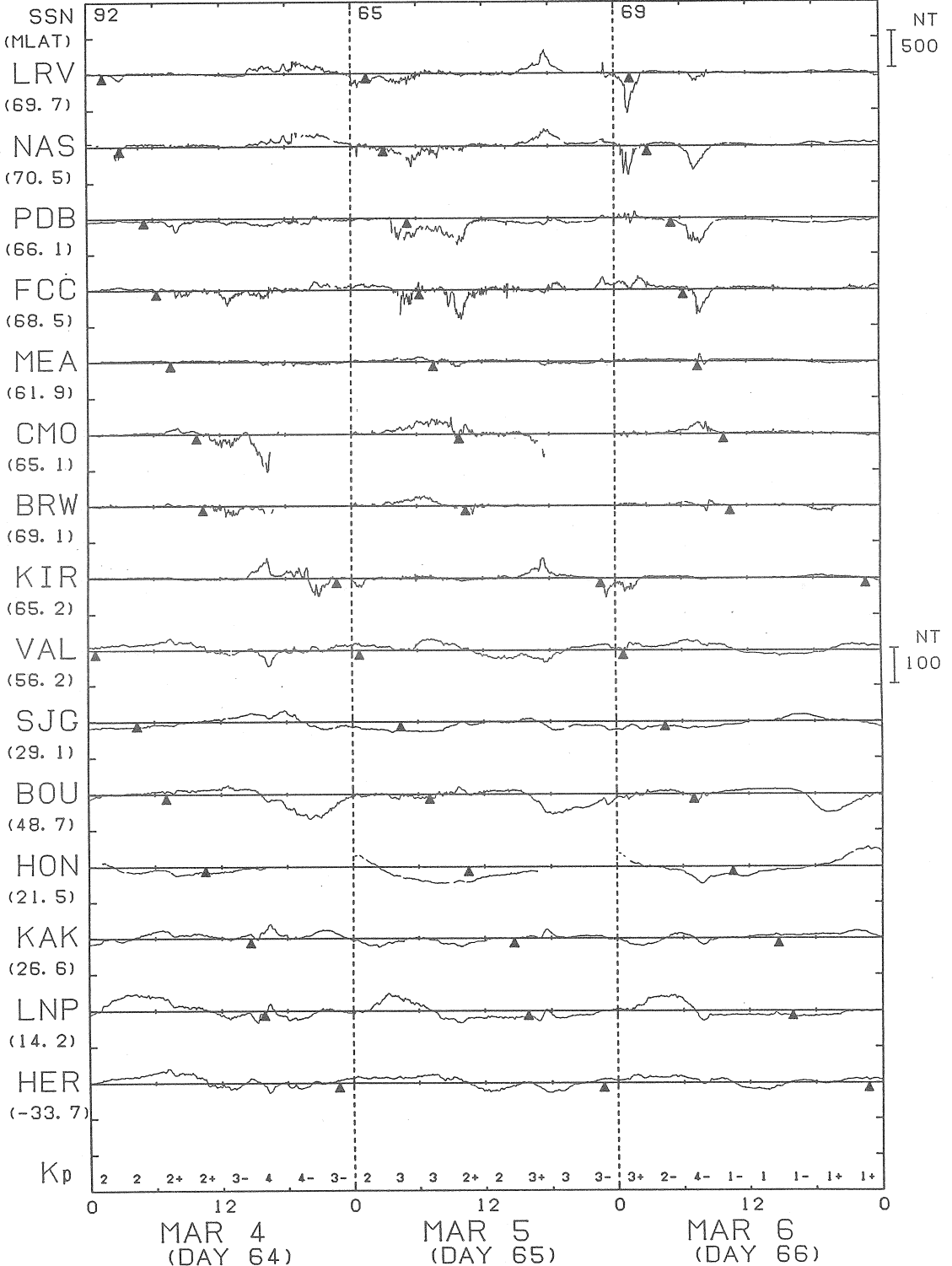
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

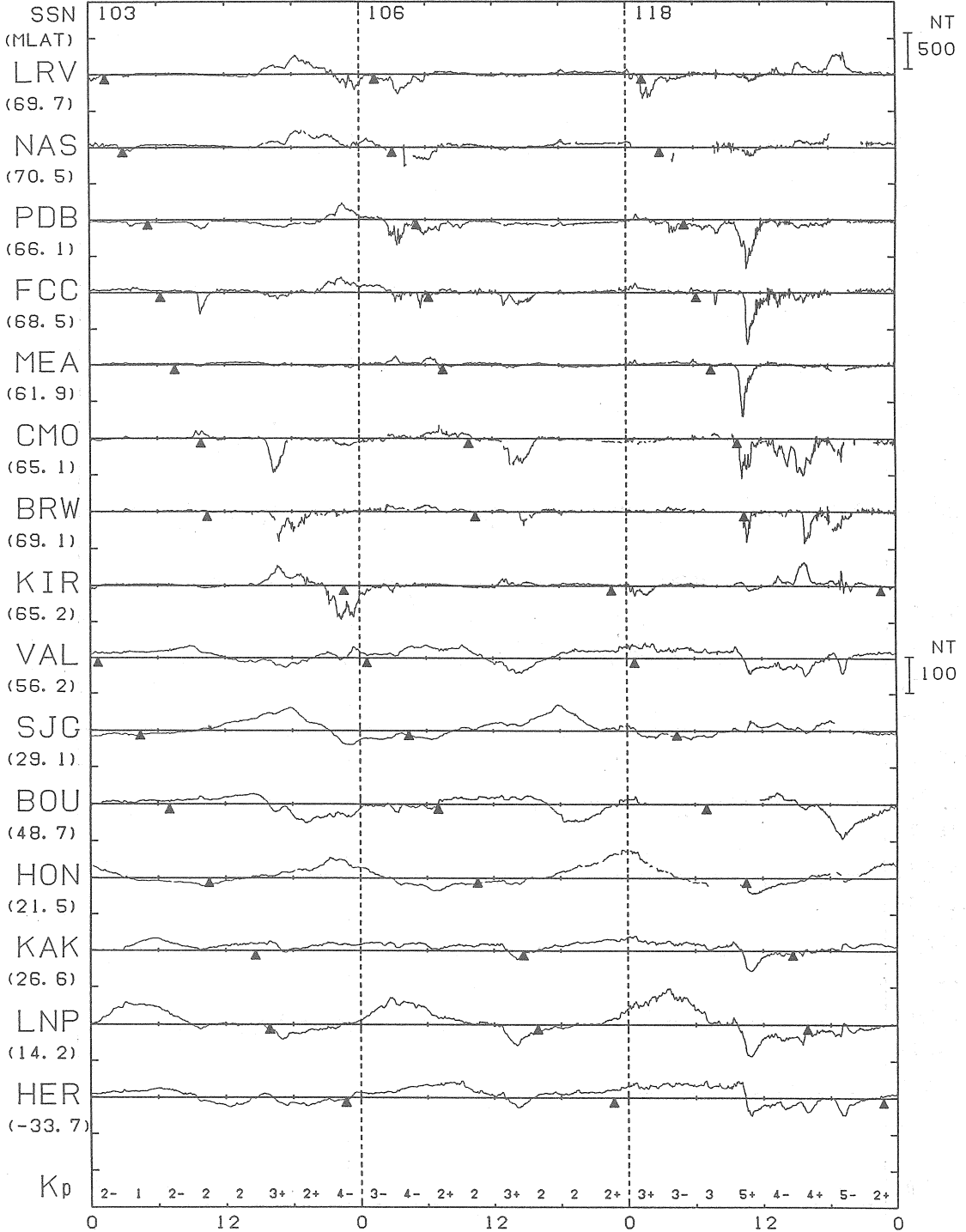
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

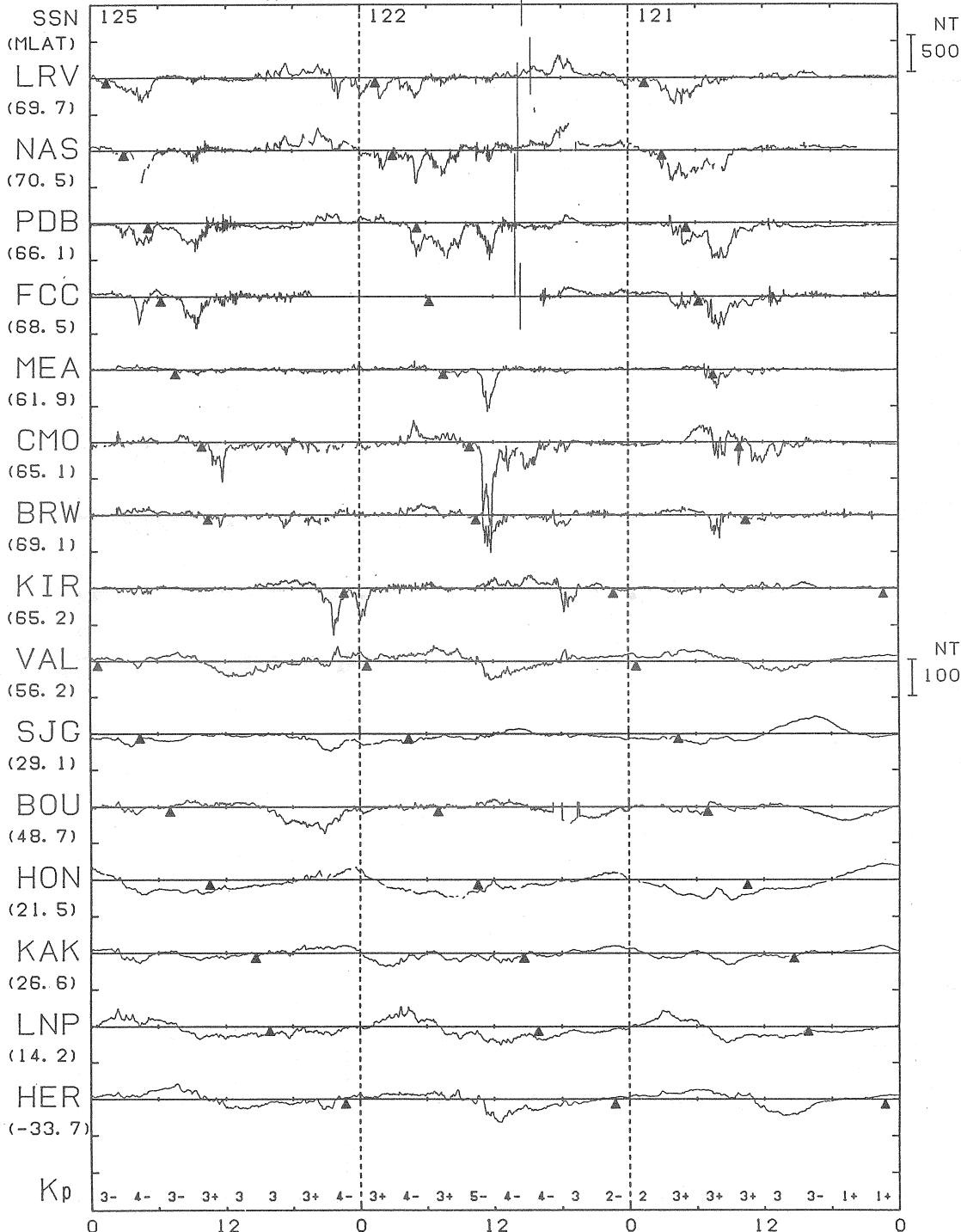
▲ : LOCAL MIDNIGHT



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1992 H_{0R} X-COMPONENT

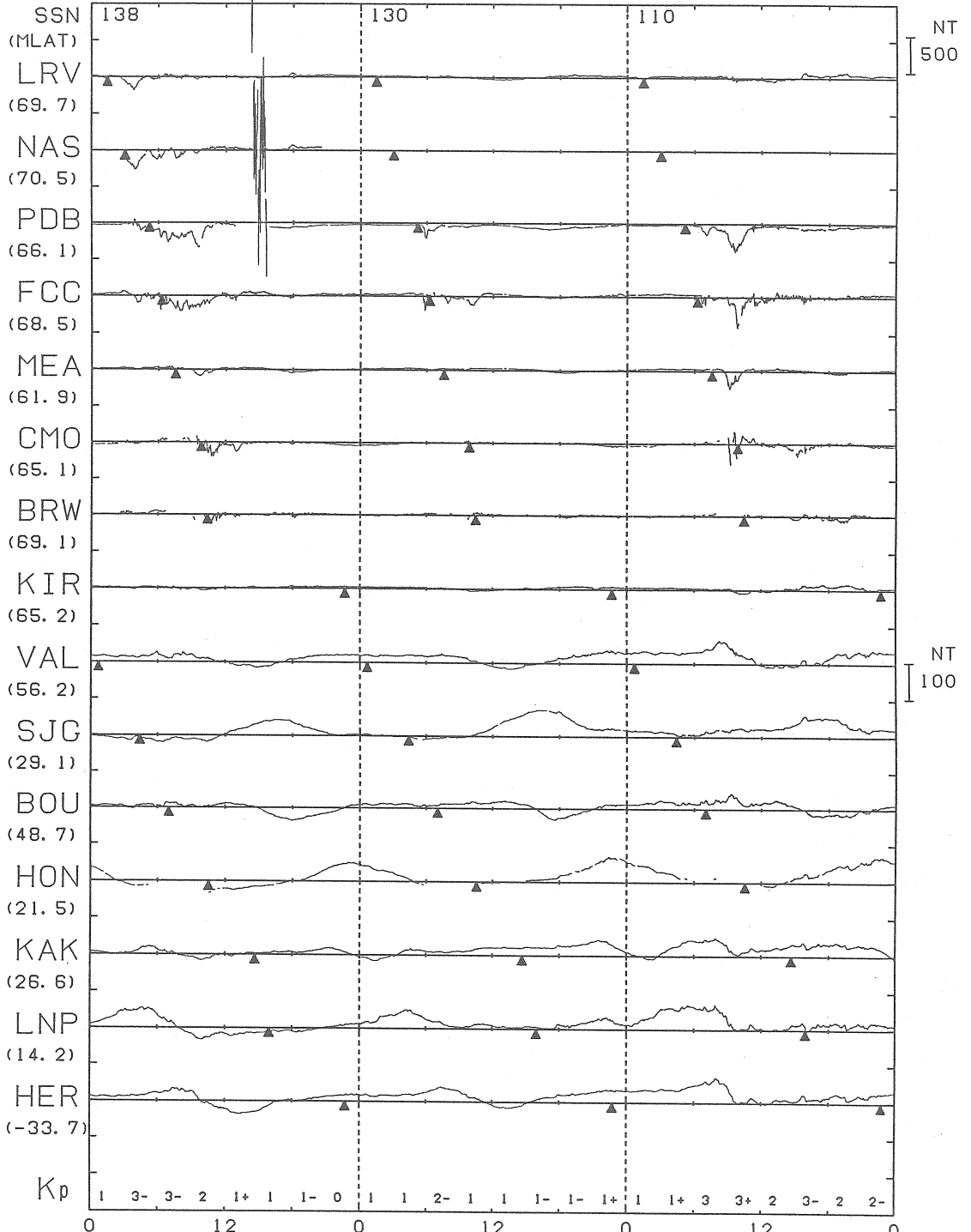
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

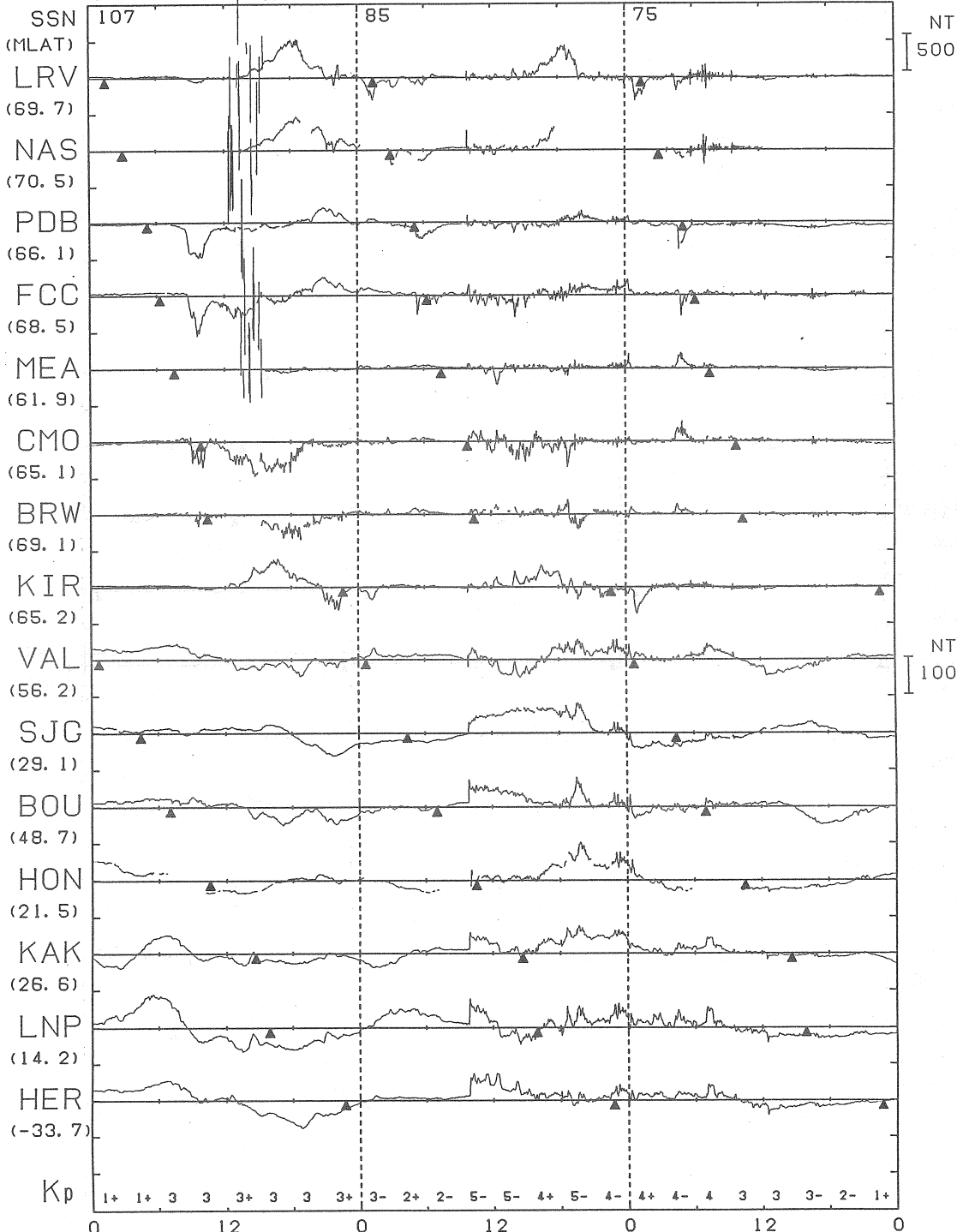
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

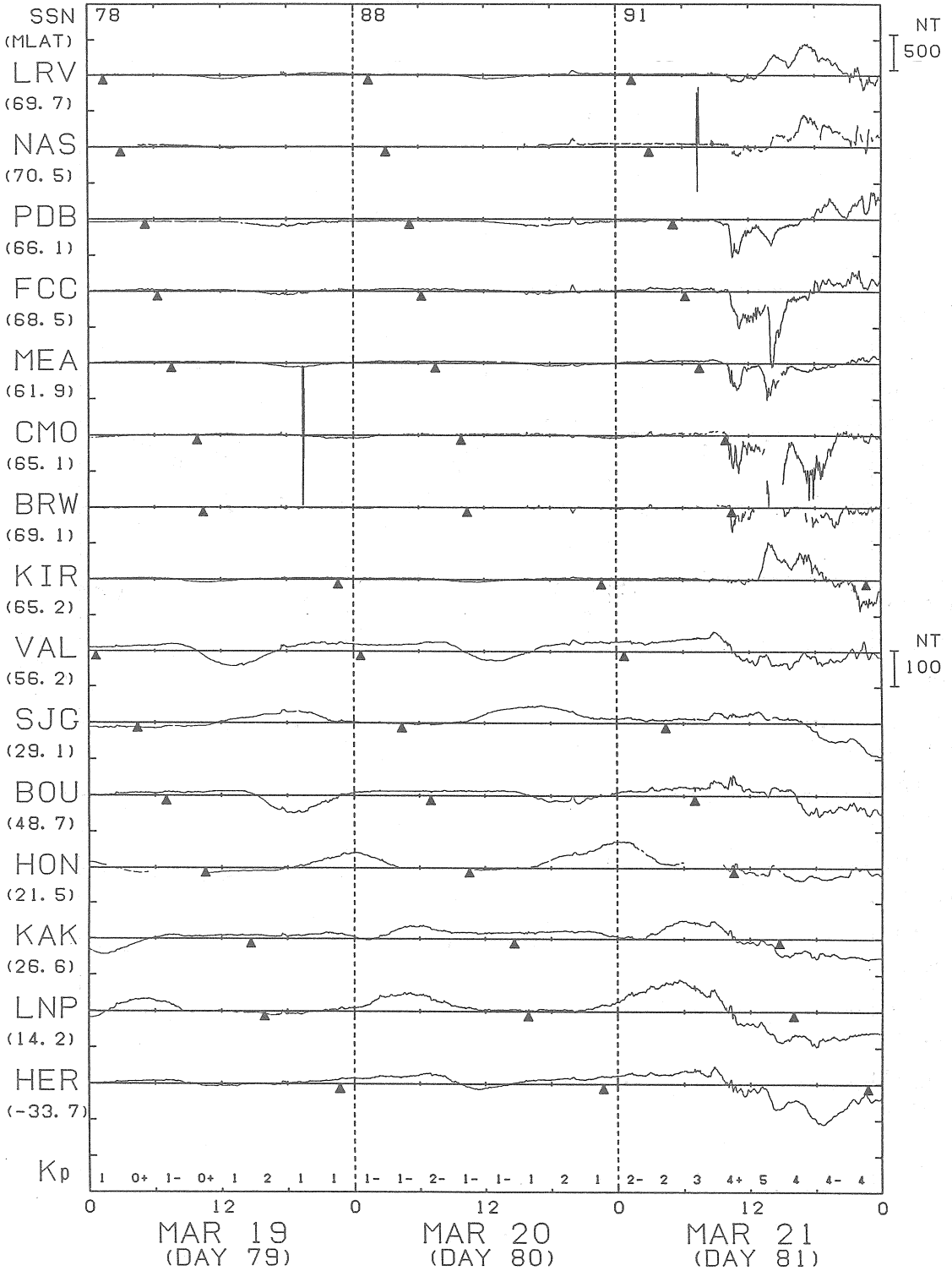
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

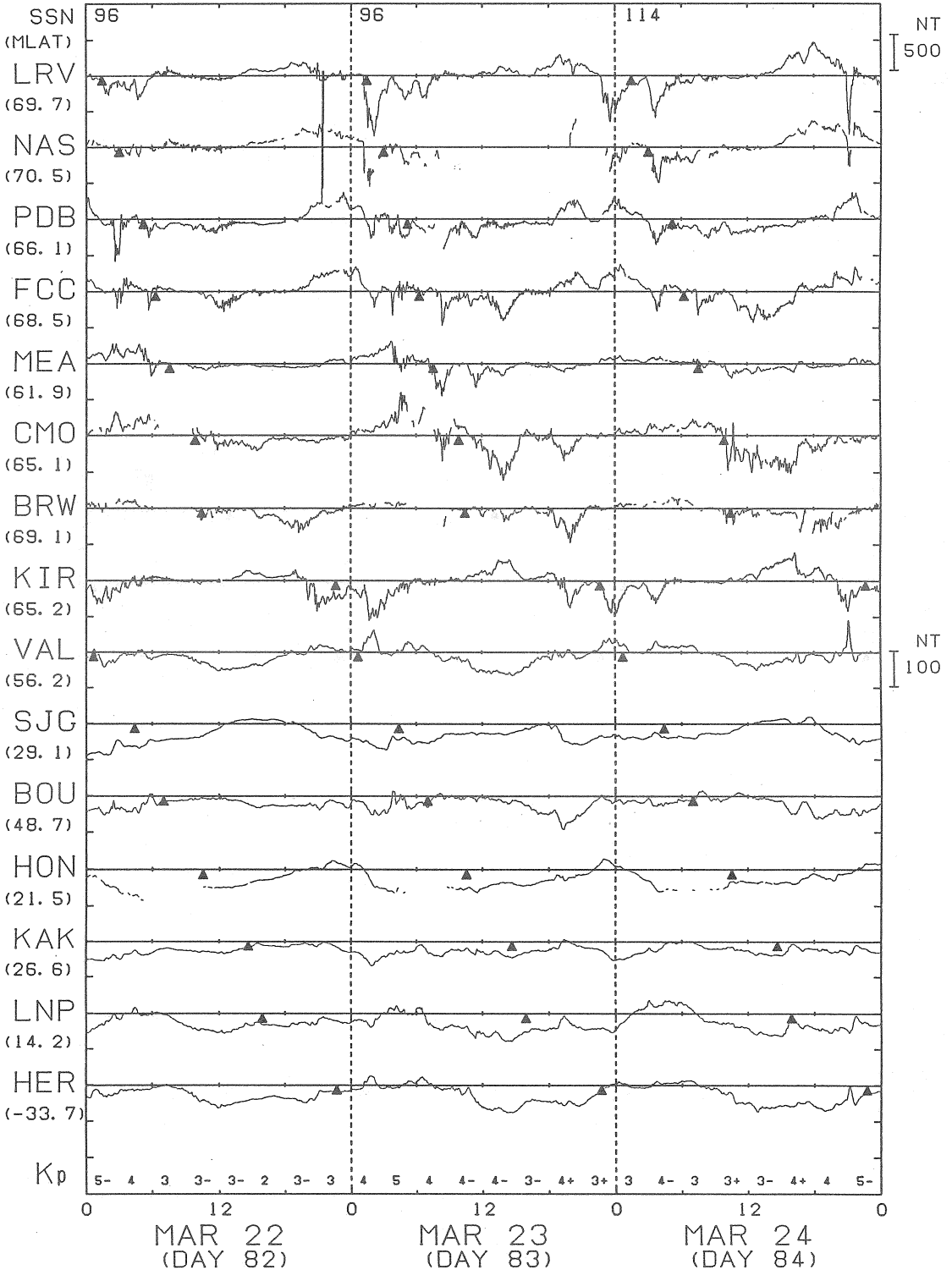
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

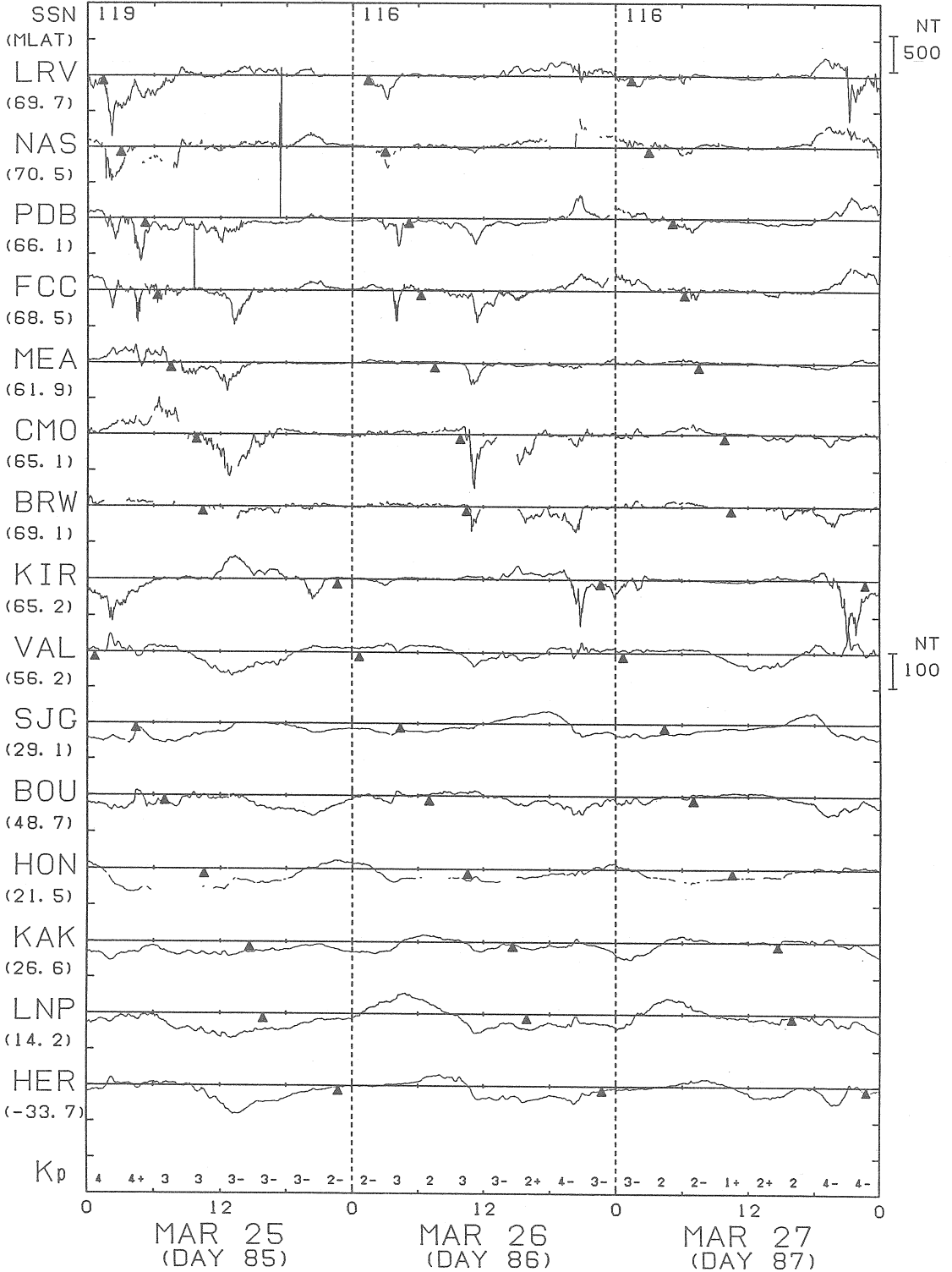
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

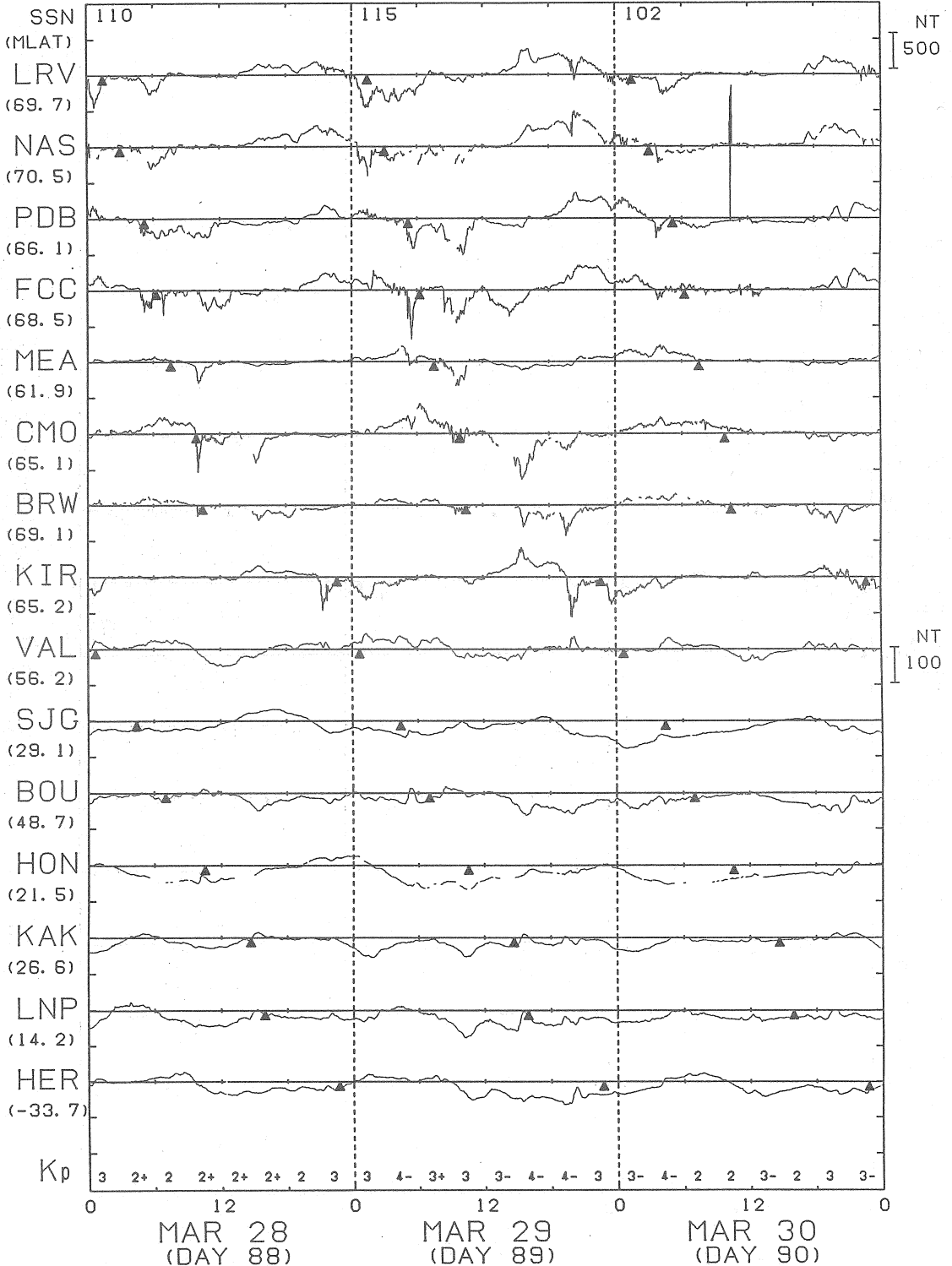
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

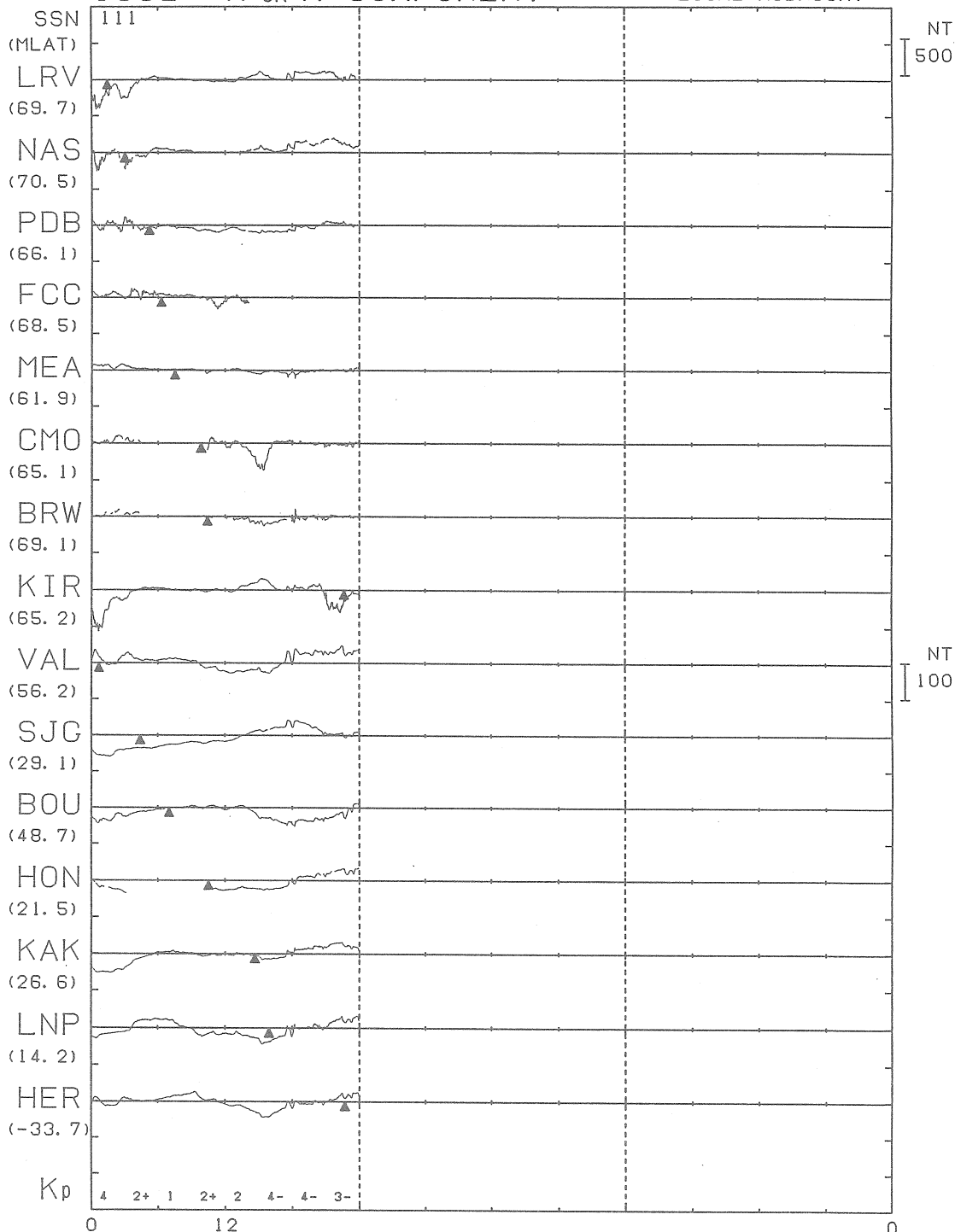
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAR 31
(DAY 91)

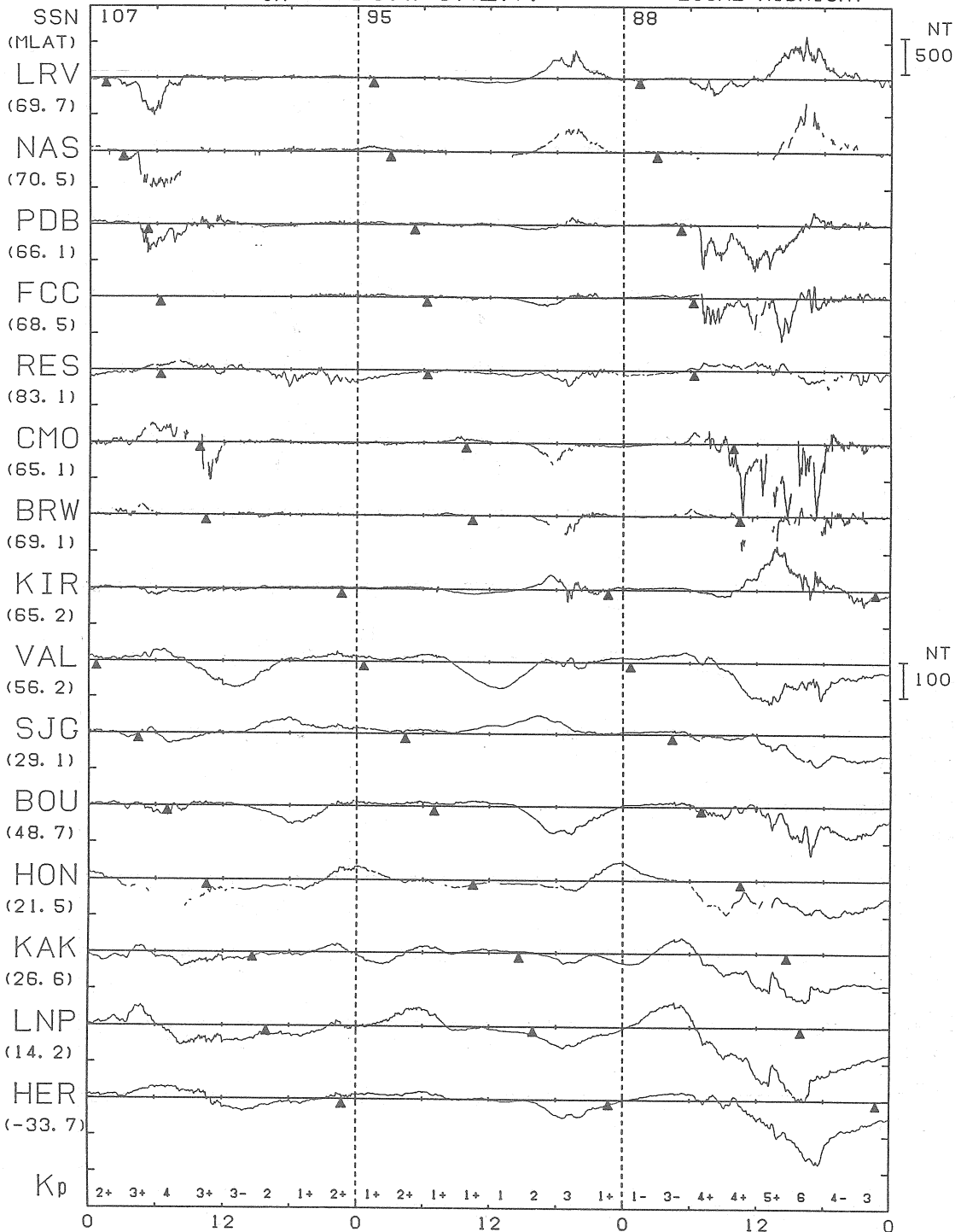
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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APRIL 1992

(DAY 092 - 121)

1992 H OR X-COMPONENT

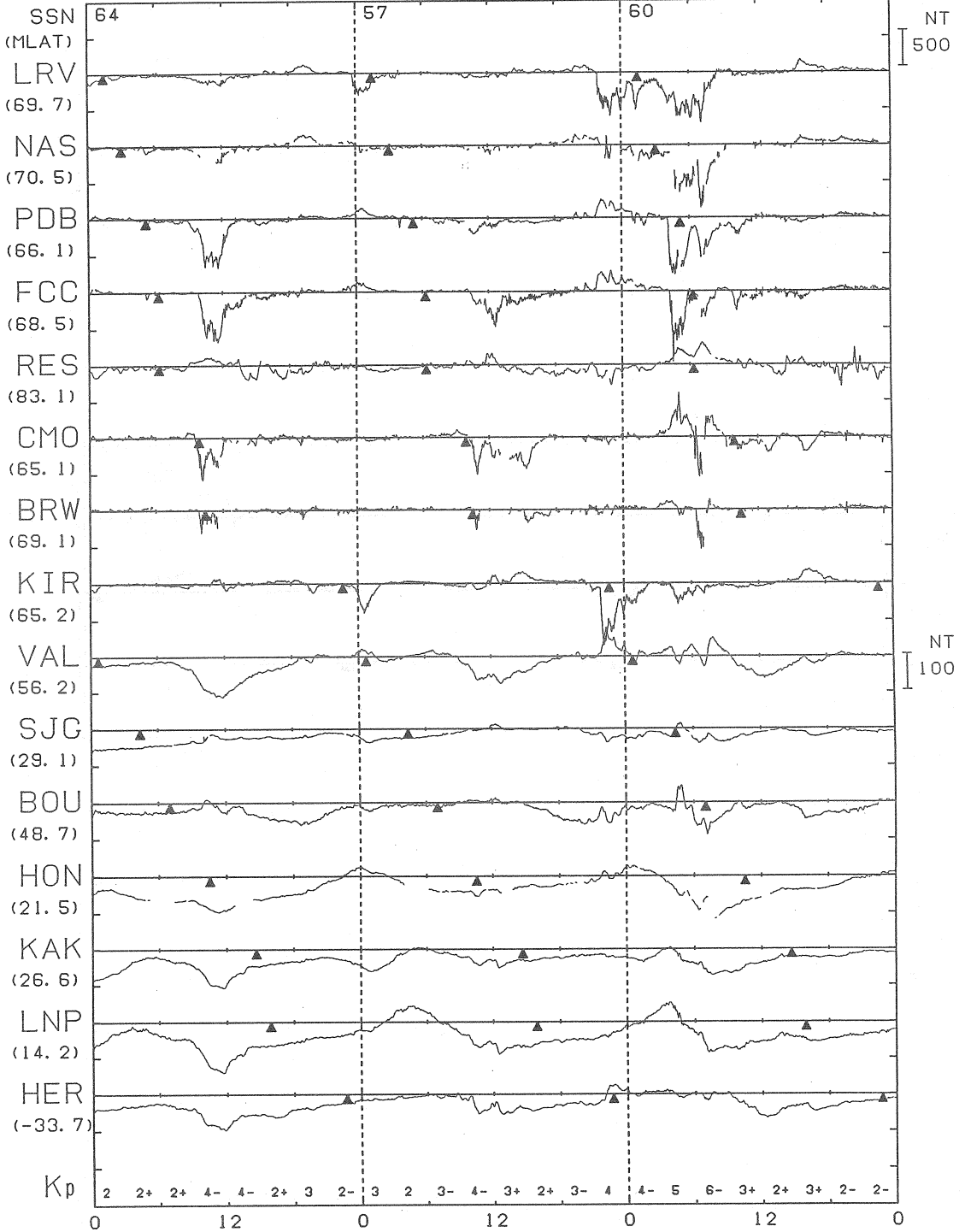
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

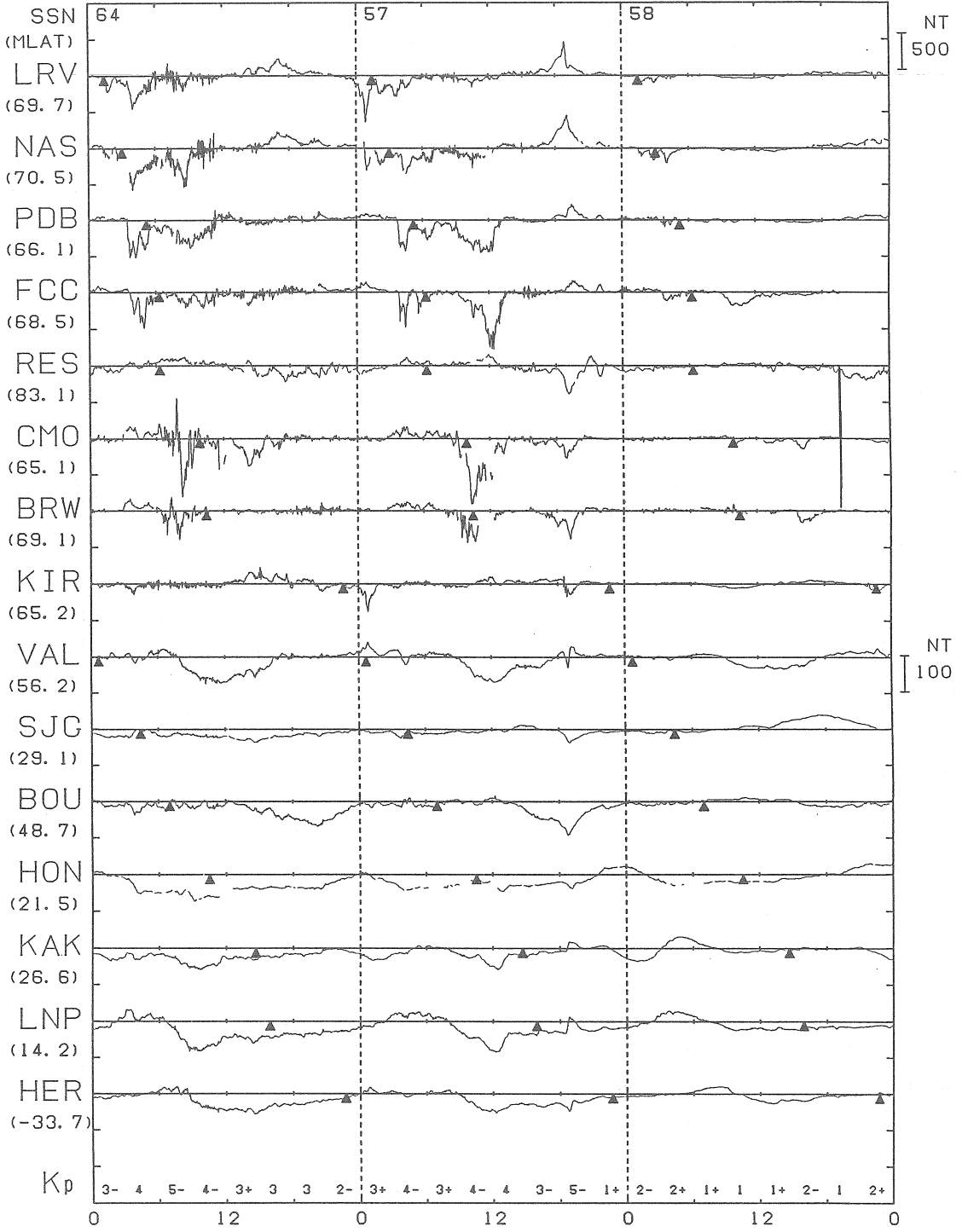
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

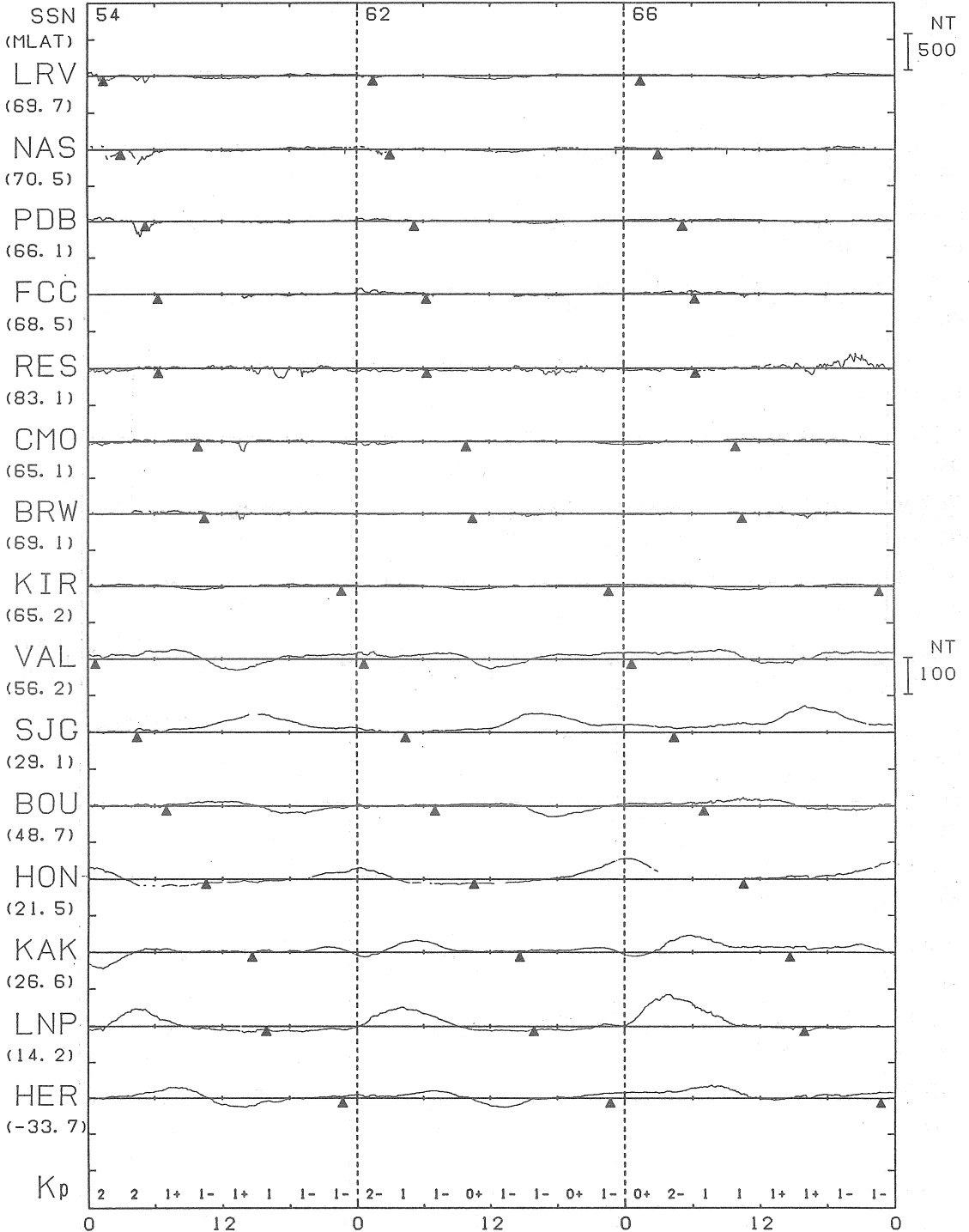
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

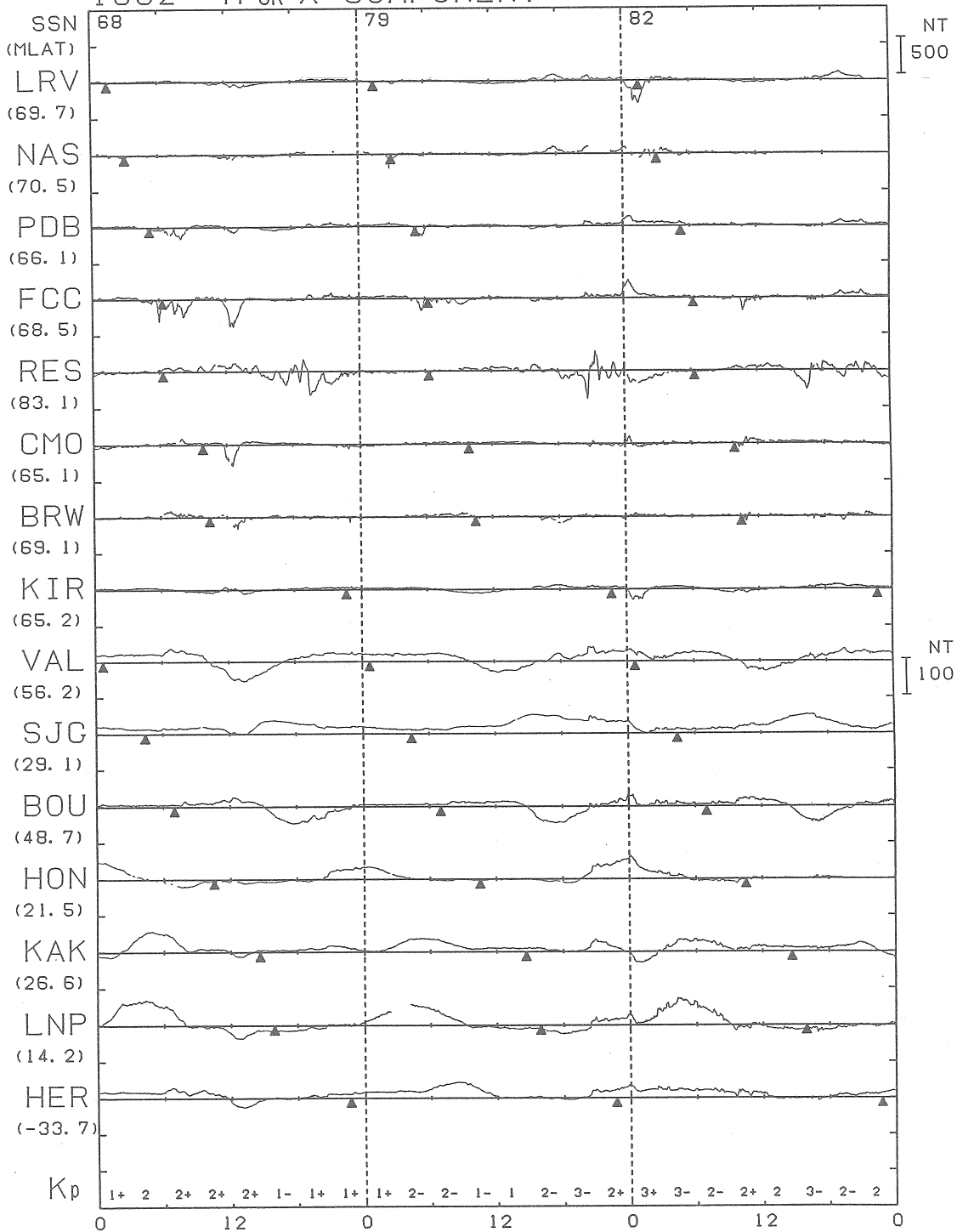
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

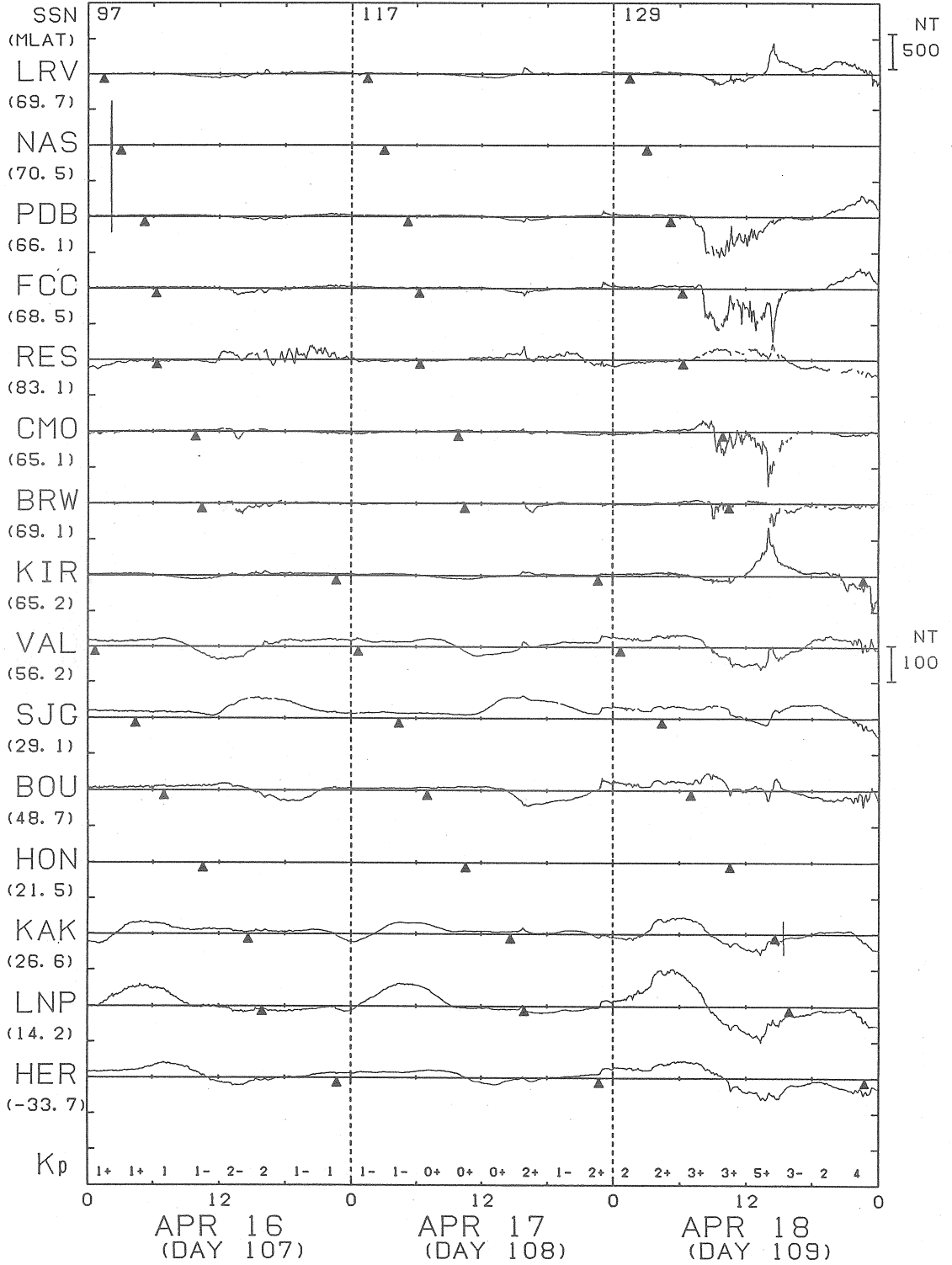
▲ : LOCAL MIDNIGHT



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1992 H_{OR} X-COMPONENT

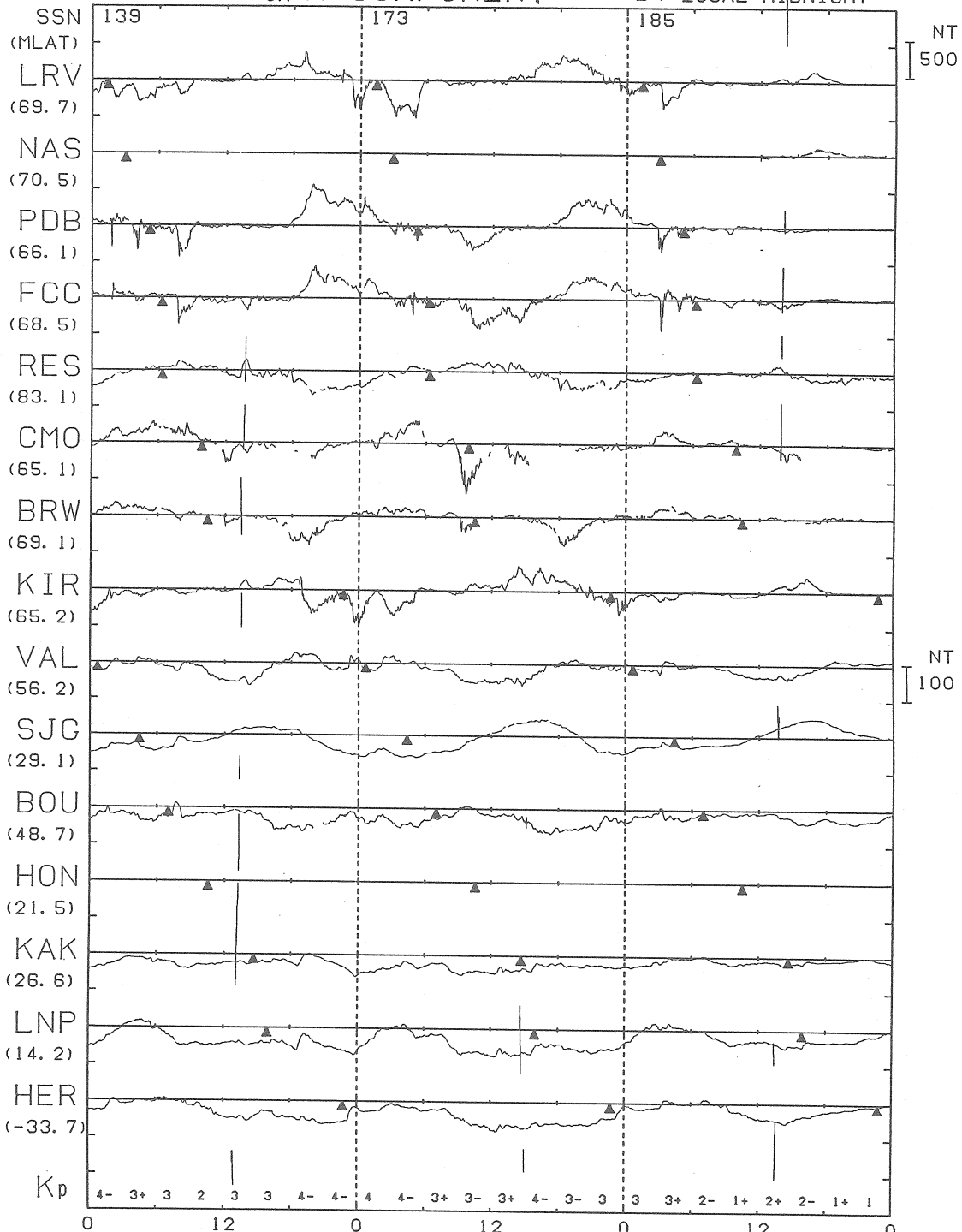
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

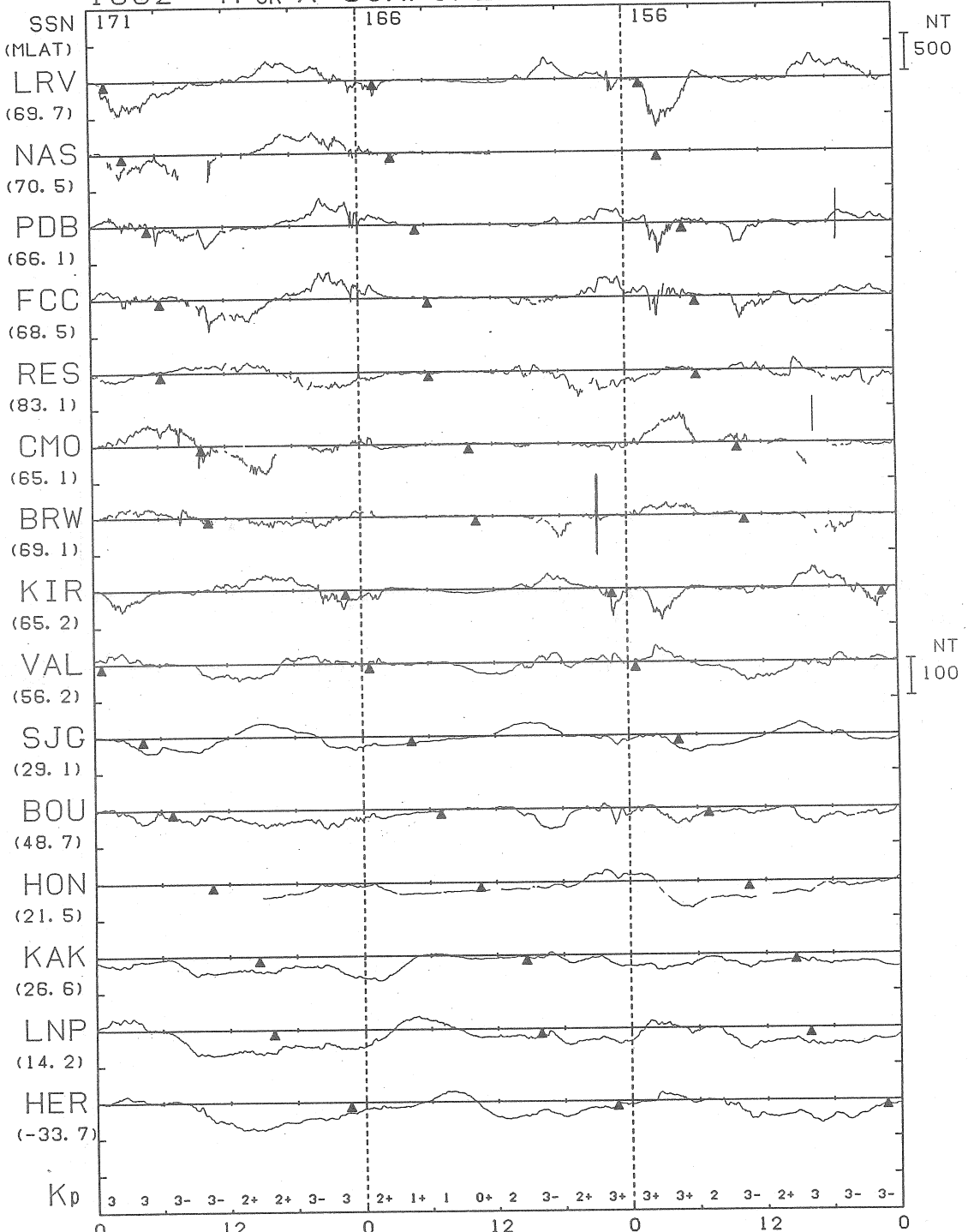
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

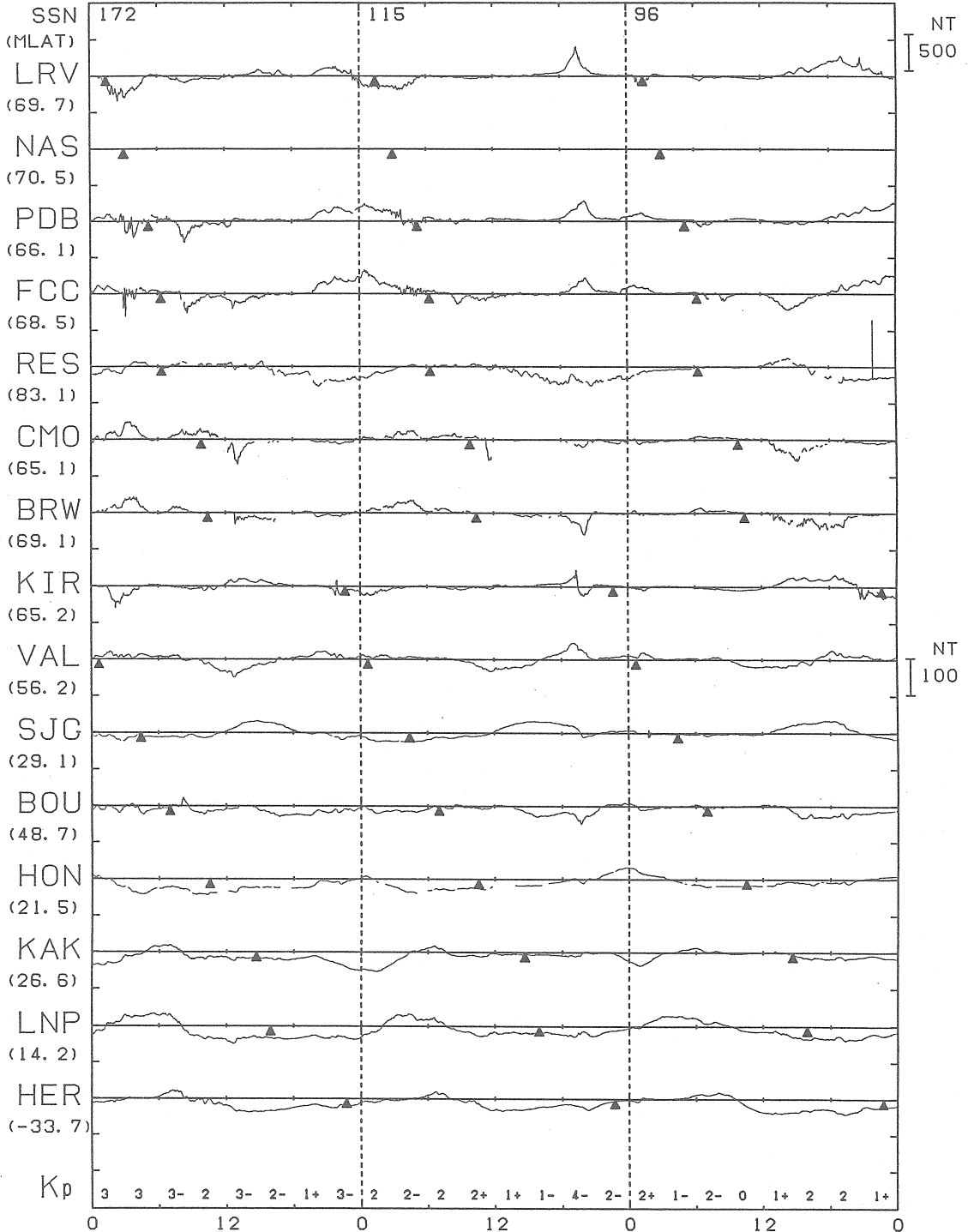
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



APR 25
(DAY 116)

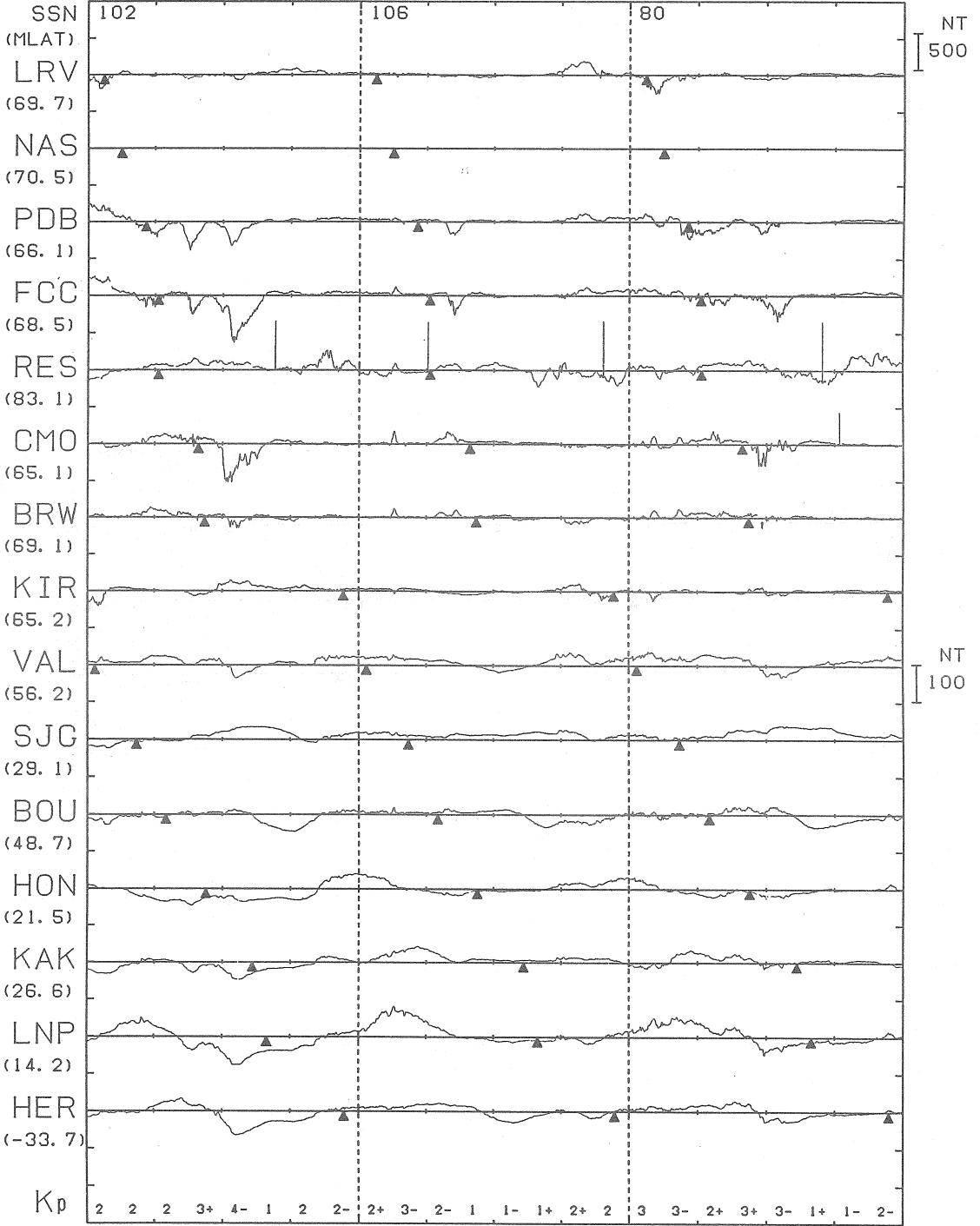
APR 26
(DAY 117)

APR 27
(DAY 118)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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1992 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



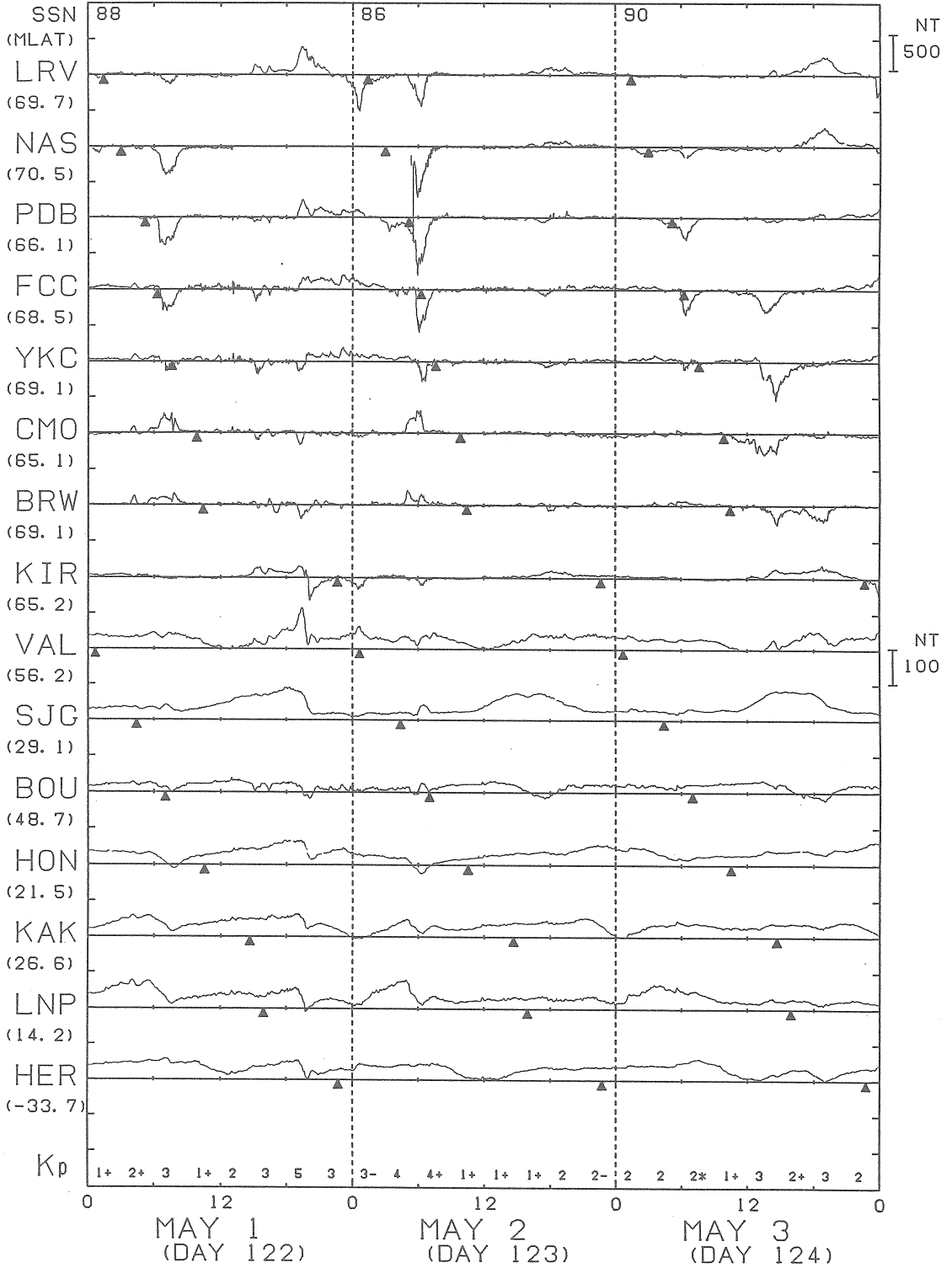
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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MAY 1992

(DAY 122 - 152)

1992 H OR X-COMPONENT

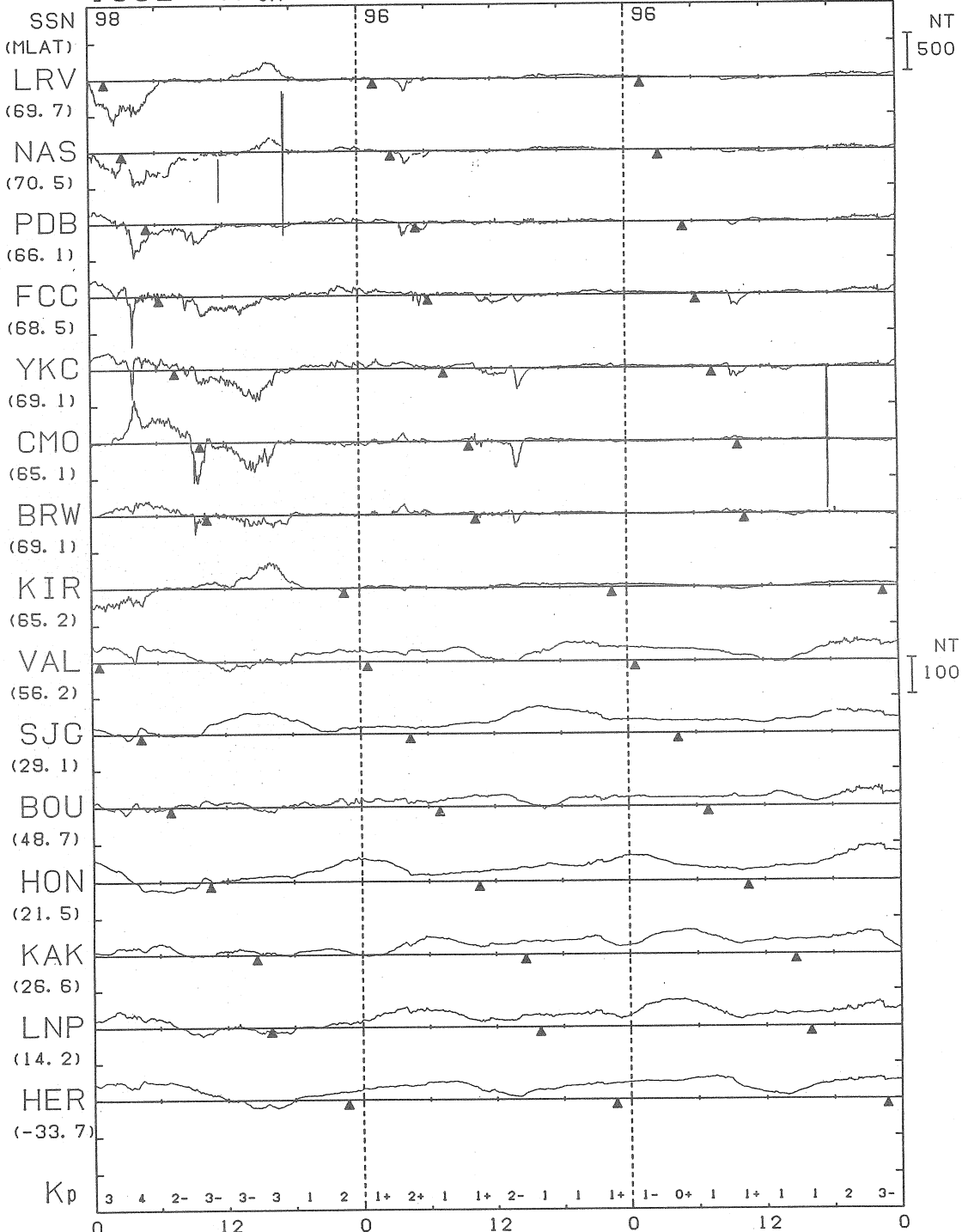
▲ : LOCAL MIDNIGHT



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

1992 H OR X-COMPONENT

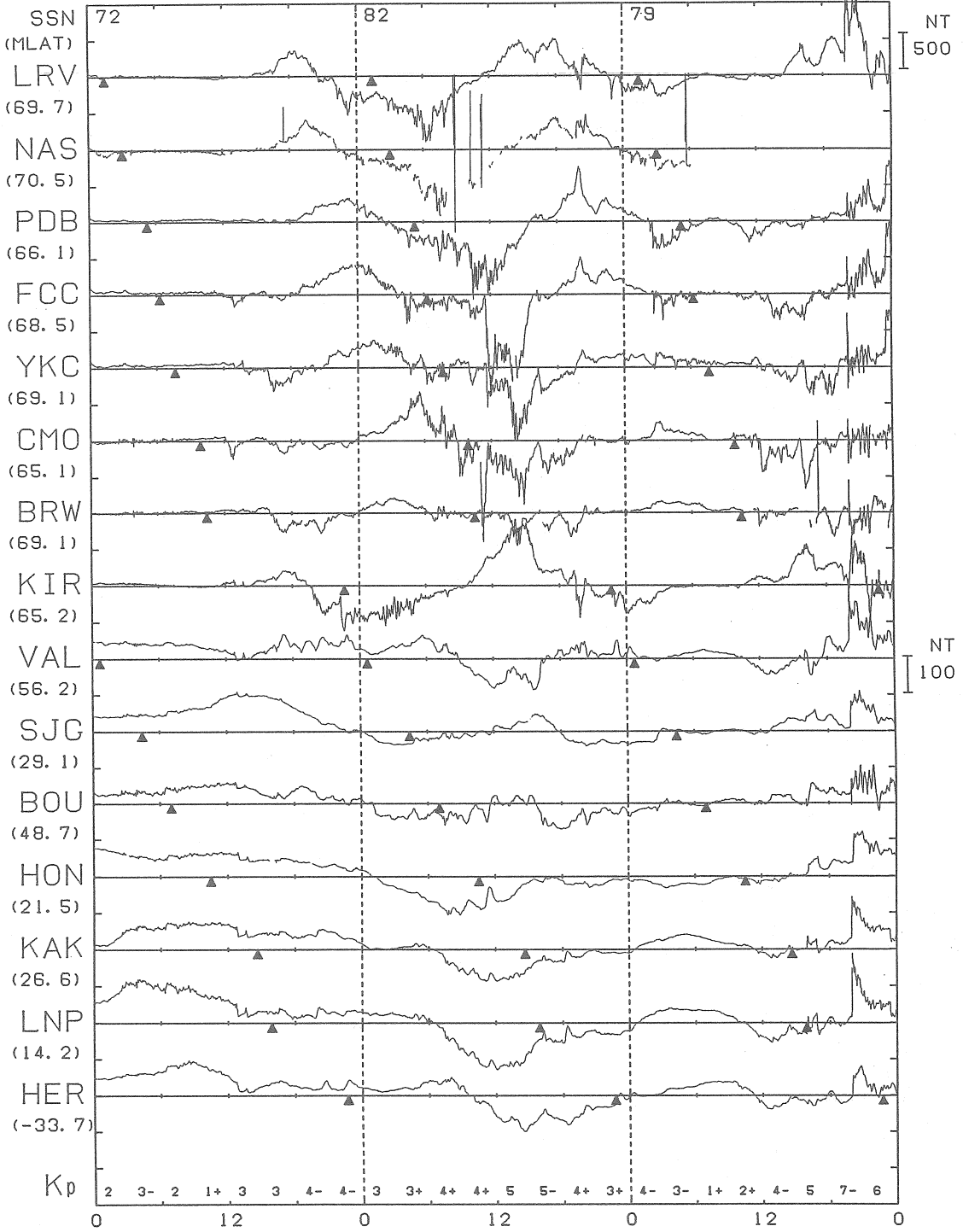
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

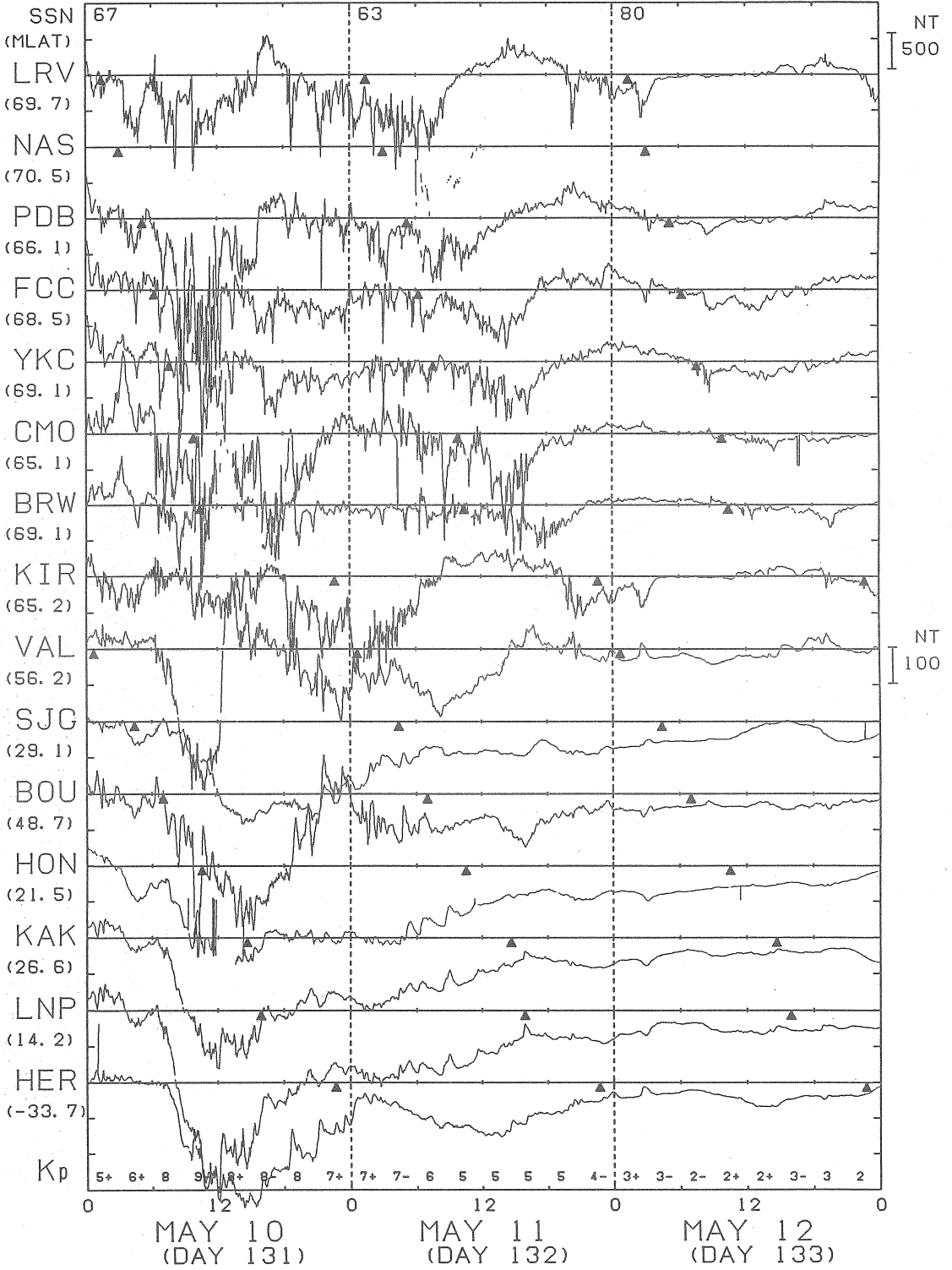
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

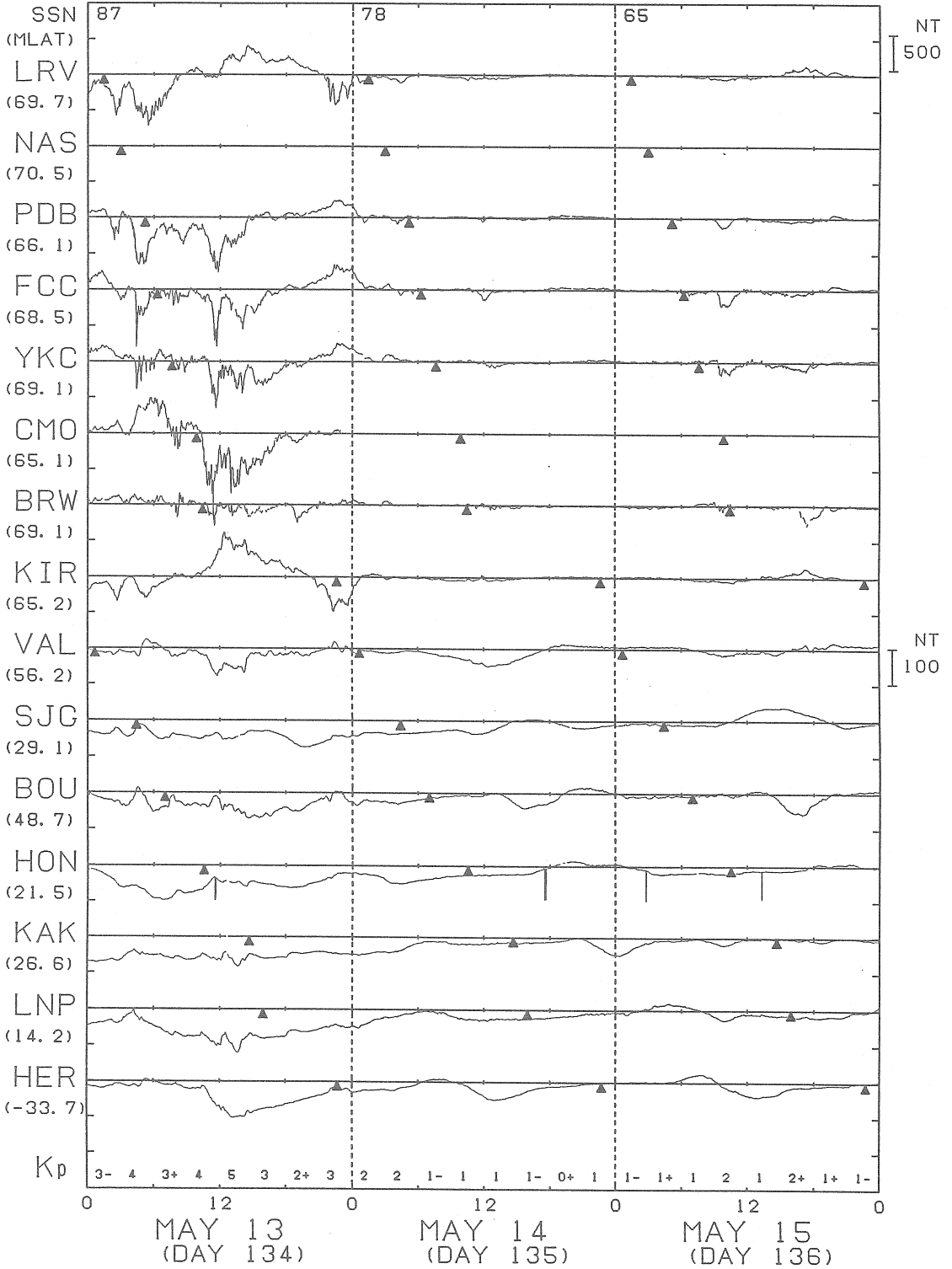
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

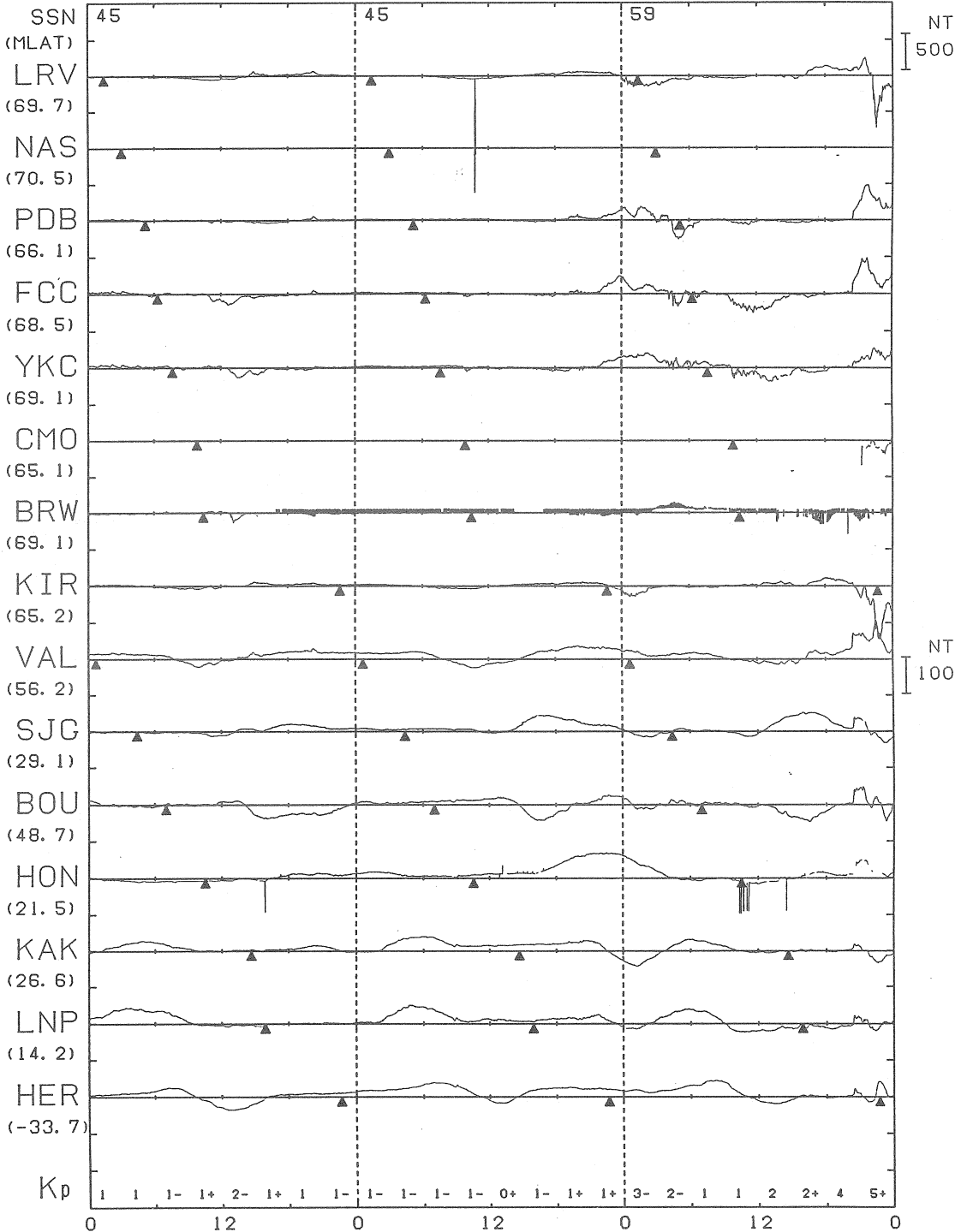
▲ : LOCAL MIDNIGHT



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 * PROMPT DATA ARE INCLUDED
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1992 H OR X-COMPONENT

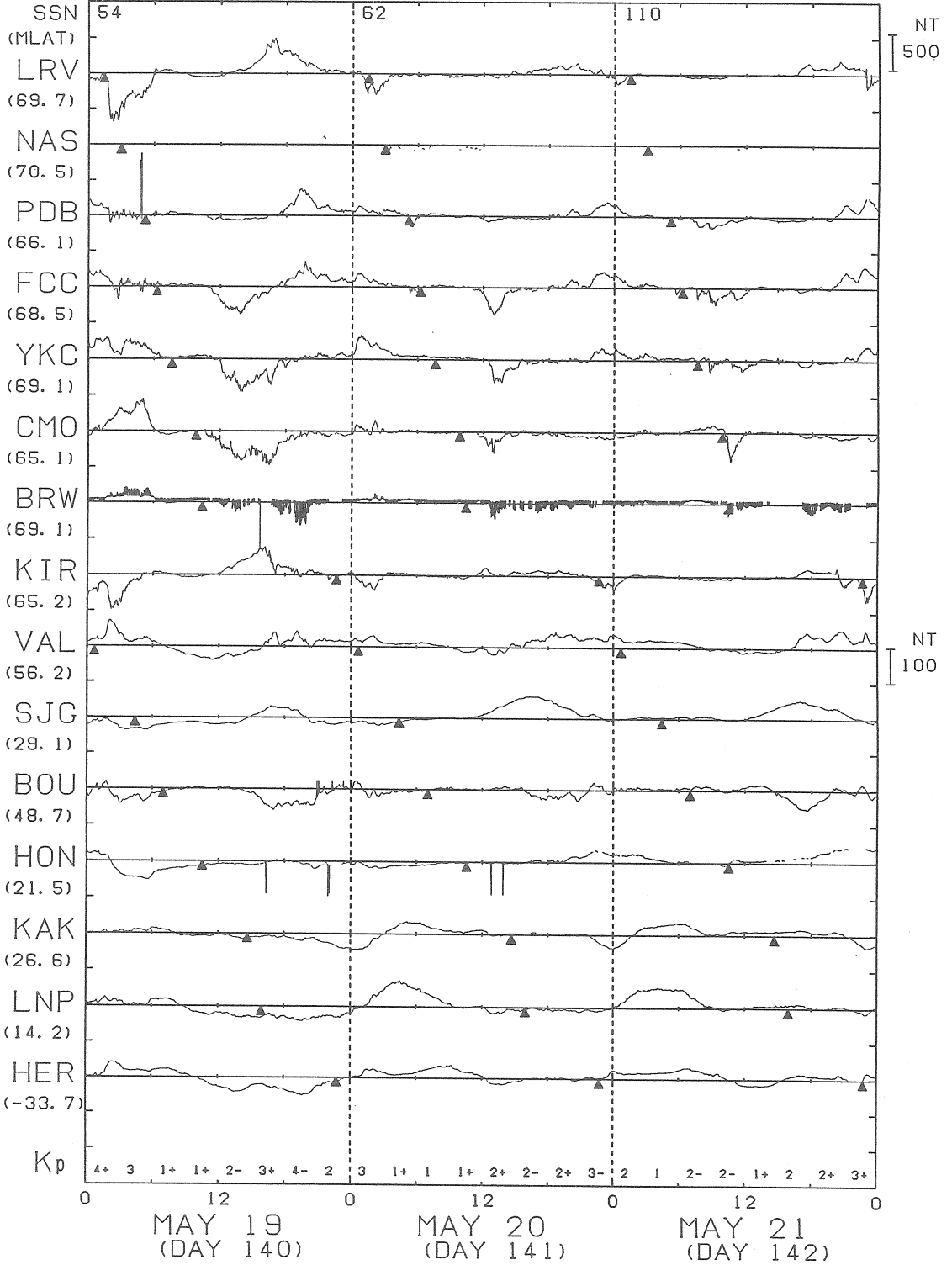
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

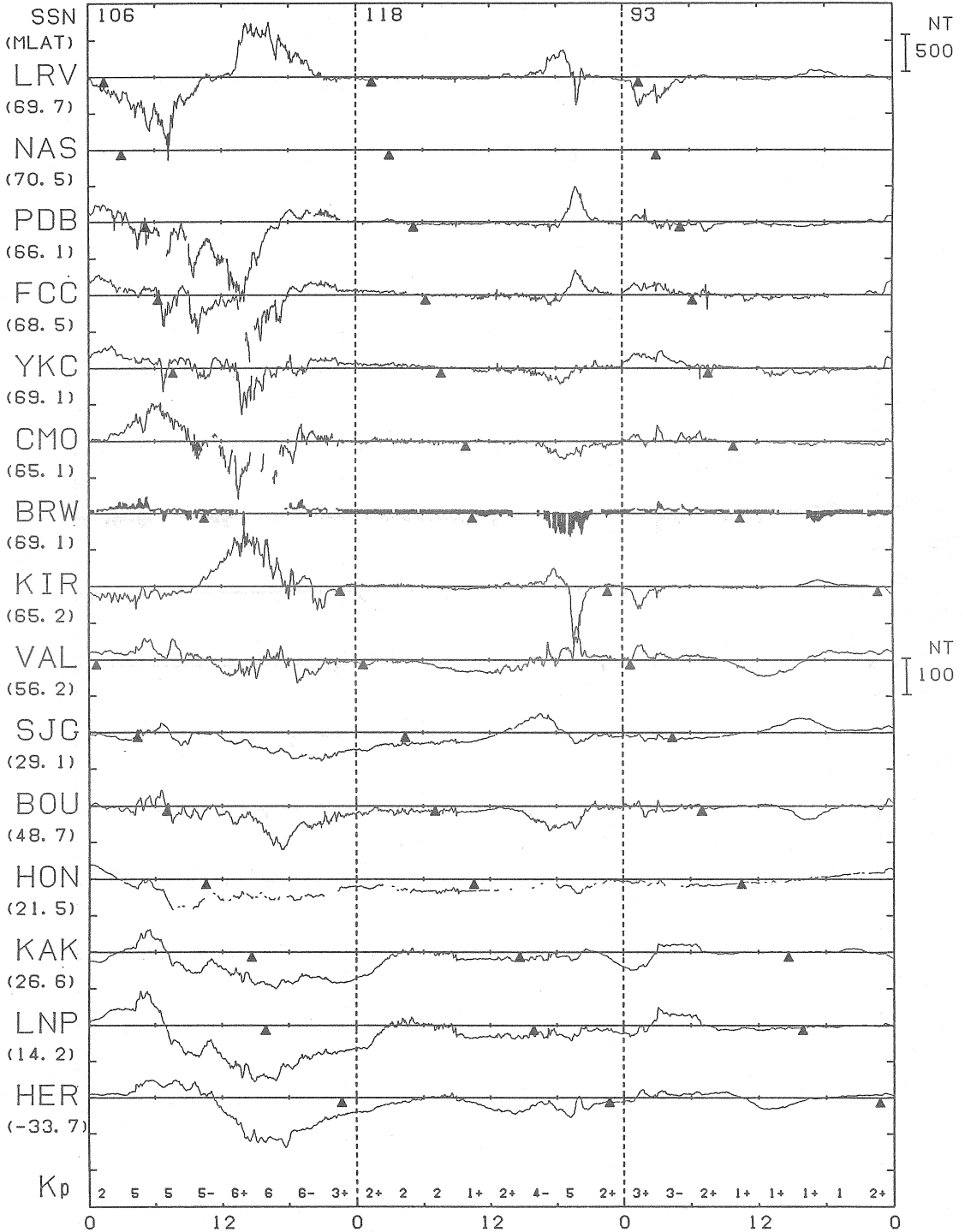
▲ : LOCAL MIDNIGHT



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 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

1992 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

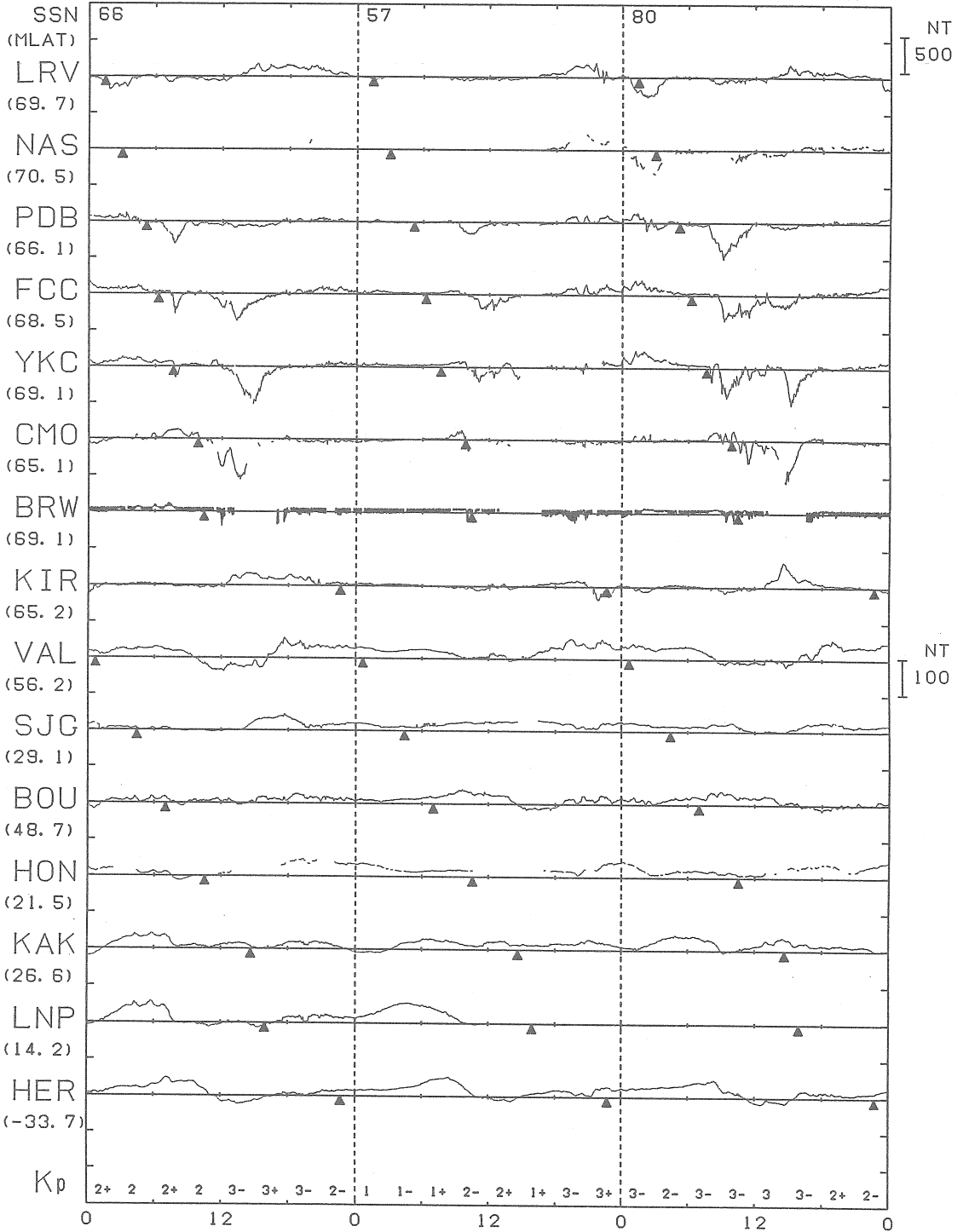


Kp

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
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1992 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAY 25
(DAY 146)

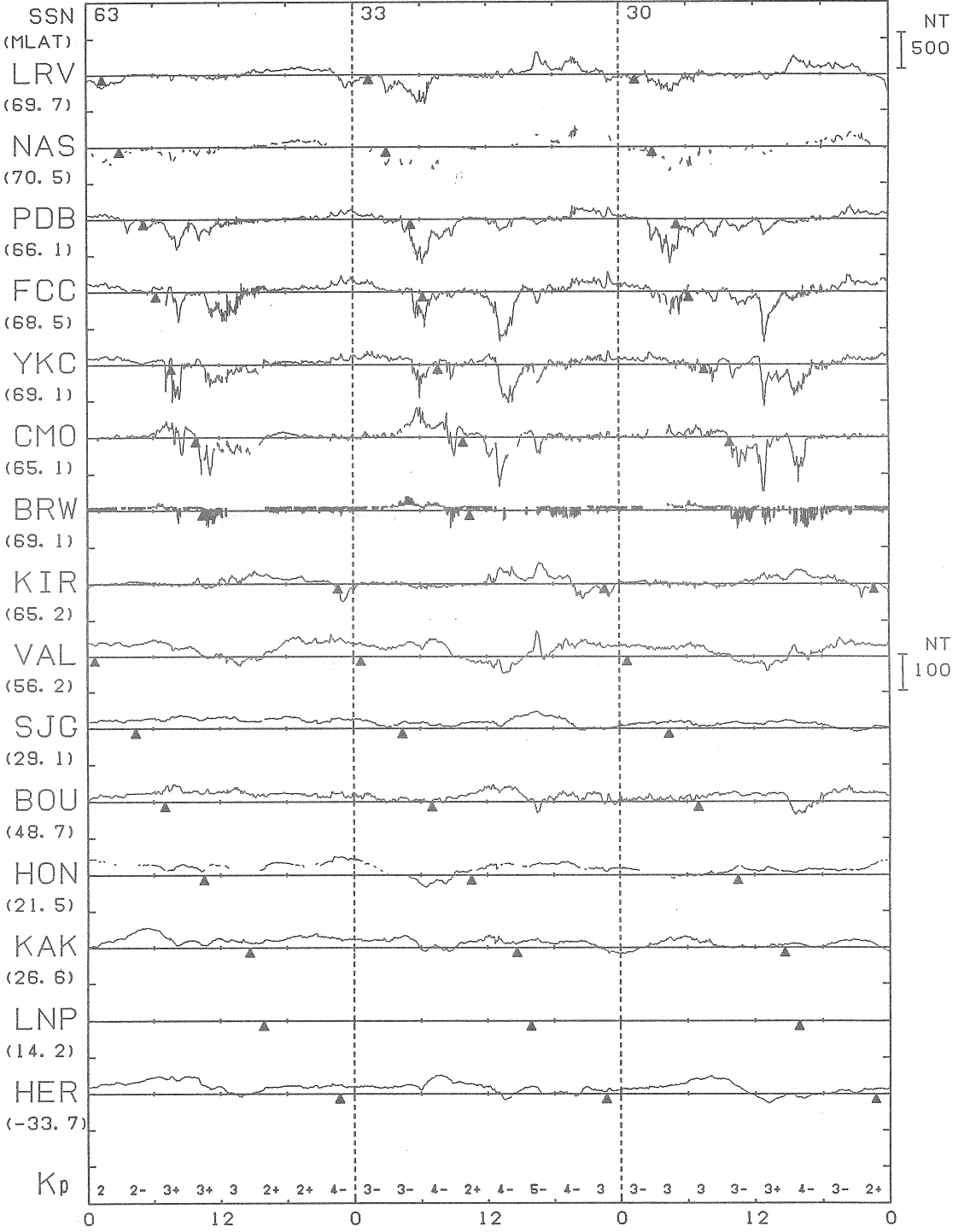
MAY 26
(DAY 147)

MAY 27
(DAY 148)

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

1992 H OR X-COMPONENT

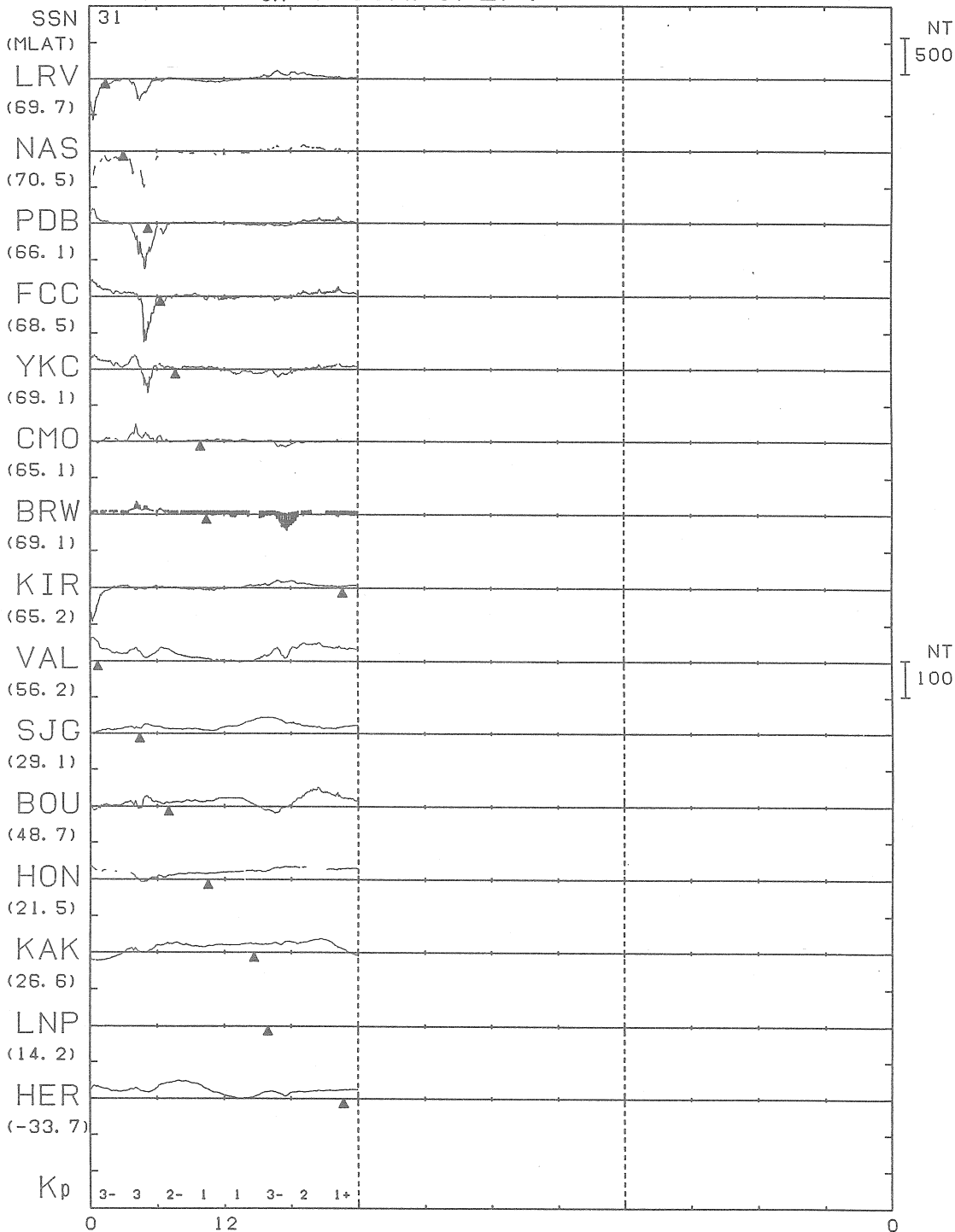
▲ : LOCAL MIDNIGHT



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

1992 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



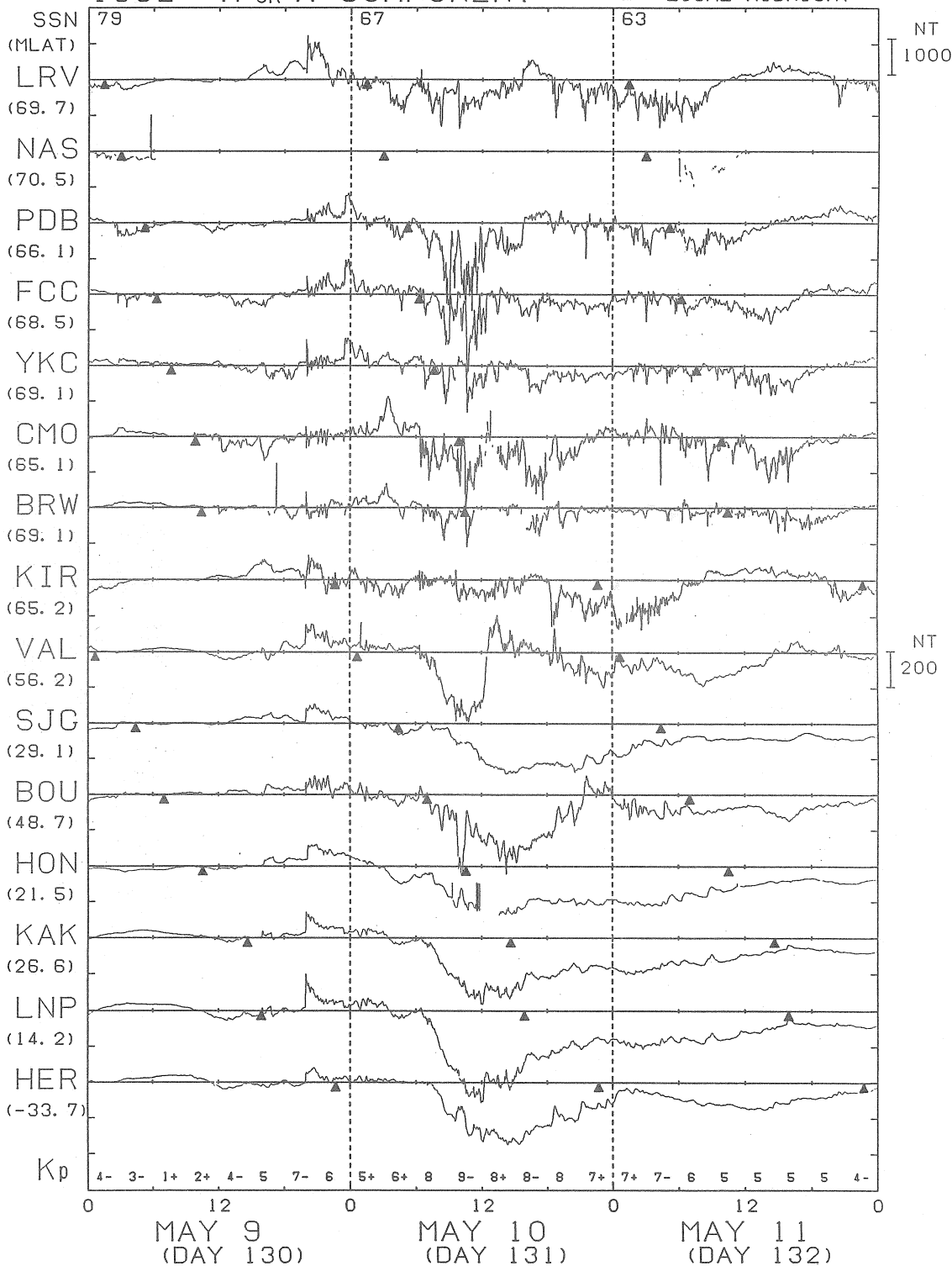
MAY 31
(DAY 152)

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

< STORM SCALE PLOTS >

1992 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



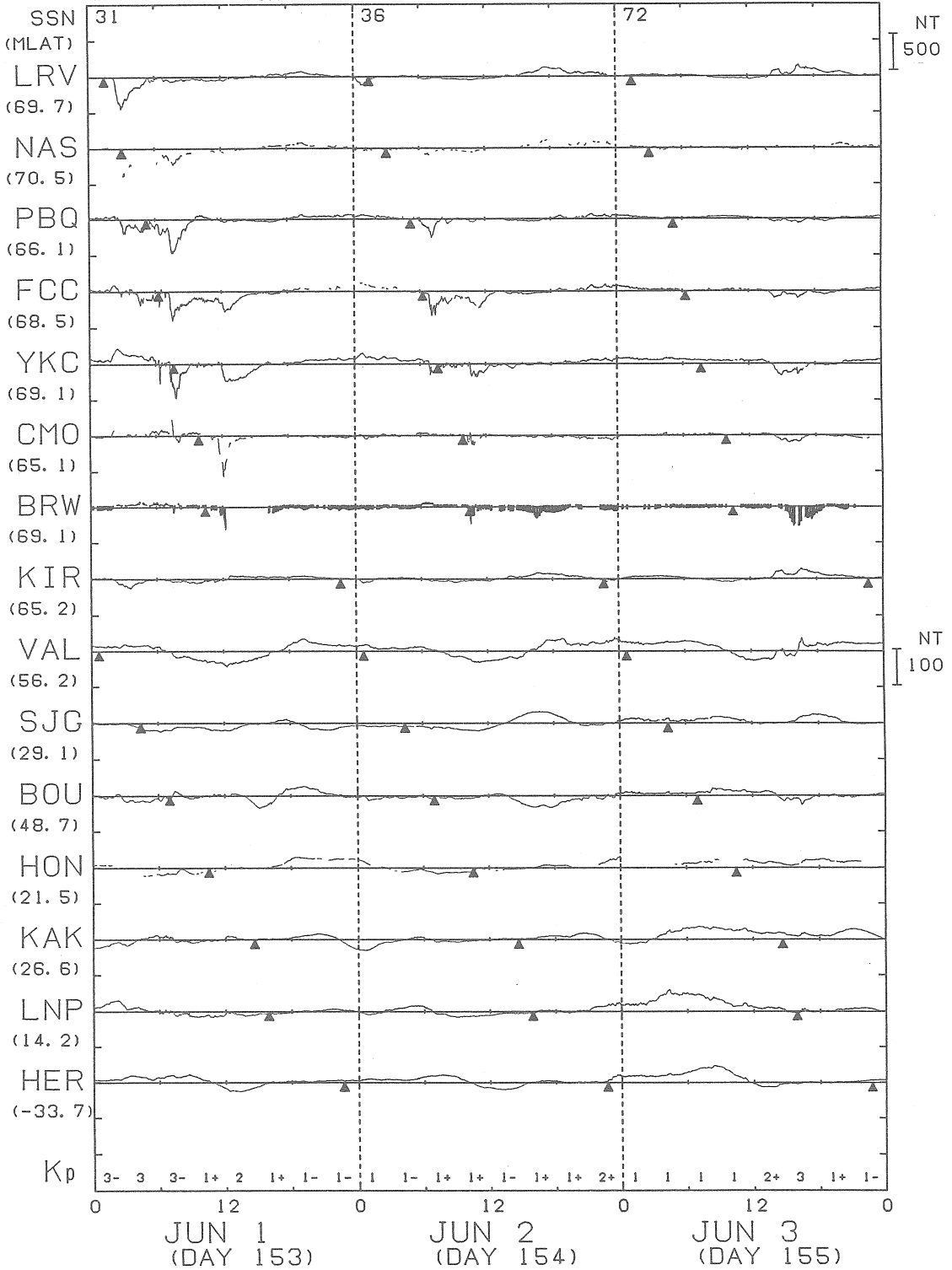
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
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JUNE 1992

(DAY 153 - 182)

1992 H OR X-COMPONENT

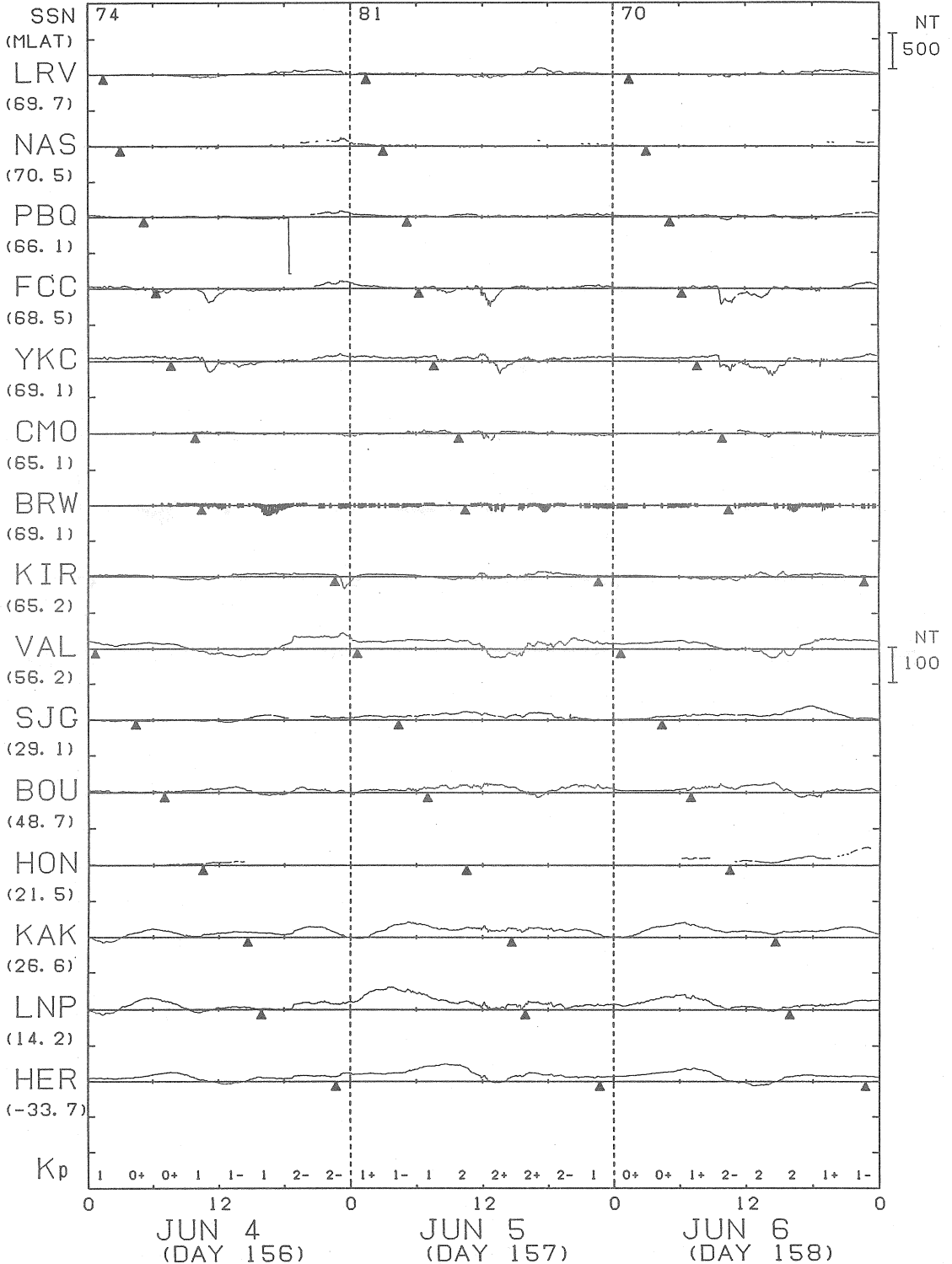
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

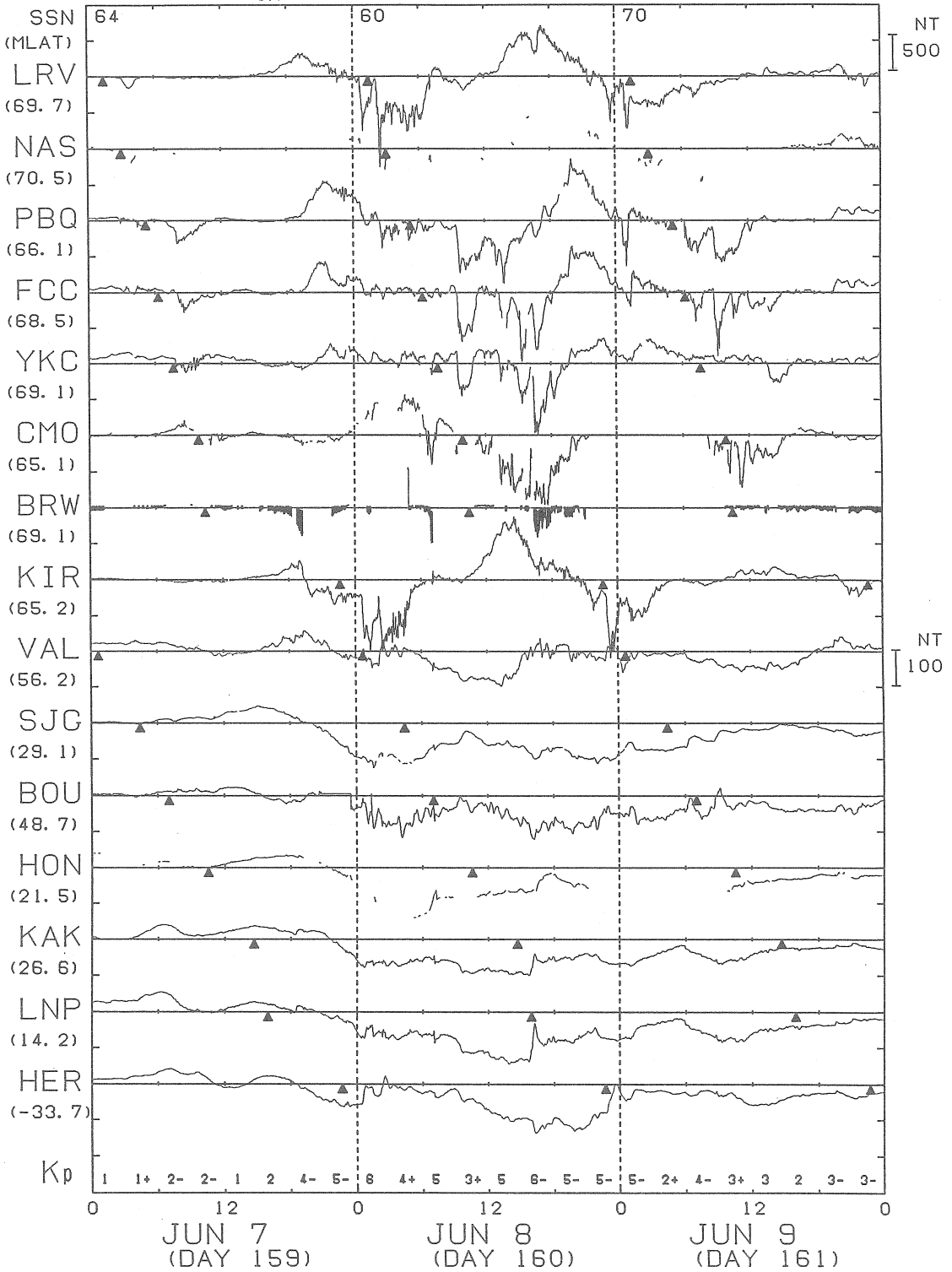
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

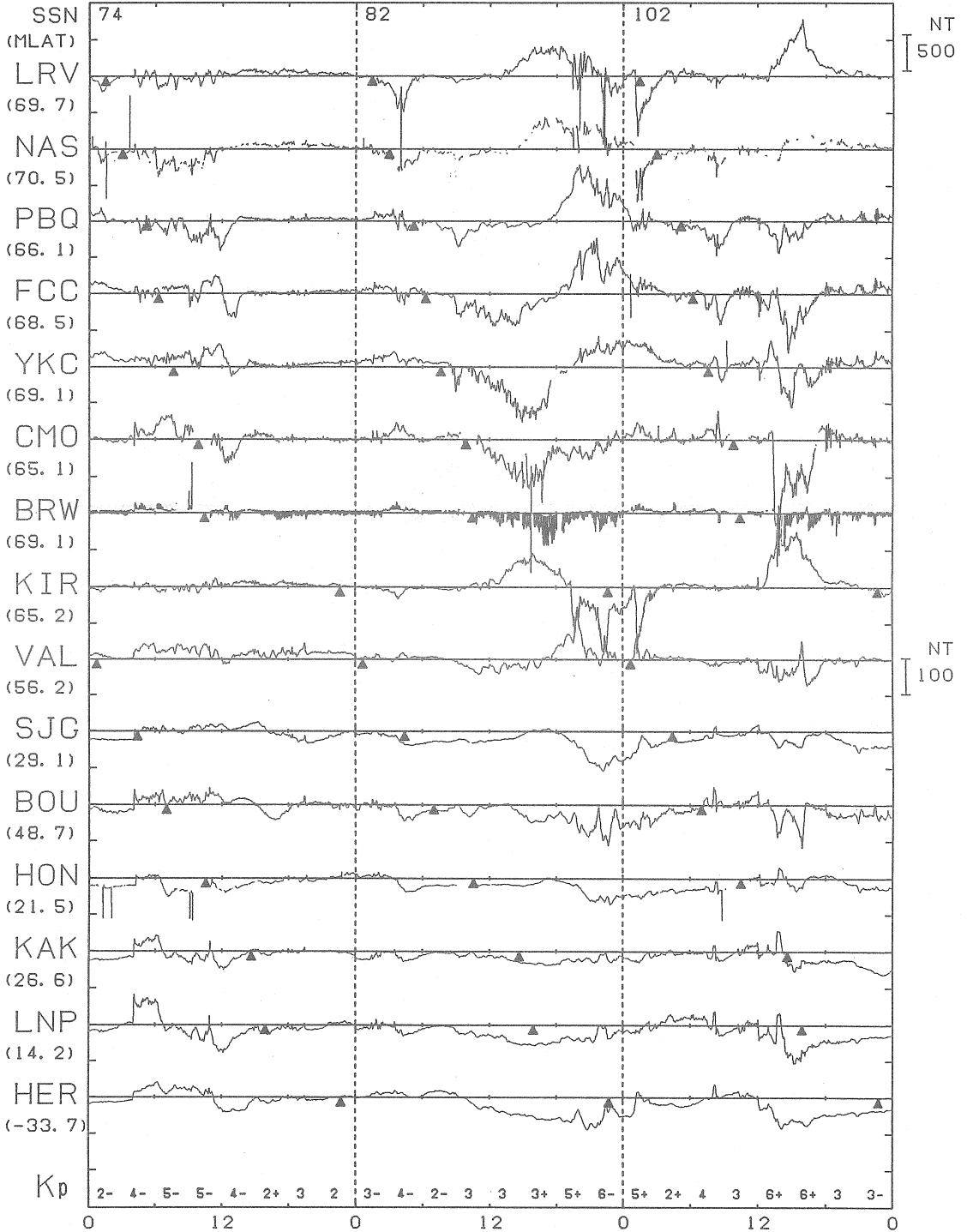
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

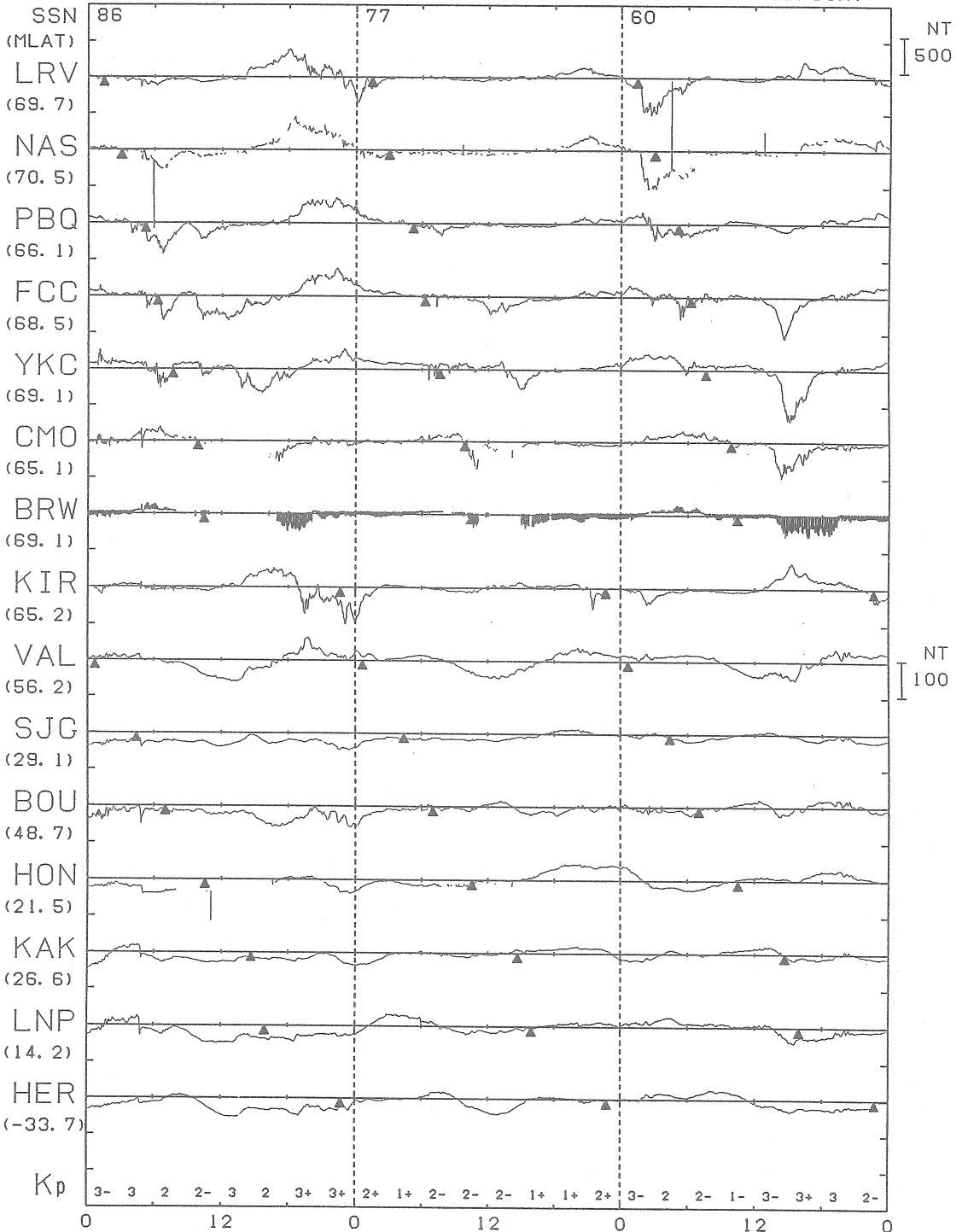
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

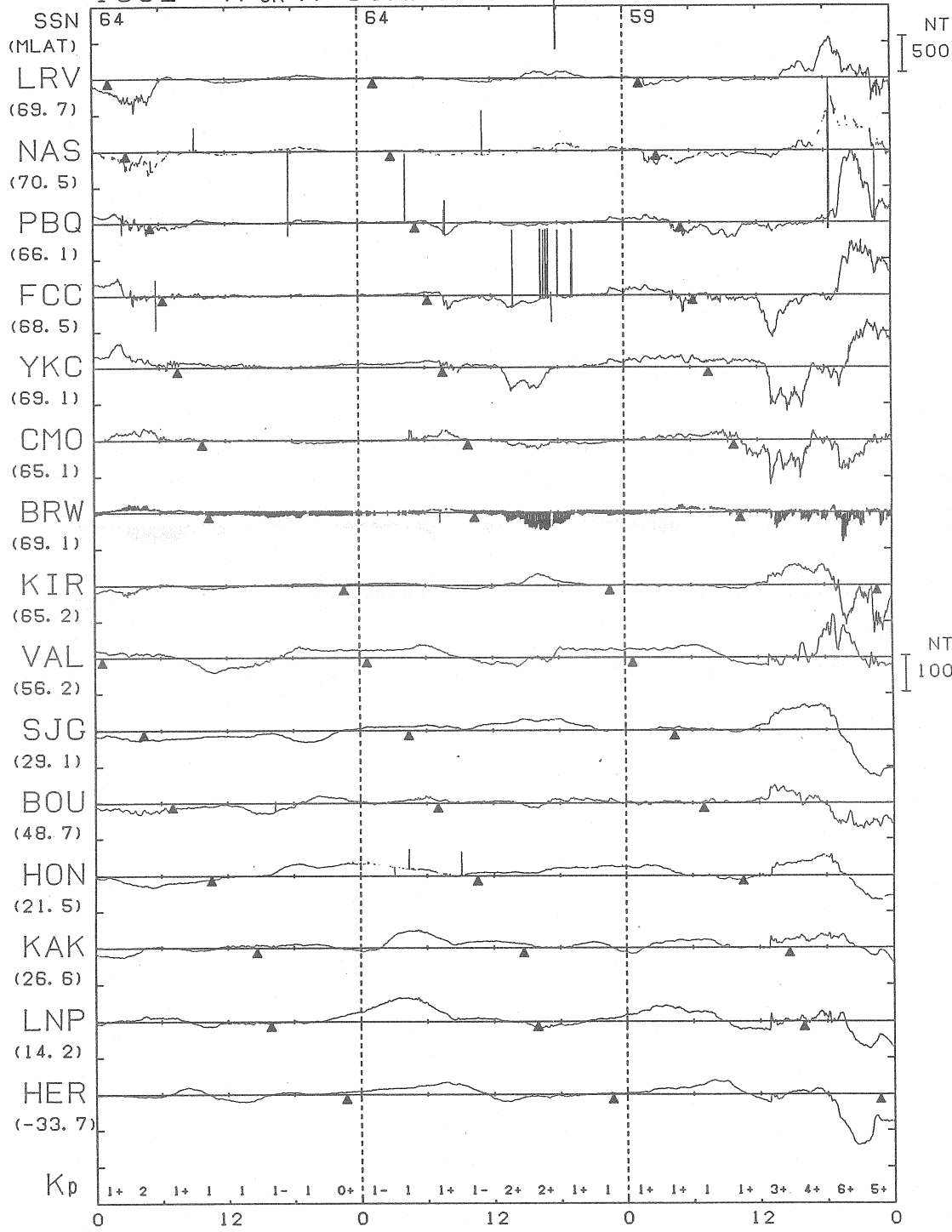
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

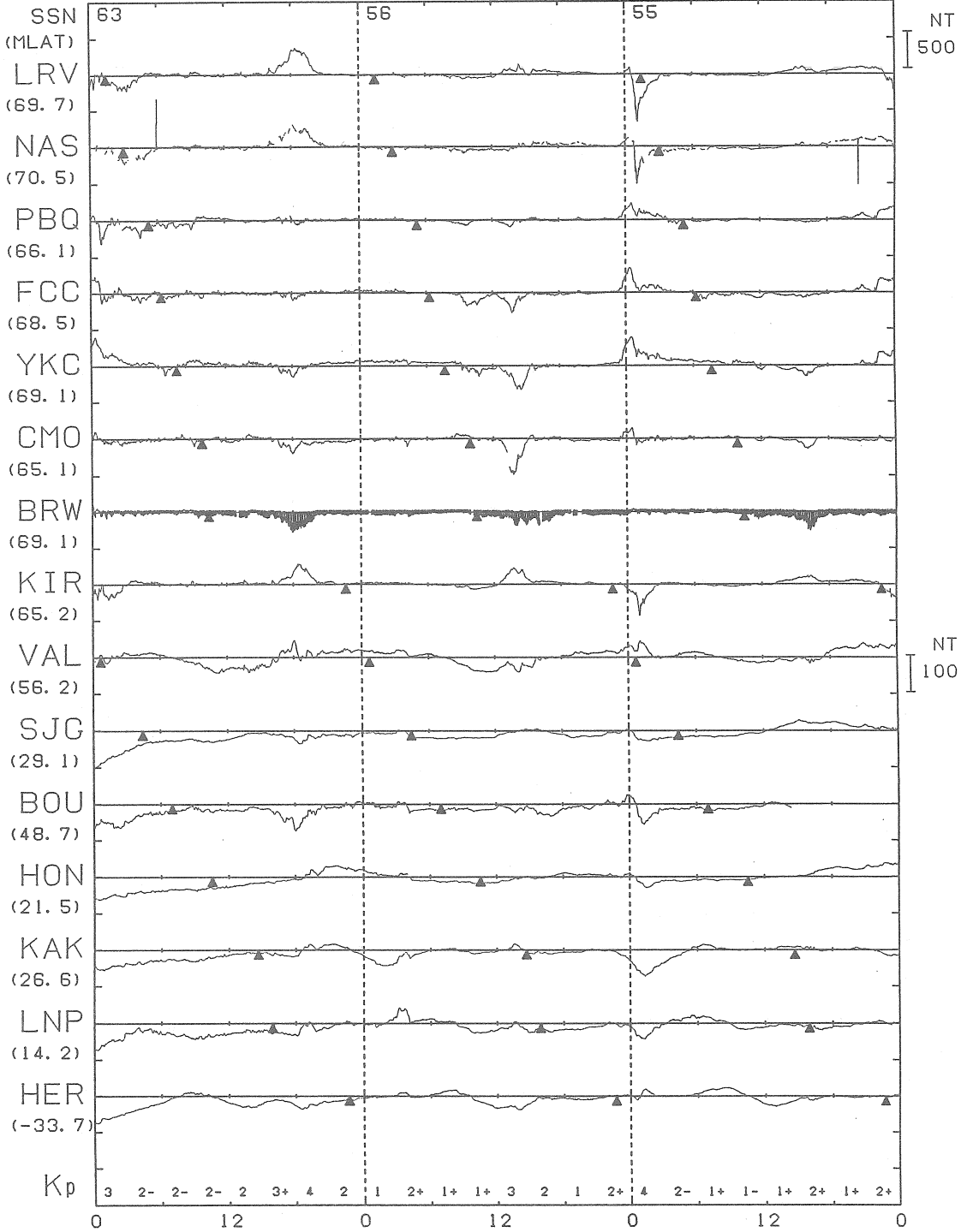


JUN 16 (DAY 168) JUN 17 (DAY 169) JUN 18 (DAY 170)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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1992 H OR X-COMPONENT

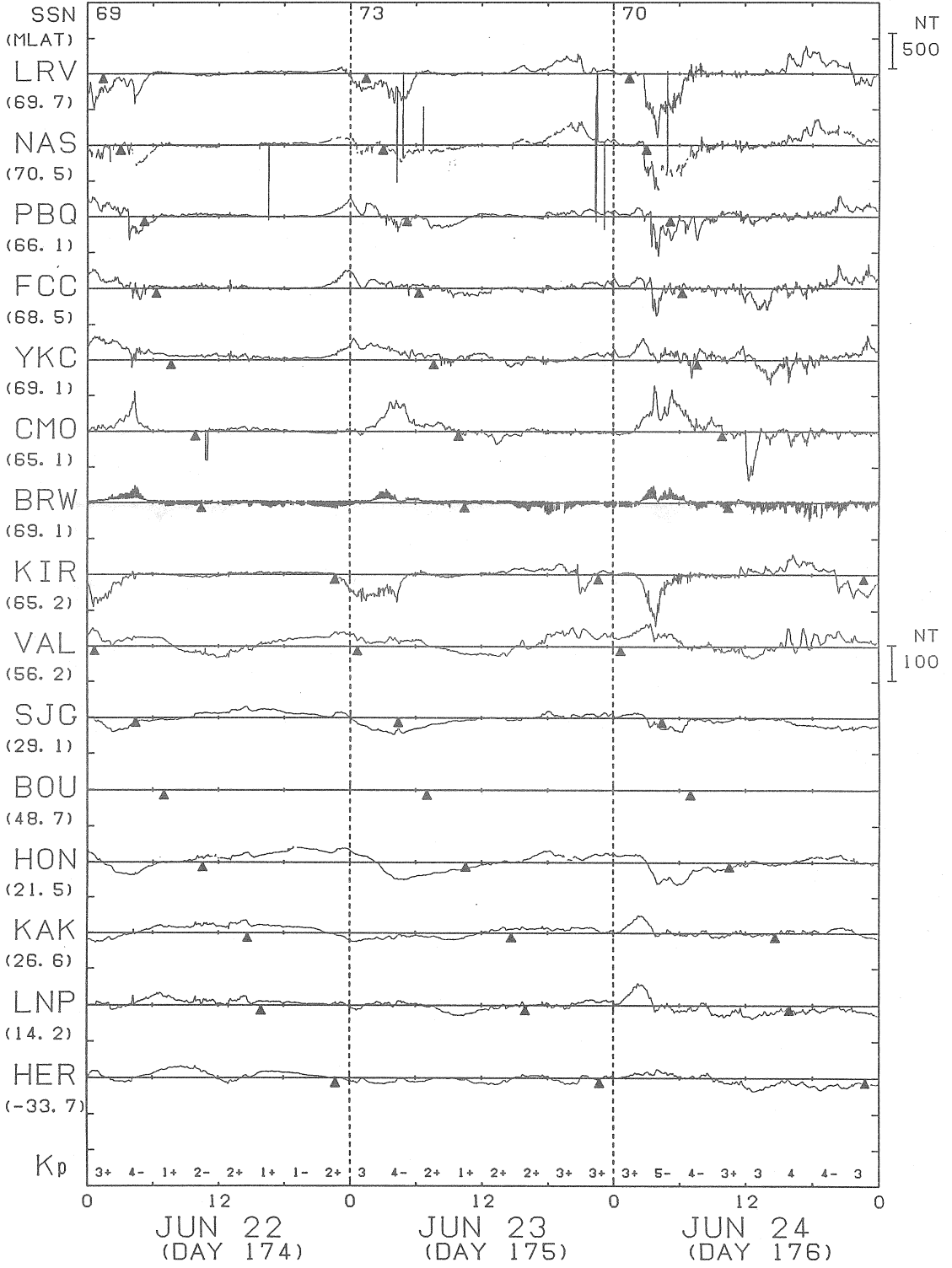
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

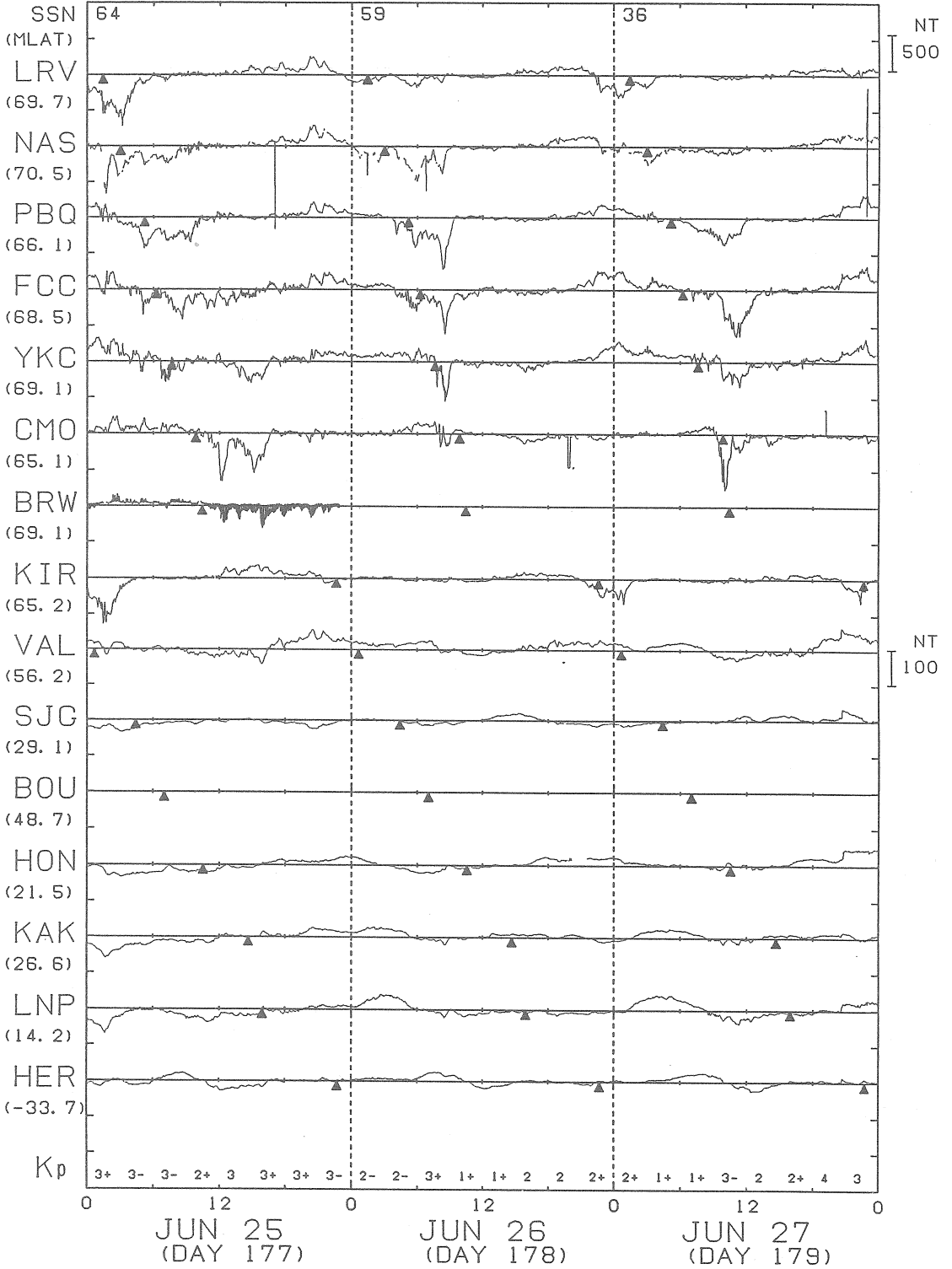
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

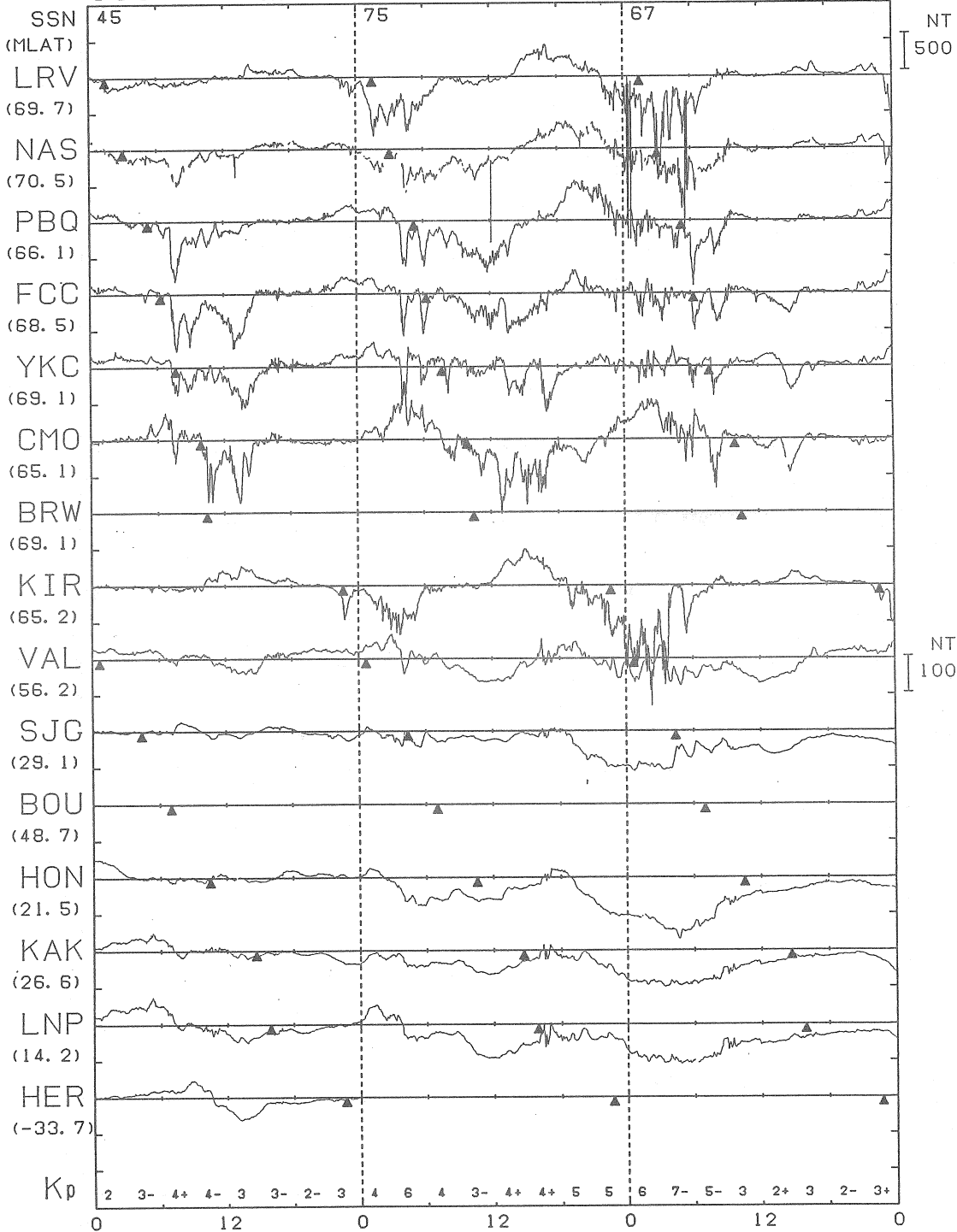
▲ : LOCAL MIDNIGHT



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1992 H OR X-COMPONENT

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