

**PROVISIONAL GEOMAGNETIC
DATA PLOTS
No. 5**

(July – December, 1991)

APRIL 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 July - December, 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.

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.
- (8)The Chambon-la-Forêt Magnetic Observatory.

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.

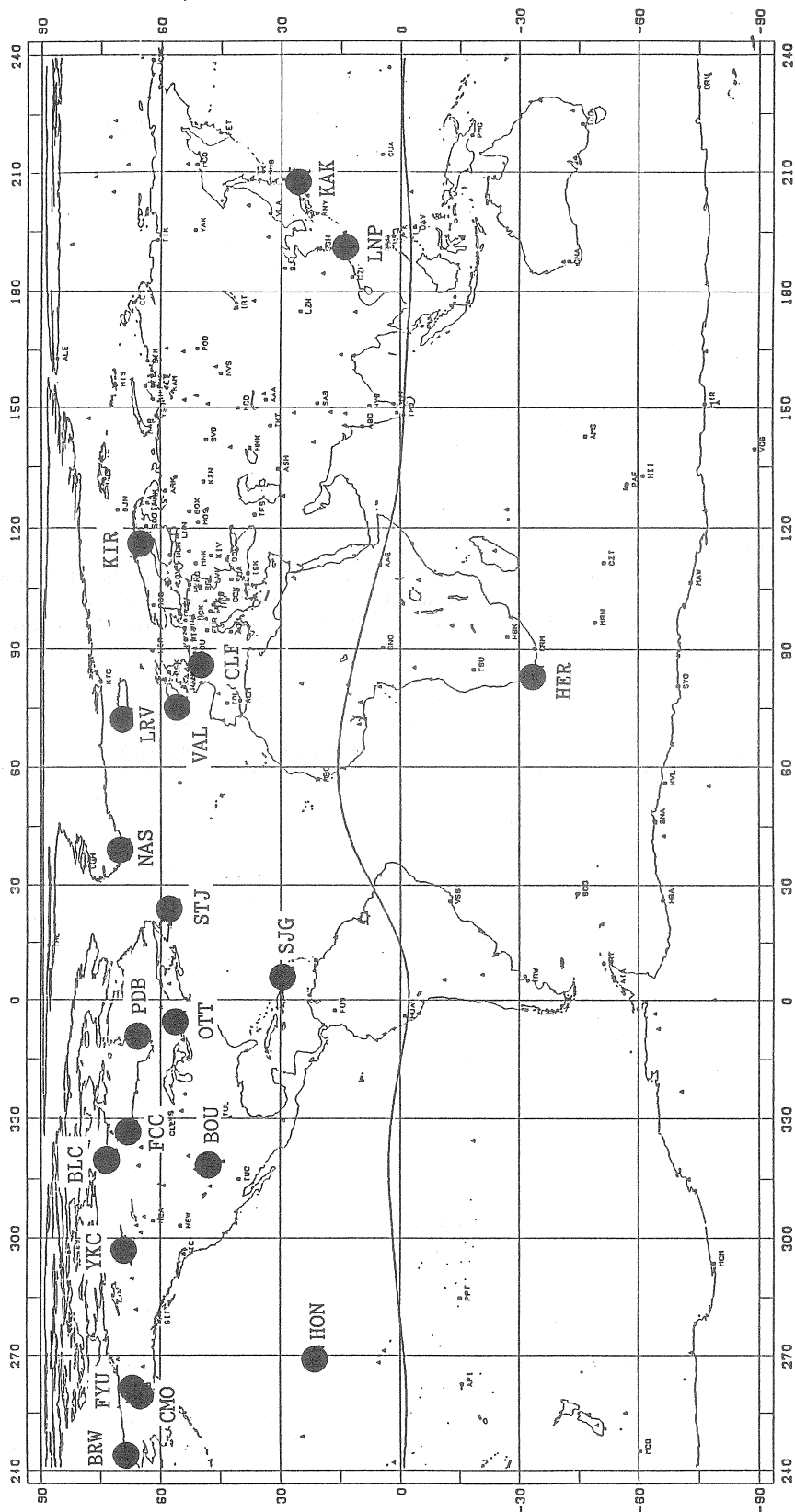
STATION NAME	ABB CODE	ORG No.	GEOGRAPHIC		GEOMAGNETIC		INVARIANT LAT.	PLOT SCALE
			LAT.	LONG.	LAT.	LONG.		
Baker Lake	BLC	1	64.3	264.0	73.7	319.2	74.6	500nT/div
Narsarsuaq	NAS	1	61.2	314.6	70.6	38.7	67.5	"
Leirvogur	LRV	2	64.2	338.3	69.7	72.0	65.7	"
Yellowknife	YKC	1	62.5	245.5	69.1	296.6	69.8	"
Barrow	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	"
Fort Yukon	FYU	1	66.6	214.7	67.1	259.6	67.0	"
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	"
St. Johns	STJ	1	47.6	307.3	57.9	23.4	55.6	"
Ottawa	OTT	1	45.4	284.5	56.4	354.1	57.2	"
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	"
Lunping	LNP	5	25.0	121.2	14.2	191.3	7.6	"
Chambon-la-Forêt	CLF	8	48.0	2.3	50.1	85.7	45.7	"
Hermanus	HER	6	-34.4	19.2	-33.7	82.7	43.6	"

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

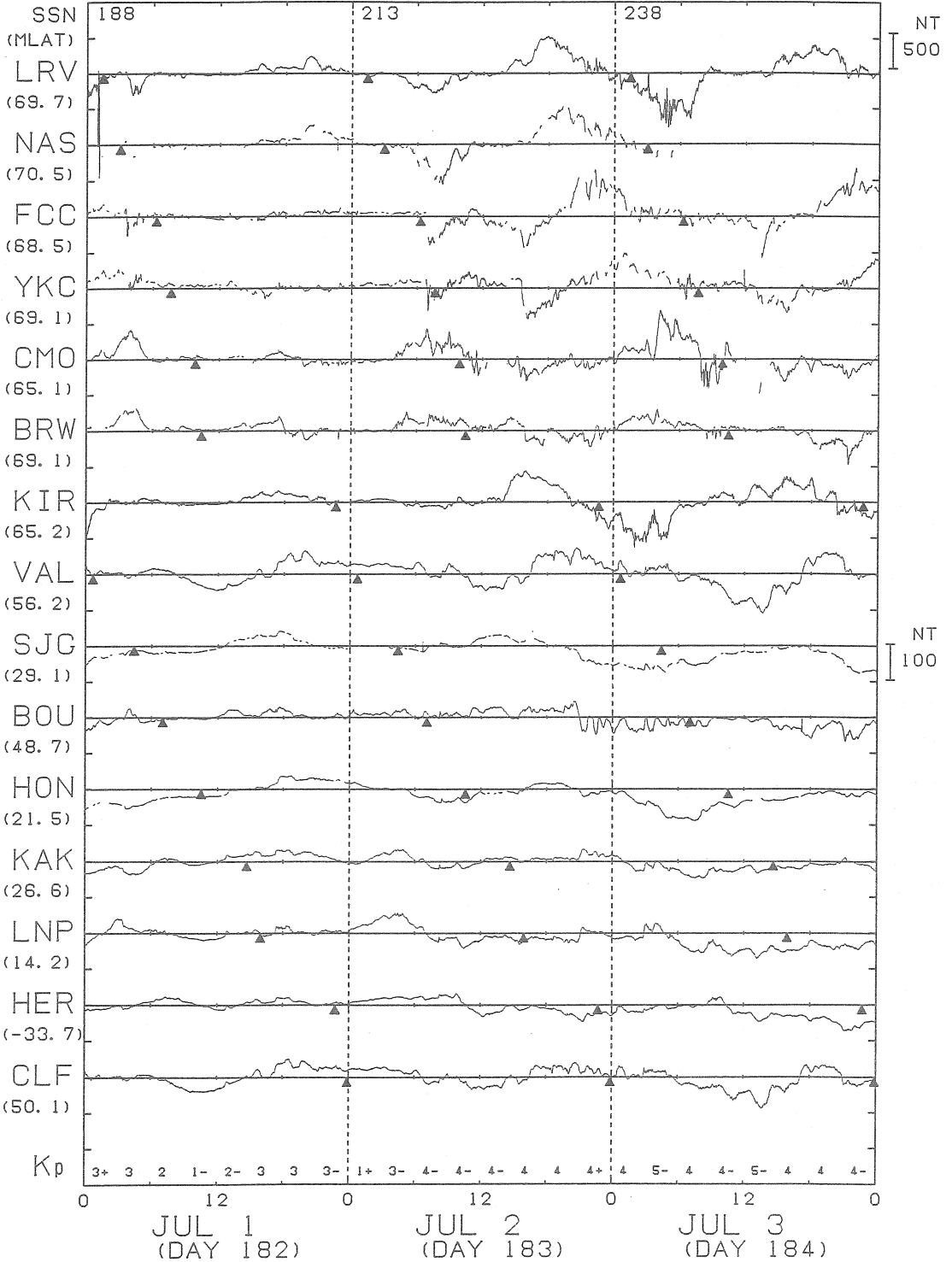
Fig.1 Data are obtained at the observatories shown by the solid circles.

JULY 1991

(DAY 182 - 212)

1991 H OR X-COMPONENT

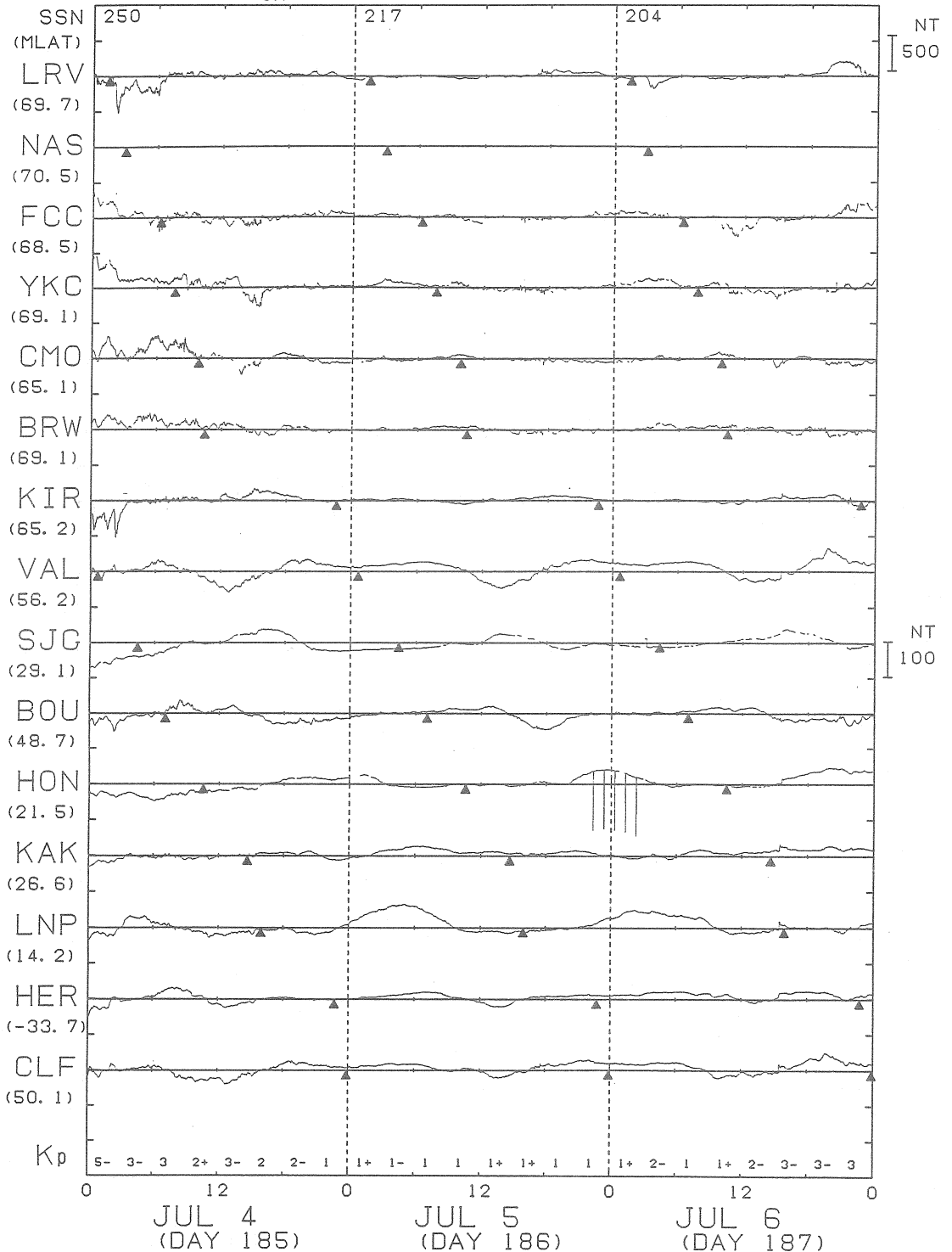
▲ : LOCAL MIDNIGHT



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

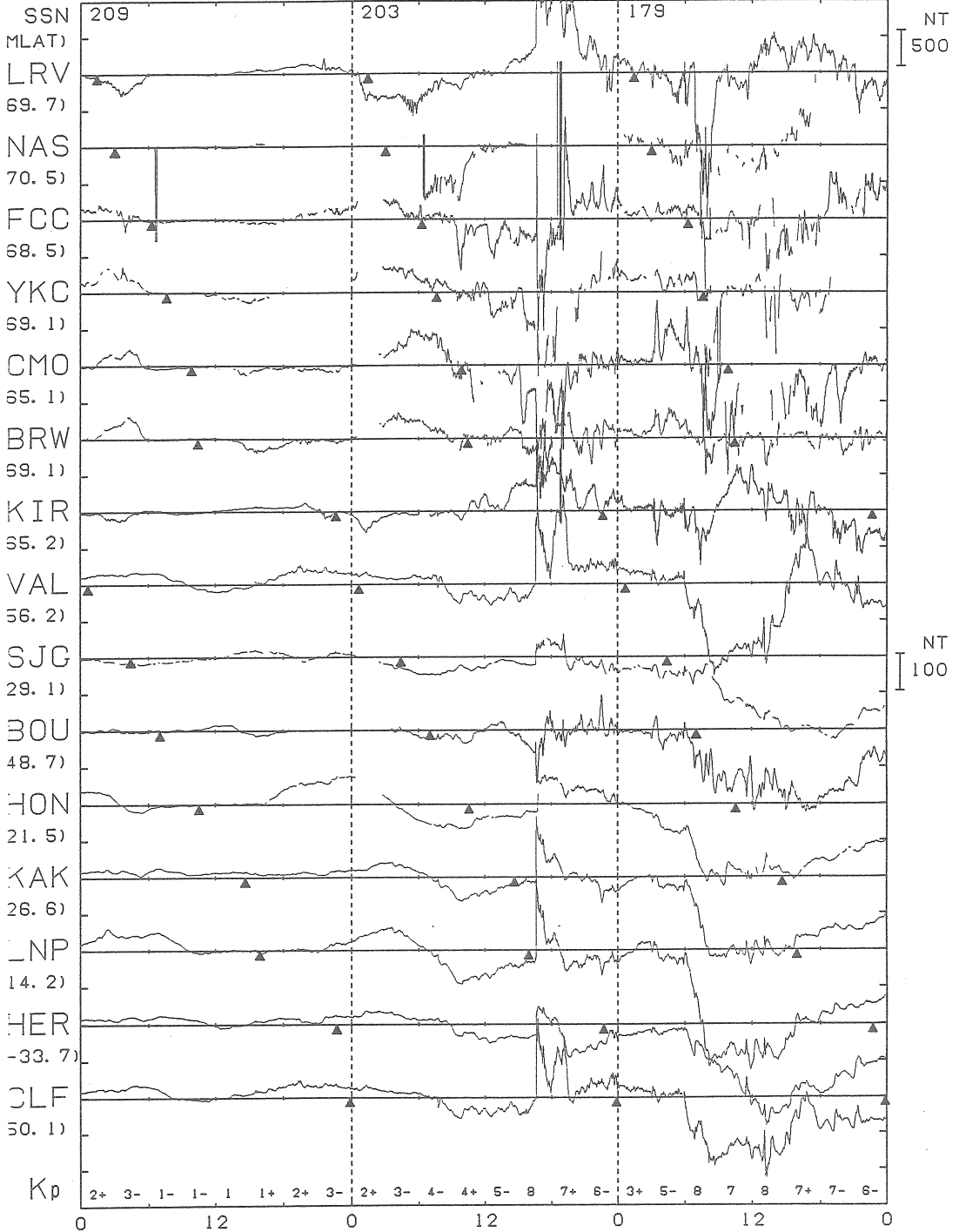
1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



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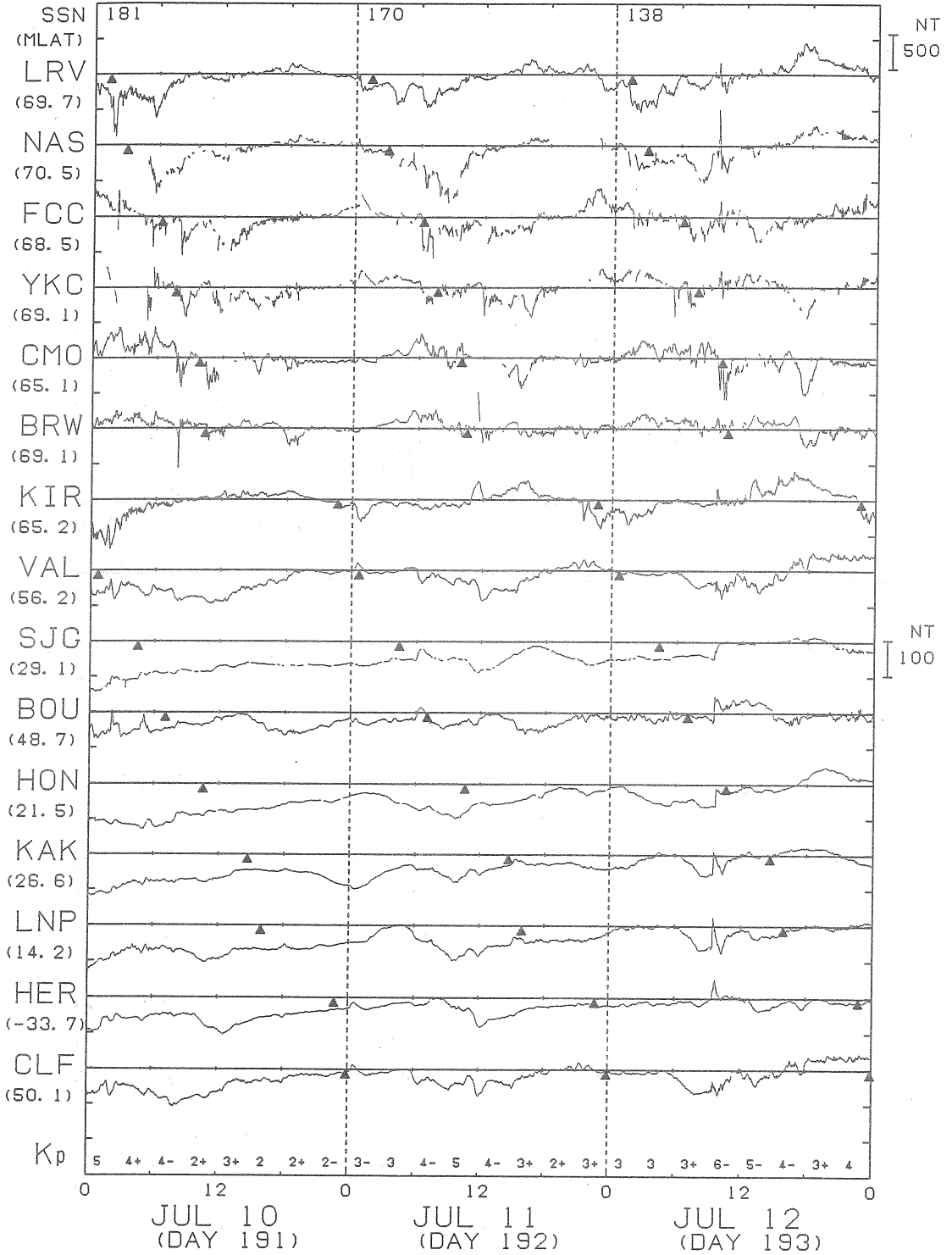
1991 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

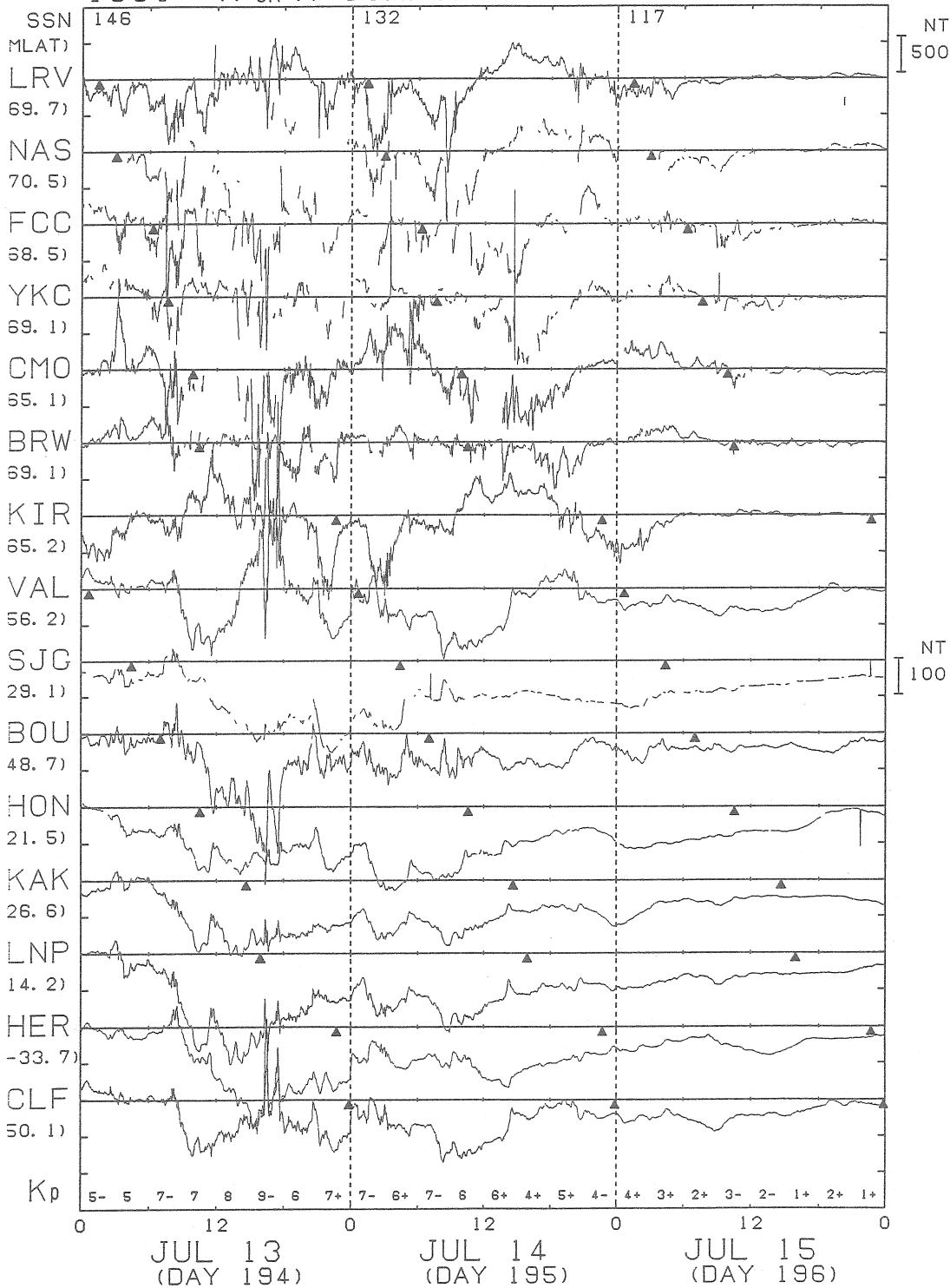
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

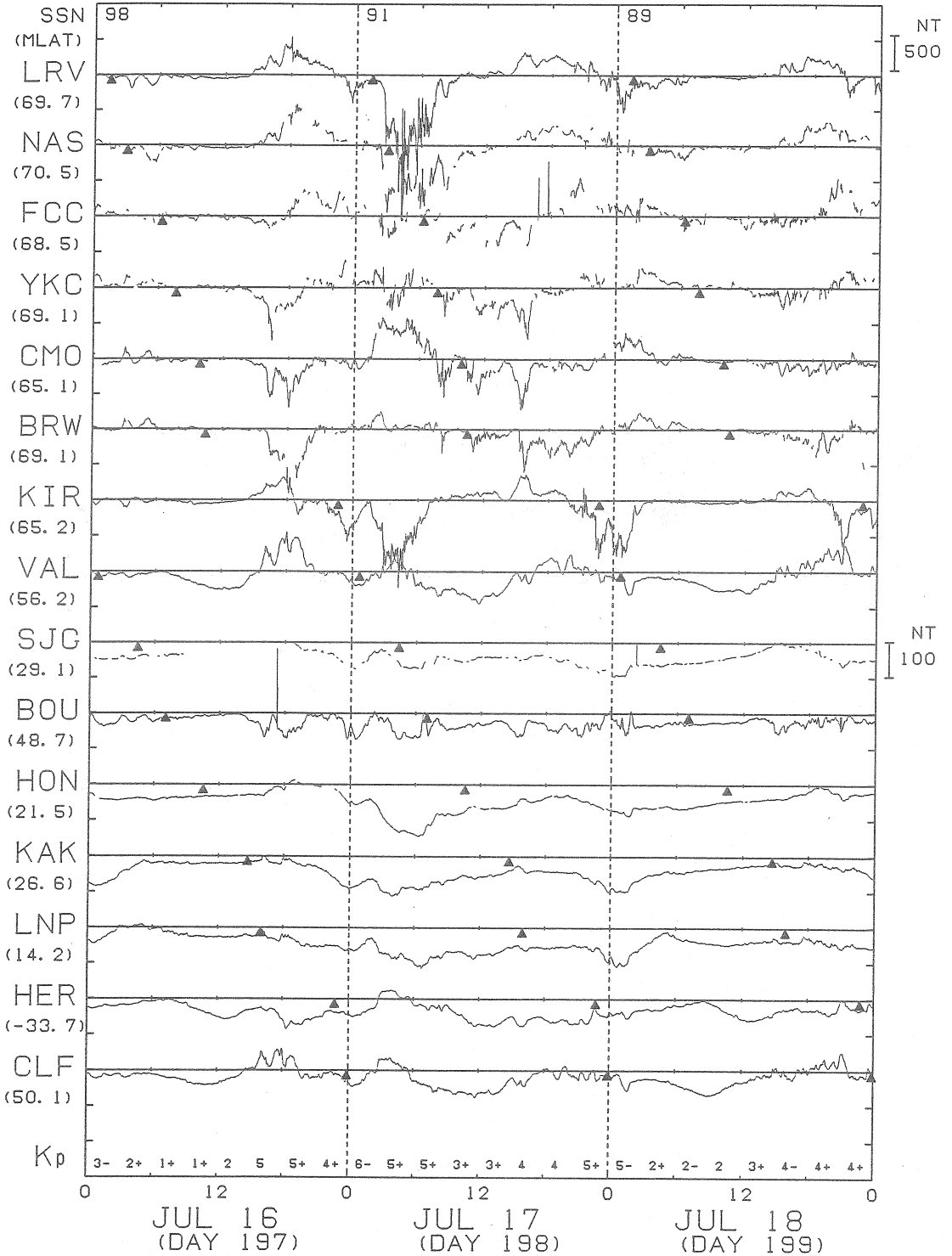
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

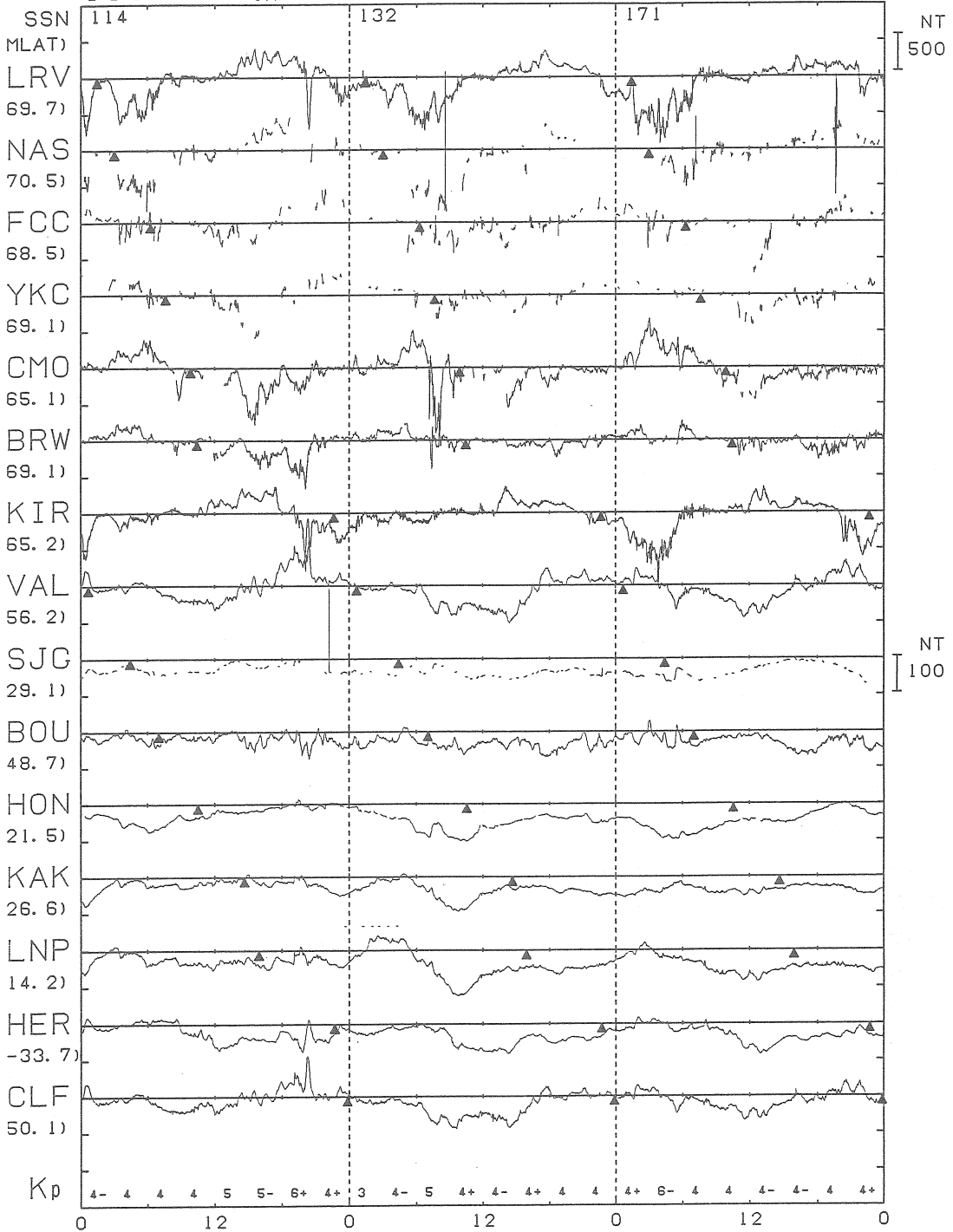
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

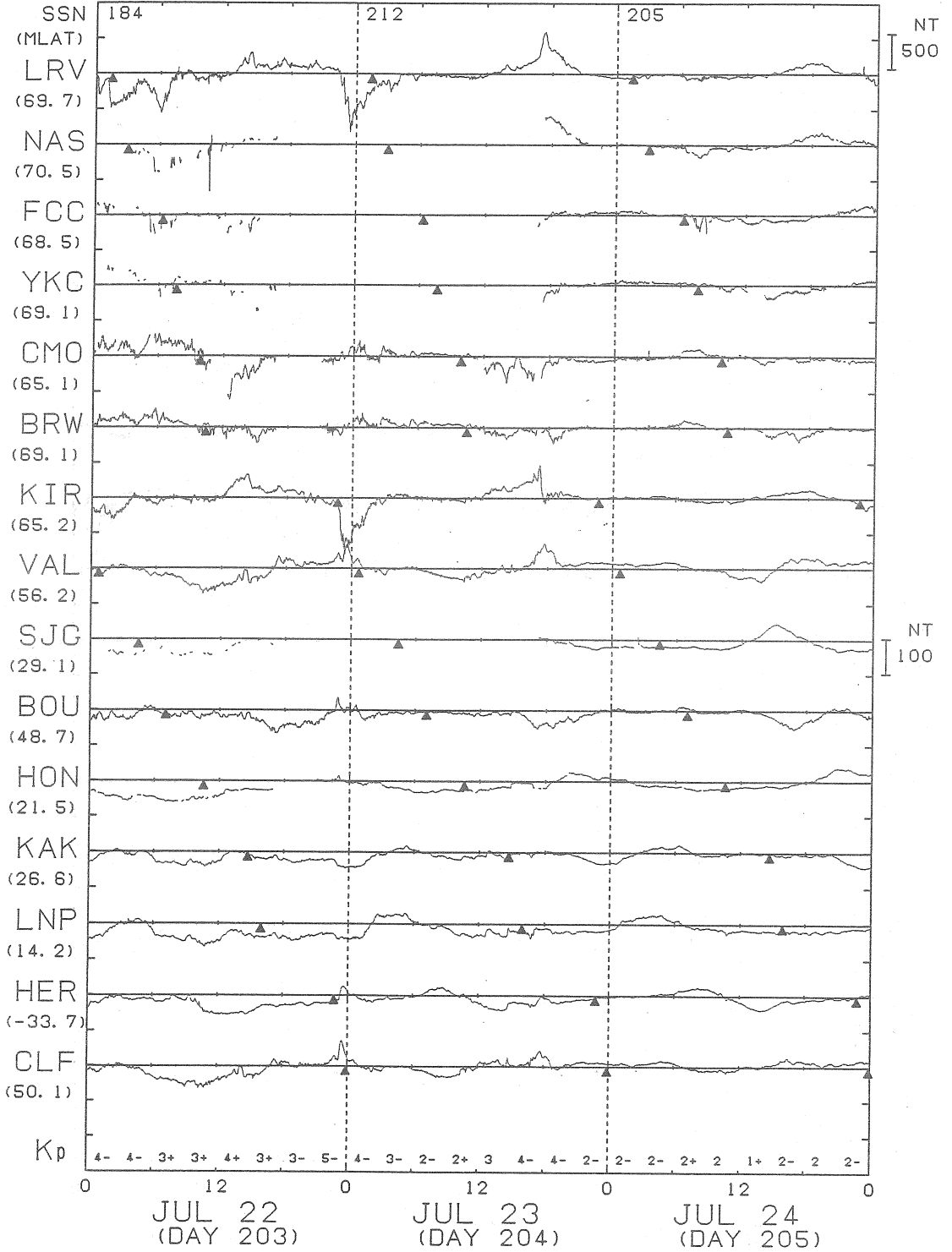


0 12 0 12 0 12
 JUL 19 (DAY 200) JUL 20 (DAY 201) JUL 21 (DAY 202)

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1991 H OR X-COMPONENT

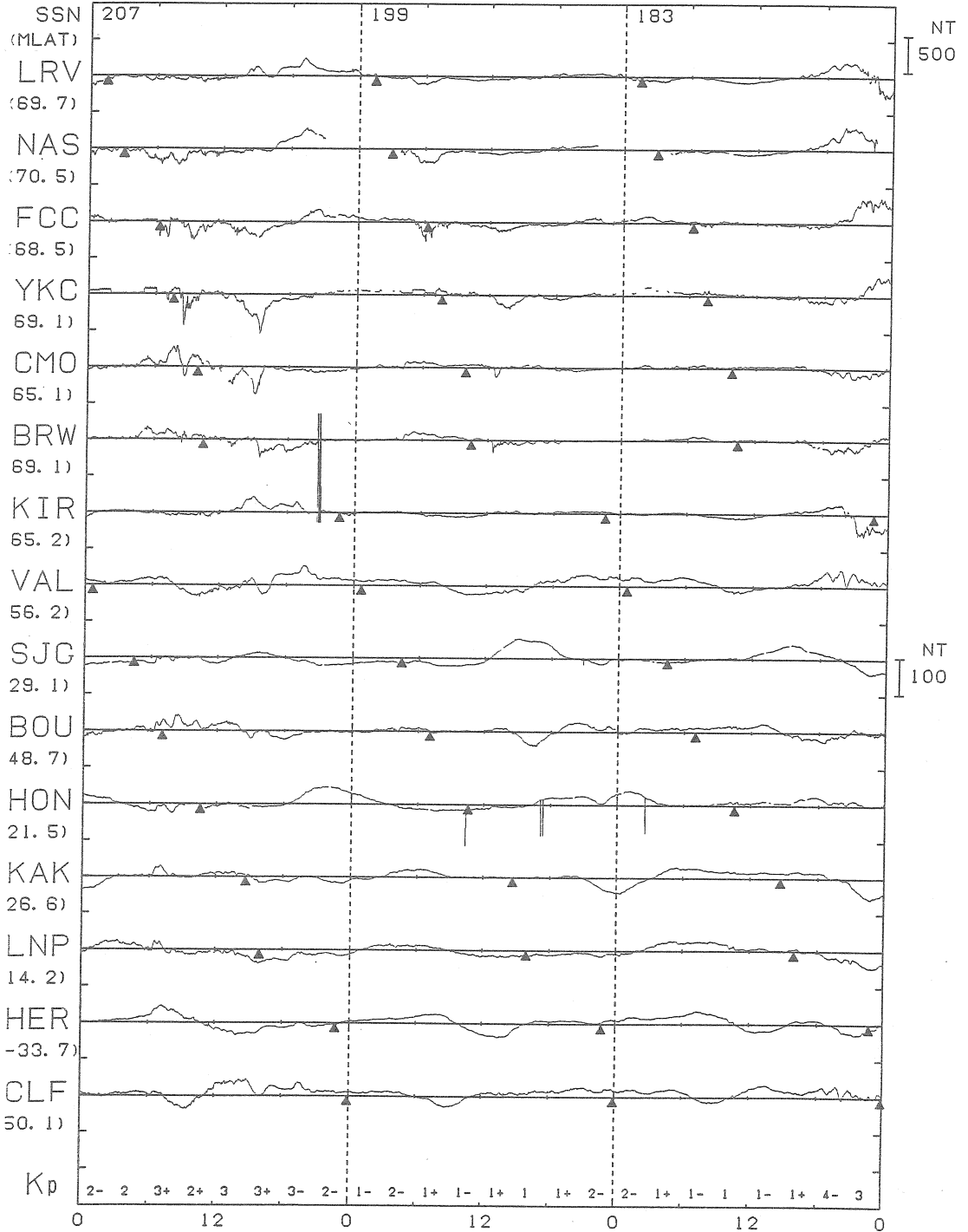
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

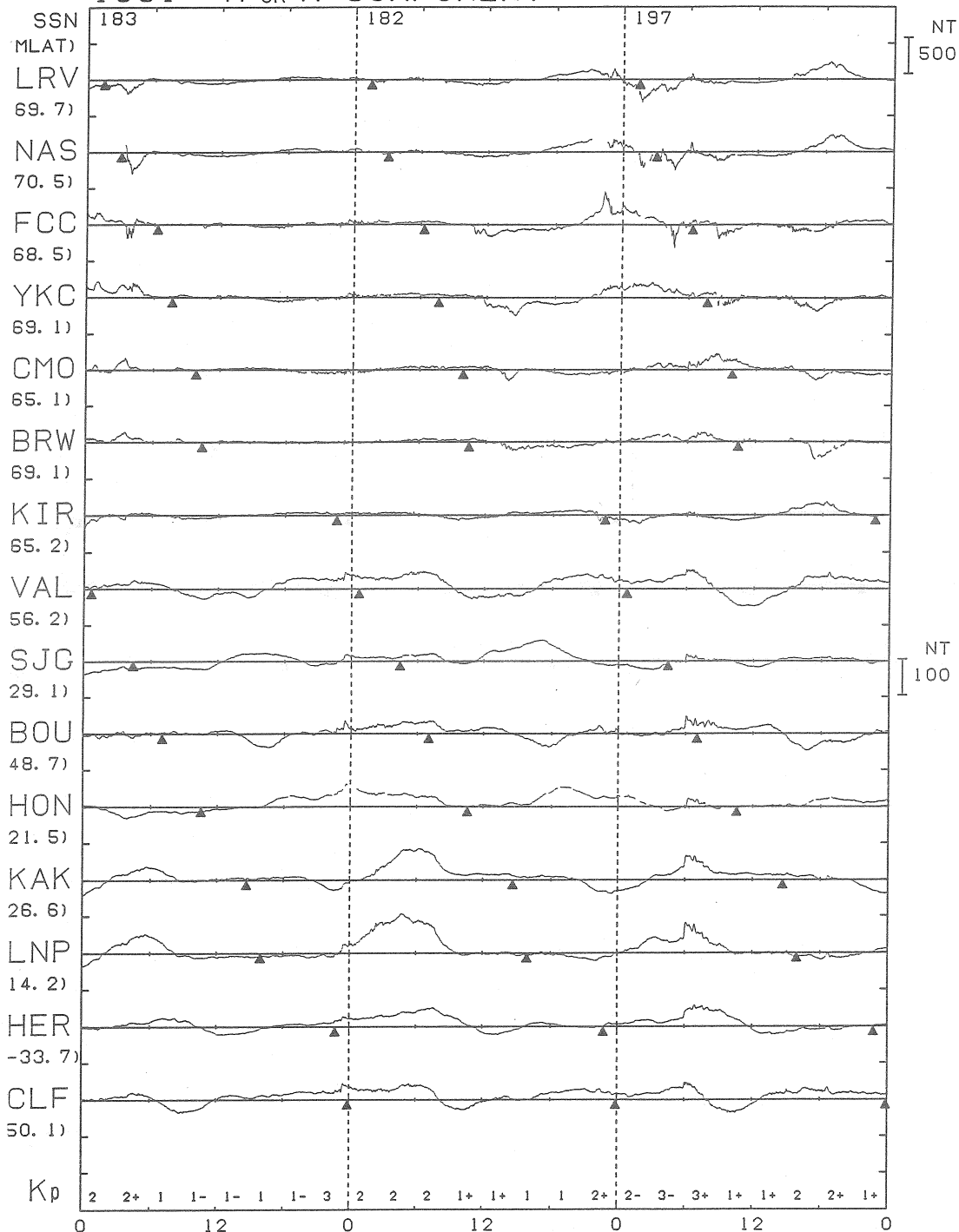
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1991 H OR X-COMPONENT

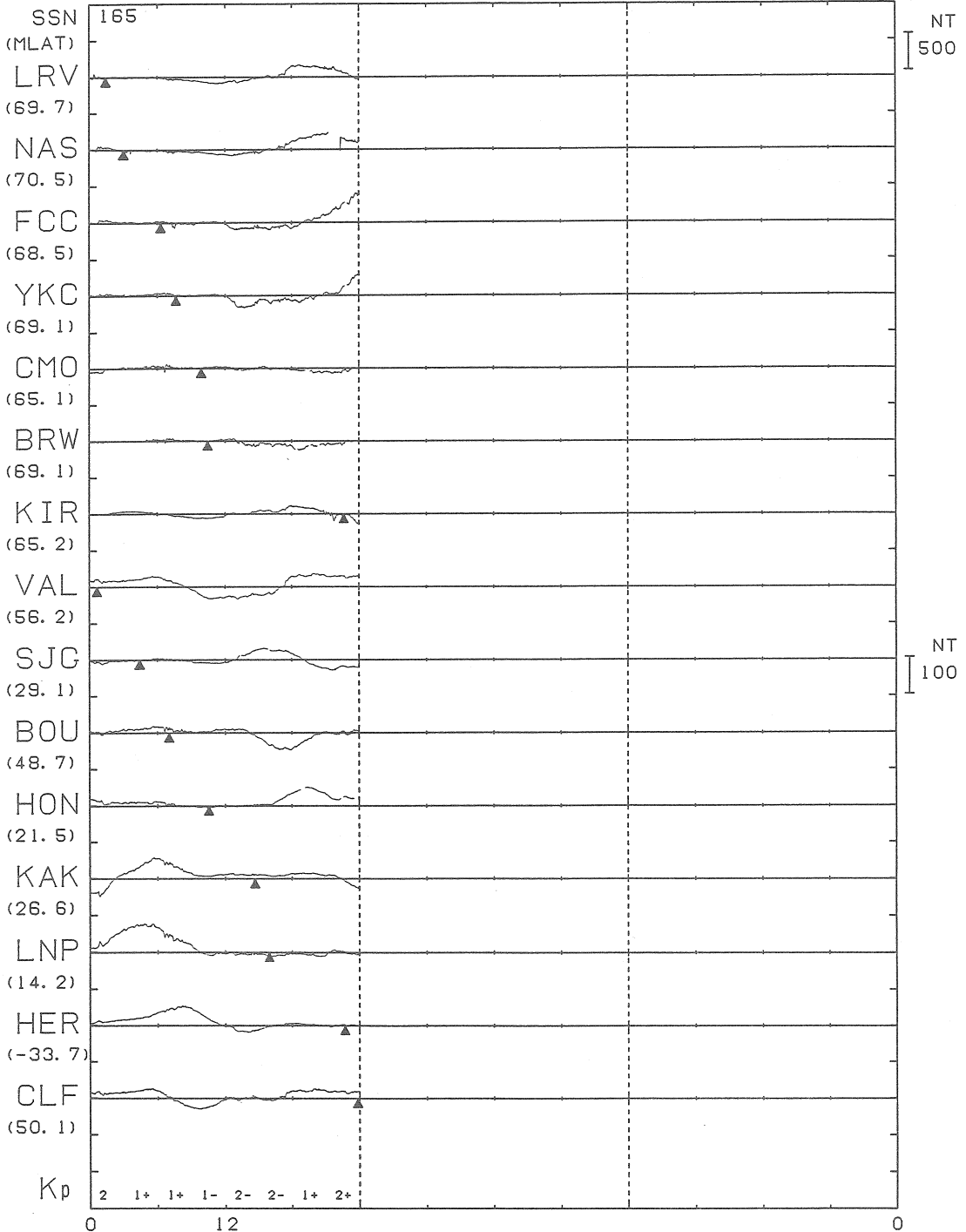
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



JUL 31
(DAY 212)

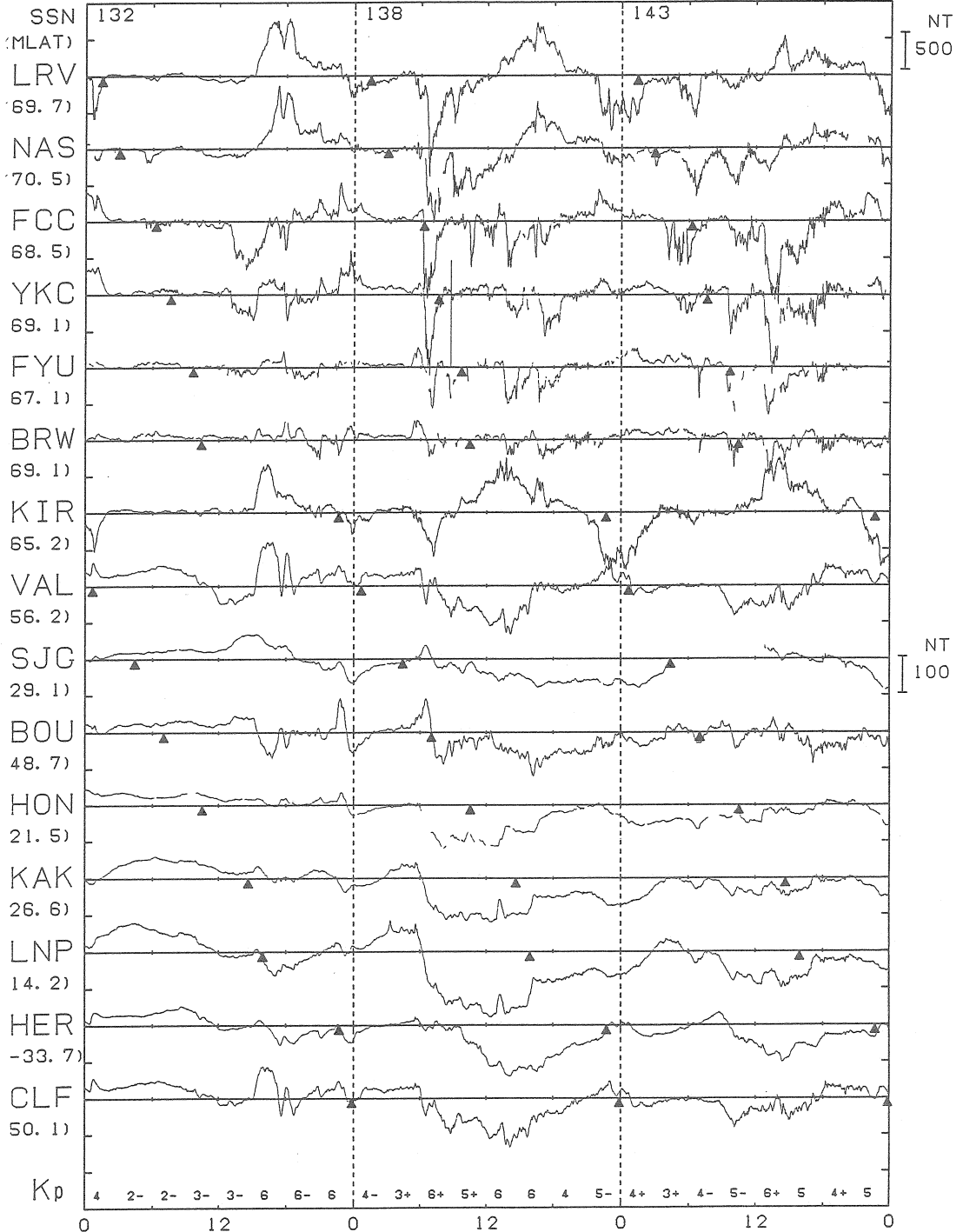
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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AUGUST 1991

(DAY 213 - 243)

1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



AUG 1
(DAY 213)

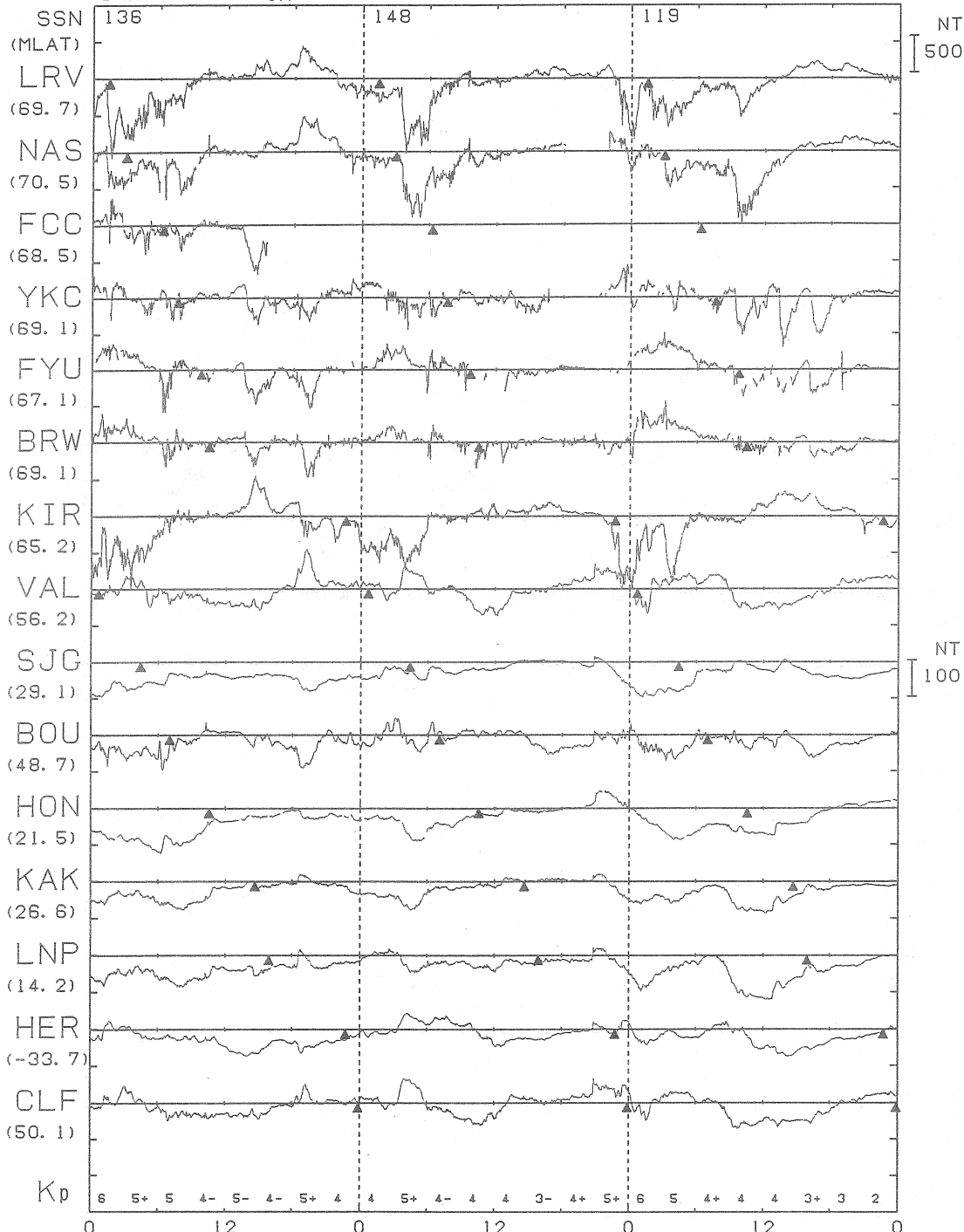
AUG 2
(DAY 214)

AUG 3
(DAY 215)

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

▲ : LOCAL MIDNIGHT



AUG 4
(DAY 216)

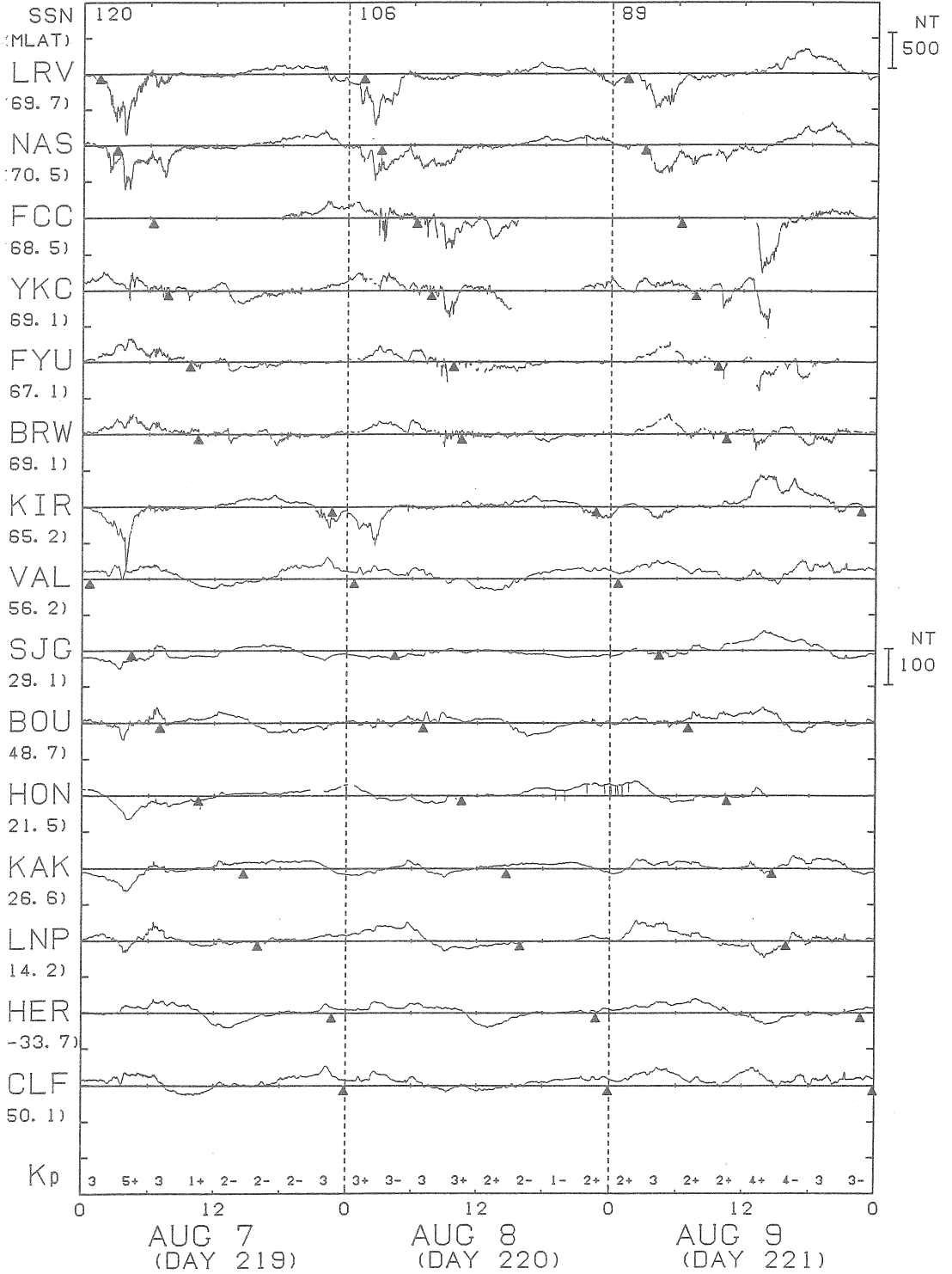
AUG 5
(DAY 217)

AUG 6
(DAY 218)

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

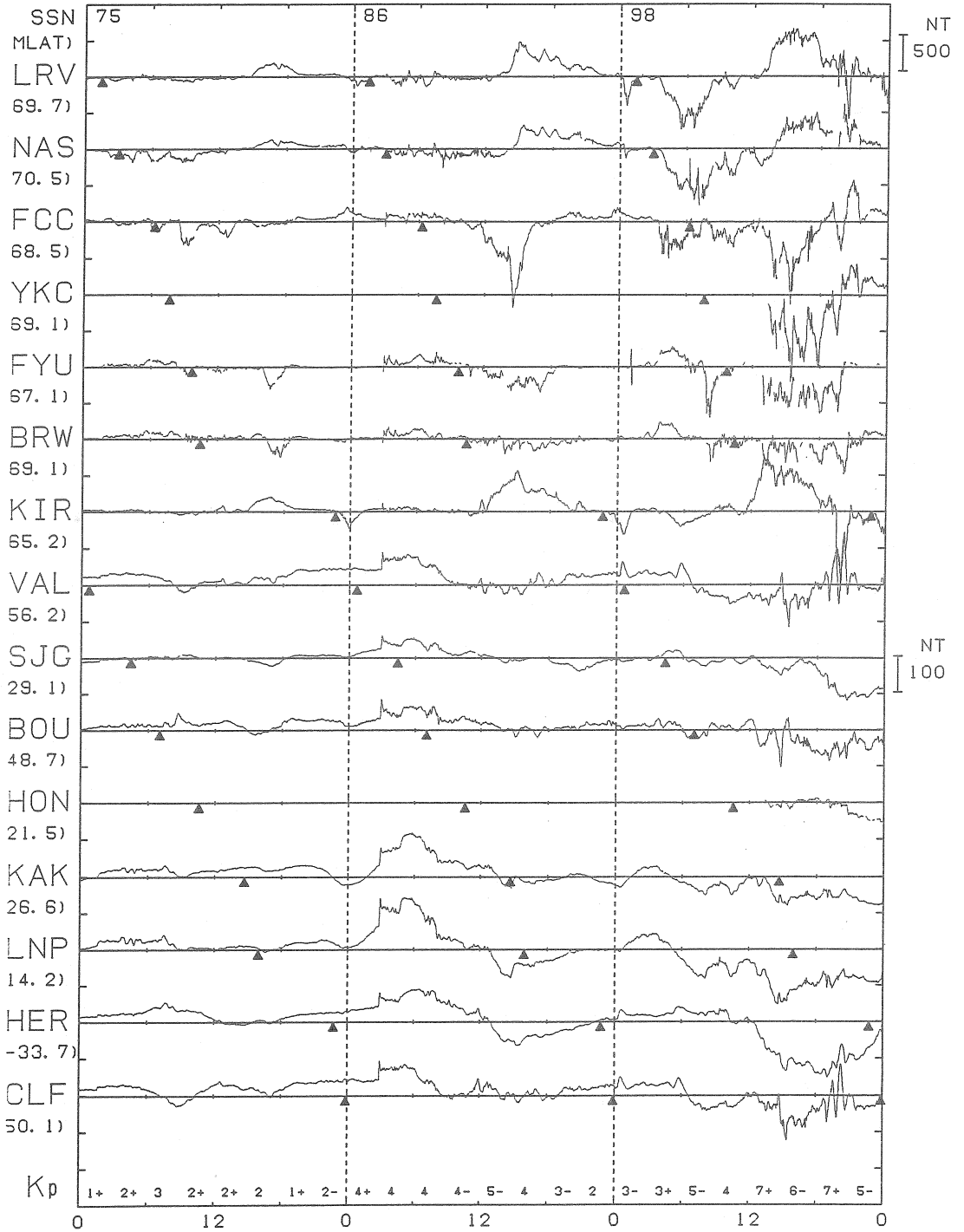
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



AUG 10
(DAY 222)

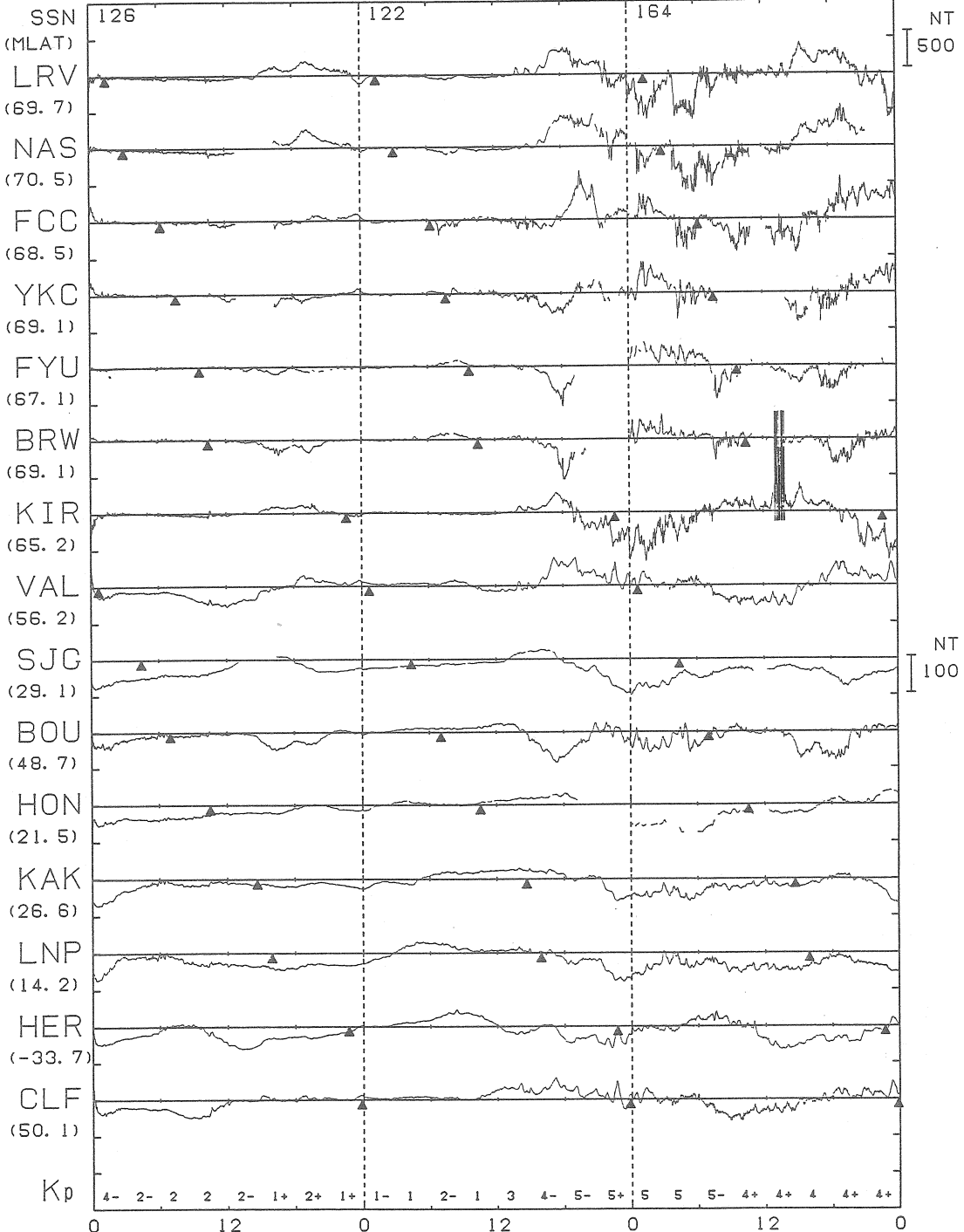
AUG 11
(DAY 223)

AUG 12
(DAY 224)

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

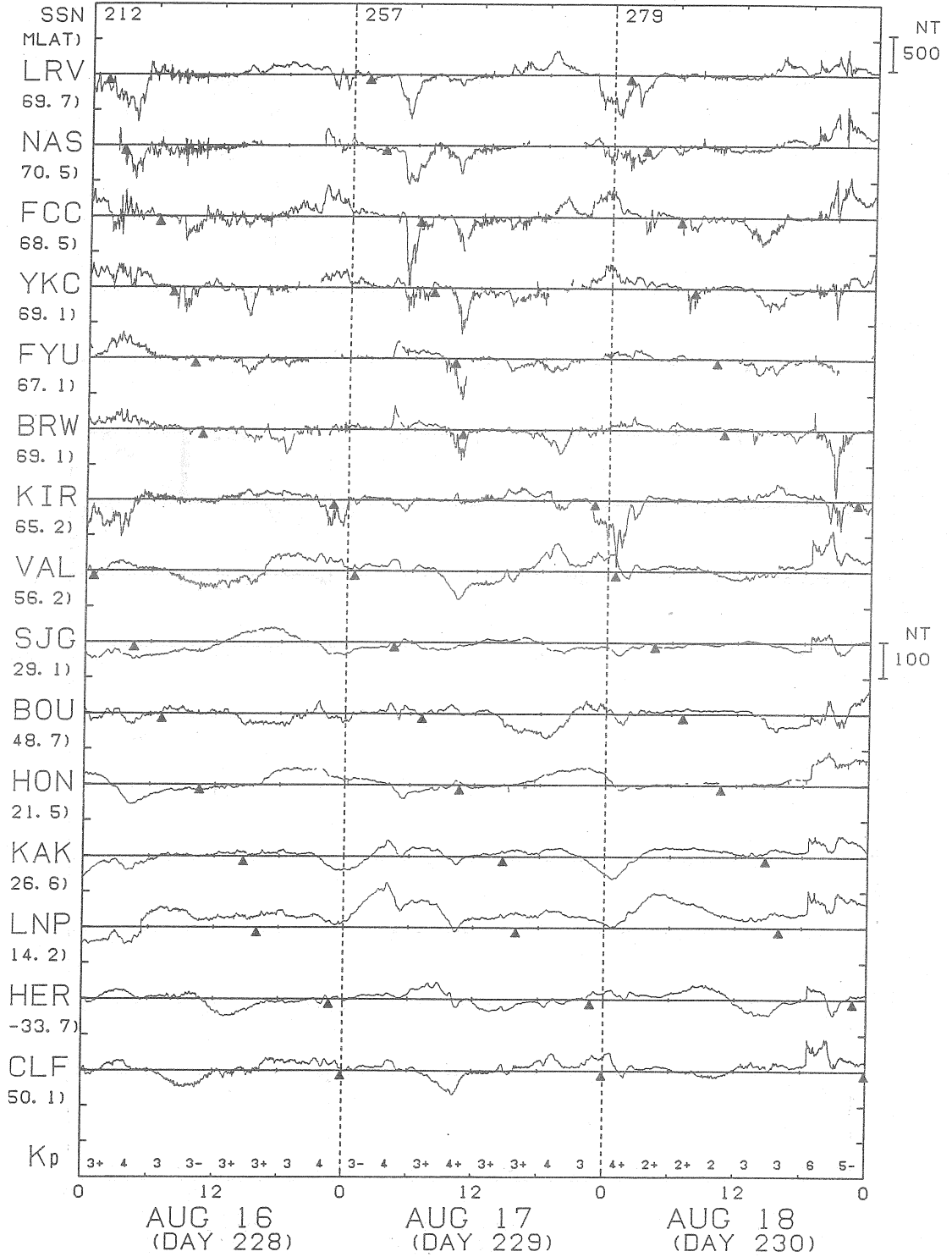
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

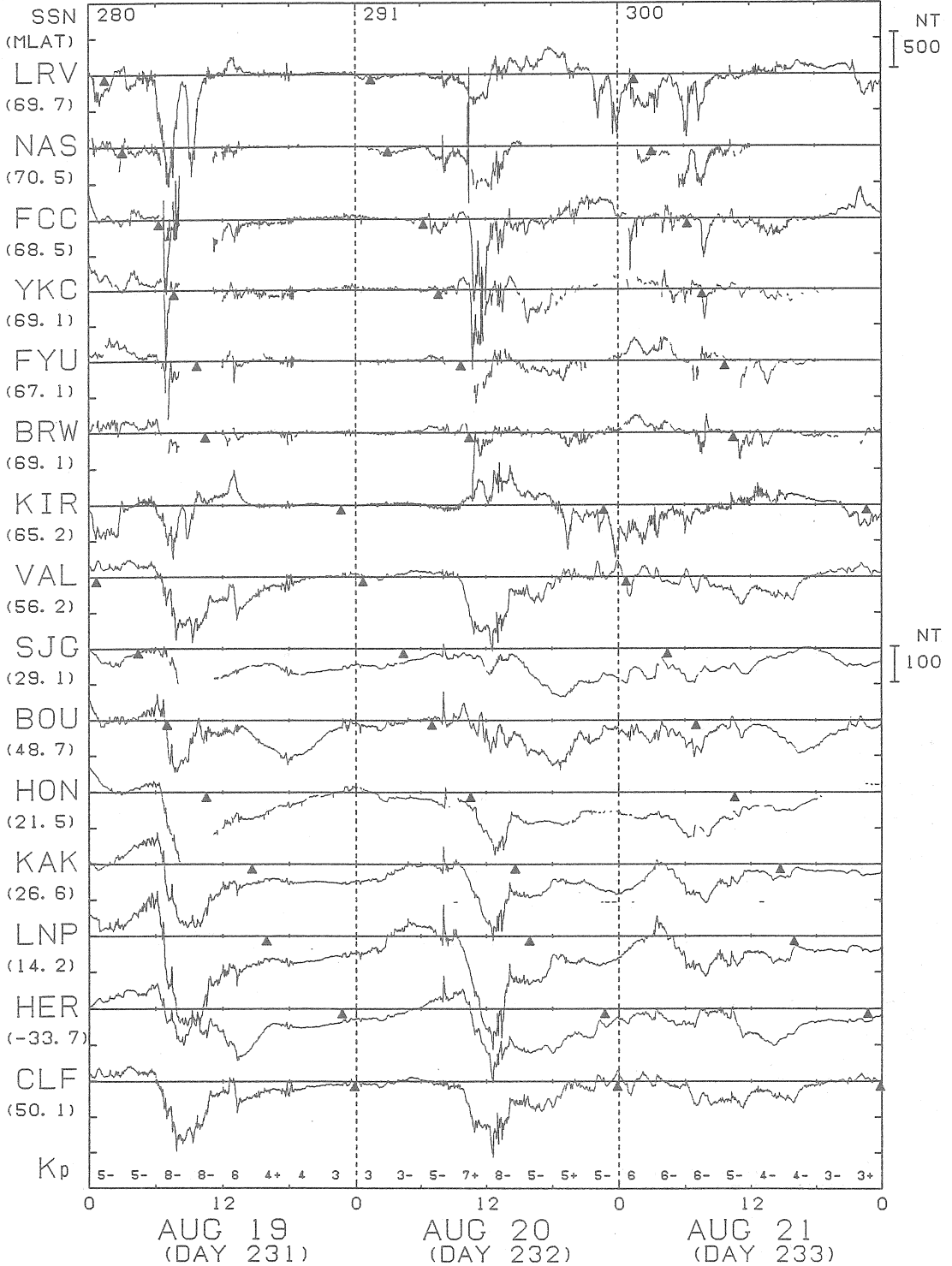
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

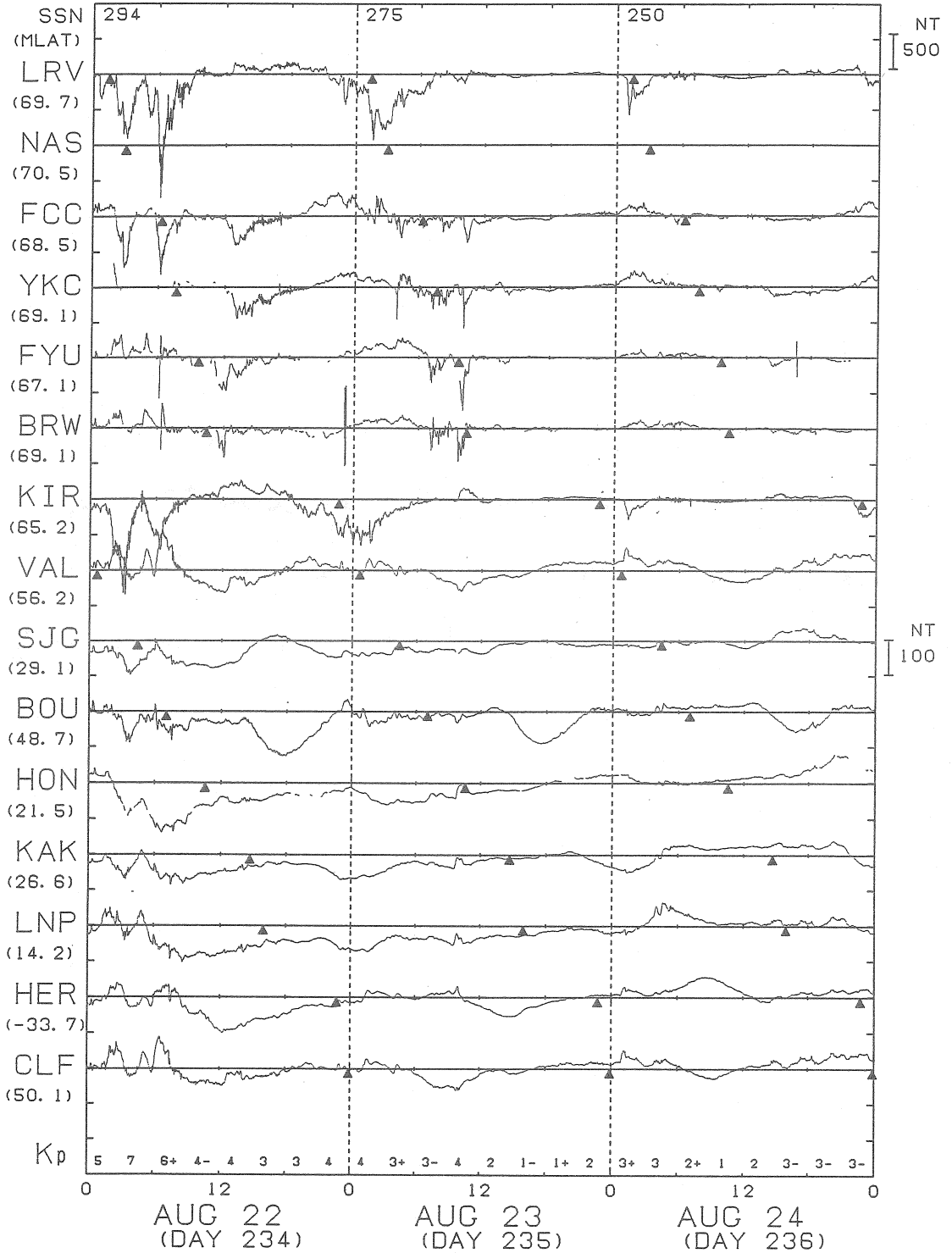
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

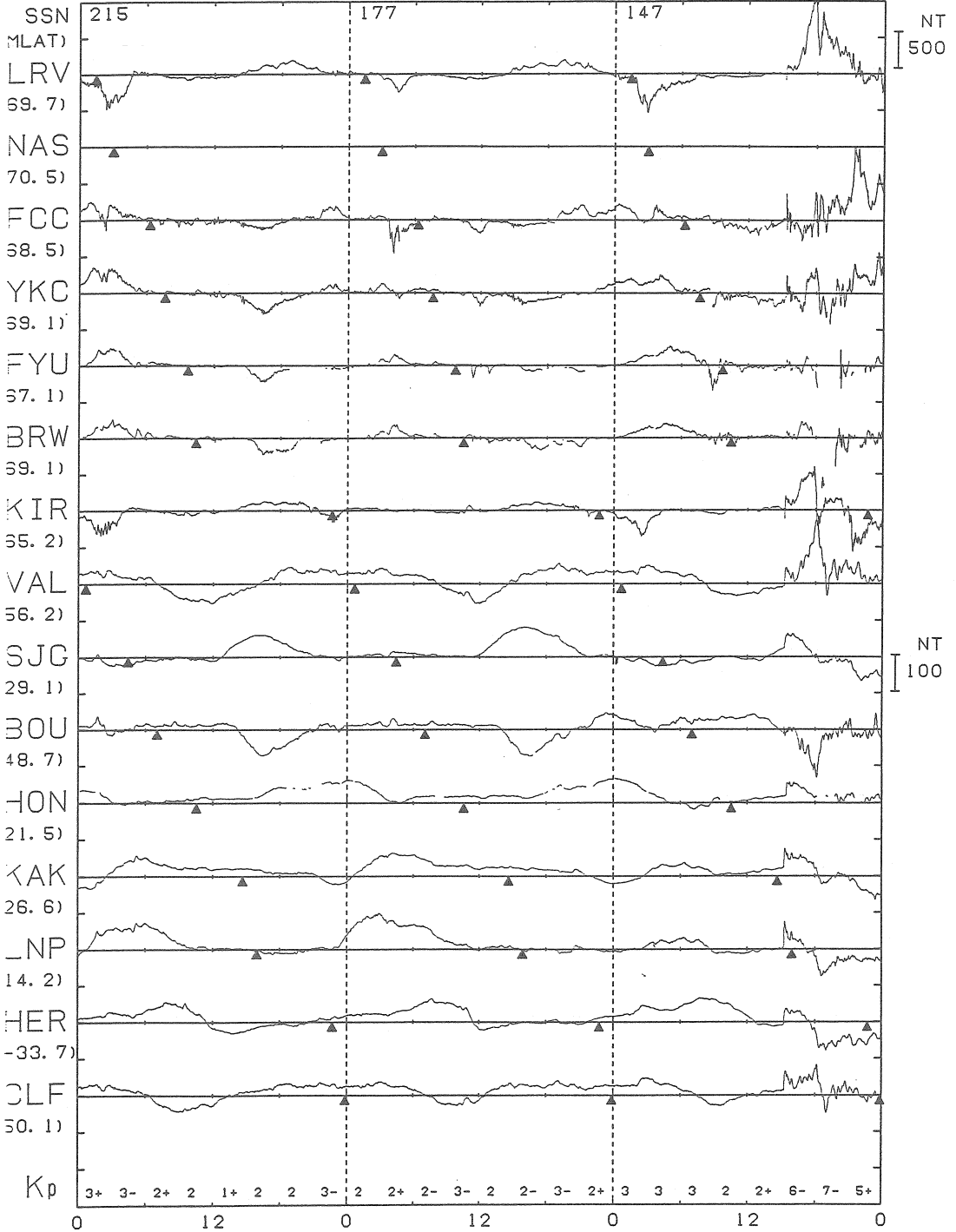
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

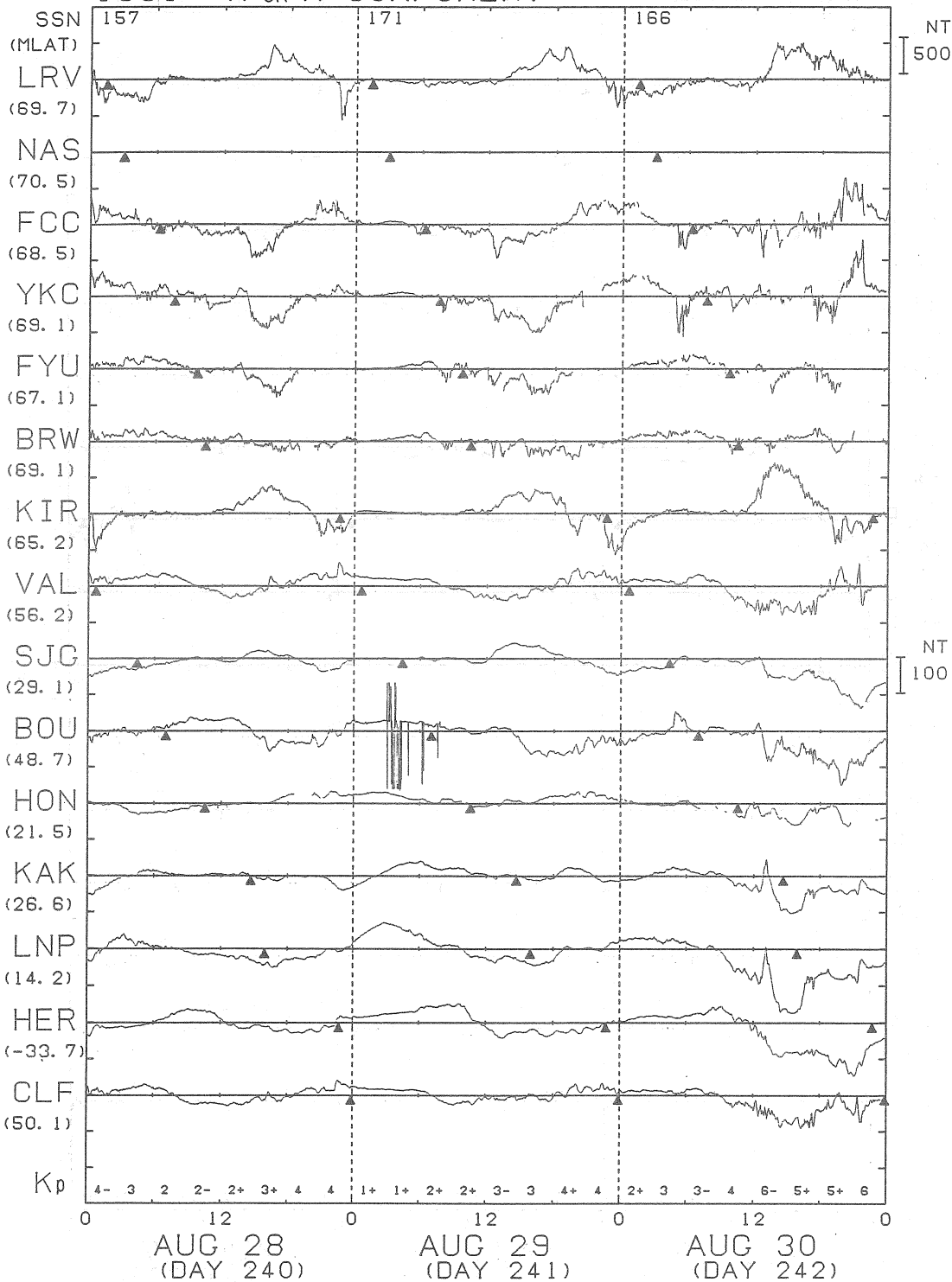
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

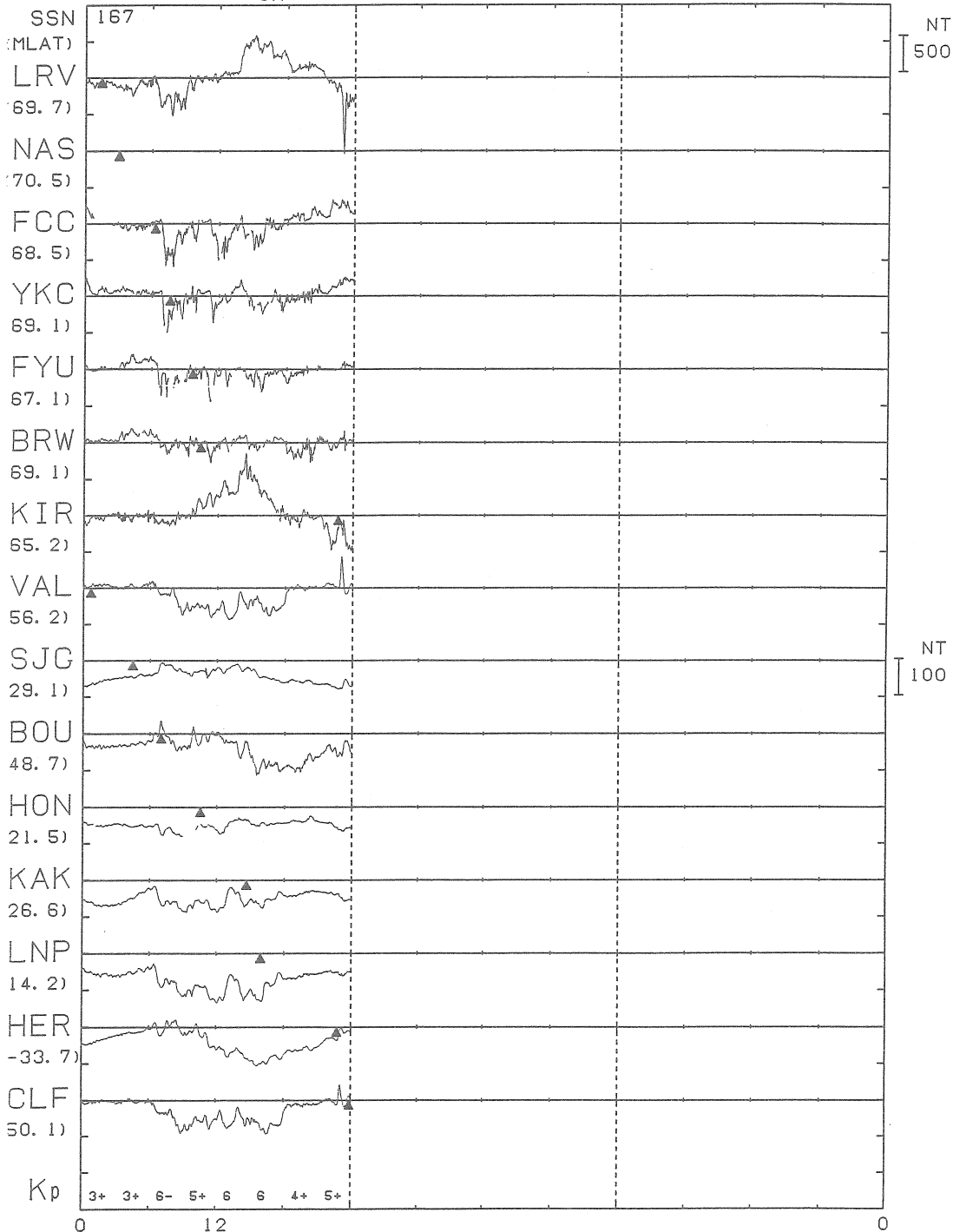
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



AUG 31
(DAY 243)

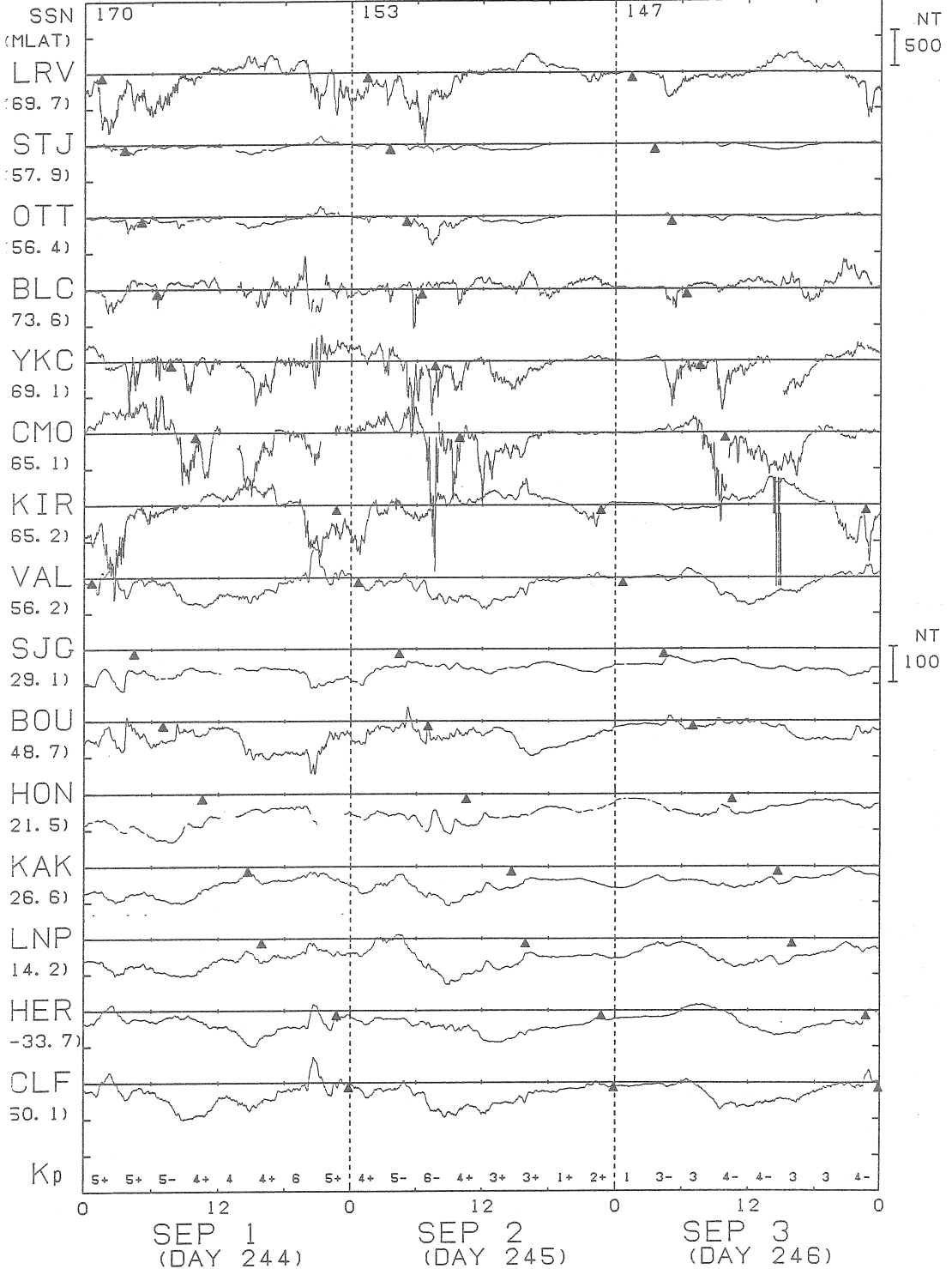
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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SEPTEMBER 1991

(DAY 244 - 273)

1991 H OR X-COMPONENT

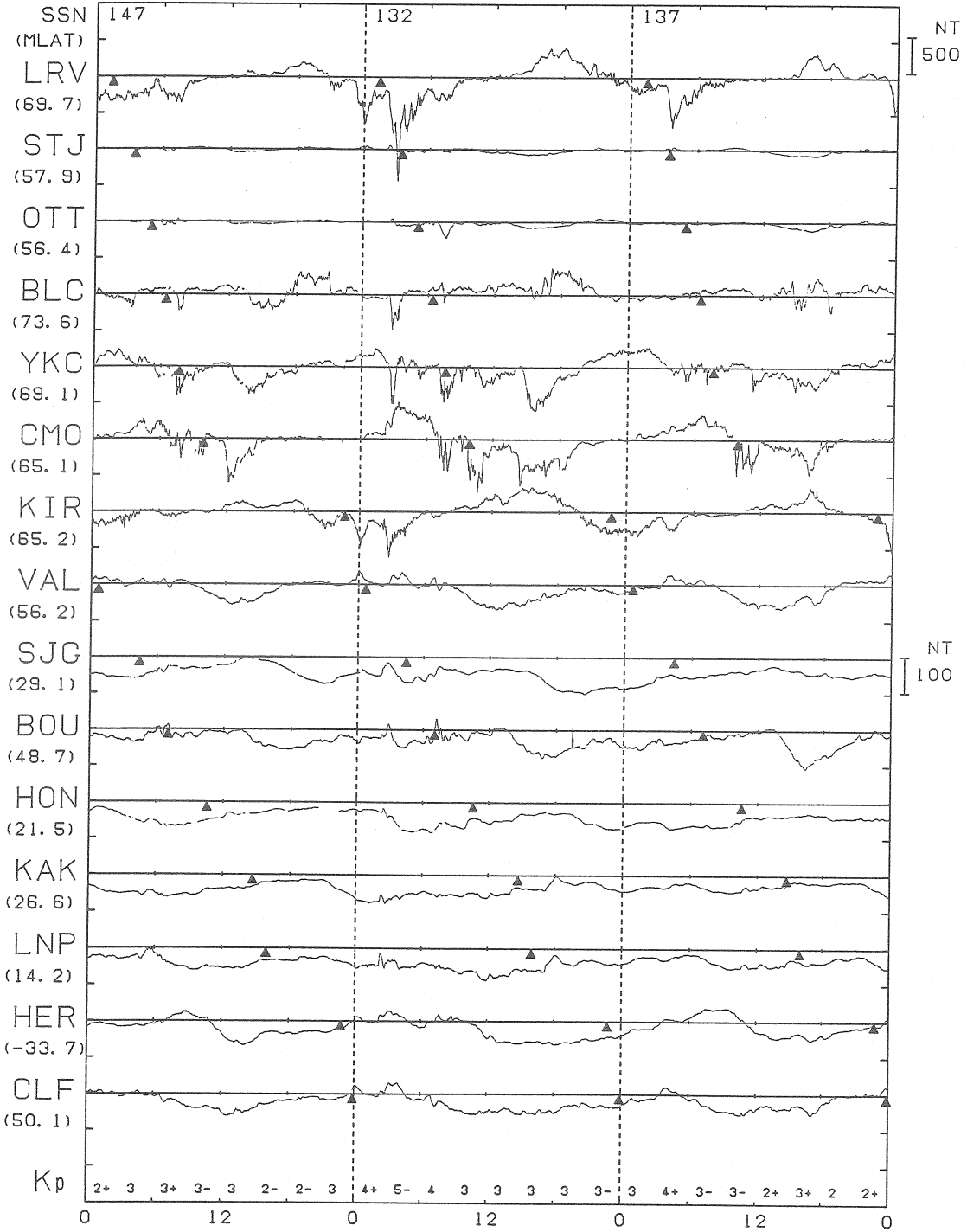
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

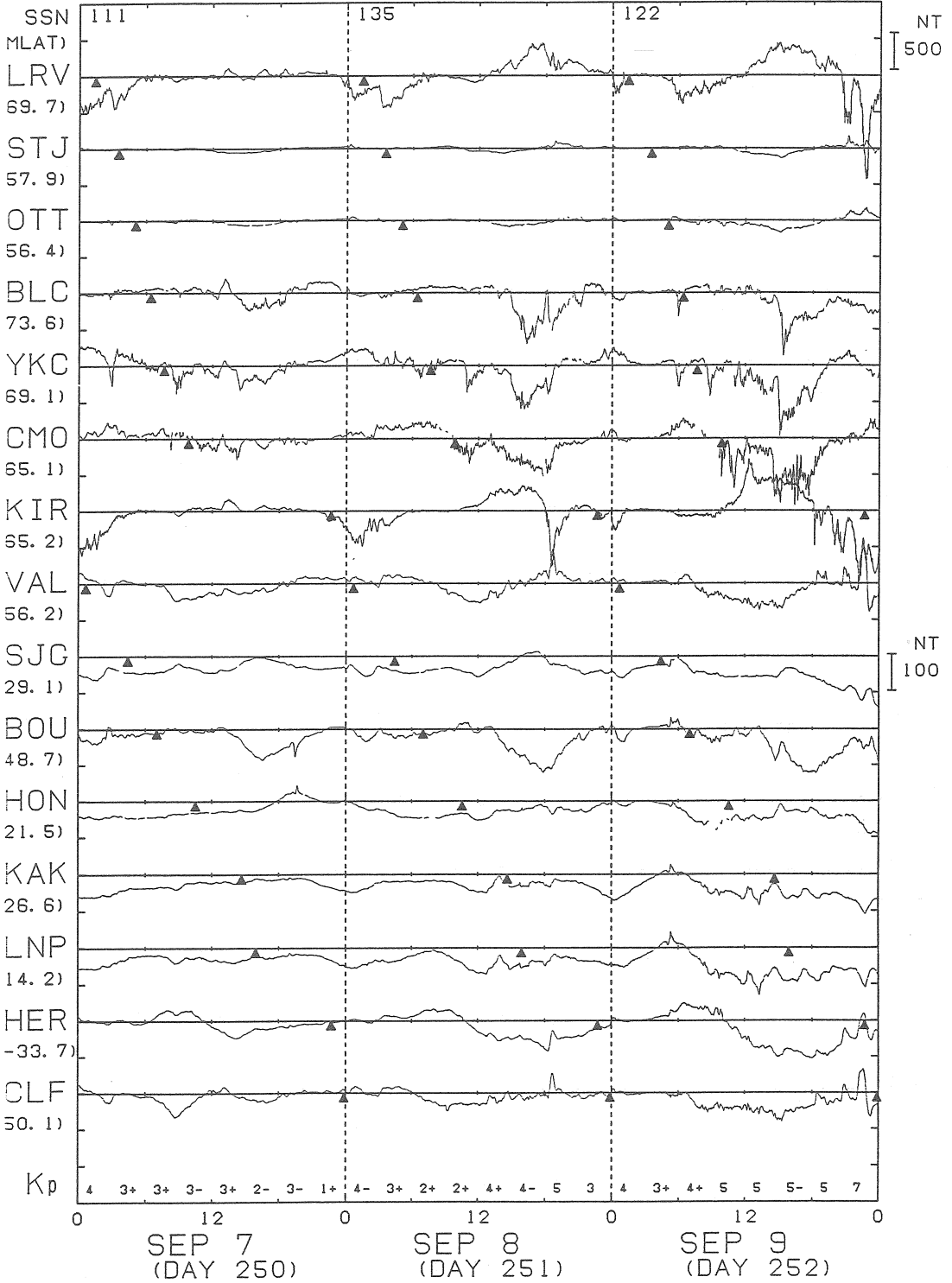
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

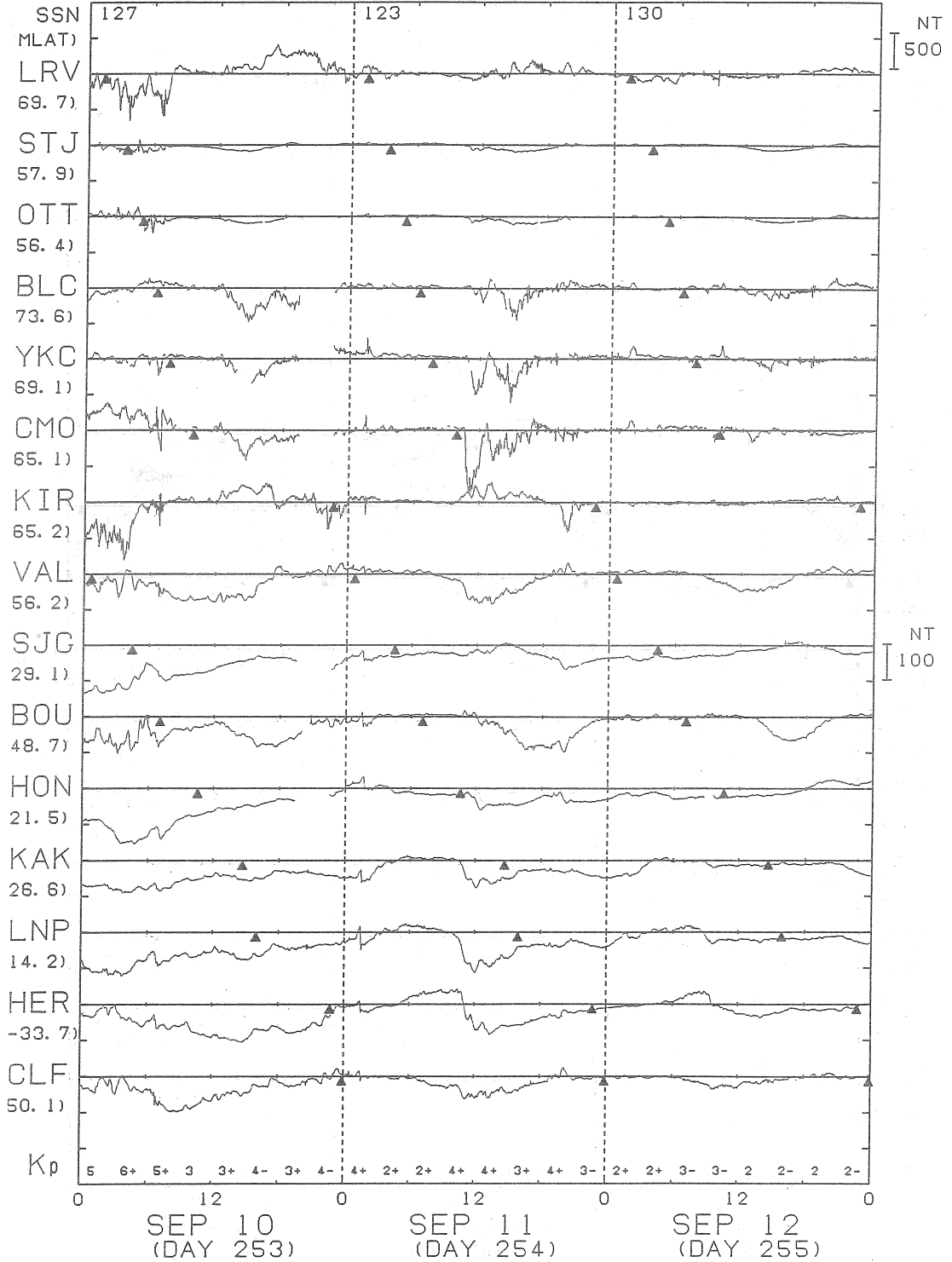
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

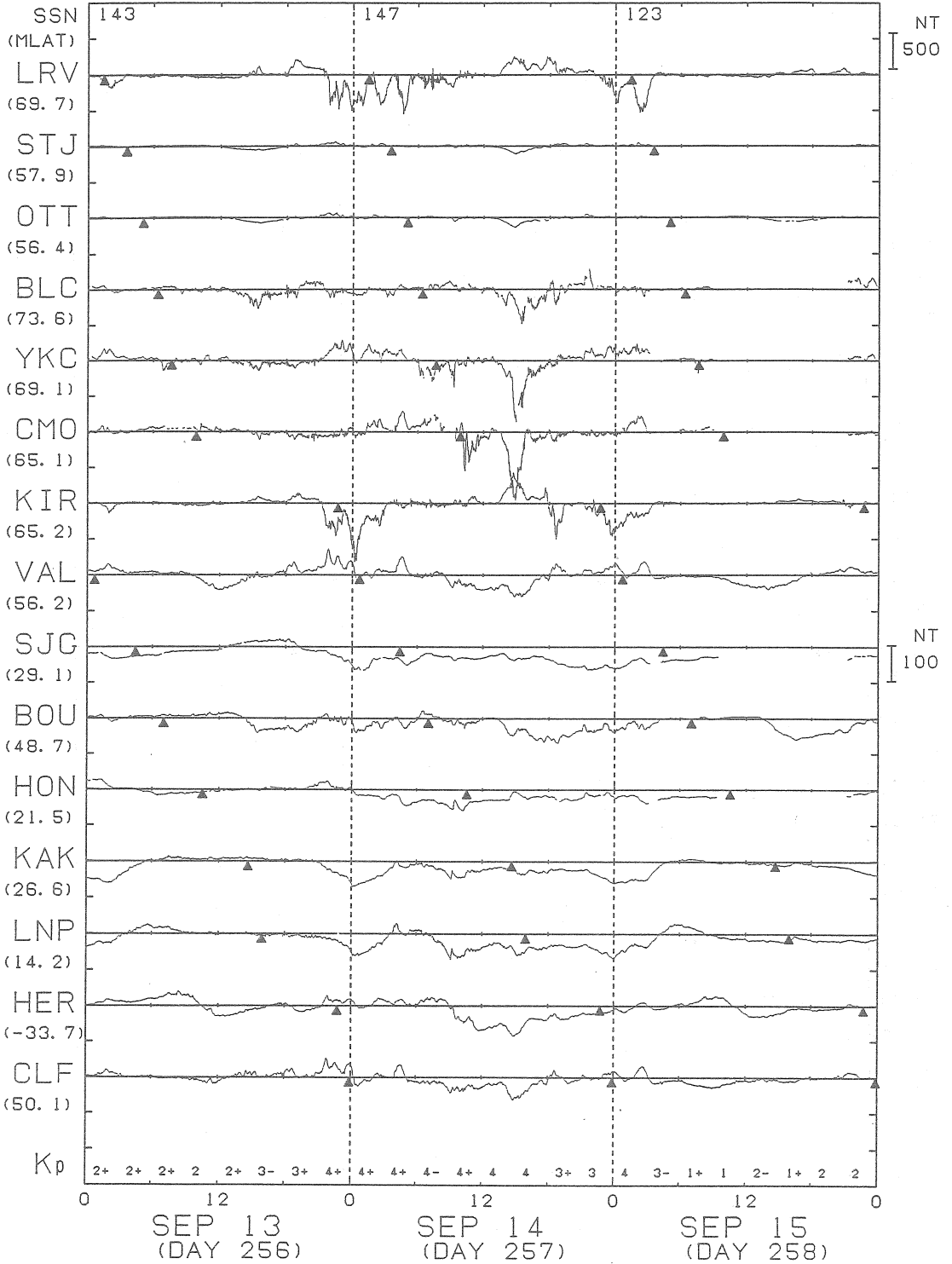
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

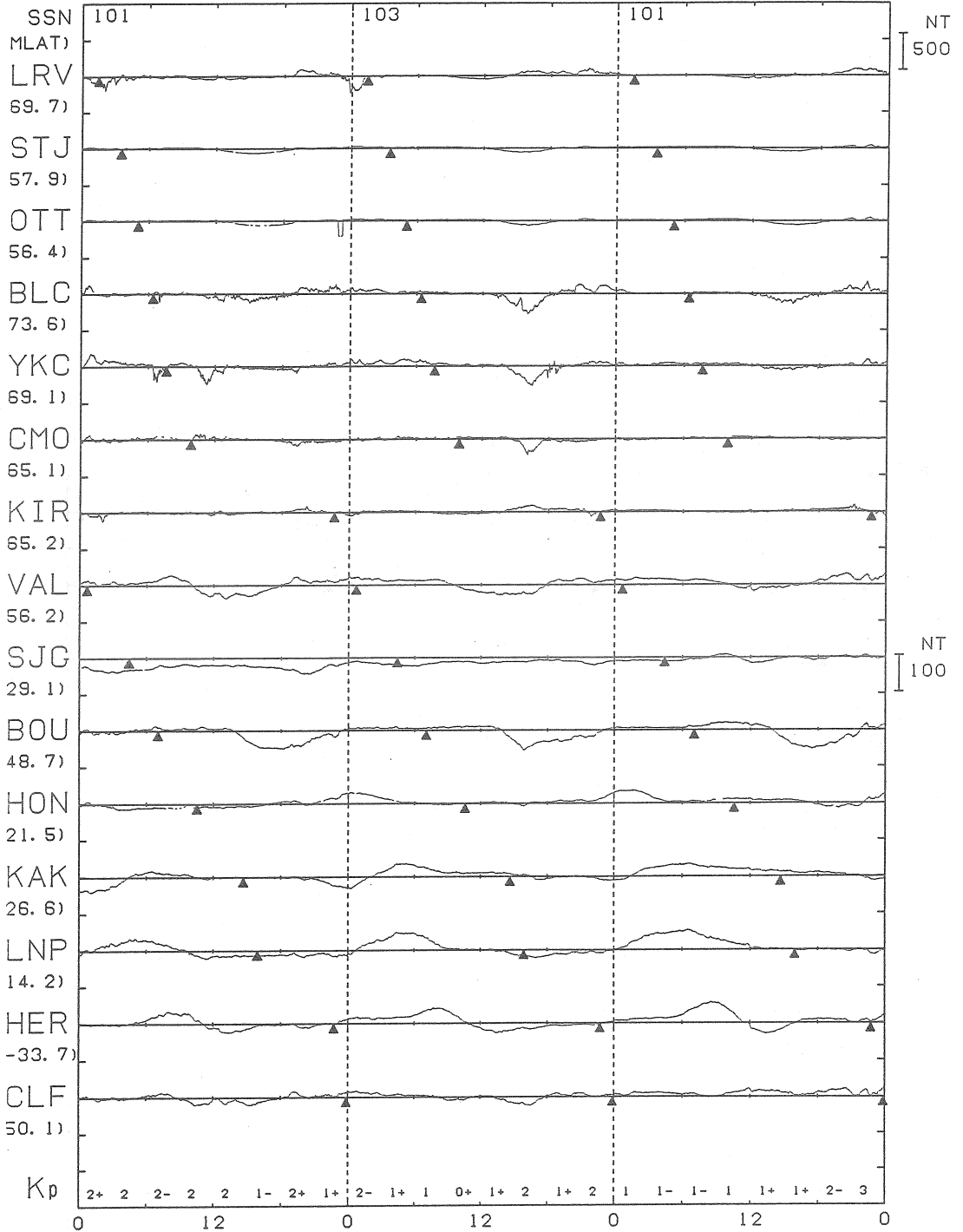
▲ : LOCAL MIDNIGHT



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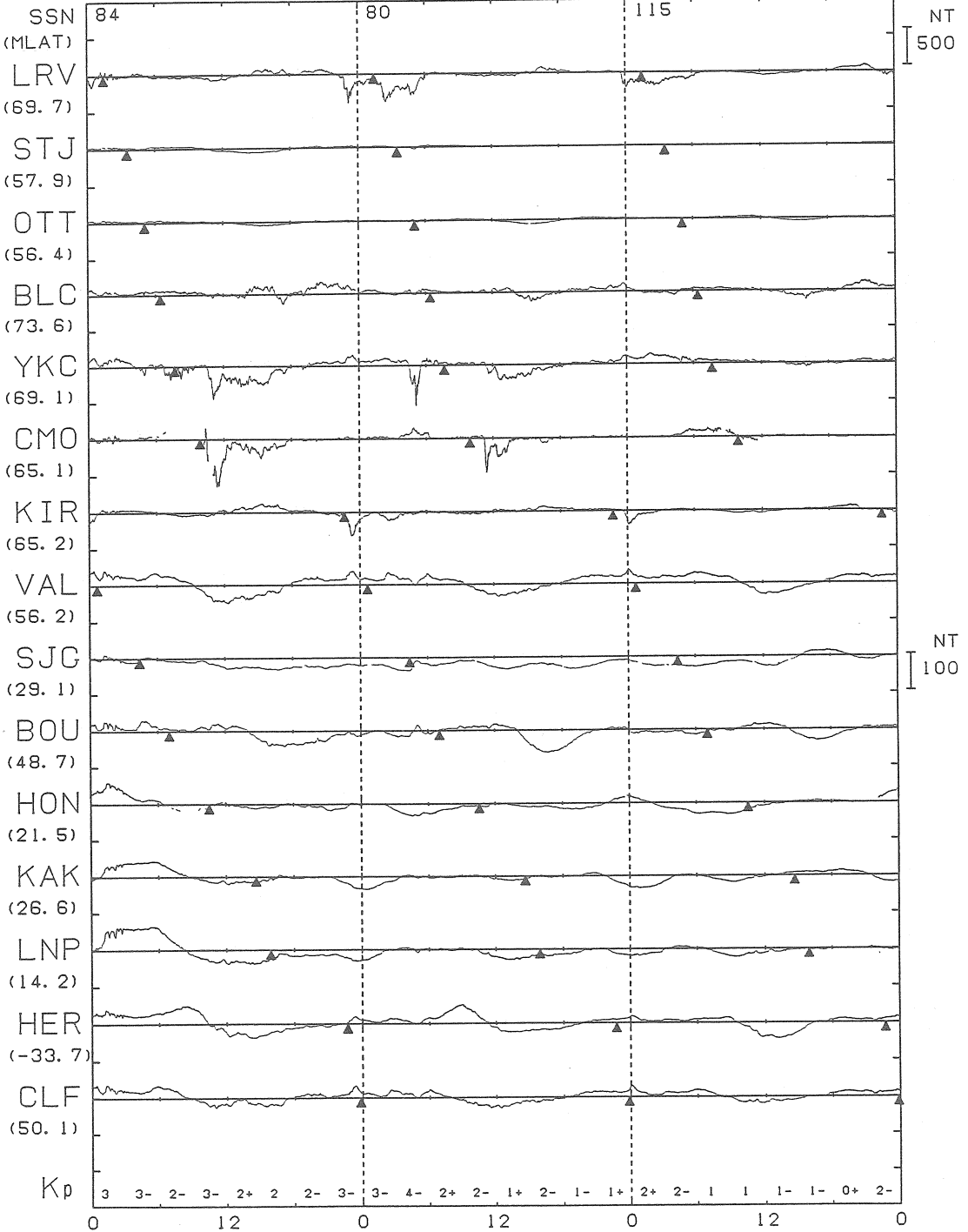
1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

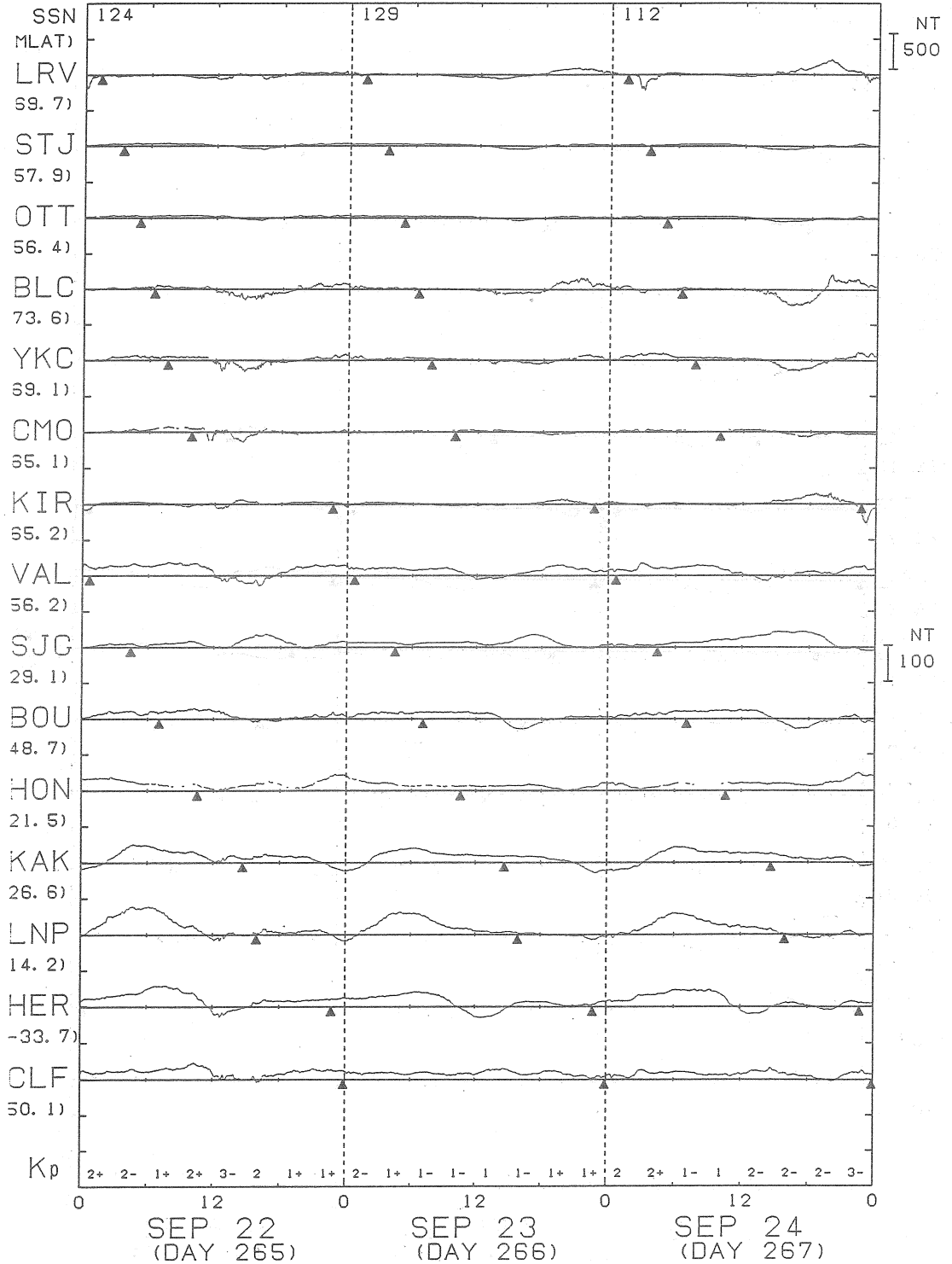


SEP 19 (DAY 262) SEP 20 (DAY 263) SEP 21 (DAY 264)

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1991 H OR X-COMPONENT

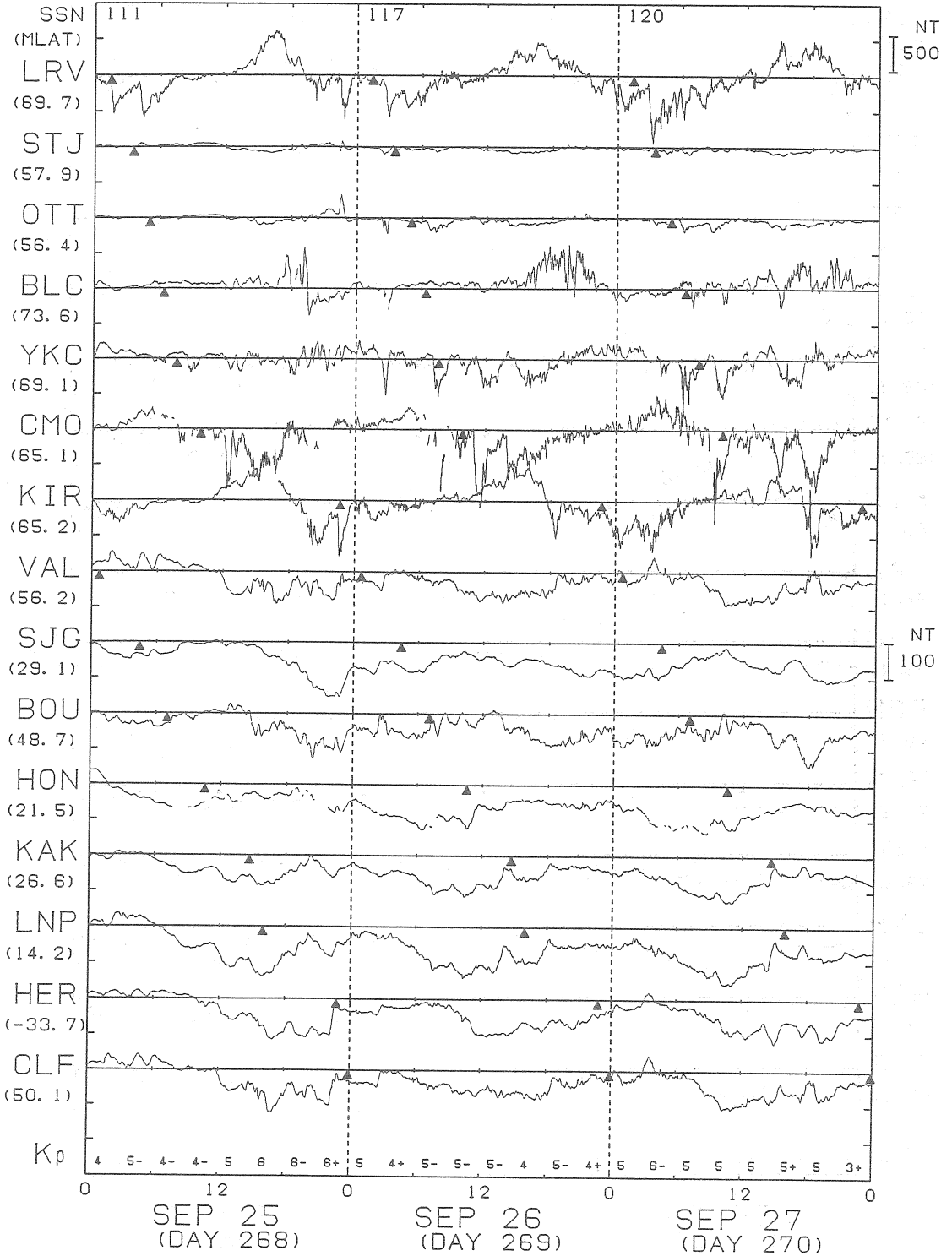
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

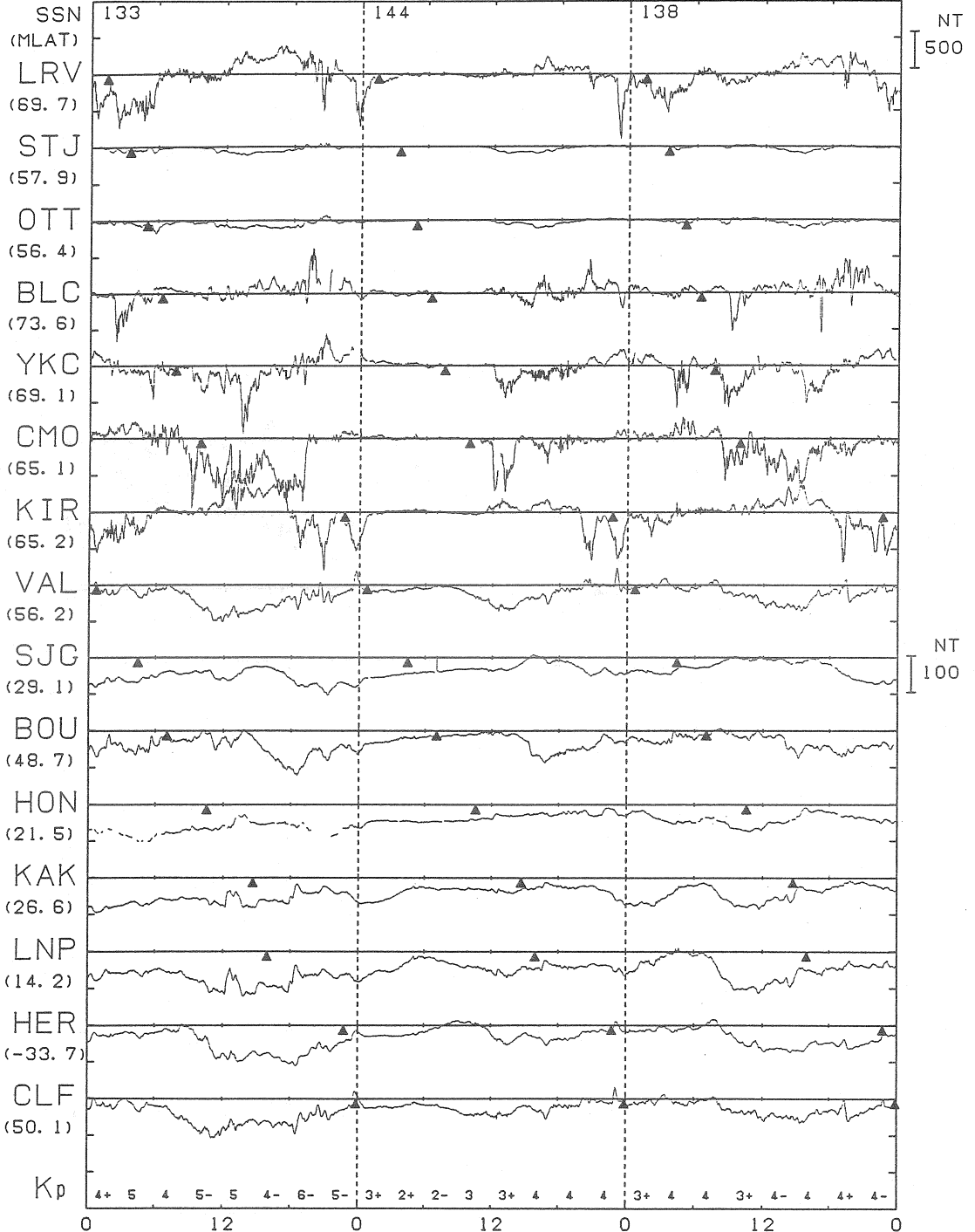
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



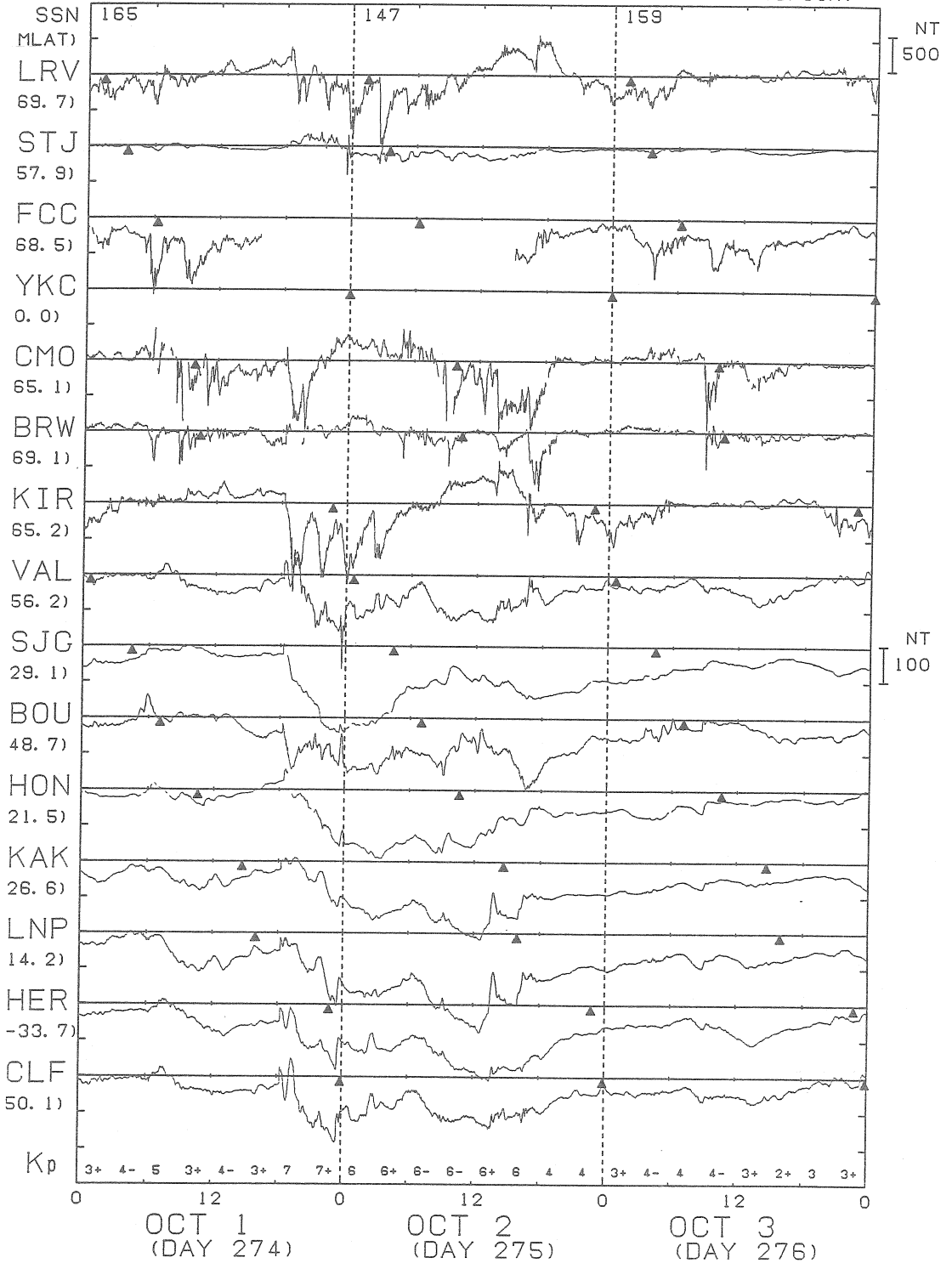
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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OCTOBER 1991

(DAY 274-304)

1991 H OR X-COMPONENT

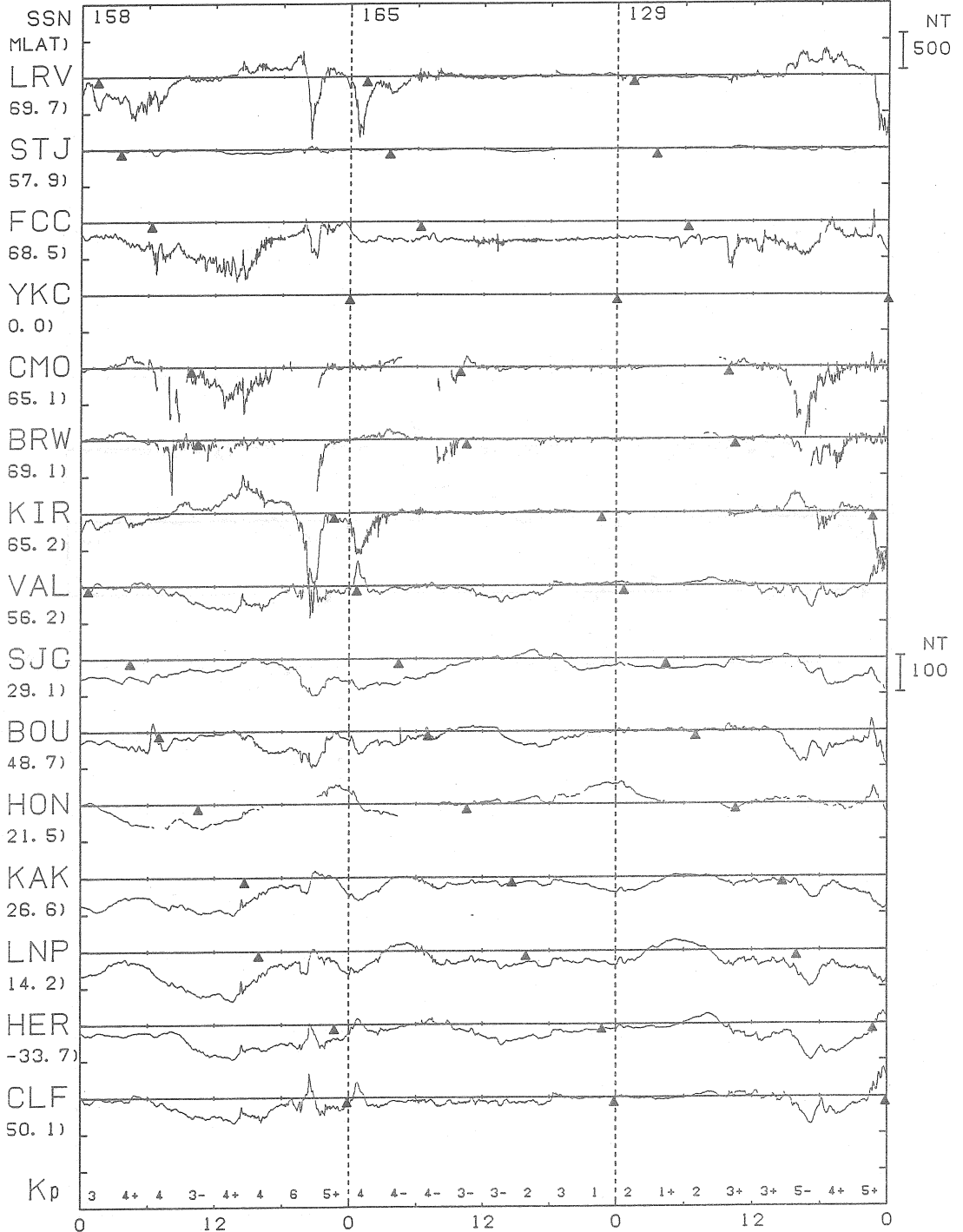
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

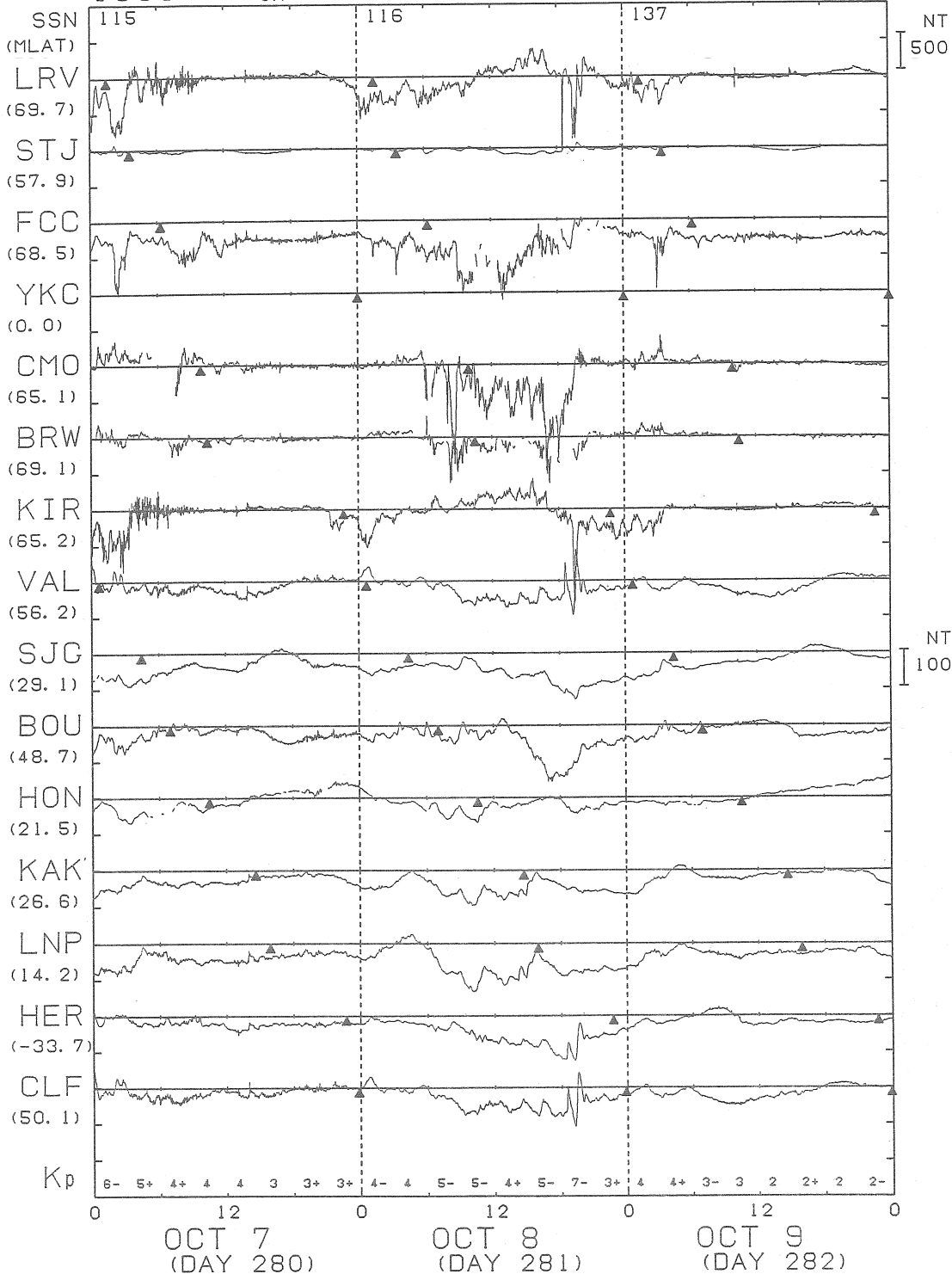
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

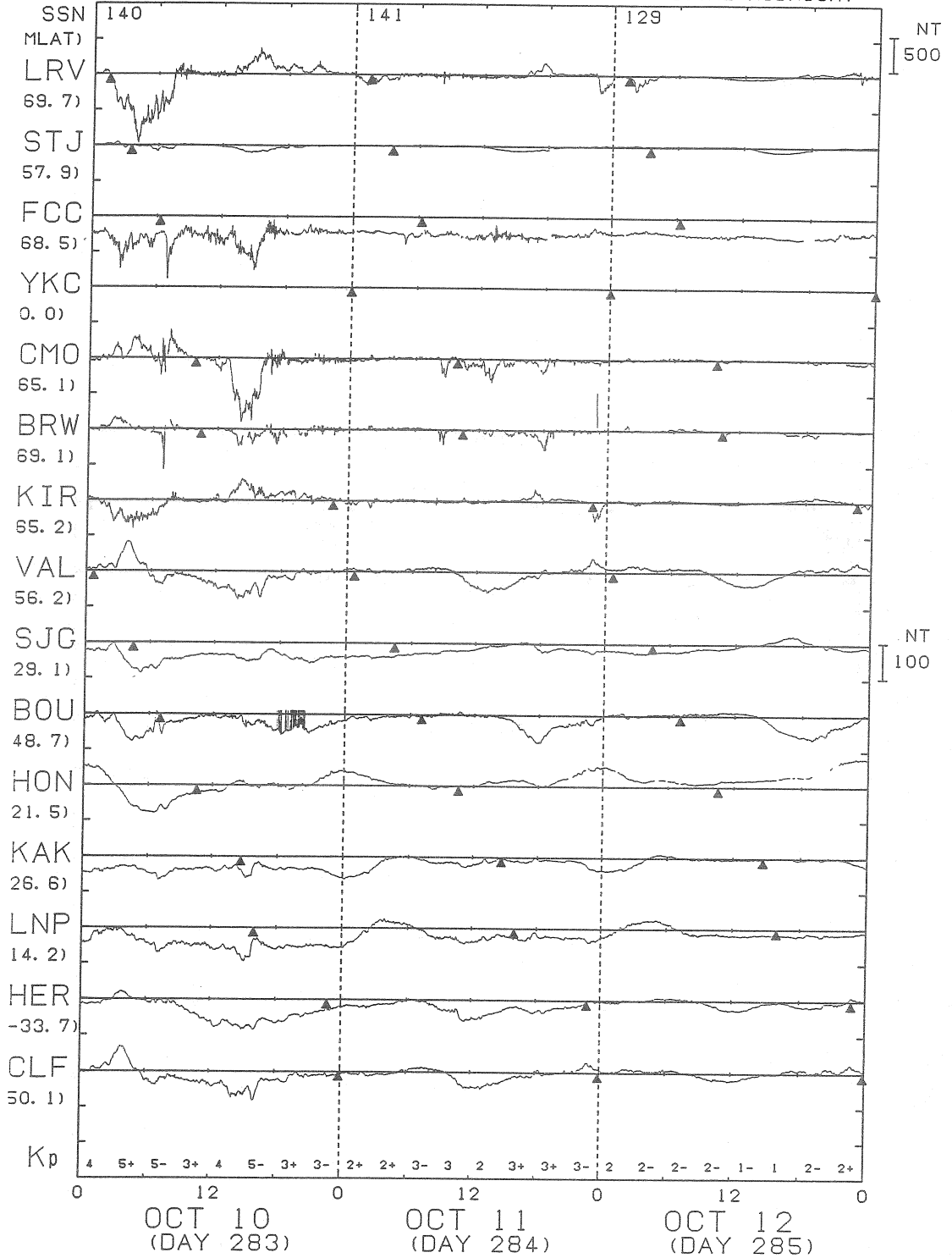
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

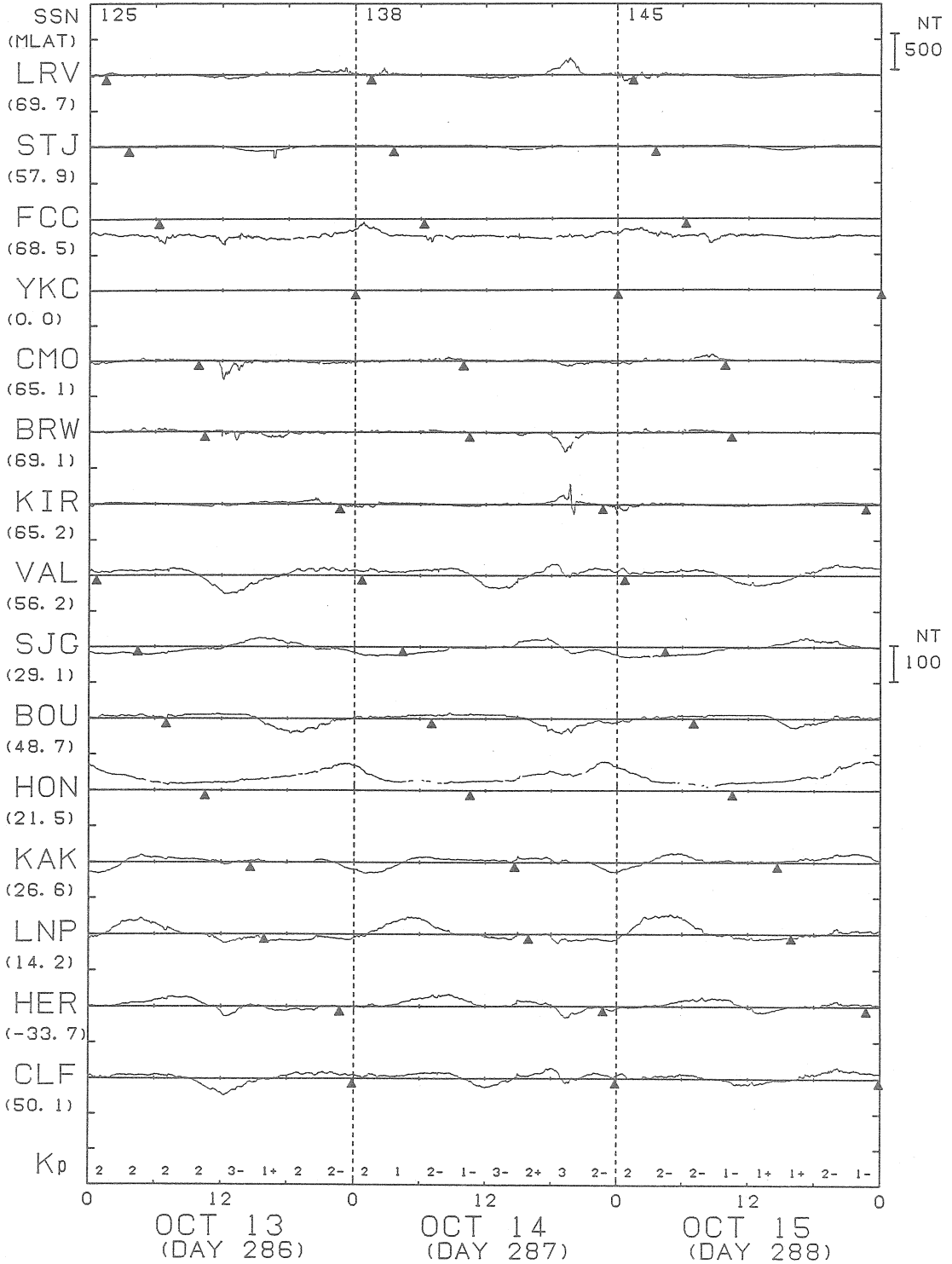
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

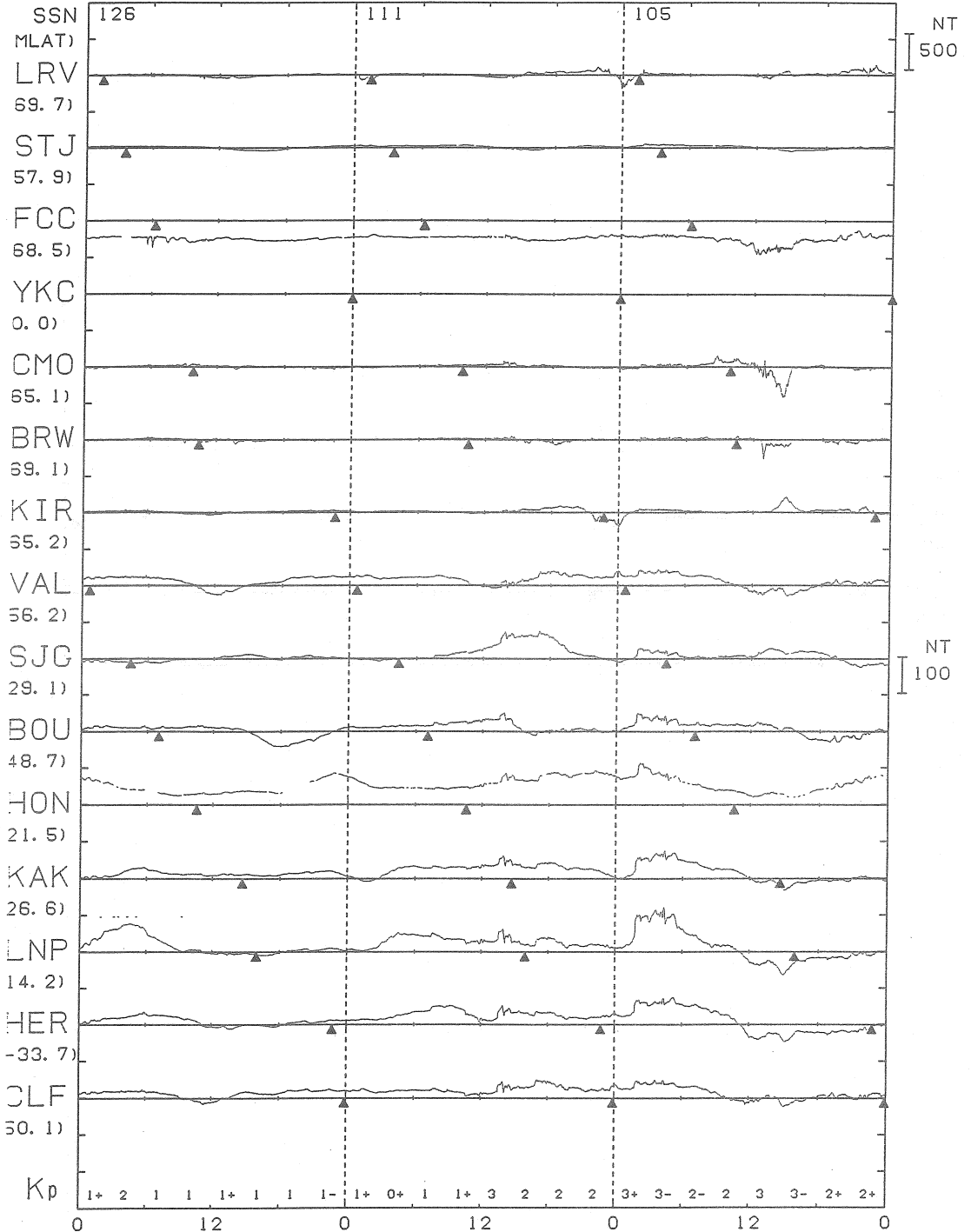
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1991 H OR X-COMPONENT

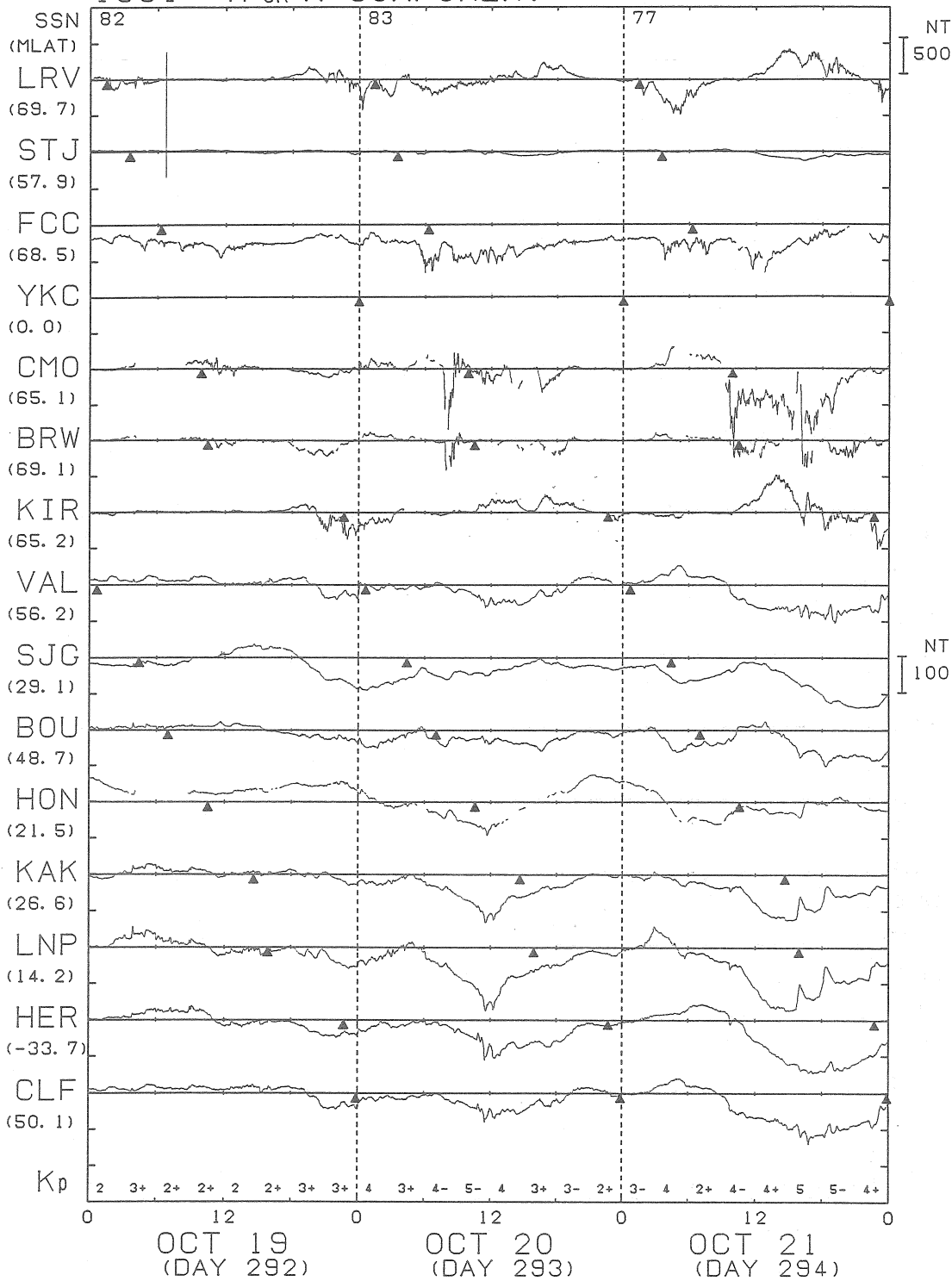
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

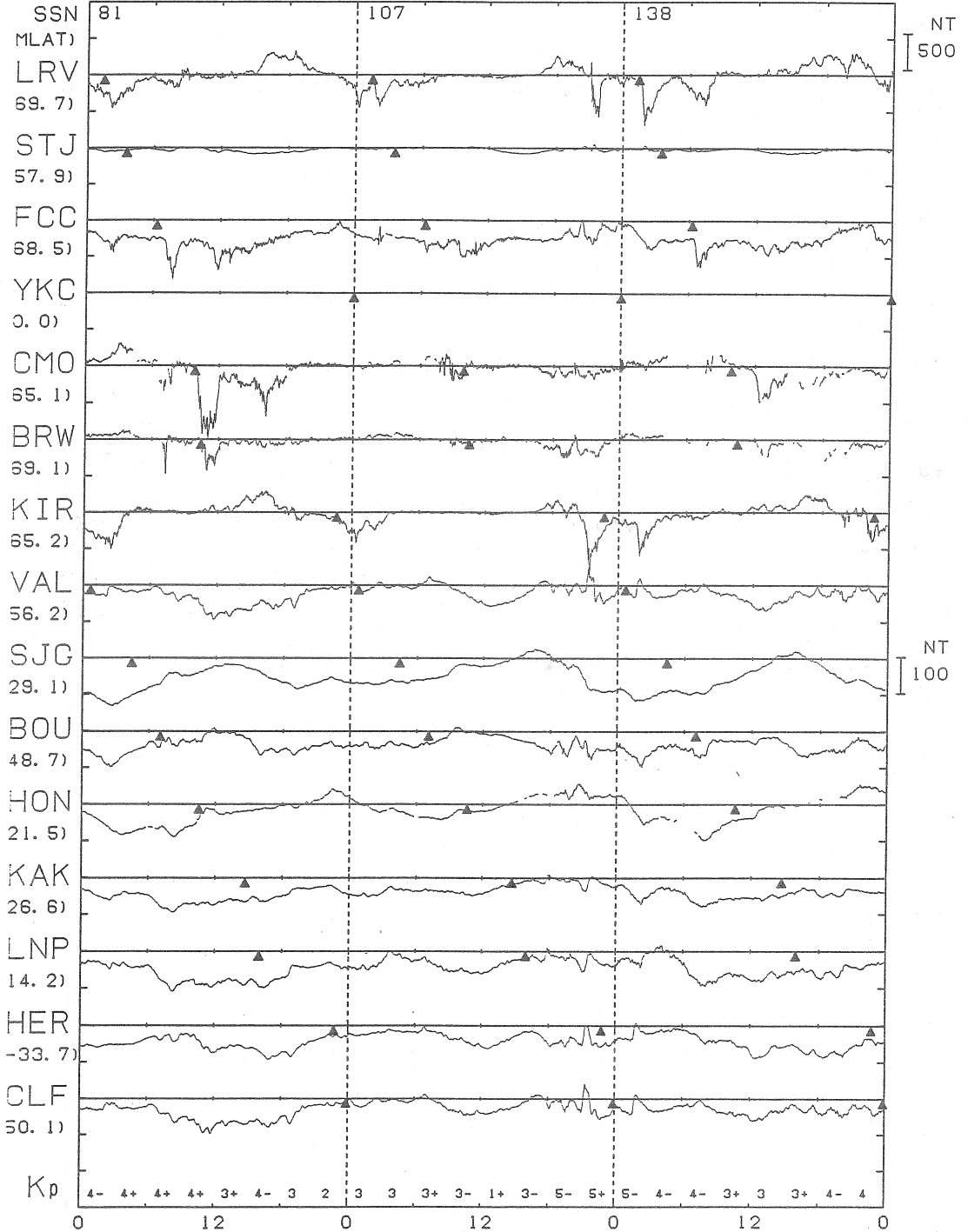
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

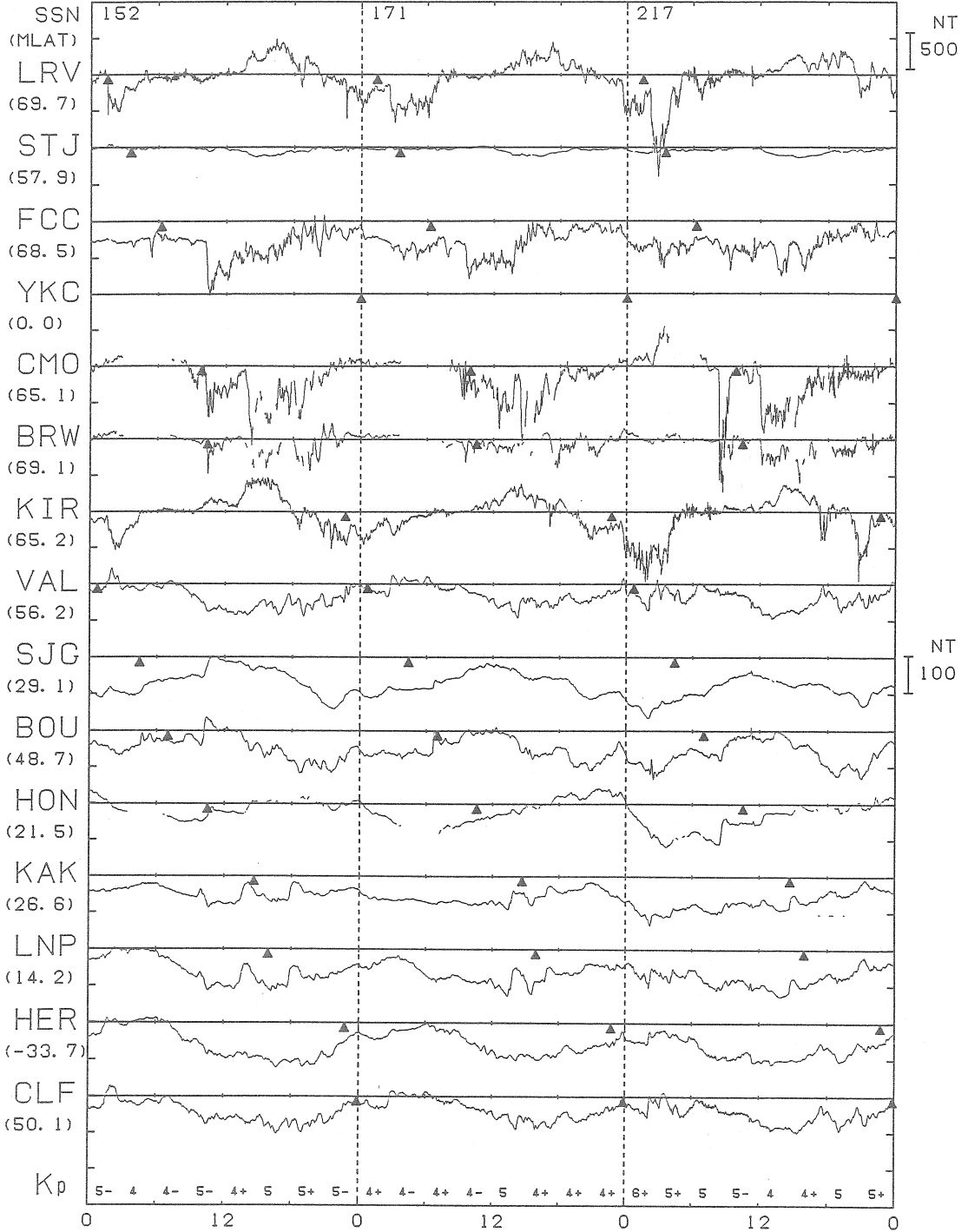
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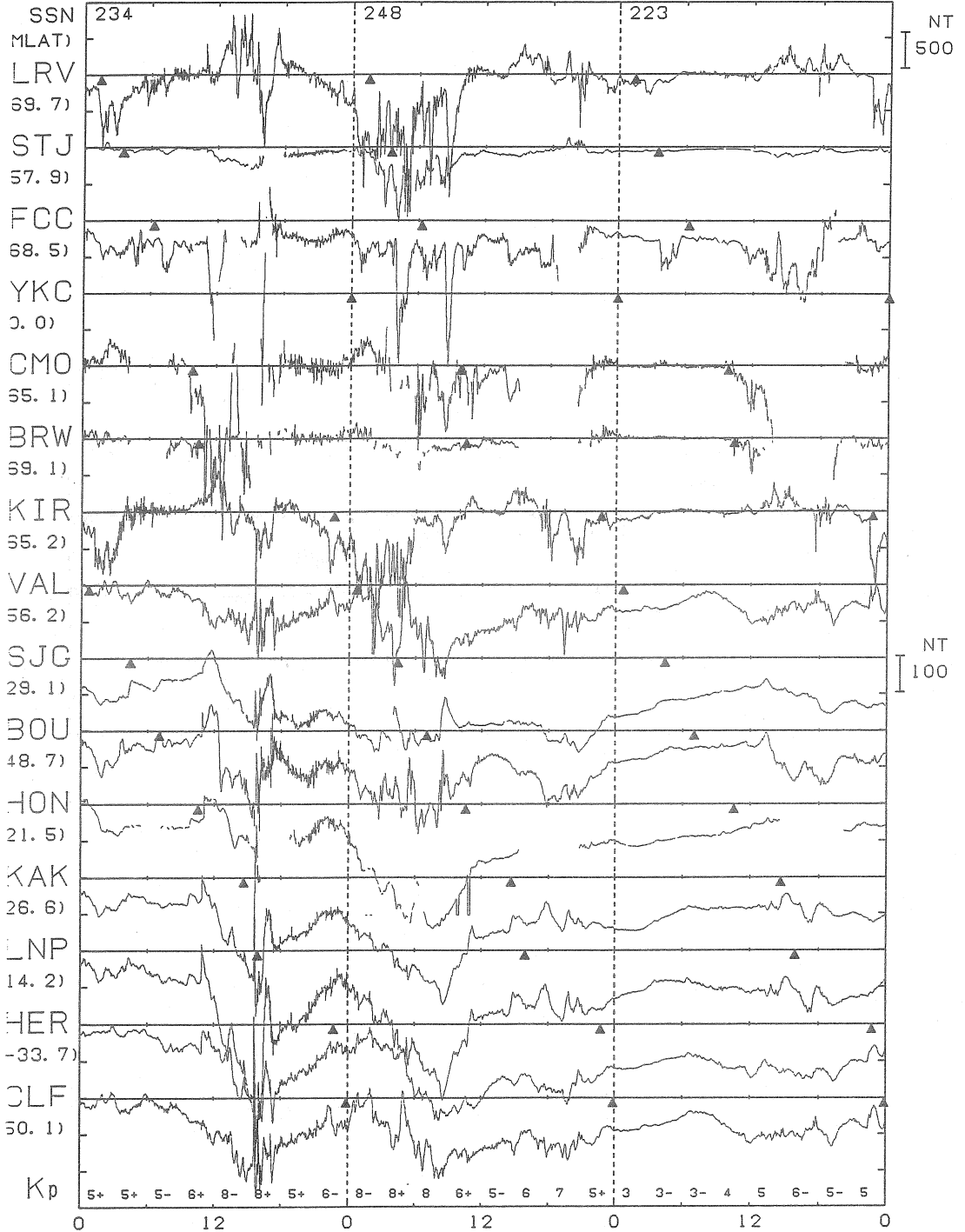
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

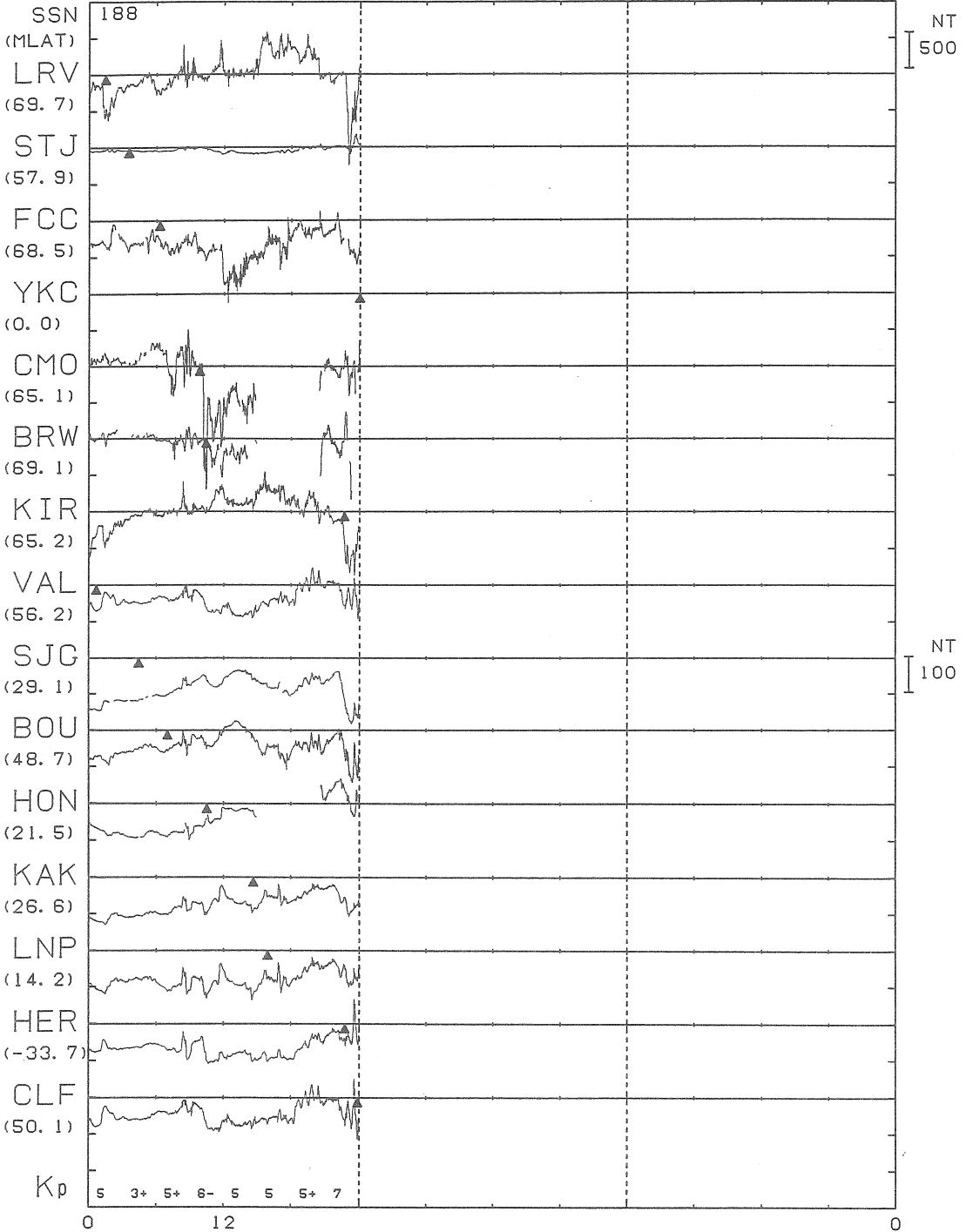
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



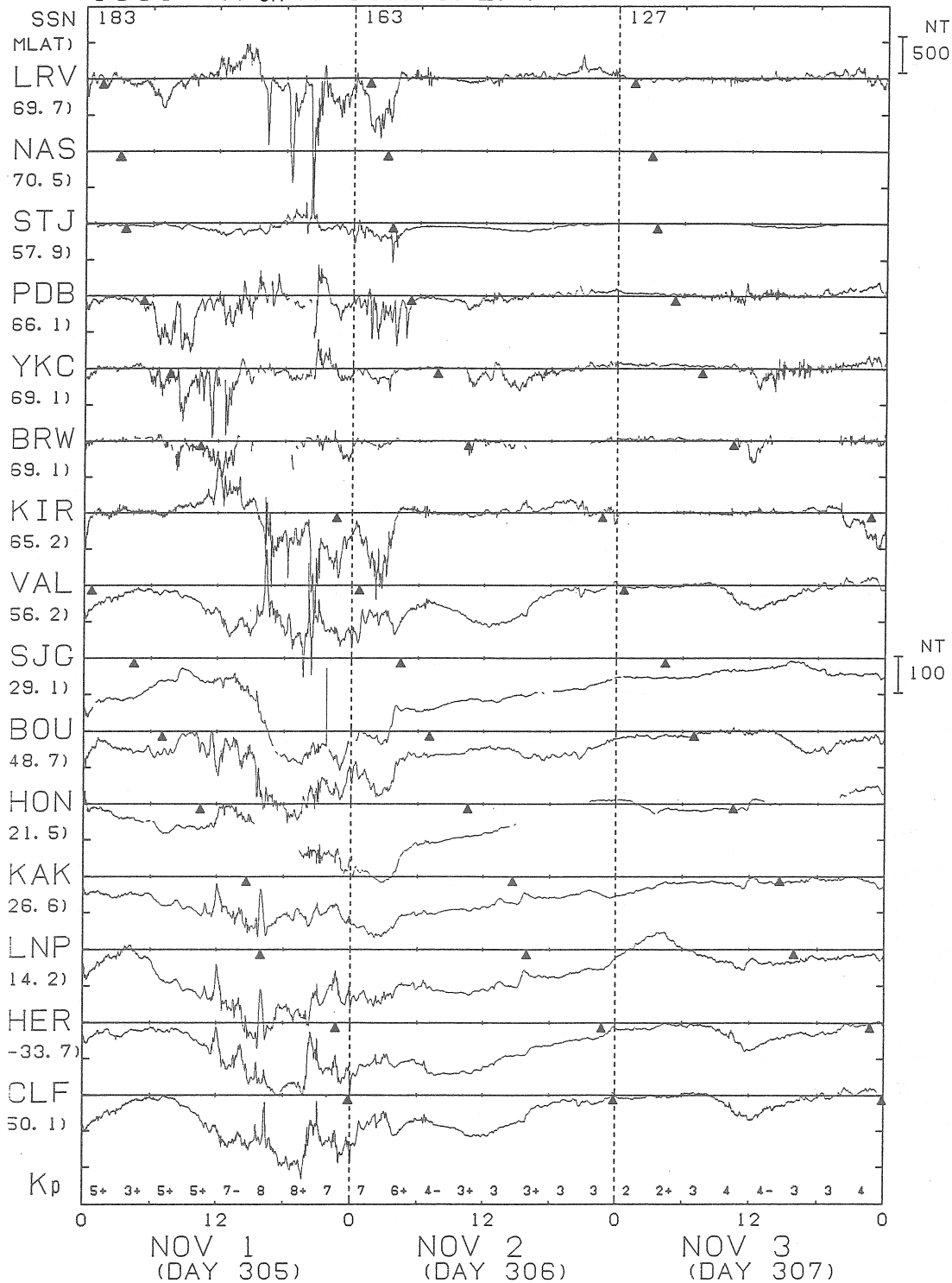
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 ** PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

NOVEMBER 1991

(DAY 305 - 334)

1991 H OR X-COMPONENT

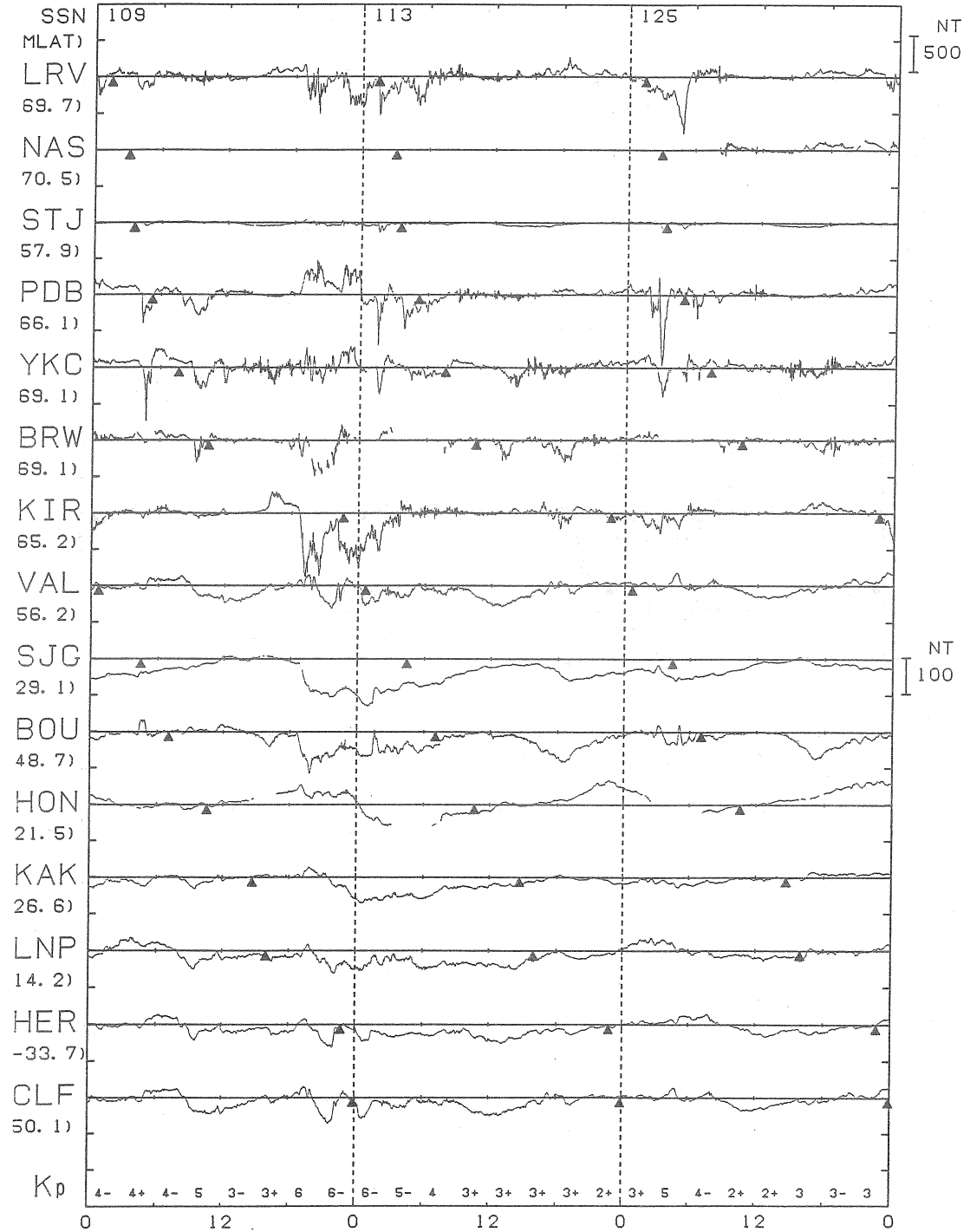
▲ : LOCAL MIDNIGHT



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

1991 H OR X-COMPONENT

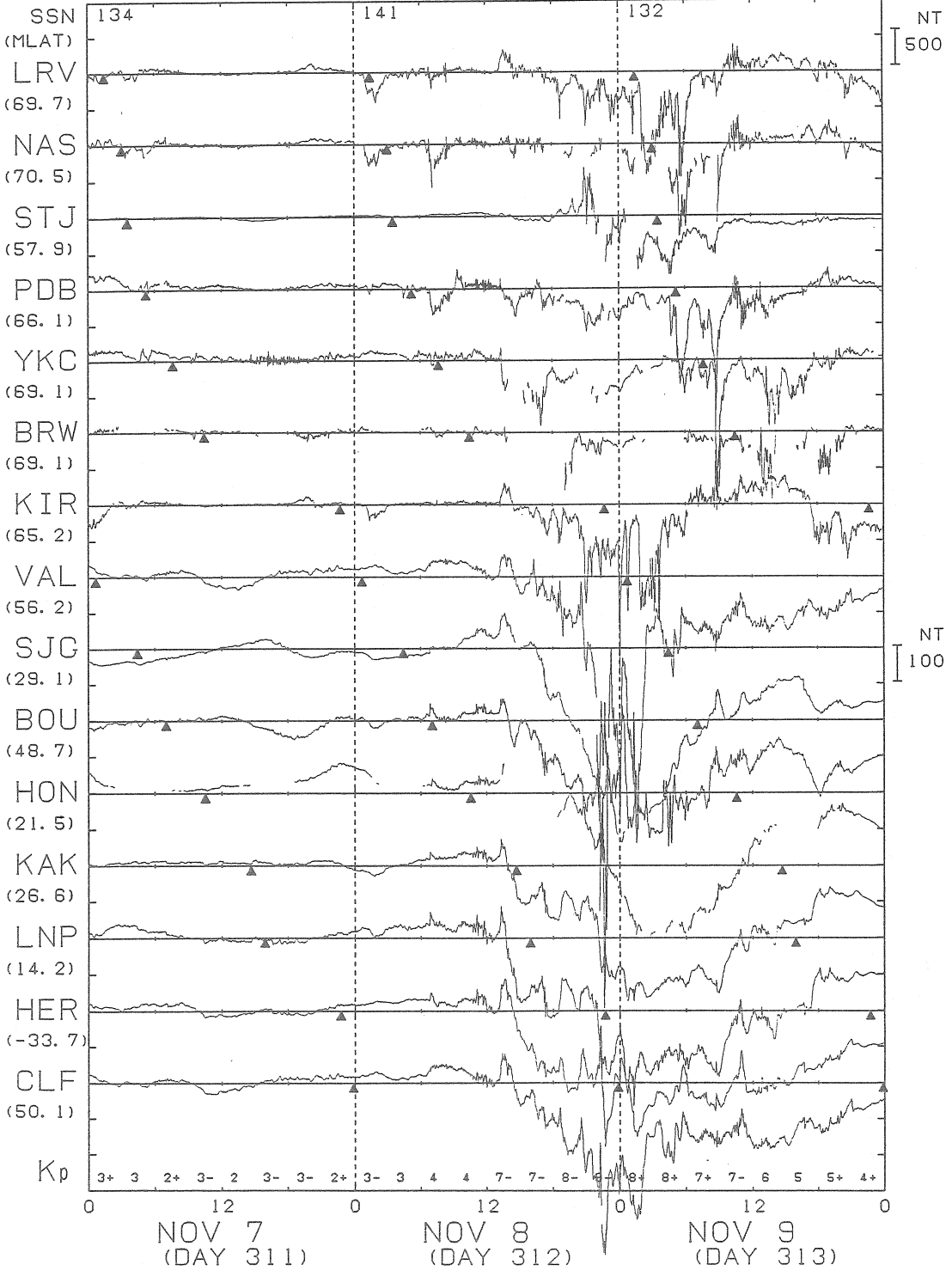
▲ : LOCAL MIDNIGHT



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

1991 H OR X-COMPONENT

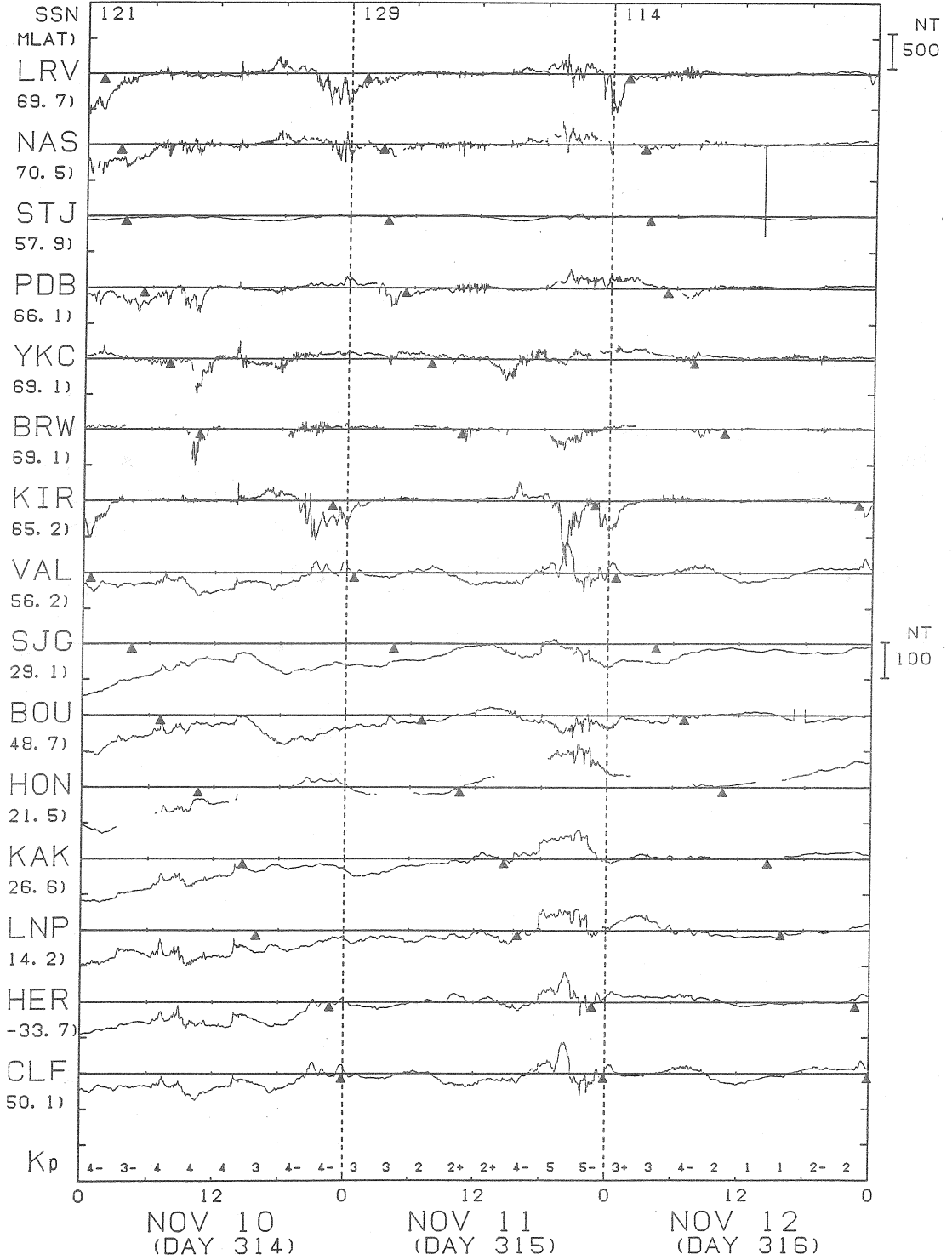
▲ : LOCAL MIDNIGHT



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

1991 H OR X-COMPONENT

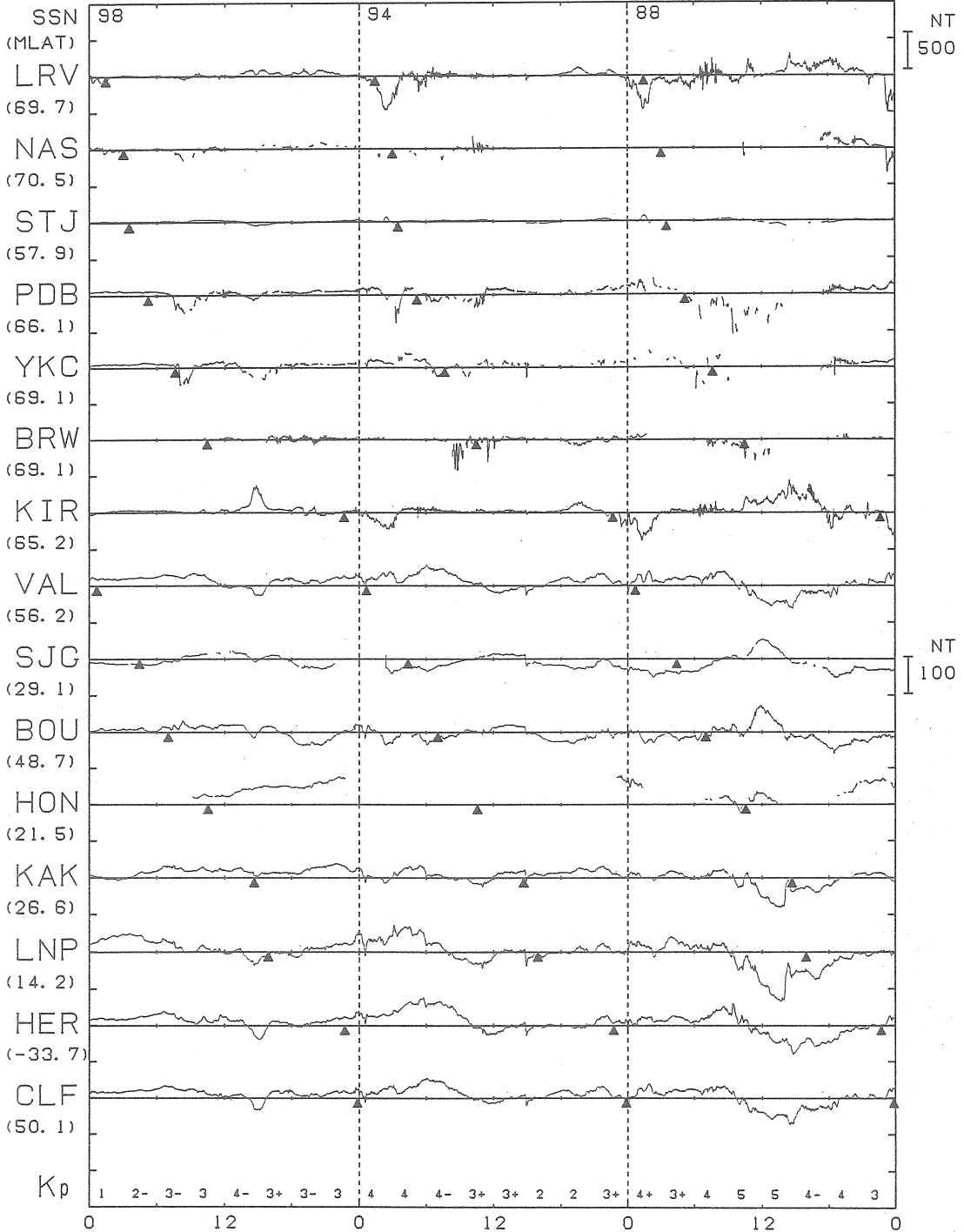
▲ : LOCAL MIDNIGHT



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

1991 H OR X-COMPONENT

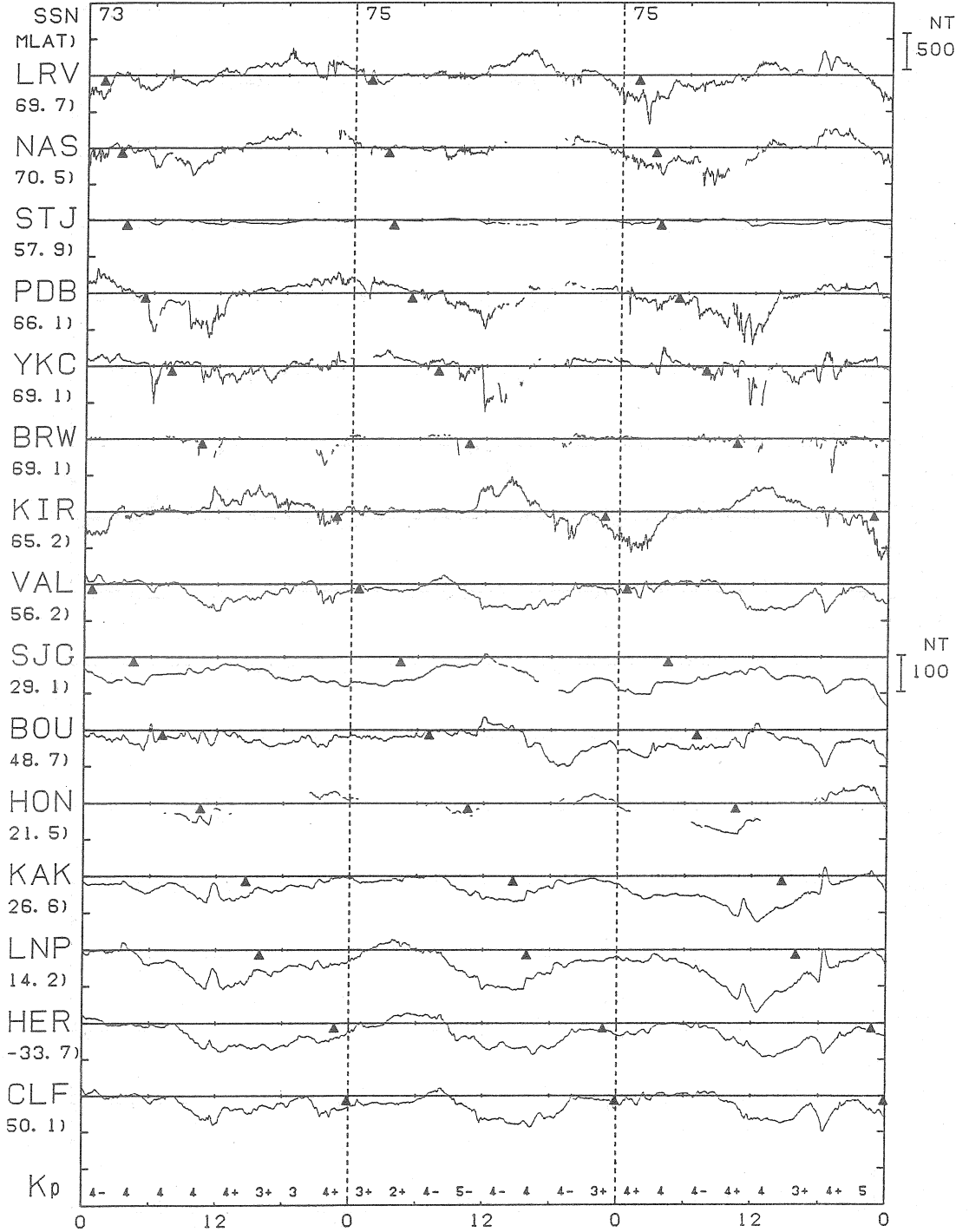
▲ : LOCAL MIDNIGHT



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

1991 H OR X-COMPONENT

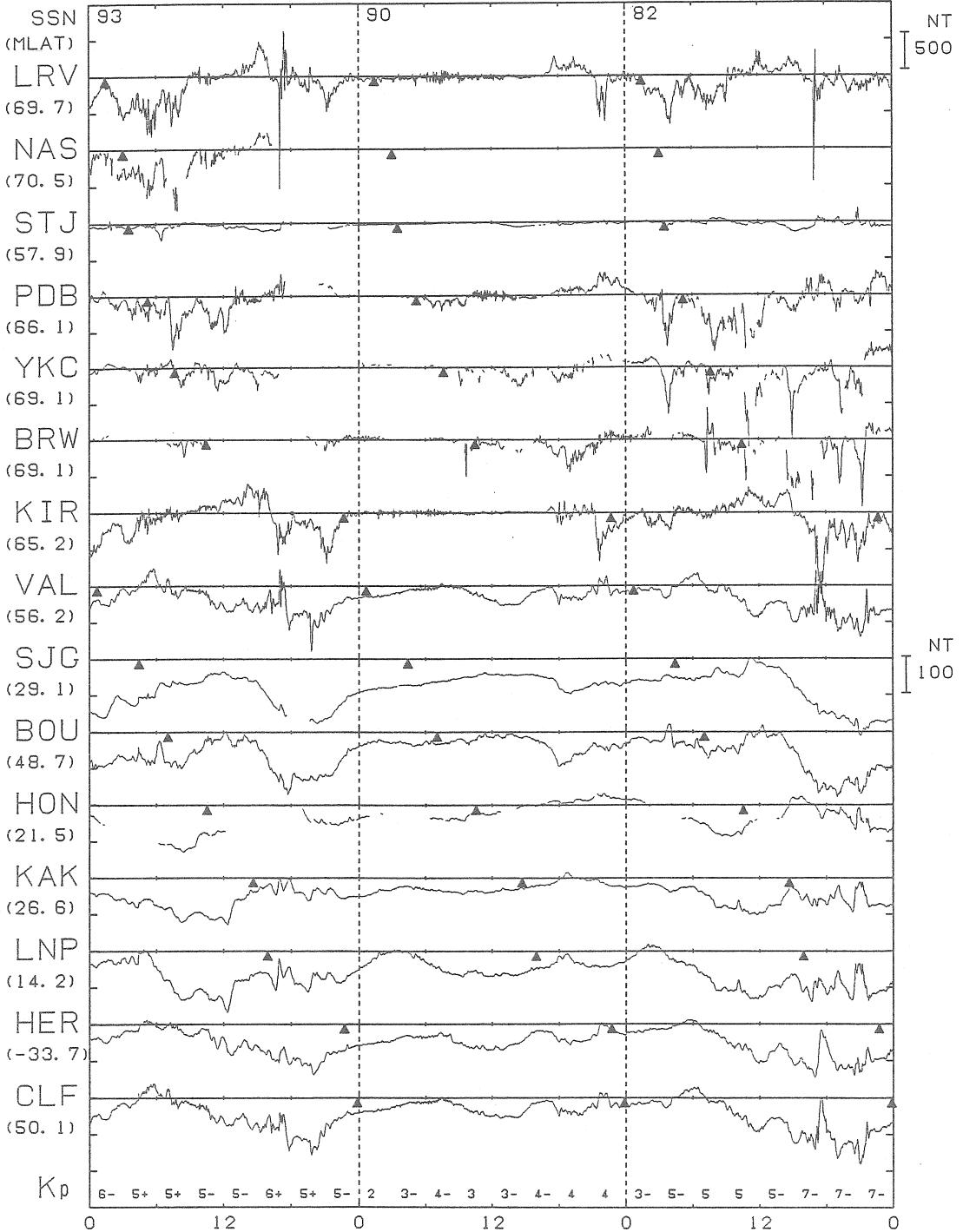
▲ : LOCAL MIDNIGHT



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

1991 H OR X-COMPONENT

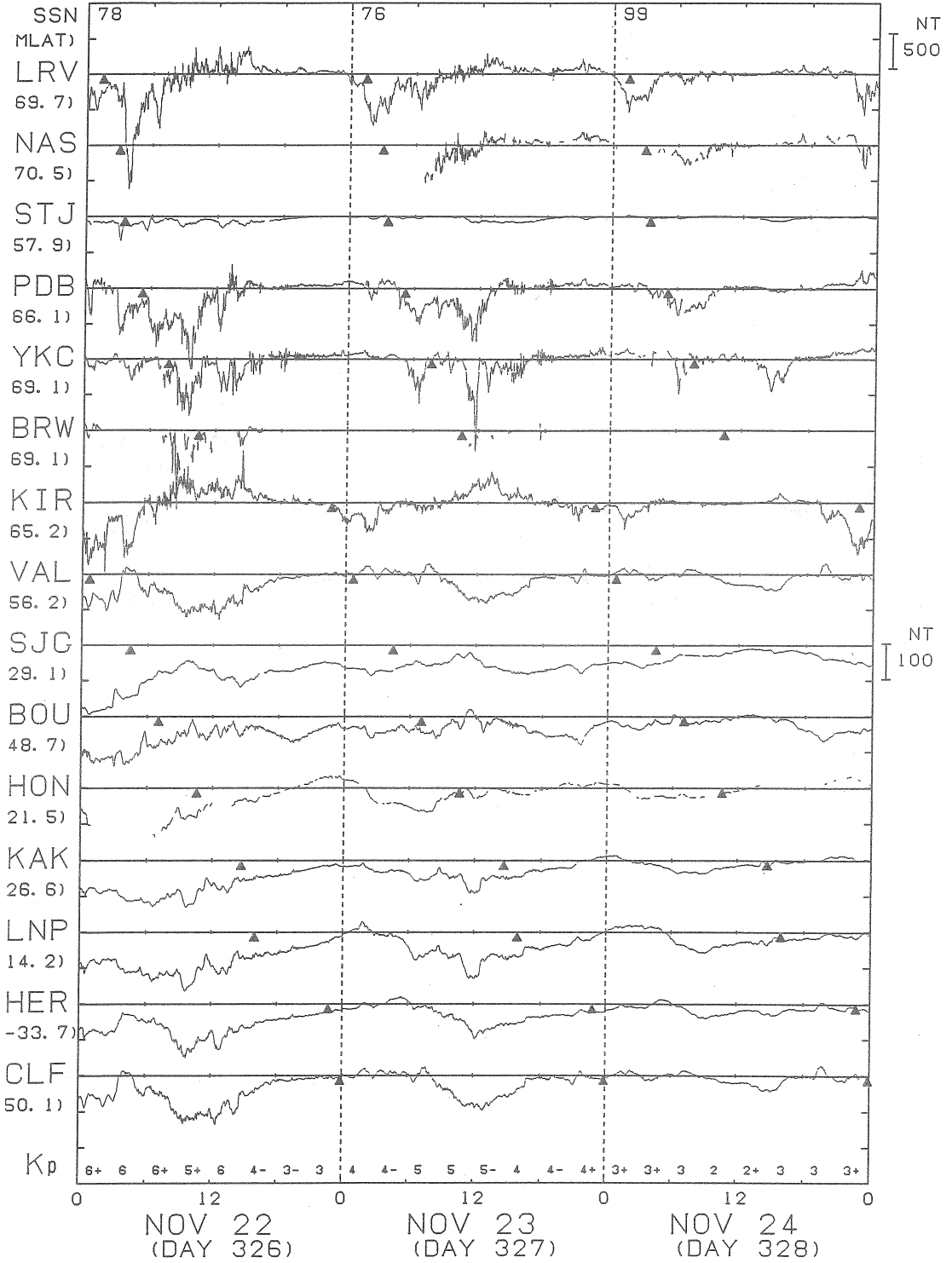
▲ : LOCAL MIDNIGHT



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

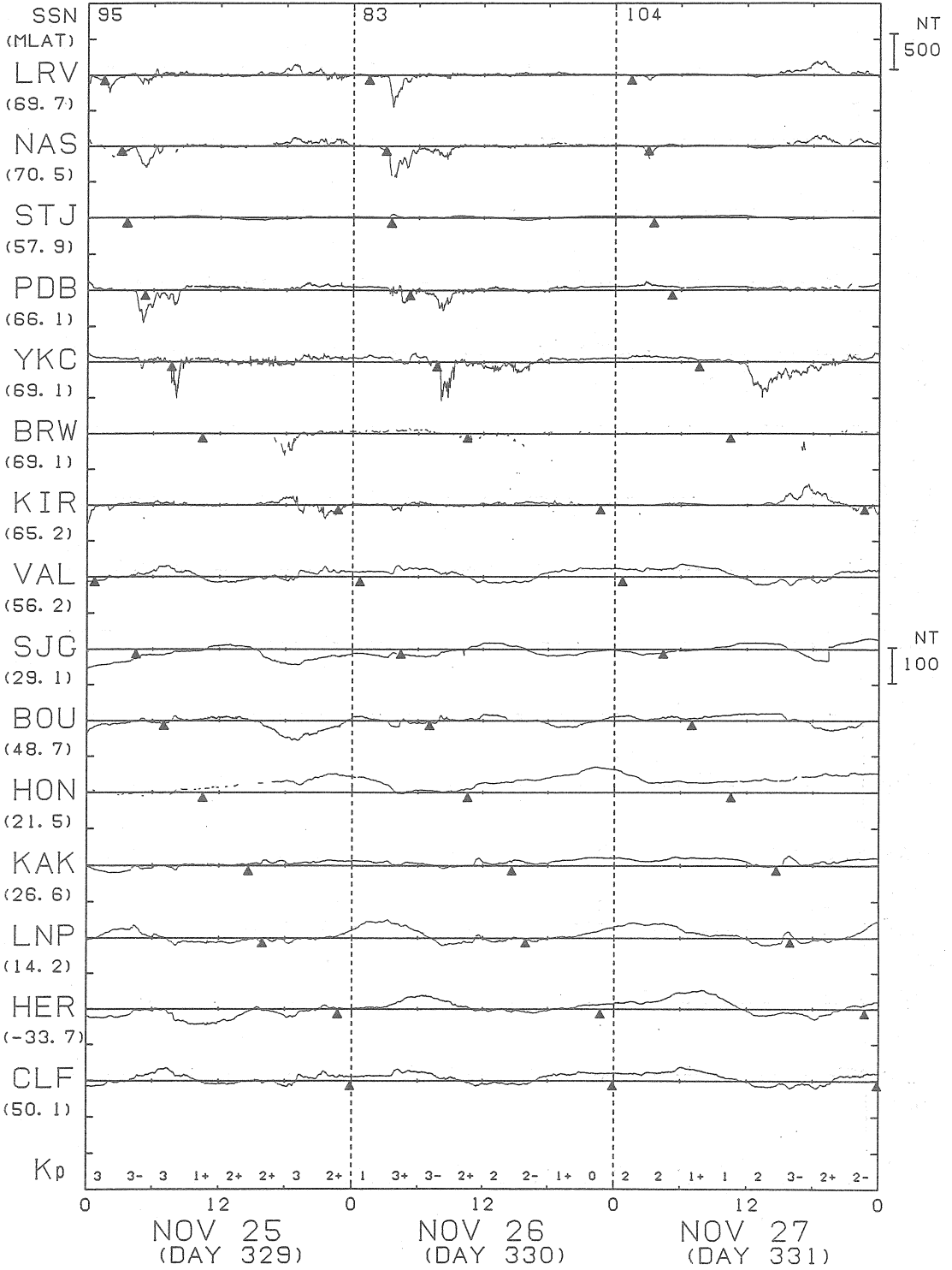
▲ : LOCAL MIDNIGHT



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

1991 H OR X-COMPONENT

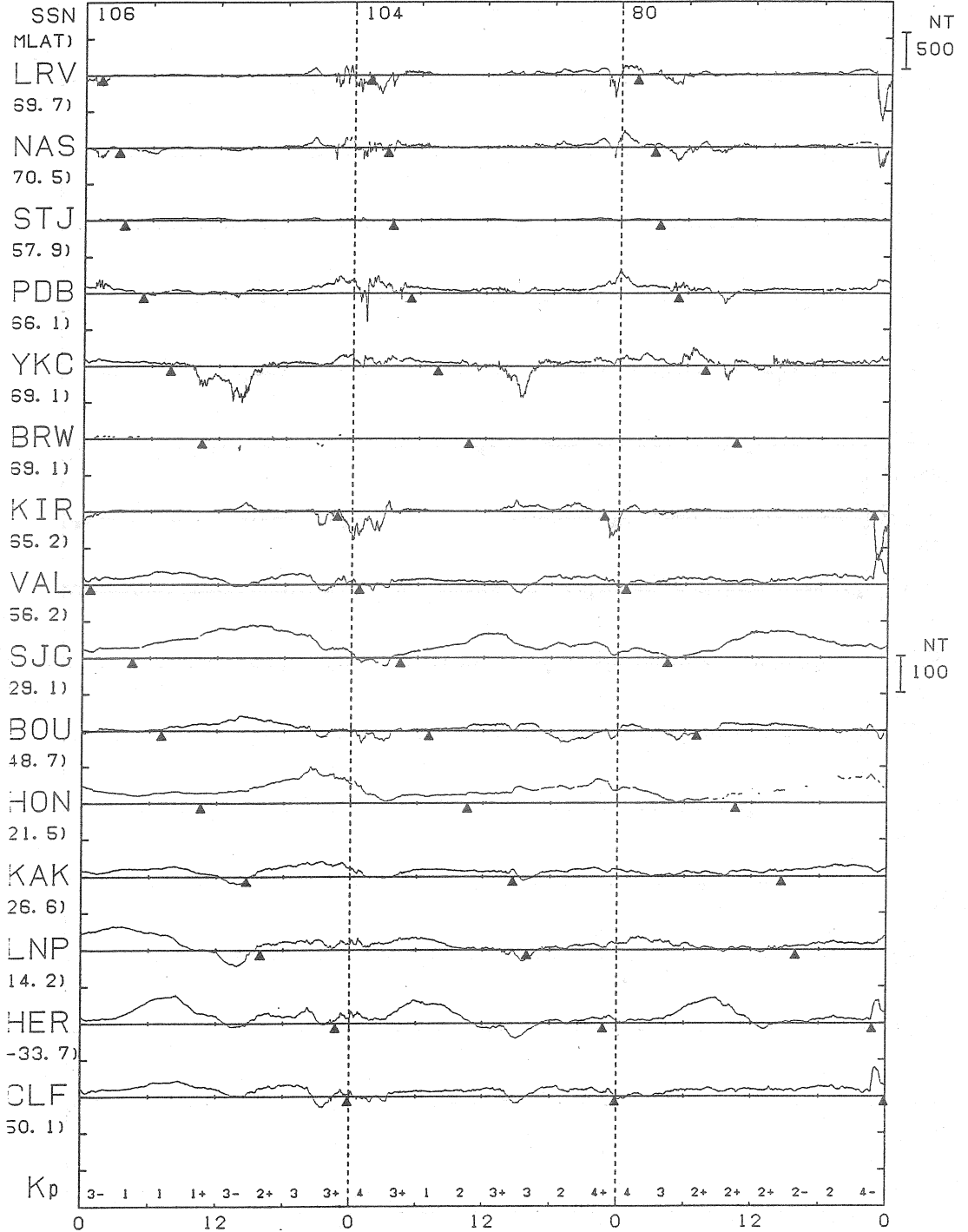
▲ : LOCAL MIDNIGHT



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

1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



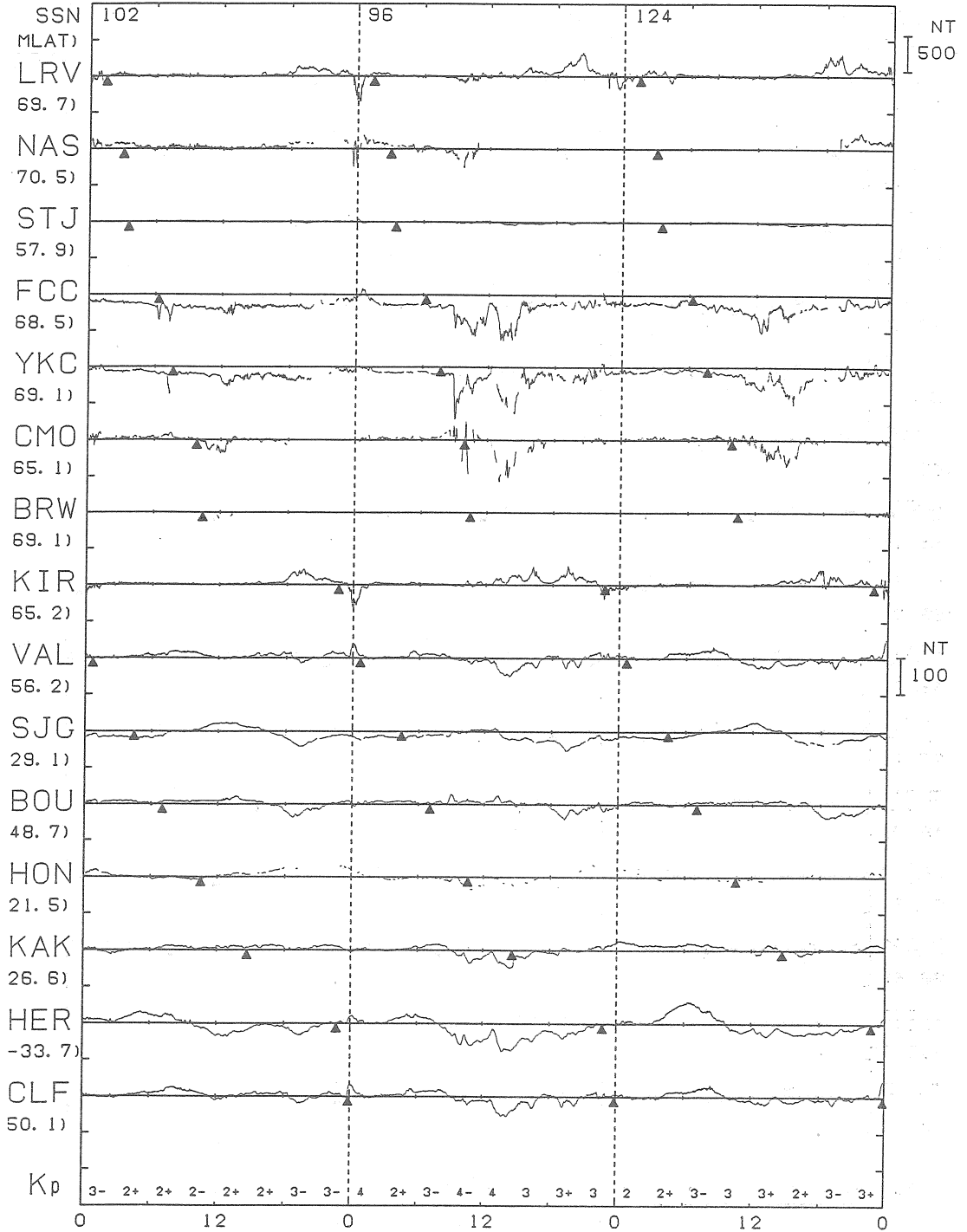
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

DECEMBER 1991

(DAY 335 - 365)

1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



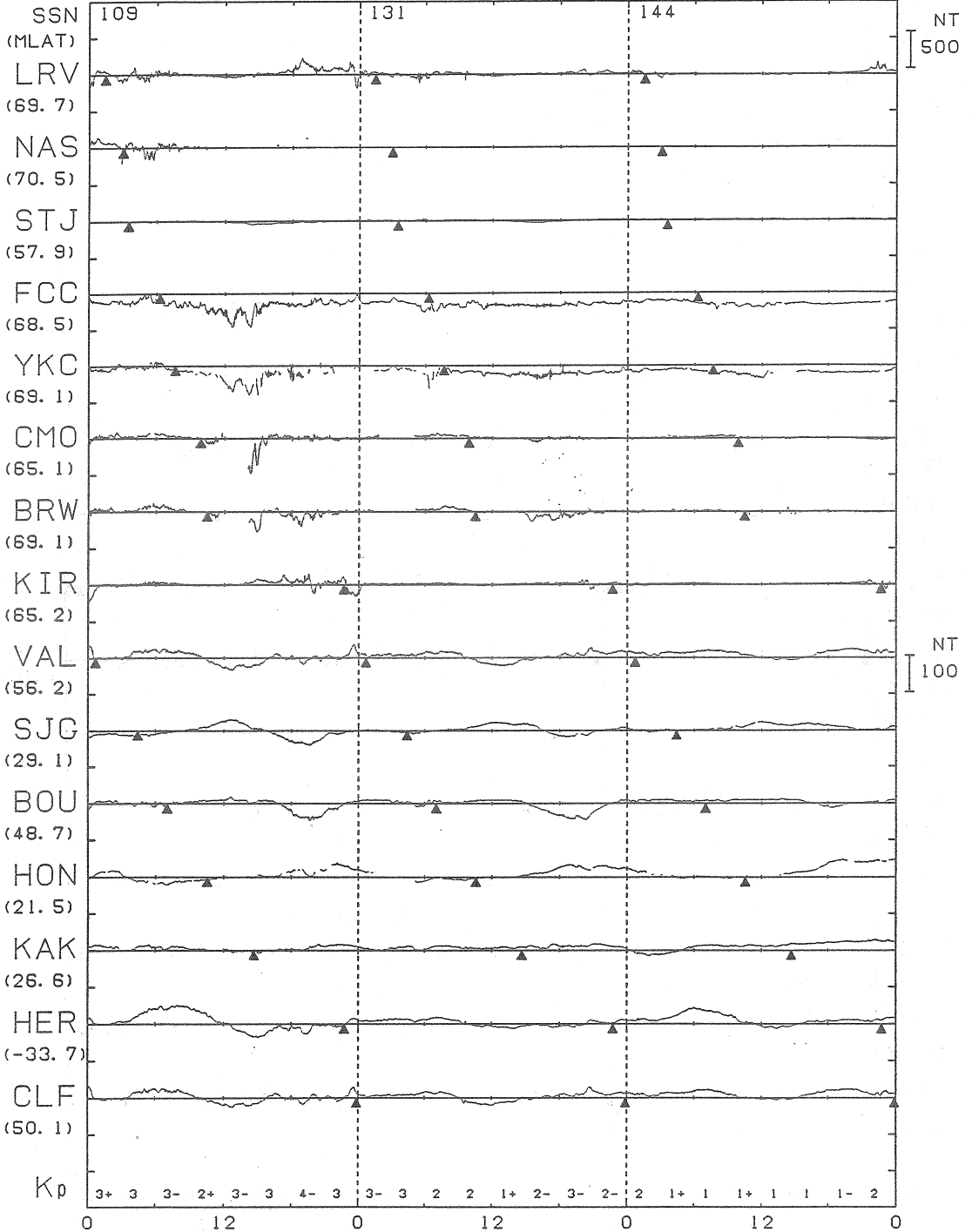
* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED*

* PROMPT DATA ARE INCLUDED

* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



DEC 4
(DAY 338)

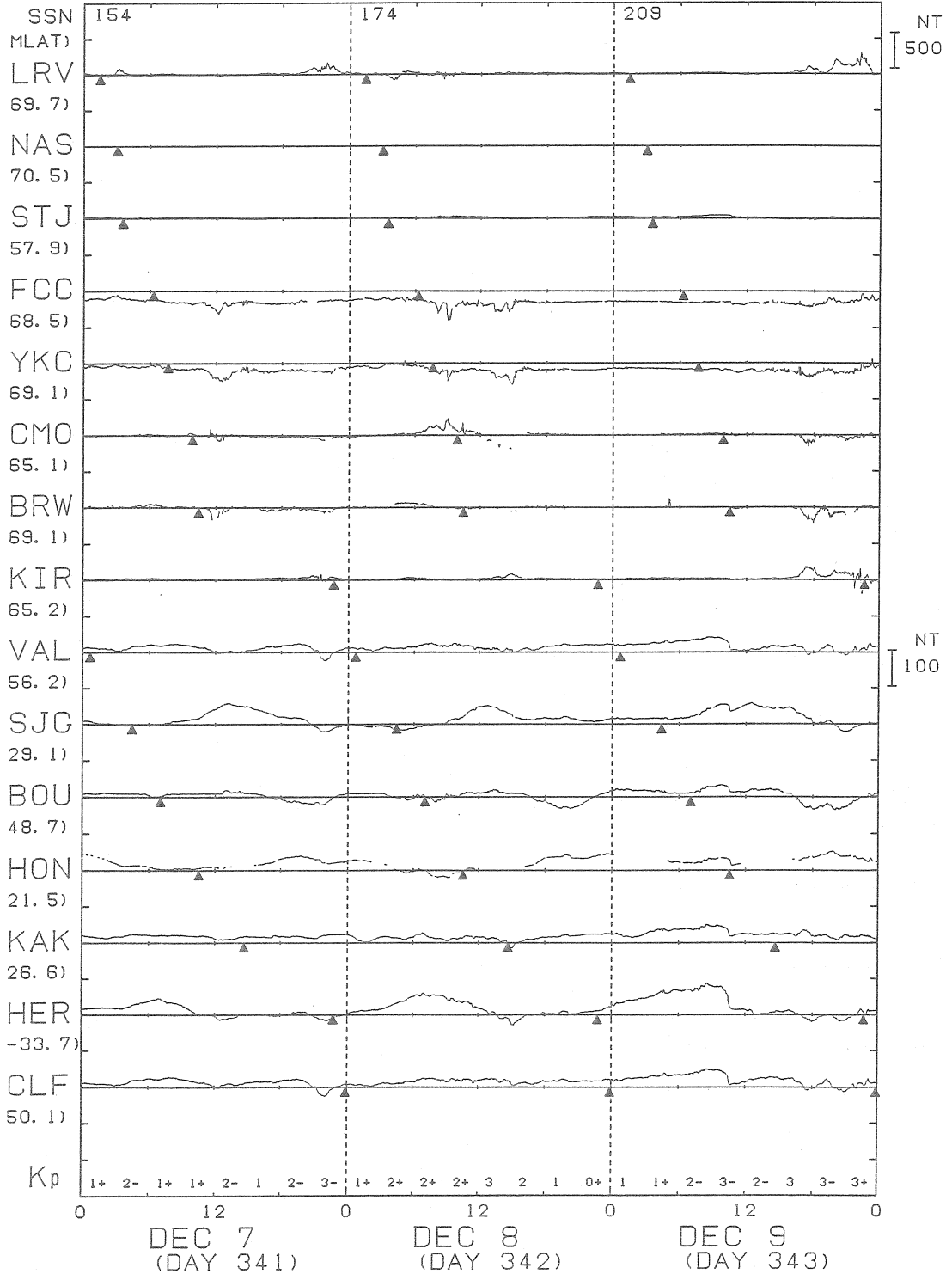
DEC 5
(DAY 339)

DEC 6
(DAY 340)

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

1991 H OR X-COMPONENT

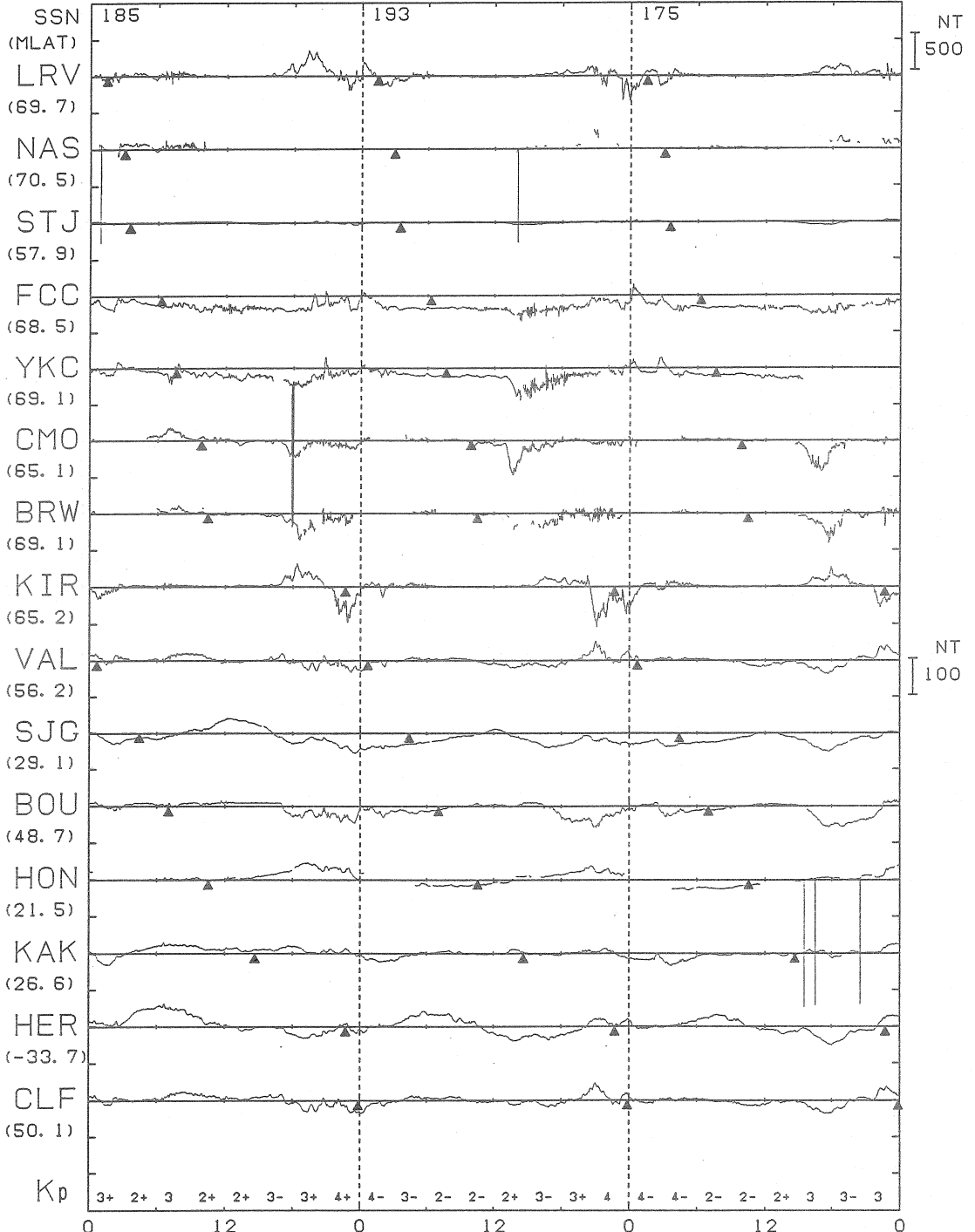
▲ : LOCAL MIDNIGHT



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

1991 H OR X-COMPONENT

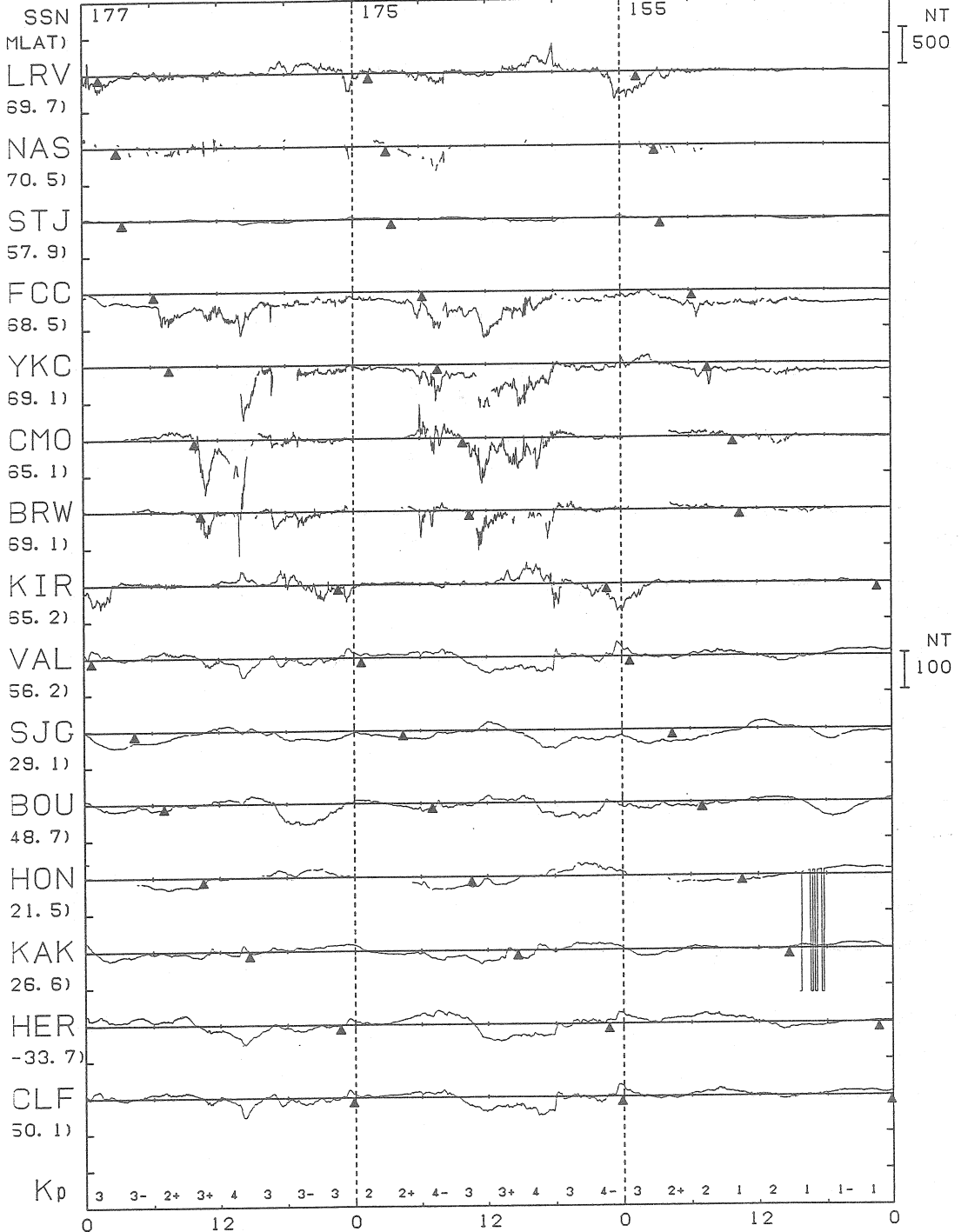
▲ : LOCAL MIDNIGHT



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

1991 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



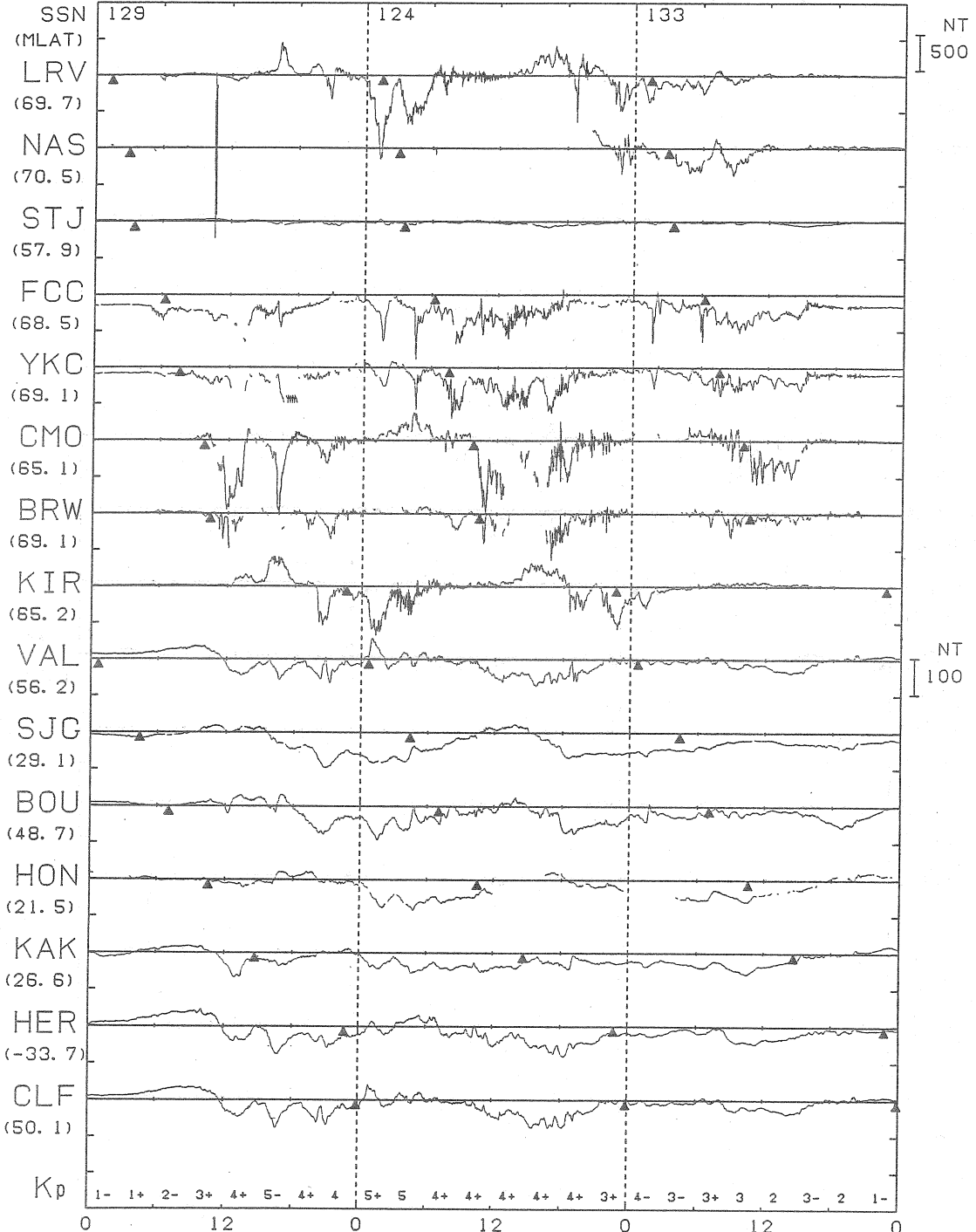
DEC 13
(DAY 347)

DEC 14
(DAY 348)

DEC 15
(DAY 349)

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

1991 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



DEC 16
(DAY 350)

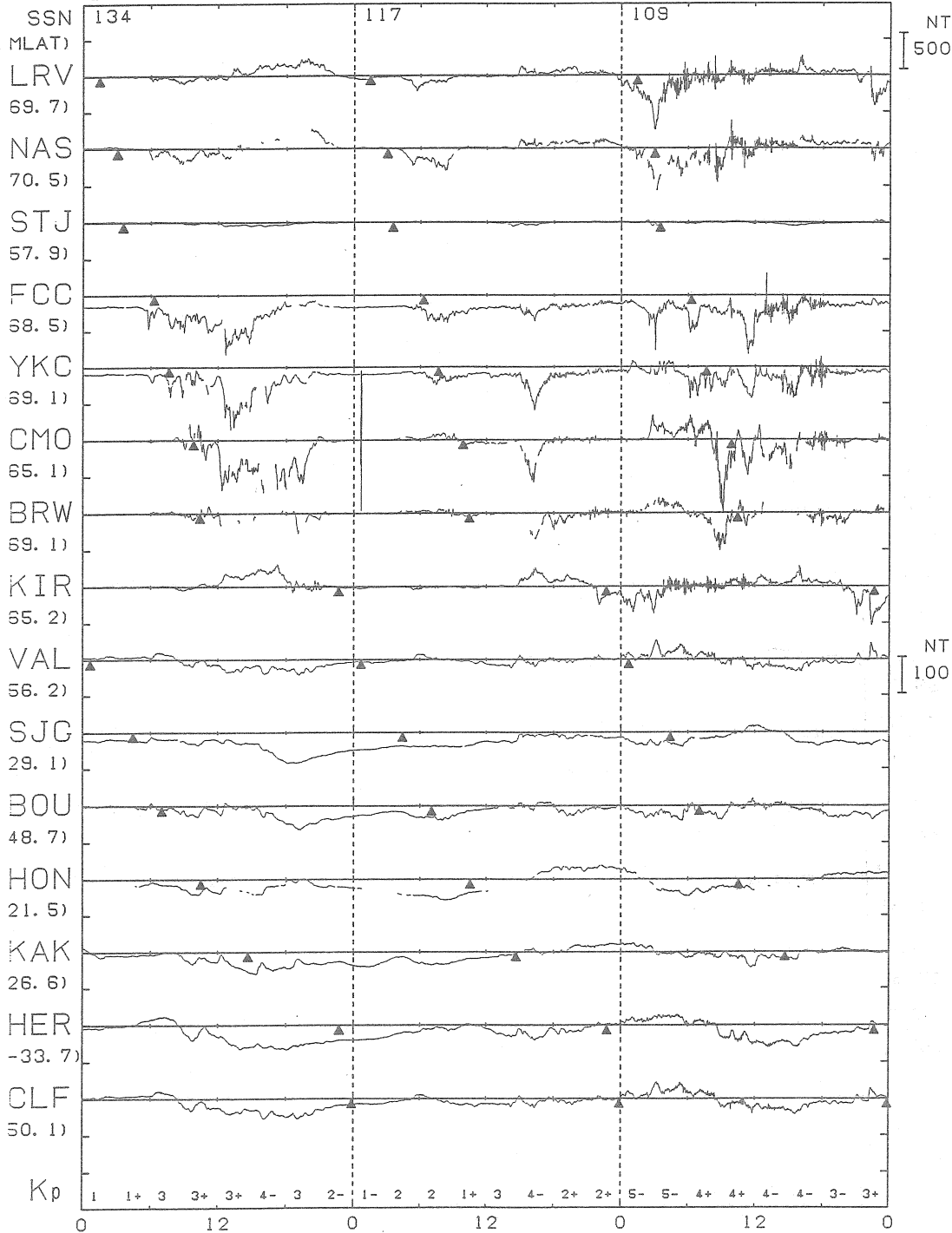
DEC 17
(DAY 351)

DEC 18
(DAY 352)

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

1991 H OR X-COMPONENT

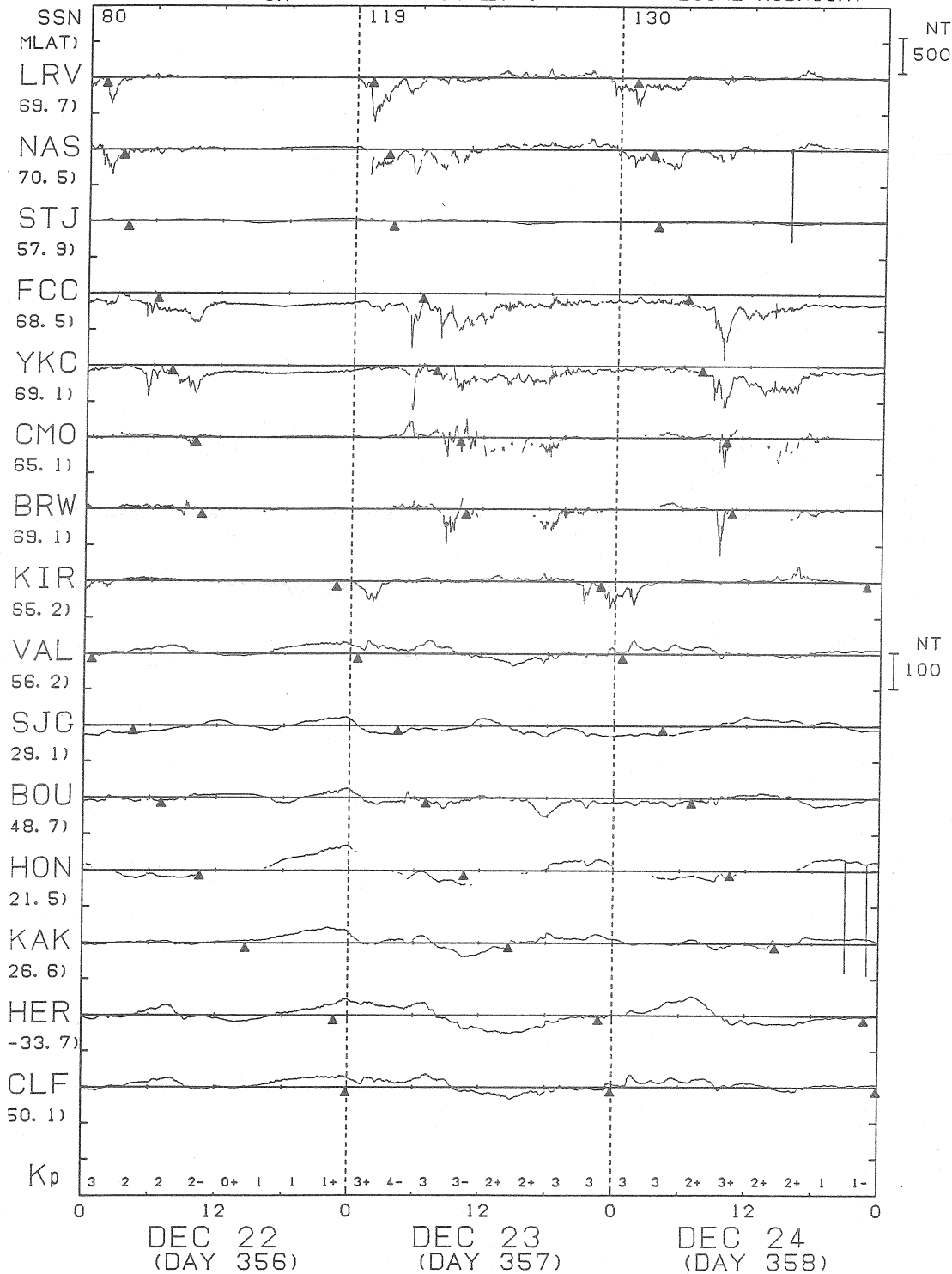
▲ : LOCAL MIDNIGHT



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

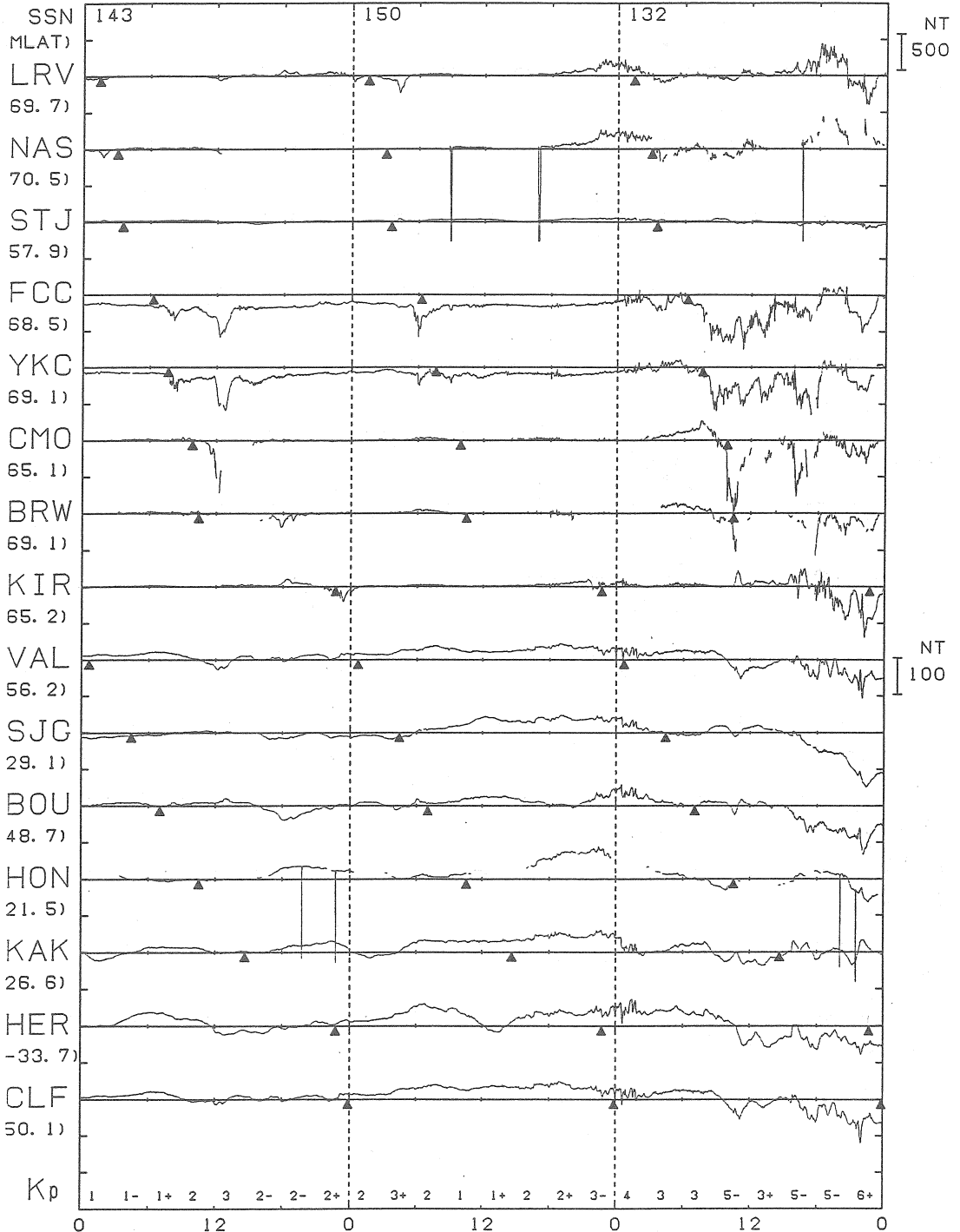
▲ : LOCAL MIDNIGHT



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1991 H OR X-COMPONENT

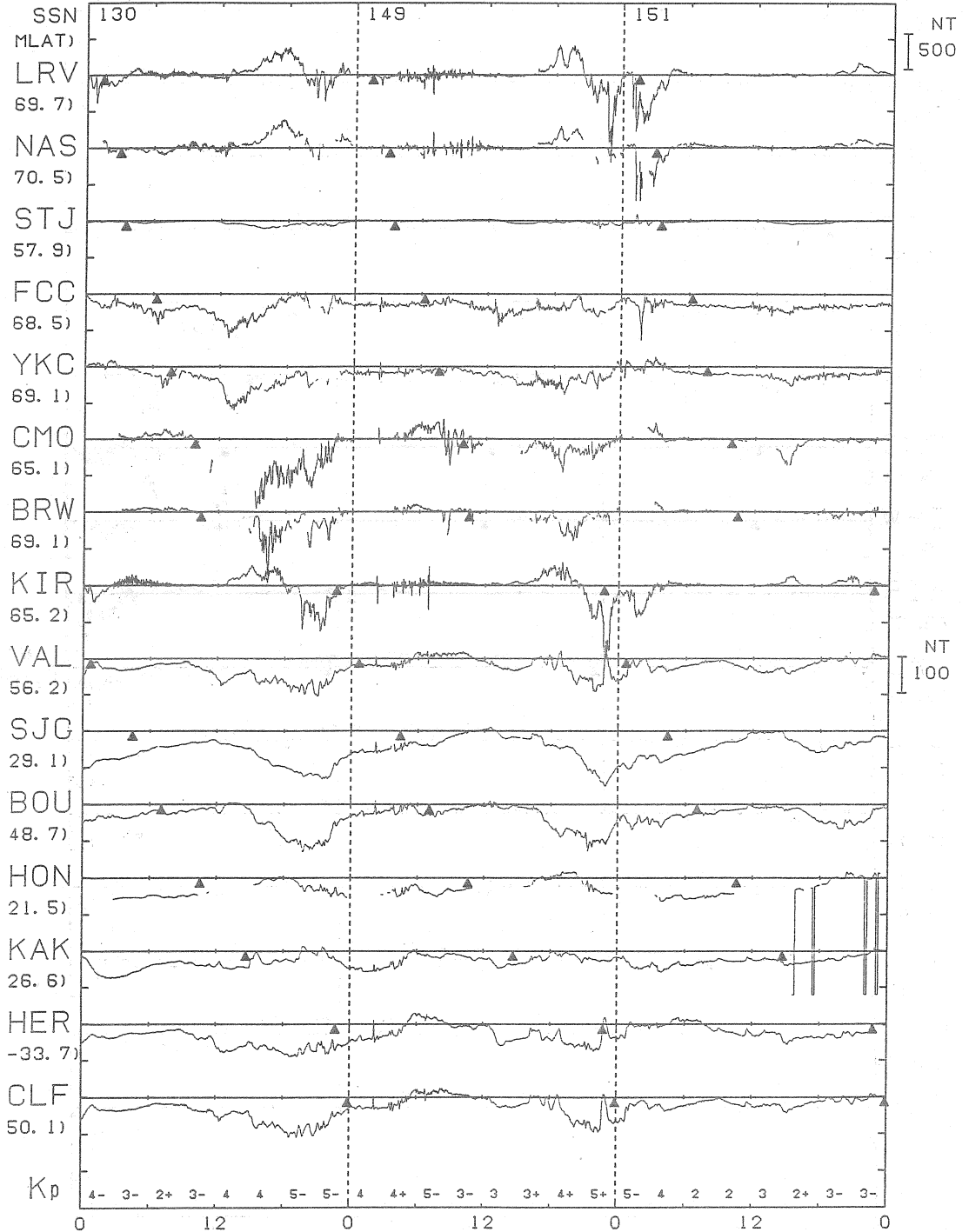
▲ : LOCAL MIDNIGHT



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 *** PROMPT DATA ARE INCLUDED
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1991 H OR X-COMPONENT

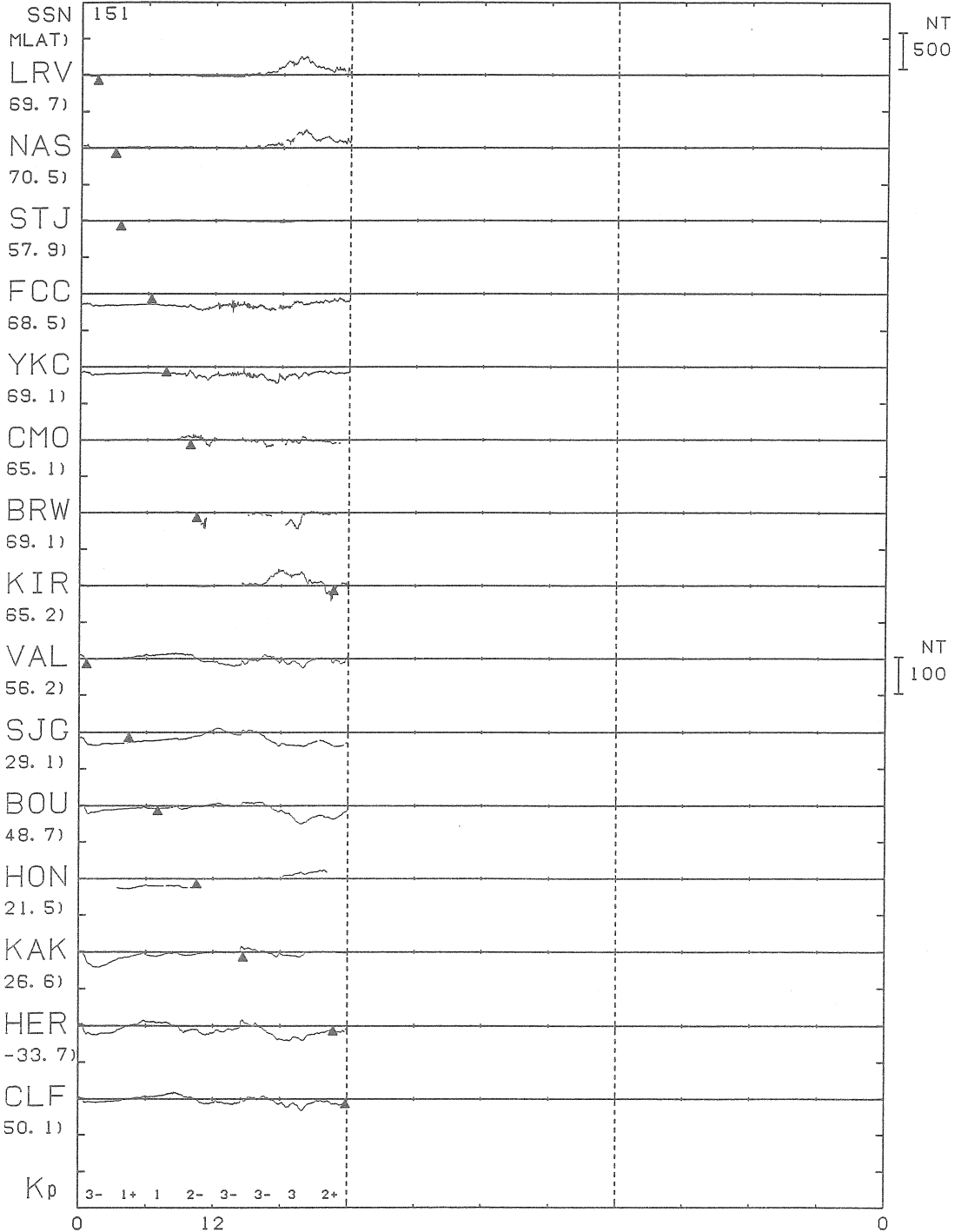
▲ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
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1991 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

