

PROVISIONAL GEOMAGNETIC  
DATA PLOTS  
NO.22

(July - December, 2000)

February 2001

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



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## PREFACE

This booklet contains provisional plots of the geomagnetic data for July - December, 2000 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 adjustment or noise reduction (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) World Data Center-A for STP and The U.S. Geological Survey.
- (2) Leirvogur Magnetic Observatory, University of Iceland.
- (3) Valentia Observatory of Meteorological Service.
- (4) Kakioka Magnetic Observatory.
- (5) Telecommunication Training Institute.
- (6) Hermanus Magnetic Observatory.
- (7) Swedish Institute of Space Physics in Kiruna.
- (8) Chambon-la-Forêt Magnetic Observatory.
- (9) Danish Meteorological Institute.
- (10) Institute de Physique du Globe de Strasbourg.
- (11) Indian Institute of Geomagnetism.
- (12) Instituto Geofísico del Perú.
- (13) Institute of Geophysics, China Seismological Bureau and Xinjiang Province Seismological Bureau

The distribution and the information of the stations are shown in Figure 1 and Table 1, respectively. The Kp index was provided by GeoForschungsZentrum Potsdam. The international sunspot number is provided by the Sunspot Index Data Center, Brussels.

The Post-Script files of these plots for the latest issue are available from WWW home page

<http://swdcdb.kugi.kyoto-u.ac.jp/wdc/Sec3.html#ARCH>

or from anonymous FTP directory at our data center. The IP address and the directory are as follows:

IP address: 130.54.59.253 (swdcdb)

Directory: anonymous (Change directory to './data/pplot' after logging in.)

Each file is compressed and has a name YYMMD1-D2.ps.gz (for example, 000711-12.ps.gz). Each file contains the plot of the each page of this booklet. Files should be transferred in binary mode and uncompressed.

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

World Data Center for Geomagnetism, Kyoto  
Graduate school of Science,  
Kyoto University  
Kyoto 606-8502, Japan.

Telephone: 81-75-753-3929  
Facsimile: 81-75-722-7884  
E-mail: iyemori@kugi.kyoto-u.ac.jp  
WWW: <http://swdcd.db.kugi.kyoto-u.ac.jp/>

Table 1. List of stations used in this booklet. The 15 (17) stations among them are used in the plots.

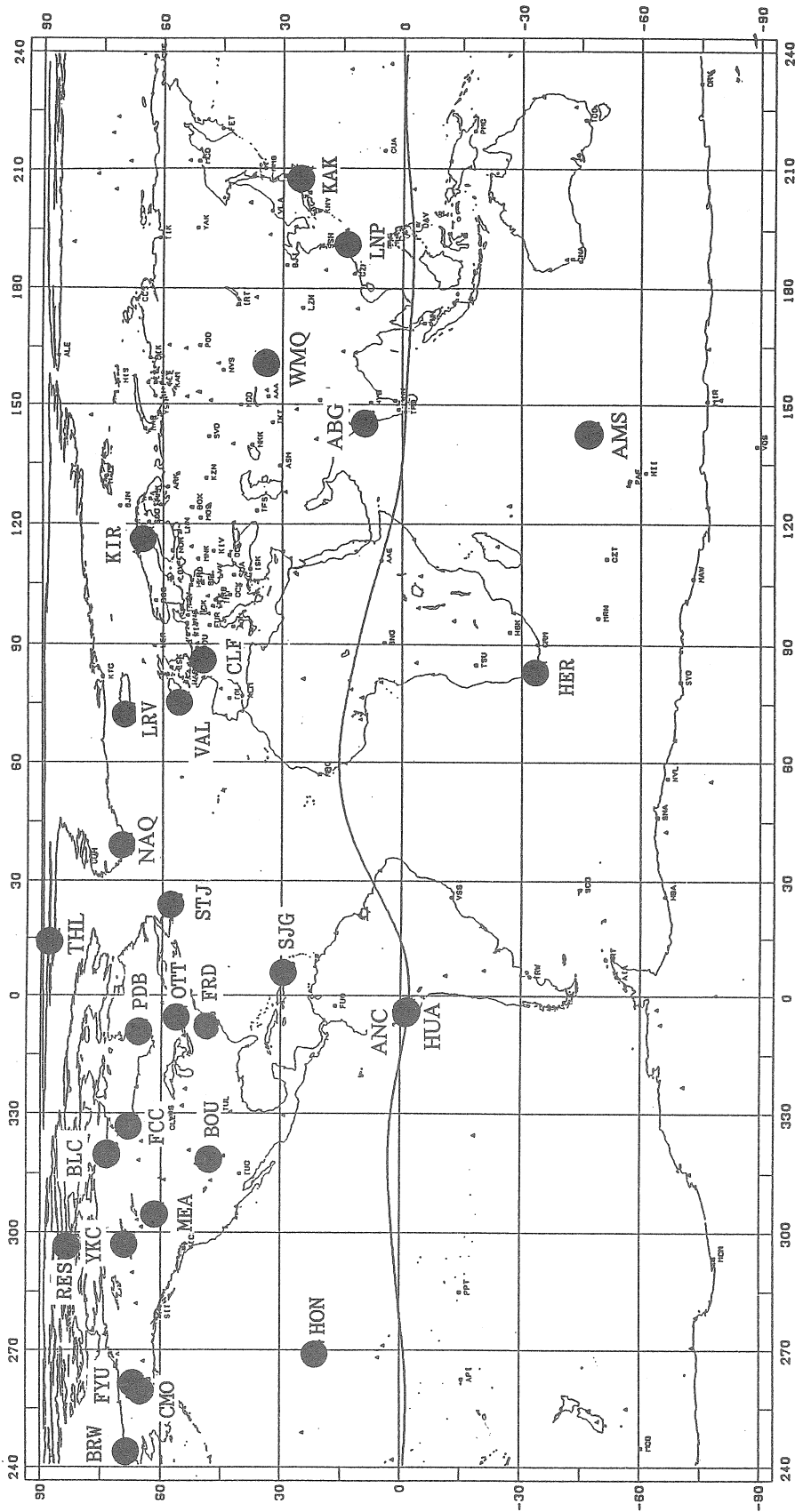
STATION NAME	ABB CODE	ORG No.	GEOGRAPHIC		GEOMAGNETIC		INVARIANT PLOT	
			LAT.	LONG.	LAT.	LONG.	LAT.	SCALE
*Tule	THL	9	76.6	291.2	87.2	12.4	85.9	500nT/div
*Resolute Bay	RES	1	74.7	265.1	83.1	296.0	83.9	"
*Baker Lake	BLC	1	64.3	264.0	73.7	319.2	74.6	"
*Narssarsuaq	NAQ	9	61.2	314.6	70.6	38.7	67.5	"
Leirvogur	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	"
*St. Johns	STJ	1	47.6	307.3	57.9	23.4	55.6	100nT/div
Valentia	VAL	3	51.9	349.8	56.2	74.8	51.0	"
*San Juan	SJG	1	18.4	293.9	29.1	5.2	32.5	"
*Fredericksburg	FRD	1	38.2	282.6	49.1	352.2	50.7	"
*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	"
Martin de Vivies	AMS	10	-37.8	77.6	-46.9	142.8	48.6	"
Chambon-la-Foret	CLF	8	48.0	2.3	50.1	85.7	45.7	"
*Hermanus	HER	6	-34.4	19.2	-33.9	83.4	43.6	"
*Urumqi	WMQ	13	43.8	87.7	33.7	162.0	36.5	"
*Alibag	ABG	11	18.6	72.9	9.9	145.8	---	"
*Ancon	ANC	12	-11.8	282.9	-1.1	354.4	Near Mag. Eq.	"
*Huancayo	HUA	12	-12.1	284.7	-1.4	356.2	Mag. Equator	"

\*: Provisional data

#### Acknowledgments:

The compilation of the geomagnetic data and publication of this booklet have been supported in part by grant 11694072 and 127008 under the Japan Society for Promotion of science (JSPS) and by a part of "Ground Research for Space Utilization" promoted by NASDA and Japan Space Forum.

# 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.  
15 stations among those shown in this figure are used for the plots.

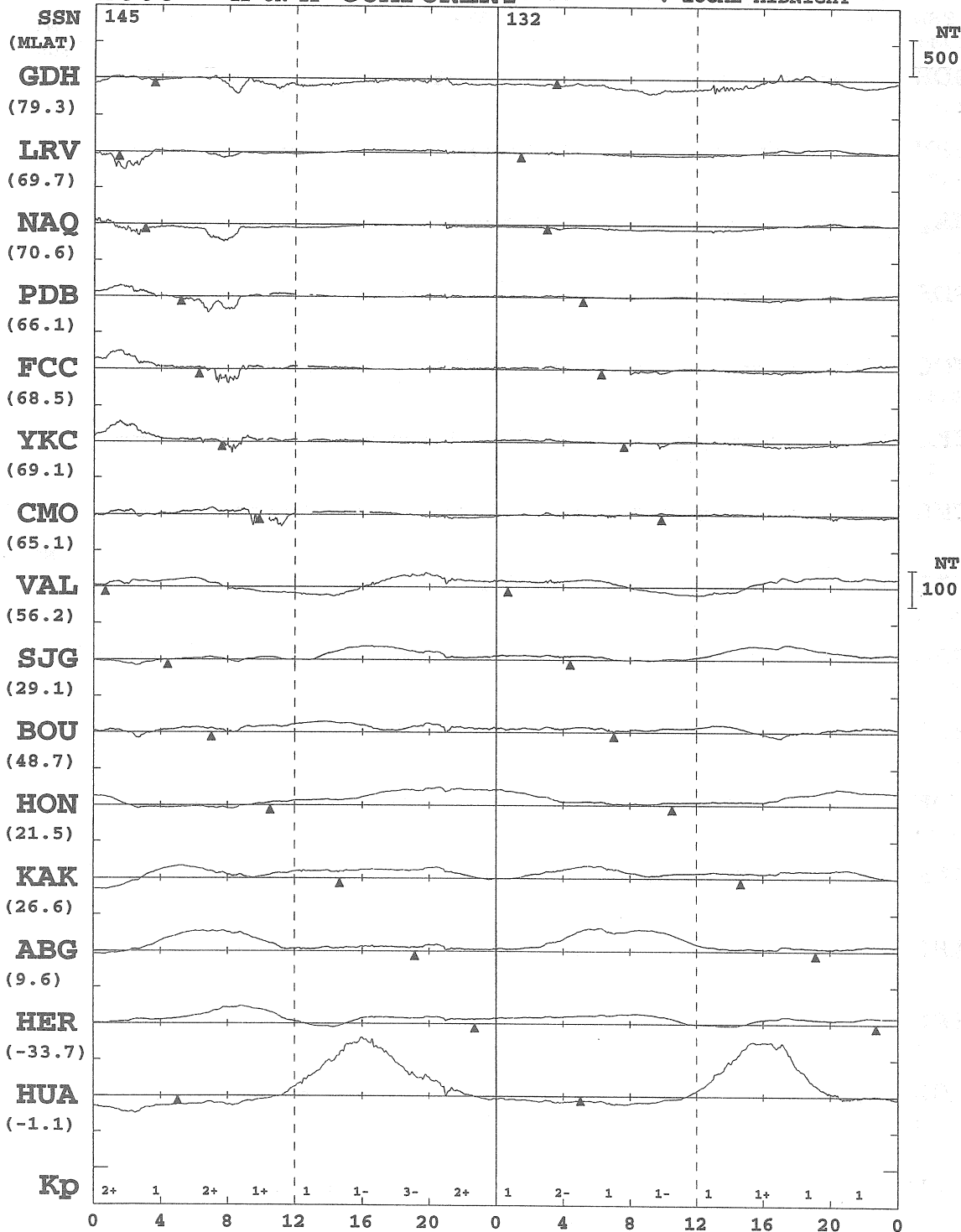


July - December, 2000





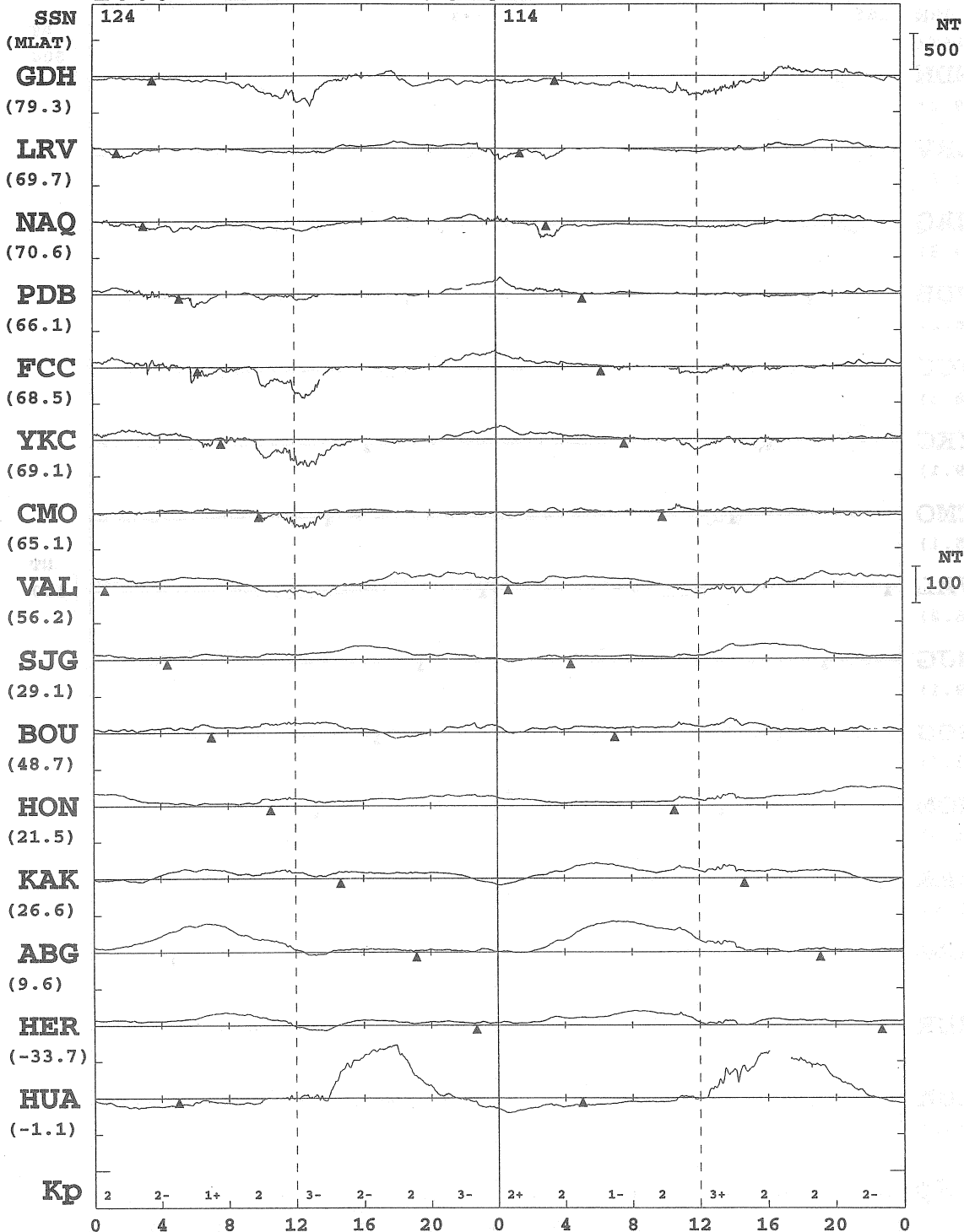
2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



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

KYOTO UNIV.

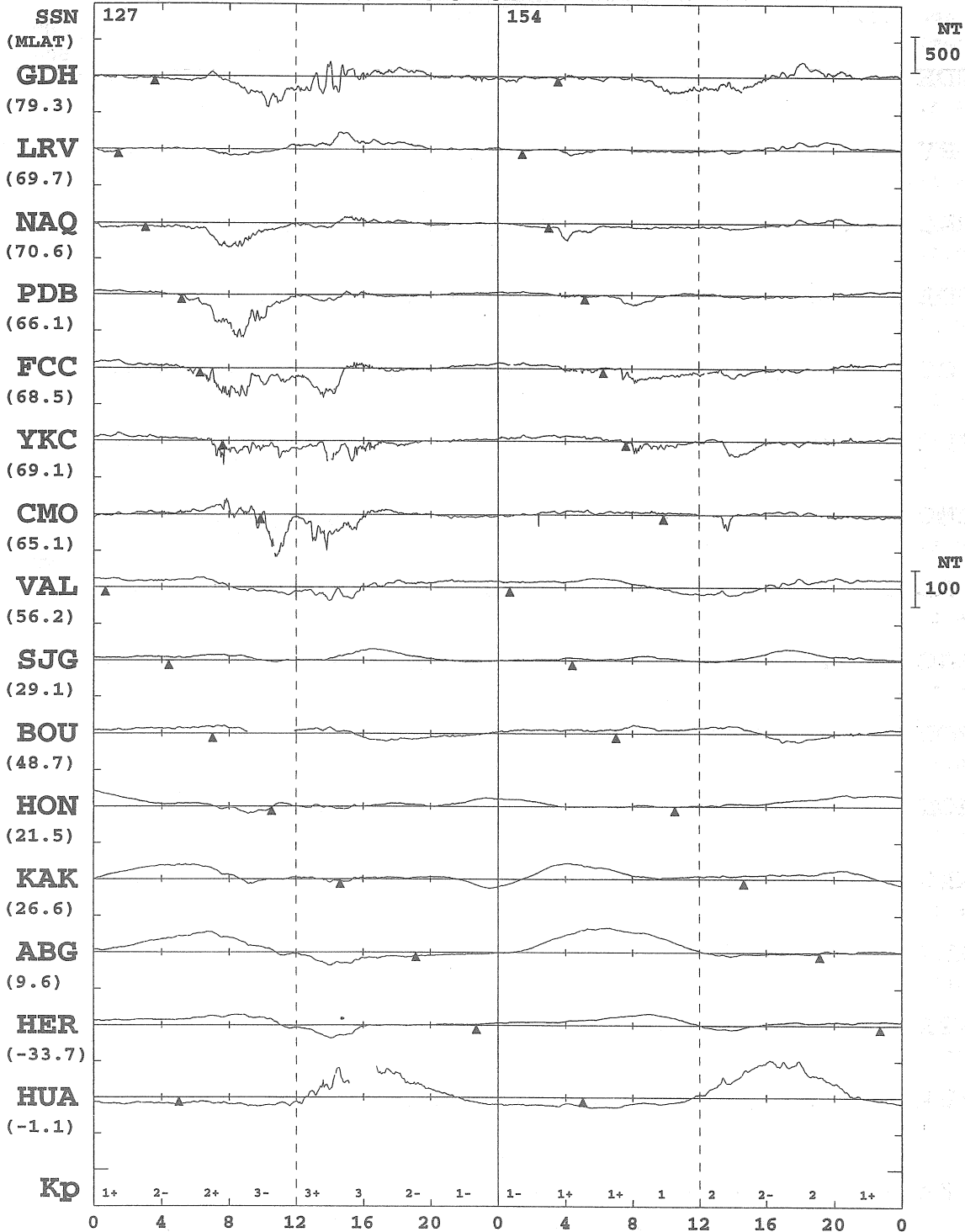
2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
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KYOTO UNIV.

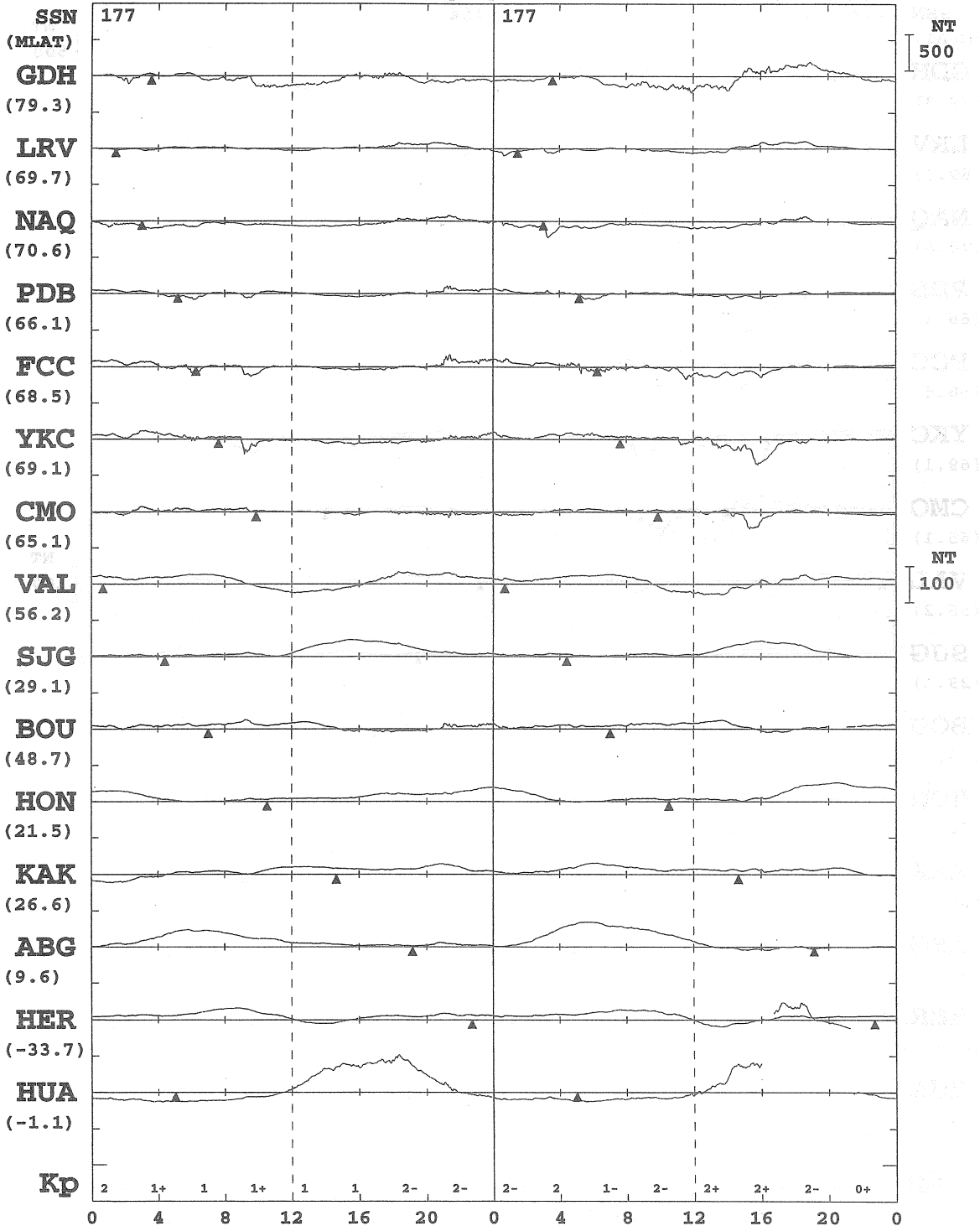
2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



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

KYOTO UNIV.

2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



JUL 7  
(DAY 189)

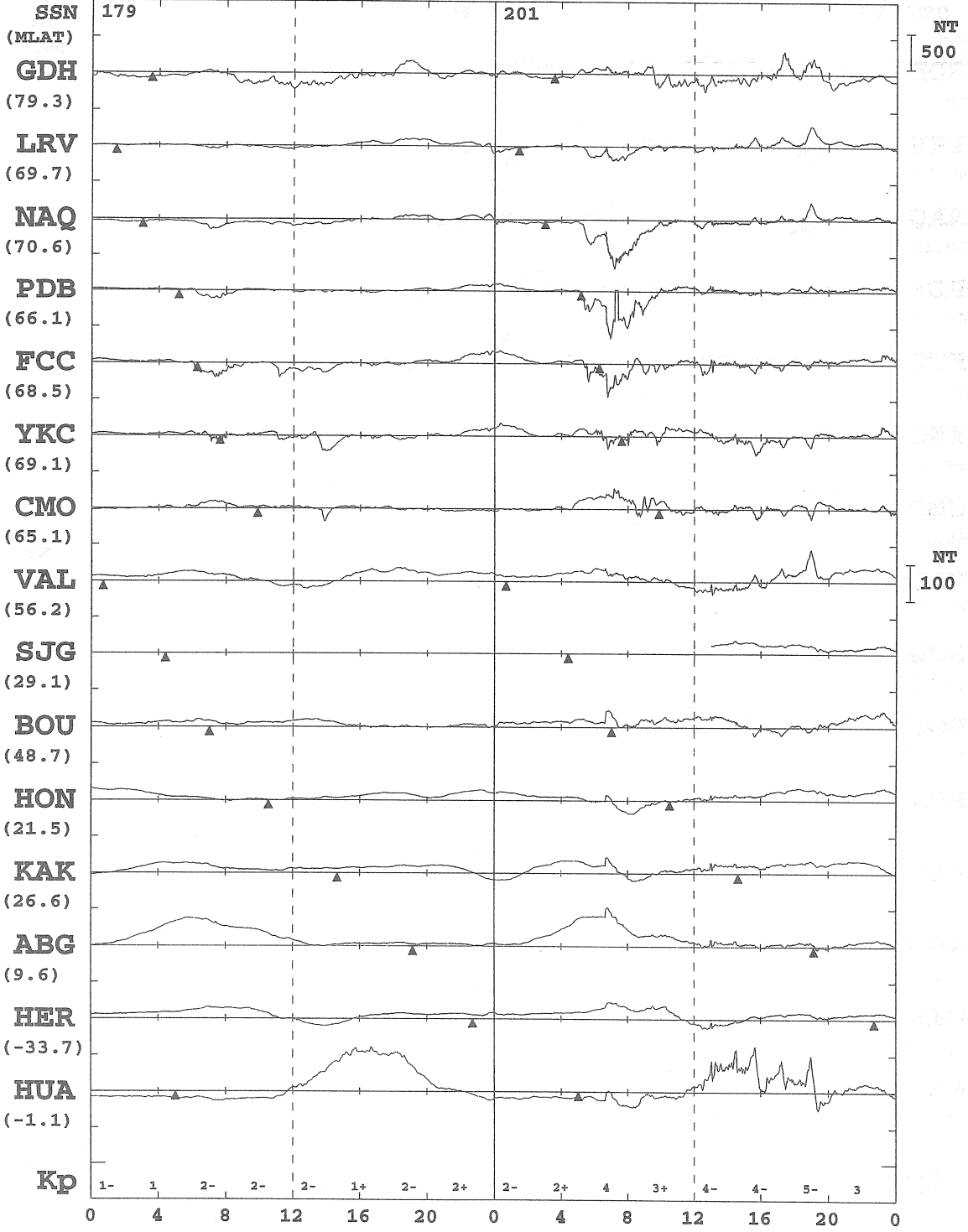
JUL 8  
(DAY 190)

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

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



**JUL 9**  
(DAY 191)

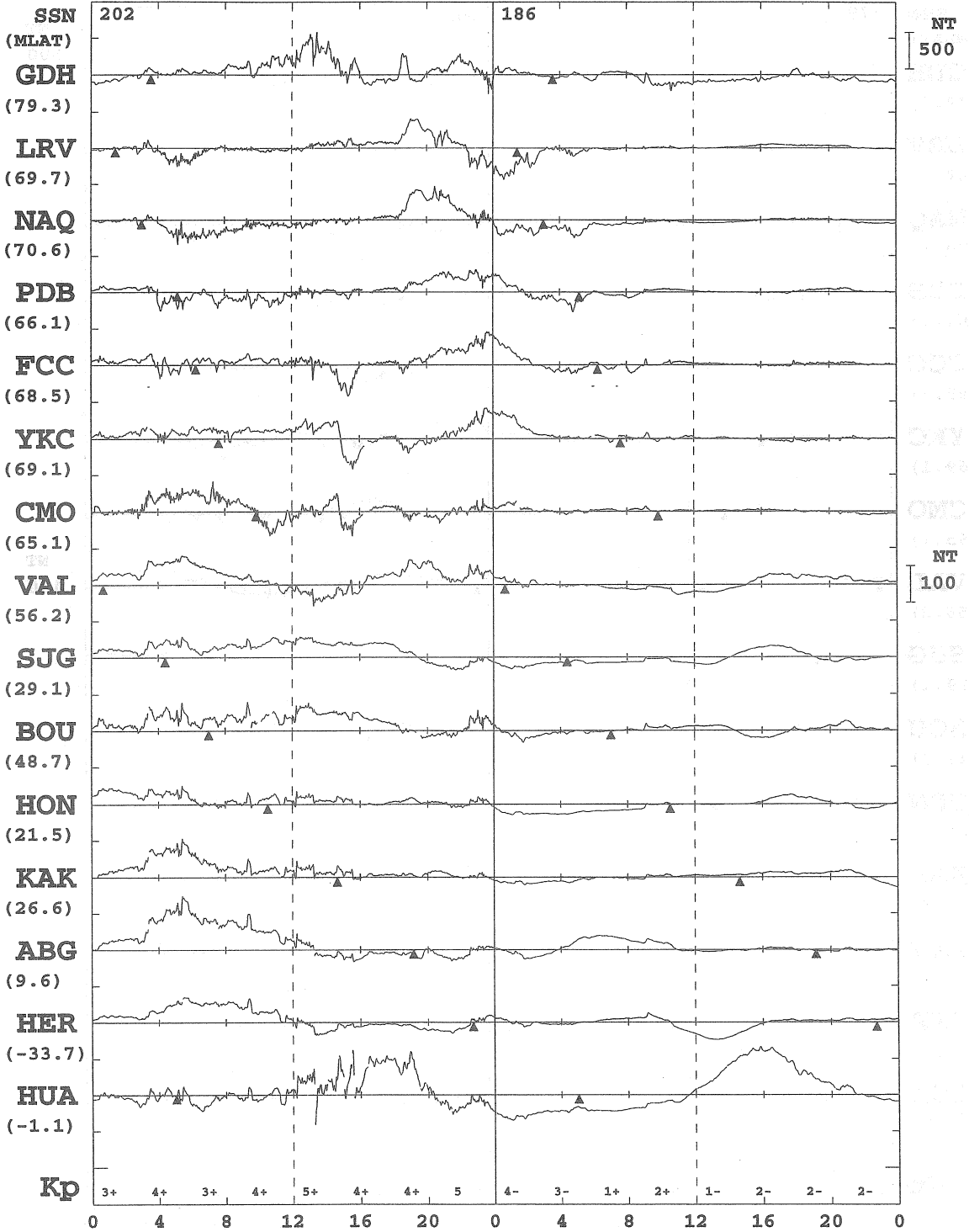
**JUL 10**  
(DAY 192)

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

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



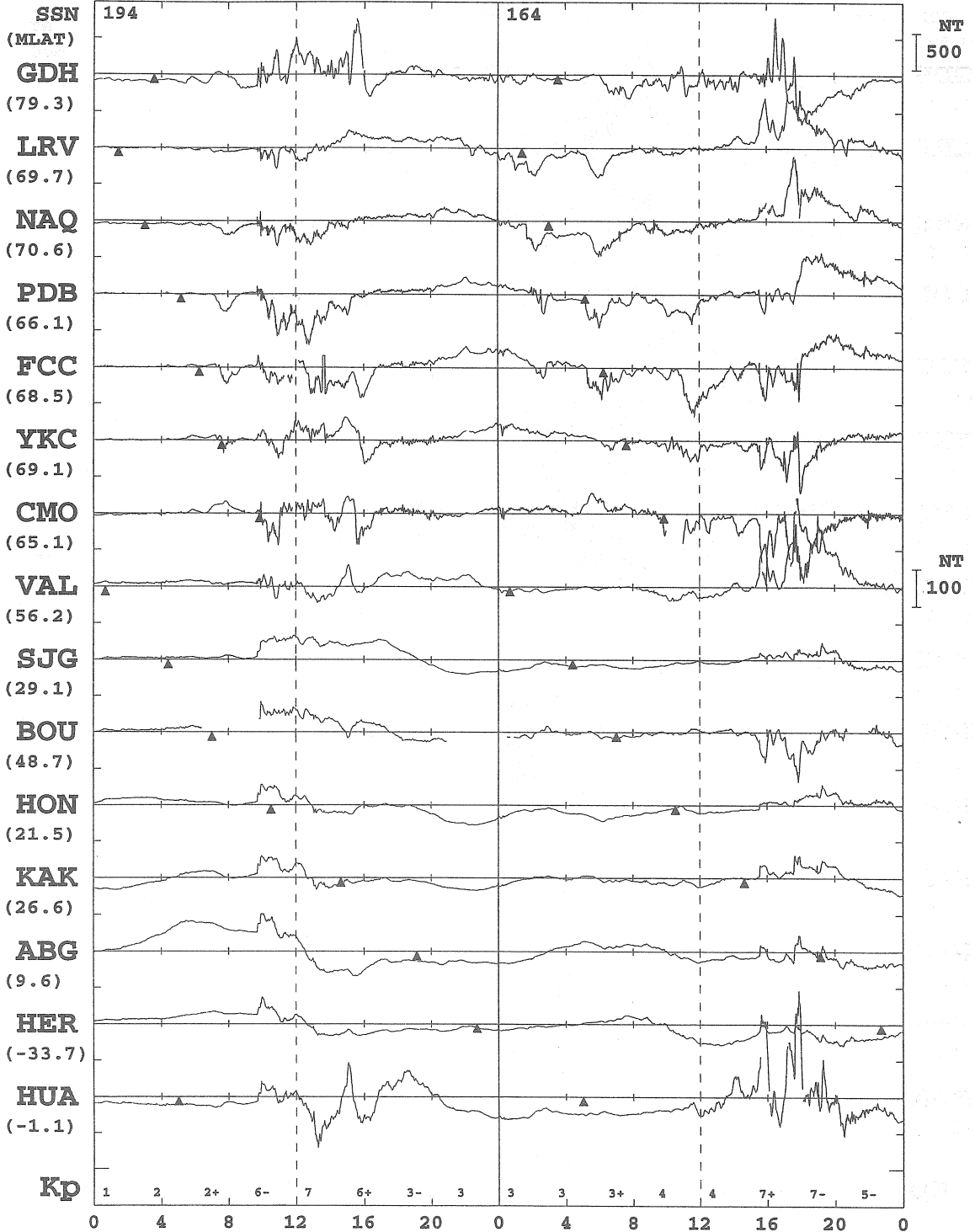
\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.



# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



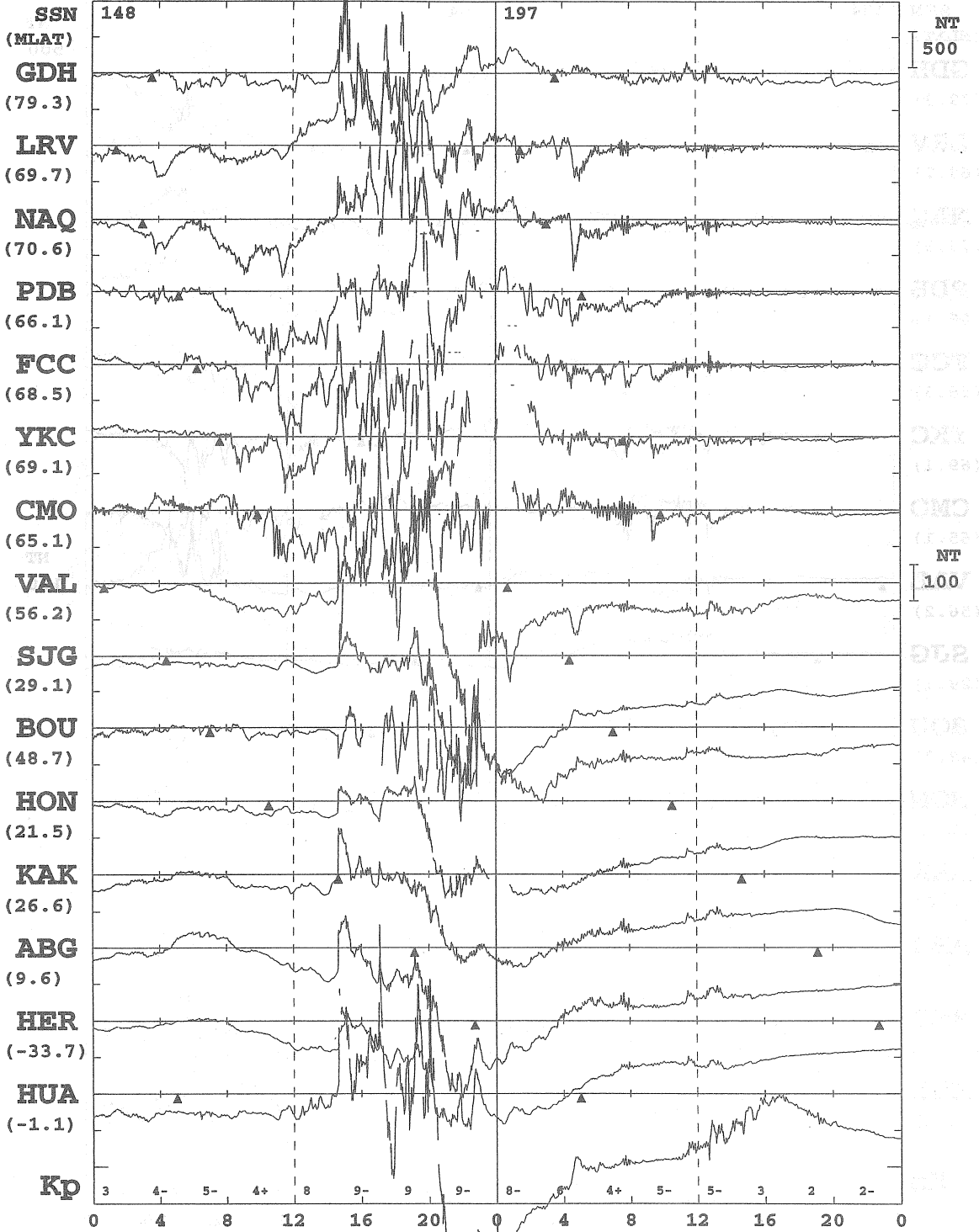
**JUL 13**  
(DAY 195)

**JUL 14**  
(DAY 196)

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

KYOTO UNIV.

2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

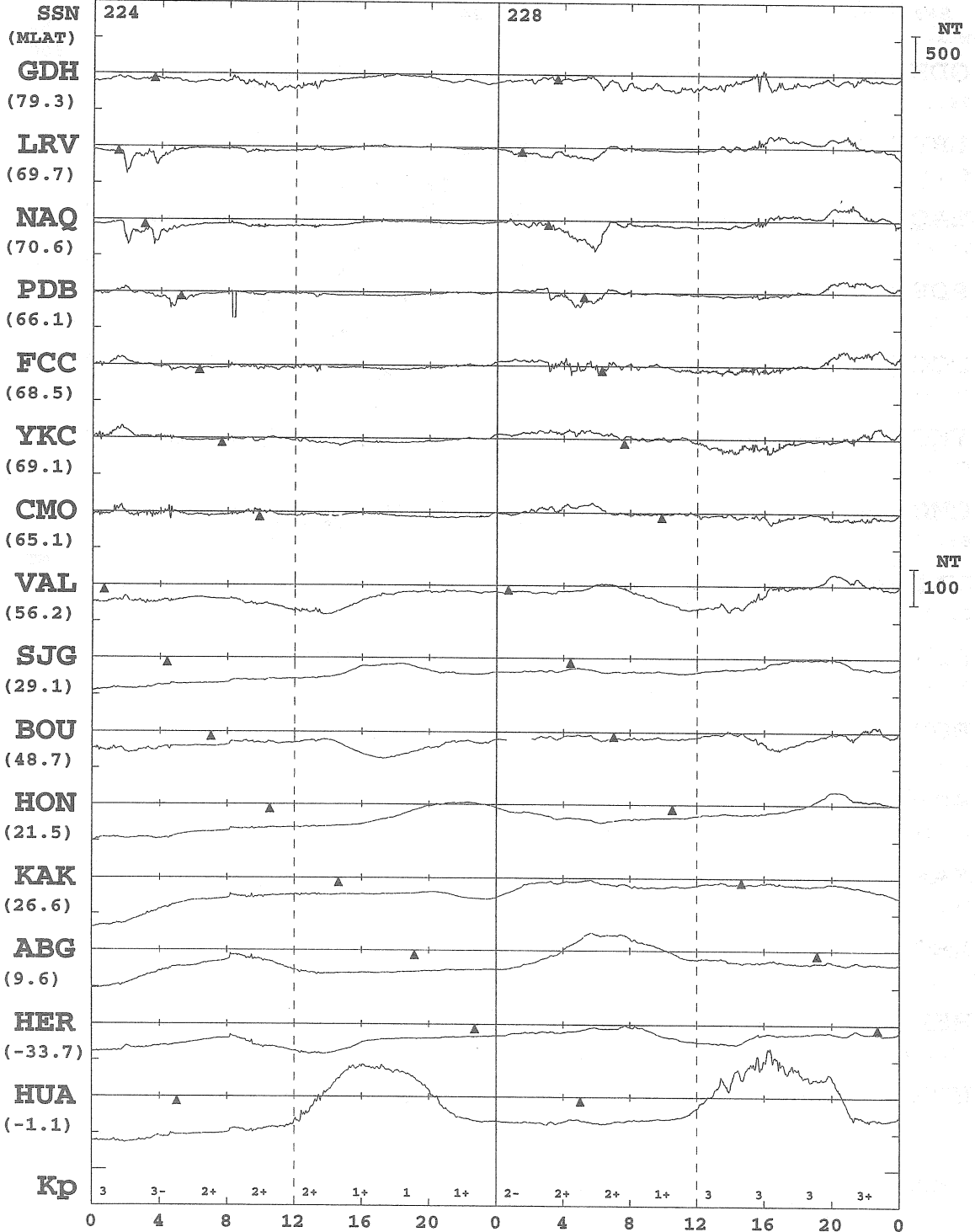


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

△ : LOCAL MIDNIGHT



JUL 17  
(DAY 199)

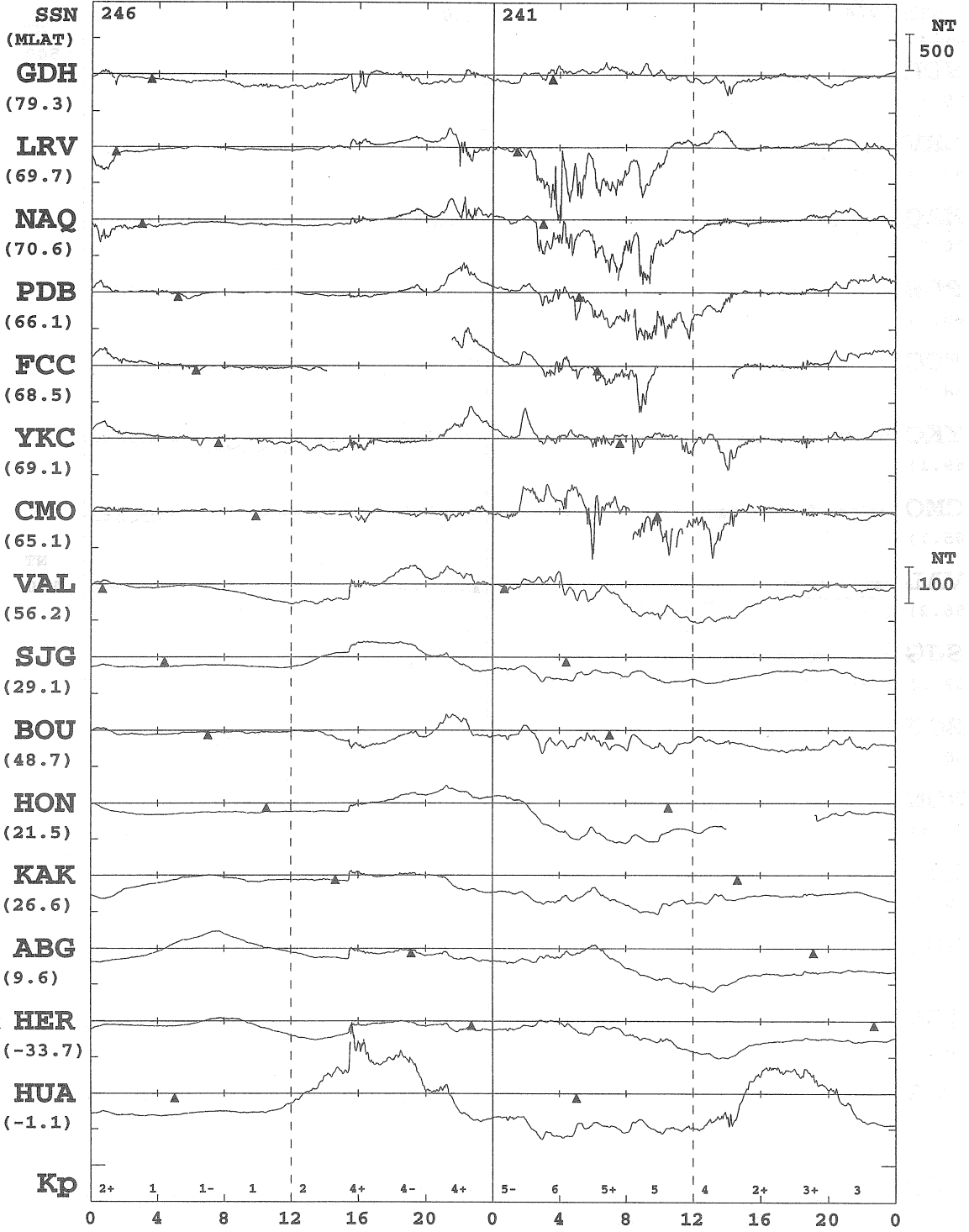
JUL 18  
(DAY 200)

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

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

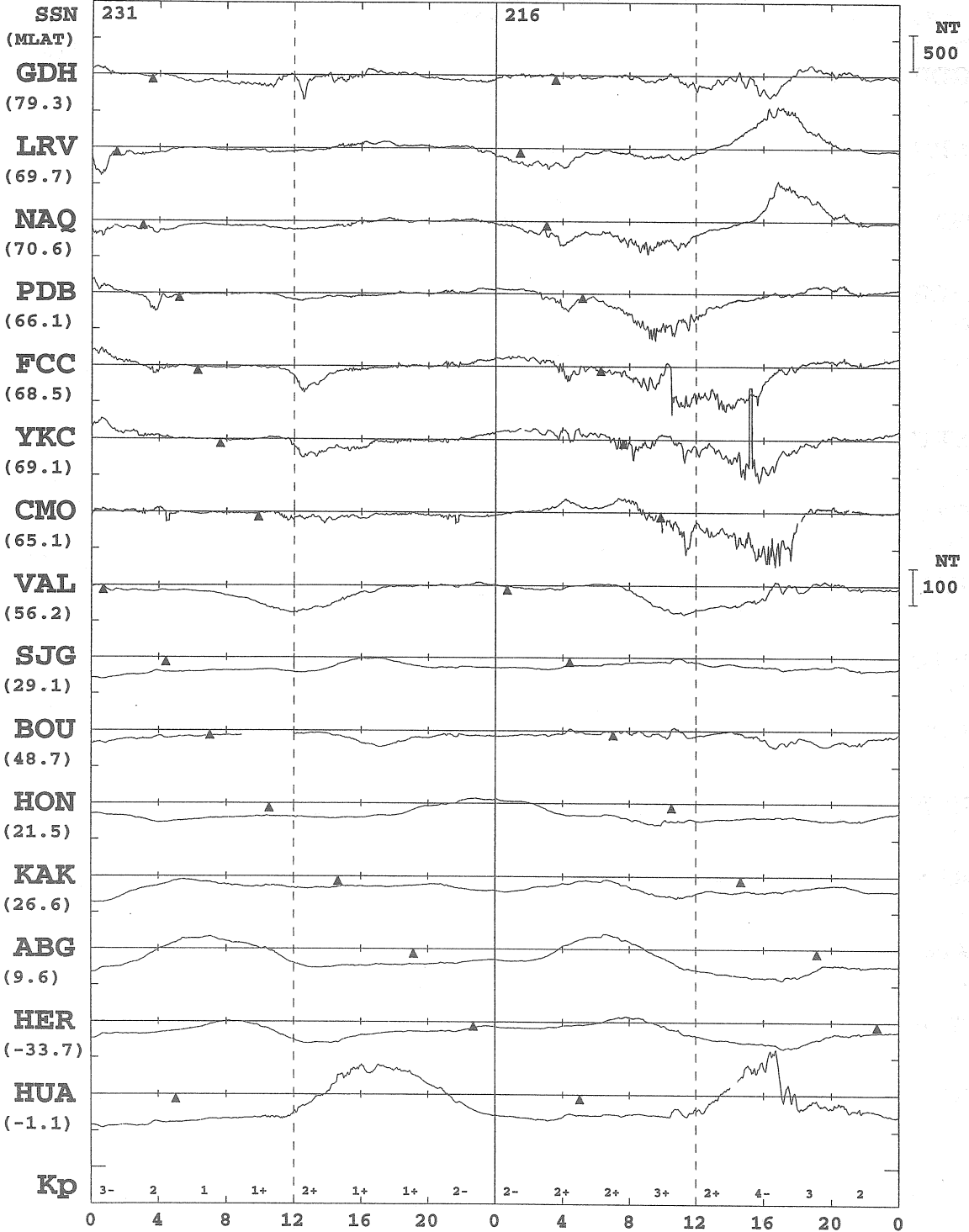


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



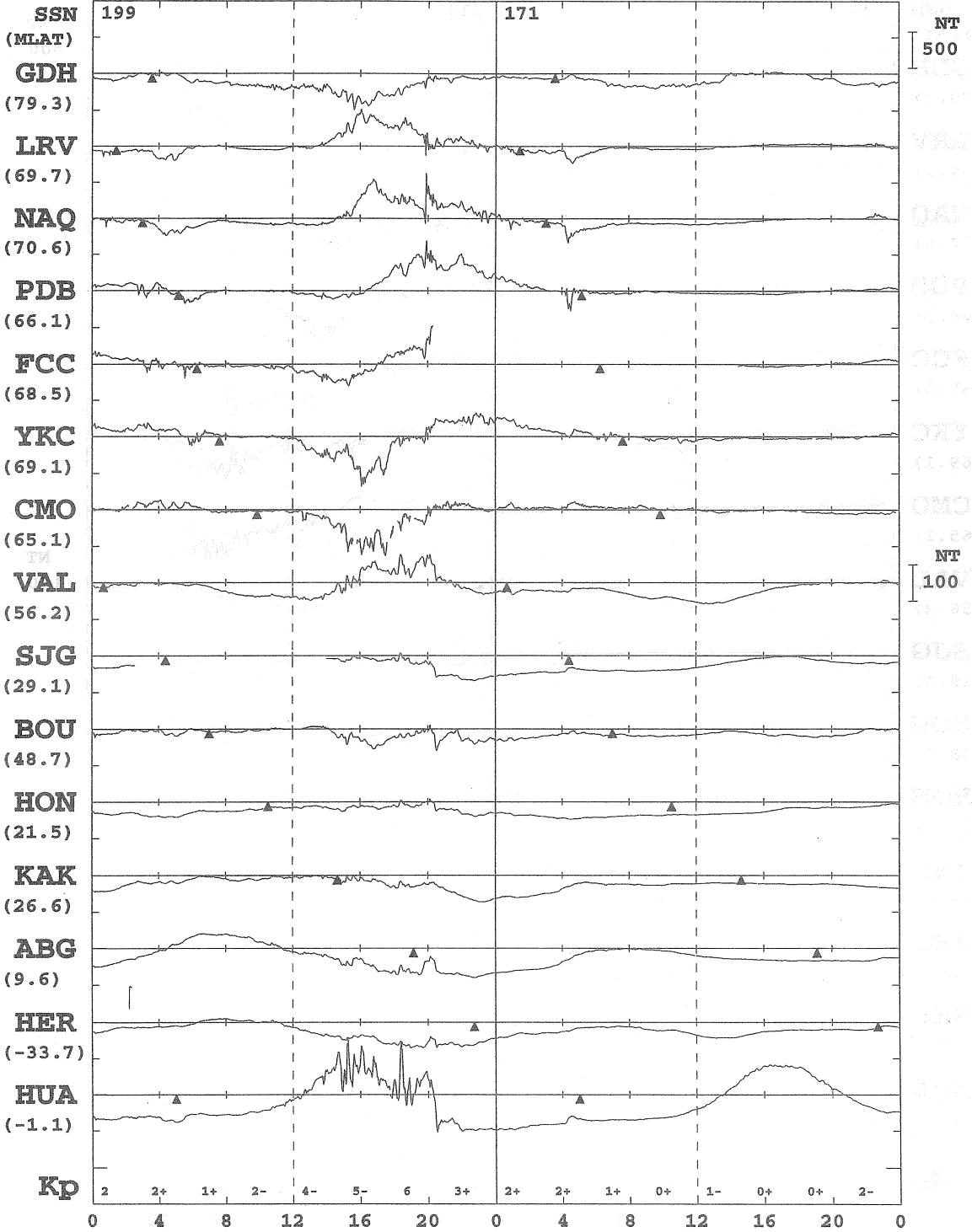
JUL 21  
(DAY 203)

JUL 22  
(DAY 204)

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

KYOTO UNIV.

2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



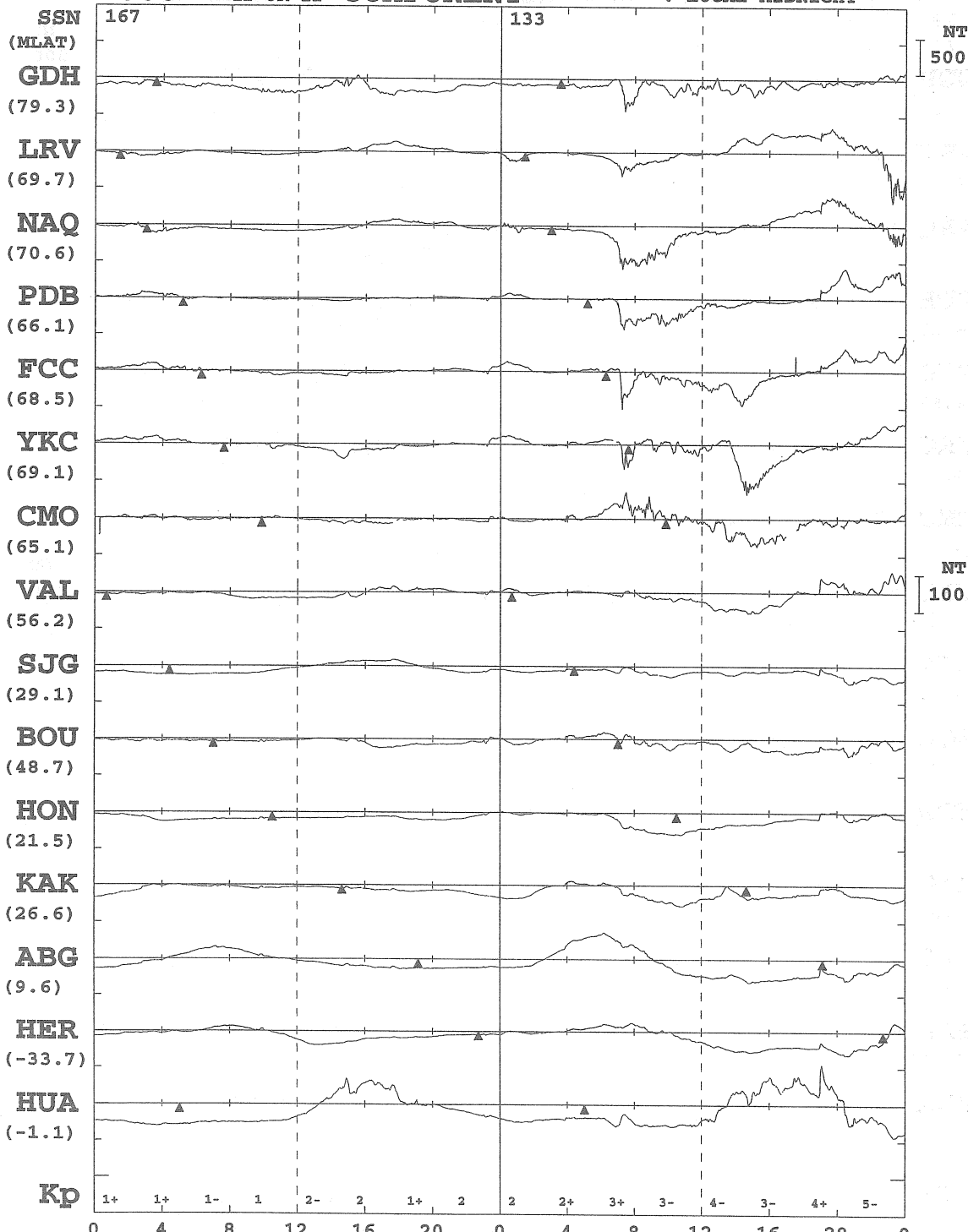
\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.



# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



**JUL 25**  
(DAY 207)

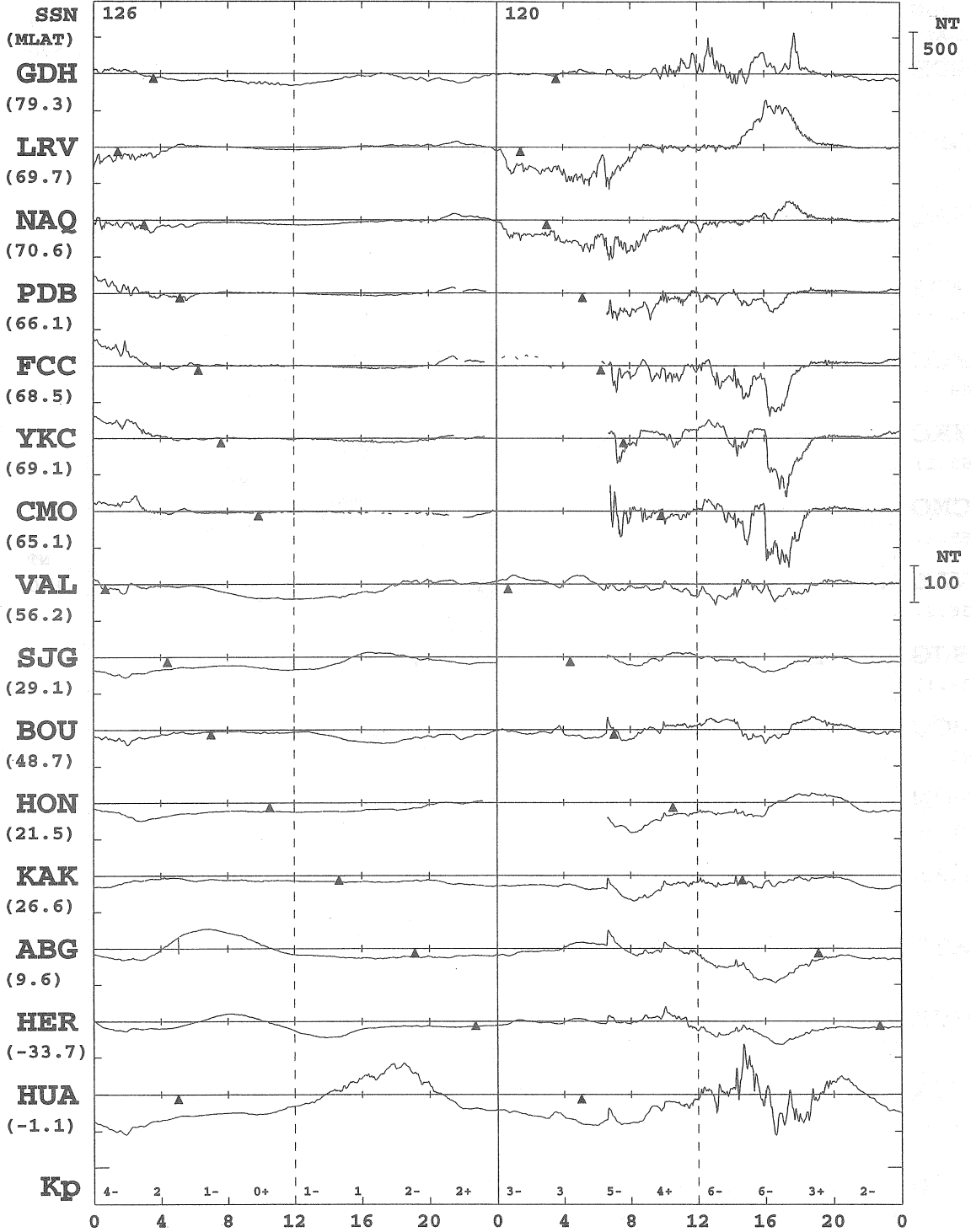
**JUL 26**  
(DAY 208)

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

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# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

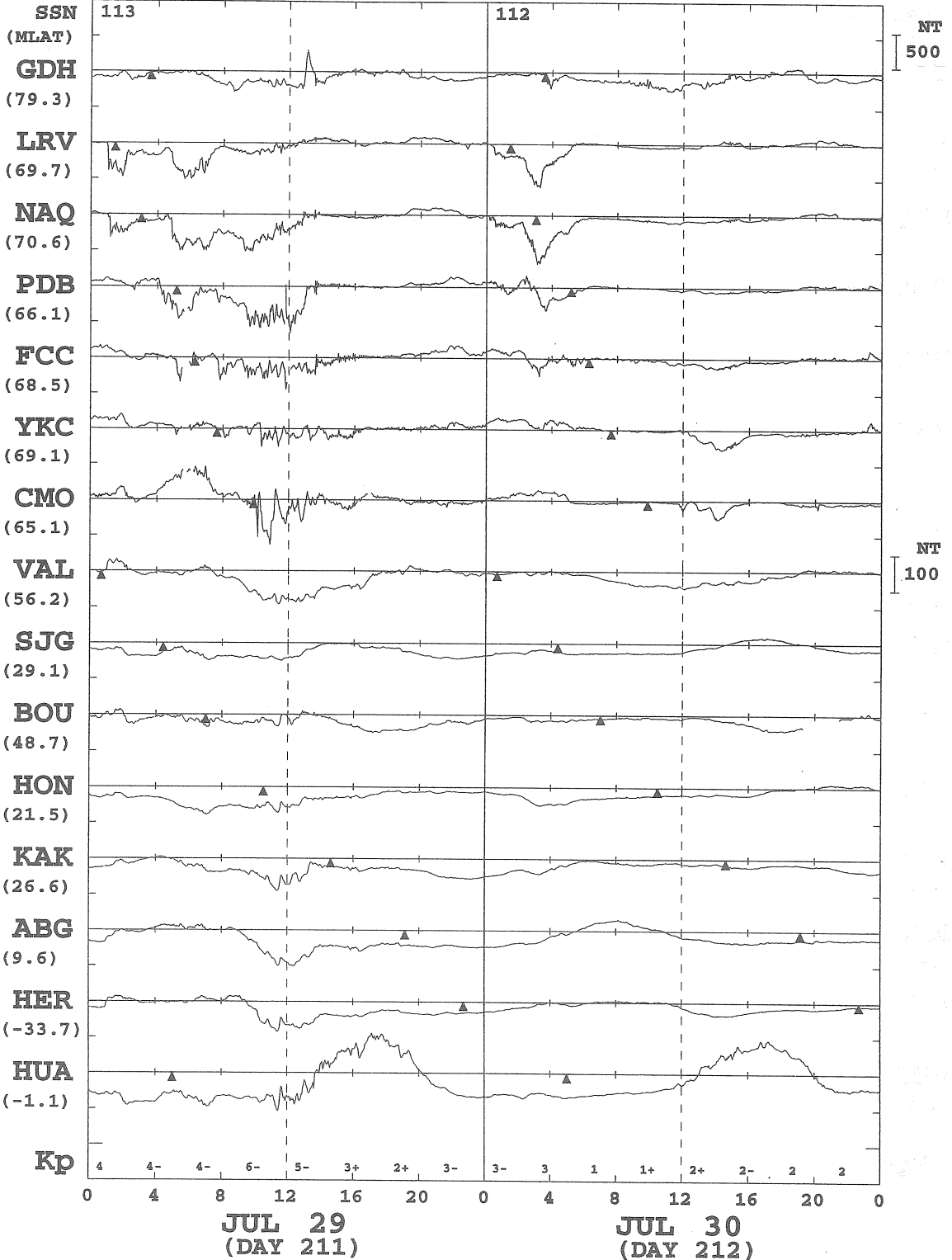


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

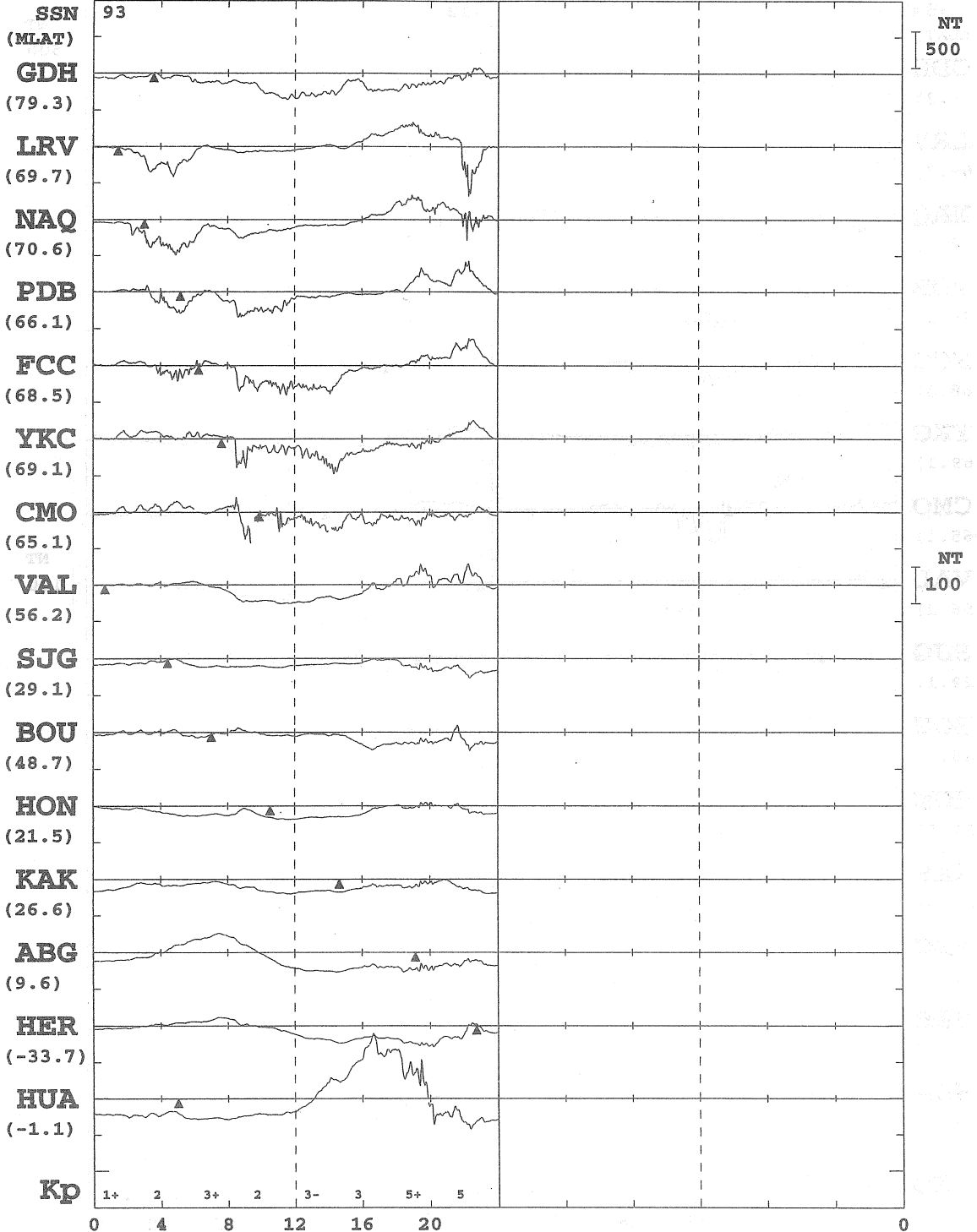
▲ : LOCAL MIDNIGHT



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

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2000 H OR X-COMPONENT  $\Delta$  : LOCAL MIDNIGHT

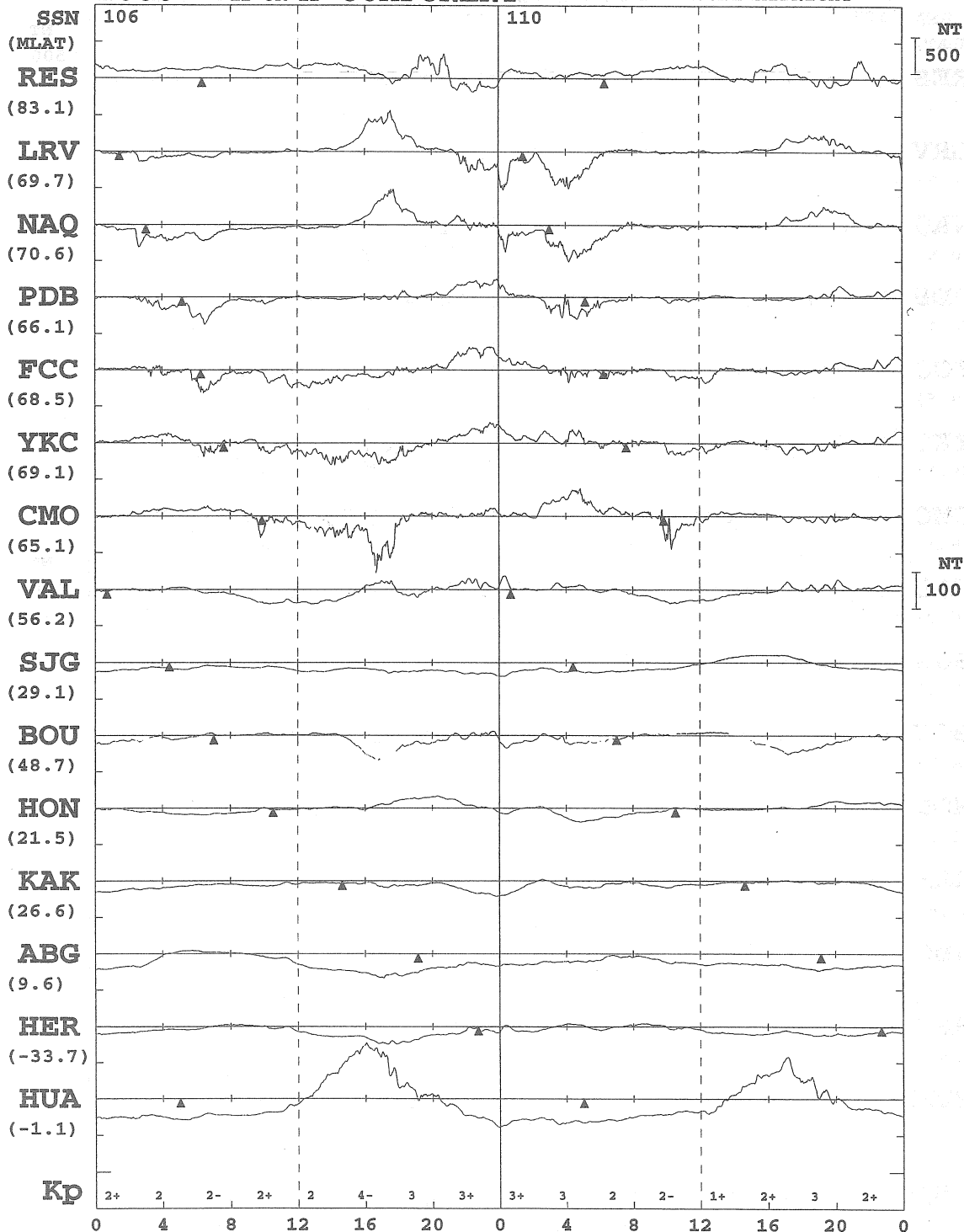


JUL 31  
(DAY 213)

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

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2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



AUG 1  
(DAY 214)

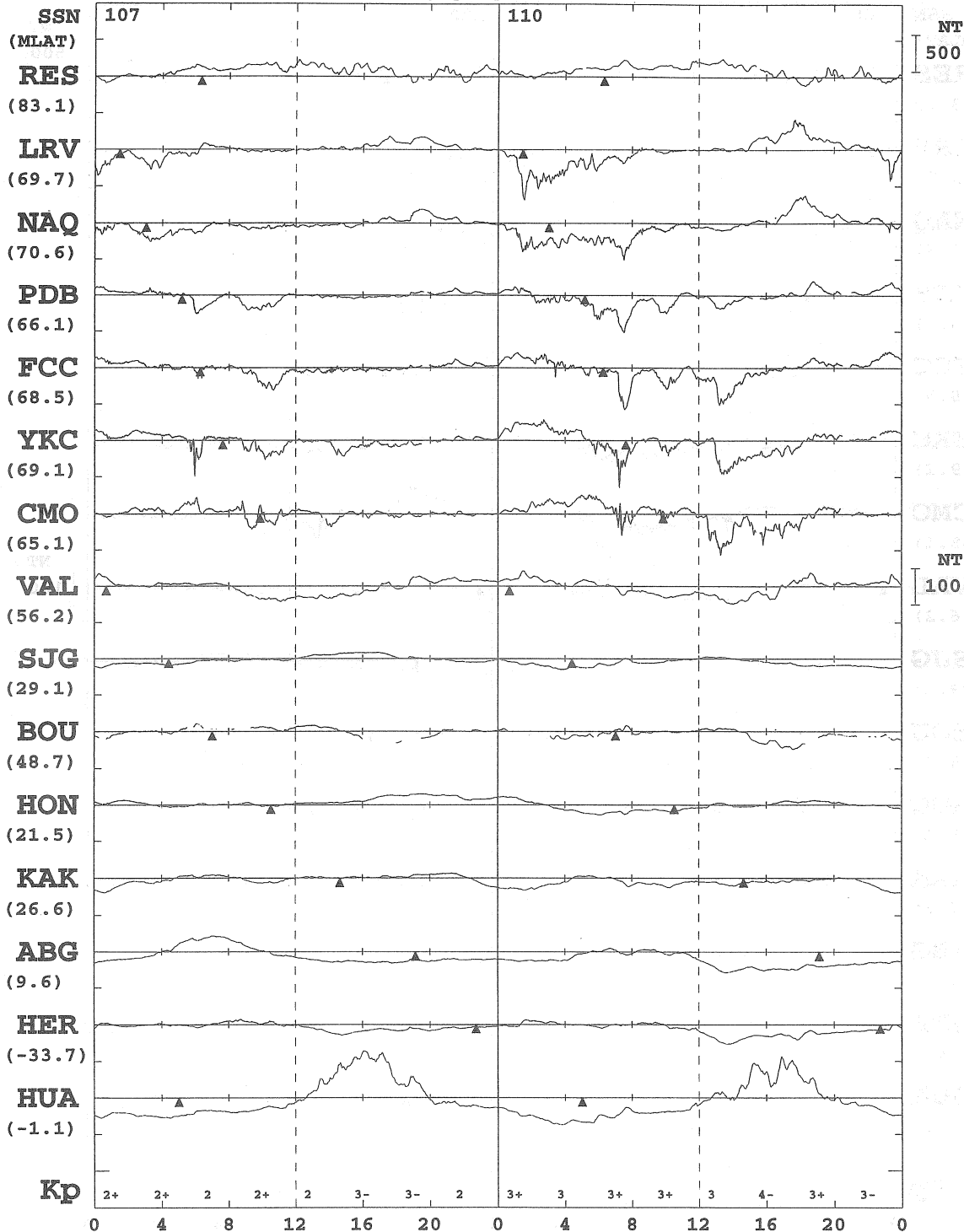
AUG 2  
(DAY 215)

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

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# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



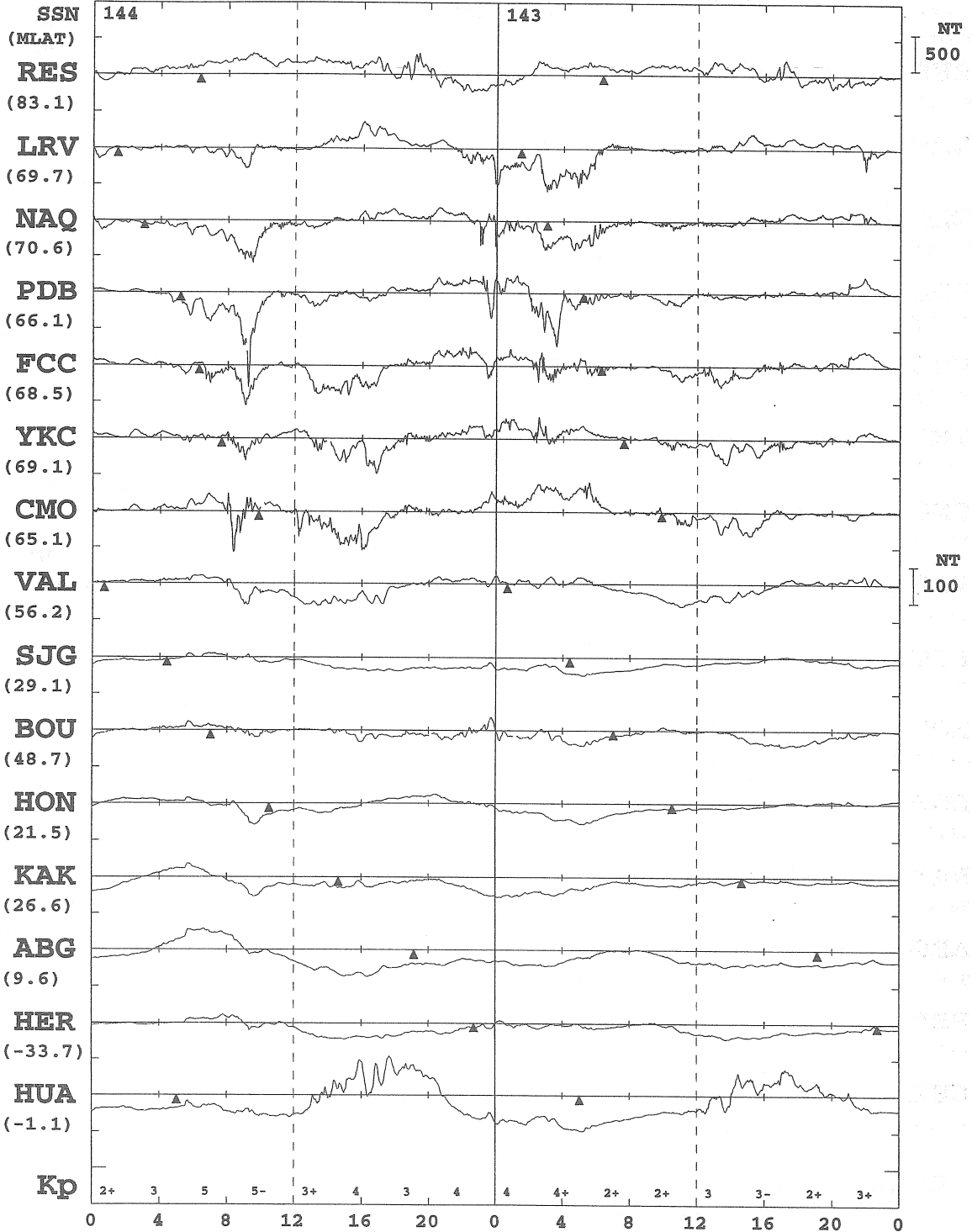
\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

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# 2000 H OR X-COMPONENT

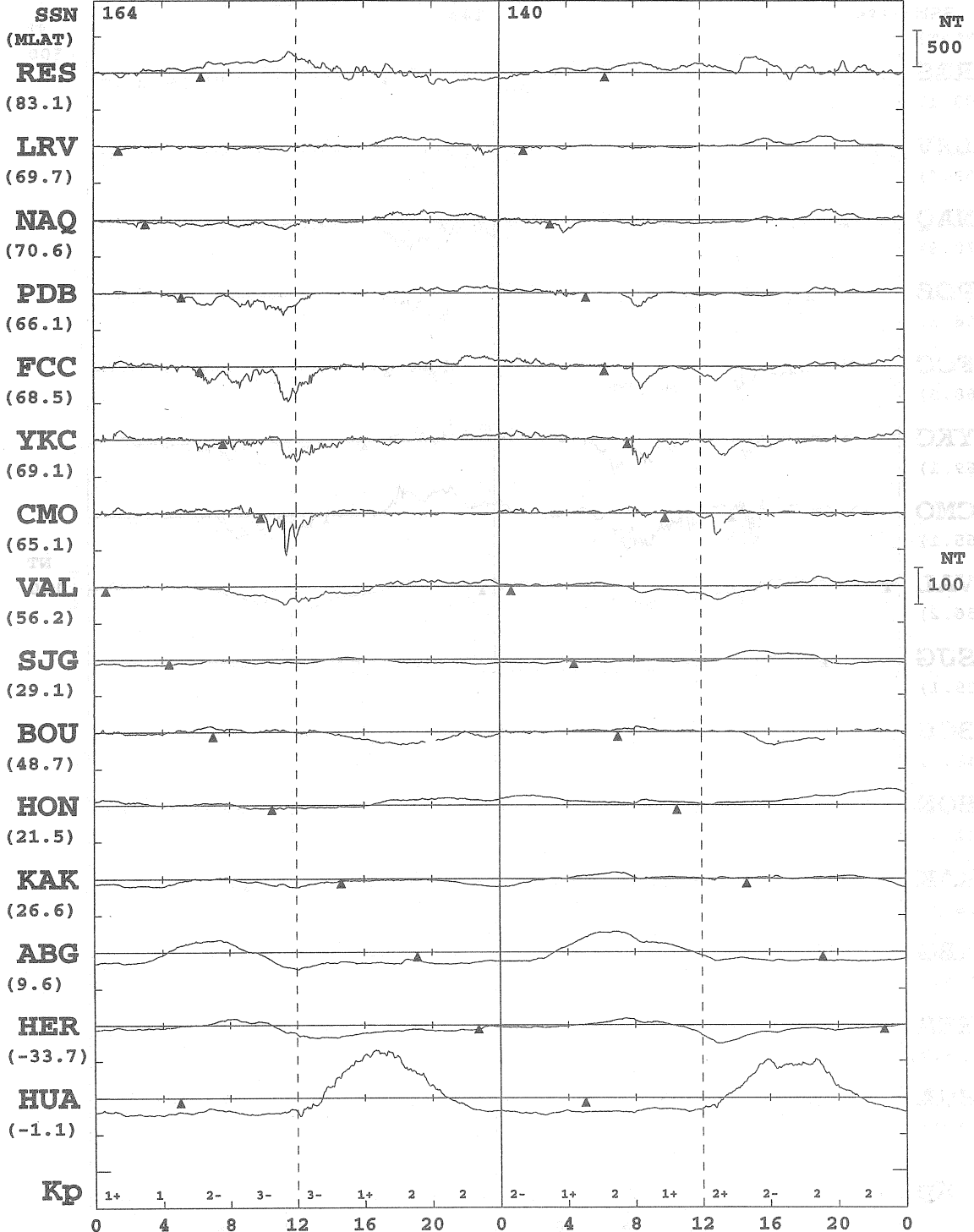
▲ : LOCAL MIDNIGHT



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

KYOTO UNIV.

2000 H OR X-COMPONENT  $\Delta$  : LOCAL MIDNIGHT



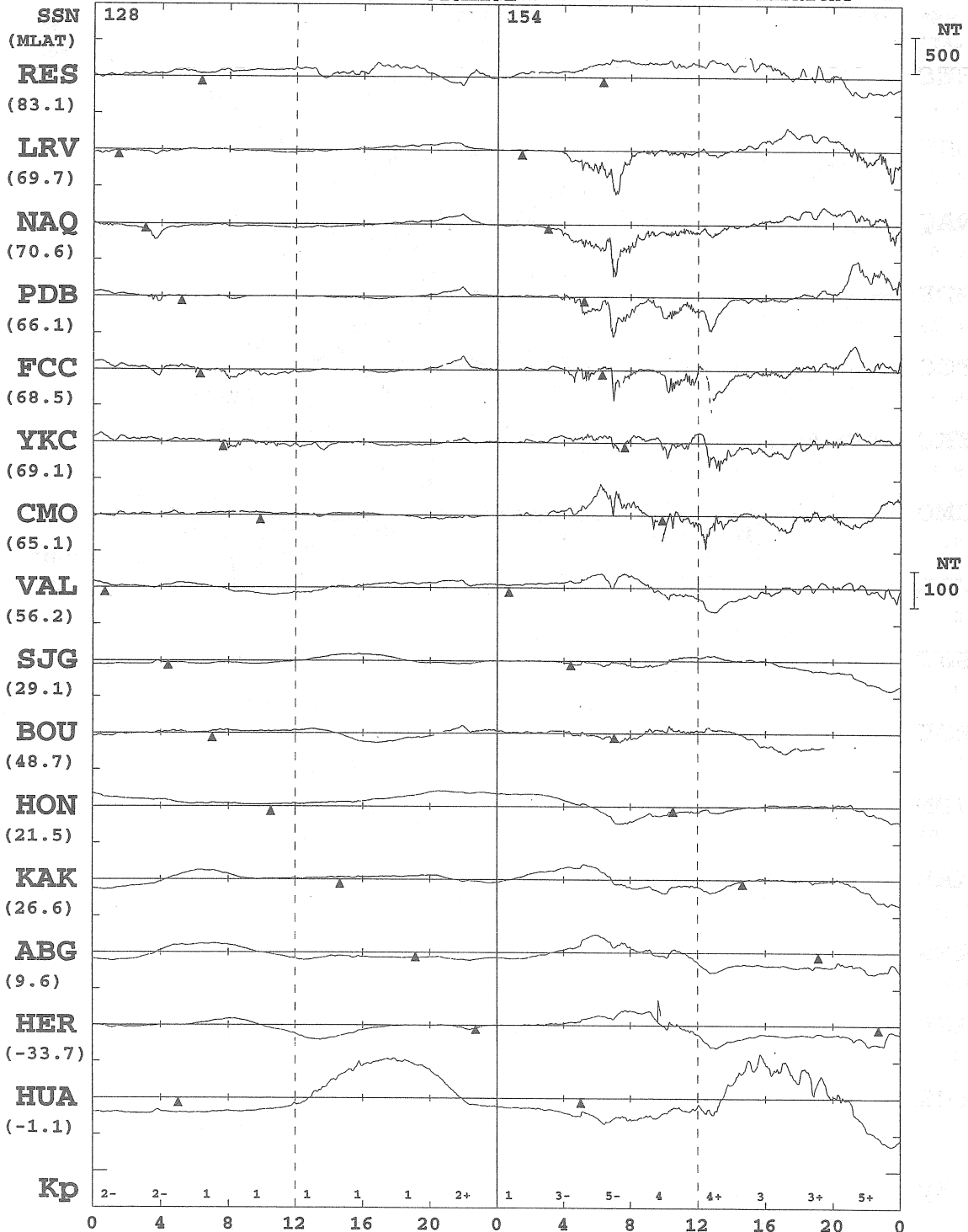
AUG 7  
(DAY 220)

AUG 8  
(DAY 221)

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

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2000 H OR X-COMPONENT  $\Delta$  : LOCAL MIDNIGHT



AUG 9  
(DAY 222)

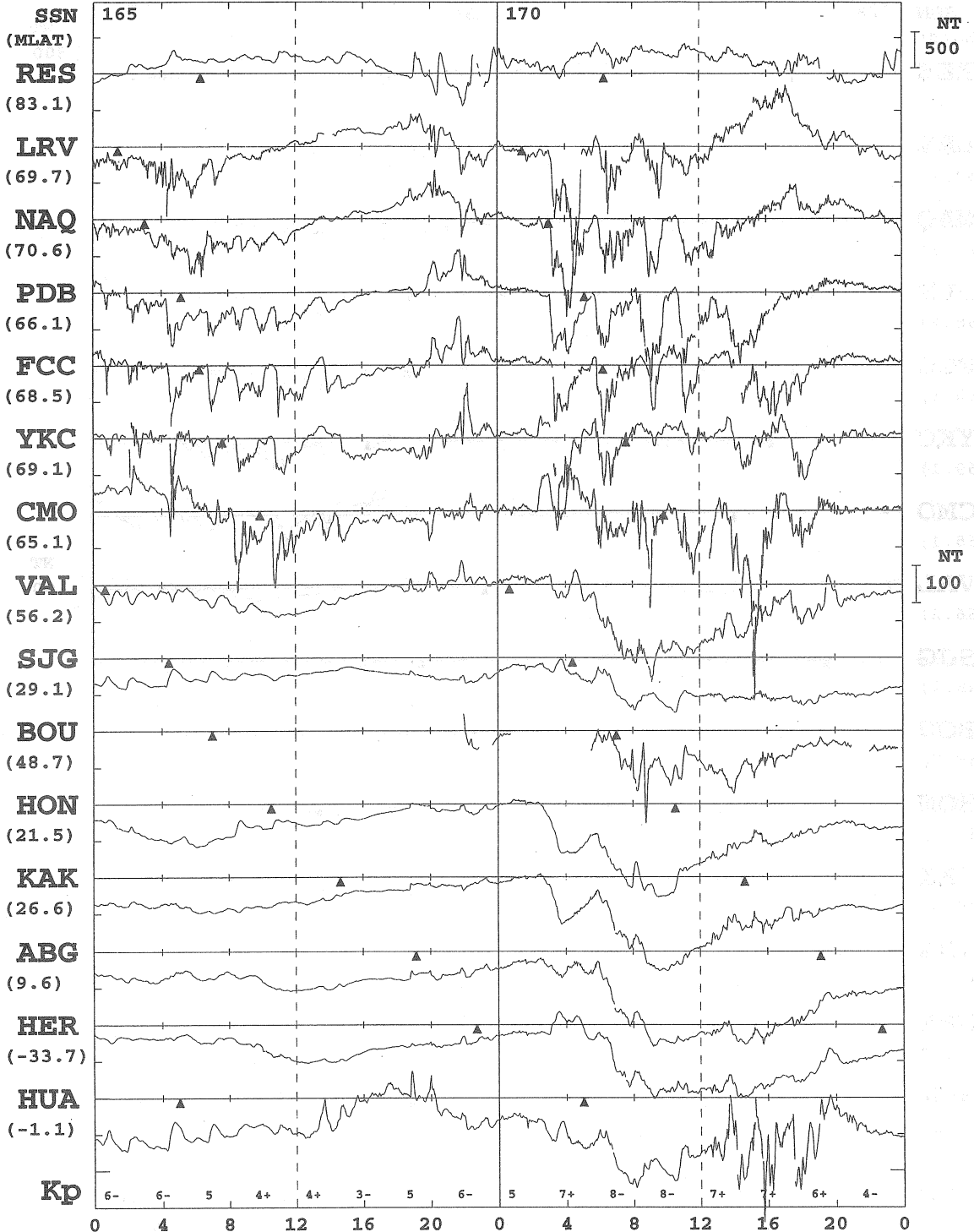
AUG 10  
(DAY 223)

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

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# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

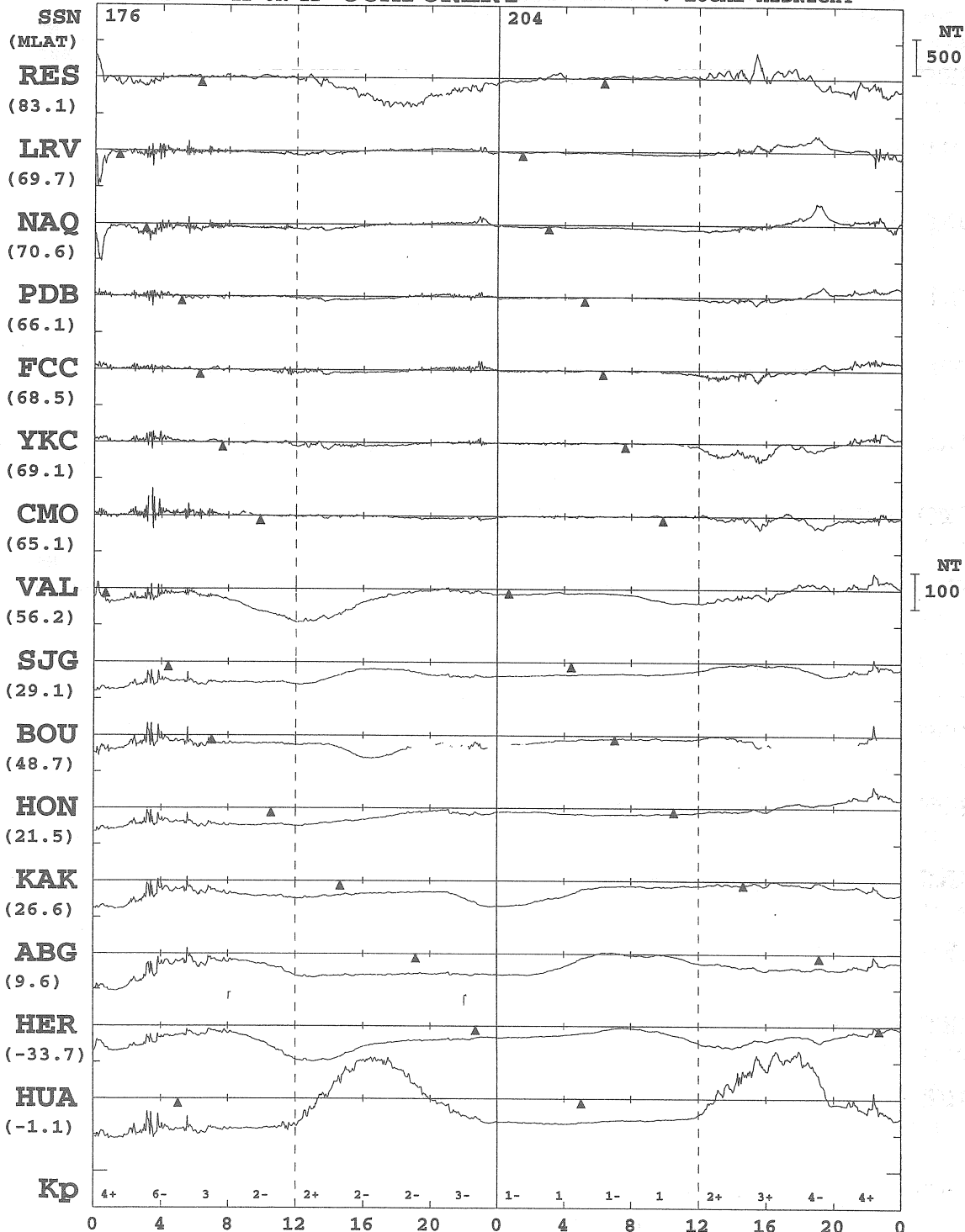


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
\* PROMPT DATA ARE INCLUDED  
\* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

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# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



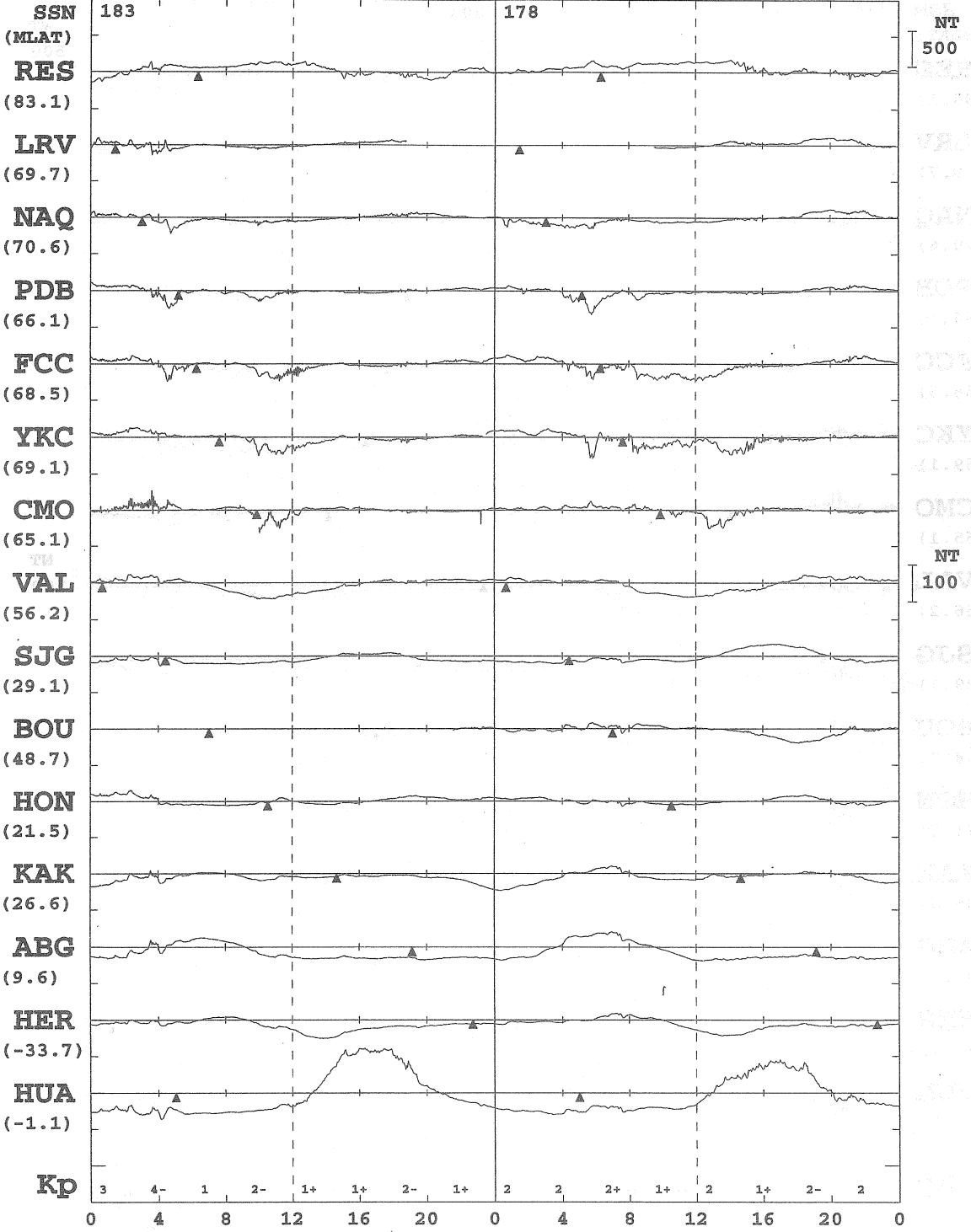
AUG 13  
(DAY 226)

AUG 14  
(DAY 227)

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

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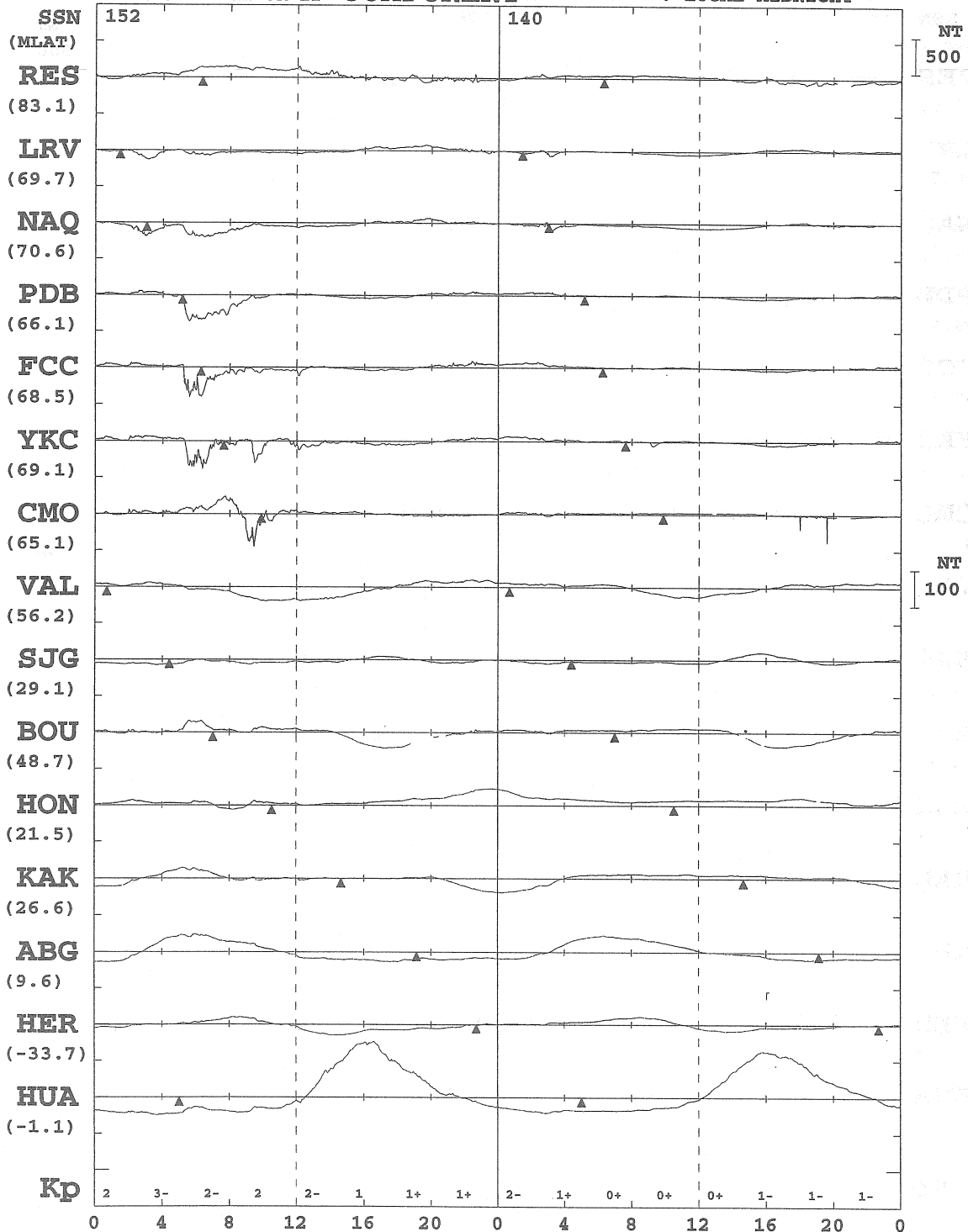
2000 H OR X-COMPONENT  $\Delta$  : LOCAL MIDNIGHT



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

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2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



AUG 17  
(DAY 230)

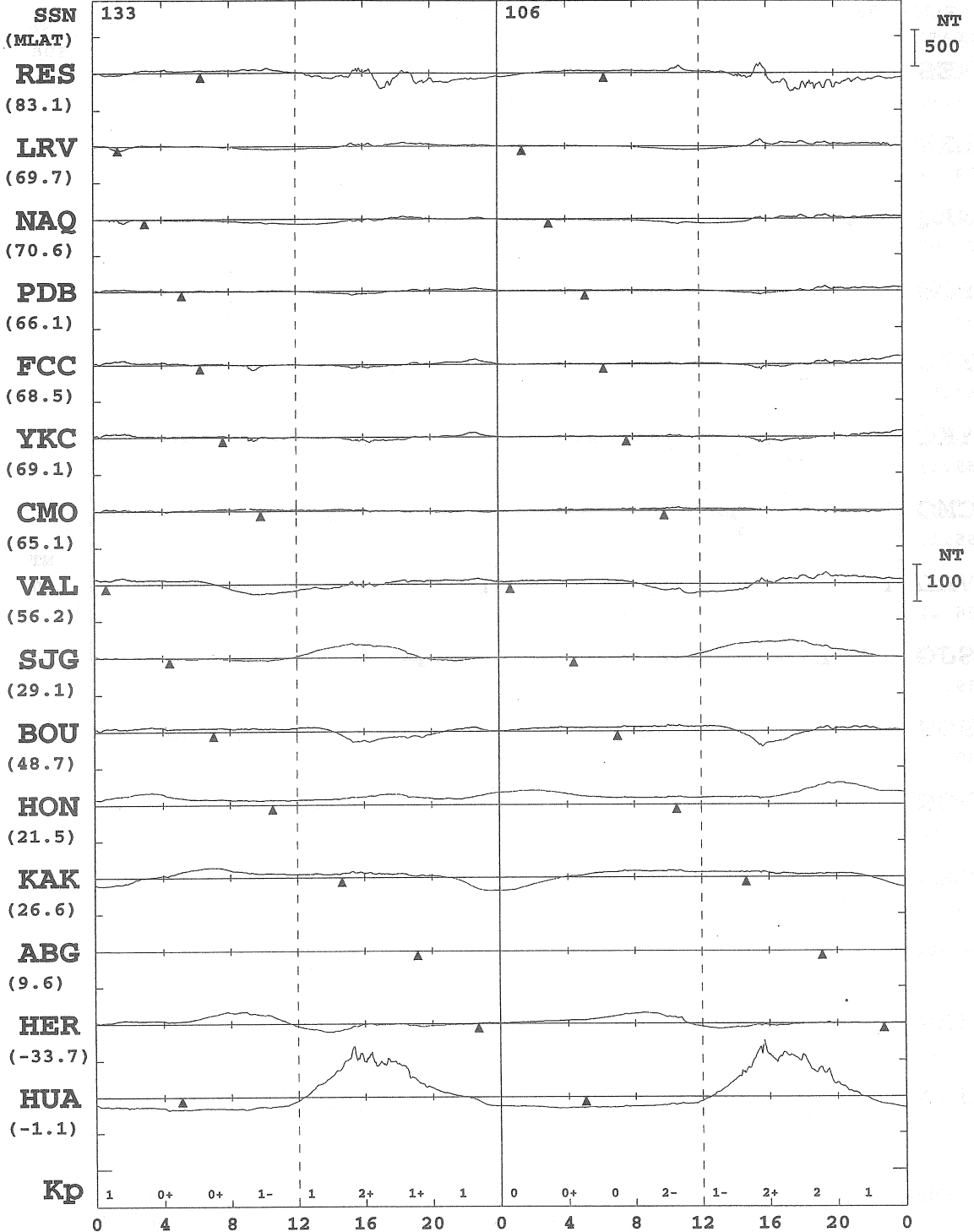
AUG 18  
(DAY 231)

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

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# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



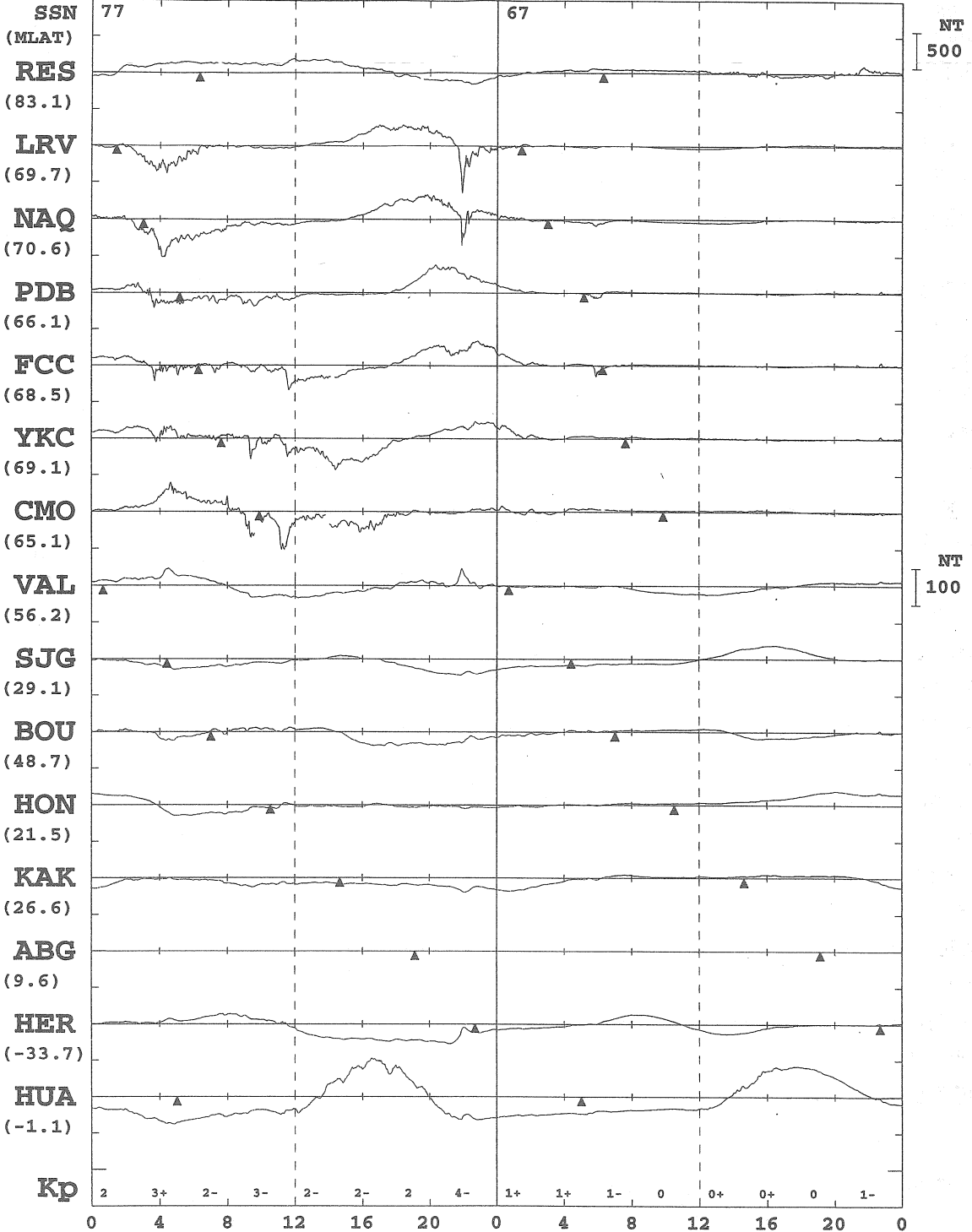
\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.



# 2000 H OR X-COMPONENT

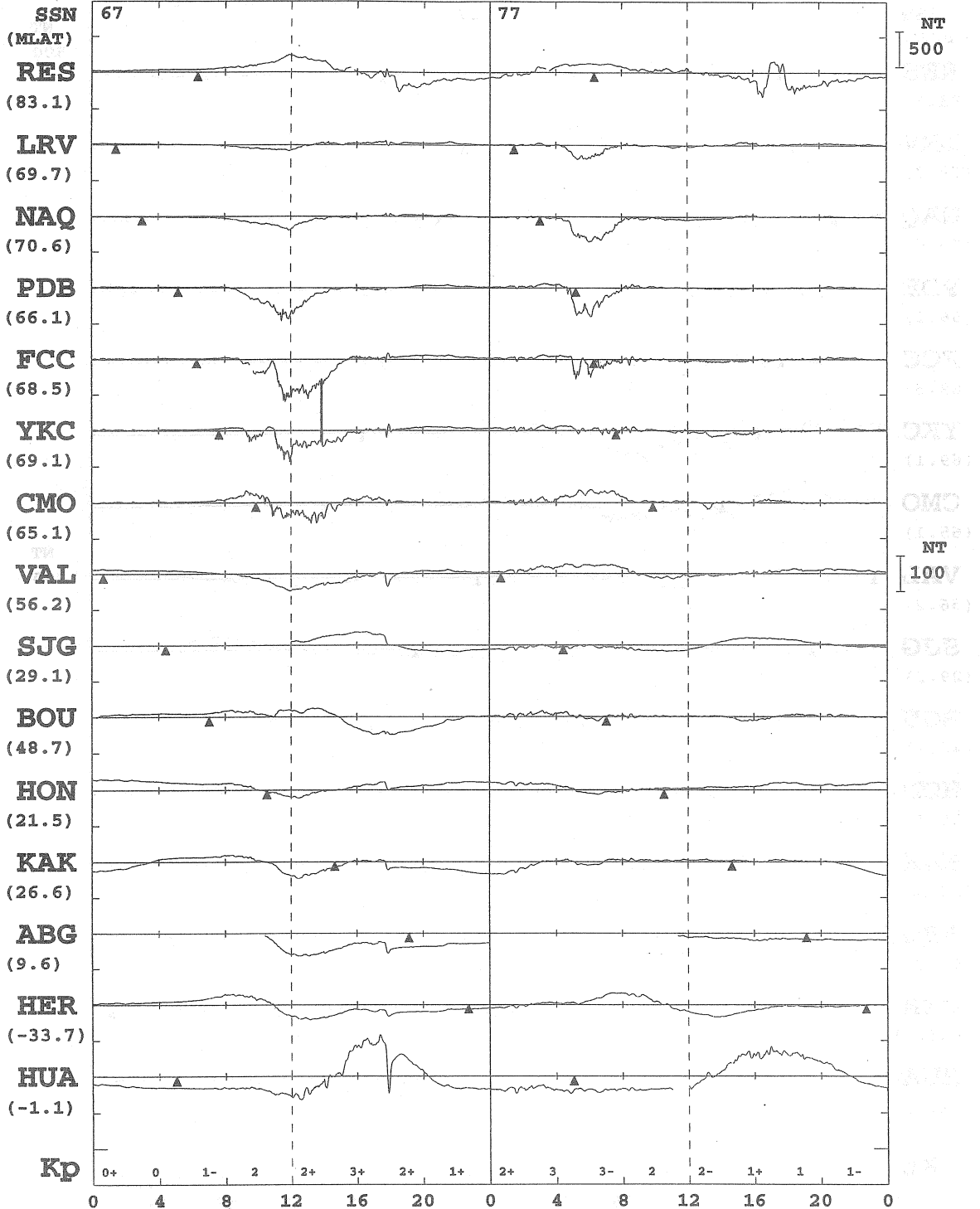
▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
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KYOTO UNIV.

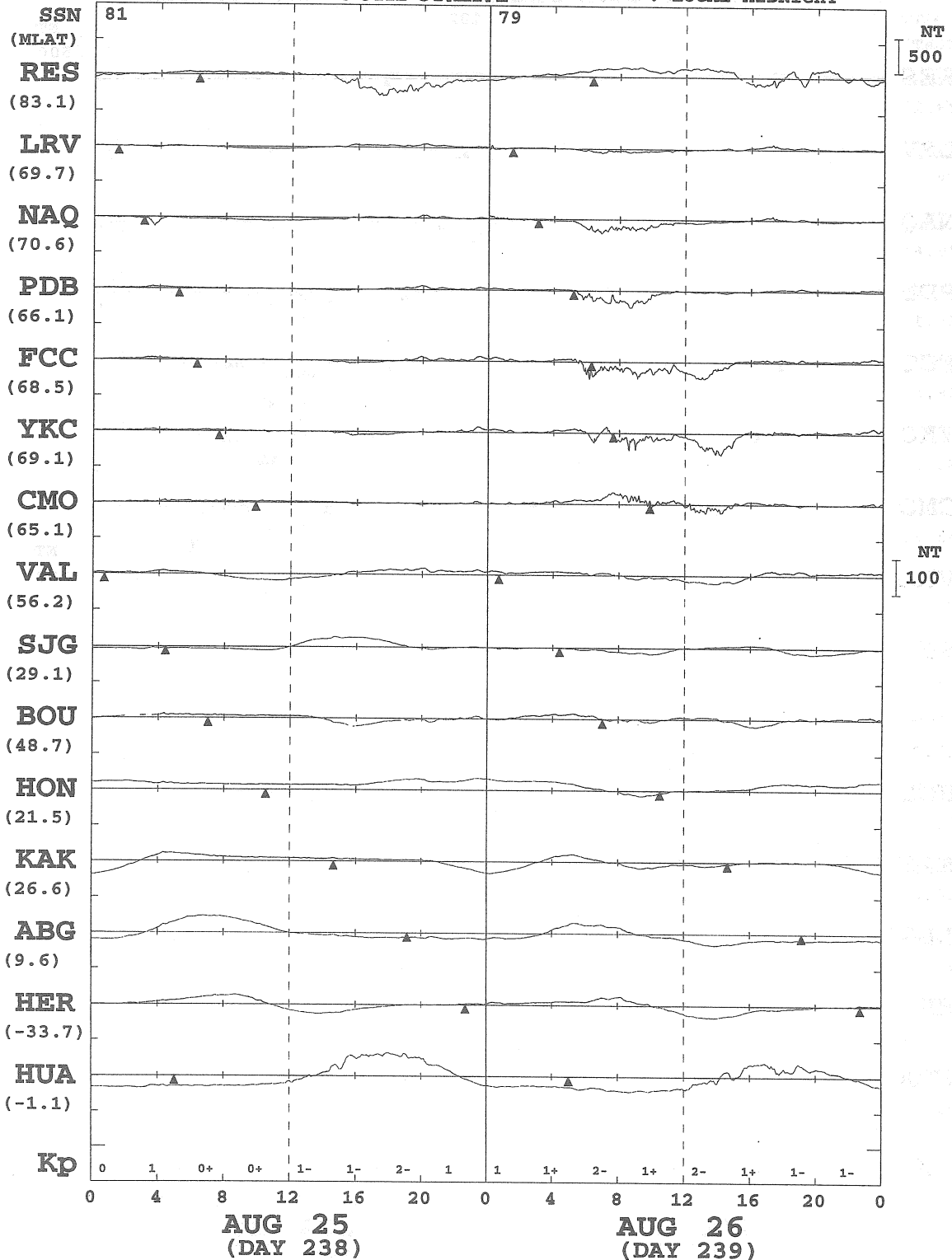
2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
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KYOTO UNIV.

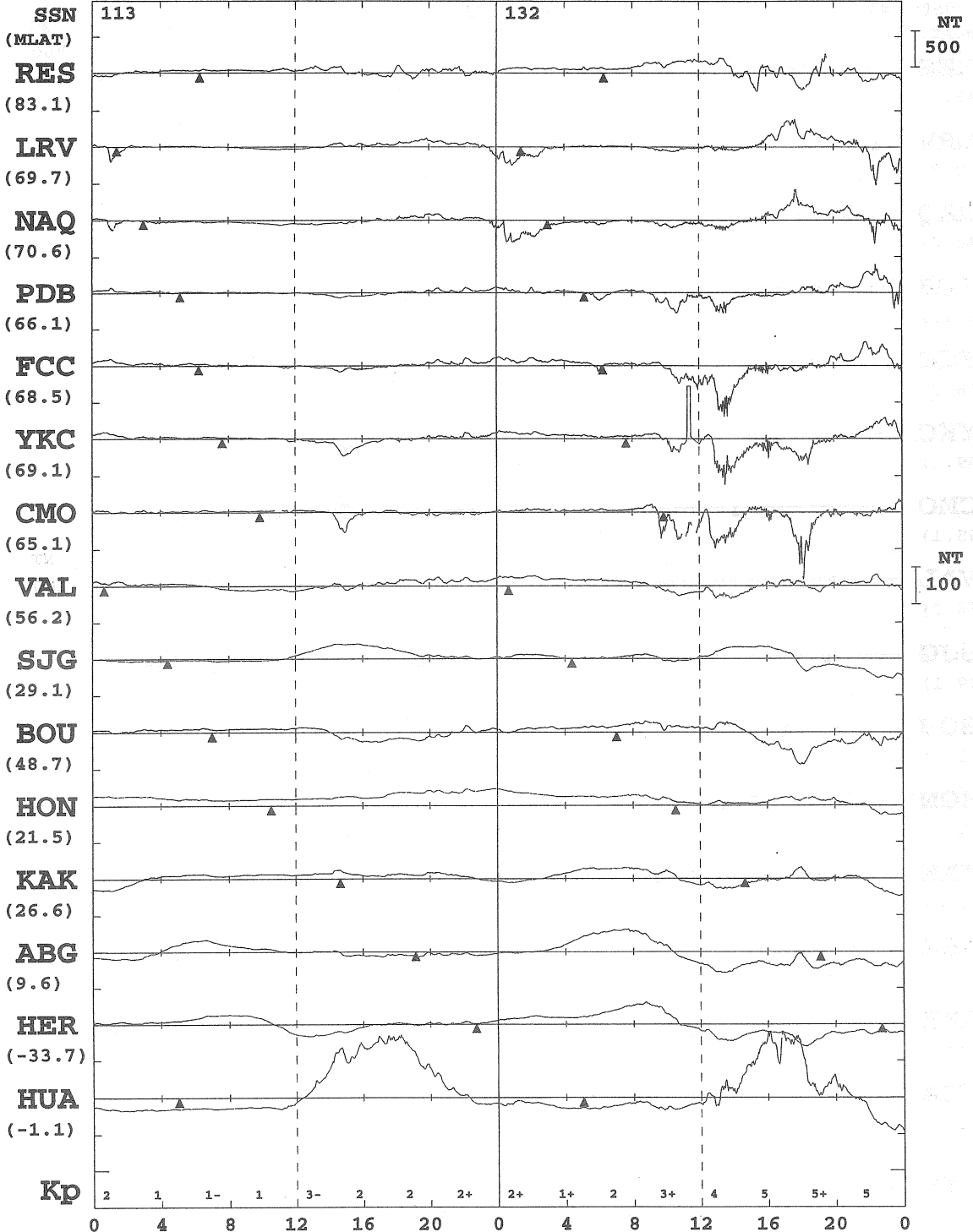
# 2000 H OR X-COMPONENT



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

KYOTO UNIV.

2000 H OR X-COMPONENT  $\Delta$  : LOCAL MIDNIGHT

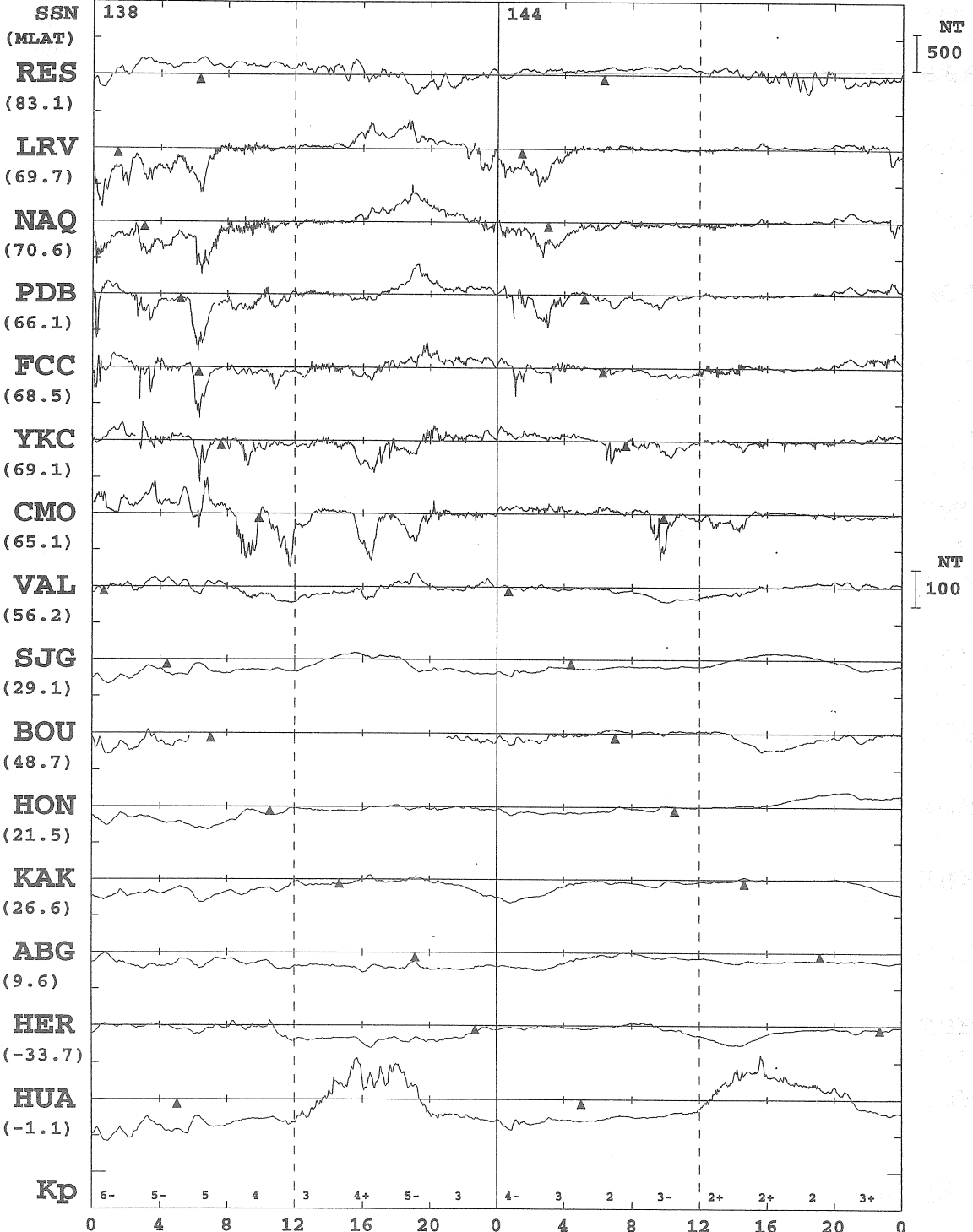


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

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# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



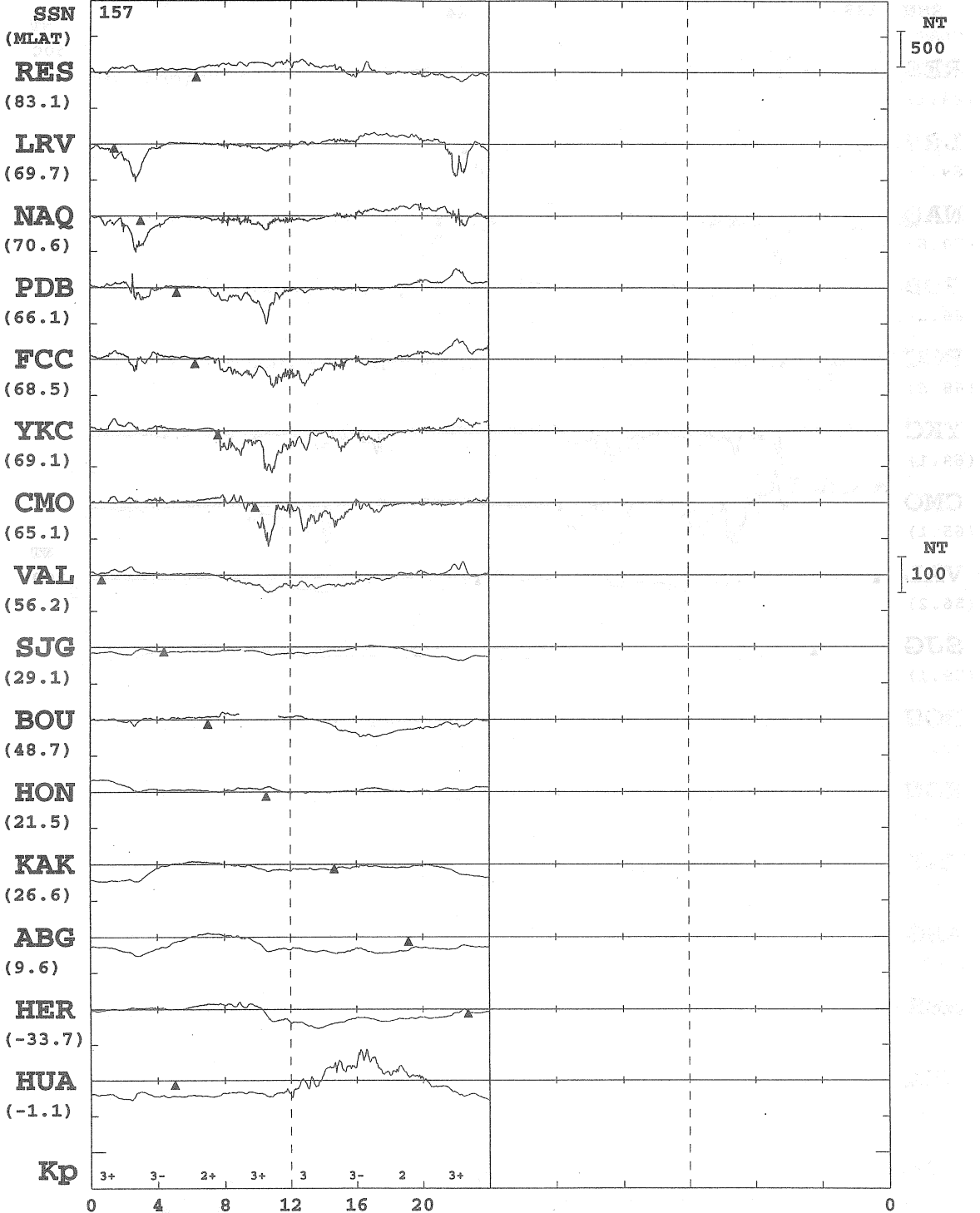
**AUG 29**  
(DAY 242)

**AUG 30**  
(DAY 243)

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

KYOTO UNIV.

2000 H OR X-COMPONENT Δ : LOCAL MIDNIGHT

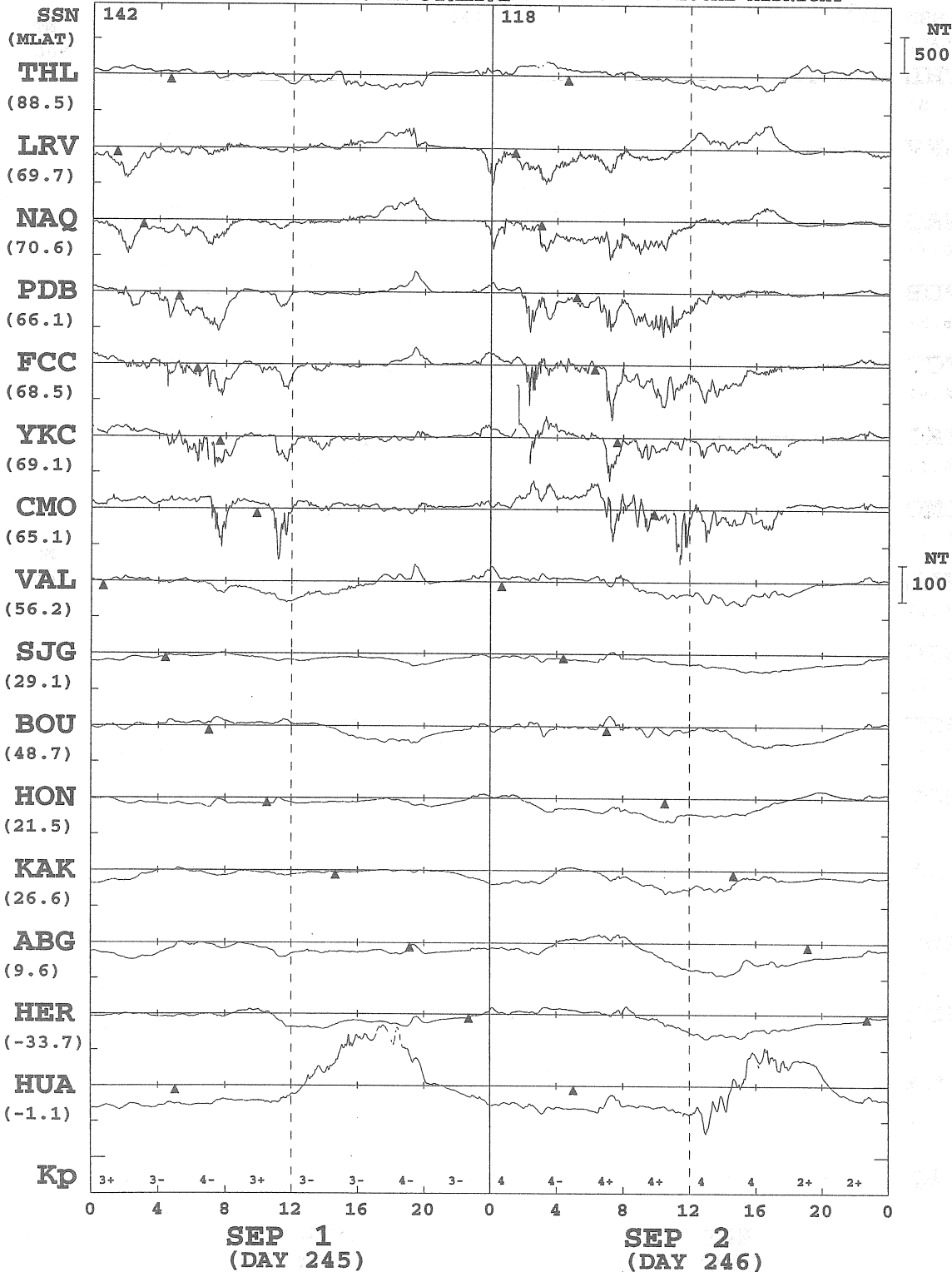


AUG 31  
 (DAY 244)

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

KYOTO UNIV.

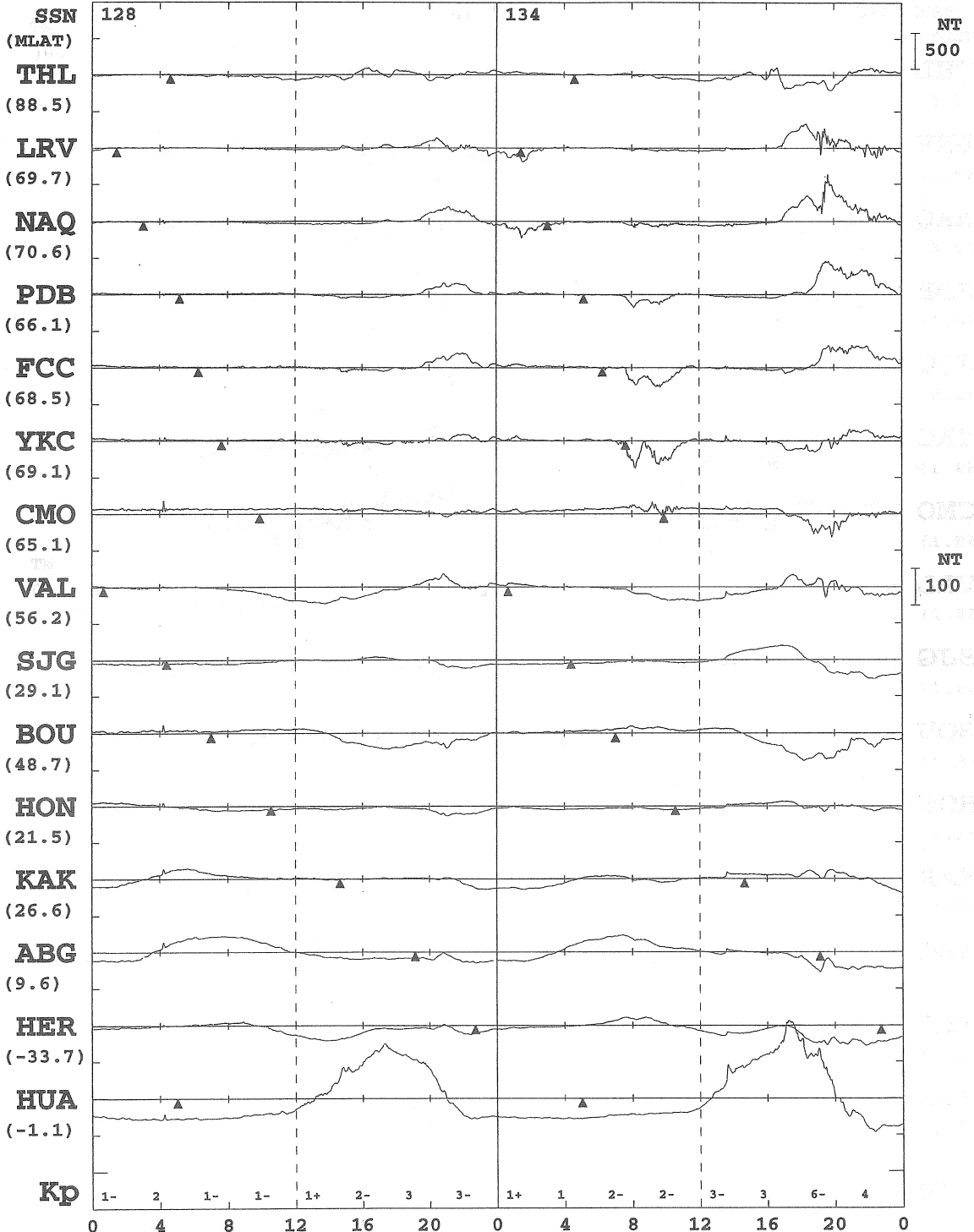
2000 H OR X-COMPONENT Δ : LOCAL MIDNIGHT



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

KYOTO UNIV.

2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



SEP 3  
(DAY 247)

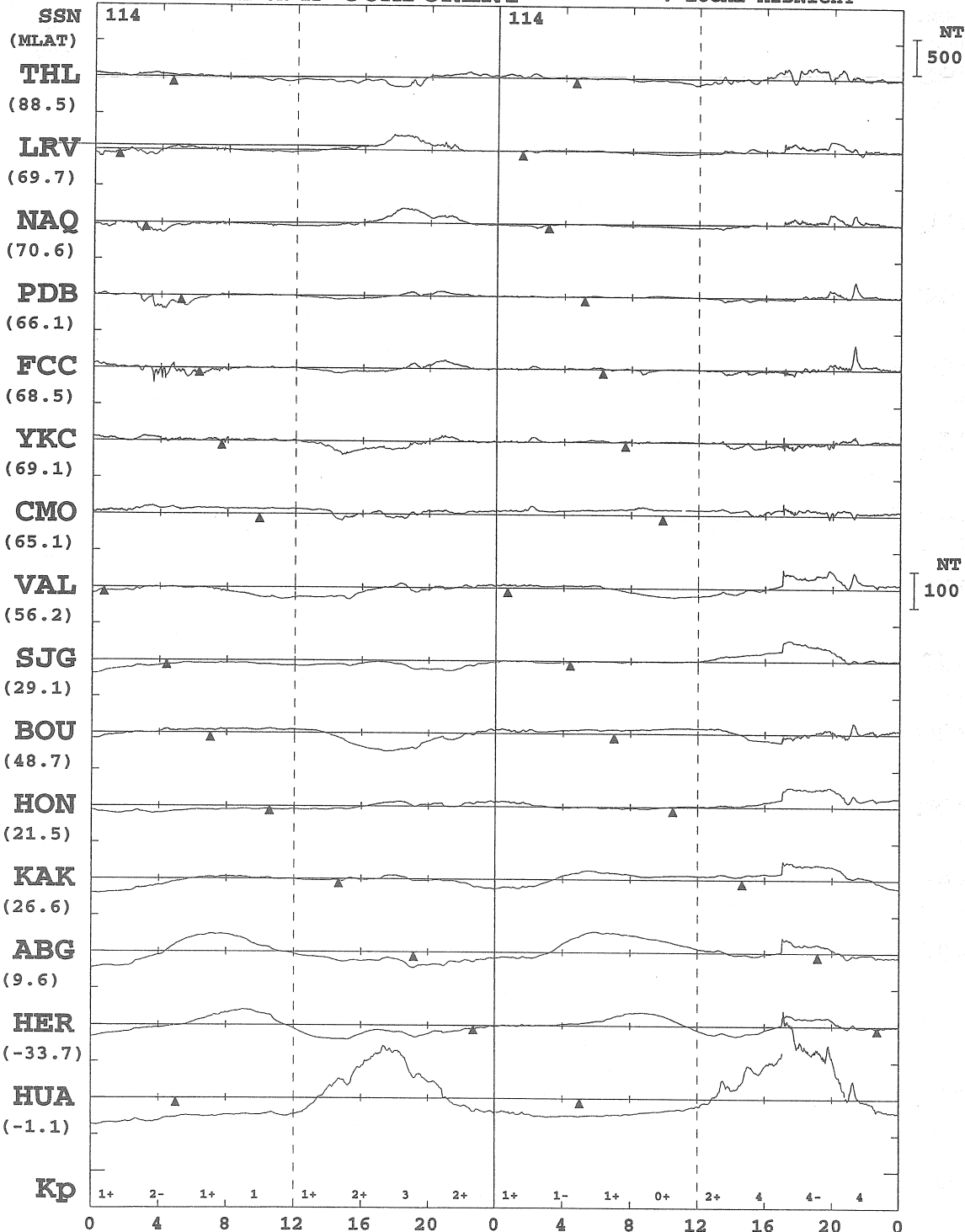
SEP 4  
(DAY 248)

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

KYOTO UNIV.



2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



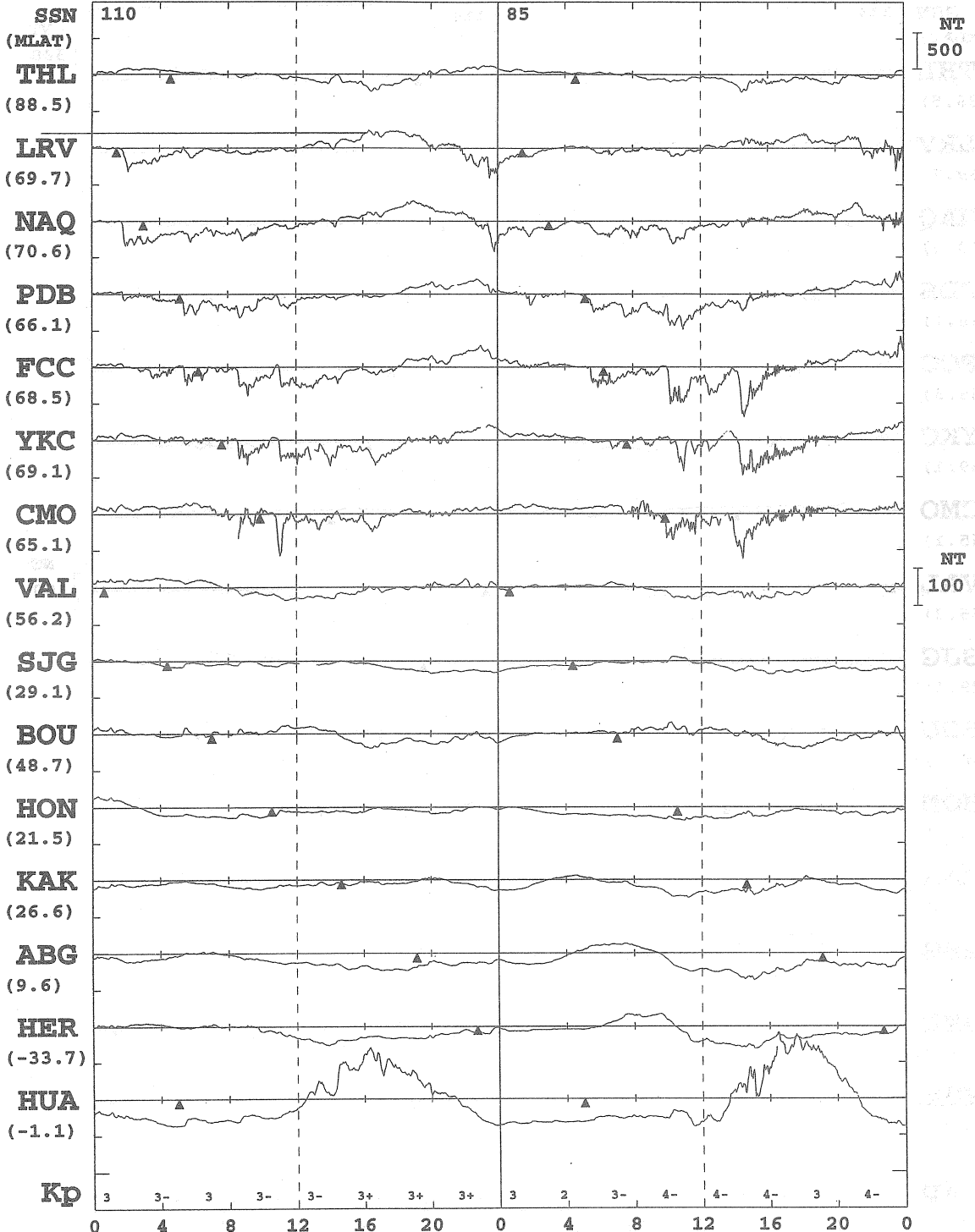
SEP 5  
(DAY 249)

SEP 6  
(DAY 250)

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

KYOTO UNIV.

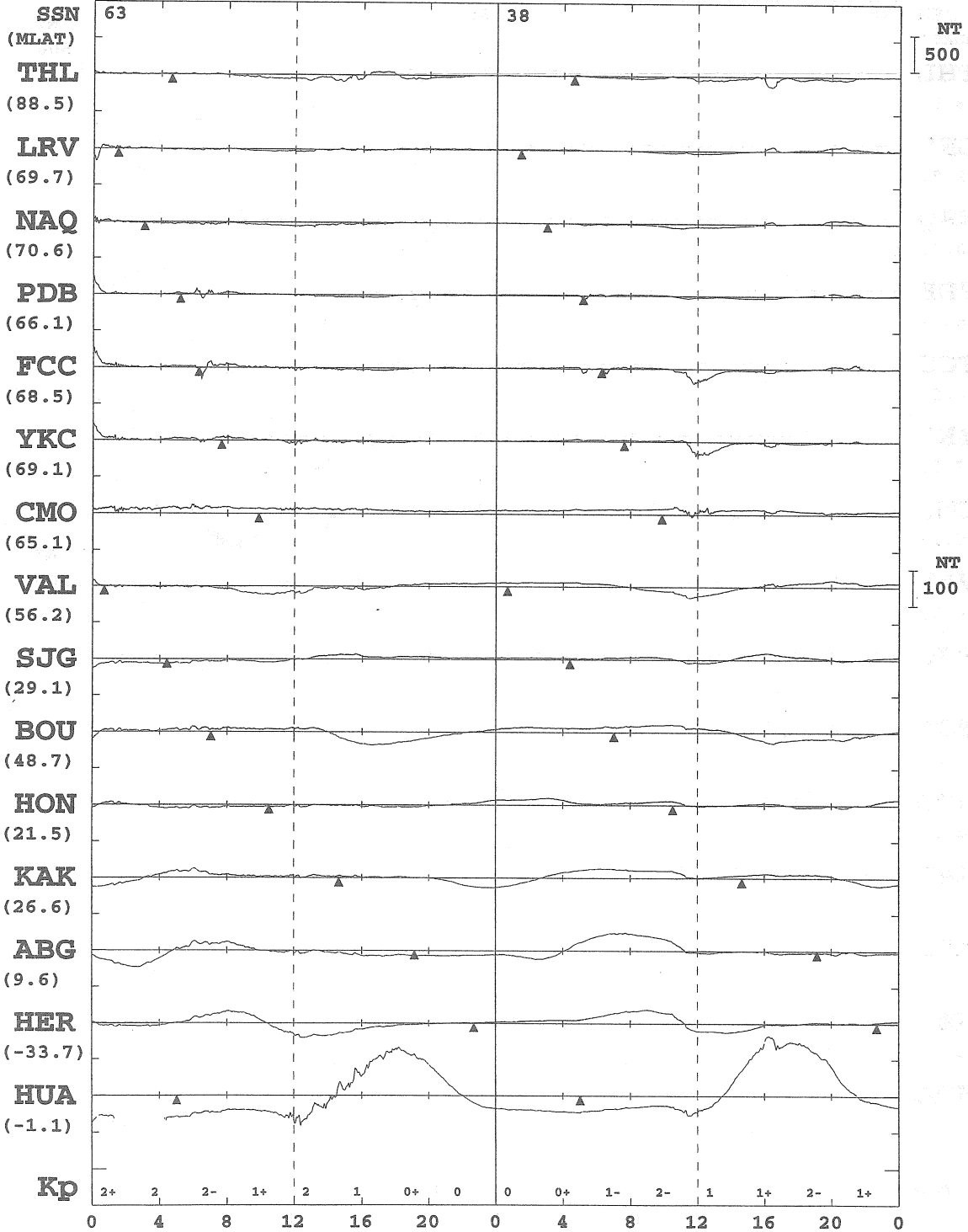
2000 H OR X-COMPONENT  $\Delta$  : LOCAL MIDNIGHT



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

KYOTO UNIV.

2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



SEP 9  
(DAY 253)

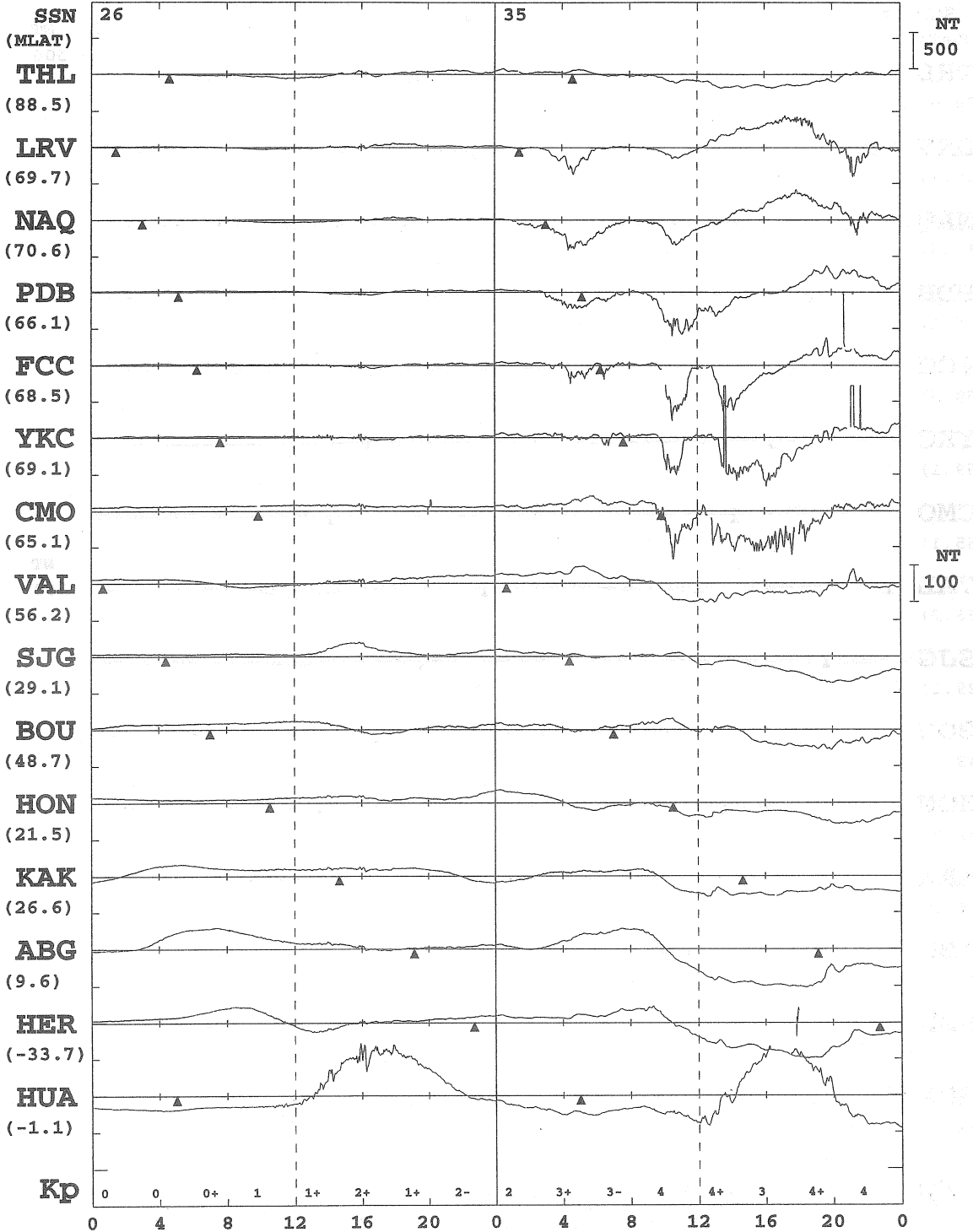
SEP 10  
(DAY 254)

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

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

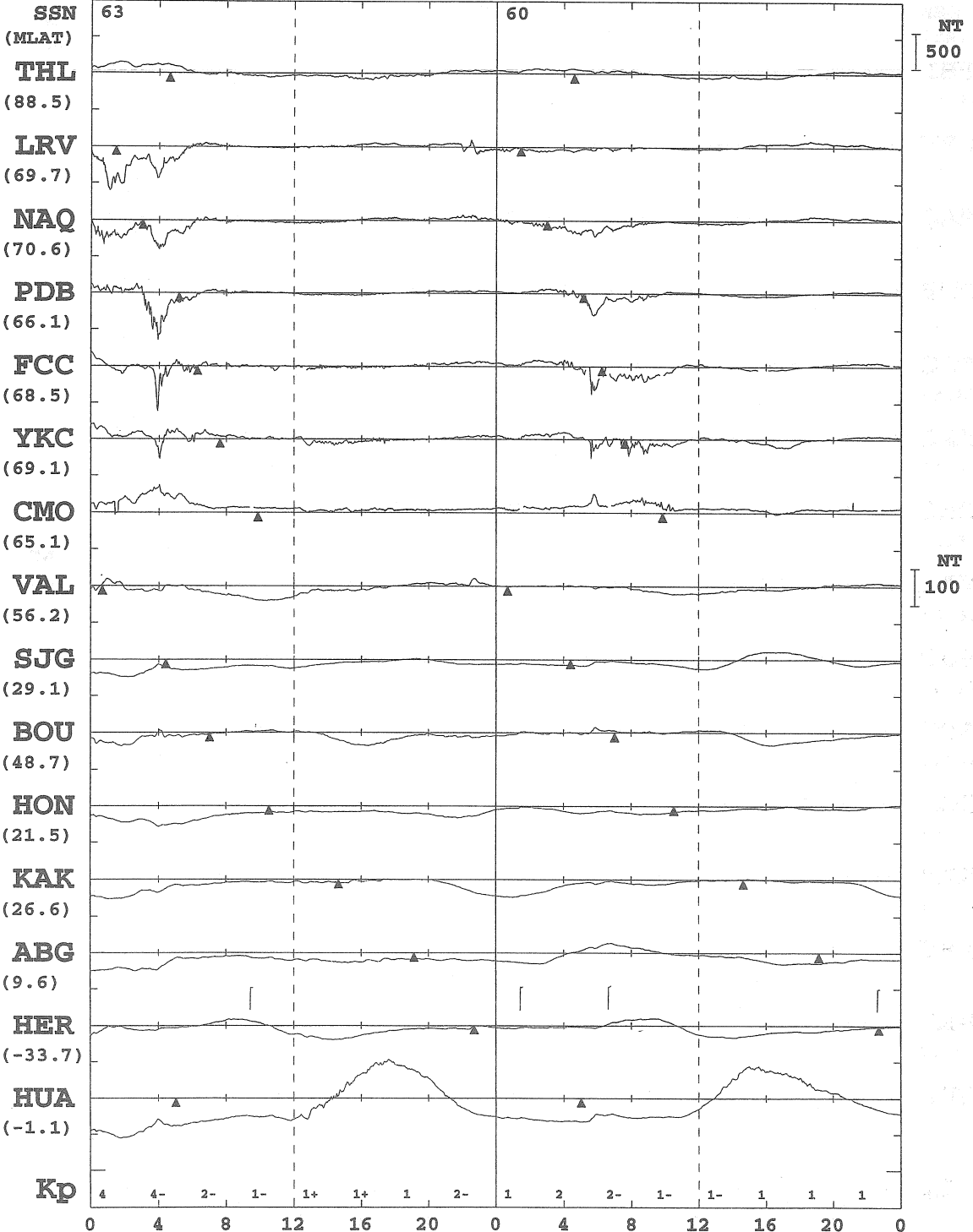


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



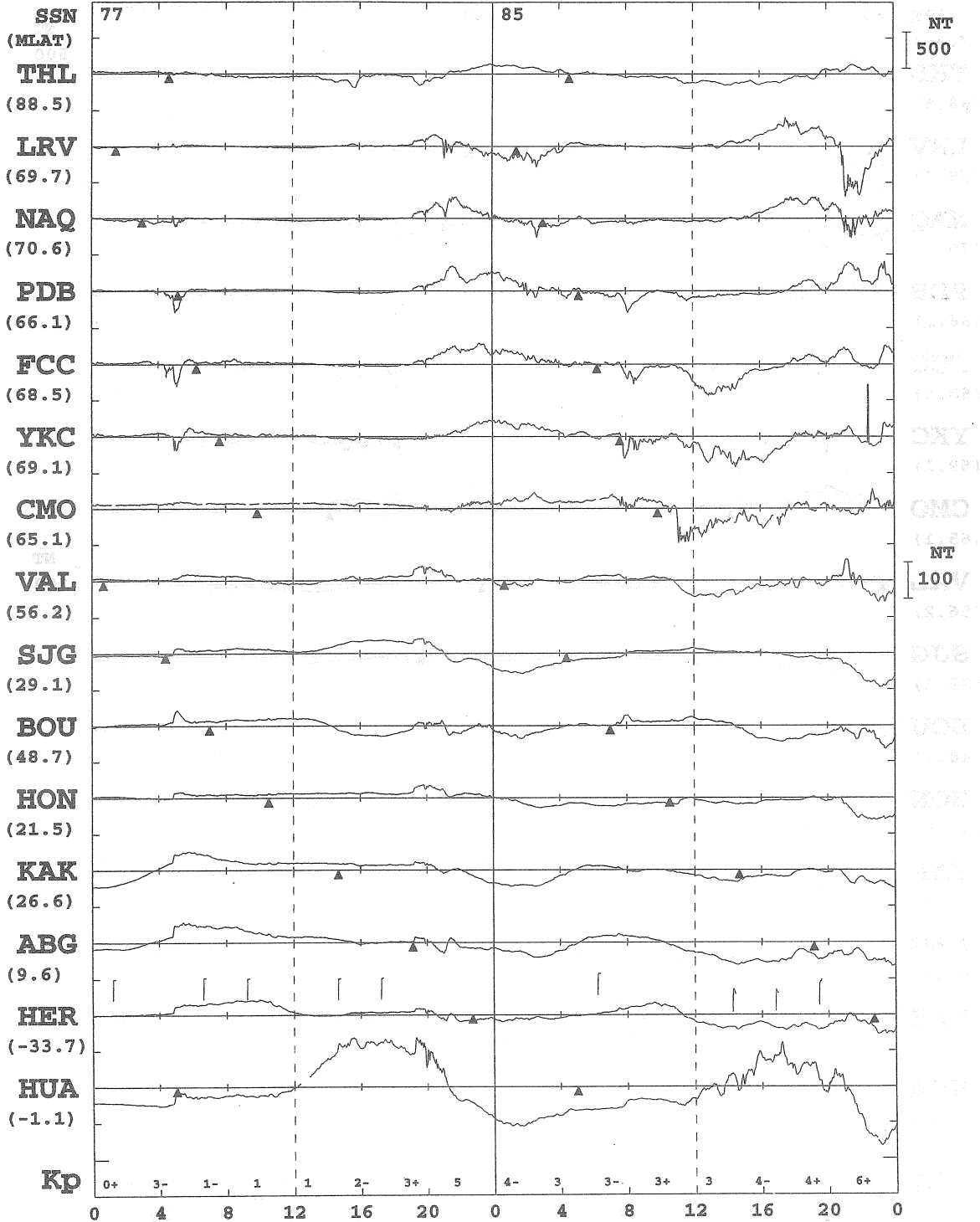
SEP 13  
(DAY 257)

SEP 14  
(DAY 258)

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

KYOTO UNIV.

2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

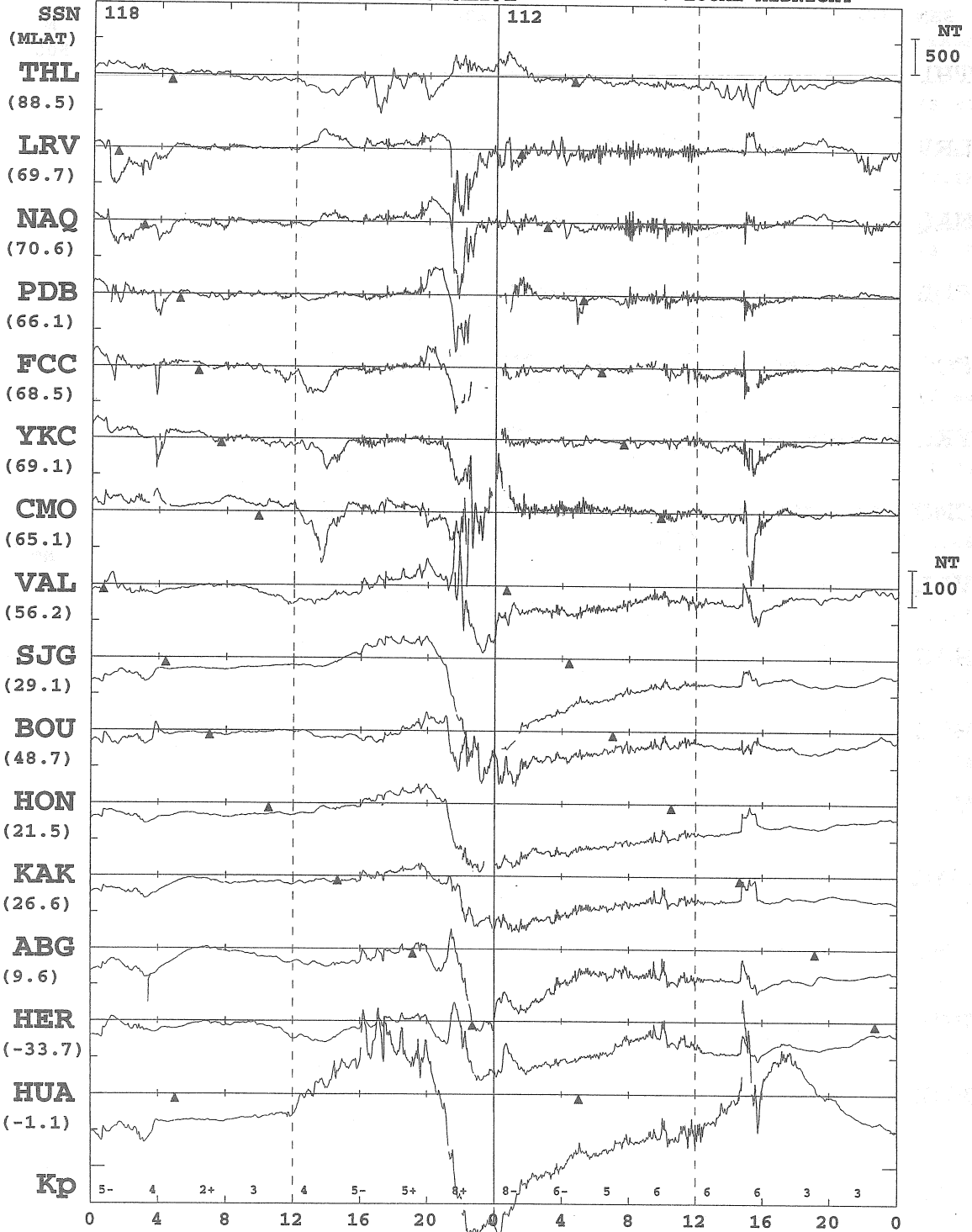


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



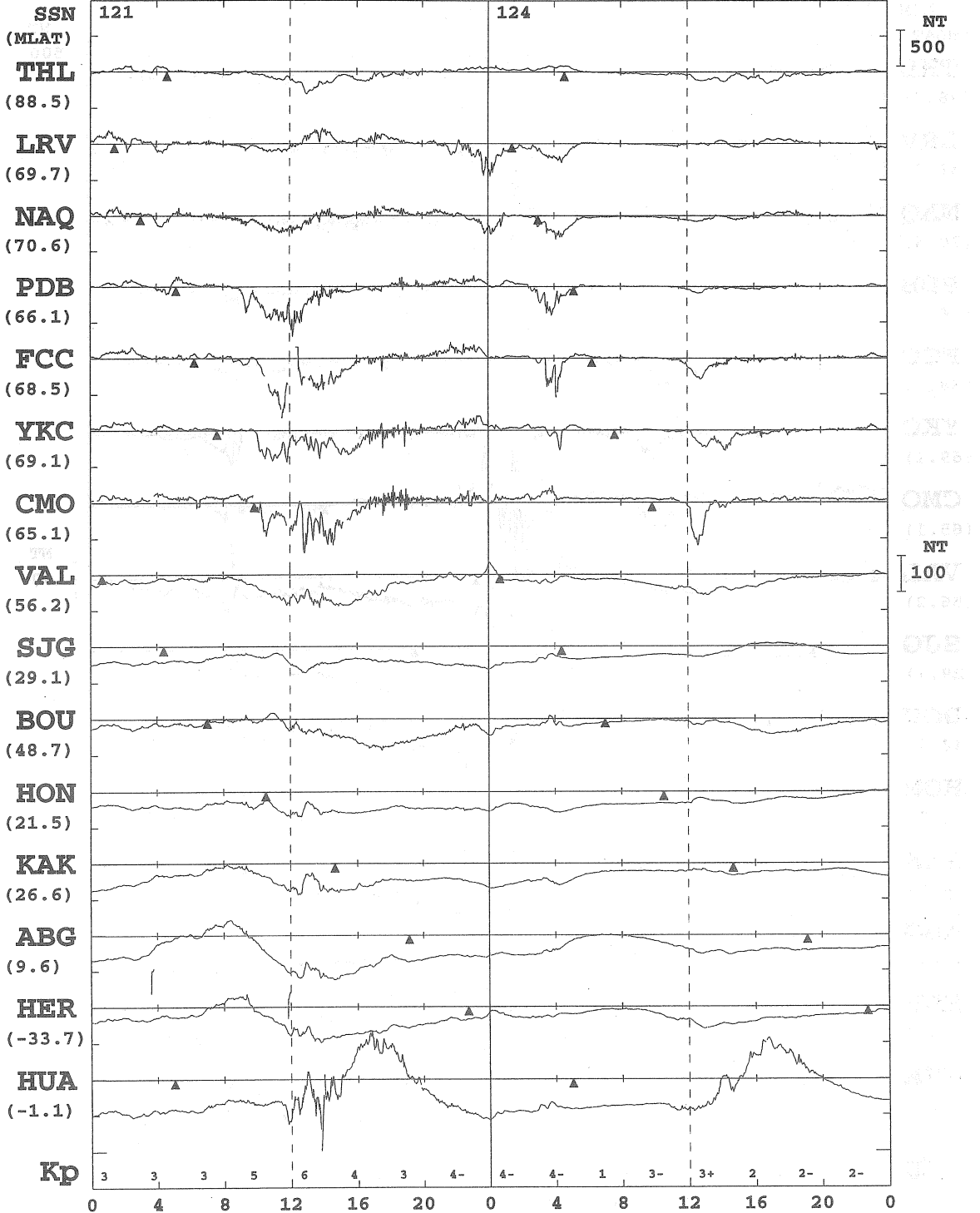
SEP 17  
(DAY 261)

SEP 18  
(DAY 262)

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

KYOTO UNIV.

2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



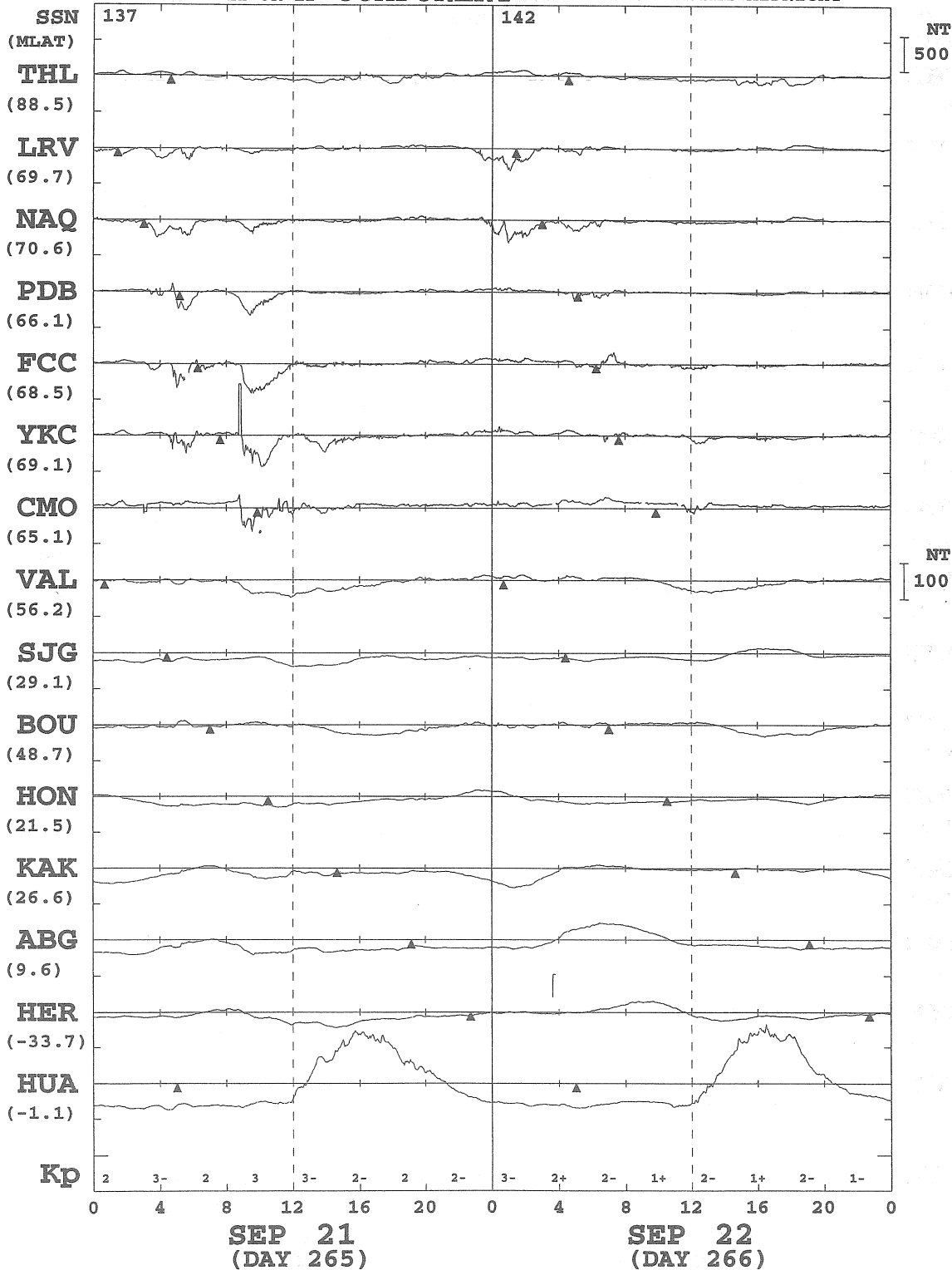
\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.



# 2000 H OR X-COMPONENT

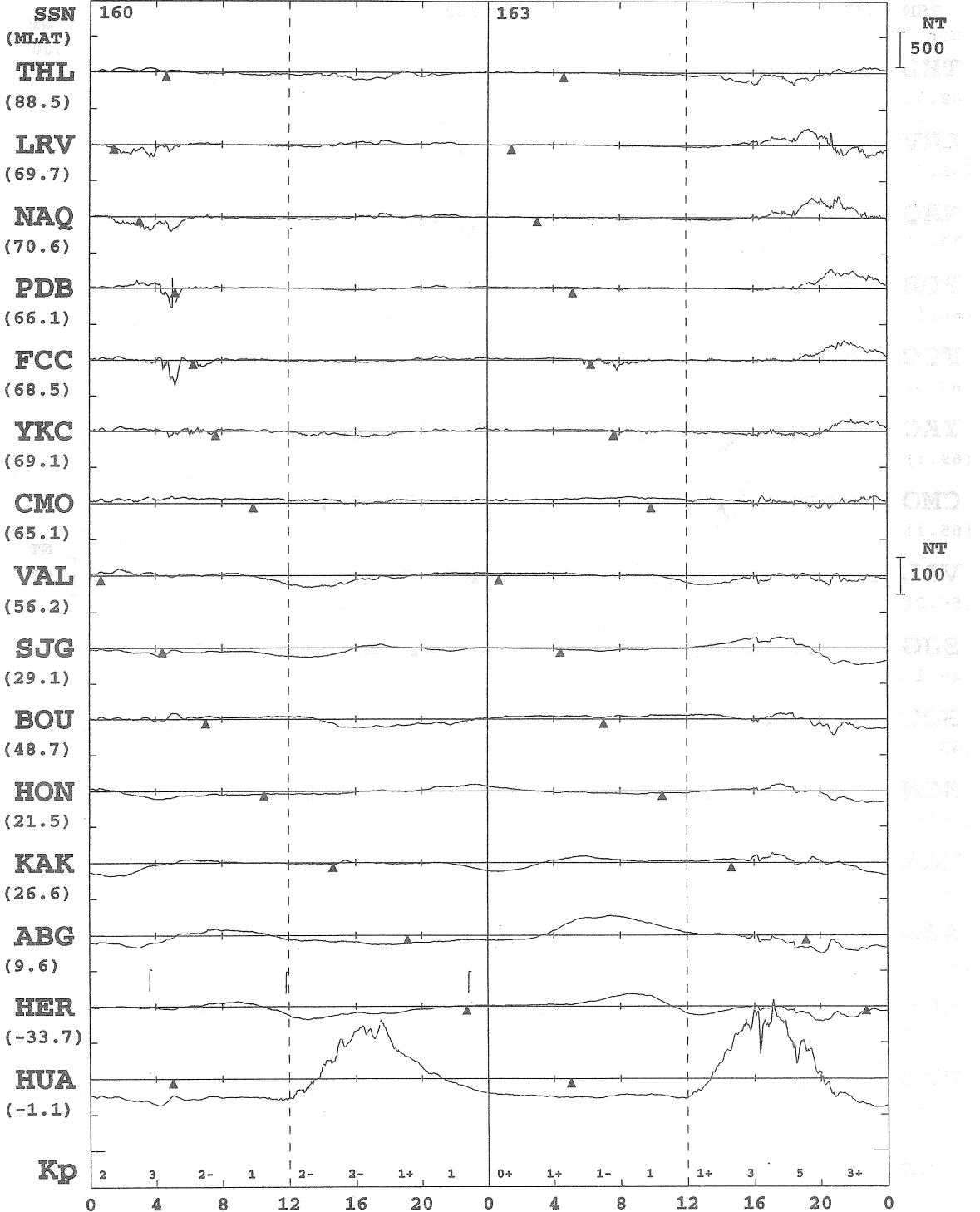
▲ : LOCAL MIDNIGHT



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

KYOTO UNIV.

2000 H OR X-COMPONENT  $\Delta$  : LOCAL MIDNIGHT

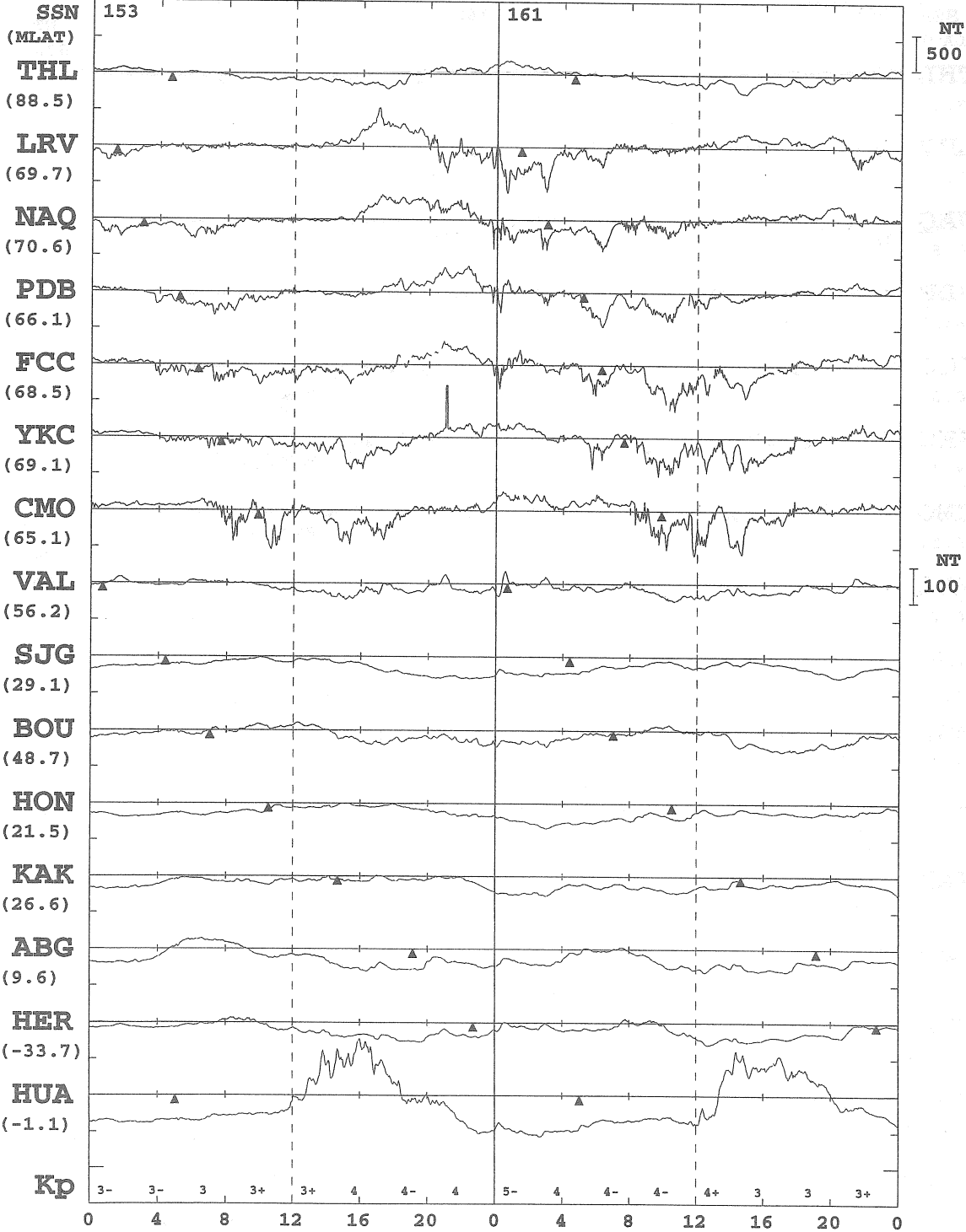


SEP 23 (DAY 267) SEP 24 (DAY 268)

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

KYOTO UNIV.

2000 H OR X-COMPONENT  $\blacktriangle$  : LOCAL MIDNIGHT



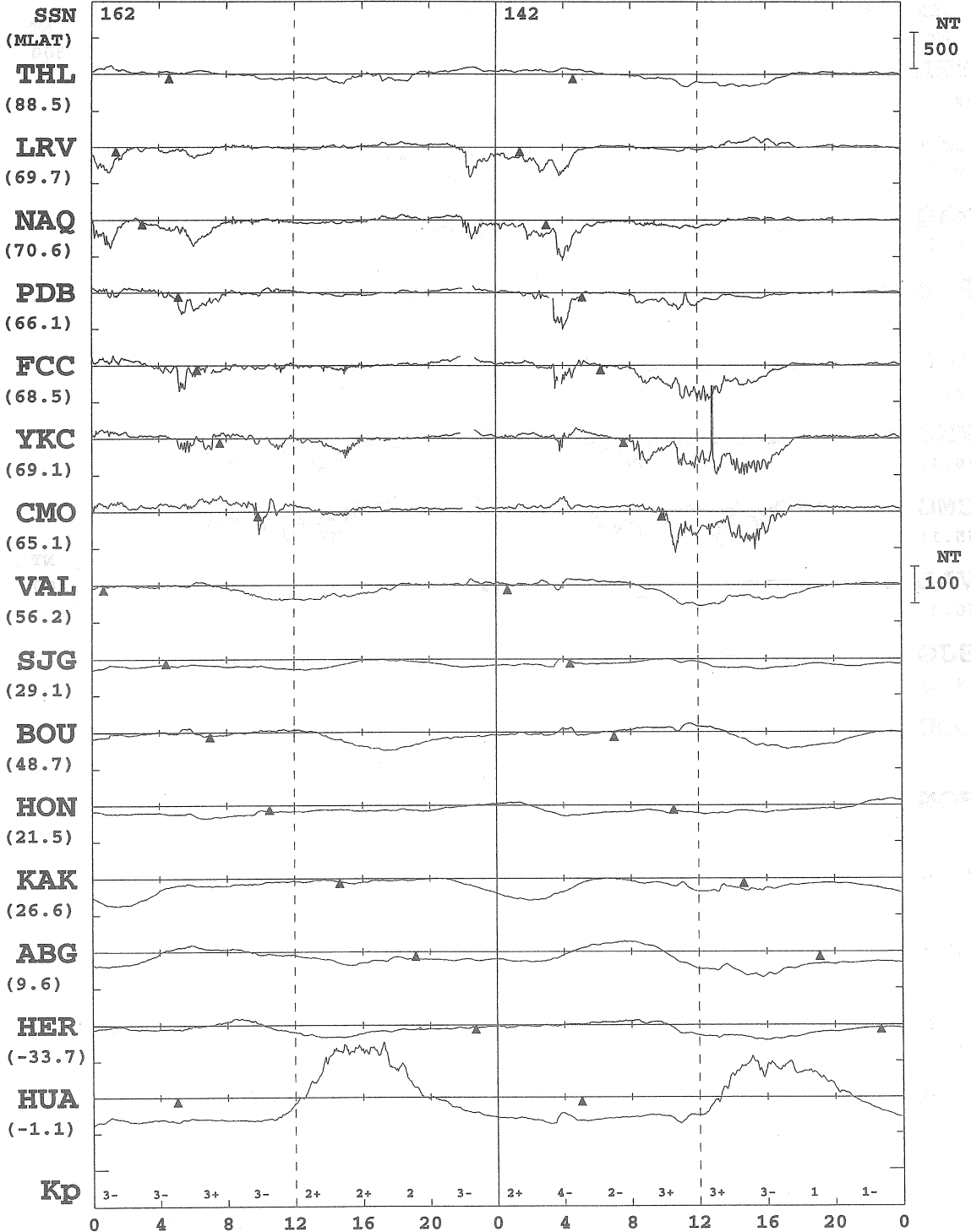
SEP 25  
(DAY 269)

SEP 26  
(DAY 270)

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

KYOTO UNIV.

2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

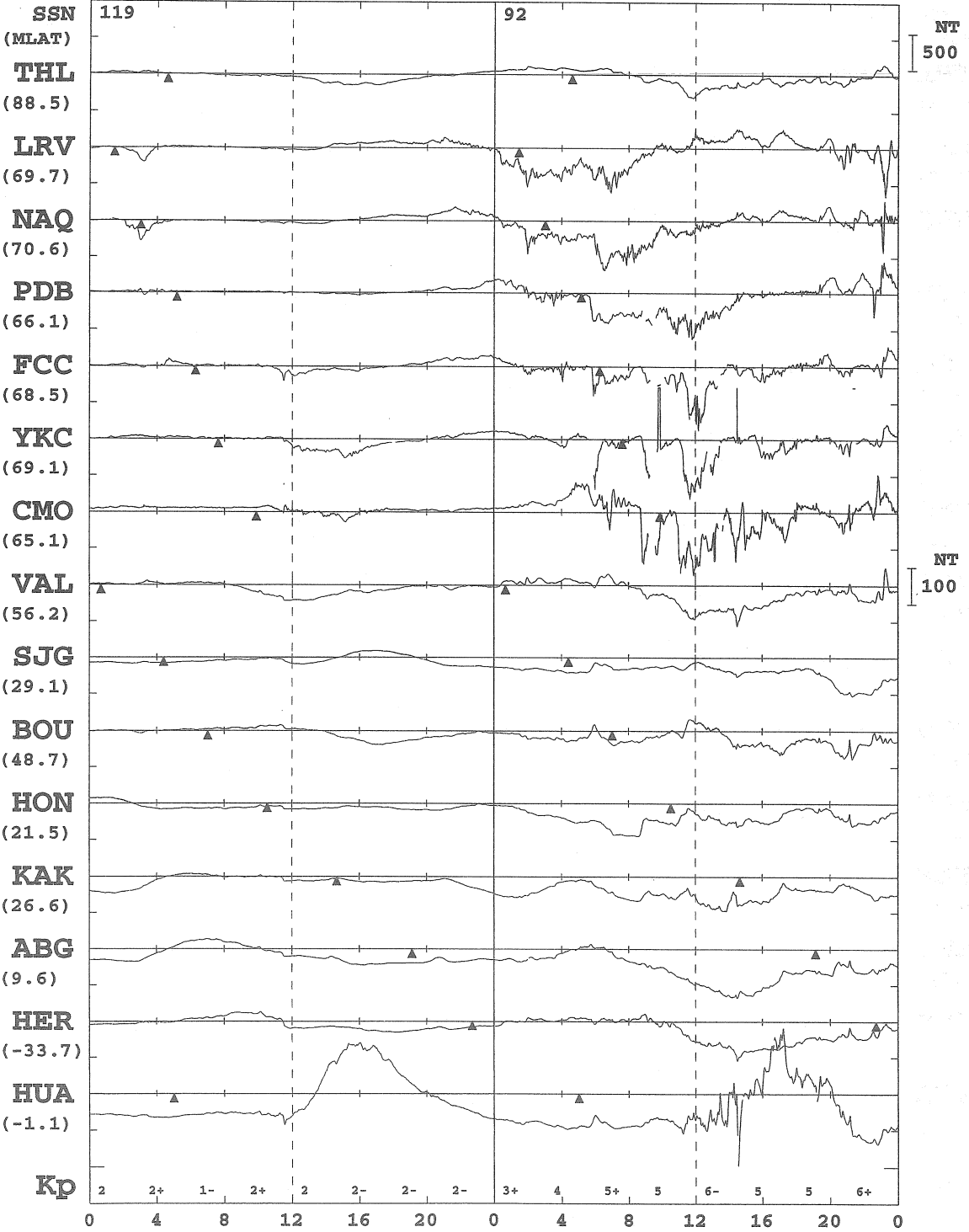


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

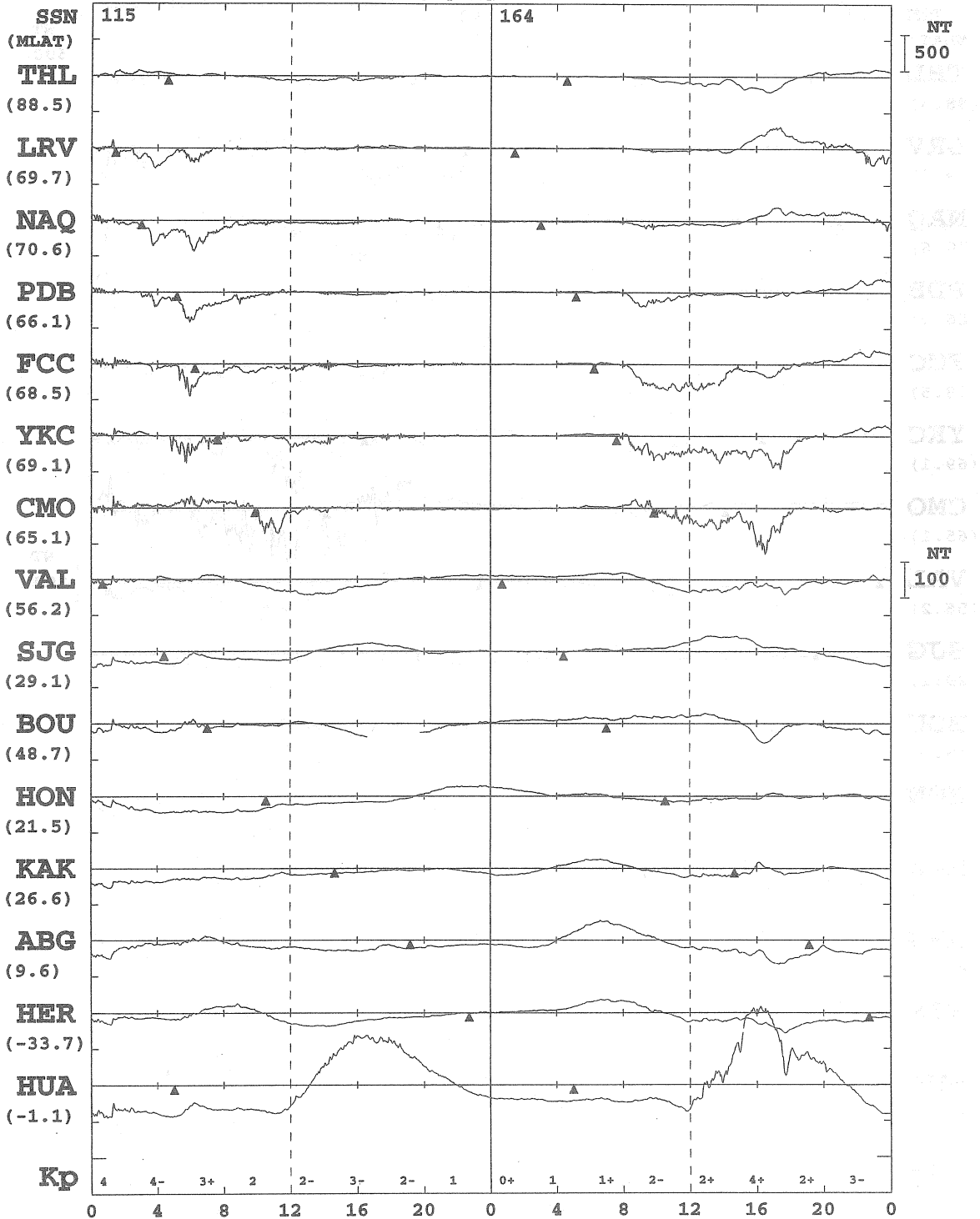
▲ : LOCAL MIDNIGHT



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

KYOTO UNIV.

2000 H OR X-COMPONENT  $\Delta$  : LOCAL MIDNIGHT

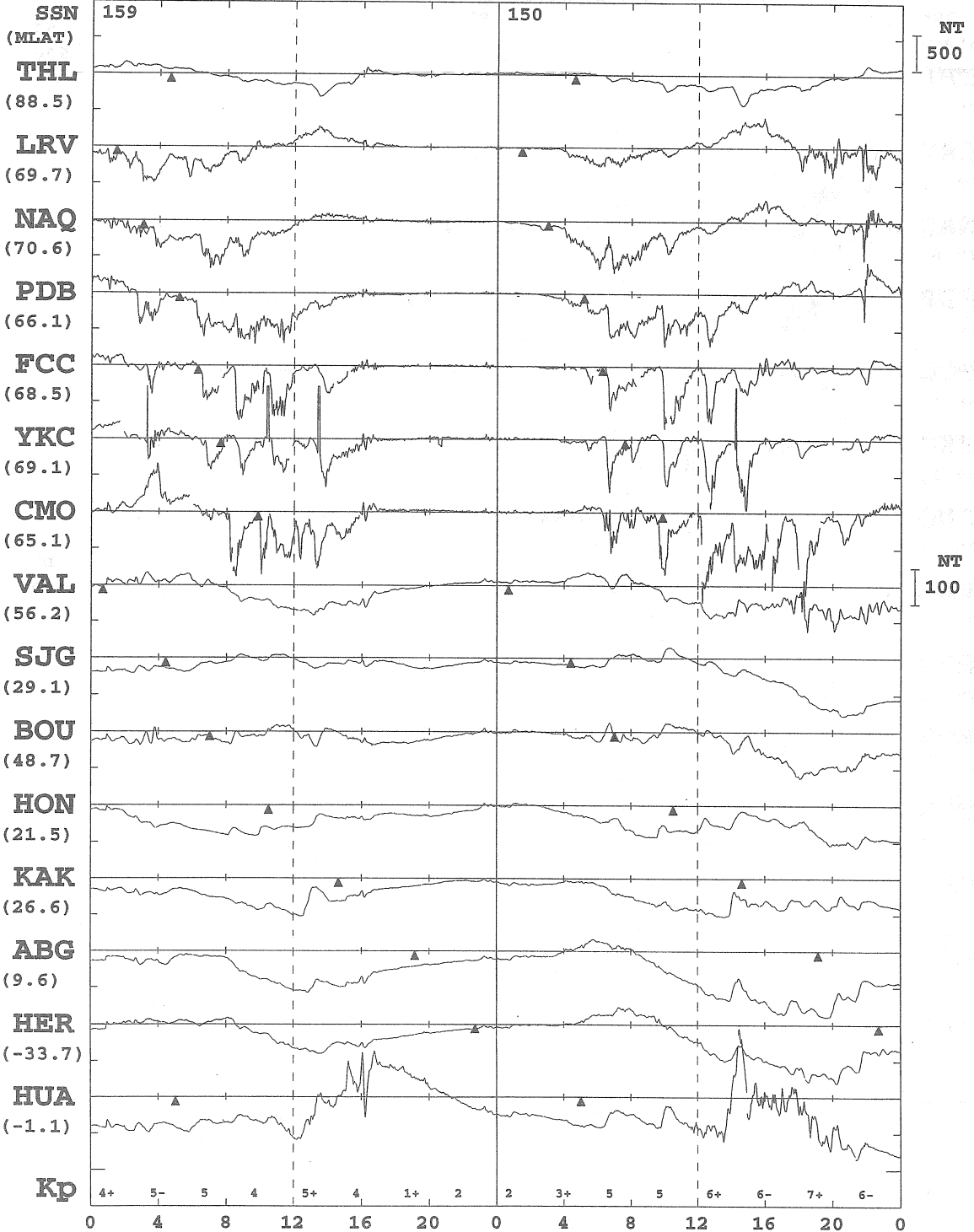


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

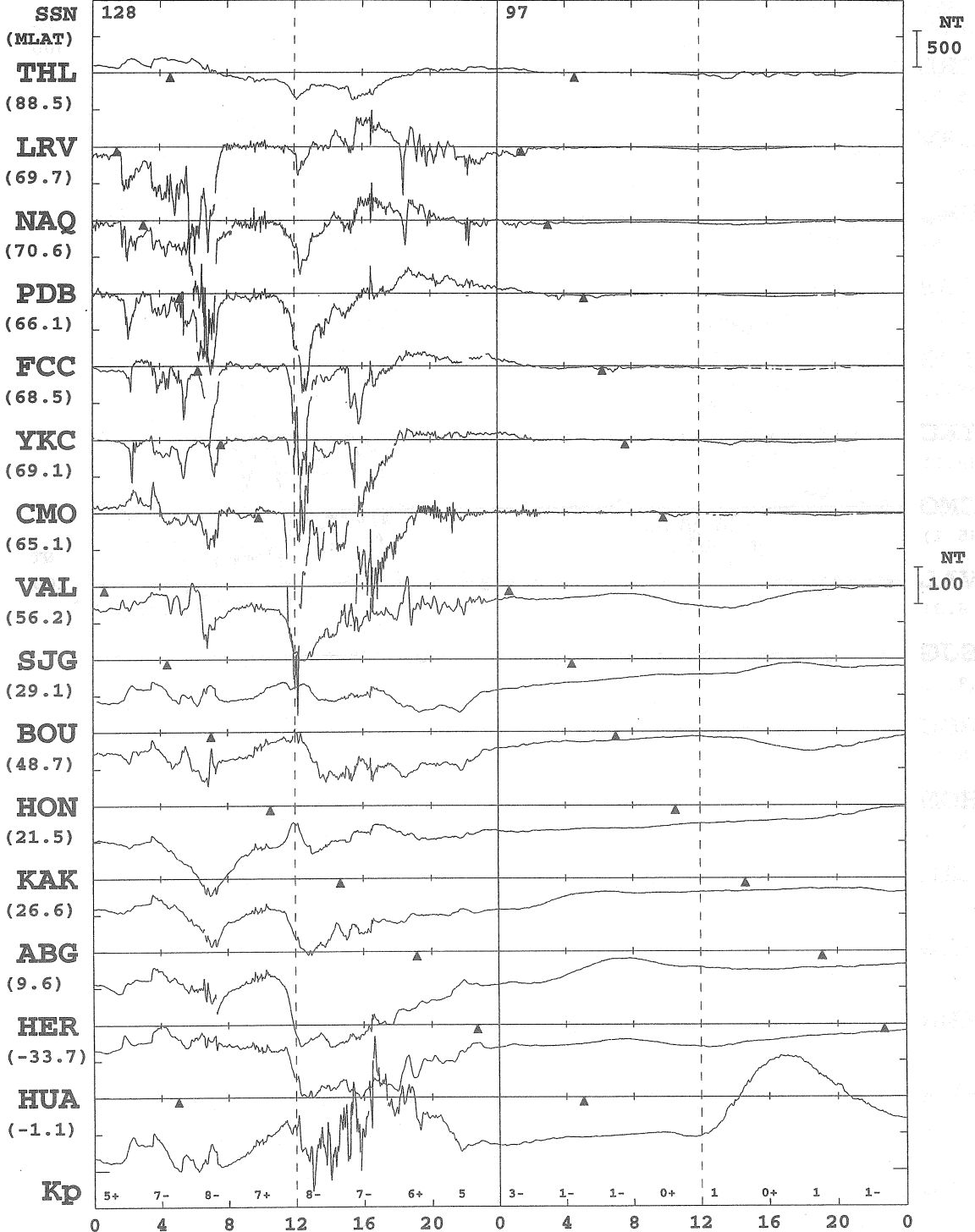


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



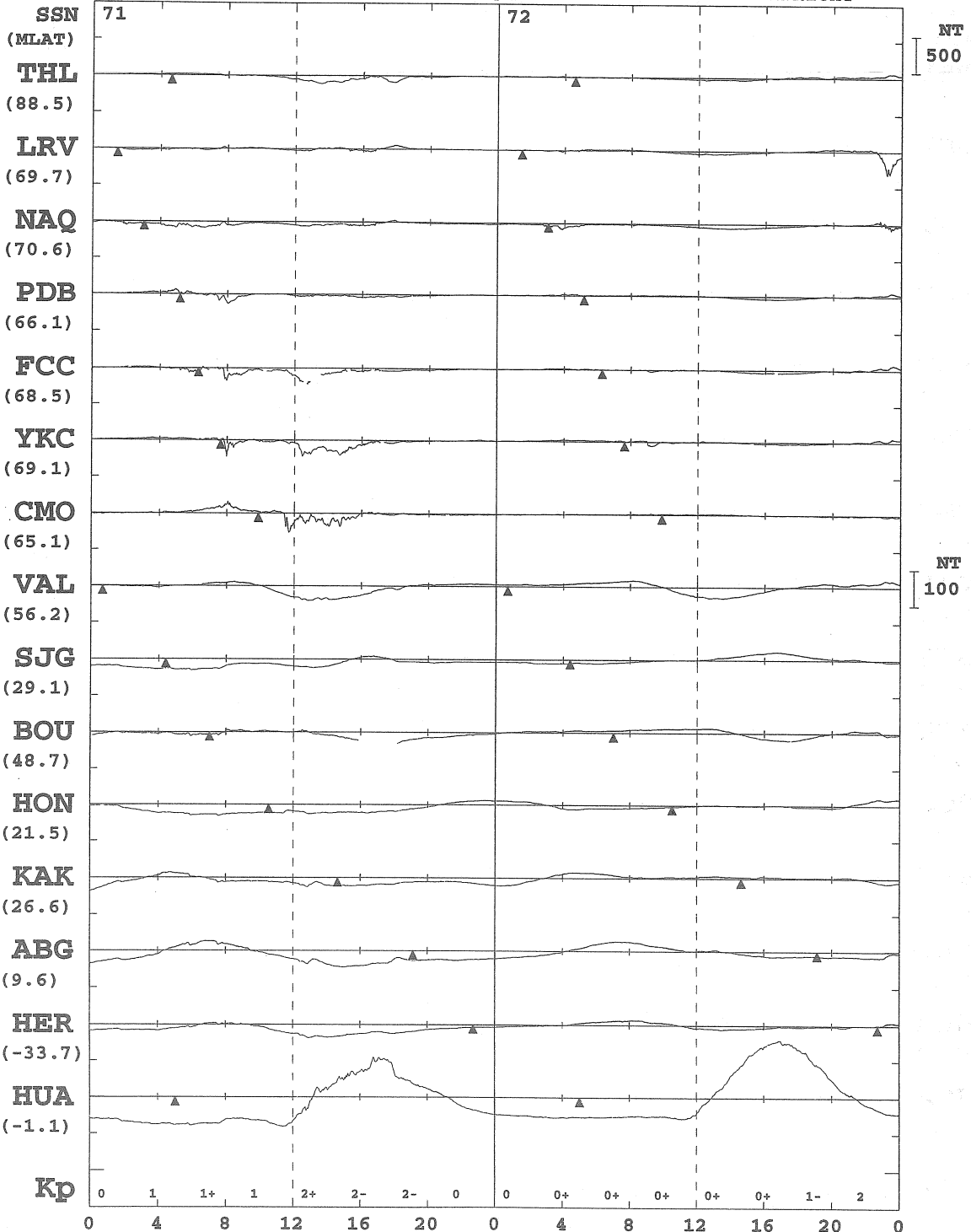
\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.



# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



OCT 7  
(DAY 281)

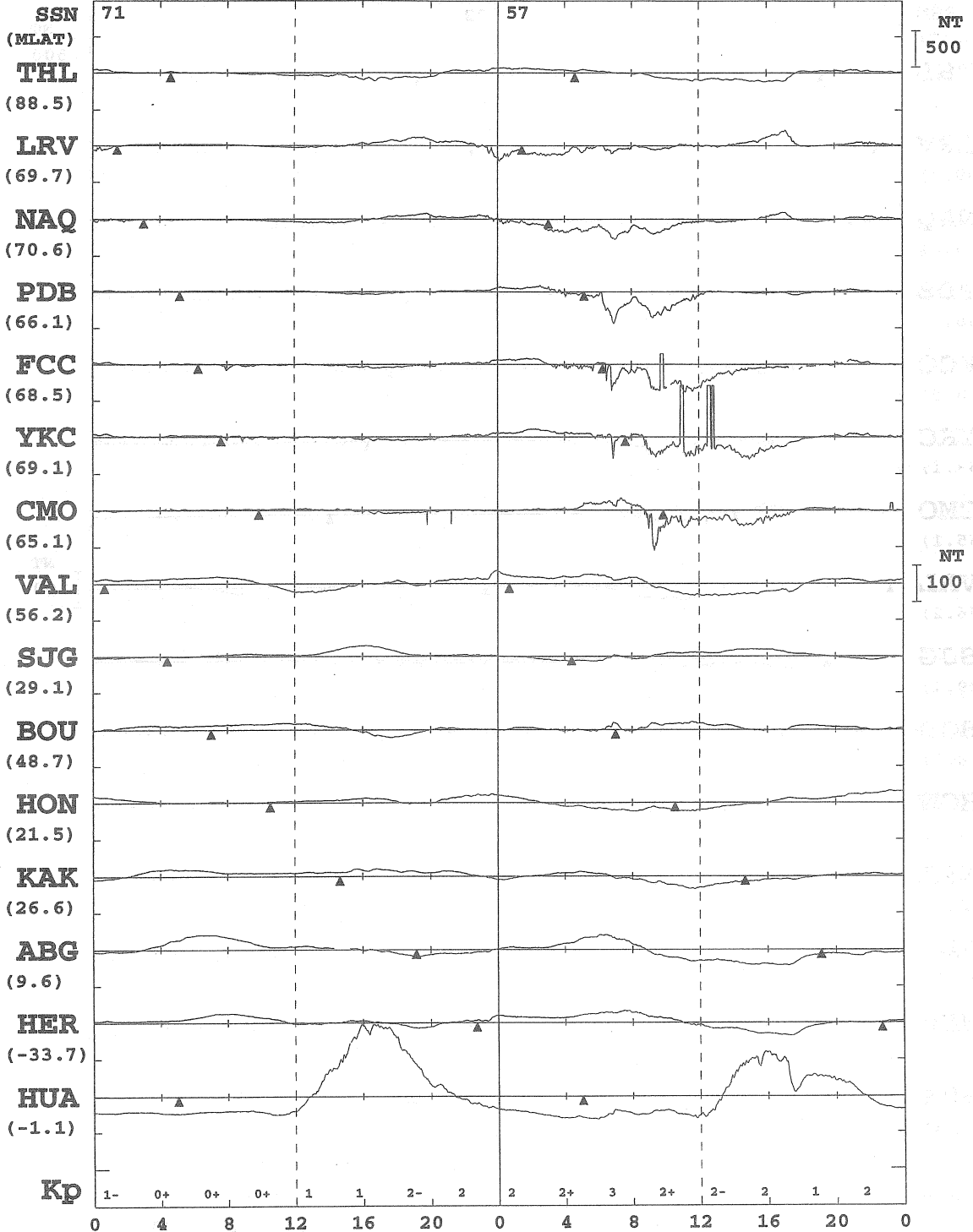
OCT 8  
(DAY 282)

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

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

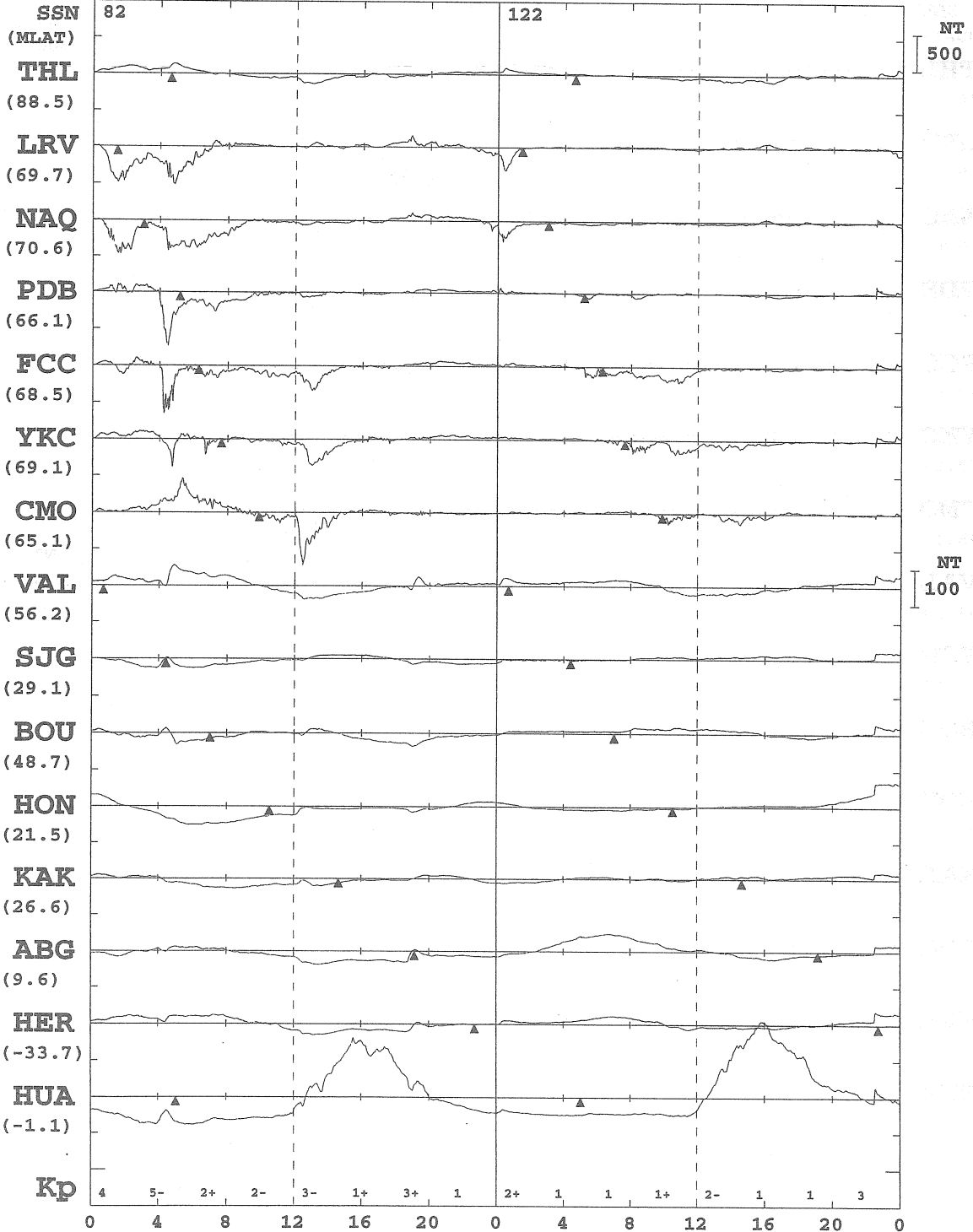


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

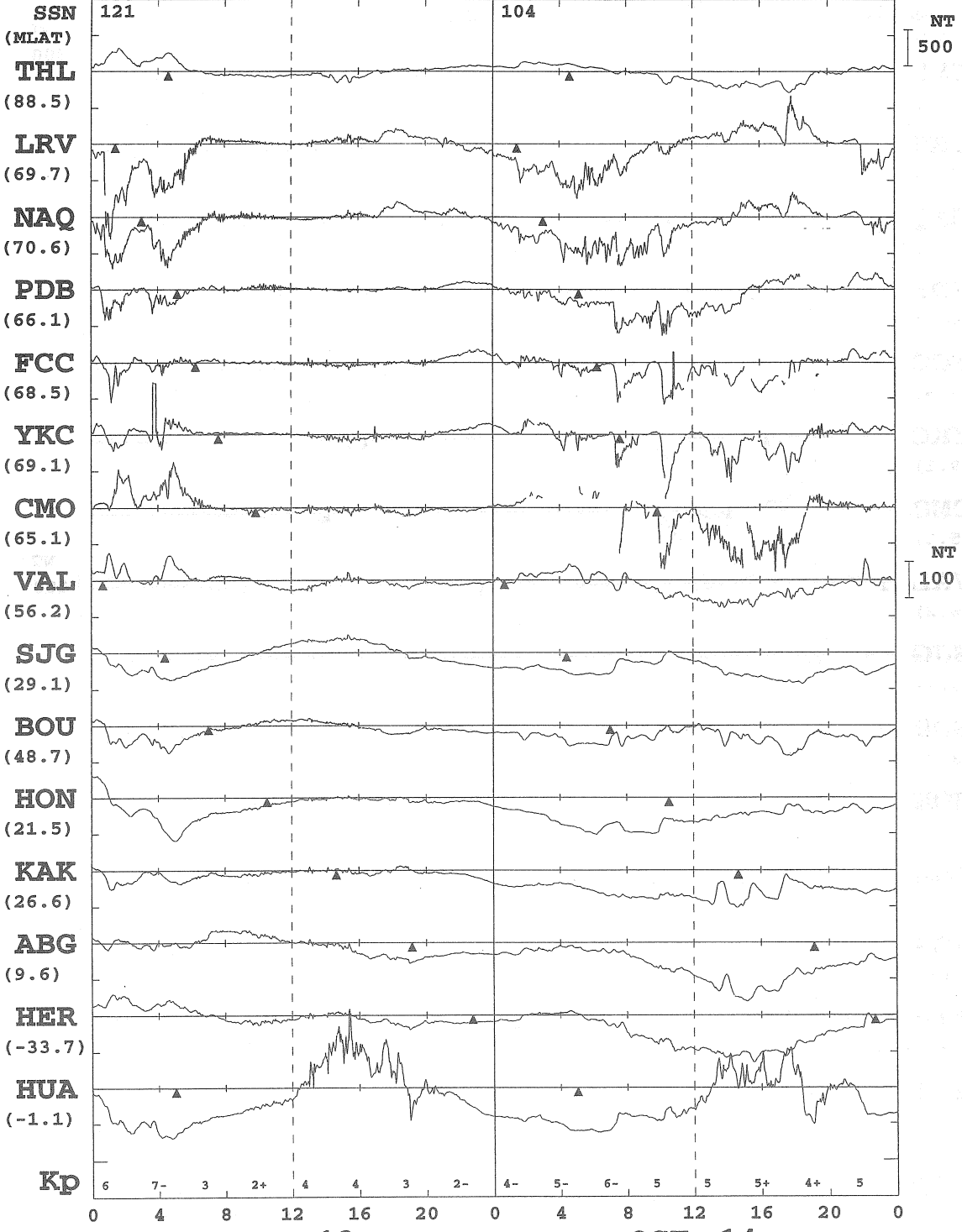


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



OCT 13  
(DAY 287)

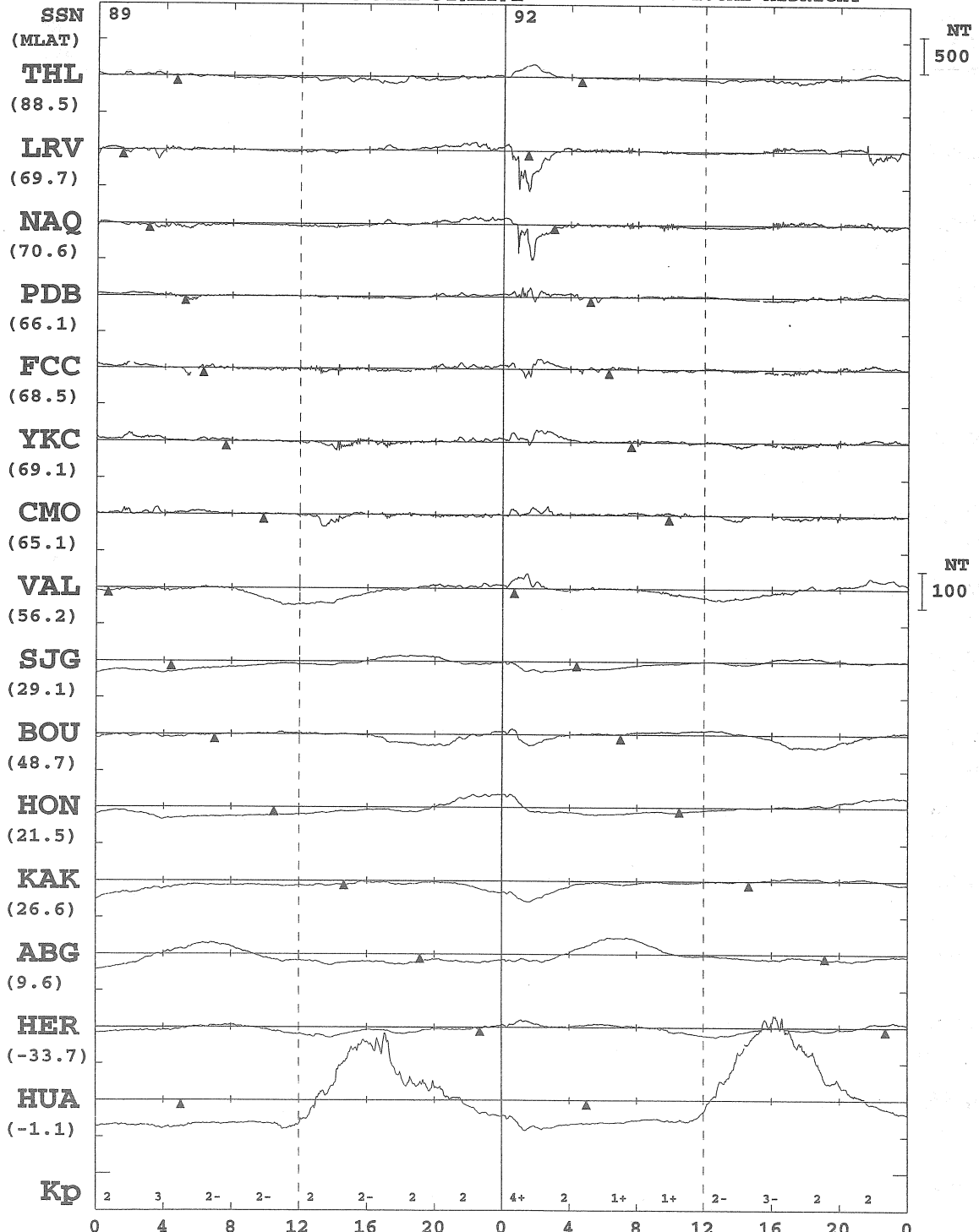
OCT 14  
(DAY 288)

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

KYOTO UNIV.

# 2000 H OR X-COMPONENT

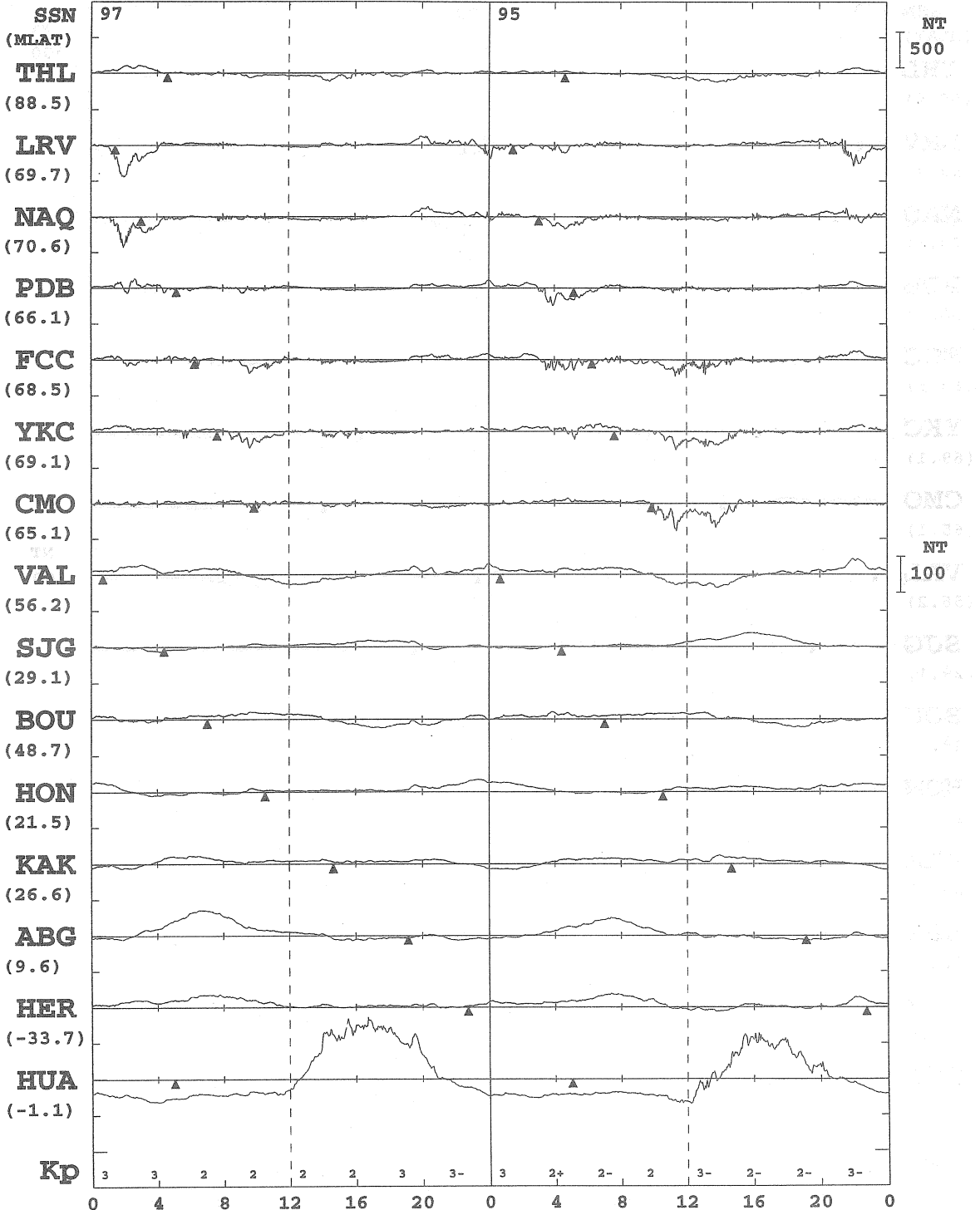
▲ : LOCAL MIDNIGHT



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

KYOTO UNIV.

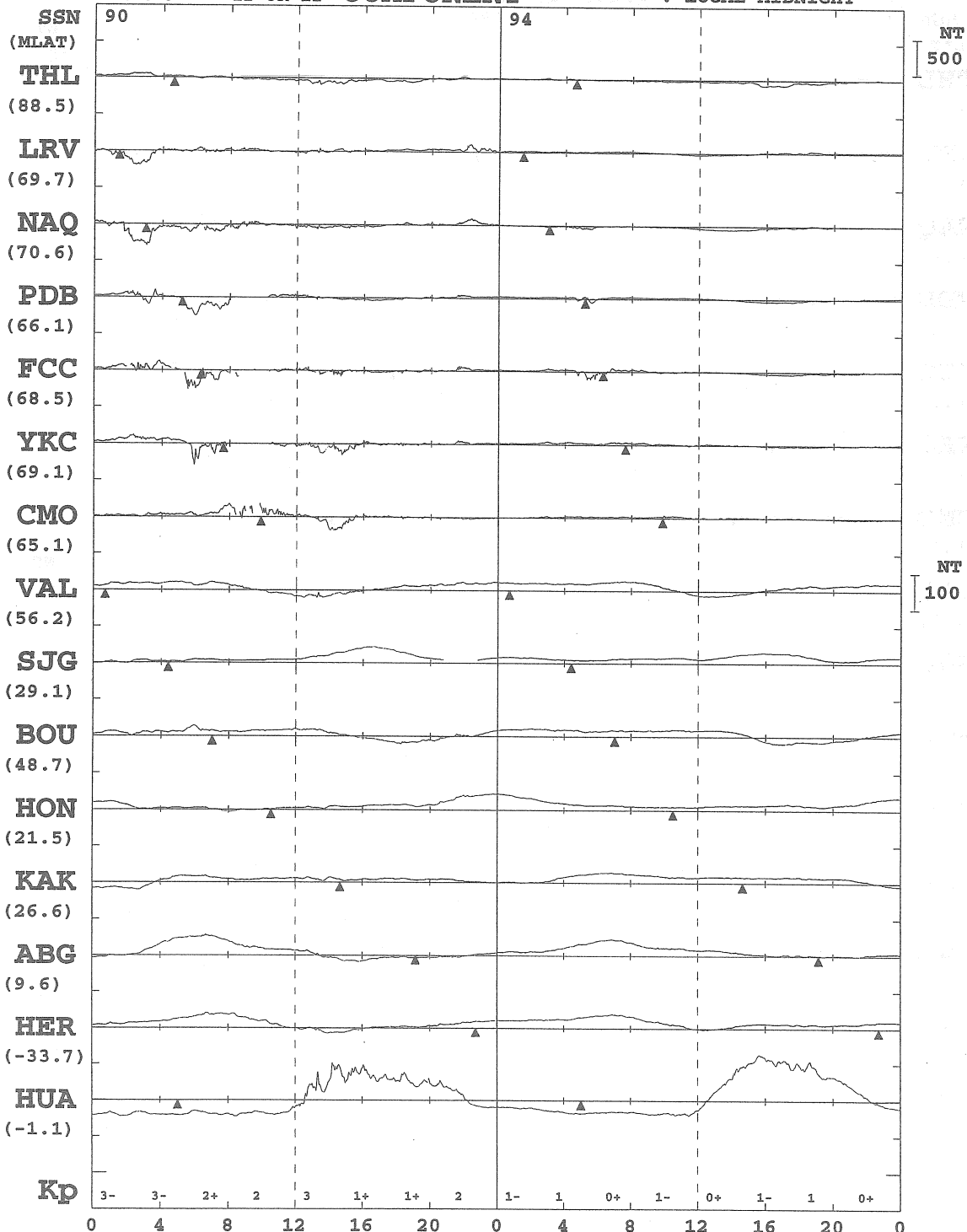
2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



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

KYOTO UNIV.

2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



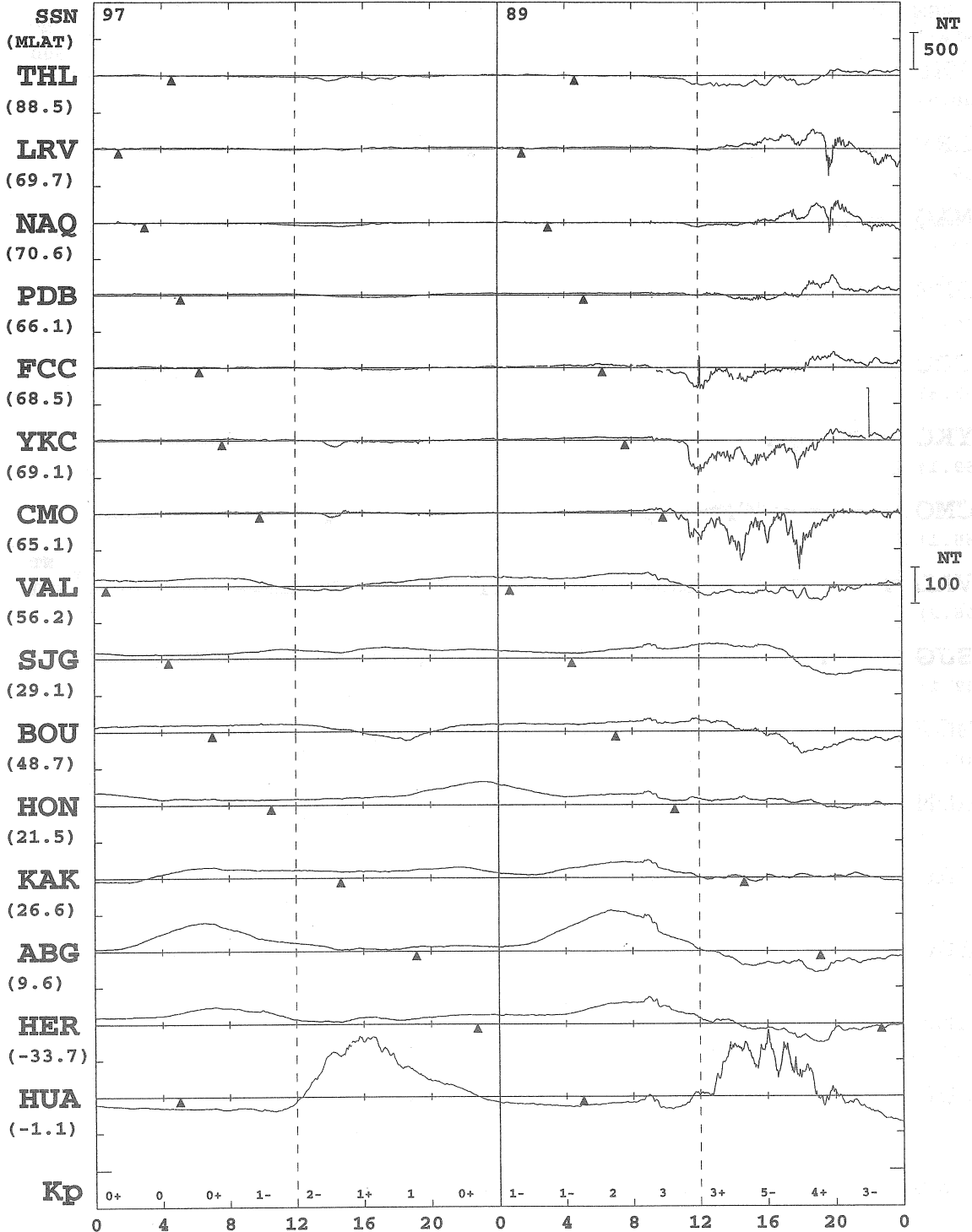
OCT 19  
(DAY 293)

OCT 20  
(DAY 294)

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

KYOTO UNIV.

2000 H OR X-COMPONENT  $\Delta$  : LOCAL MIDNIGHT



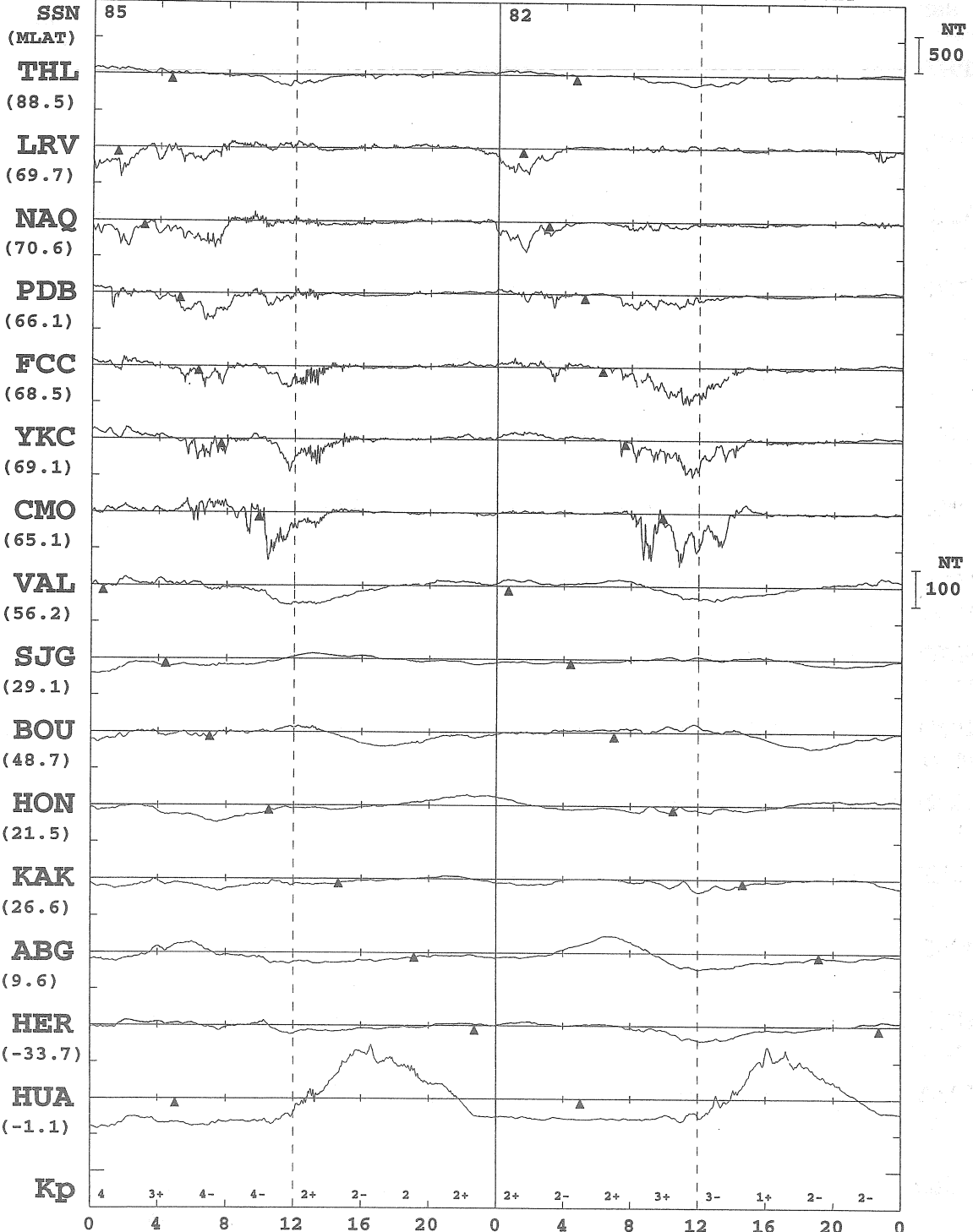
\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.



# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



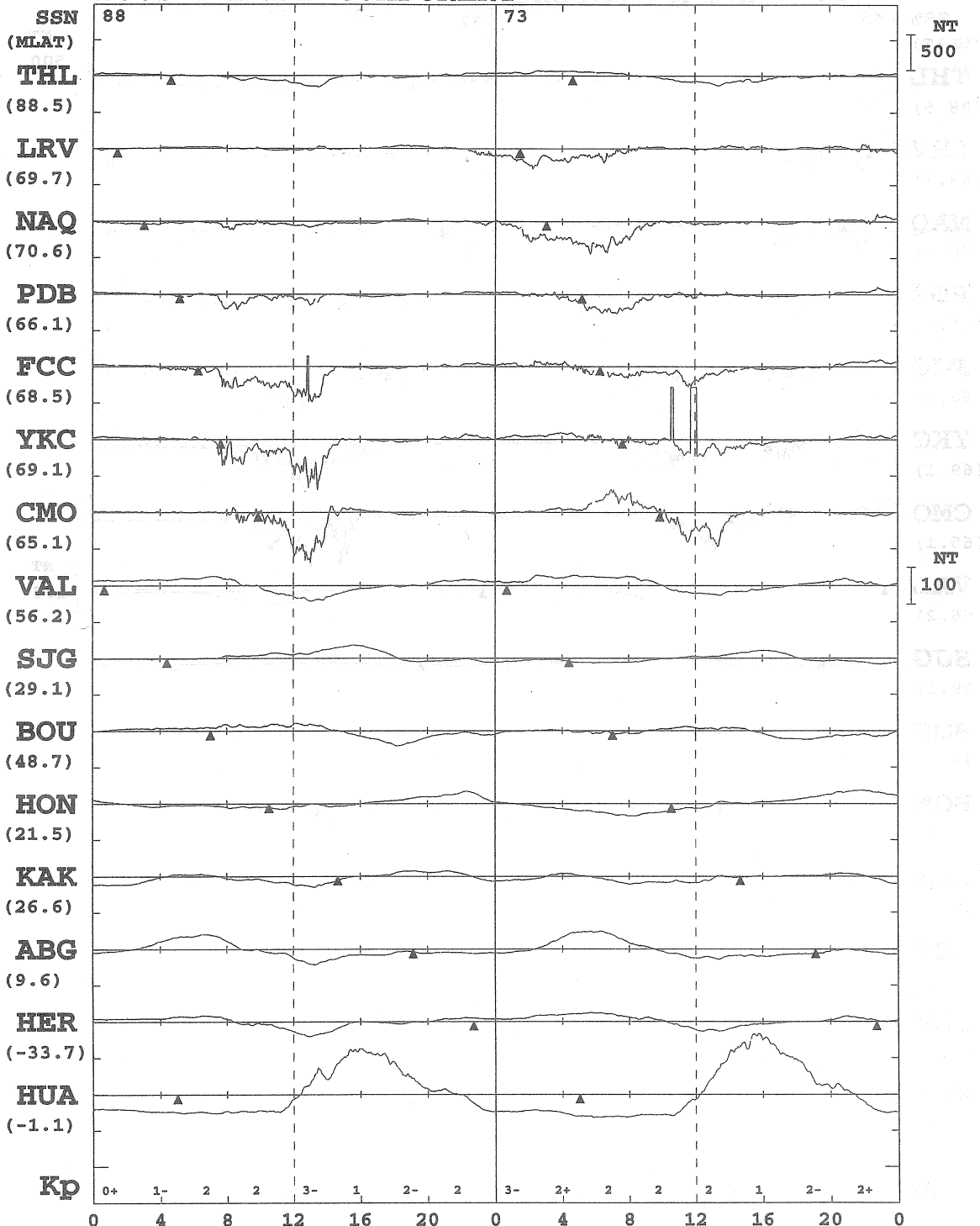
OCT 23  
(DAY 297)

OCT 24  
(DAY 298)

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

KYOTO UNIV.

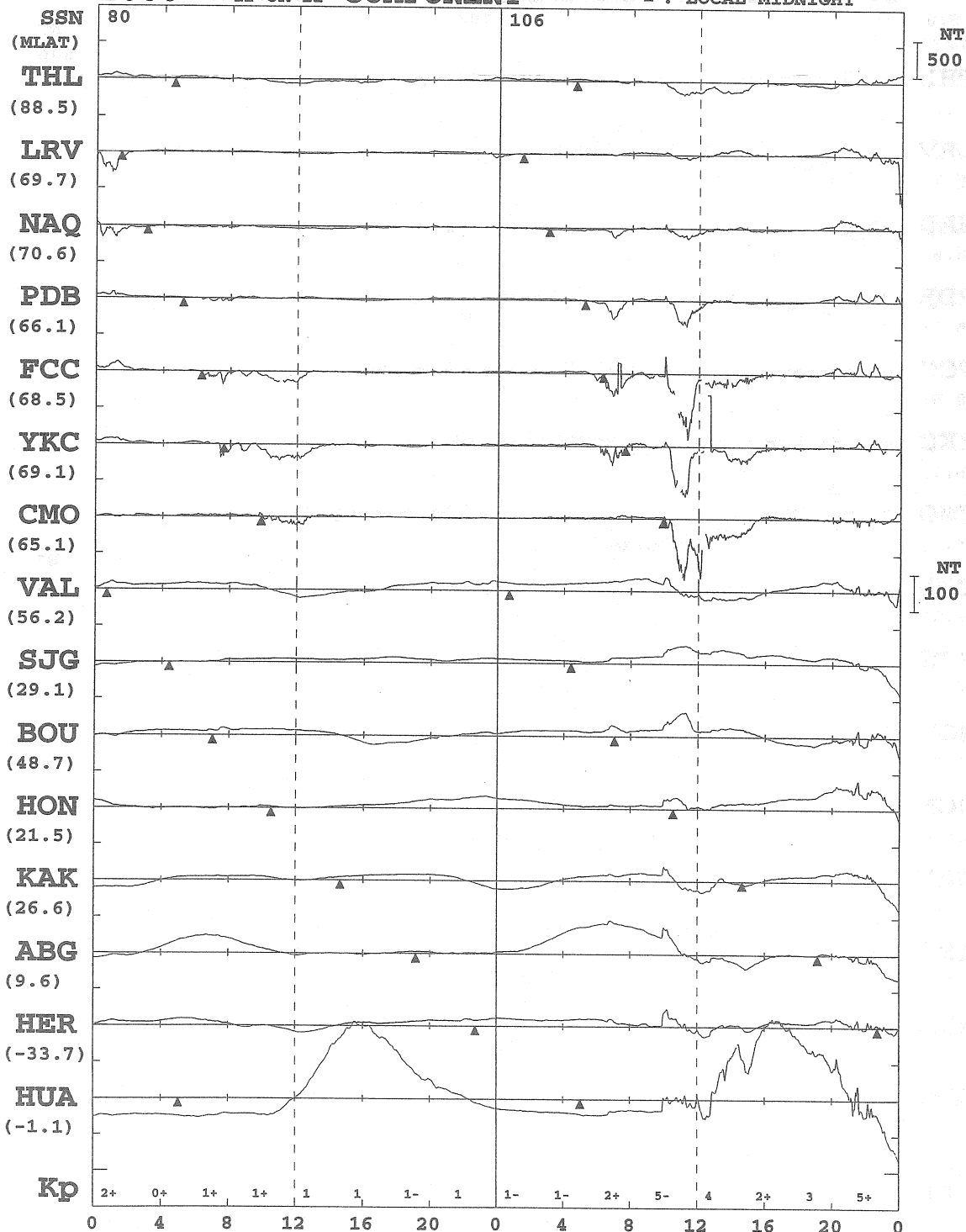
# 2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



**OCT 25 (DAY 299)** **OCT 26 (DAY 300)**

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

2000 H OR X-COMPONENT  $\blacktriangle$  : LOCAL MIDNIGHT



OCT 27  
(DAY 301)

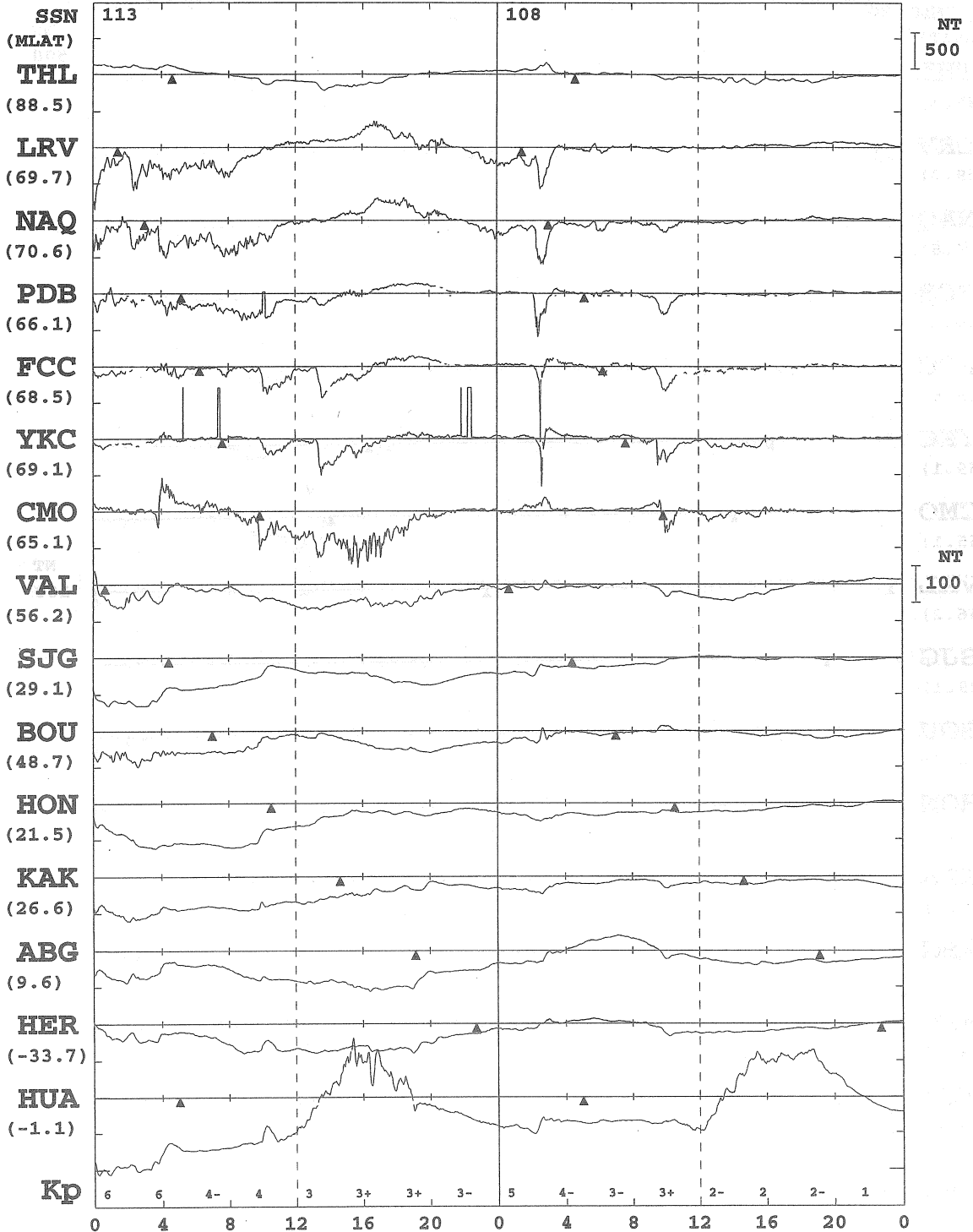
OCT 28  
(DAY 302)

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

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

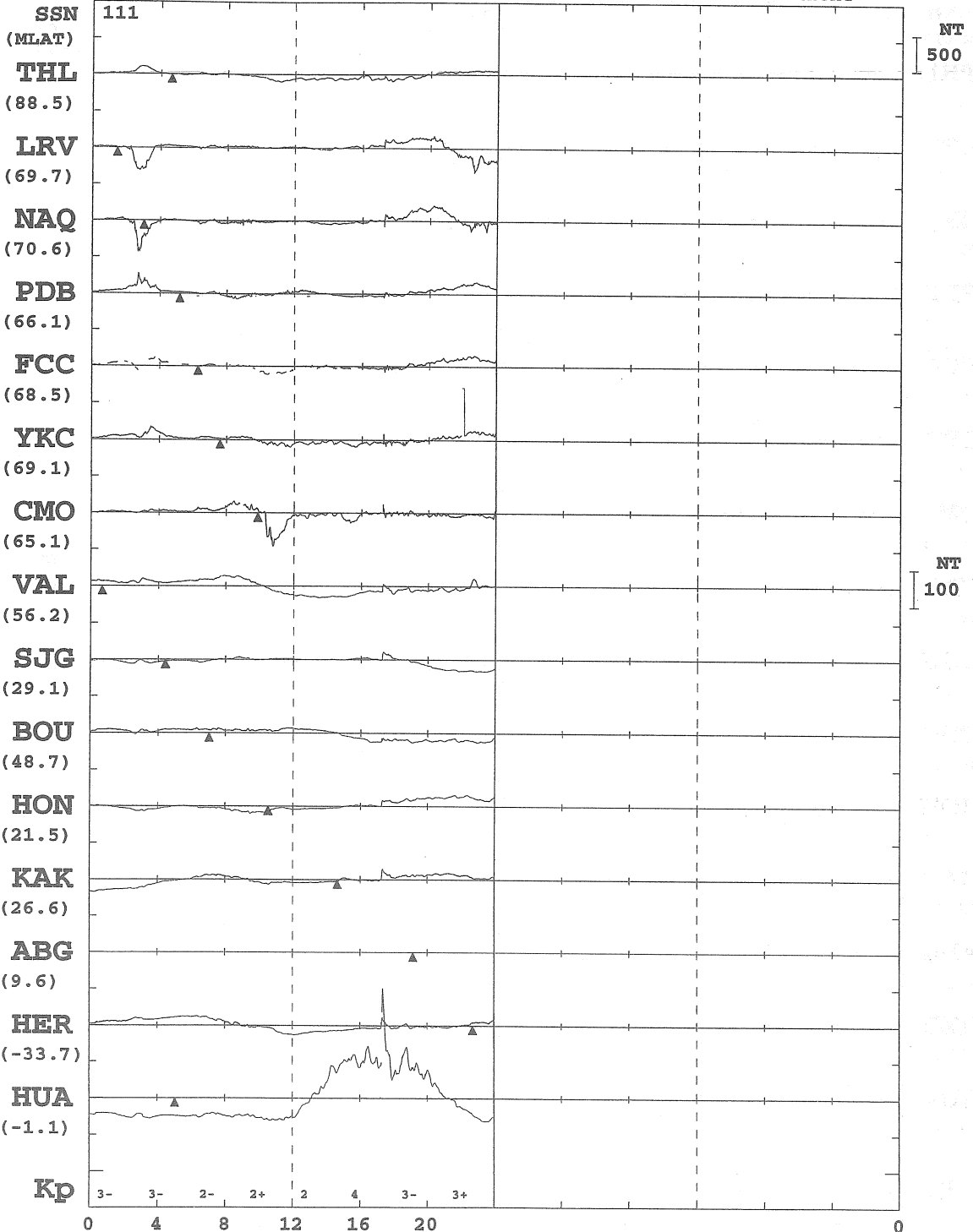


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

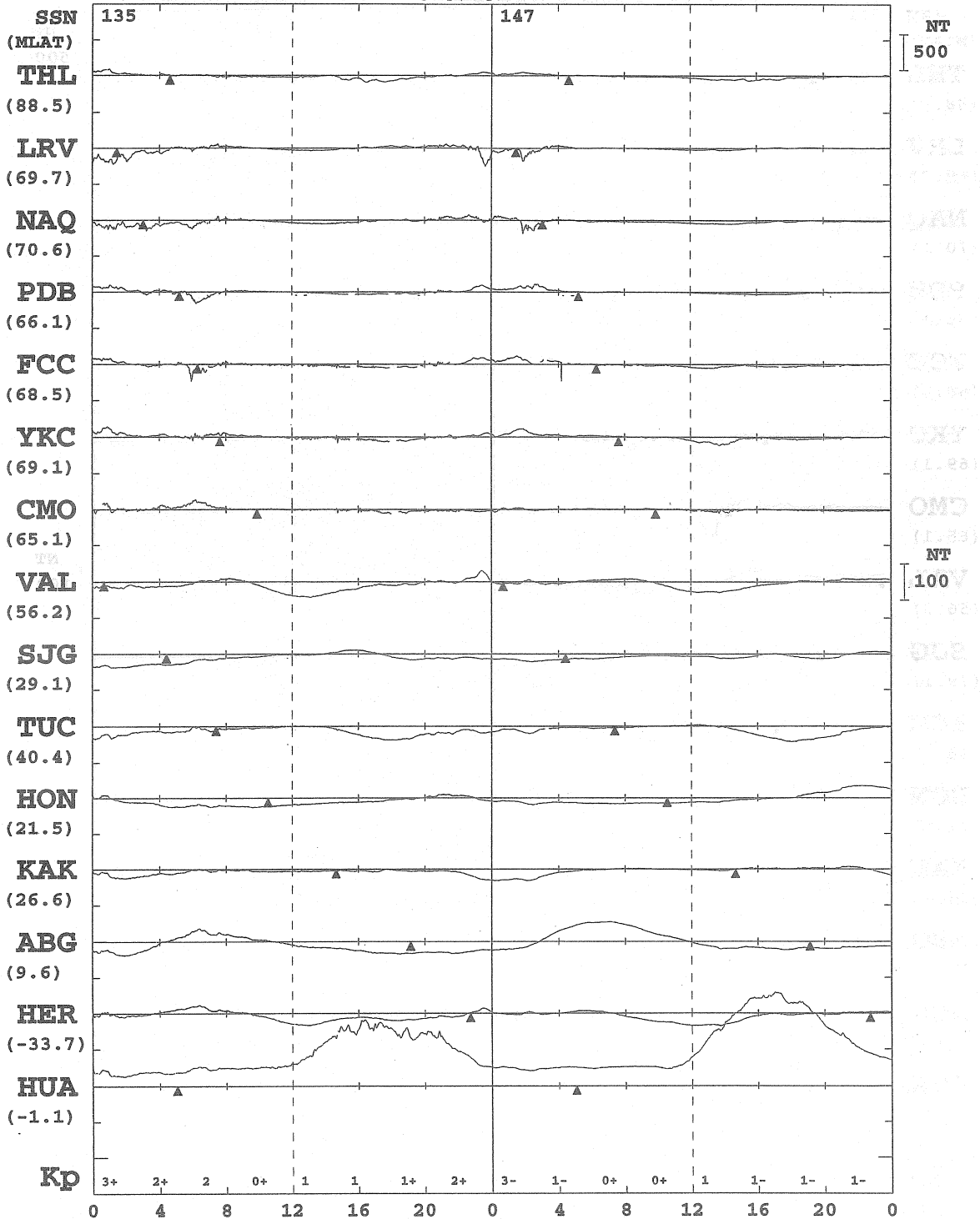


OCT 31  
(DAY 305)

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

KYOTO UNIV.

2000 H OR X-COMPONENT  $\Delta$  : LOCAL MIDNIGHT



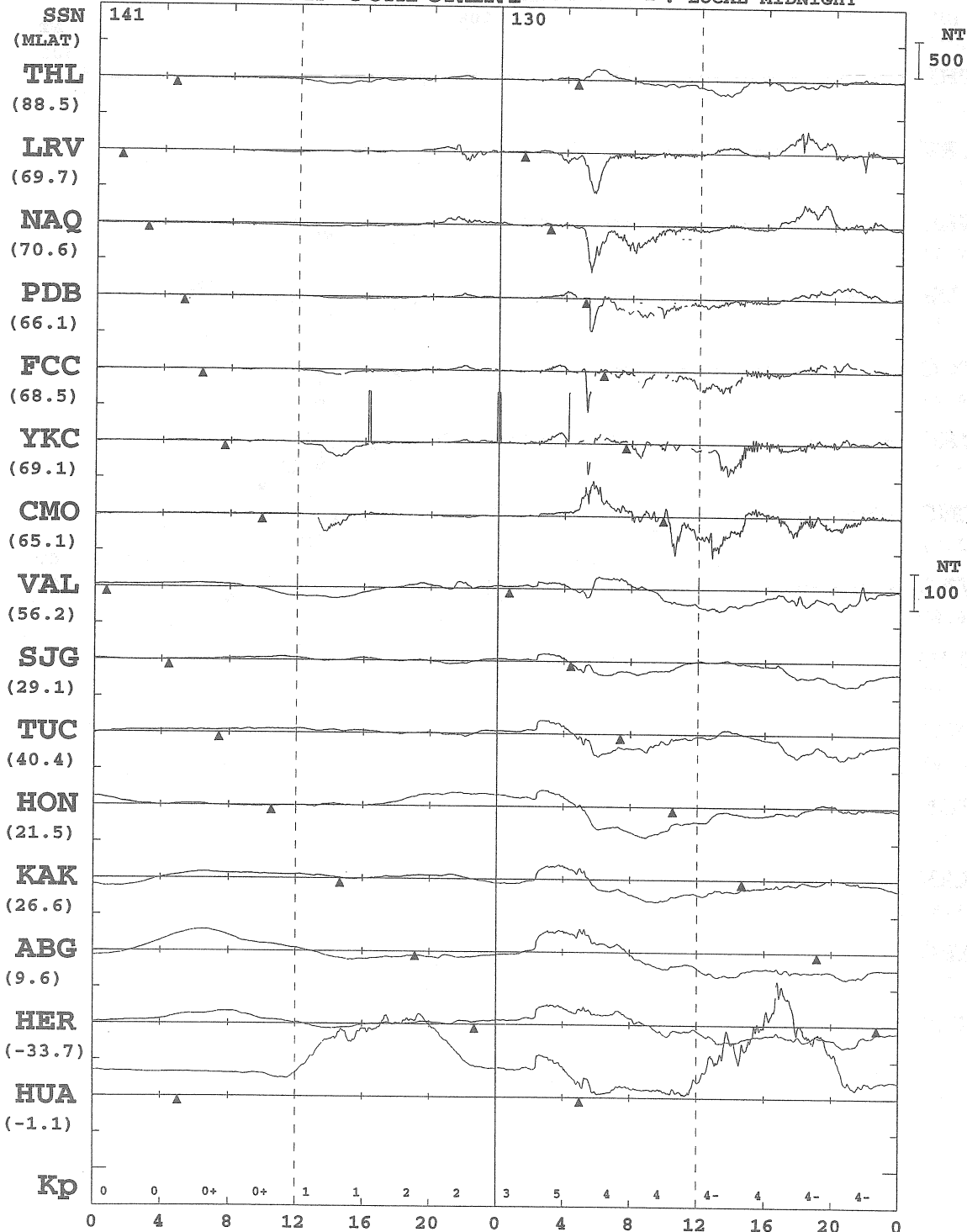
NOV 1  
(DAY 306)

NOV 2  
(DAY 307)

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

KYOTO UNIV.

2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



NOV 3  
(DAY 308)

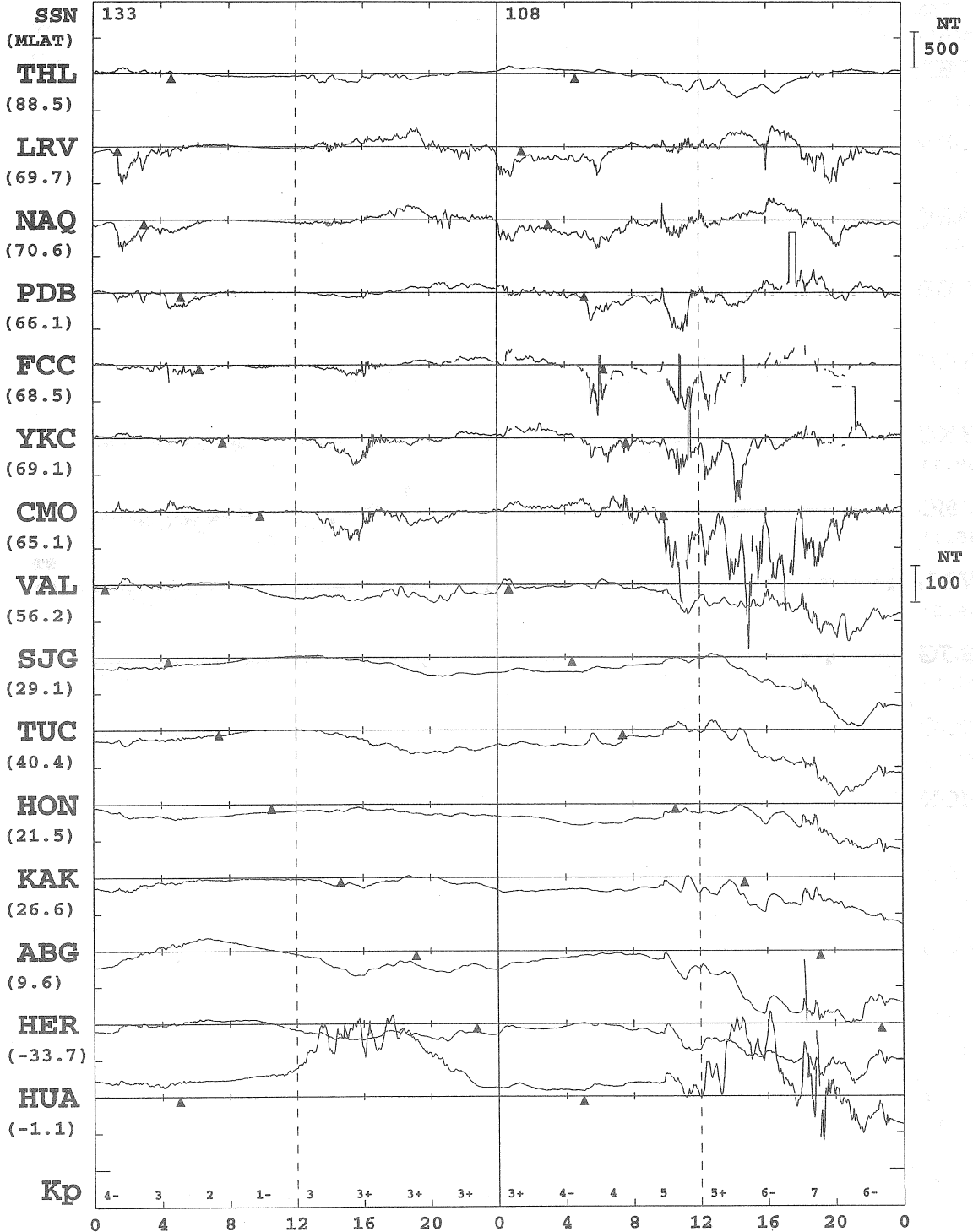
NOV 4  
(DAY 309)

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

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



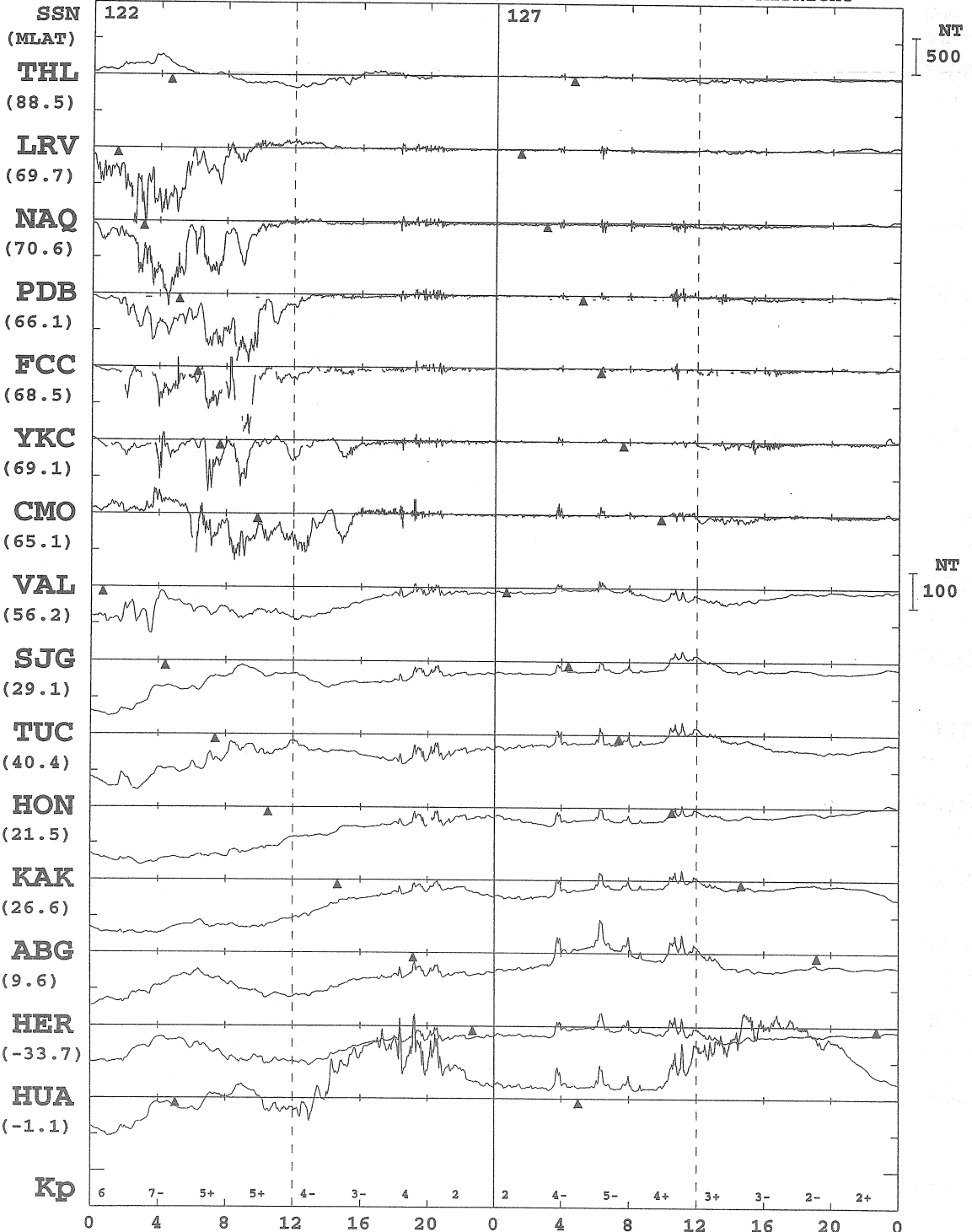
\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.



# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



NOV 7  
(DAY 312)

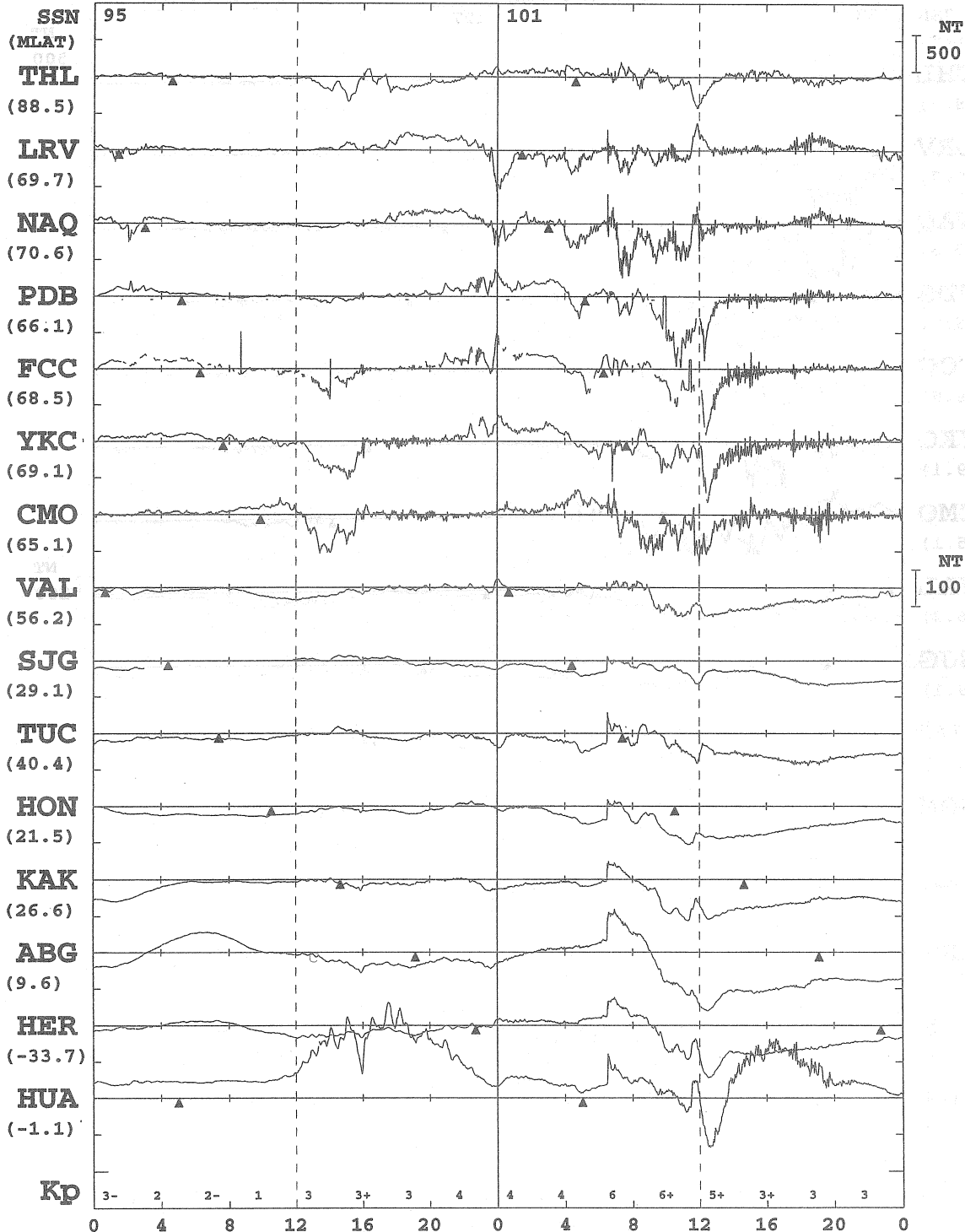
NOV 8  
(DAY 313)

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

KYOTO UNIV.

# 2000 H OR X-COMPONENT

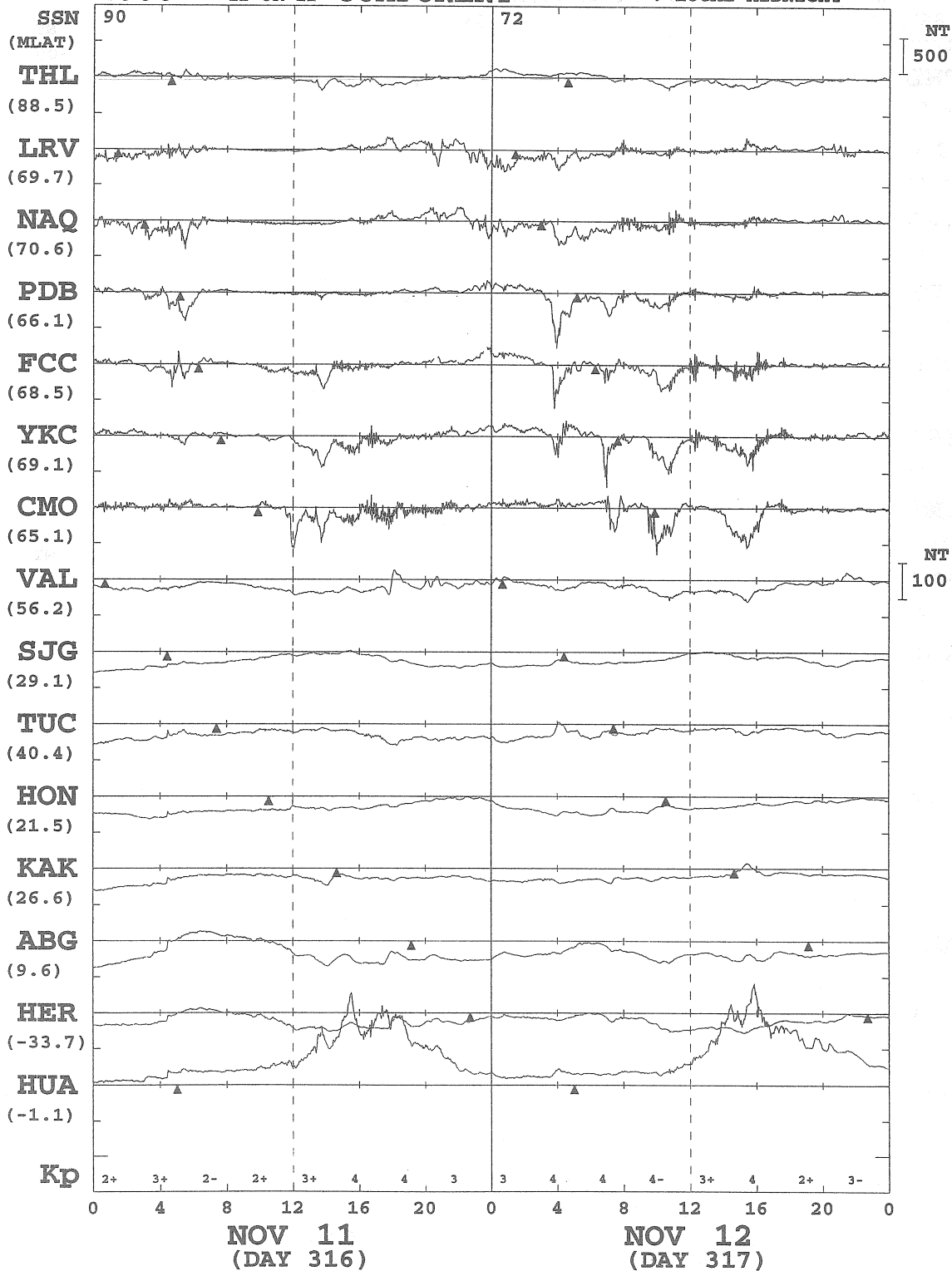
▲ : LOCAL MIDNIGHT



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

KYOTO UNIV.

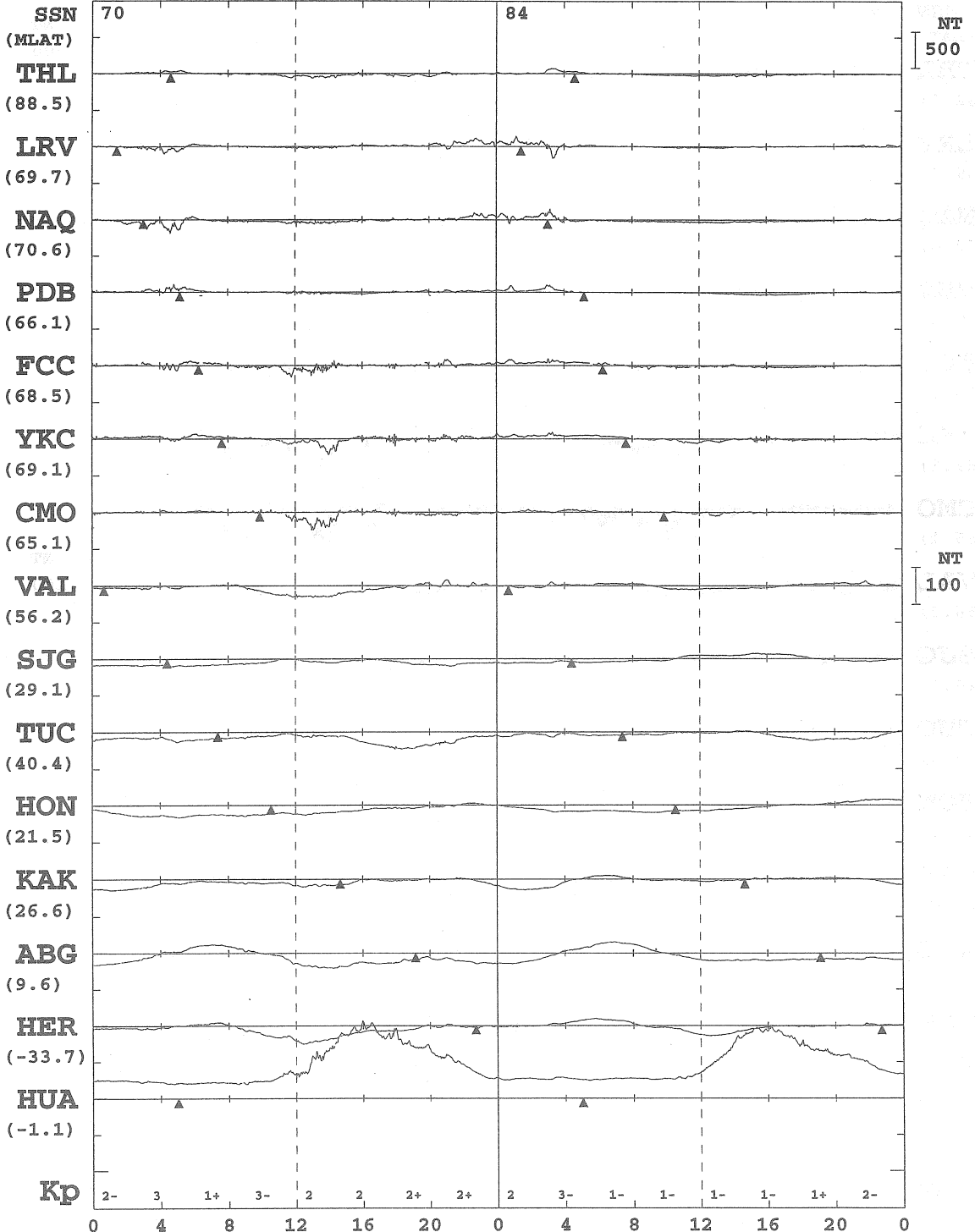
2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



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

KYOTO UNIV.

2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



NOV 13  
(DAY 318)

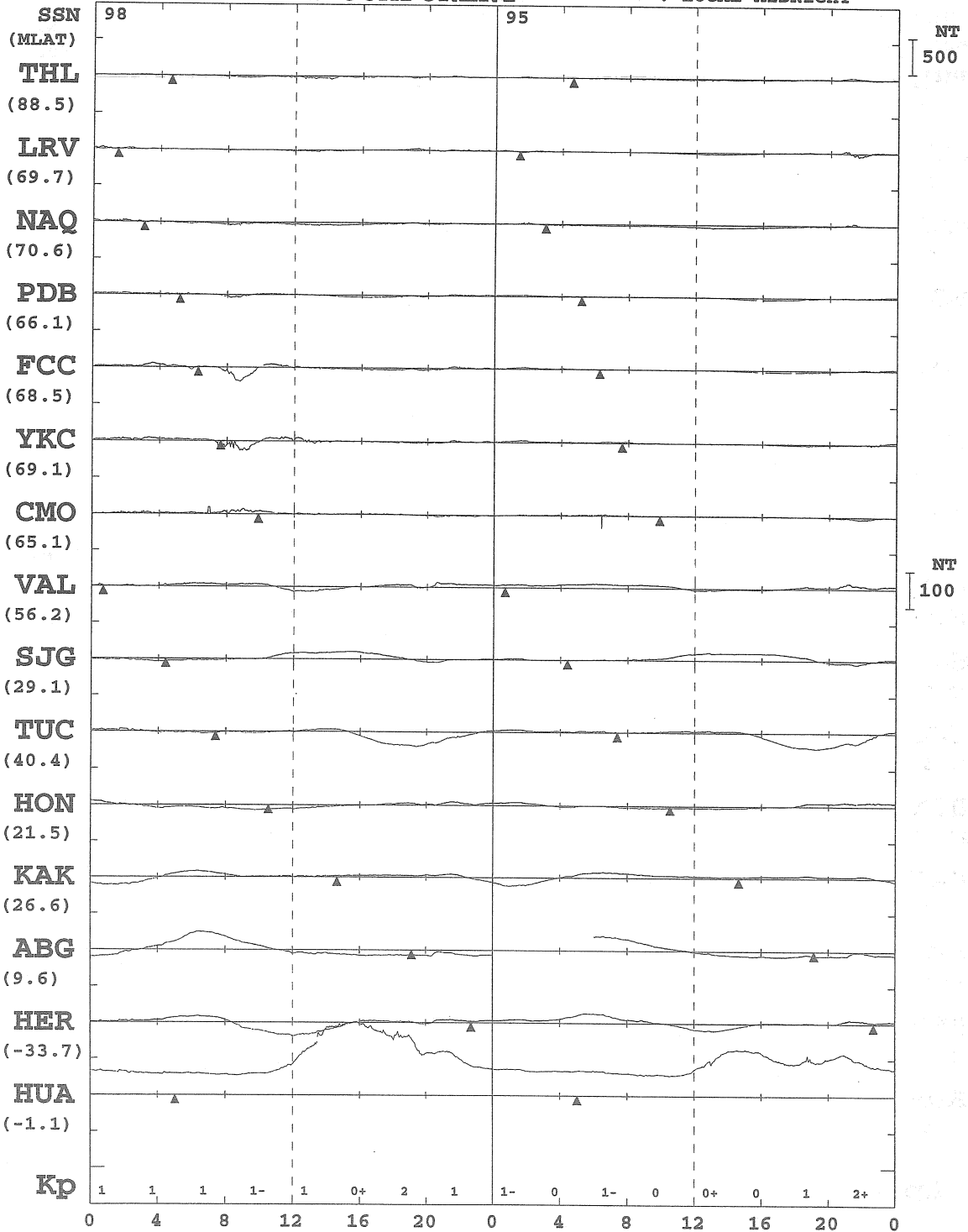
NOV 14  
(DAY 319)

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

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



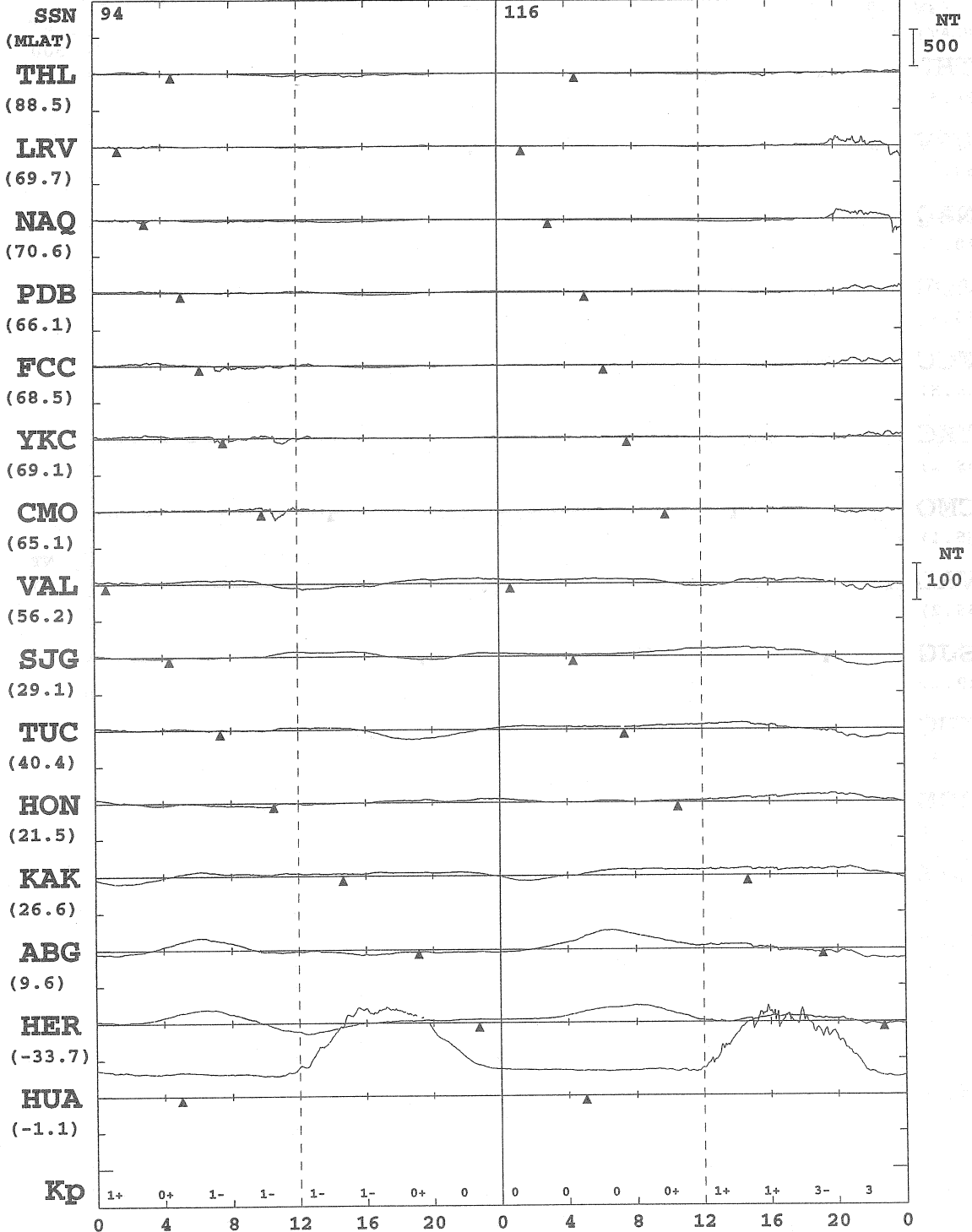
NOV 15  
(DAY 320)

NOV 16  
(DAY 321)

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

KYOTO UNIV.

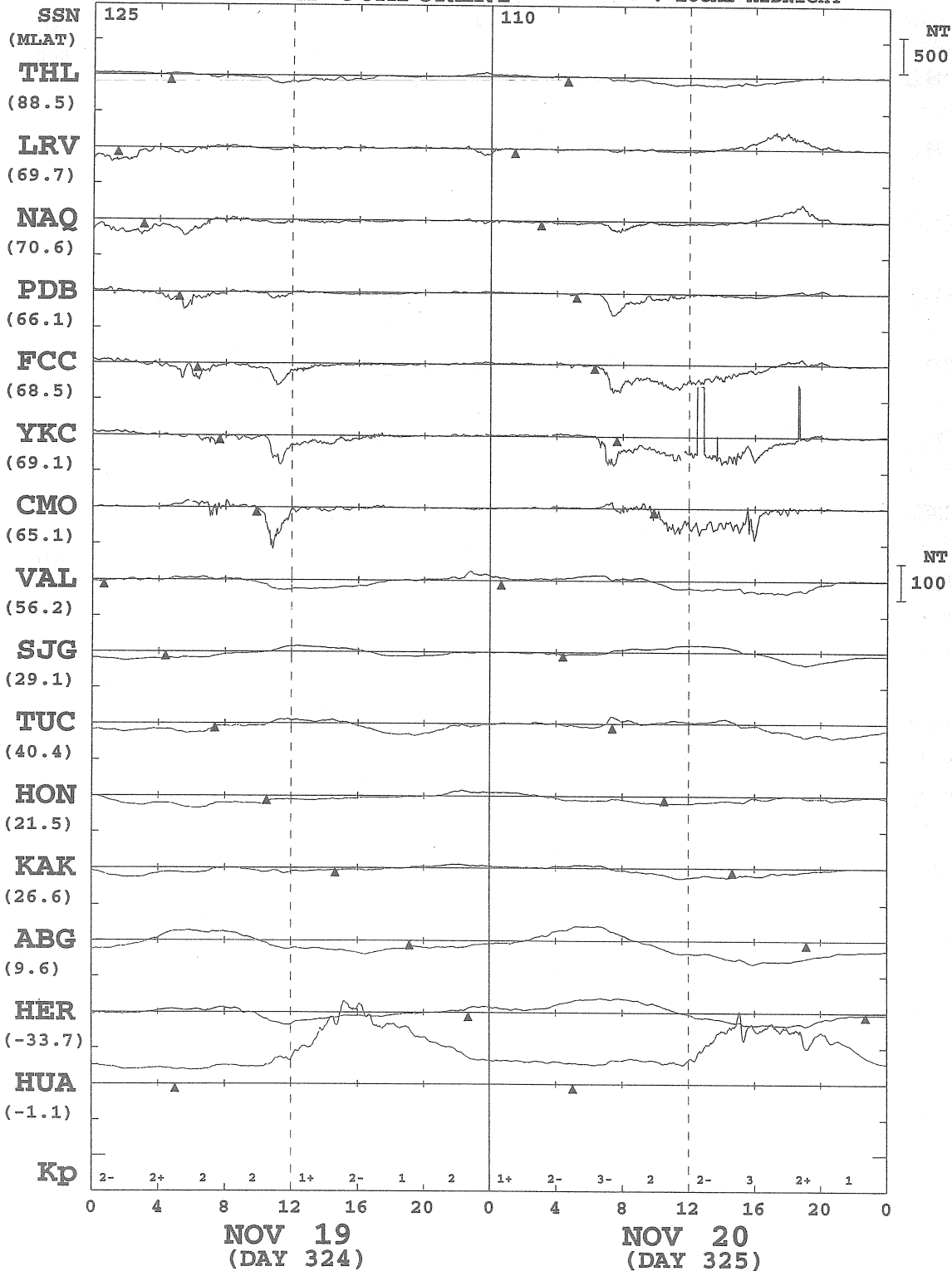
2000 H OR X-COMPONENT  $\Delta$  : LOCAL MIDNIGHT



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

KYOTO UNIV.

2000 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

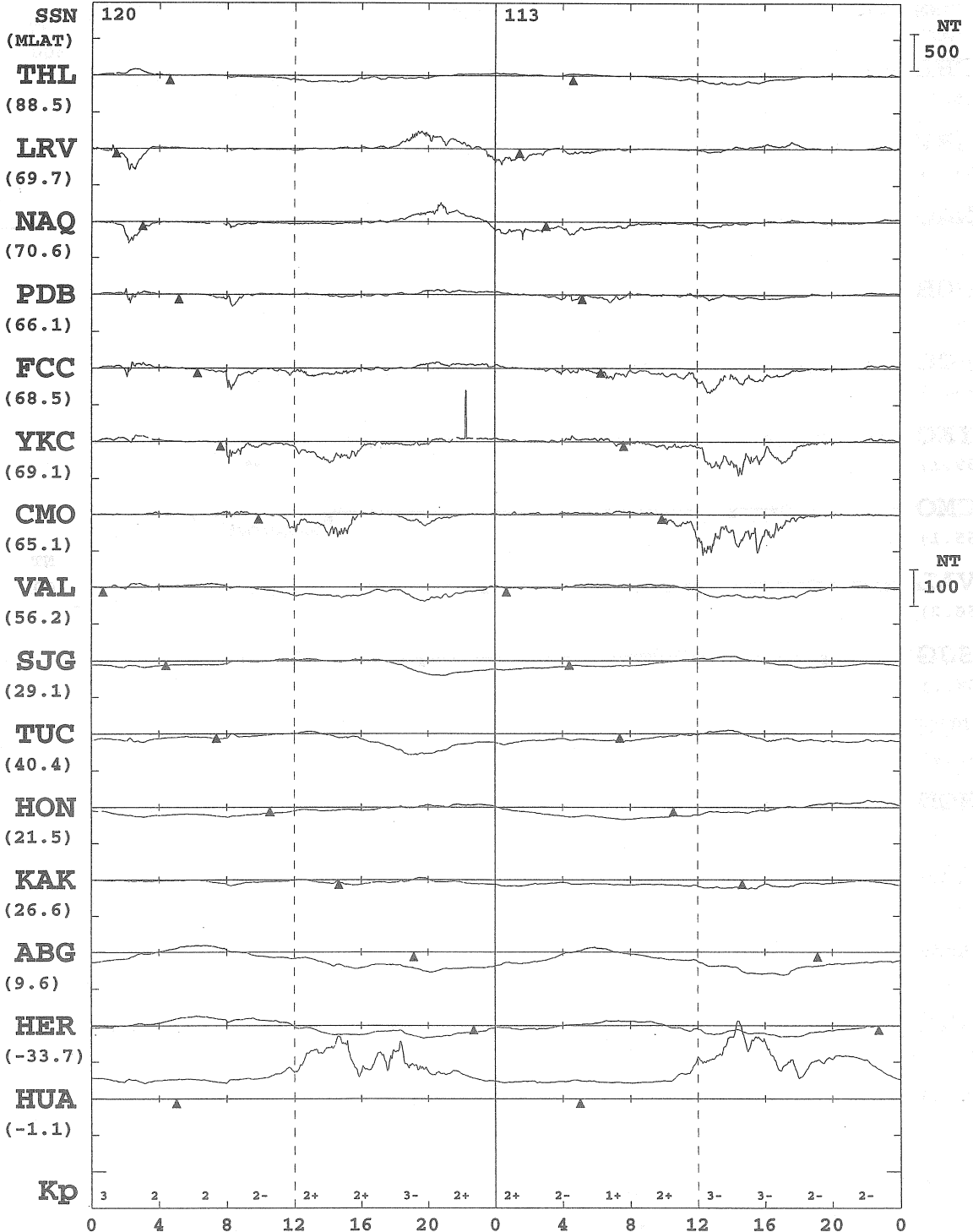


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



NOV 21  
(DAY 326)

NOV 22  
(DAY 327)

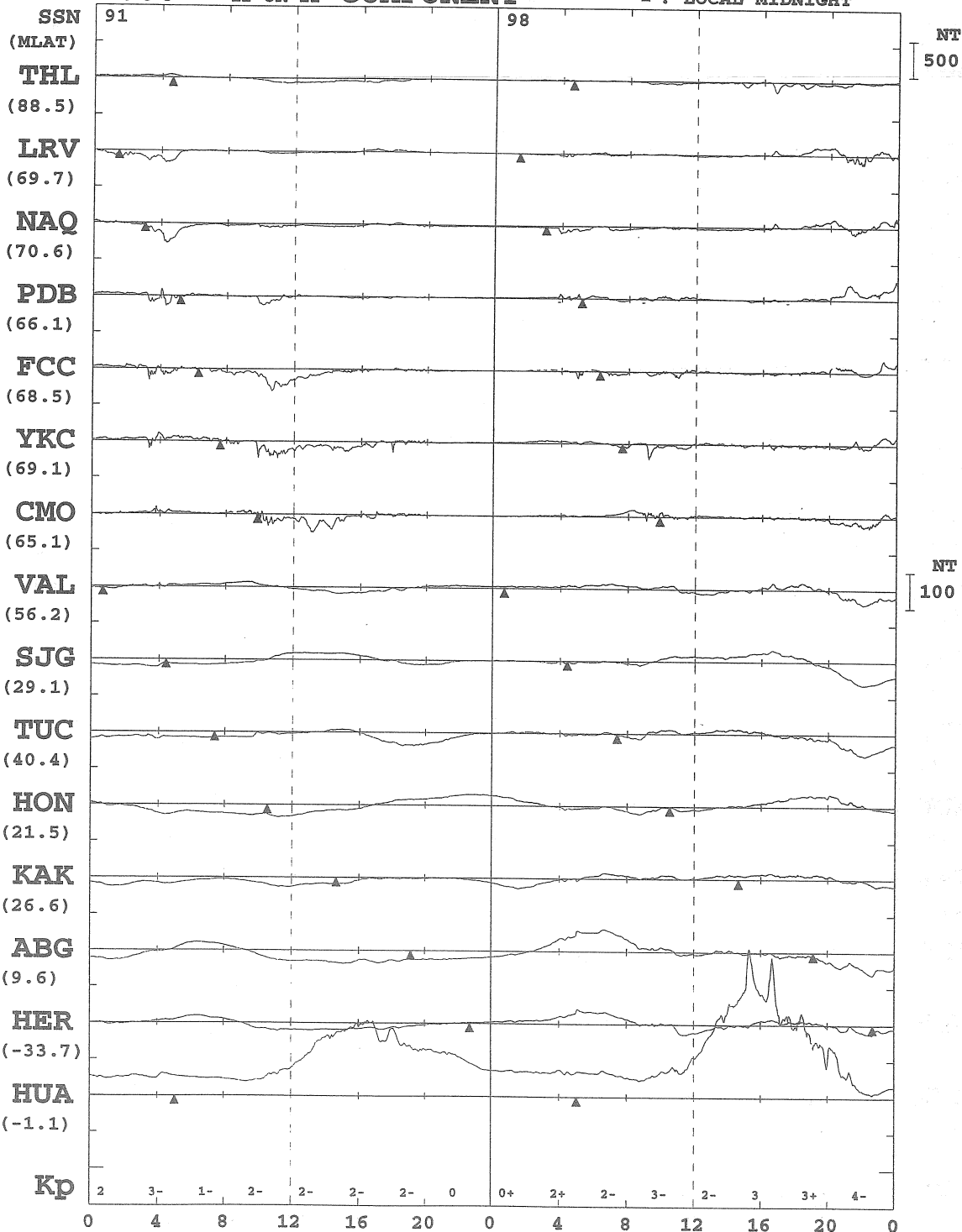
\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.



# 2000 H OR X-COMPONENT

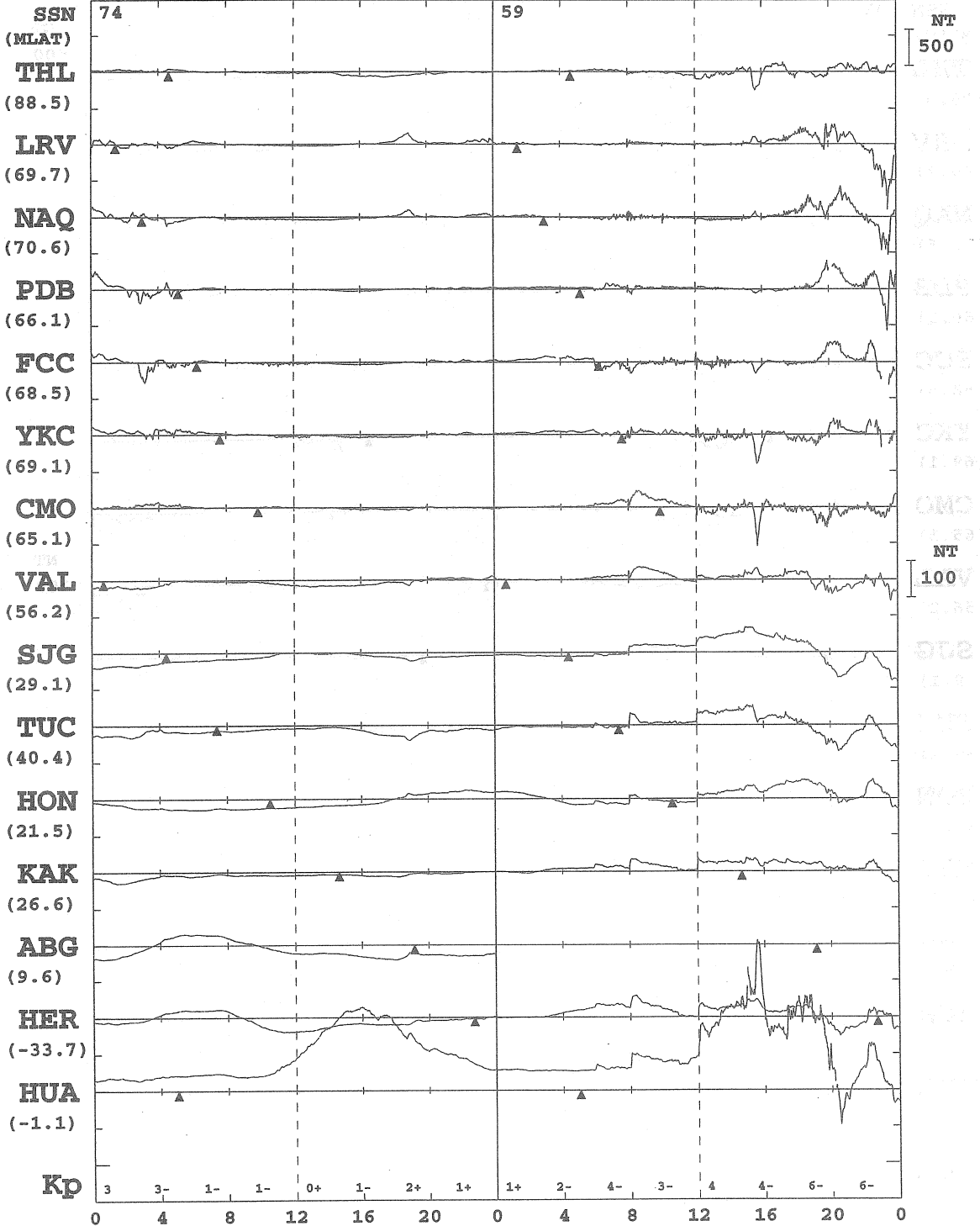
▲ : LOCAL MIDNIGHT



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

KYOTO UNIV.

2000 H OR X-COMPONENT  $\Delta$  : LOCAL MIDNIGHT

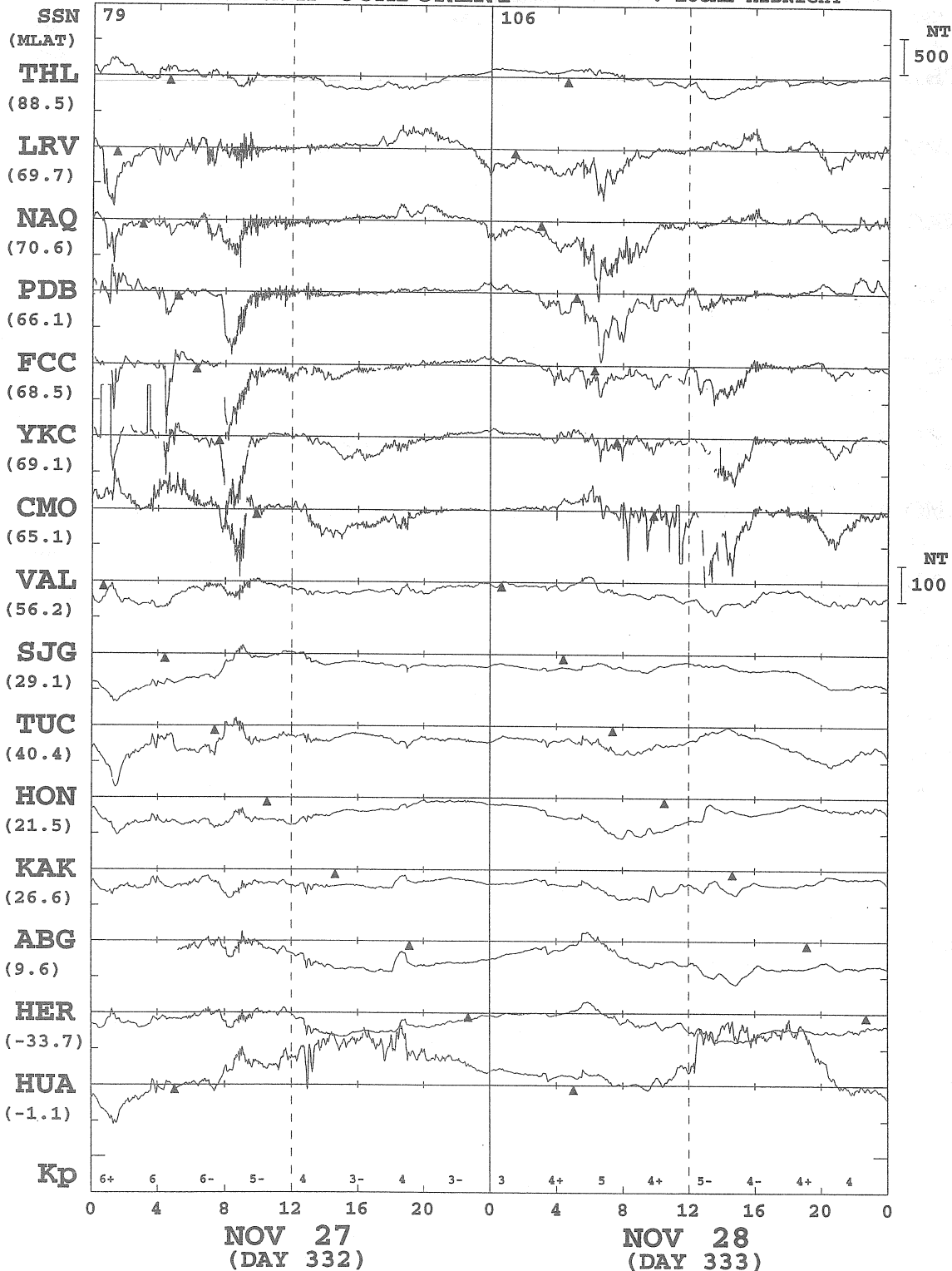


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

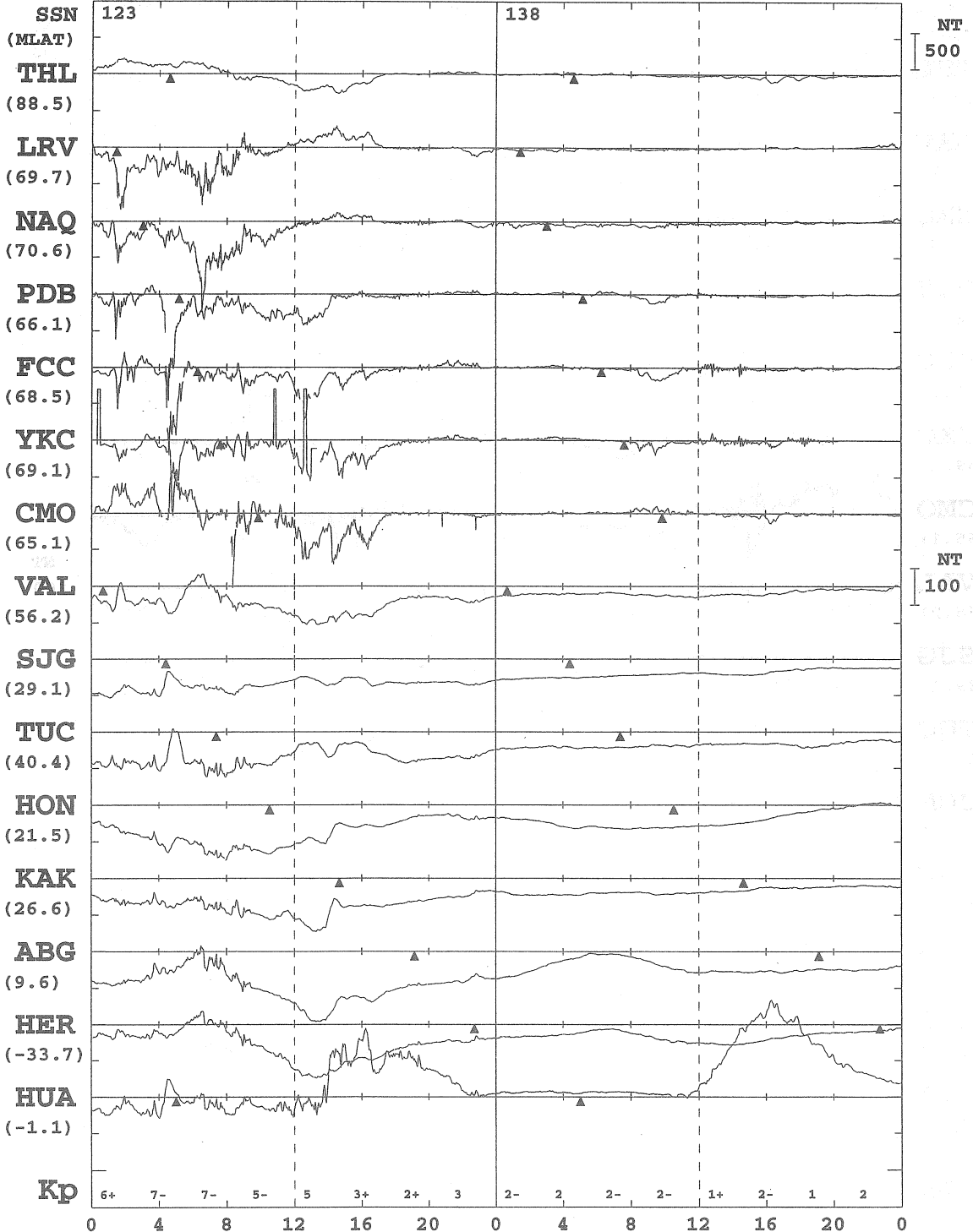


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

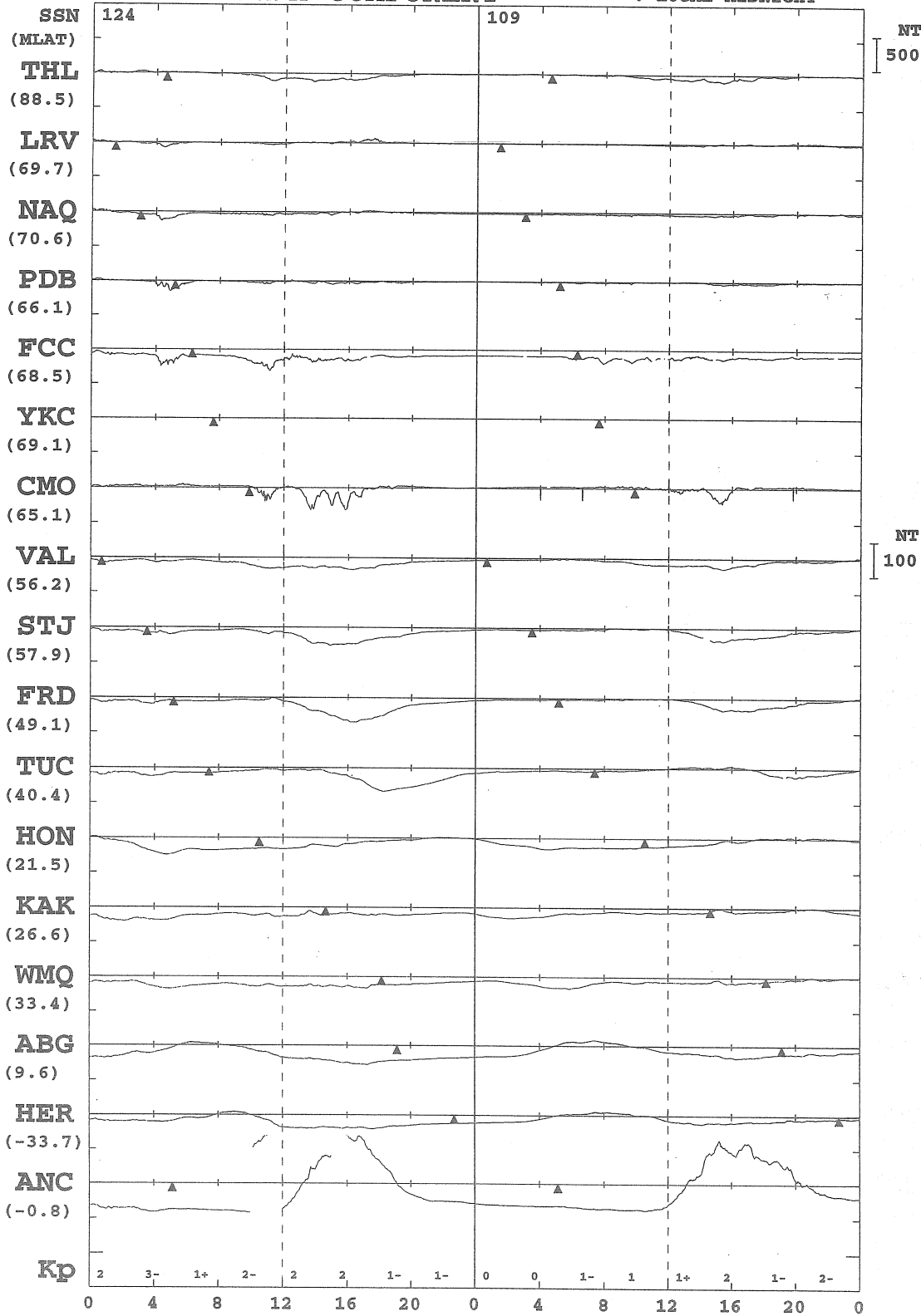


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

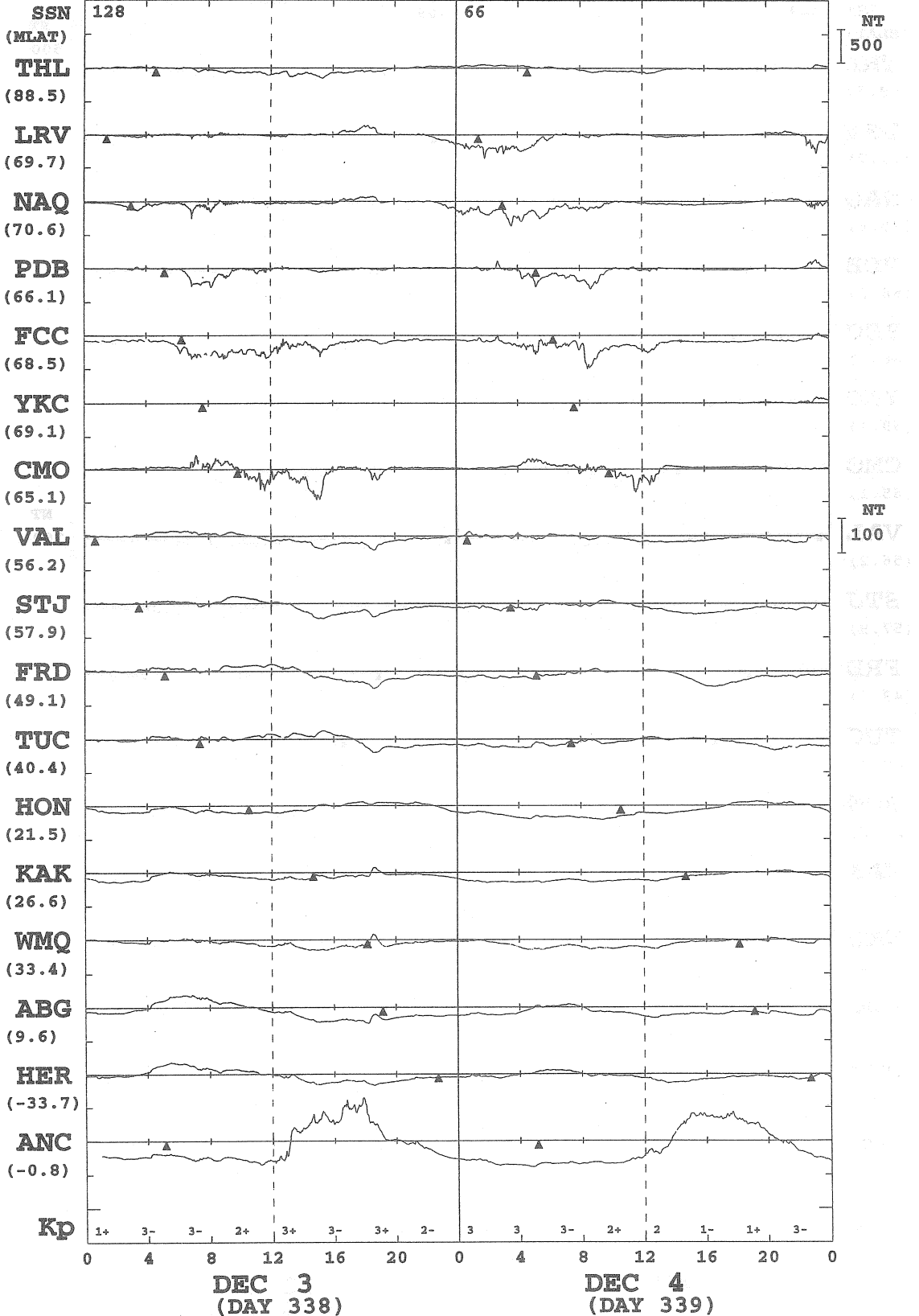


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

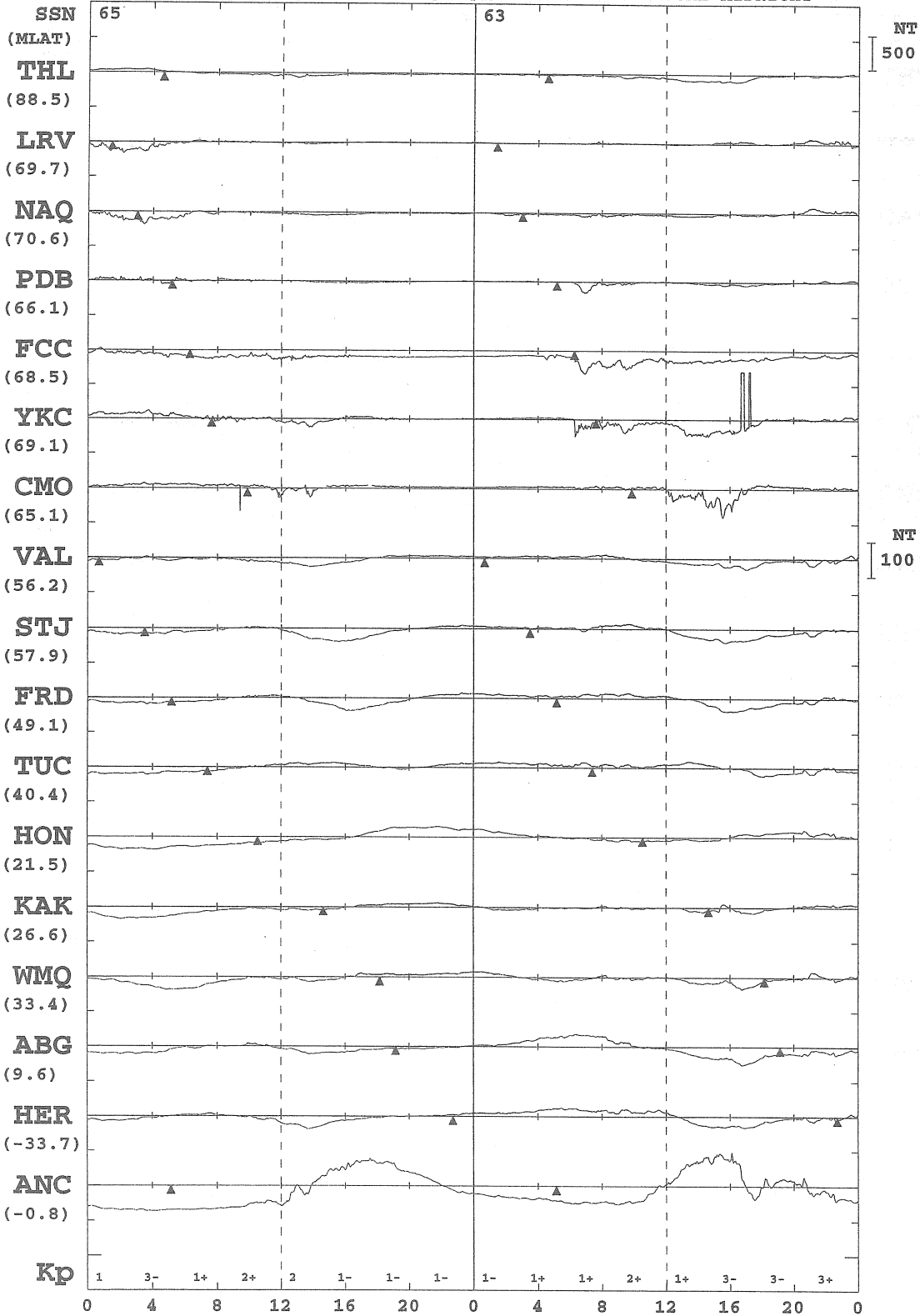


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.

2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



DEC 5  
(DAY 340)

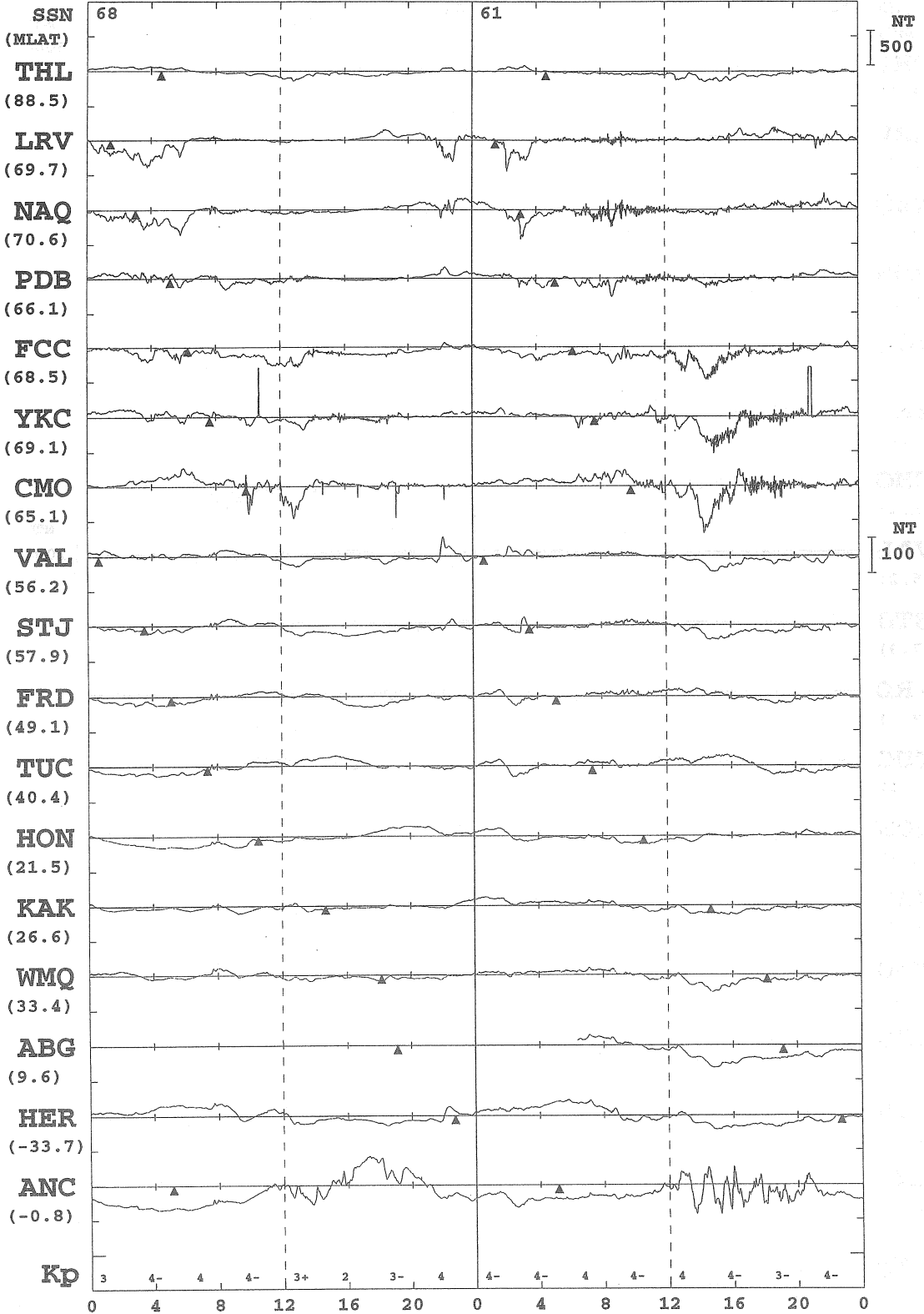
DEC 6  
(DAY 341)

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

KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



DEC 7  
(DAY 342)

DEC 8  
(DAY 343)

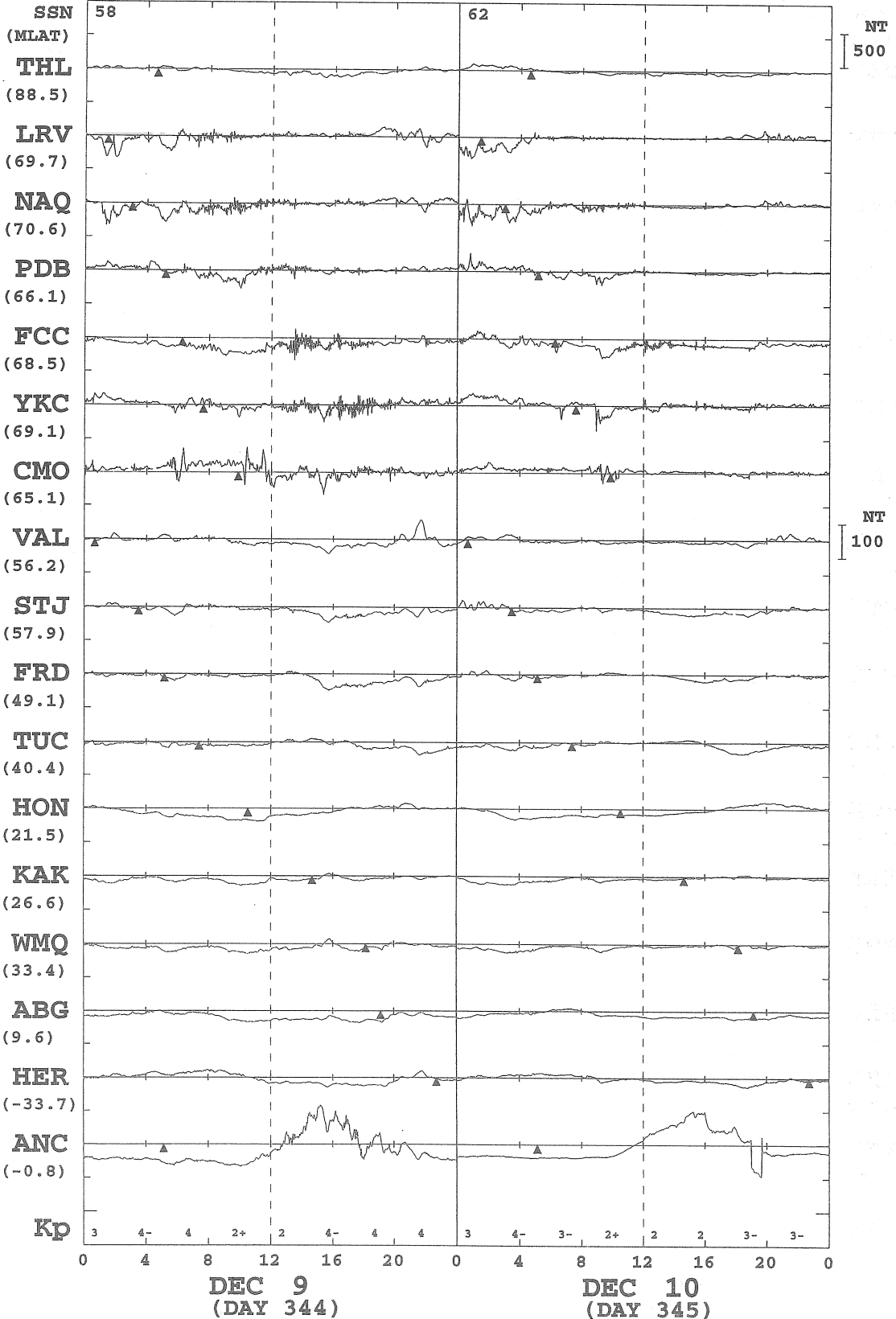
\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
\* PROMPT DATA ARE INCLUDED  
\* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

KYOTO UNIV.



2000 H OR X-COMPONENT

Δ : LOCAL MIDNIGHT

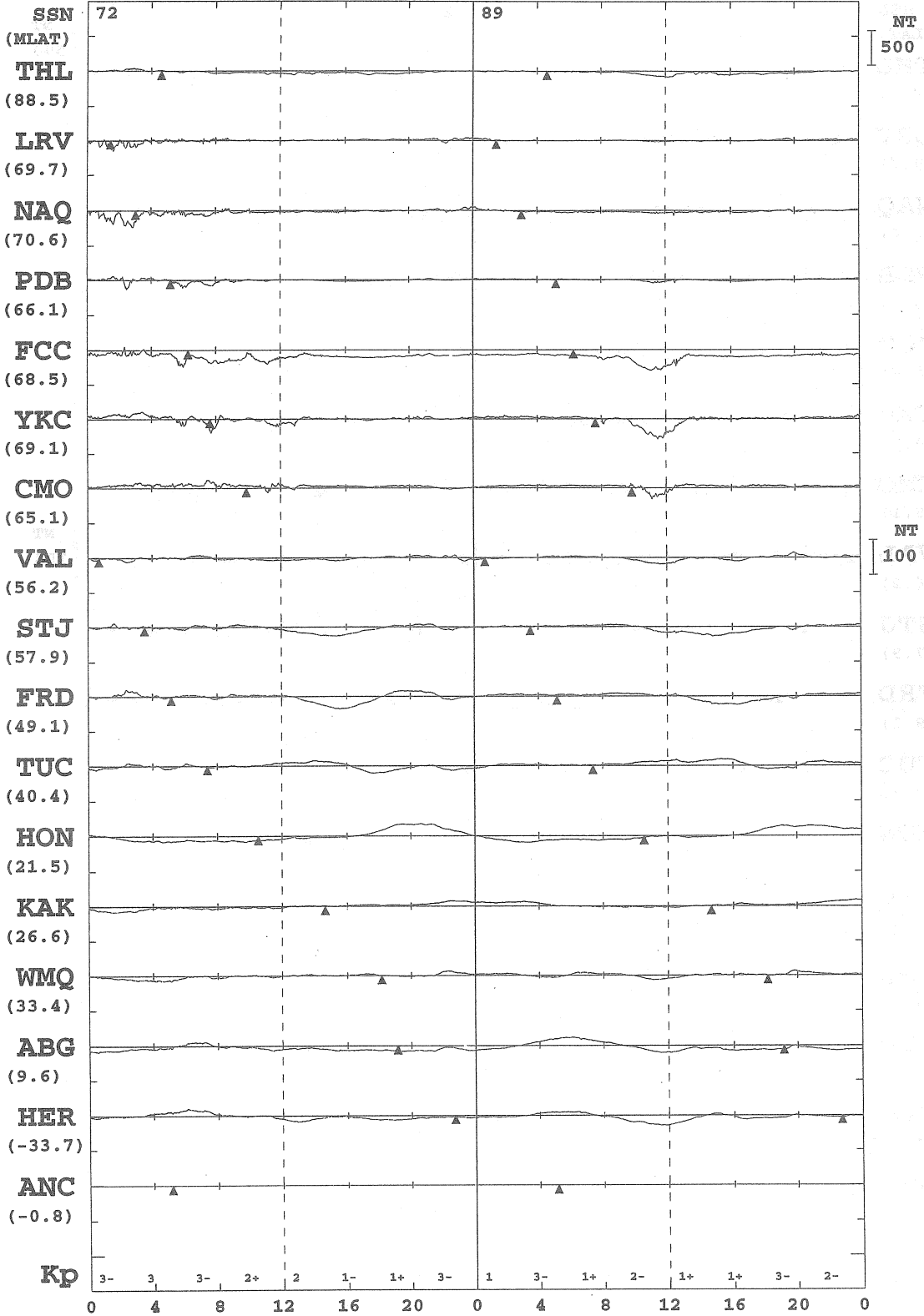


\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
 \* PROMPT DATA ARE INCLUDED  
 \* ARTIFICIAL NOISES ARE NOT ELIMINATED ENOUGH

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2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

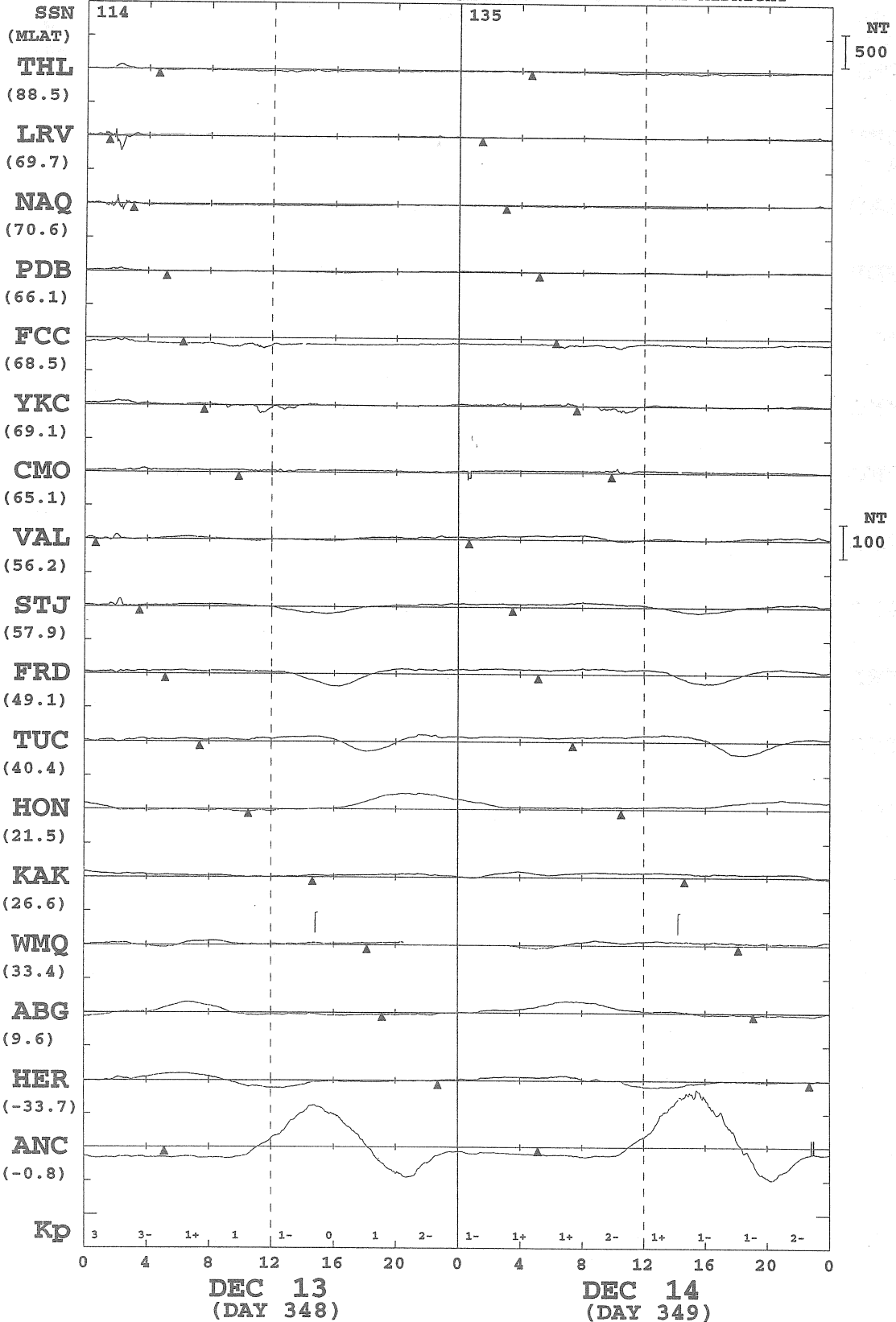


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# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

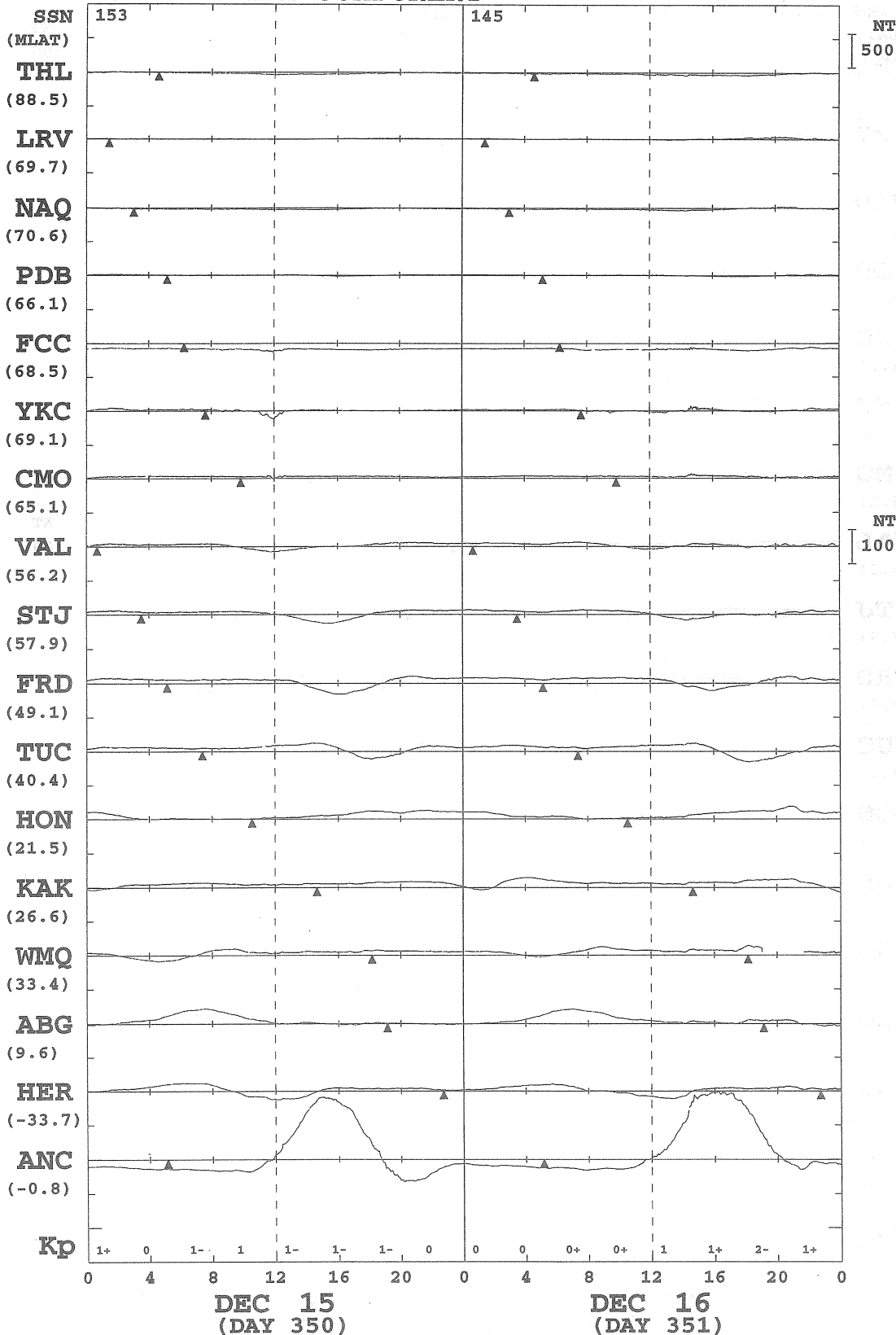


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KYOTO UNIV.

2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

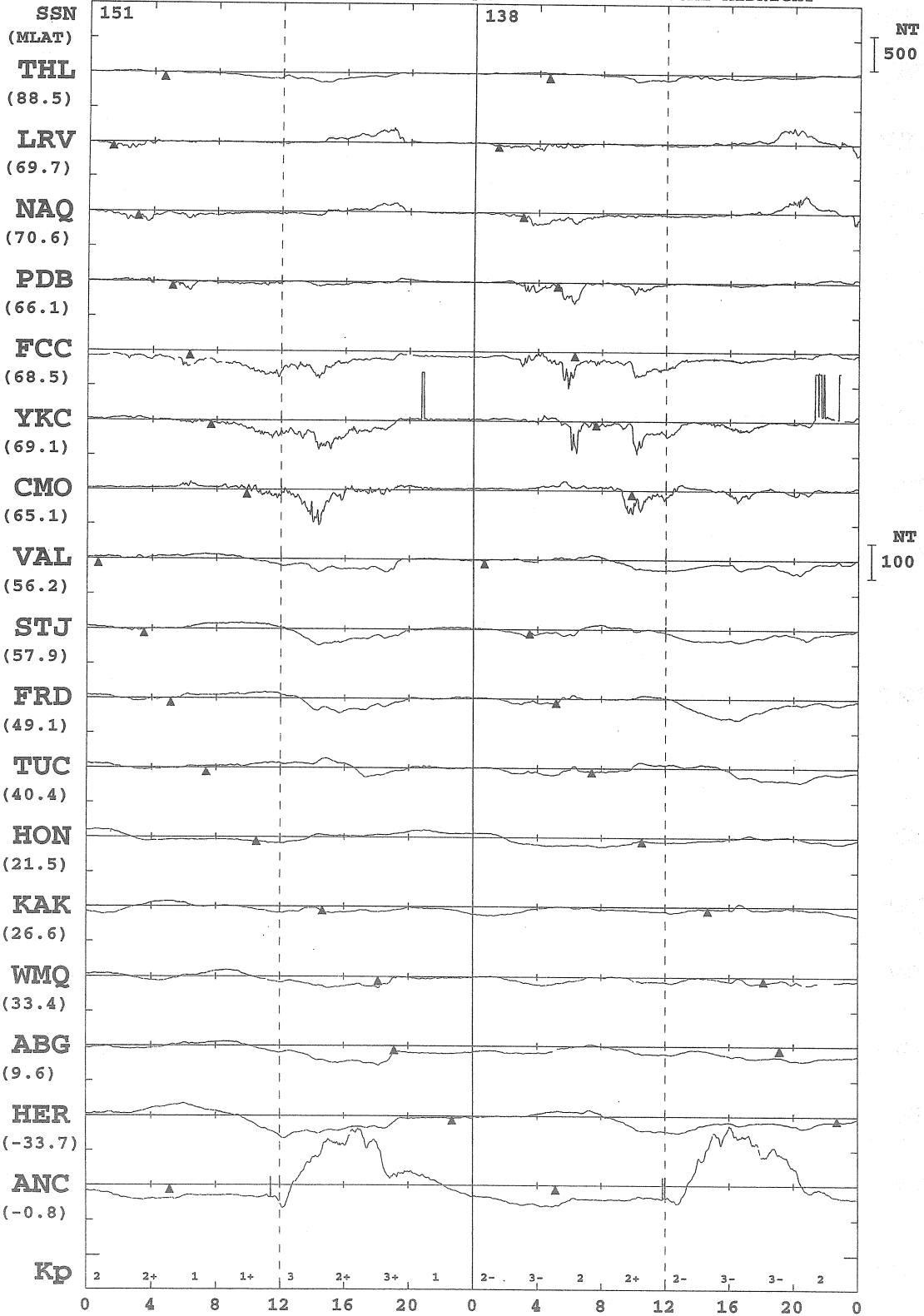


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KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

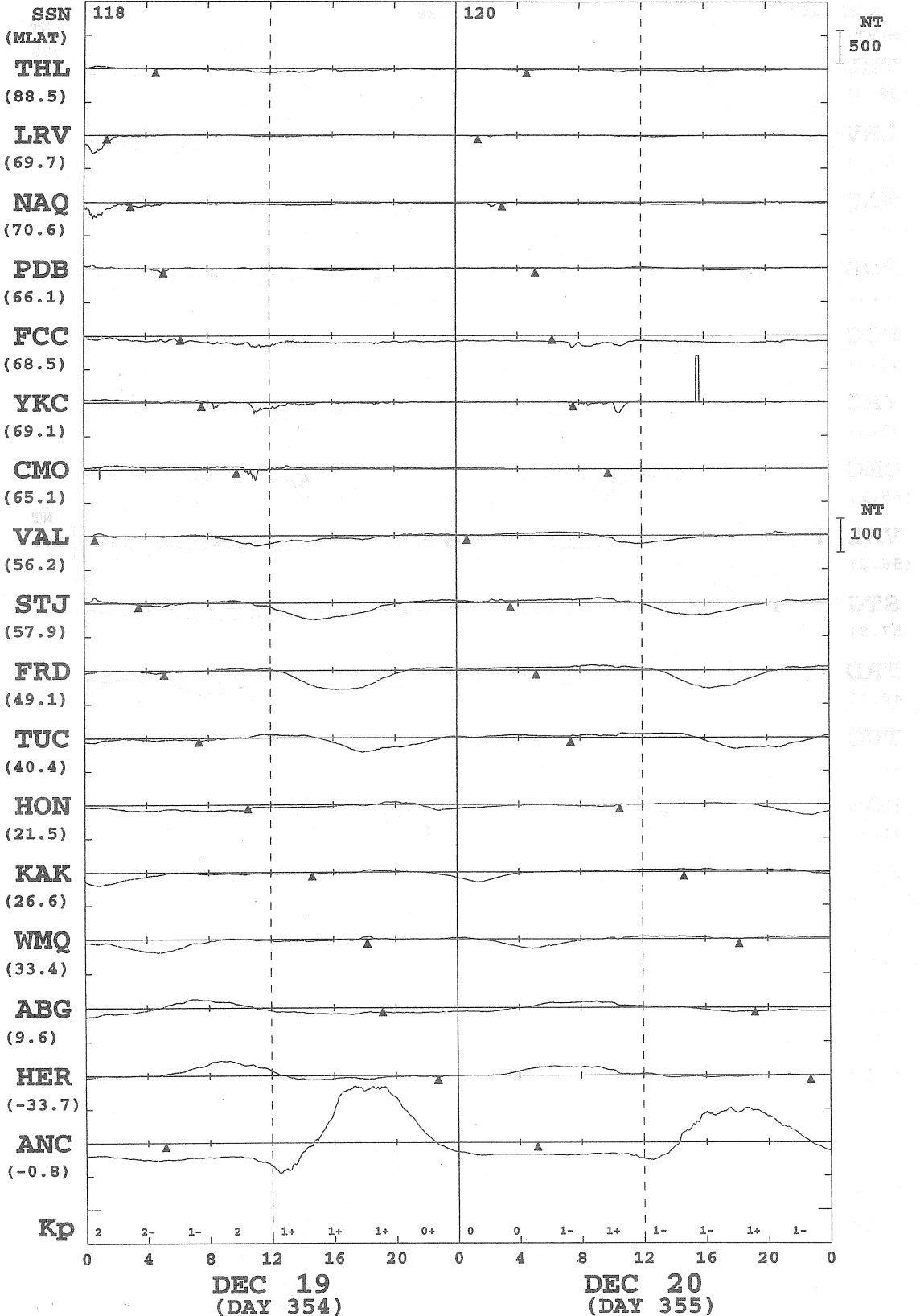


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KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

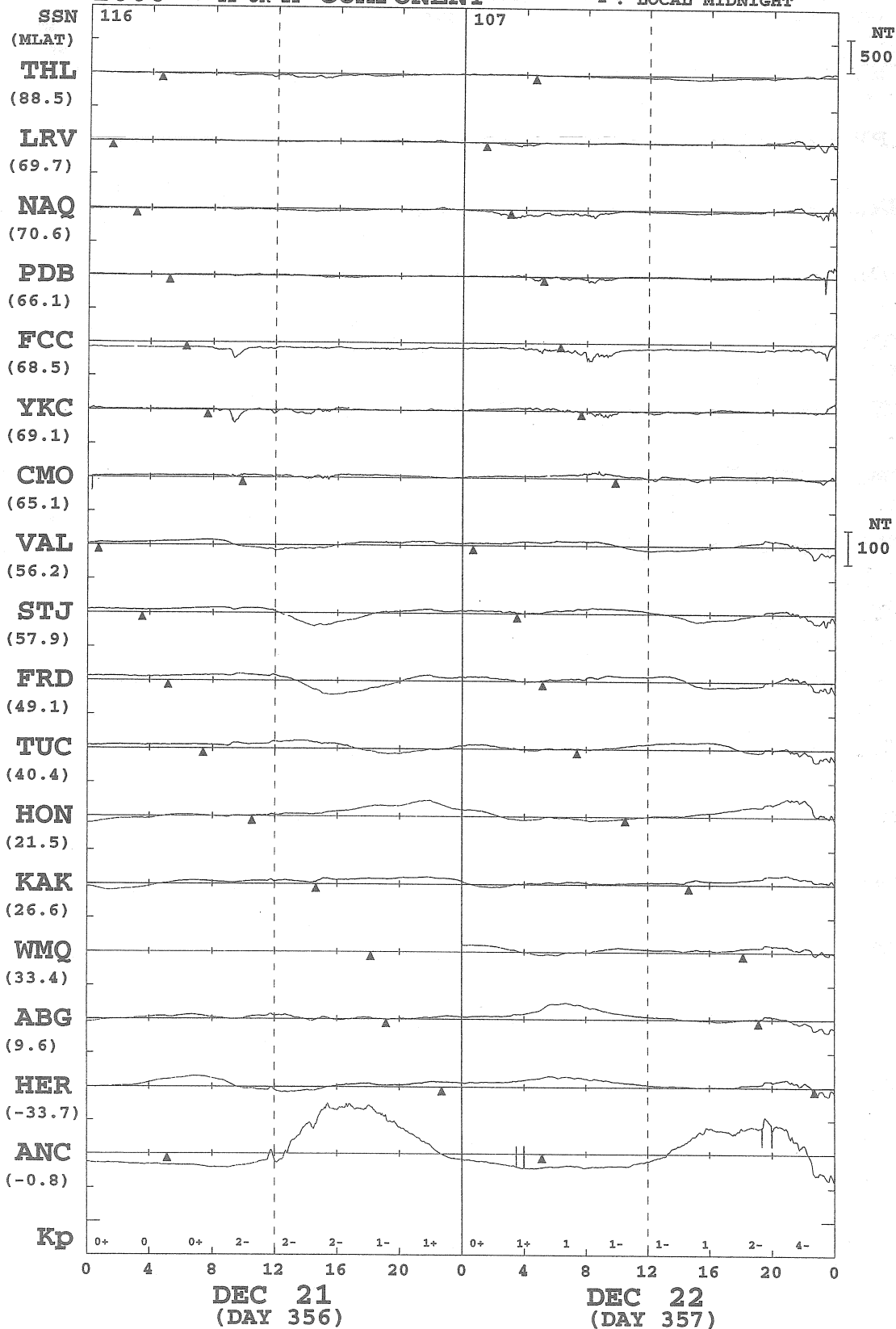


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KYOTO UNIV.

# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

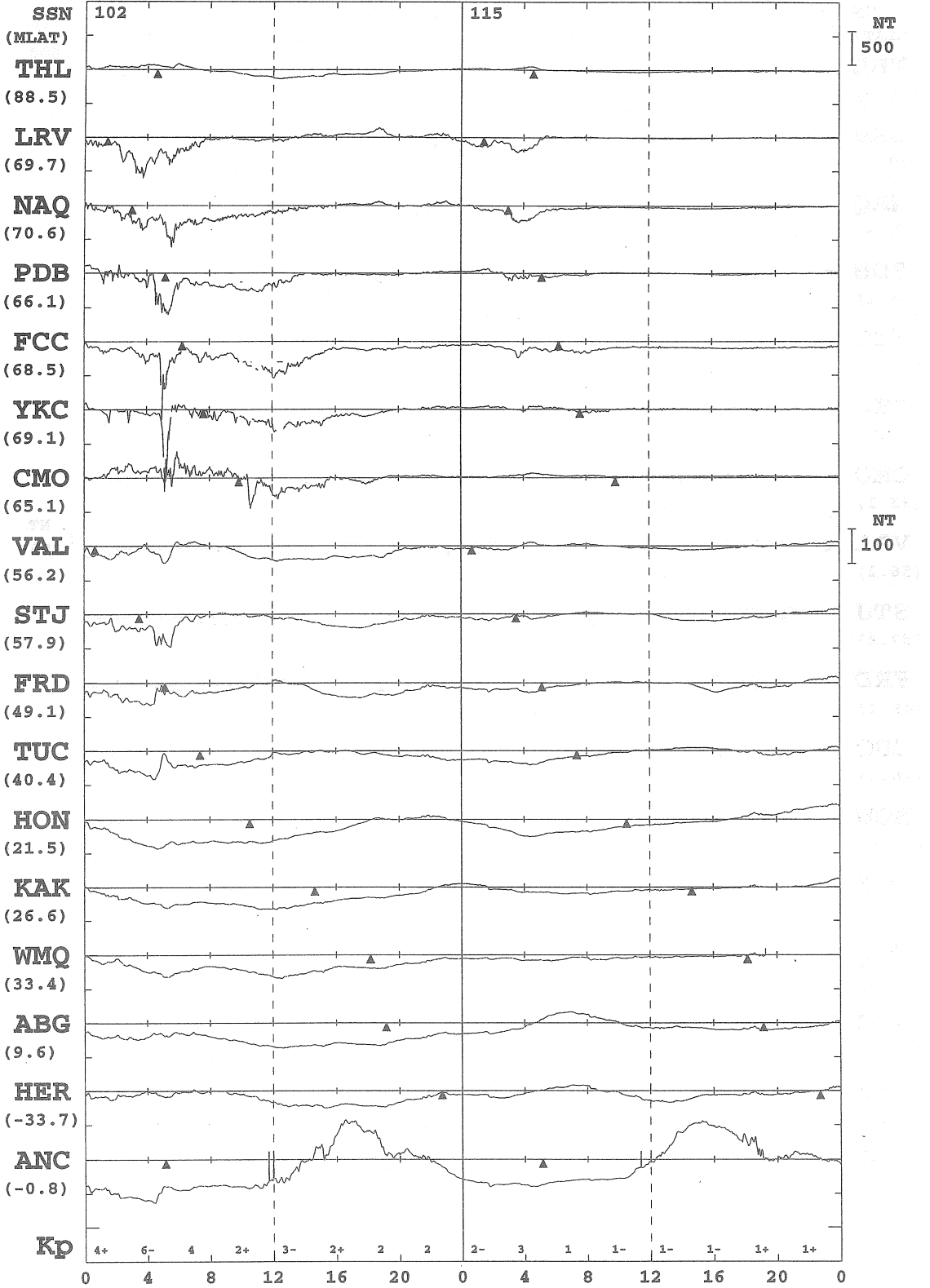


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KYOTO UNIV.

2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



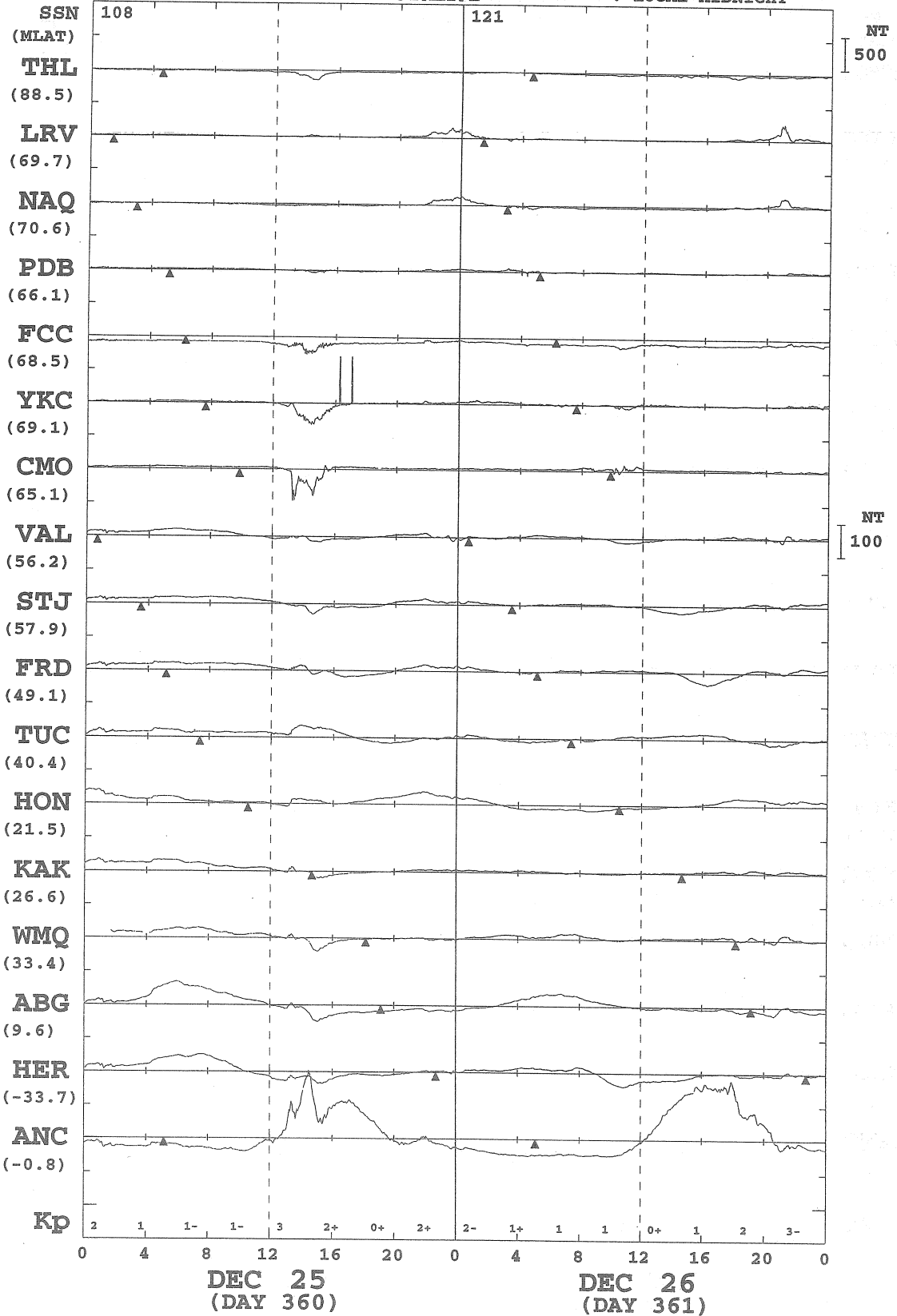
\* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED  
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KYOTO UNIV.



# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

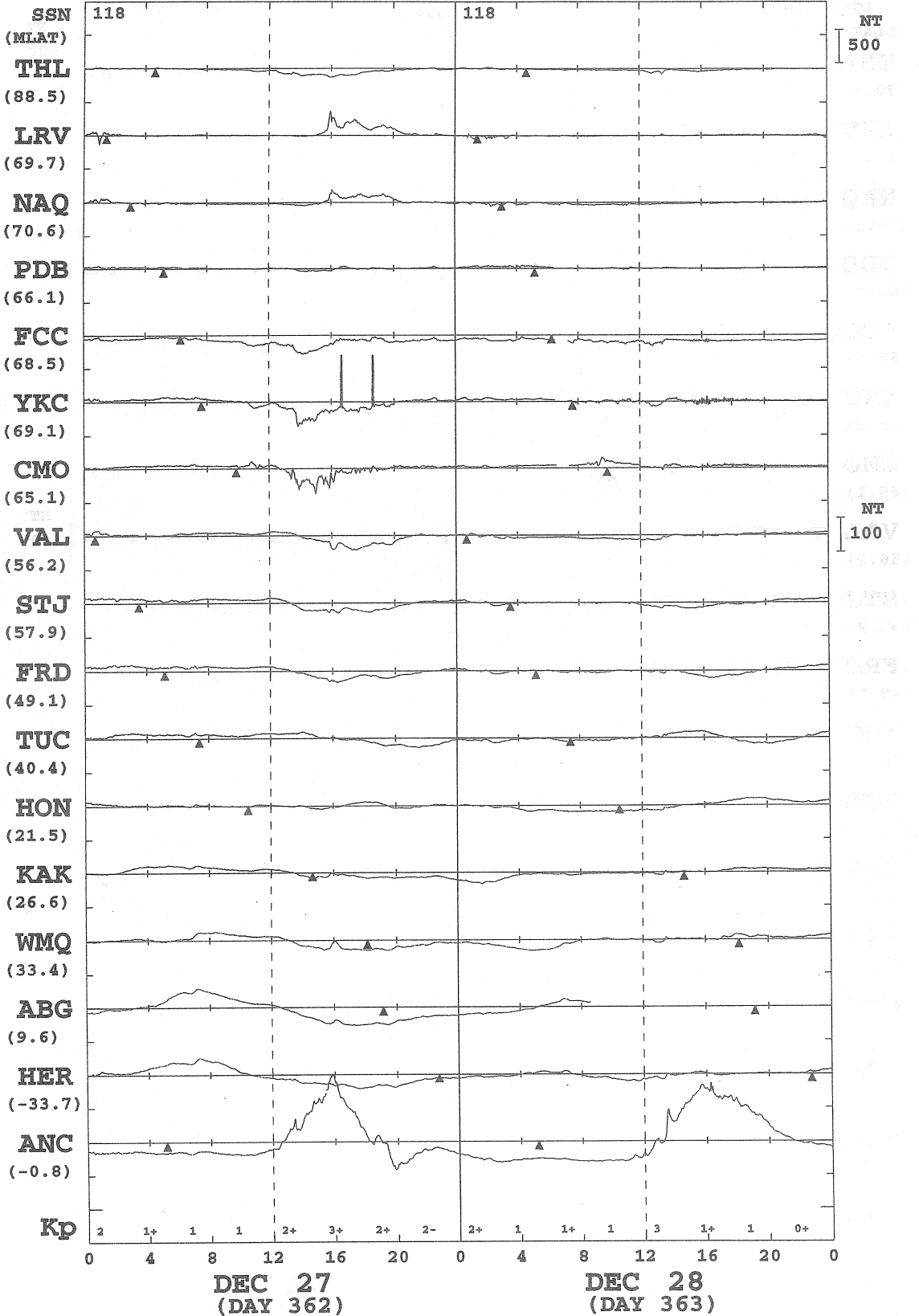


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KYOTO UNIV.

2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

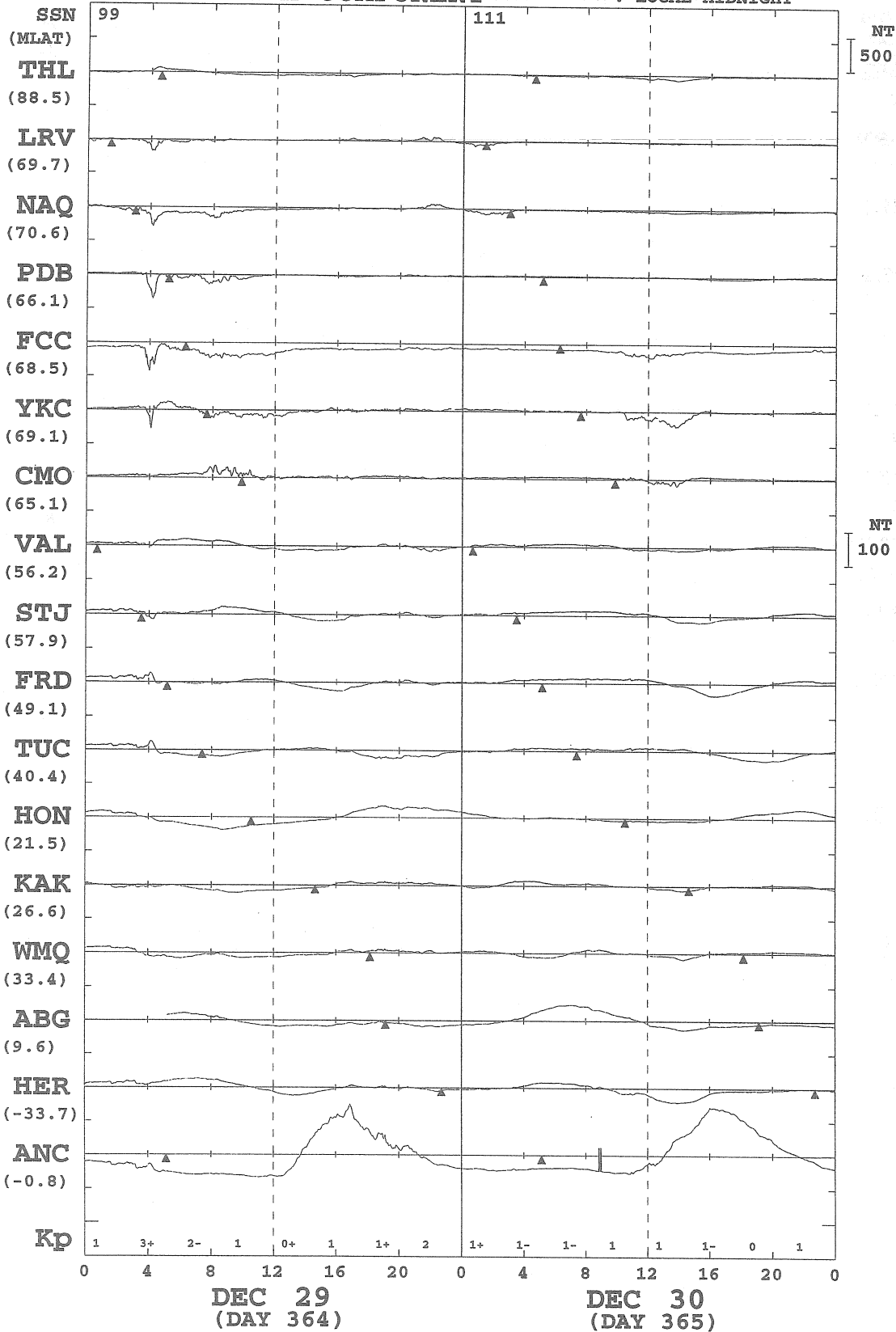


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KYOTO UNIV.

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▲ : LOCAL MIDNIGHT

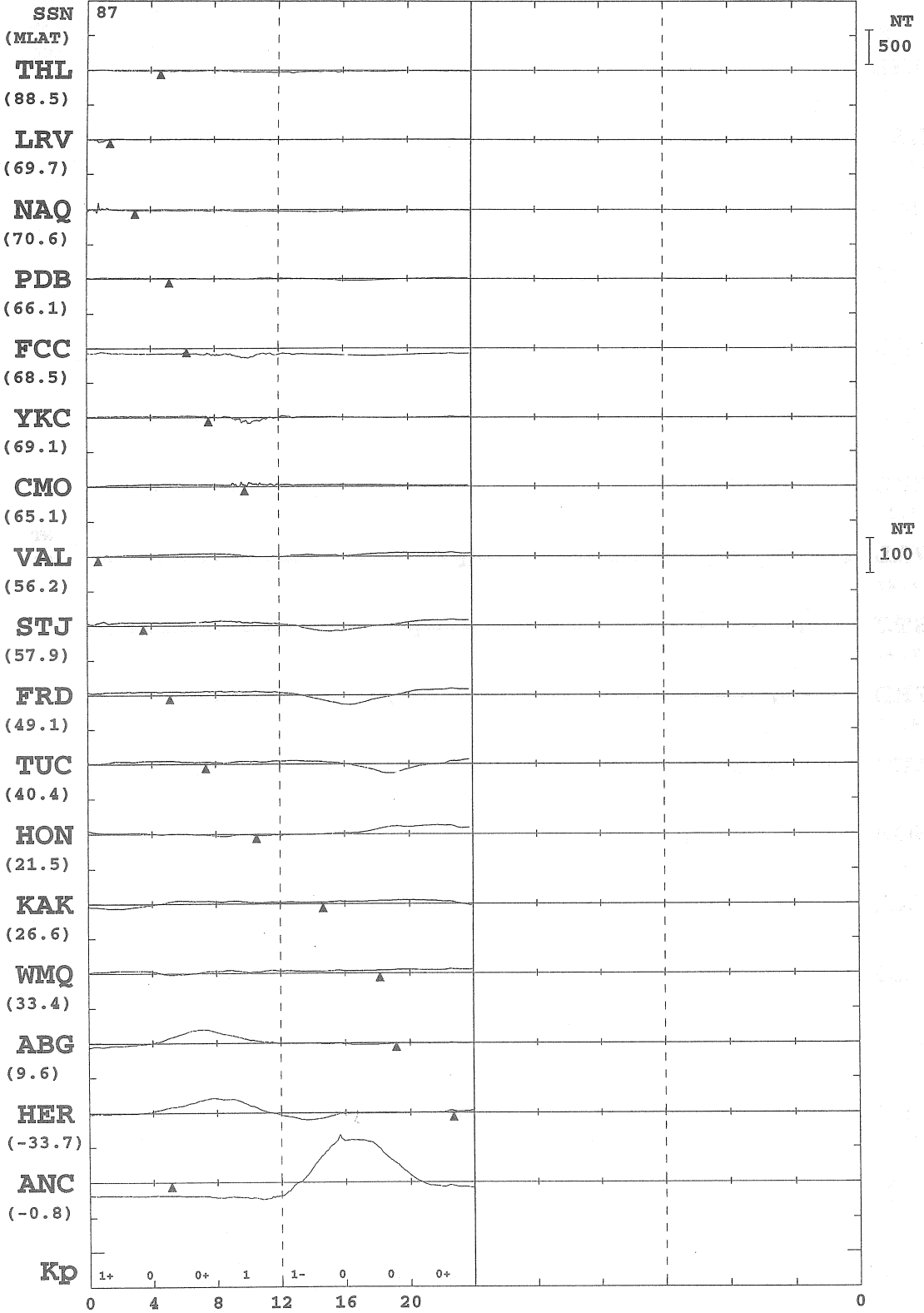


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# 2000 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



DEC 31  
 (DAY 366)

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