

PROVISIONAL GEOMAGNETIC
DATA PLOTS
NO.35

(January - June, 2007)

September 2007

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 January - June, 2007 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 Earthquake Administration and Xinjiang Province Seismological Bureau
- (14) Institute of Geophysics, China Earthquake Administration, and Yinchuan Geomagnetic Observatory

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,

<ftp://swdcftp.kugi.kyoto-u.ac.jp/data/pplot/>

Each file is compressed and has a name YYMMD1-D2.ps.gz (for example, 070517-18.ps.gz for May 17-18, 2007). Each file contains the plot of the each page of this booklet. Files should be transferred in binary mode and uncompressed.

For further information or the digital data, please contact

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://wdc.kugi.kyoto-u.ac.jp/>

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

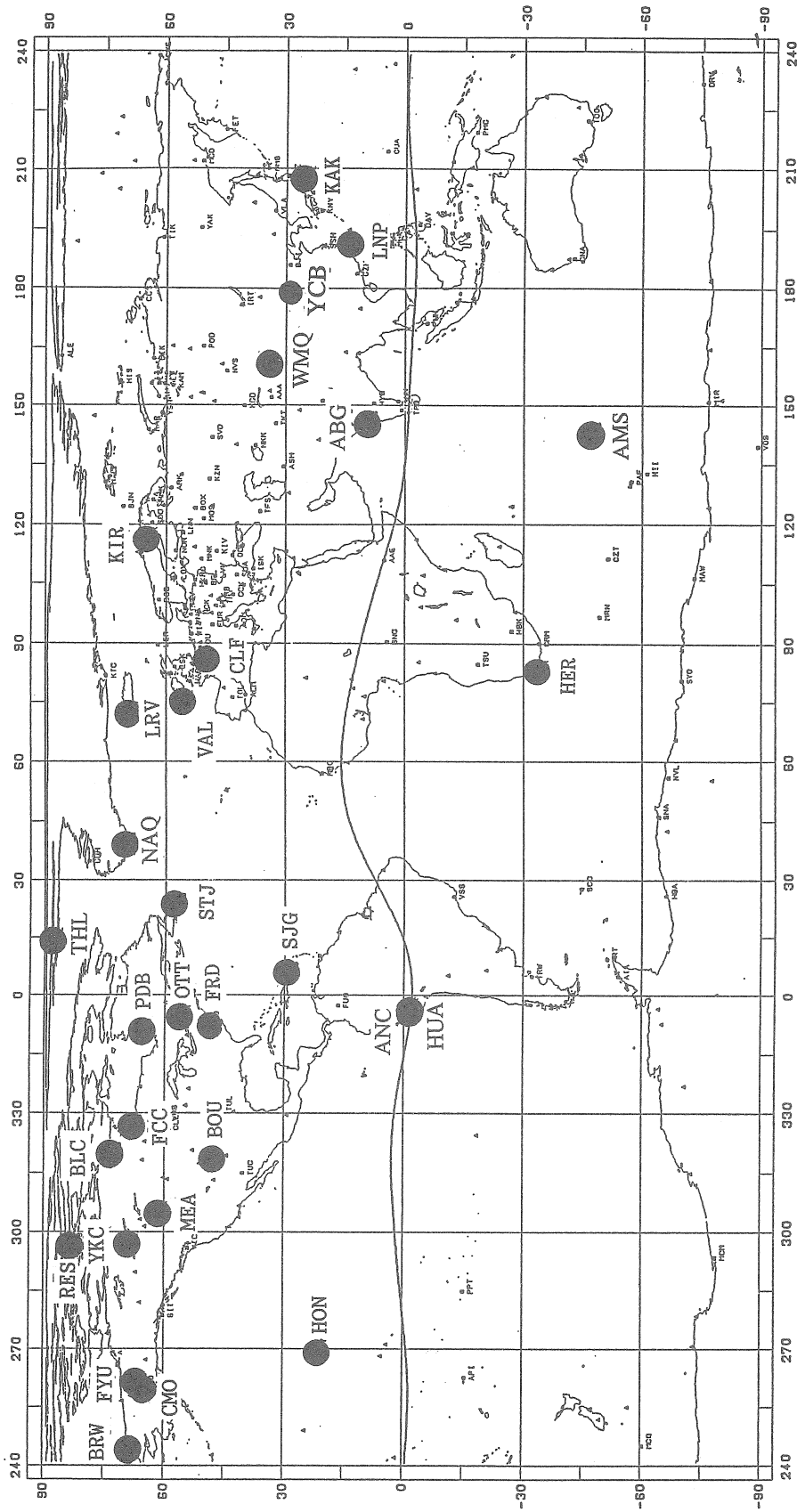
STATION NAME	ABB CODE	ORG No.	GEOGRAPHIC		GEOMAGNETIC		INVARIANT PLOT	
			LAT.	LONG.	LAT.	LONG.	LAT.	SCALE
*Tule	THL	9	76.6	291.2	87.2	12.4	85.9	500nT/div
*Resolute Bay	RES	1	74.7	265.1	83.1	296.0	83.9	"
*Baker Lake	BLC	1	64.3	264.0	73.7	319.2	74.6	"
*Narssarssuaq	NAQ	9	61.2	314.6	70.6	38.7	67.5	"
Leirvogur	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	"
*Yinchuan	YCB	14	38.5	106.3	28.5	178.1	29.0	"
*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 17403008, 188071 and 198053 under the Japan Society for Promotion of science (JSPS).

DISTRIBUTION OF GEOMAGNETIC OBSERVATORIES



GEOMAGNETIC COORDINATE (1985.0)

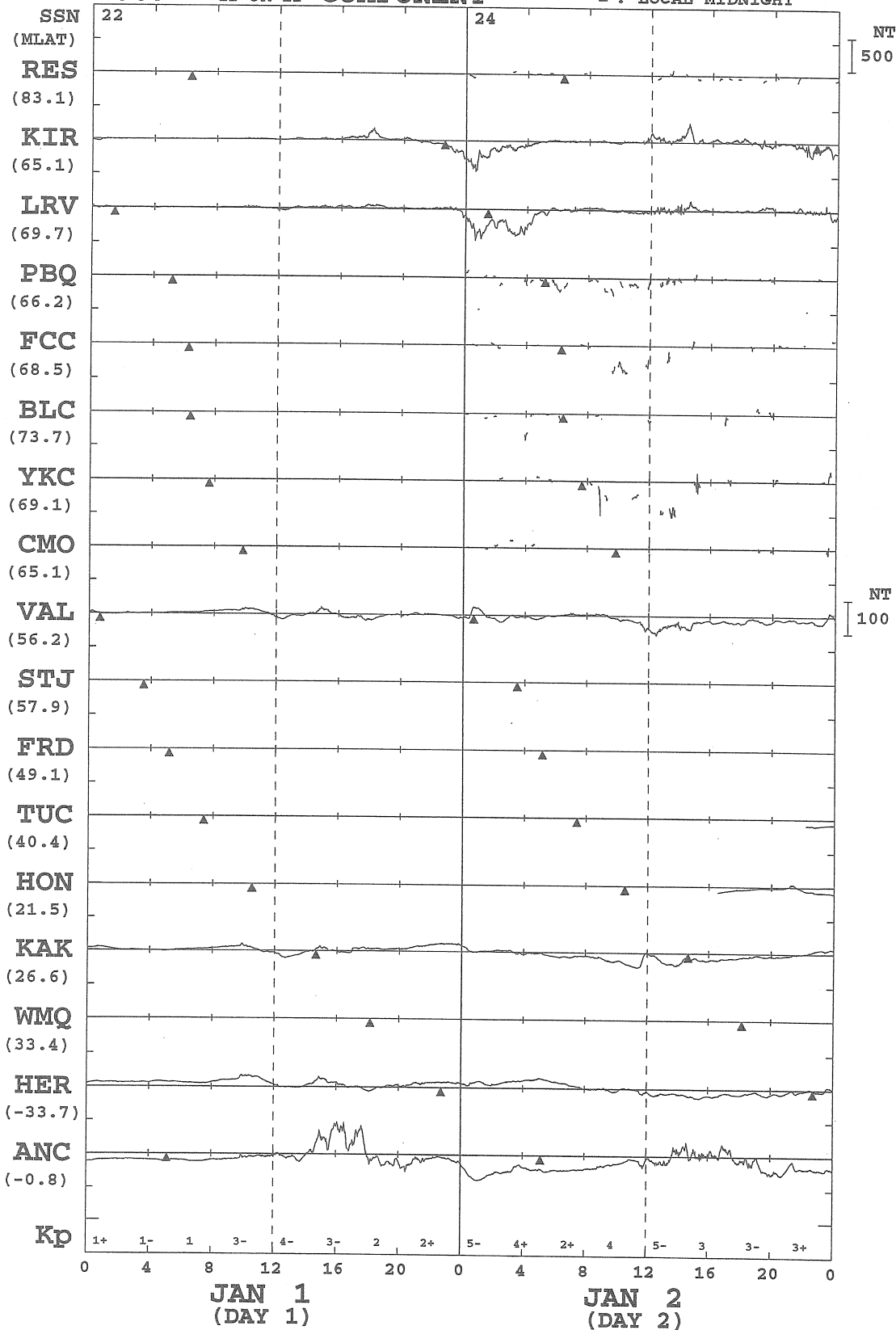
—— DIP EQUATOR AT 100 KM ALTITUDE

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.

January - June, 2007

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

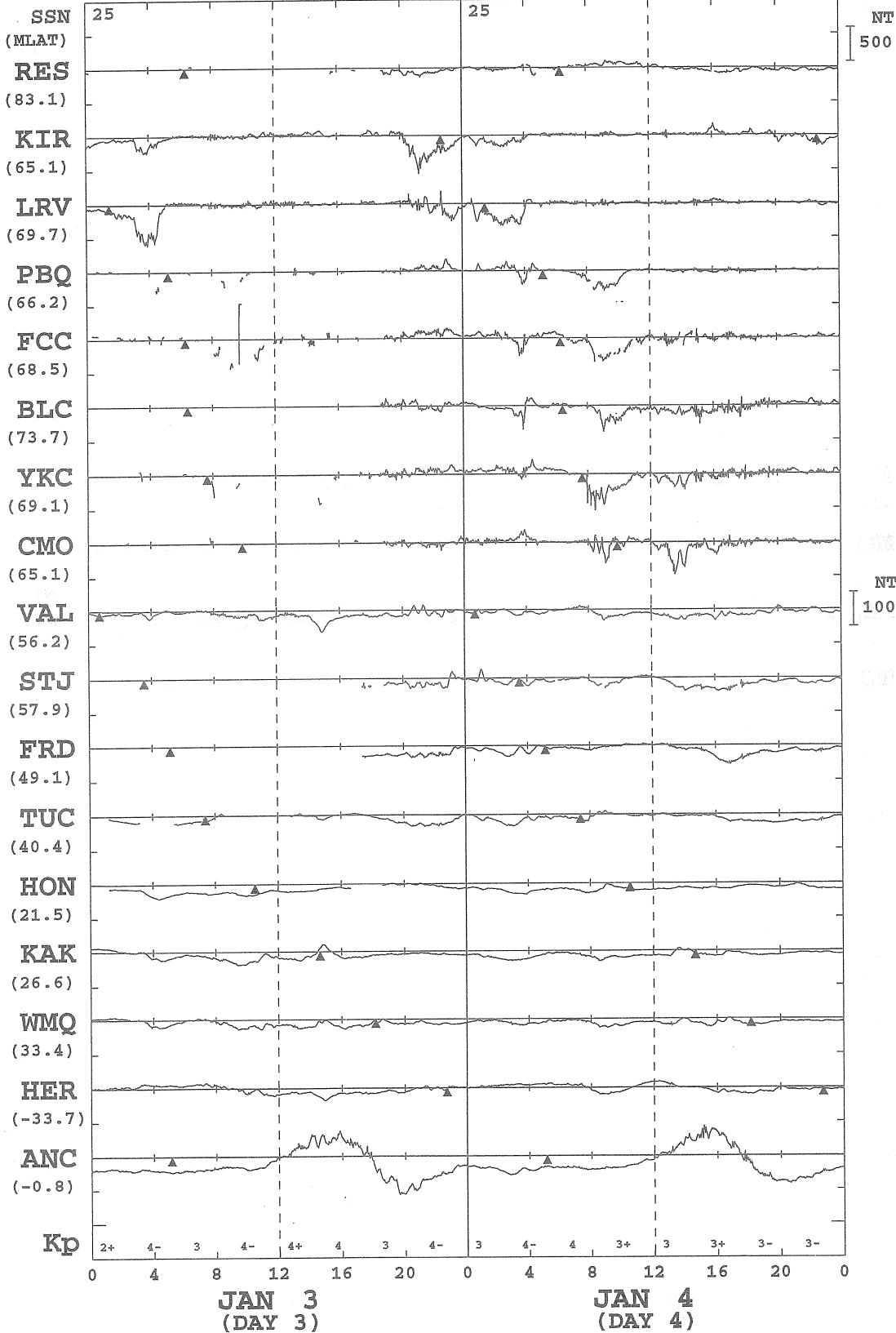


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

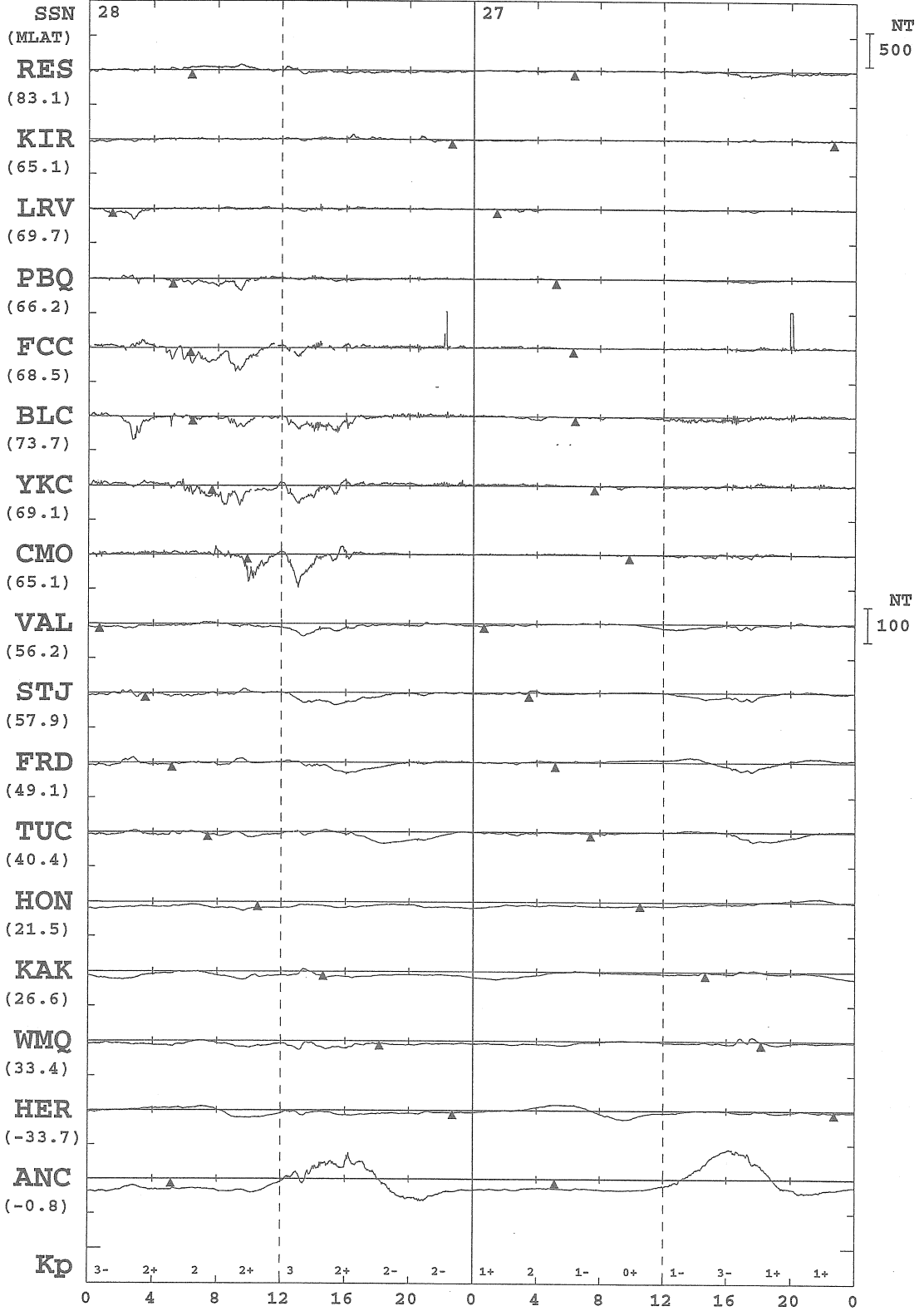


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

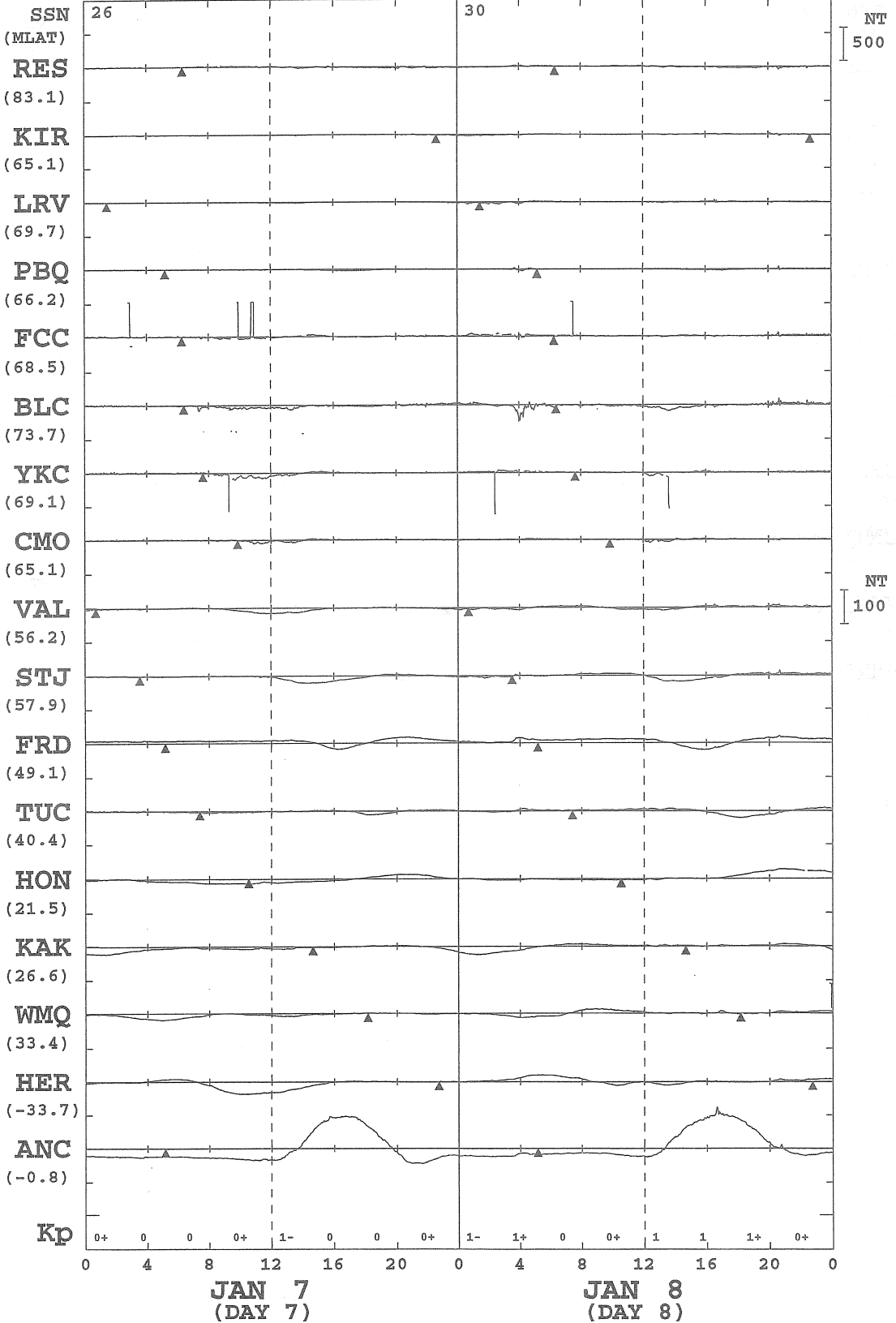


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

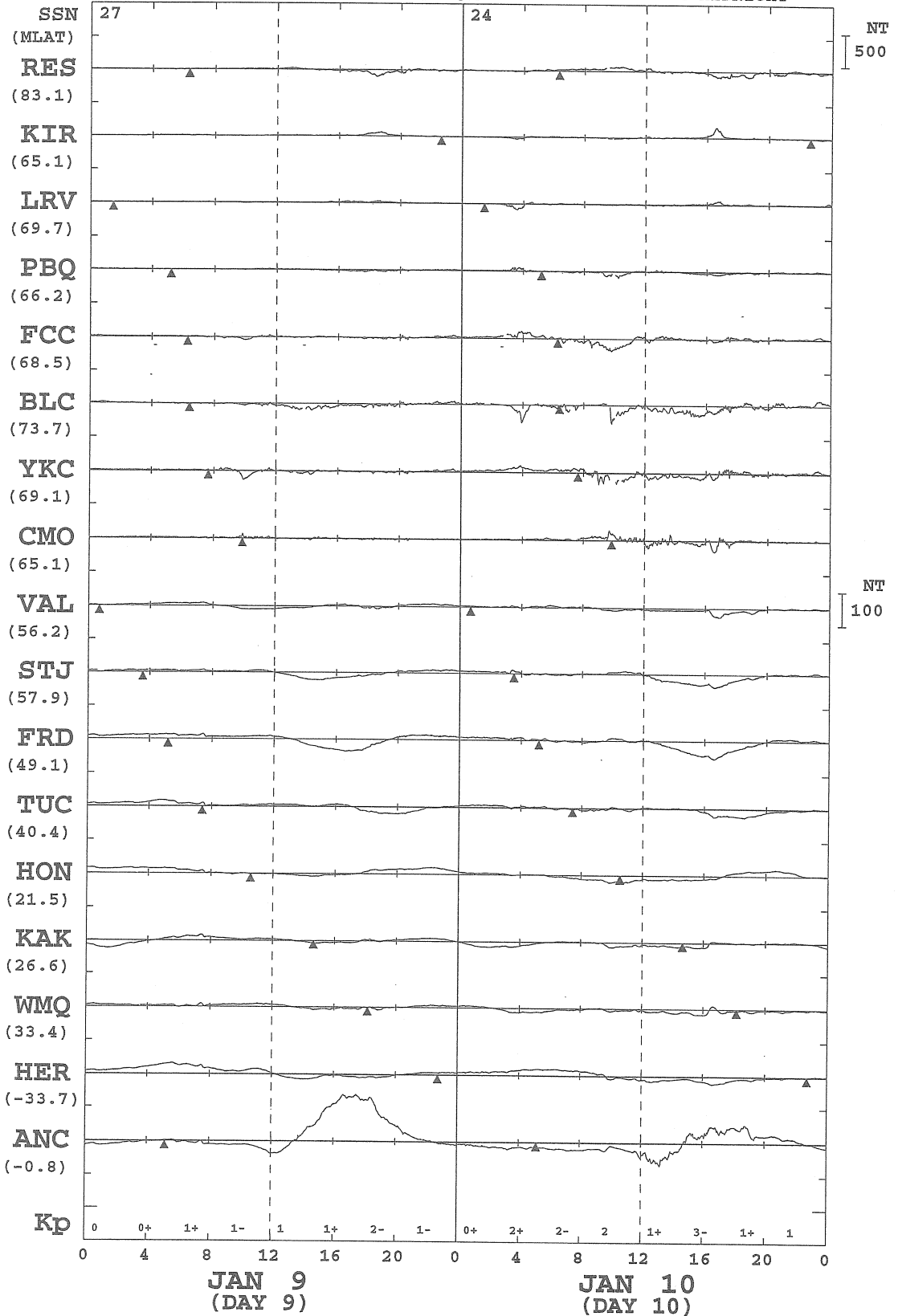


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

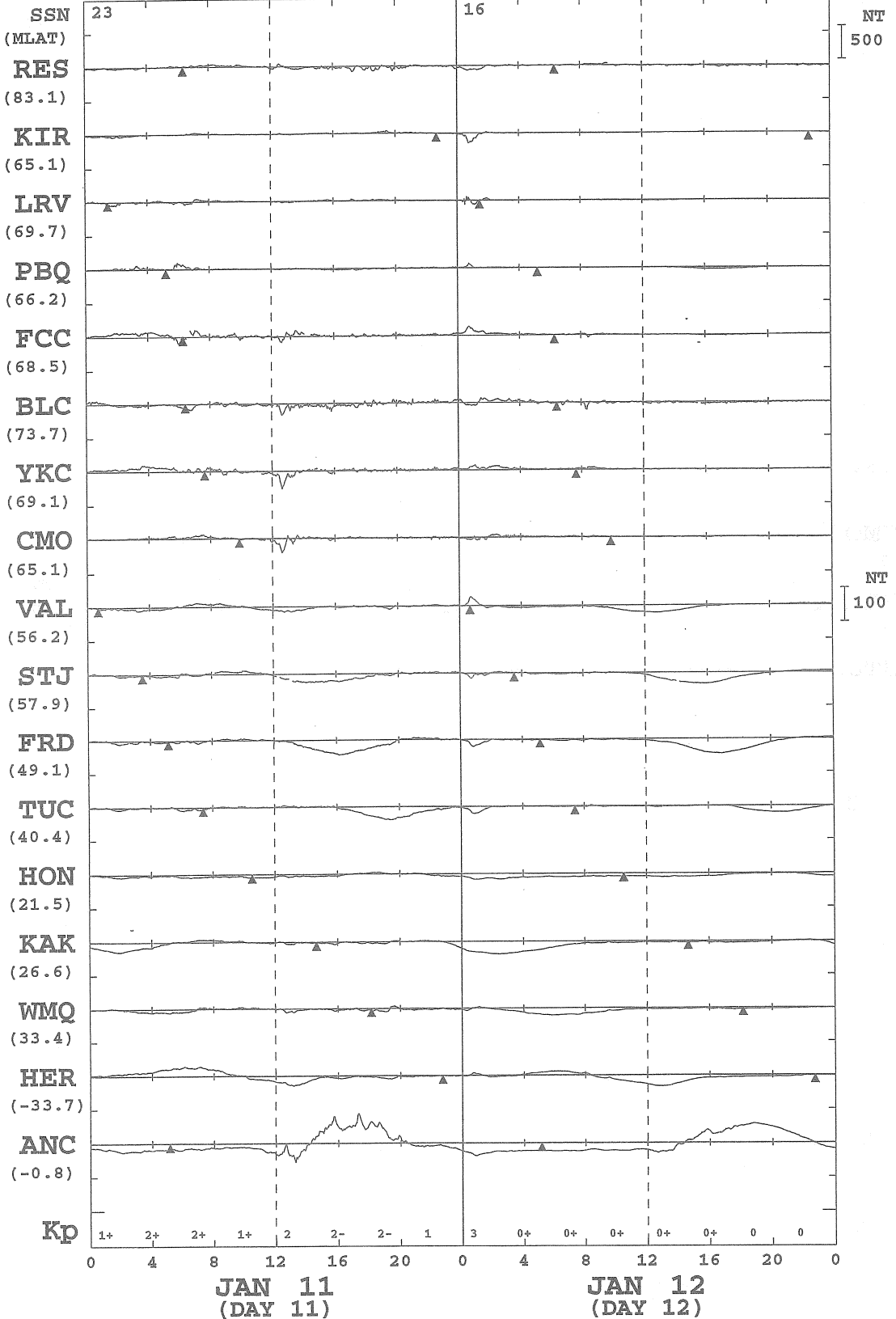


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

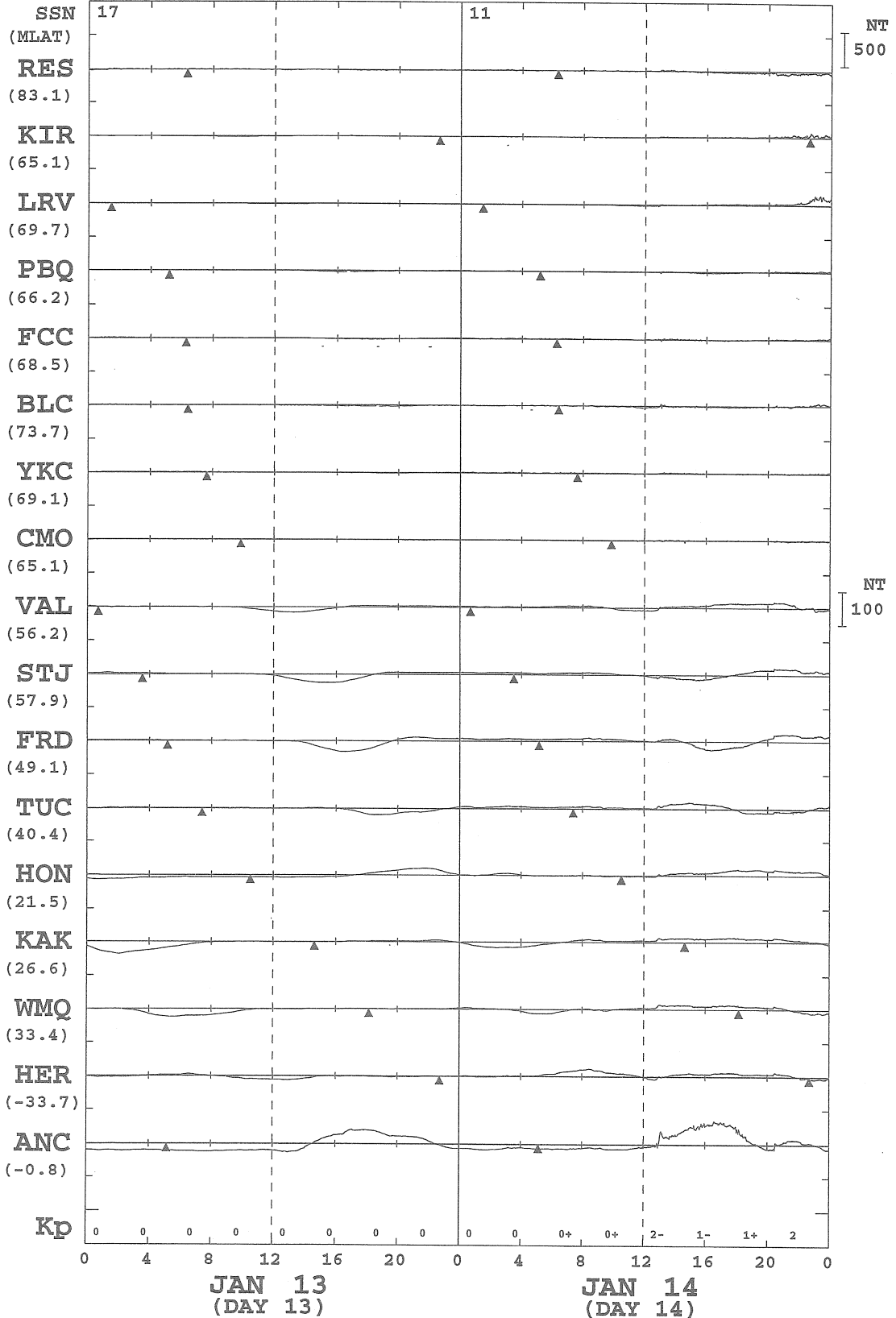


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

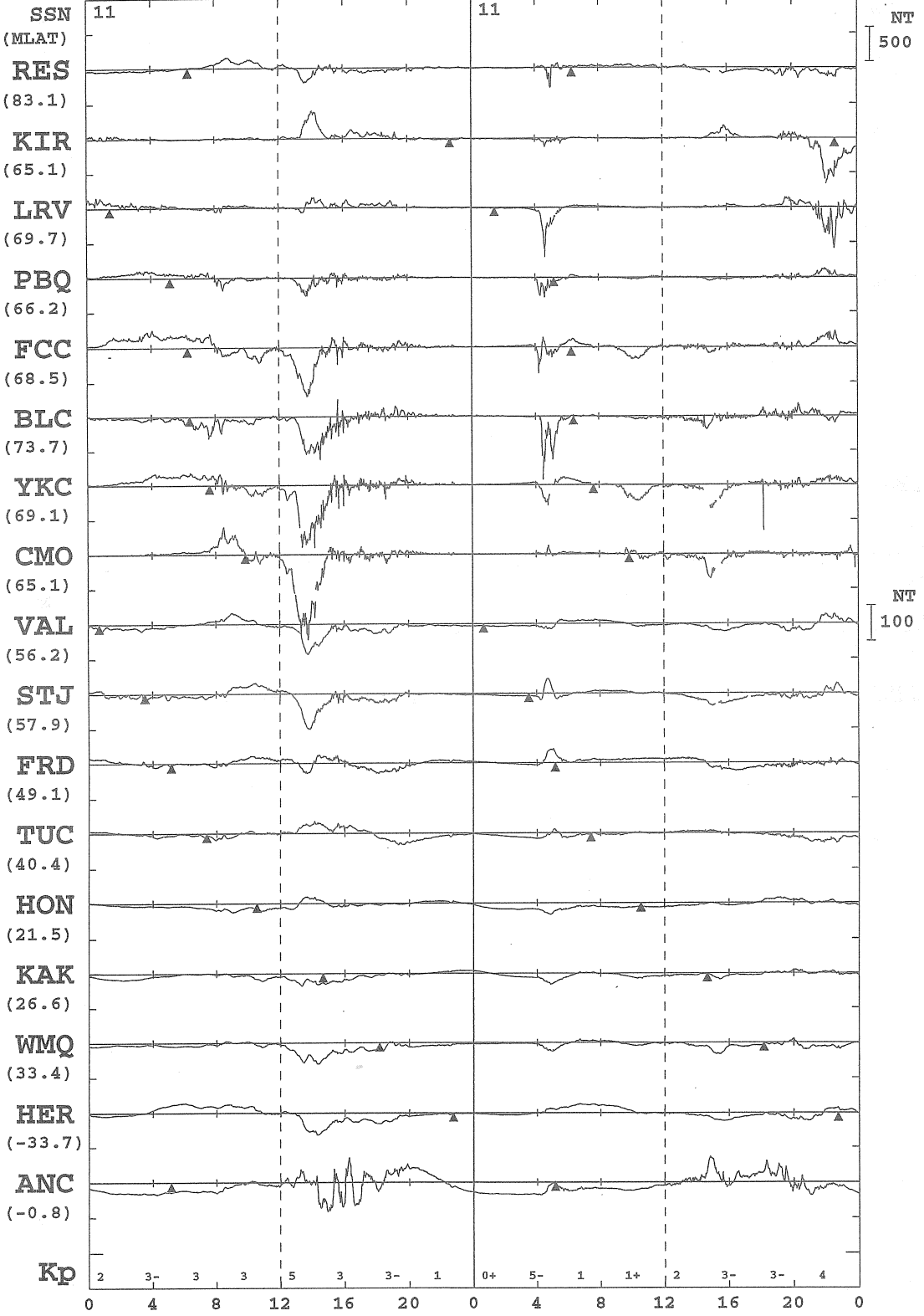


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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

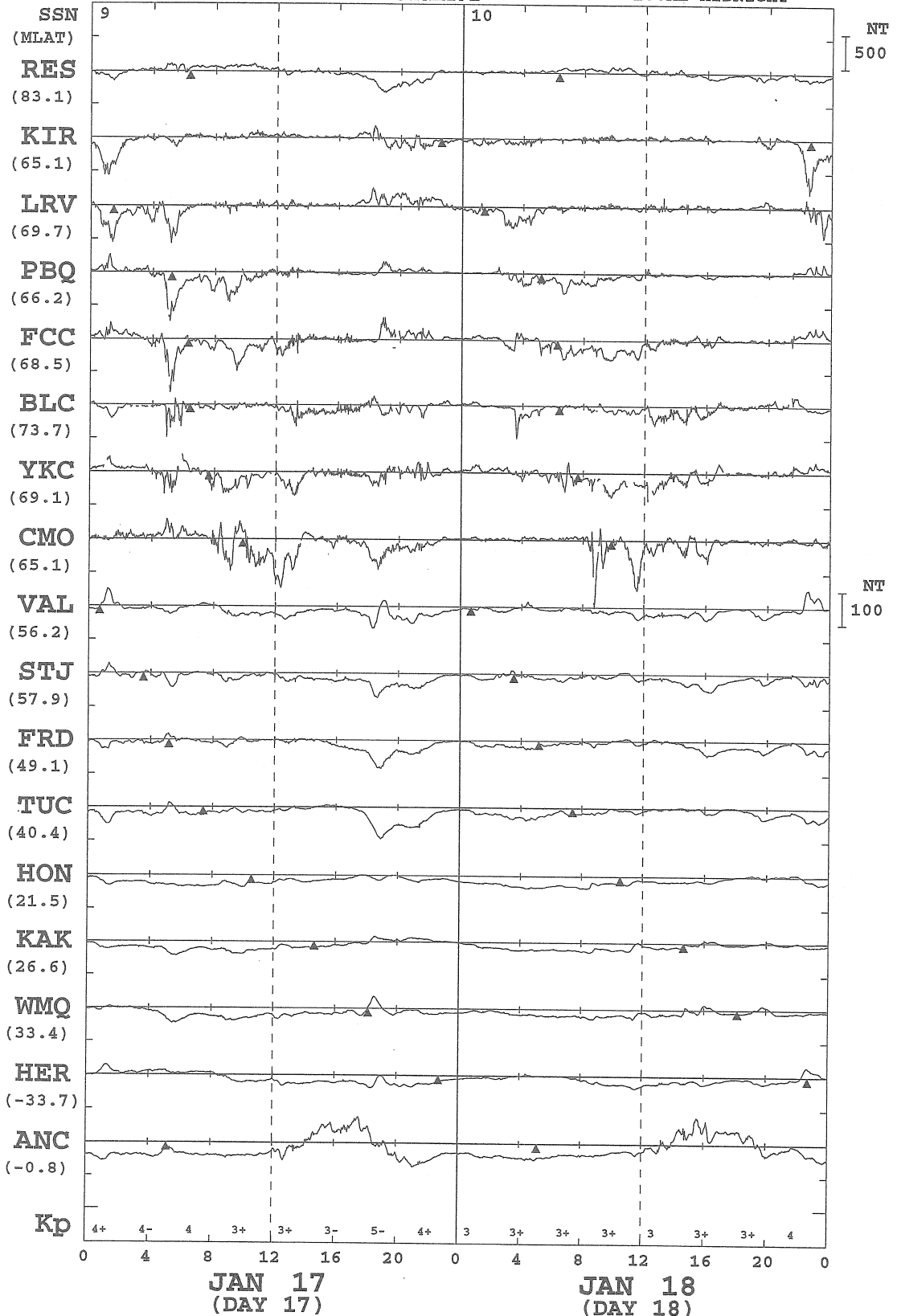


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

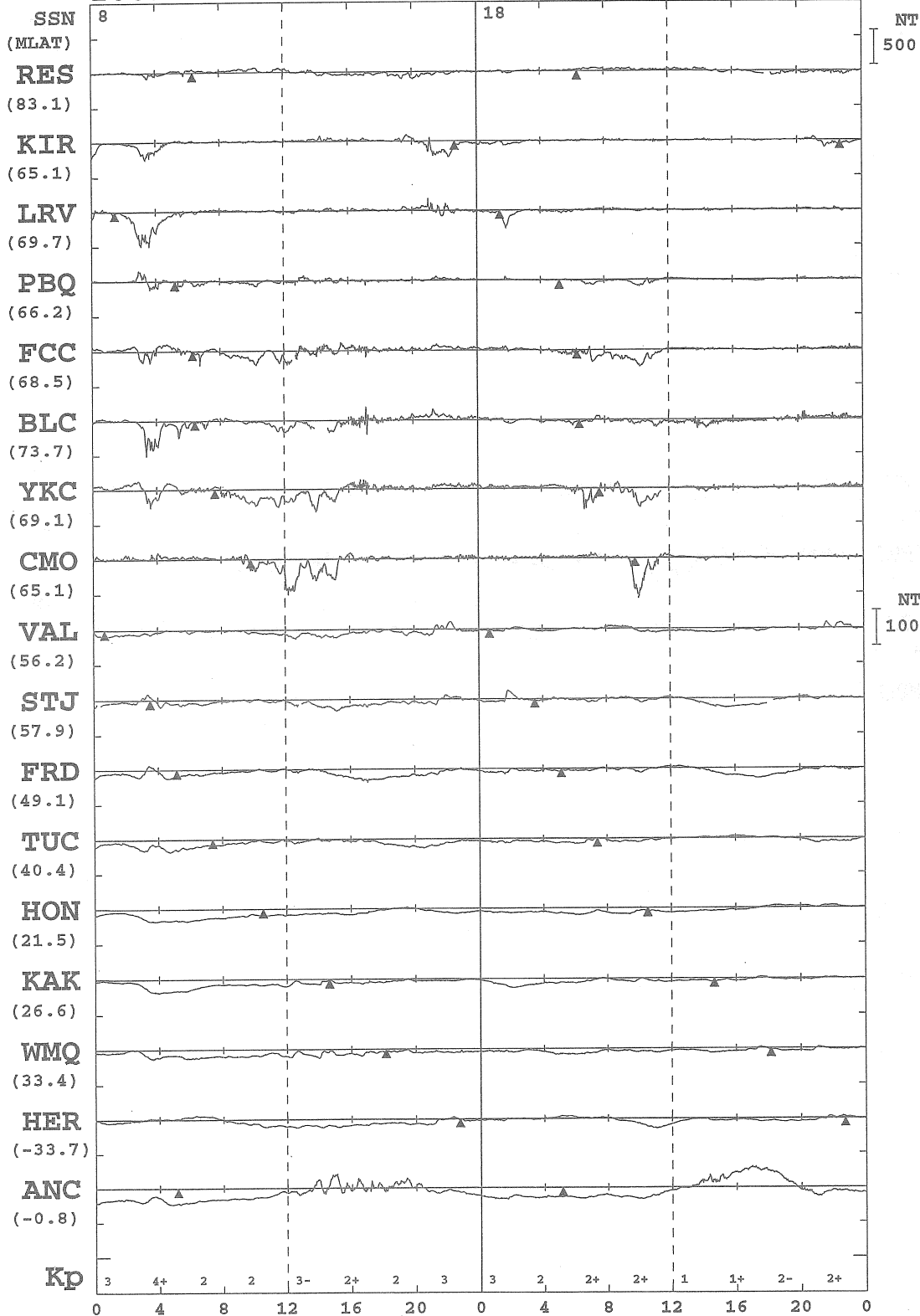


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

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2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



JAN 19
(DAY 19)

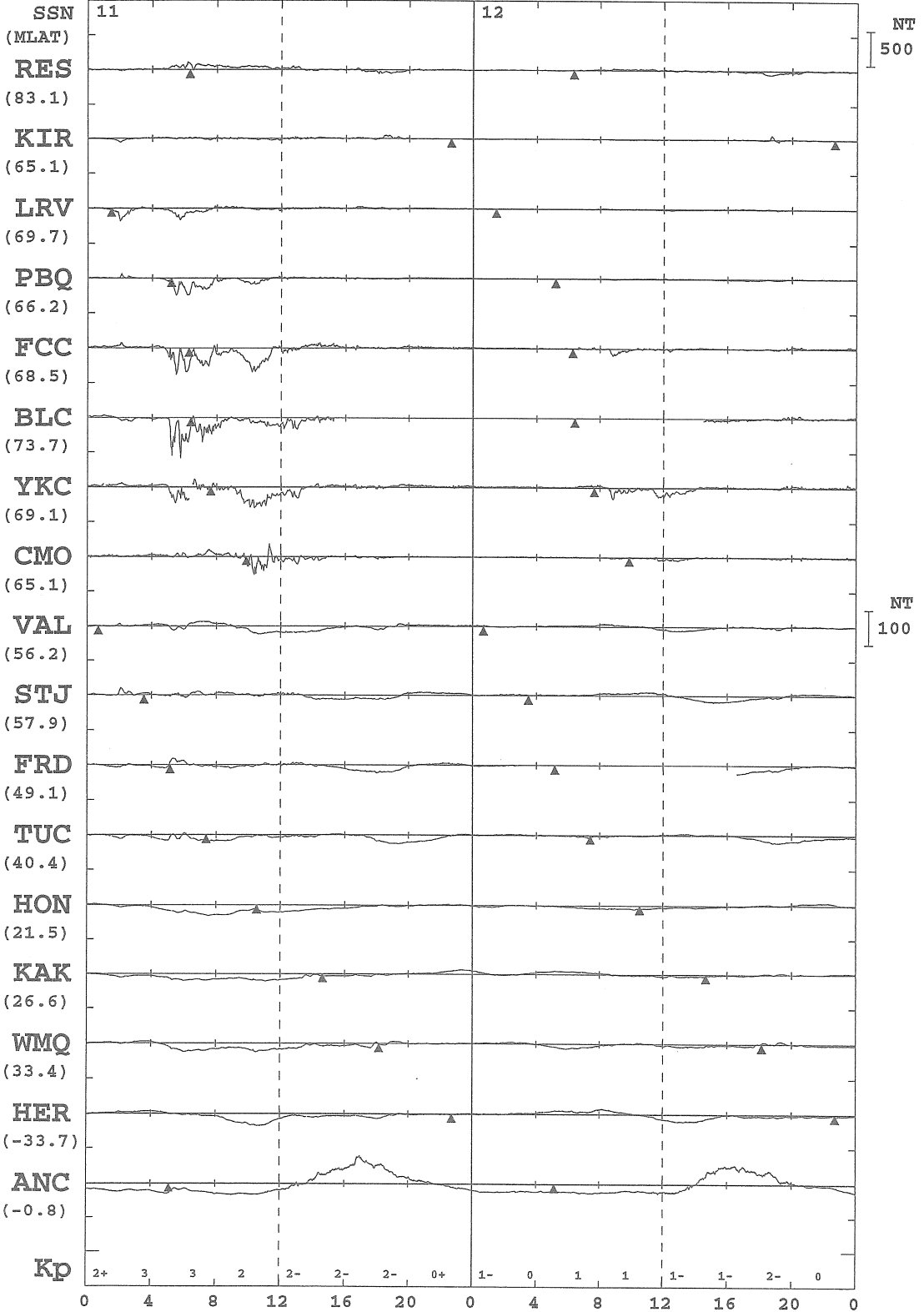
JAN 20
(DAY 20)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

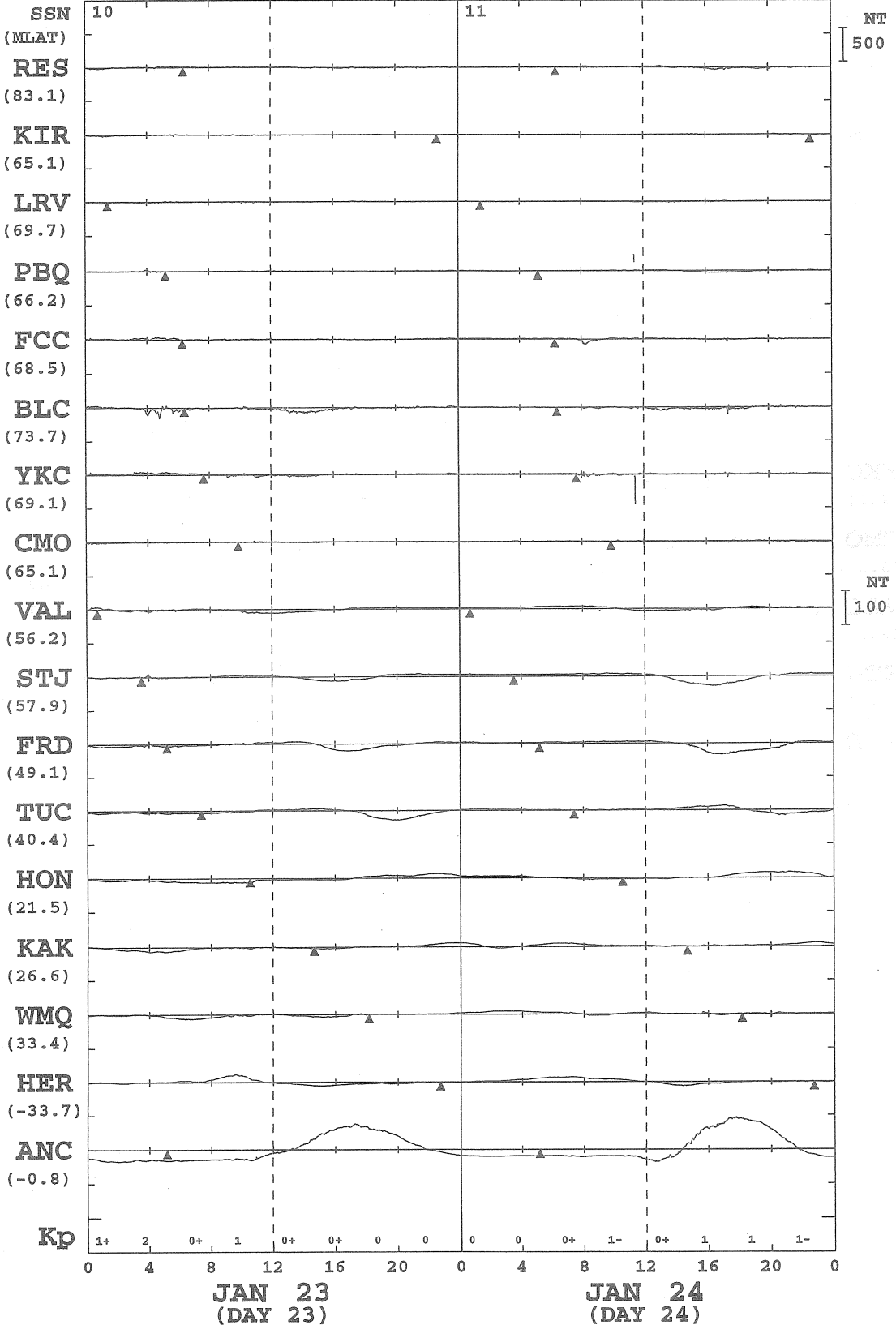


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

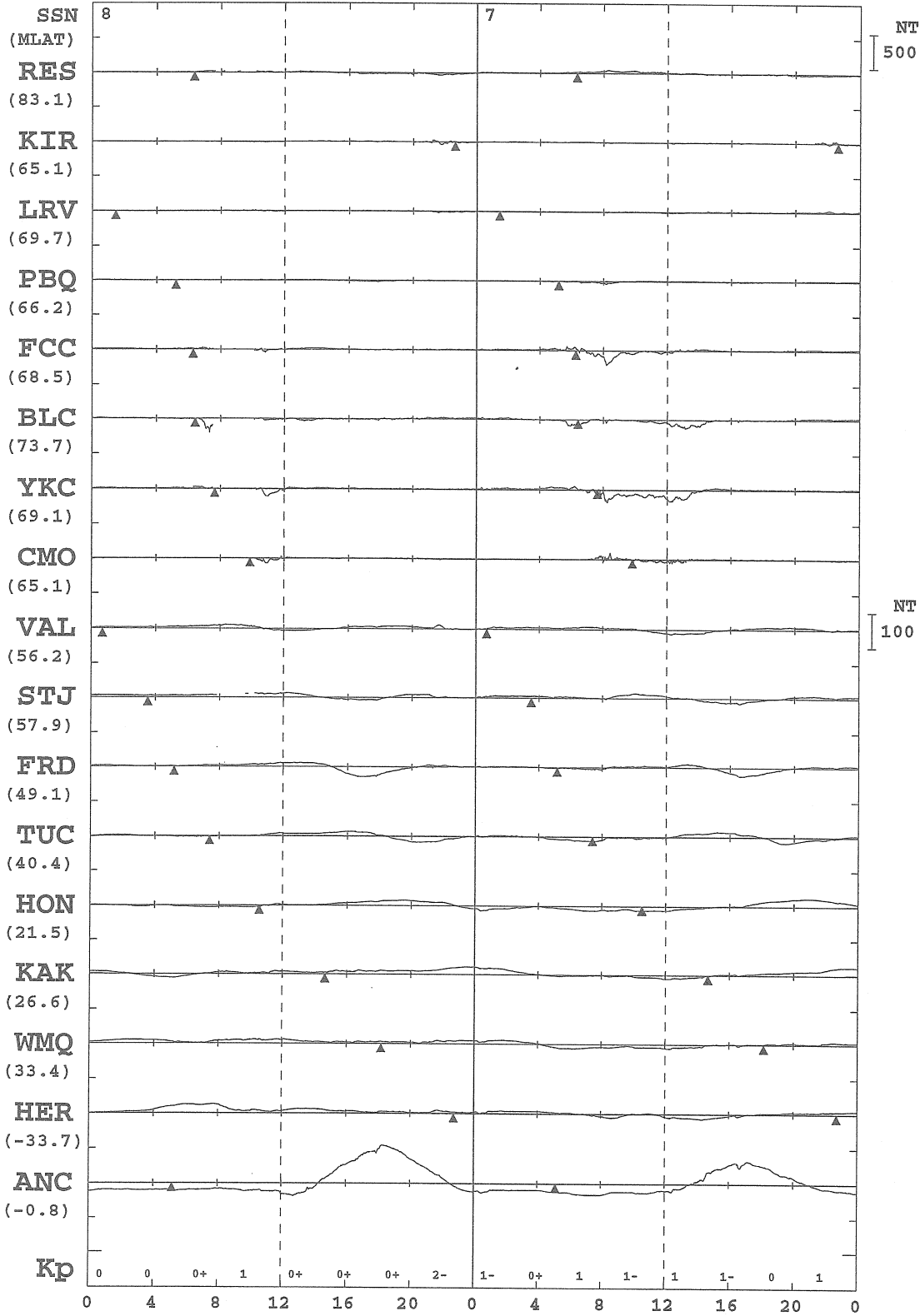


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

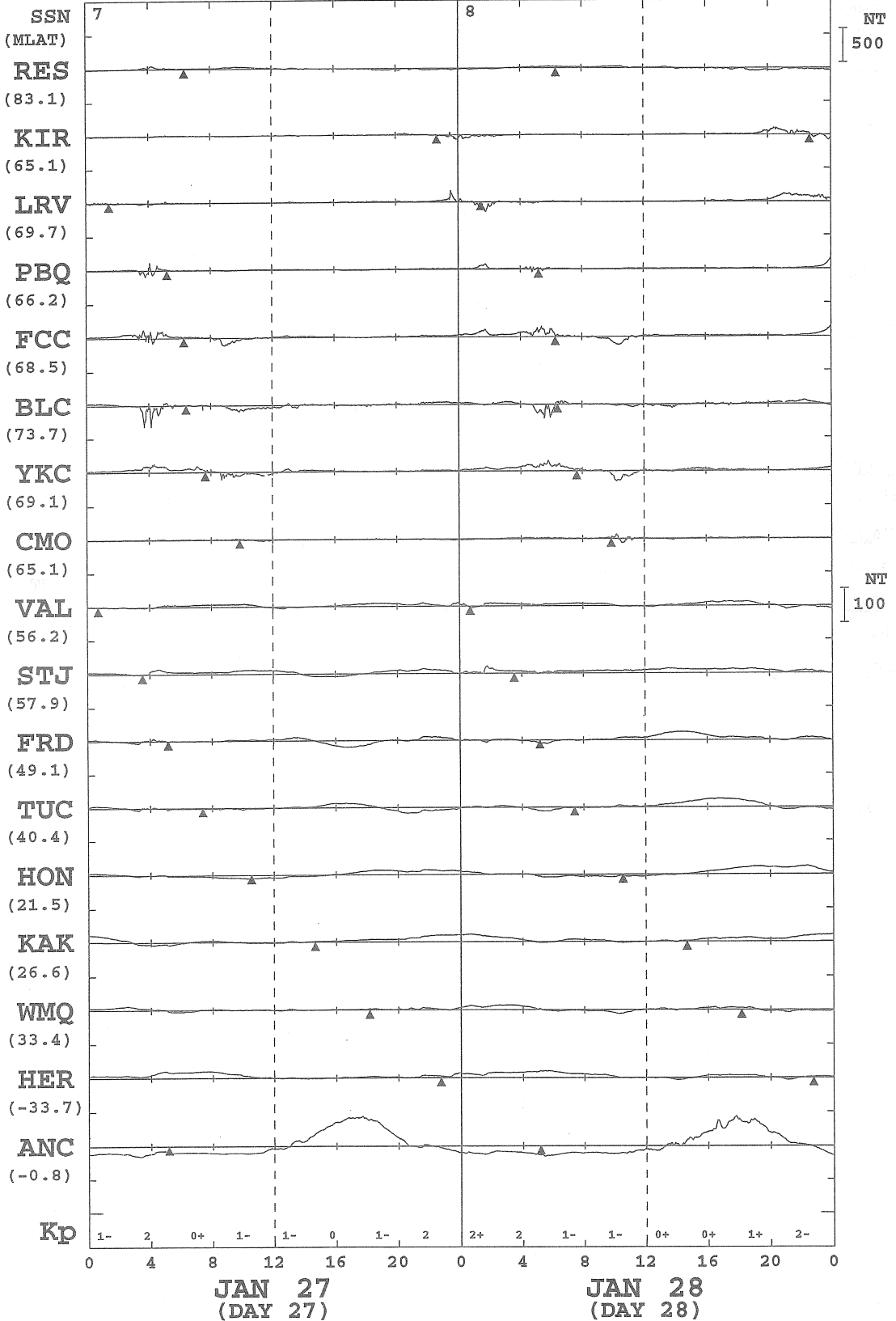


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

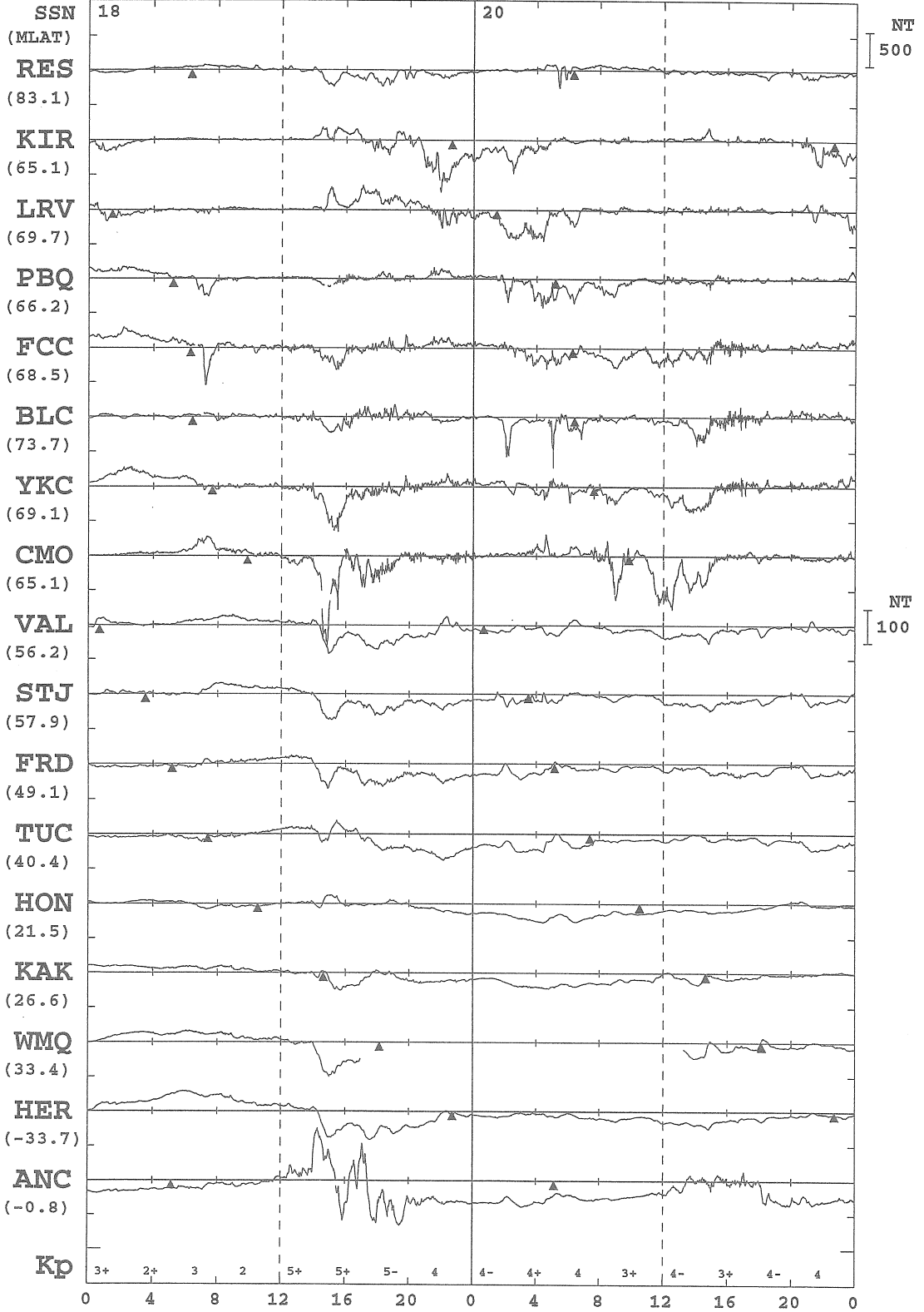


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

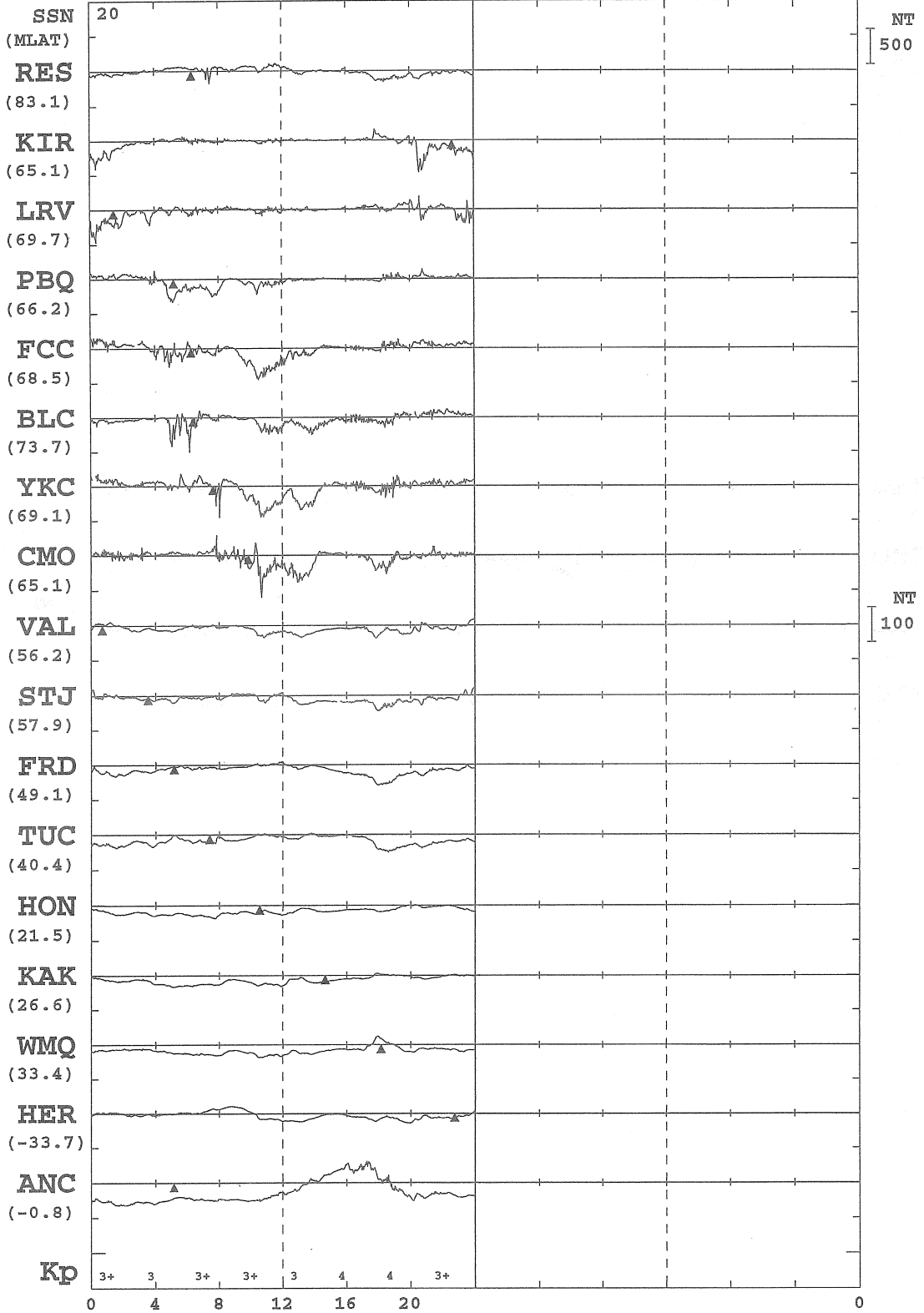


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



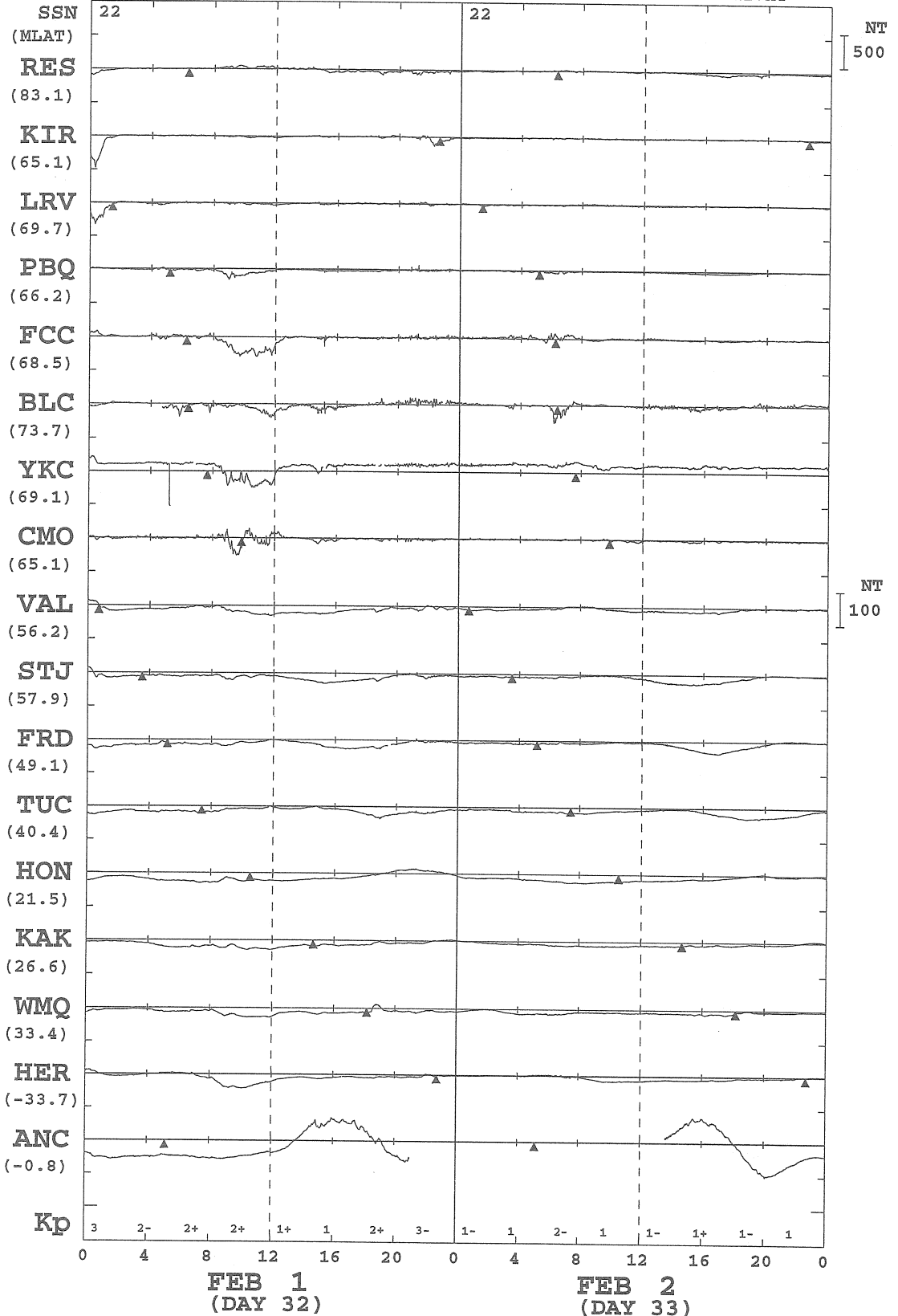
JAN 31
(DAY 31)

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

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

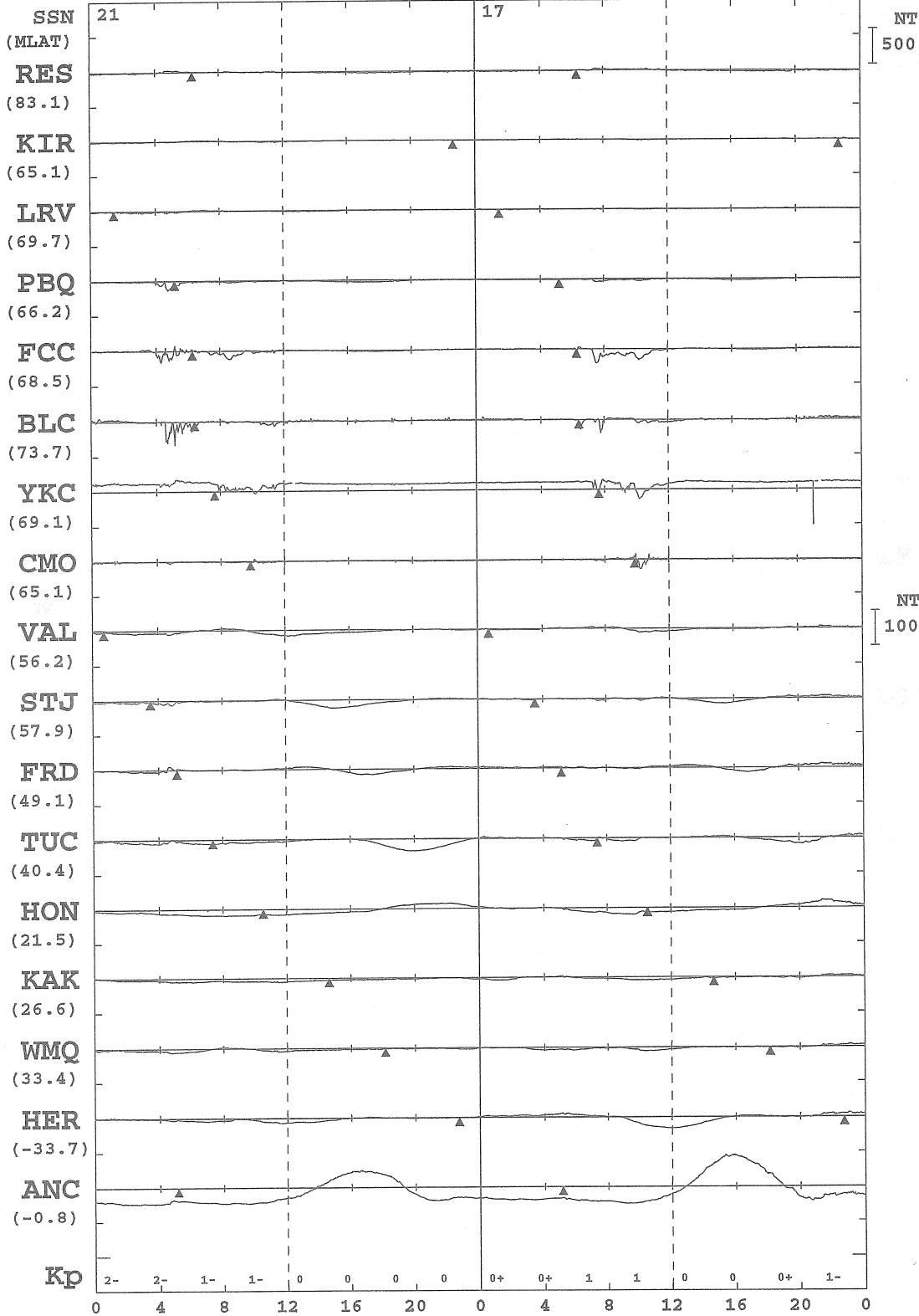


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



FEB 3
(DAY 34)

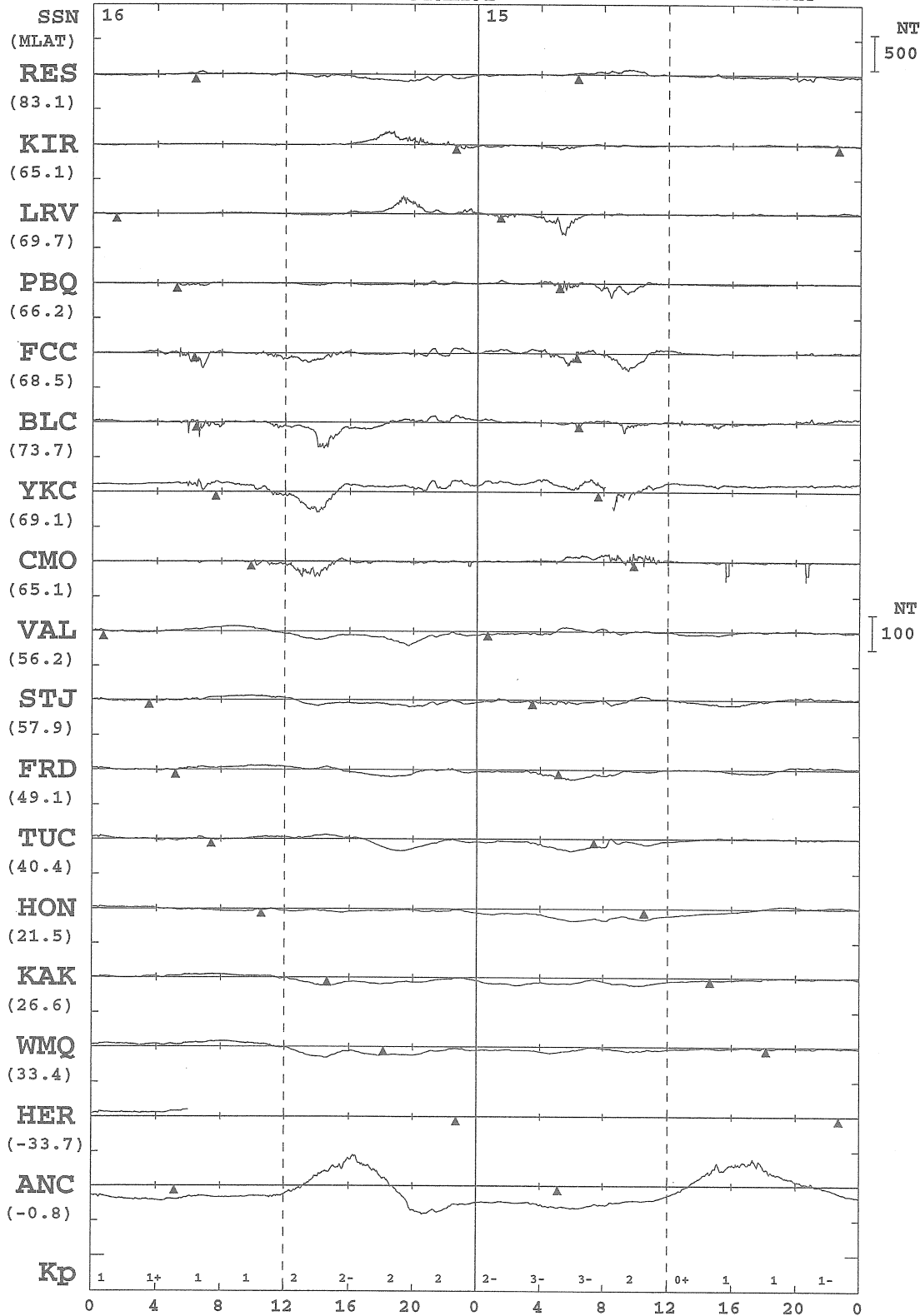
FEB 4
(DAY 35)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

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2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

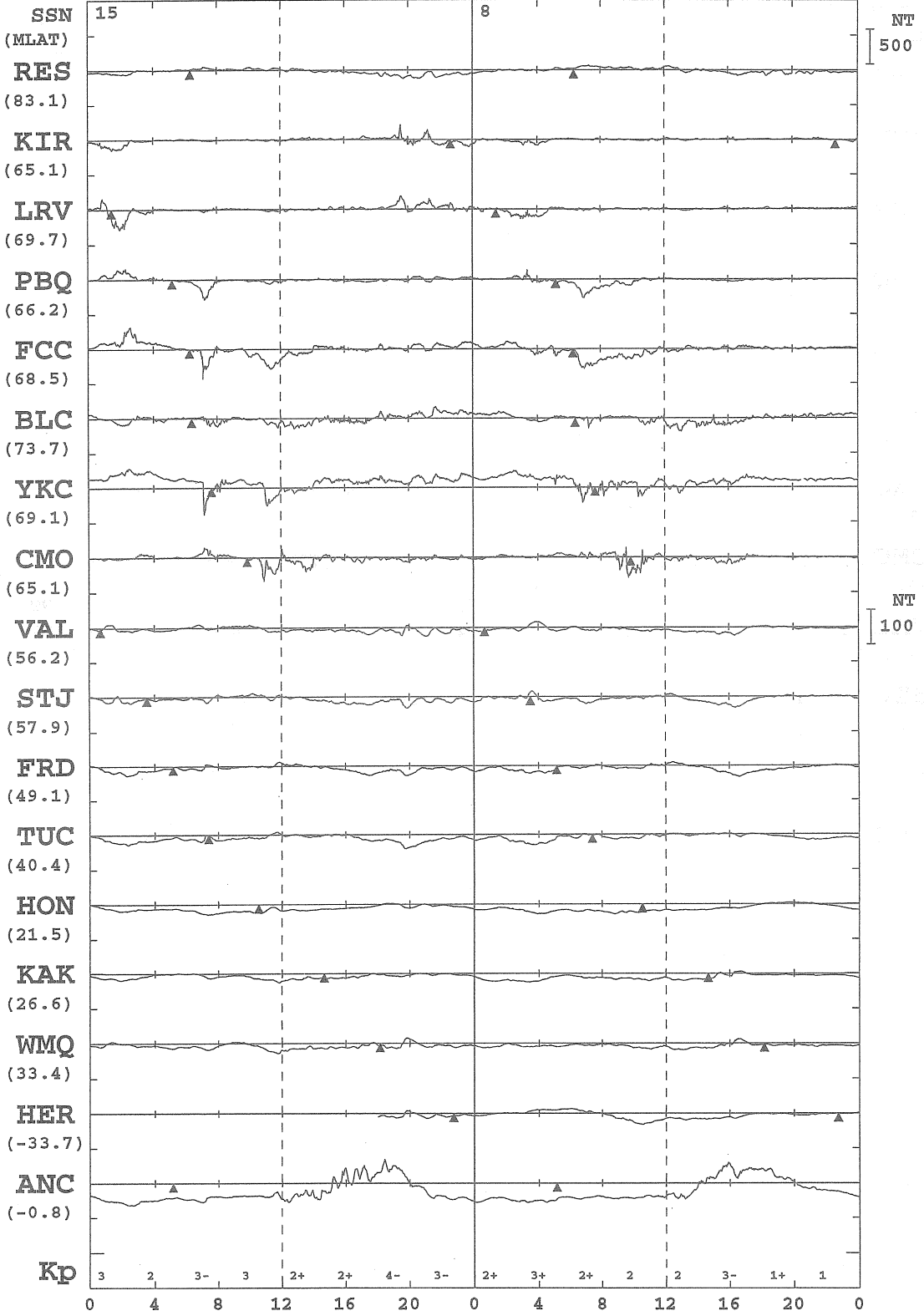


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

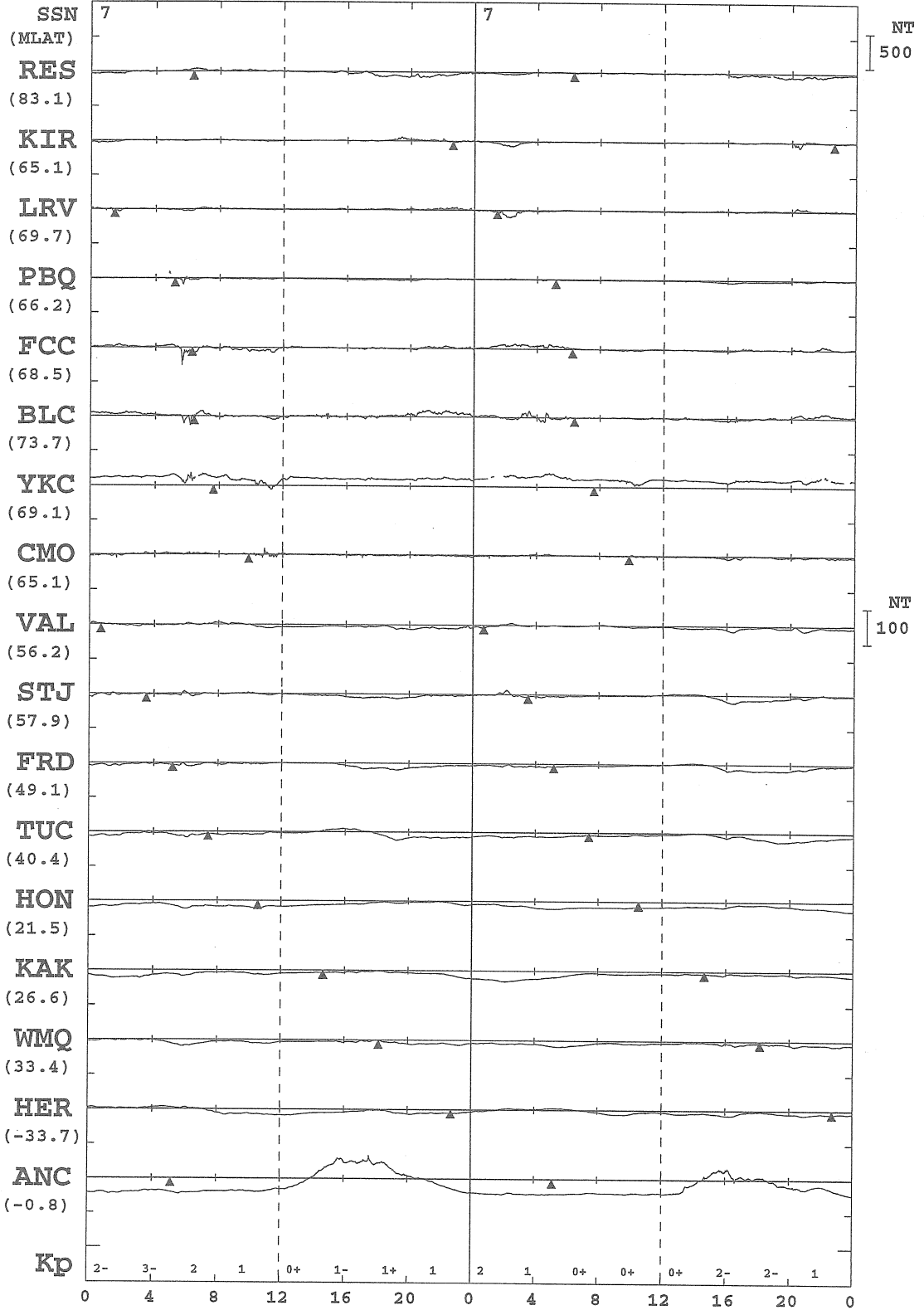


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

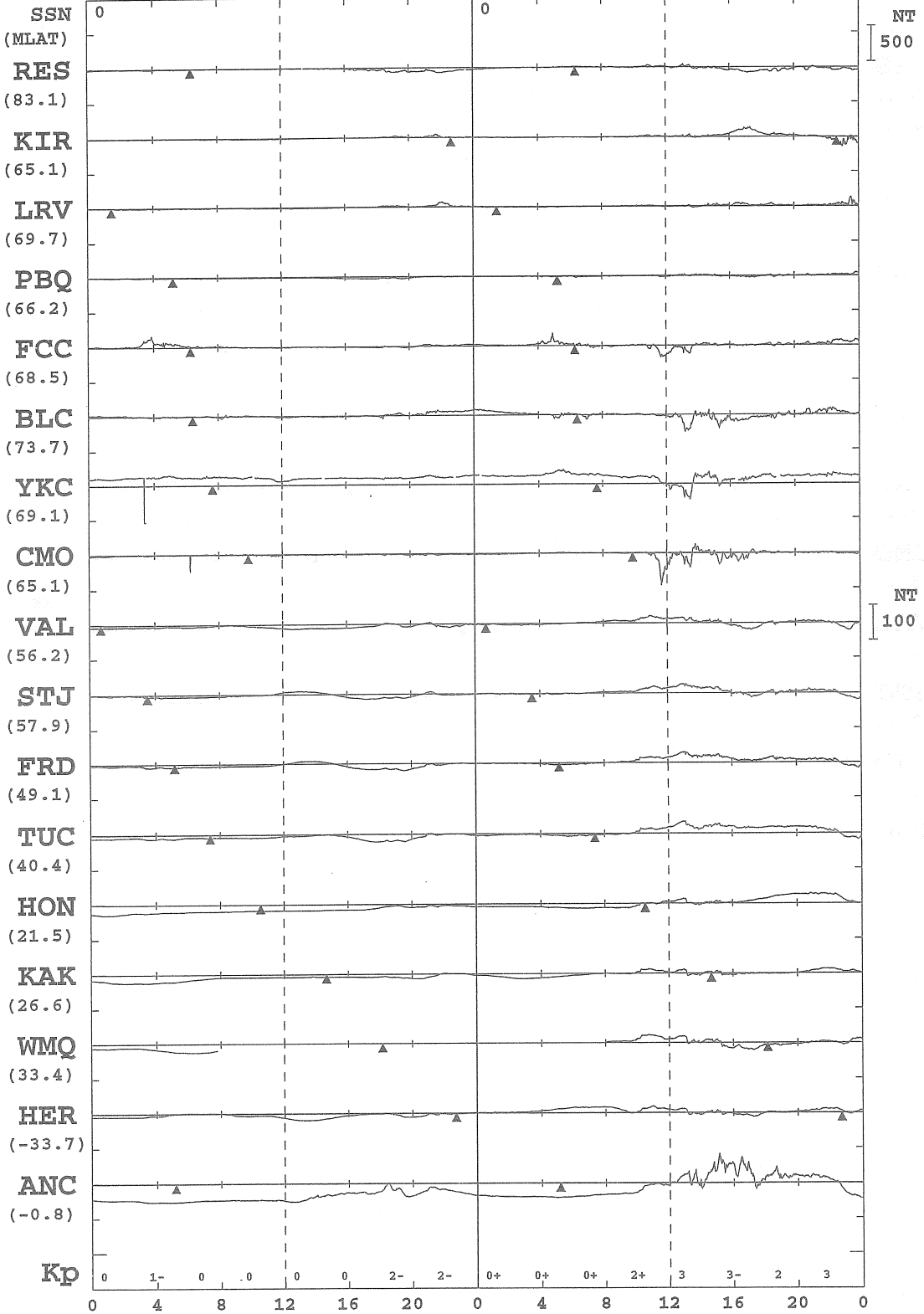


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

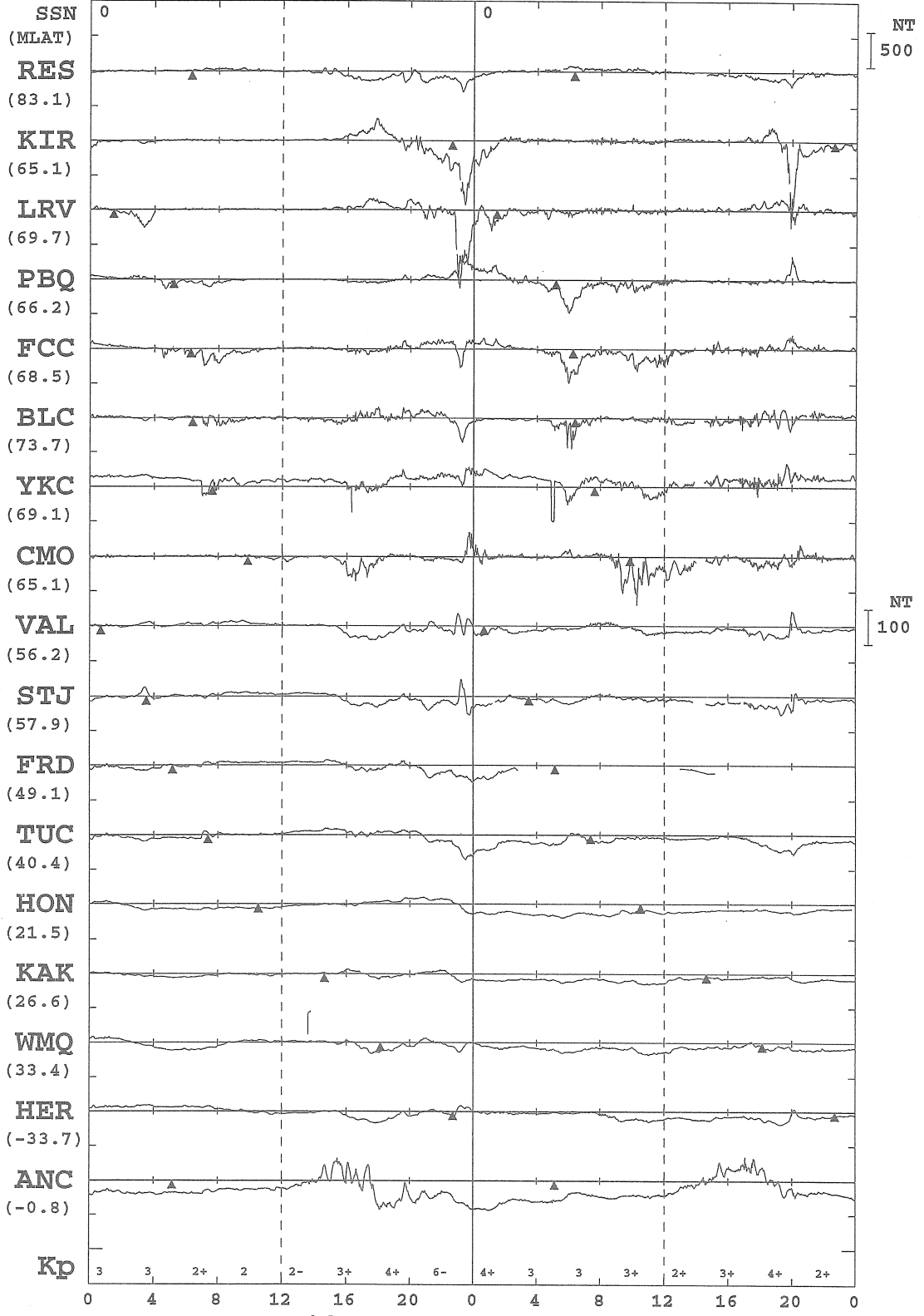
▲ : LOCAL MIDNIGHT



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KYOTO UNIV.

2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



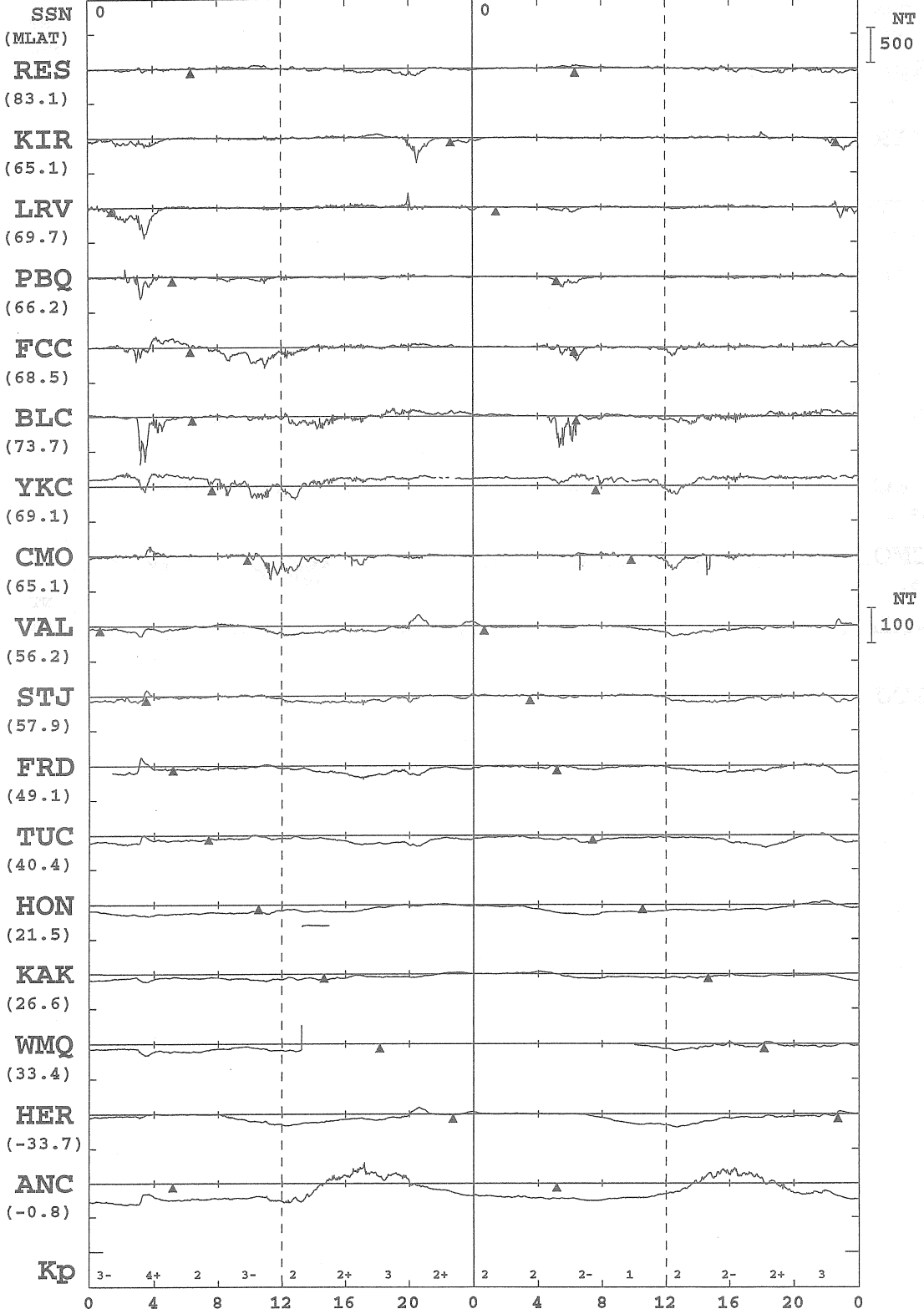
FEB 13 (DAY 44)

FEB 14 (DAY 45)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

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2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



FEB 15
(DAY 46)

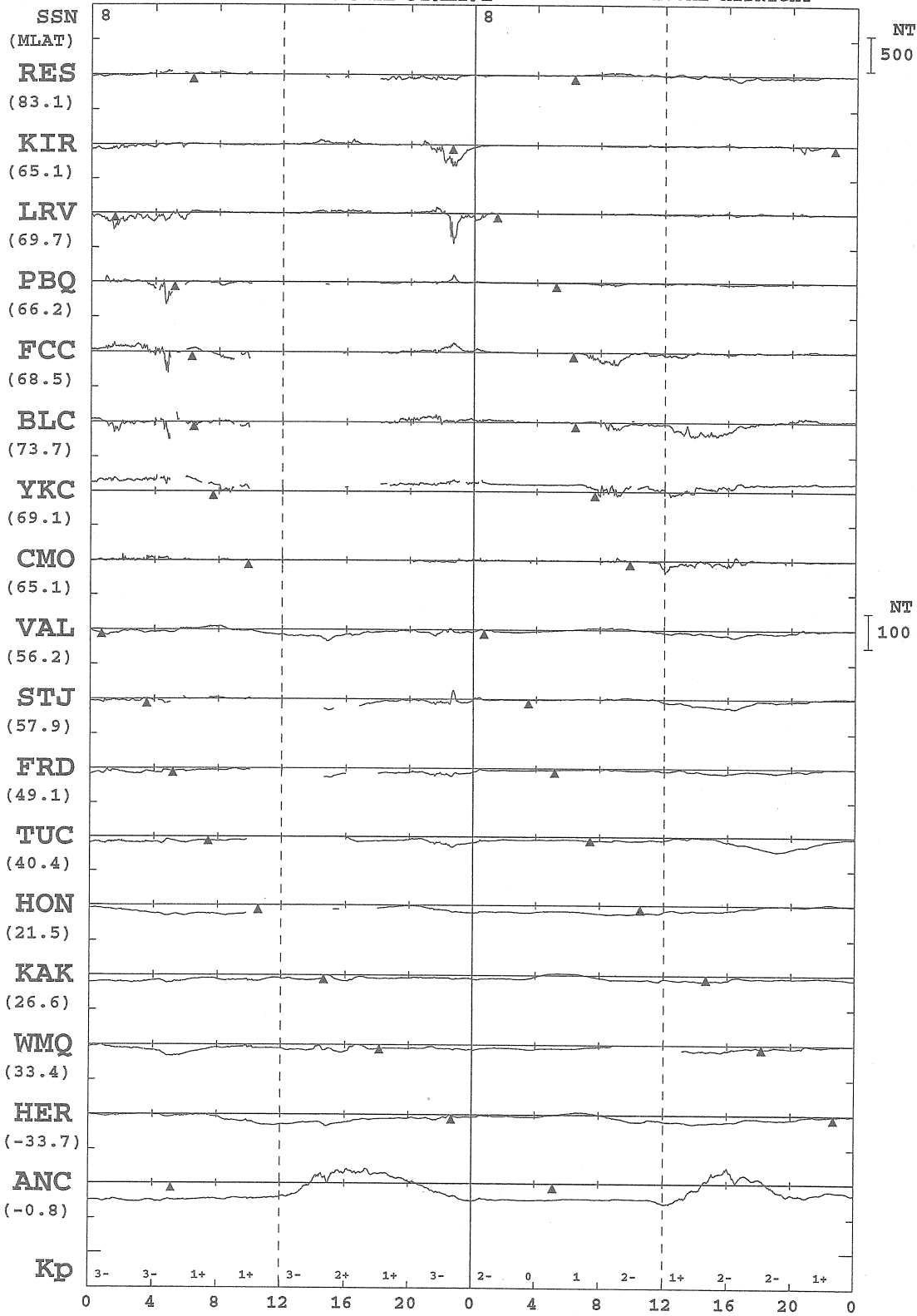
FEB 16
(DAY 47)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



FEB 17
(DAY 48)

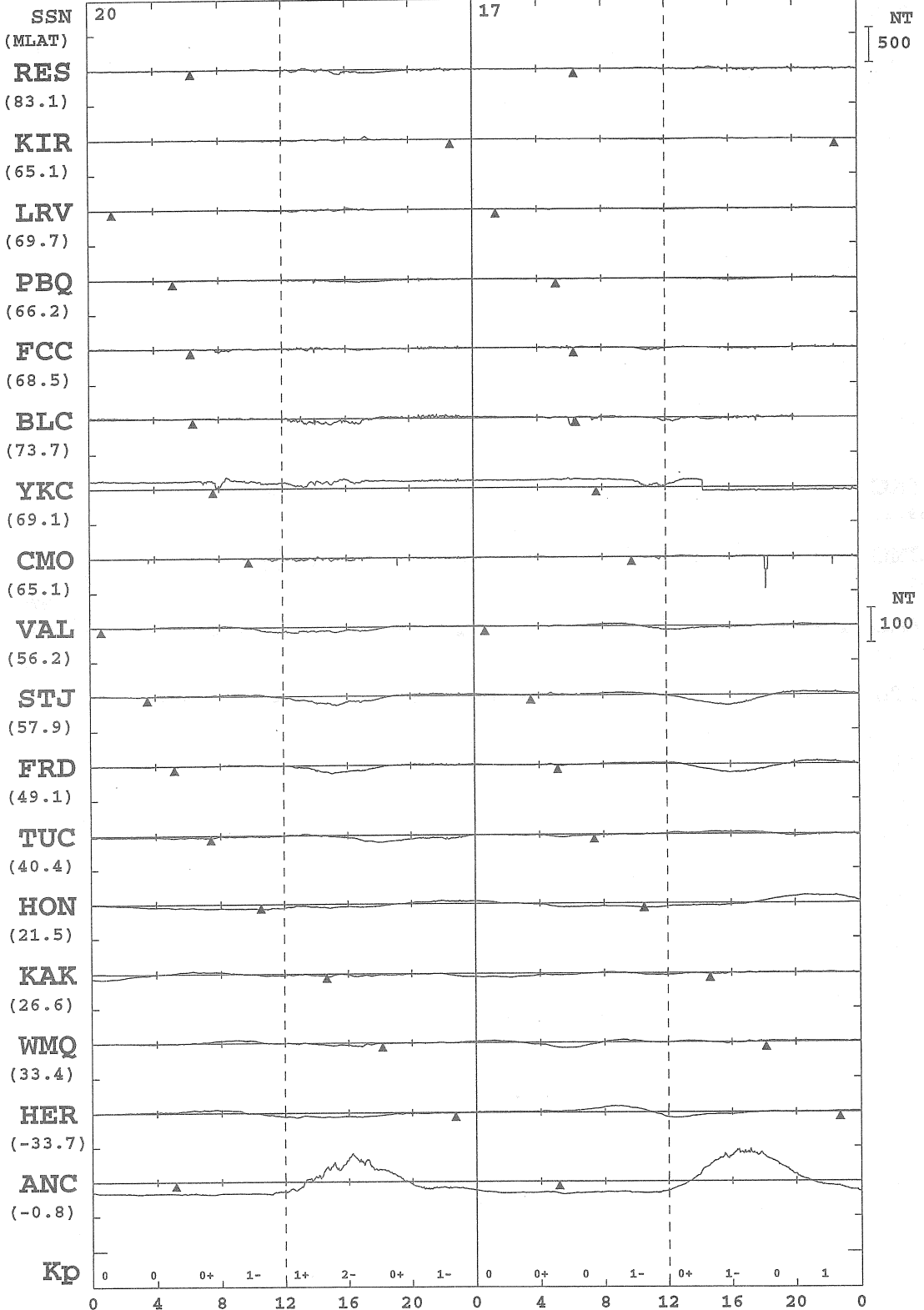
FEB 18
(DAY 49)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



FEB 19
(DAY 50)

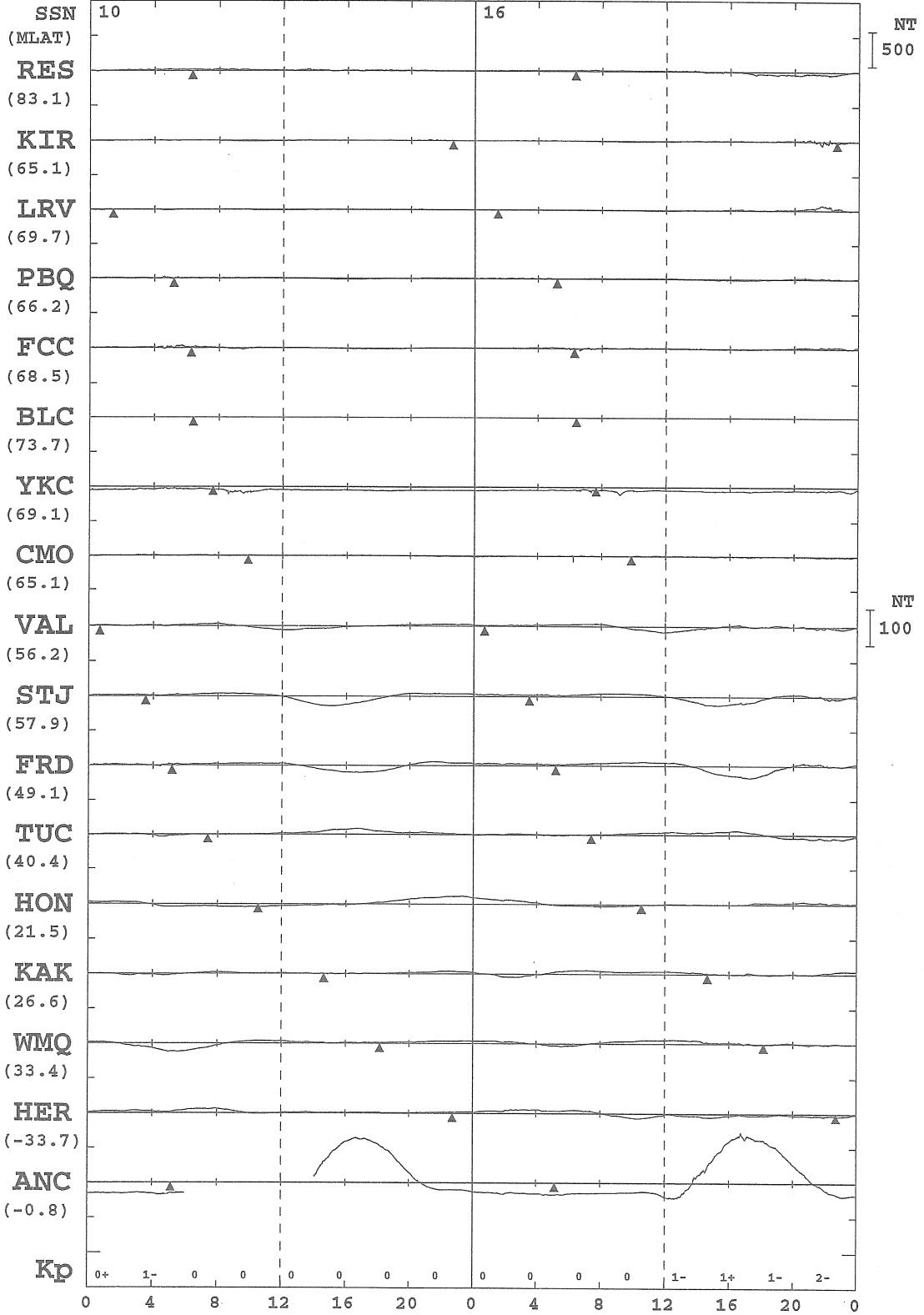
FEB 20
(DAY 51)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



Kp

0+ 1- 0 0 0 0 0 0 0 0 0 0 1- 1+ 1- 2-

FEB 21
(DAY 52)

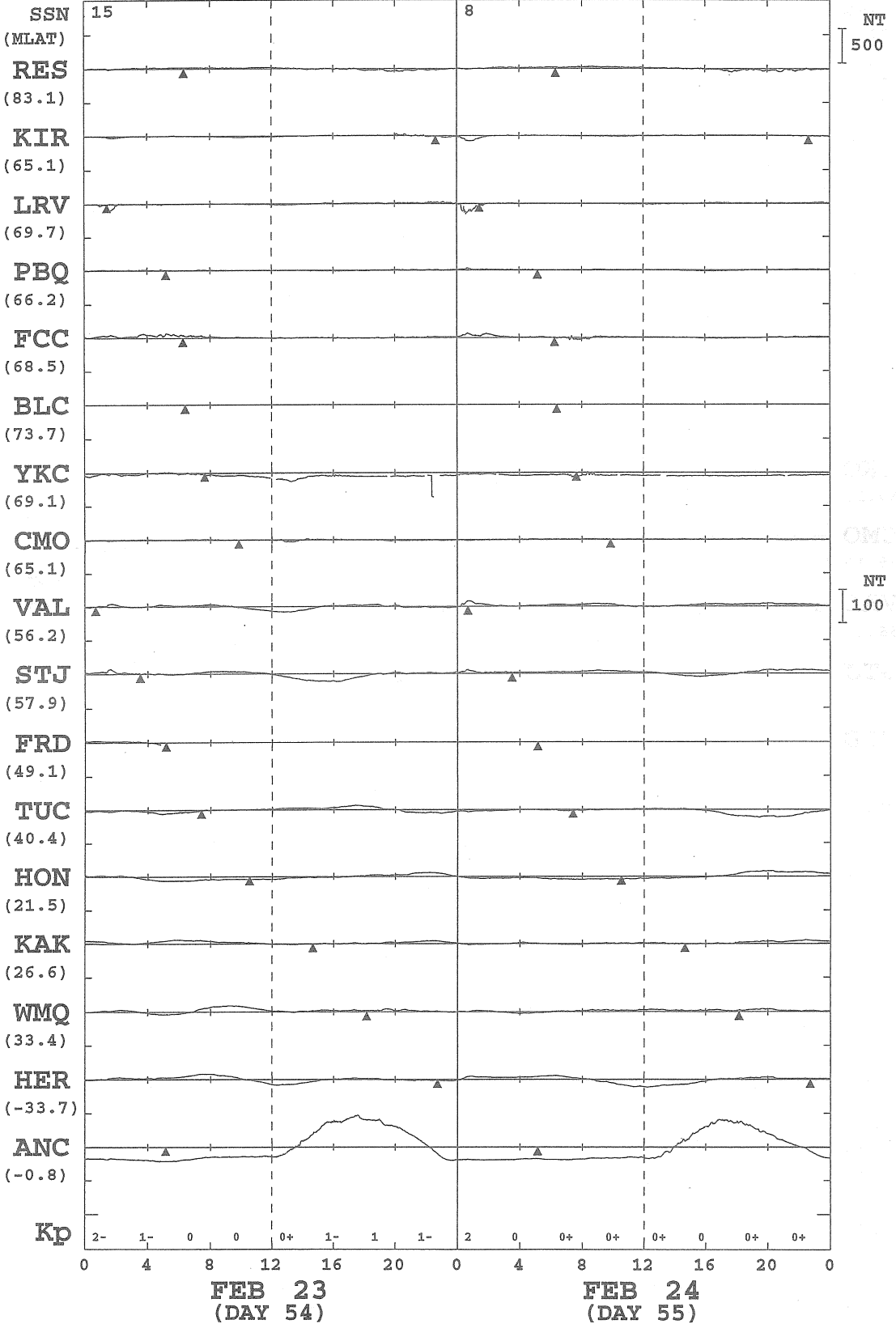
FEB 22
(DAY 53)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

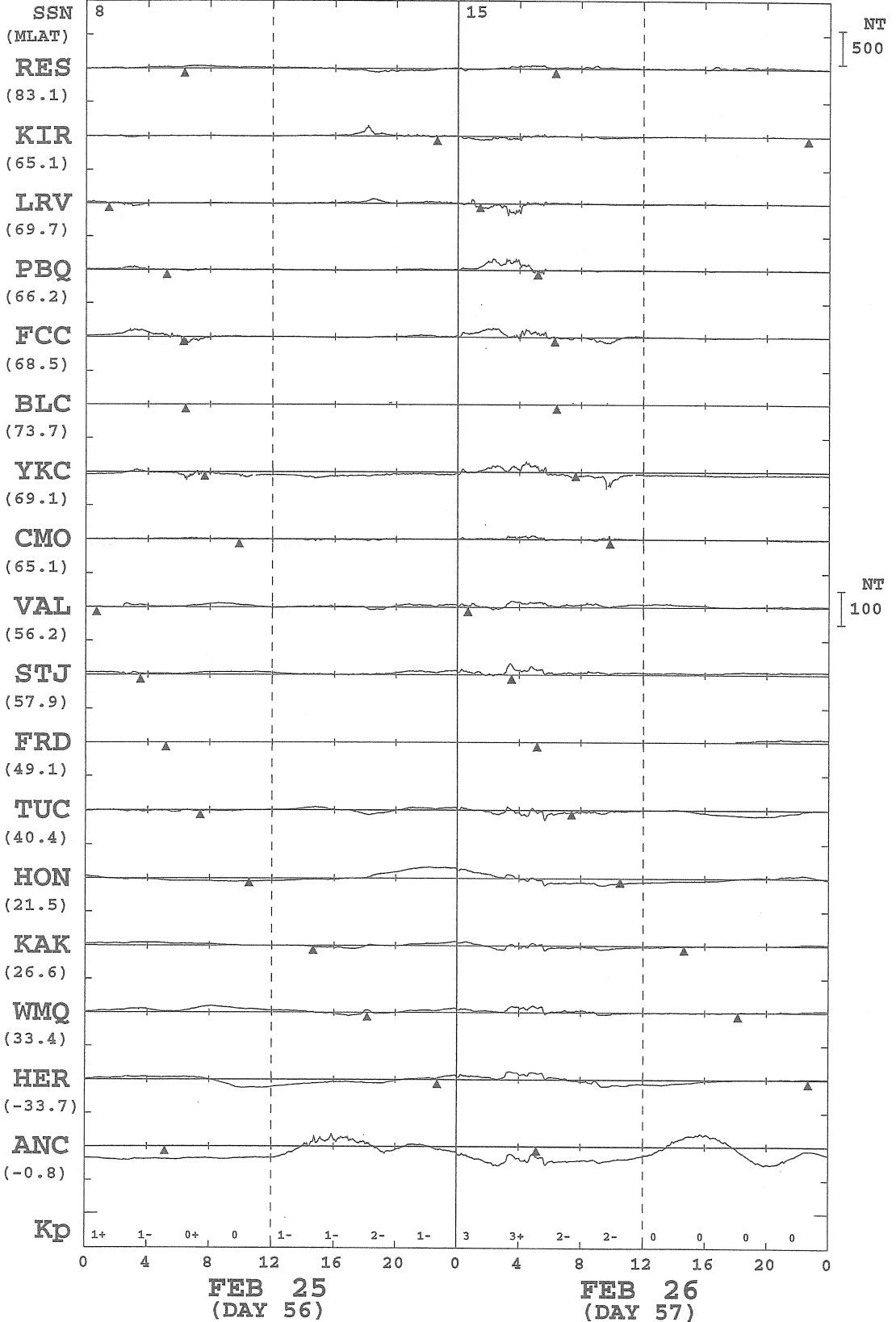


* MONTHLY MEAN OF 5-OULET DAYS IS SUBTRACTED
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 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

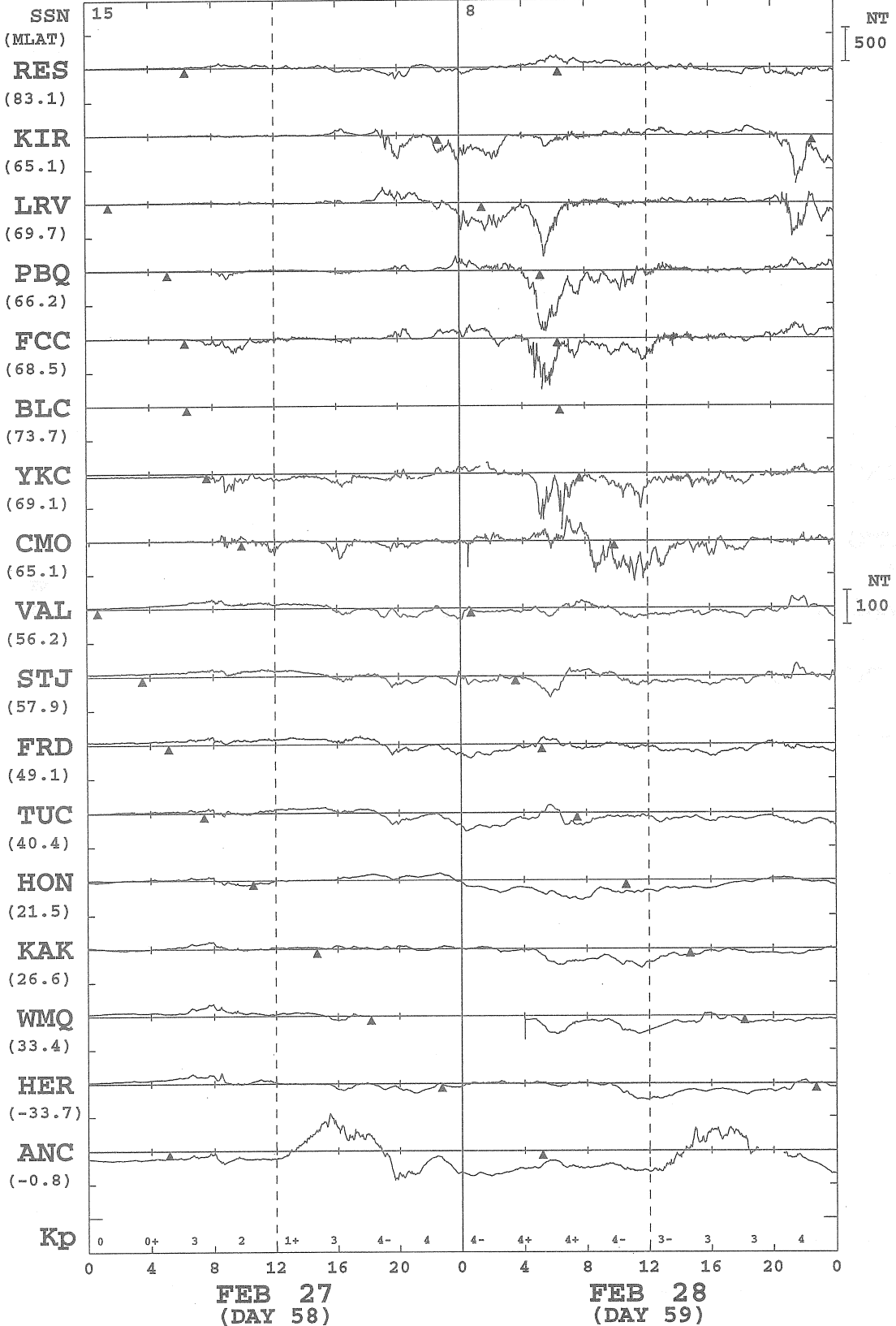
▲ : LOCAL MIDNIGHT



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KYOTO UNIV.

2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

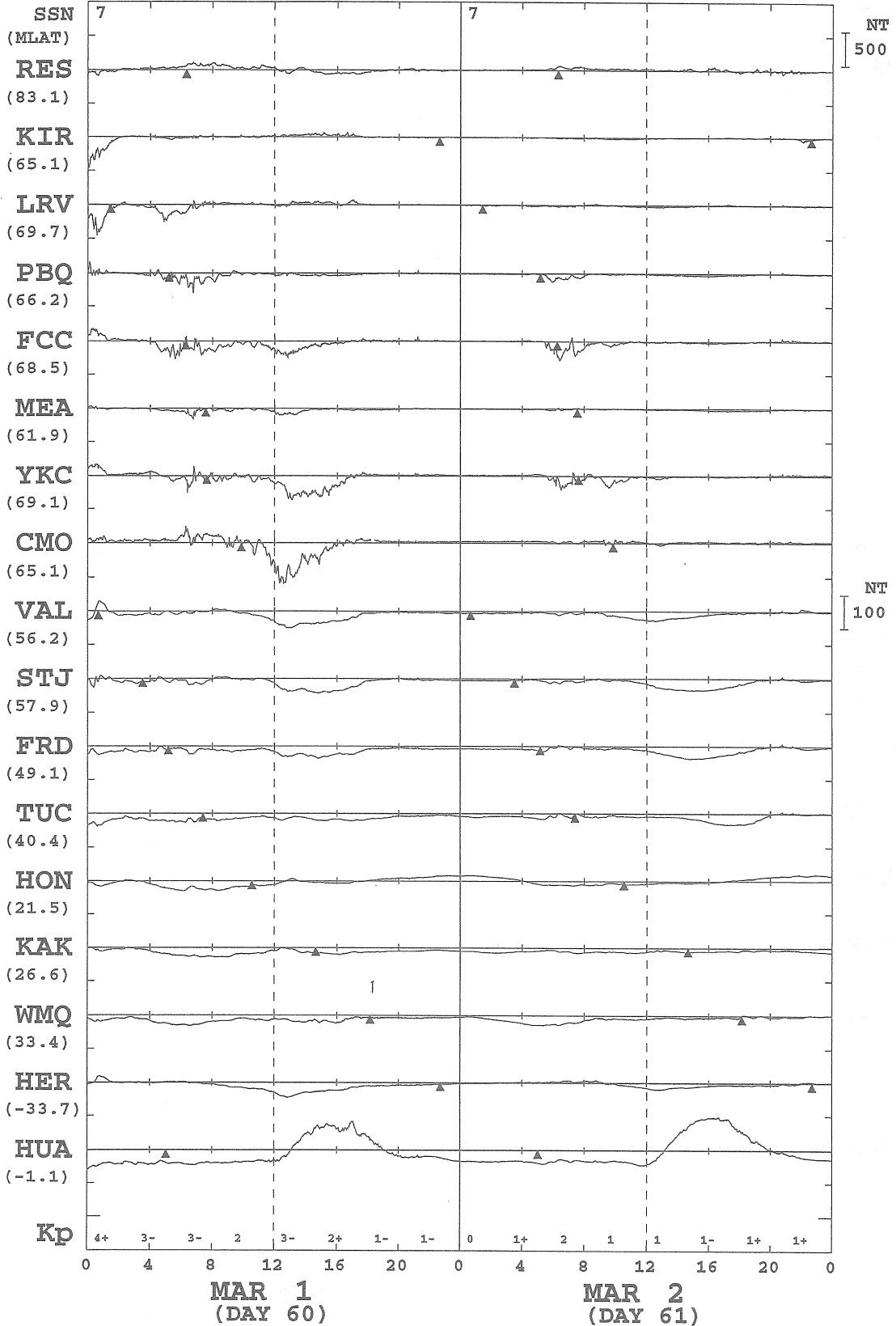


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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

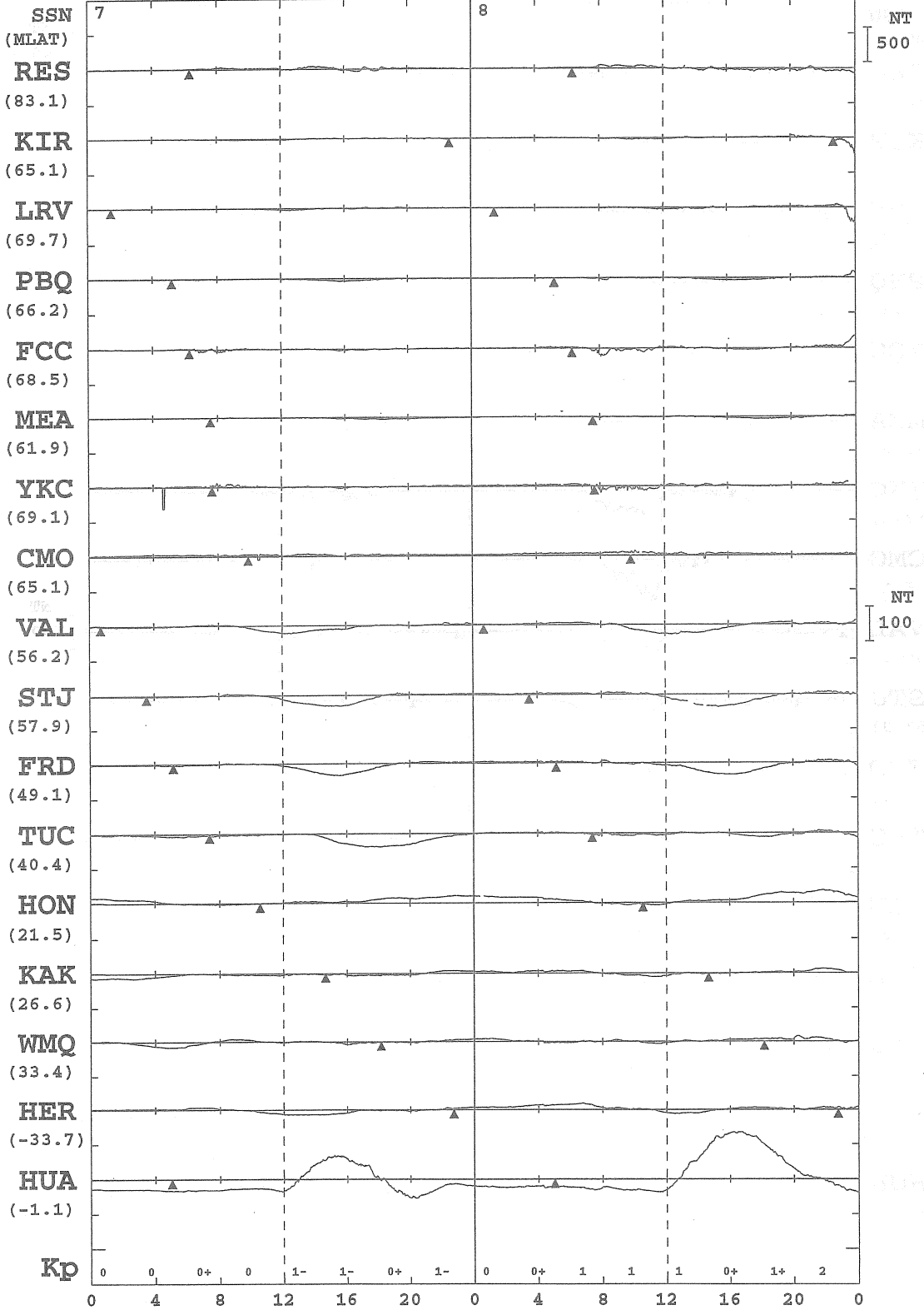


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KYOTO UNIV.

2007 H OR X-COMPONENT

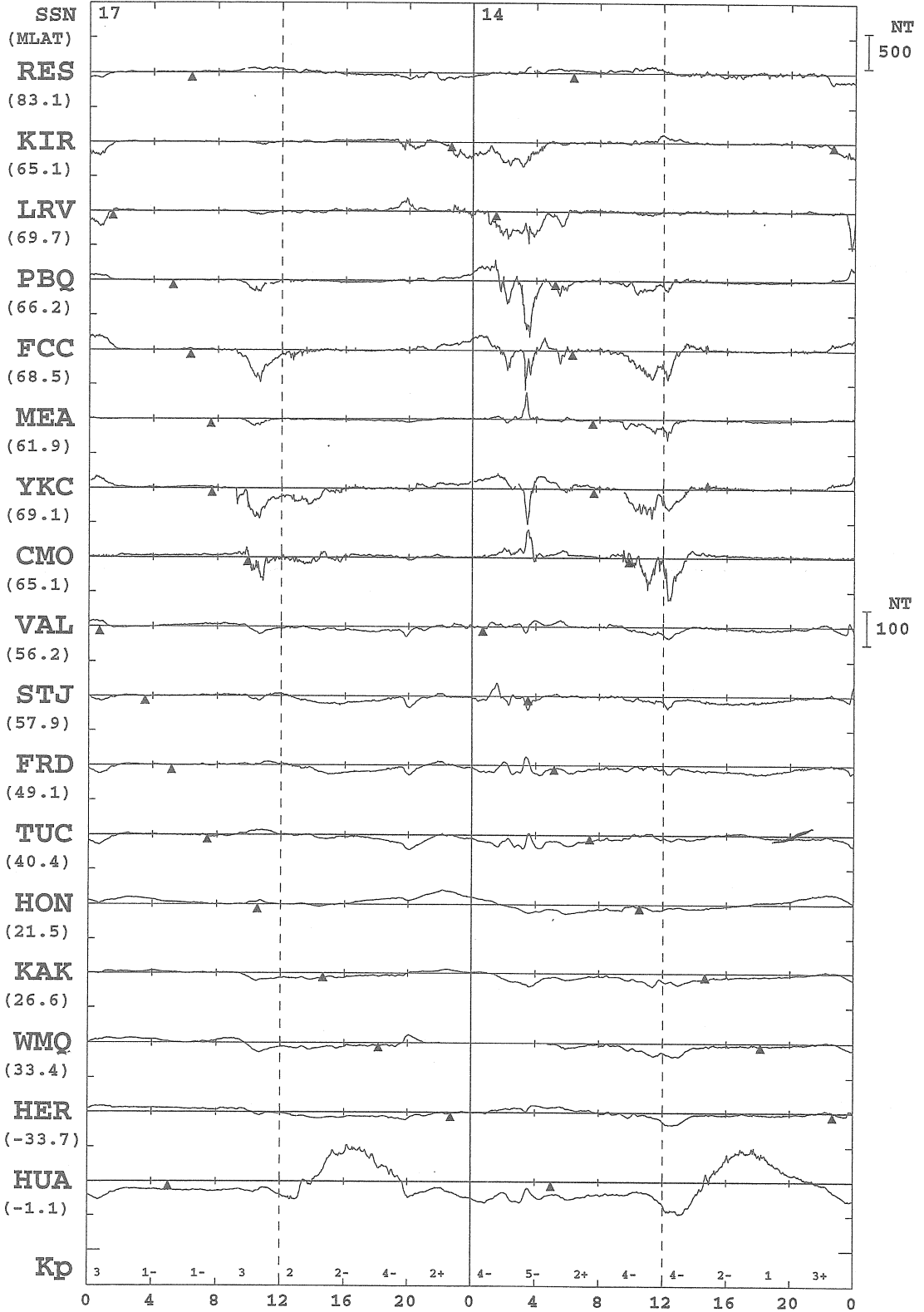
▲ : LOCAL MIDNIGHT



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KYOTO UNIV.

2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

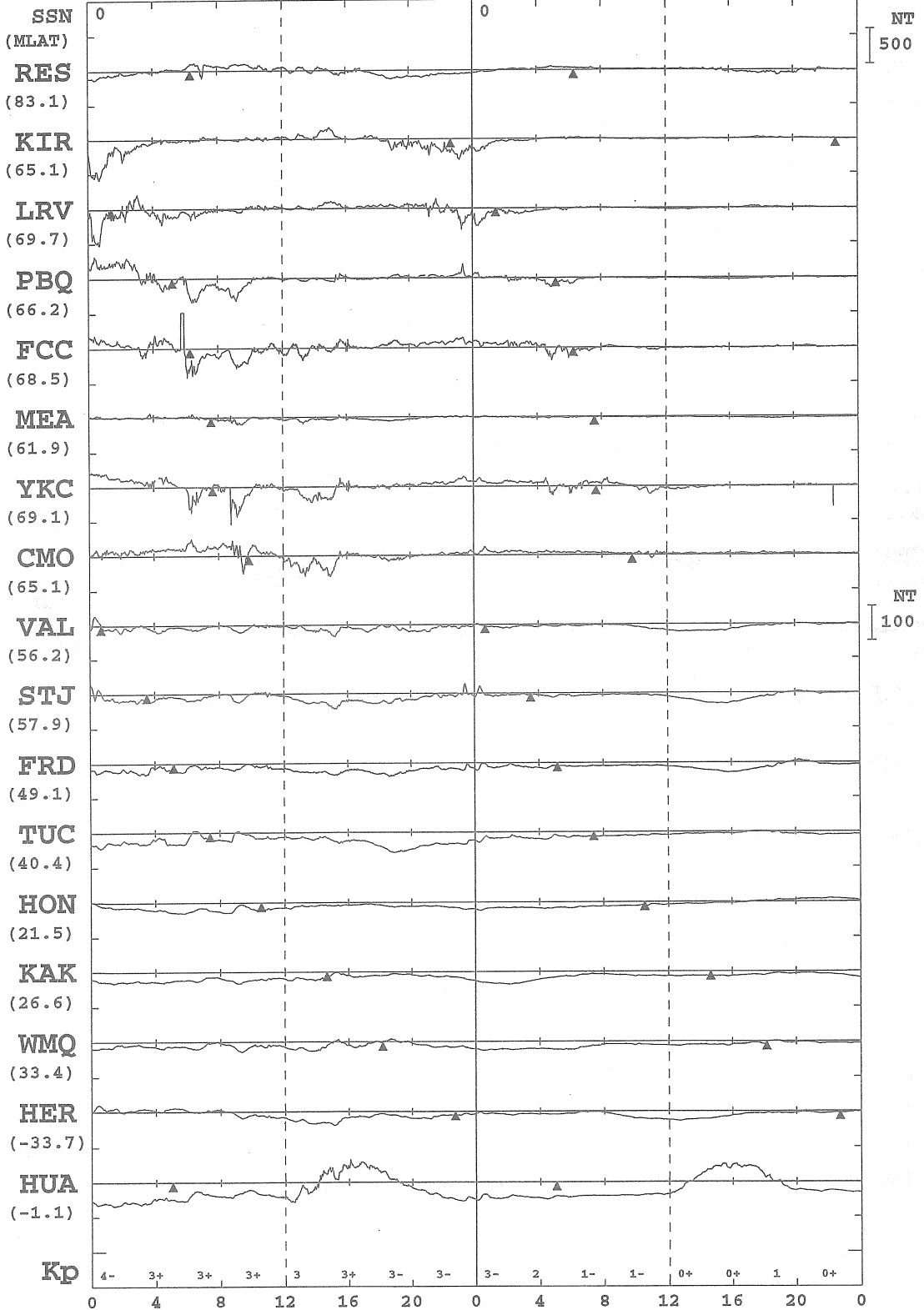


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAR 7
(DAY 66)

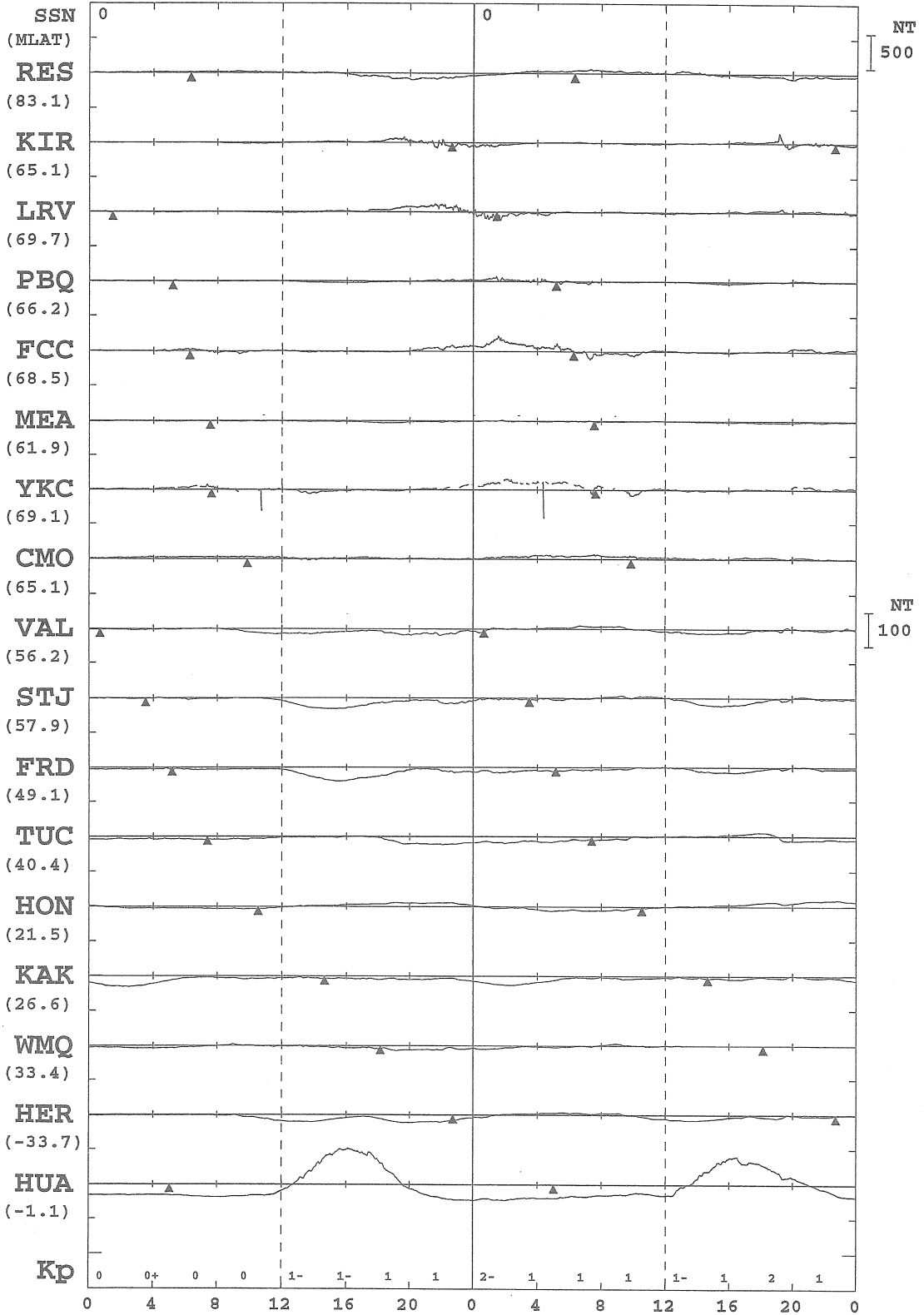
MAR 8
(DAY 67)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAR 9
(DAY 68)

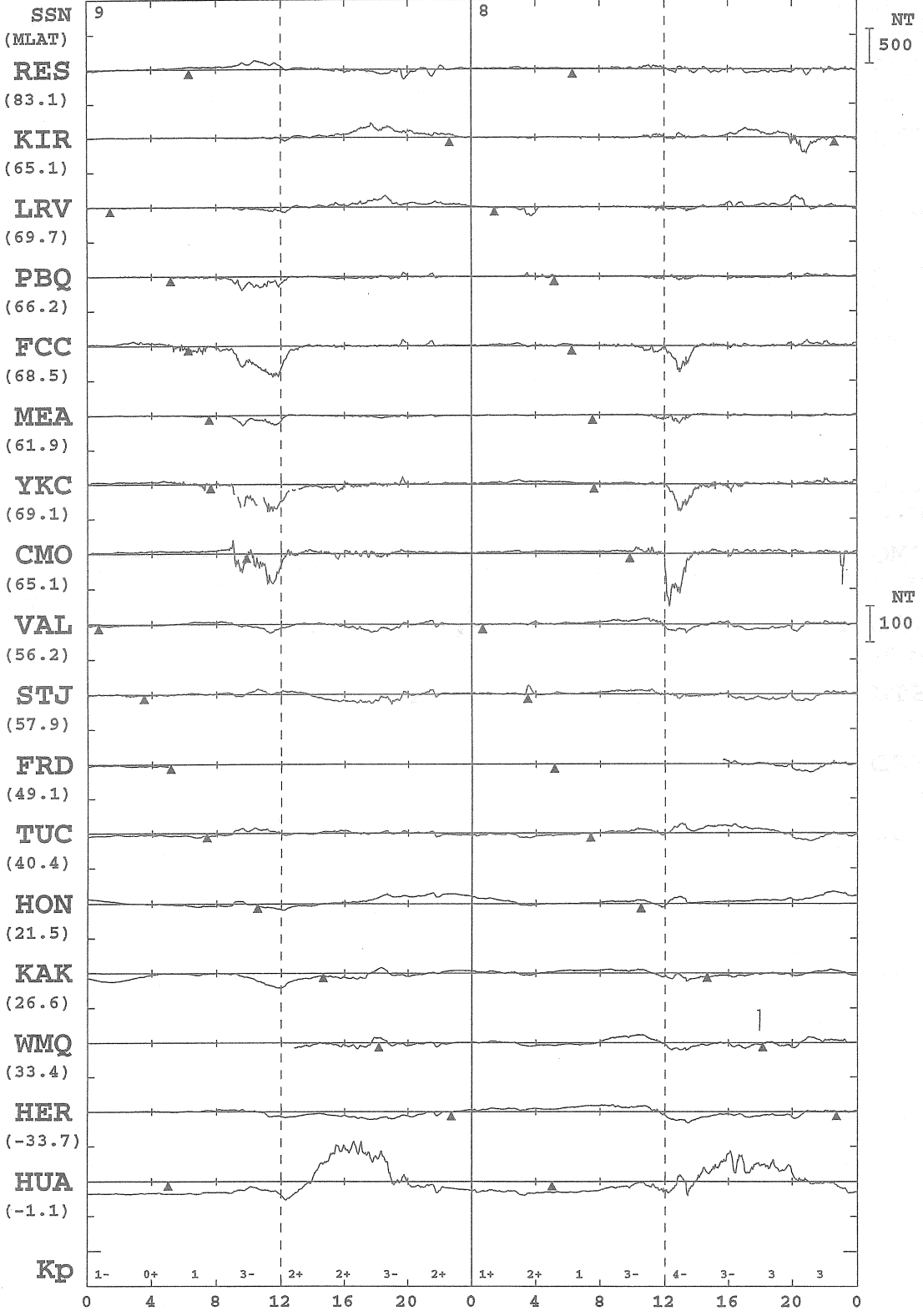
MAR 10
(DAY 69)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAR 11
(DAY 70)

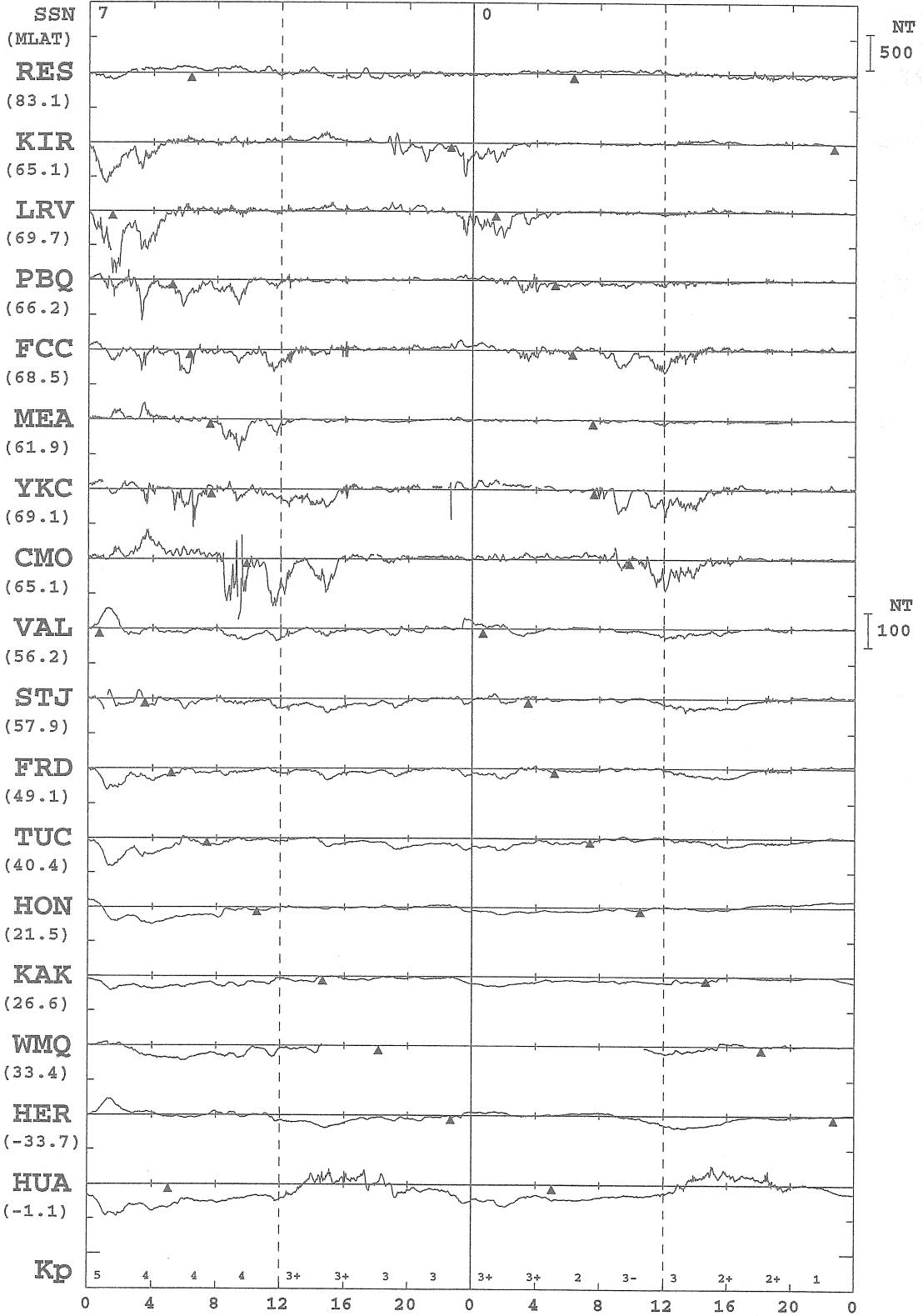
MAR 12
(DAY 71)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

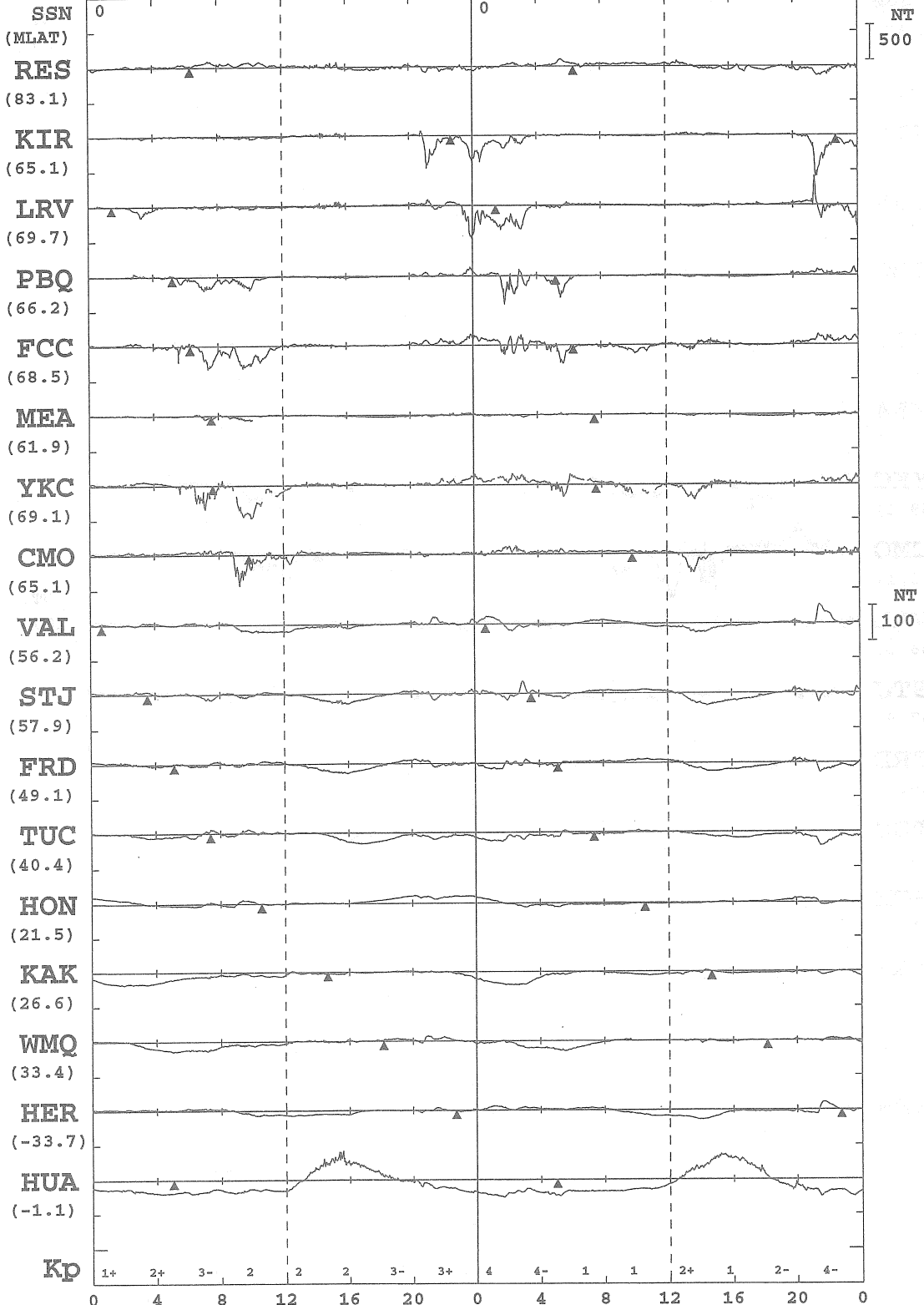


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAR 15
(DAY 74)

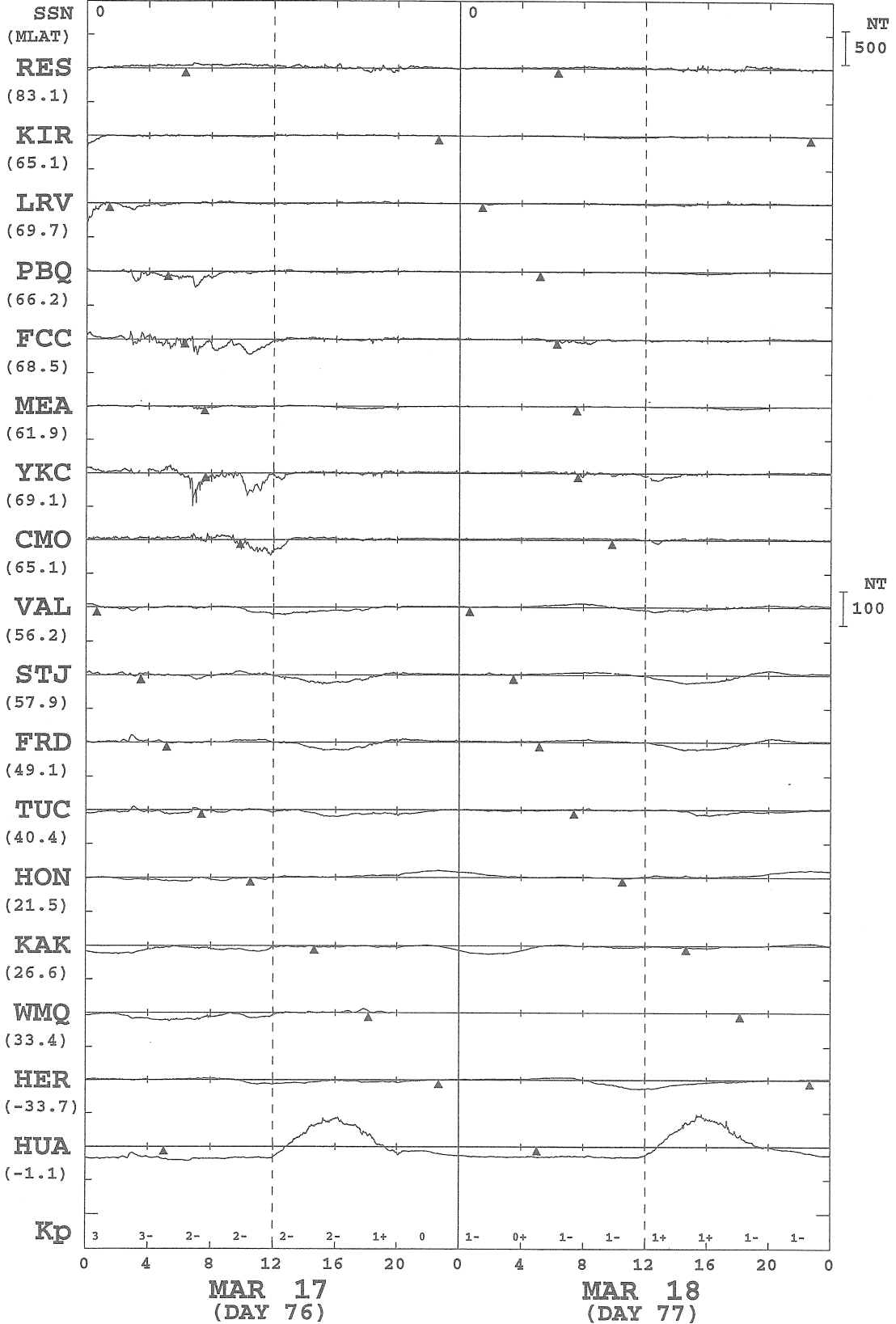
MAR 16
(DAY 75)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

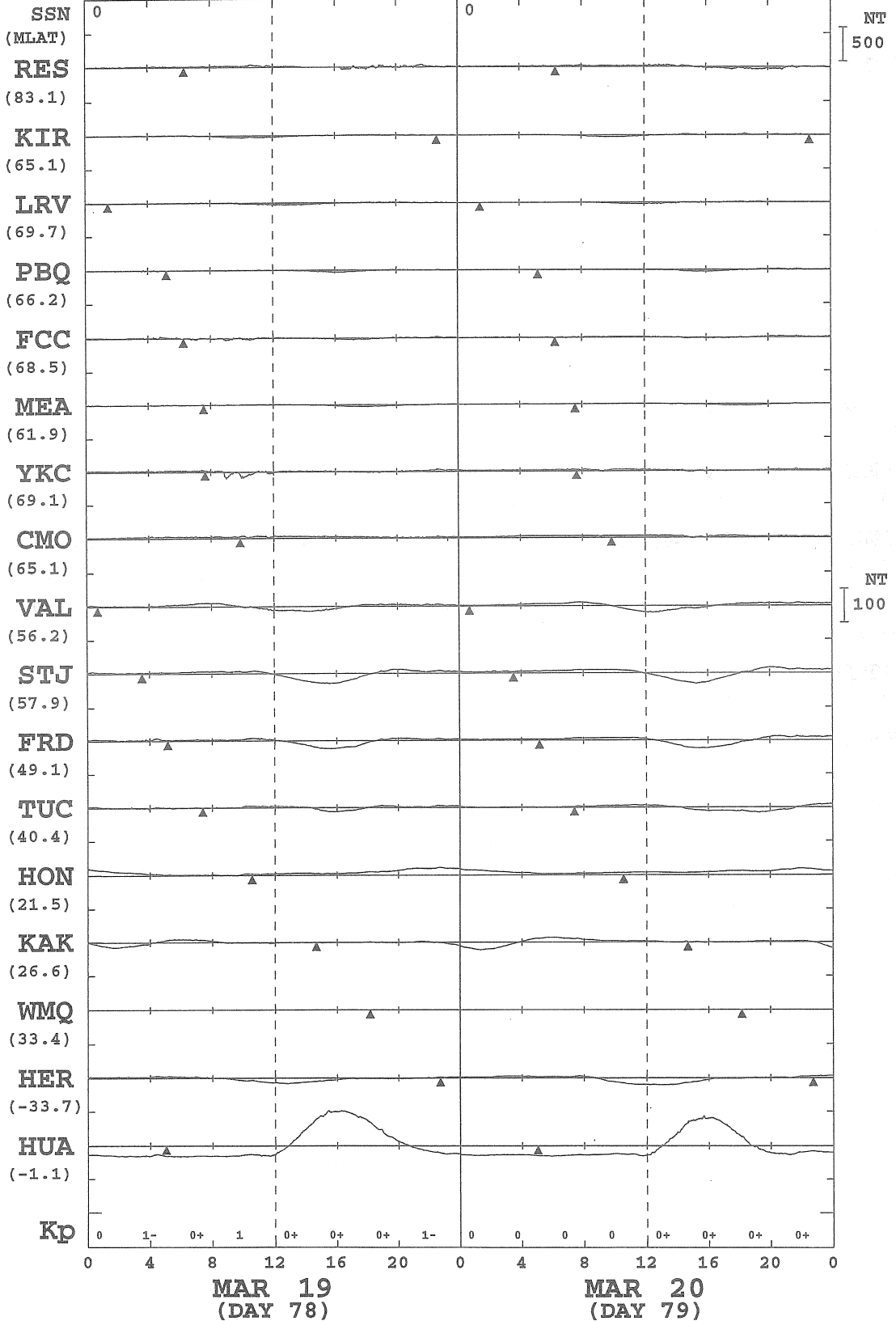


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

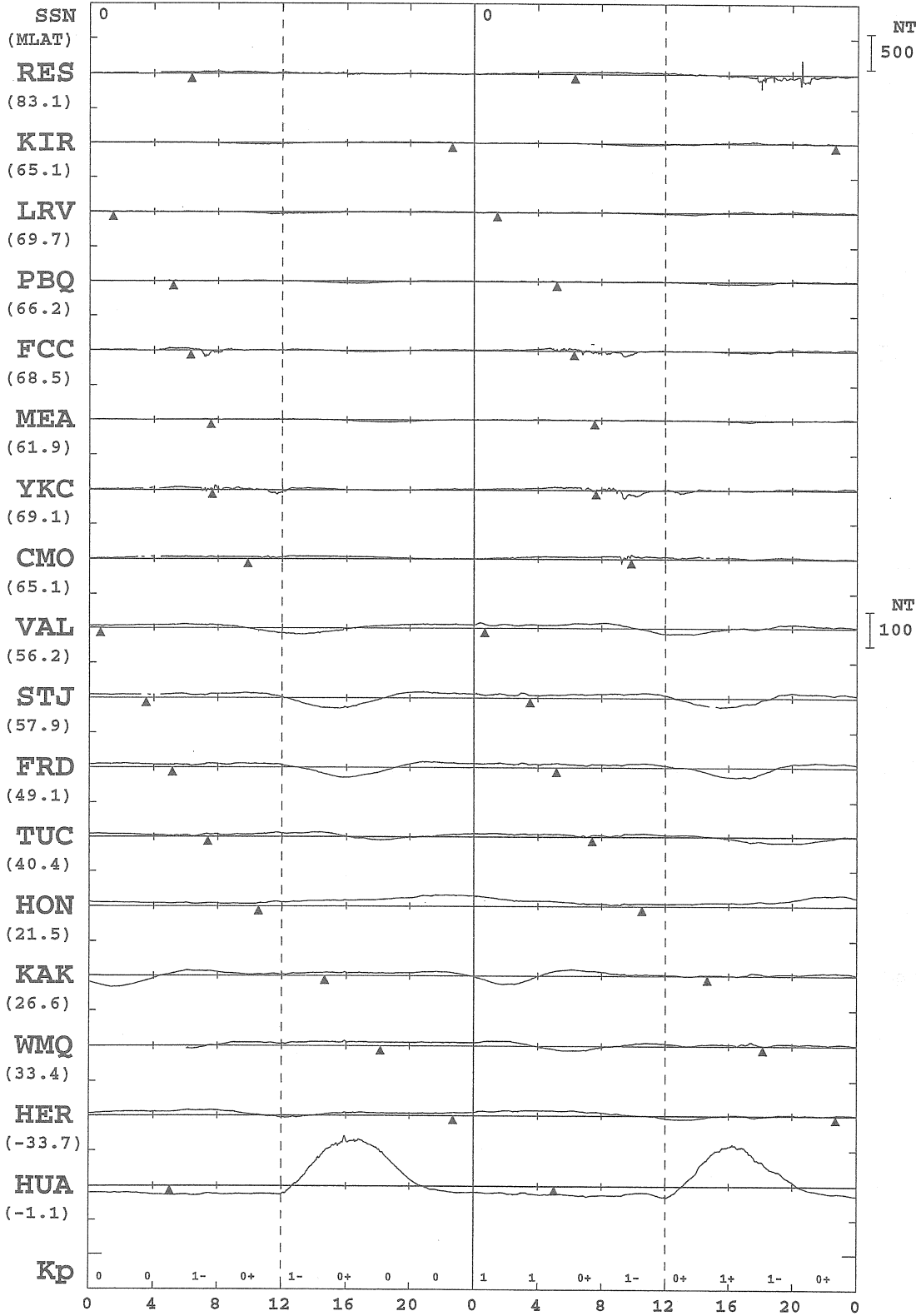


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAR 21
(DAY 80)

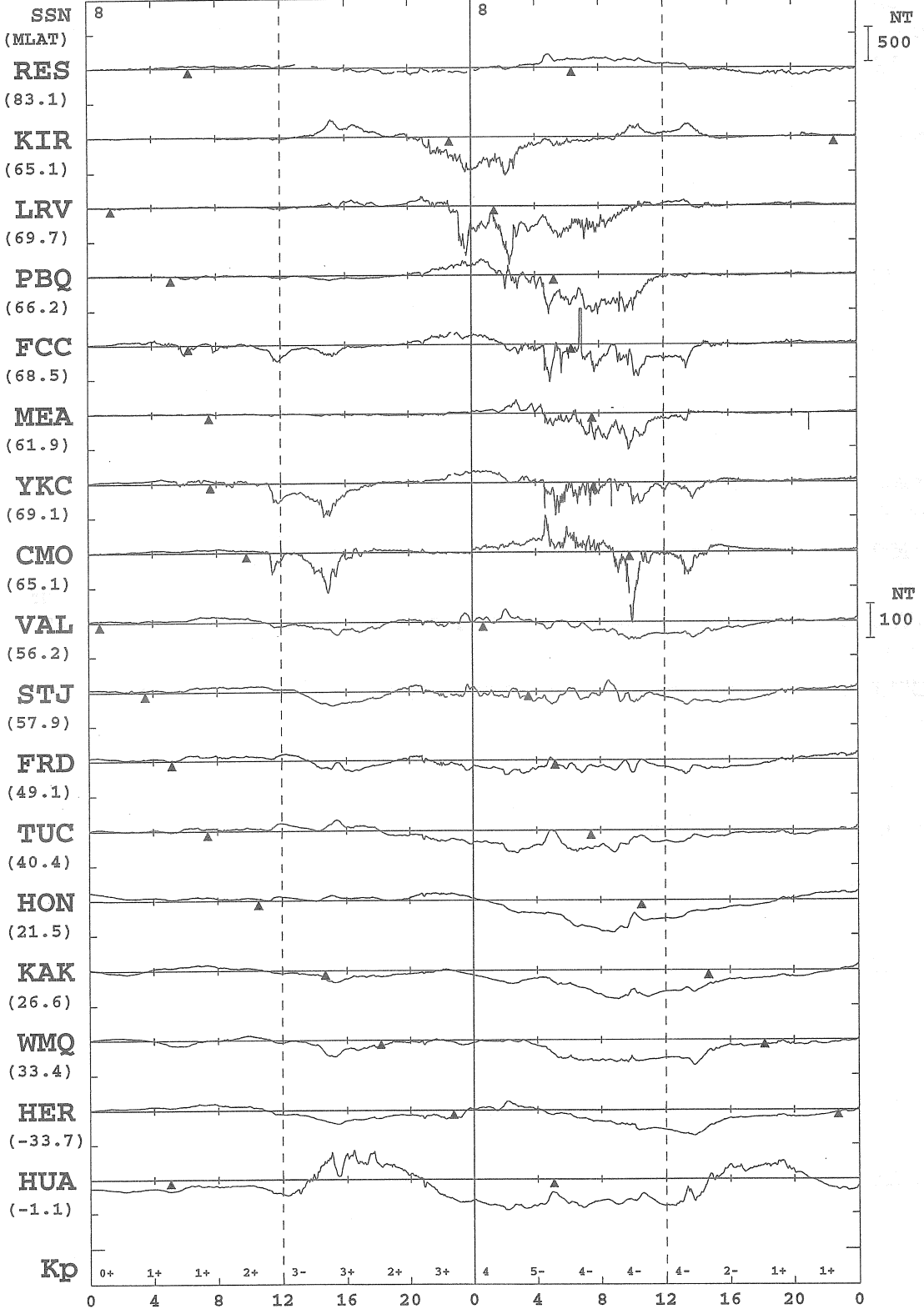
MAR 22
(DAY 81)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAR 23
(DAY 82)

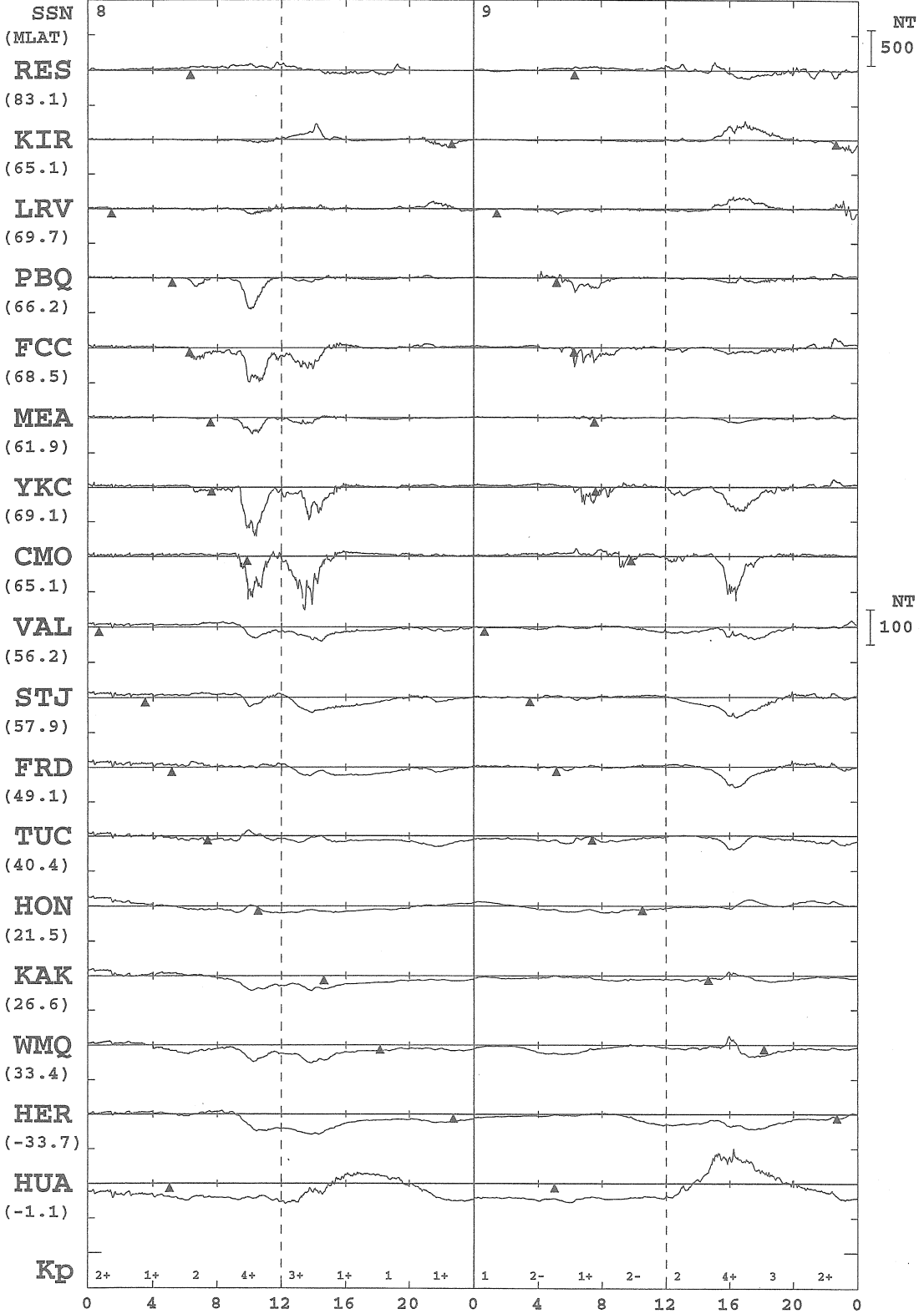
MAR 24
(DAY 83)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



Kp

2+ 1+ 2 4+ 3+ 1+ 1 1+ 1 2- 1+ 2- 2 4+ 3 2+

MAR 25
(DAY 84)

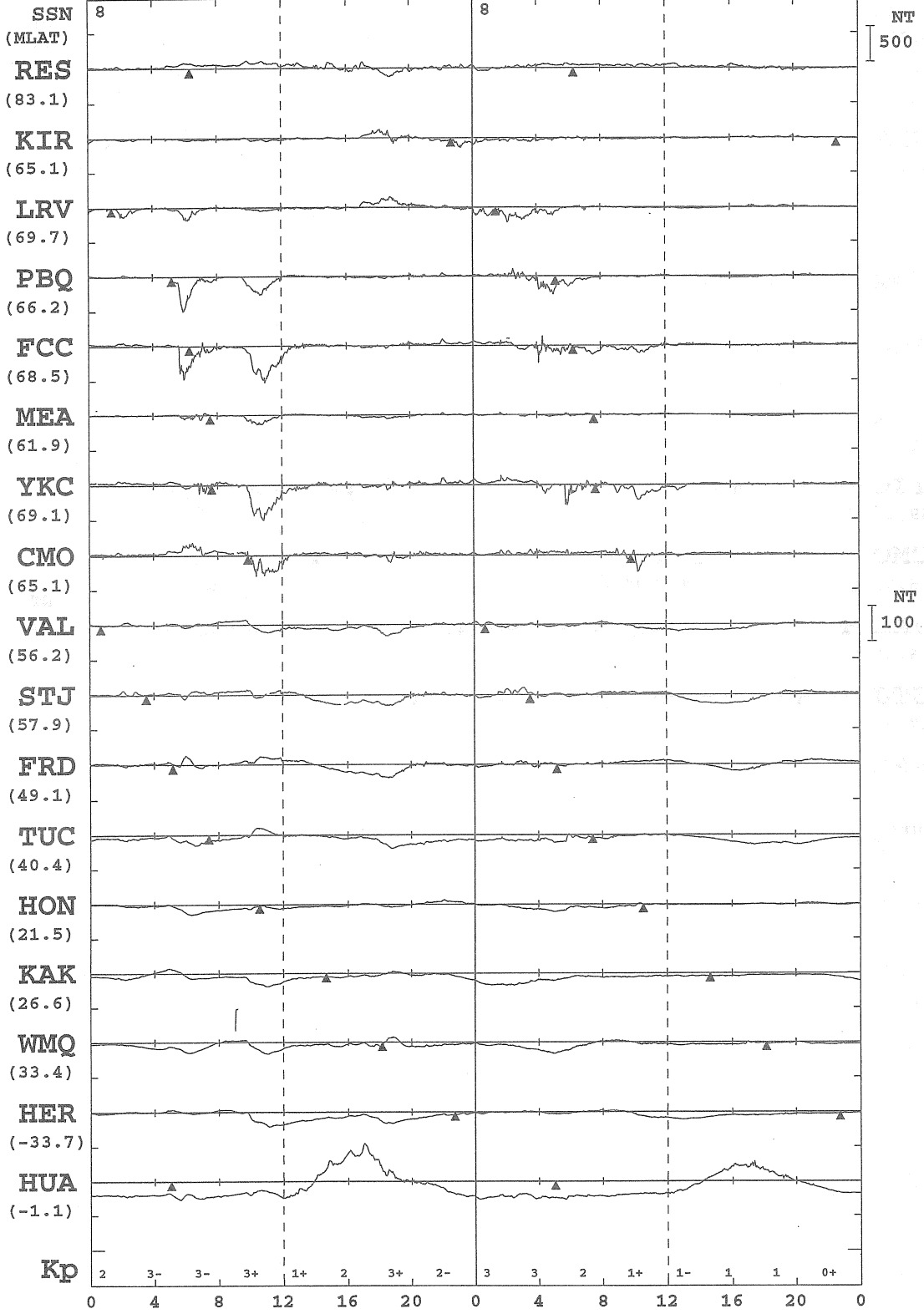
MAR 26
(DAY 85)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAR 27
(DAY 86)

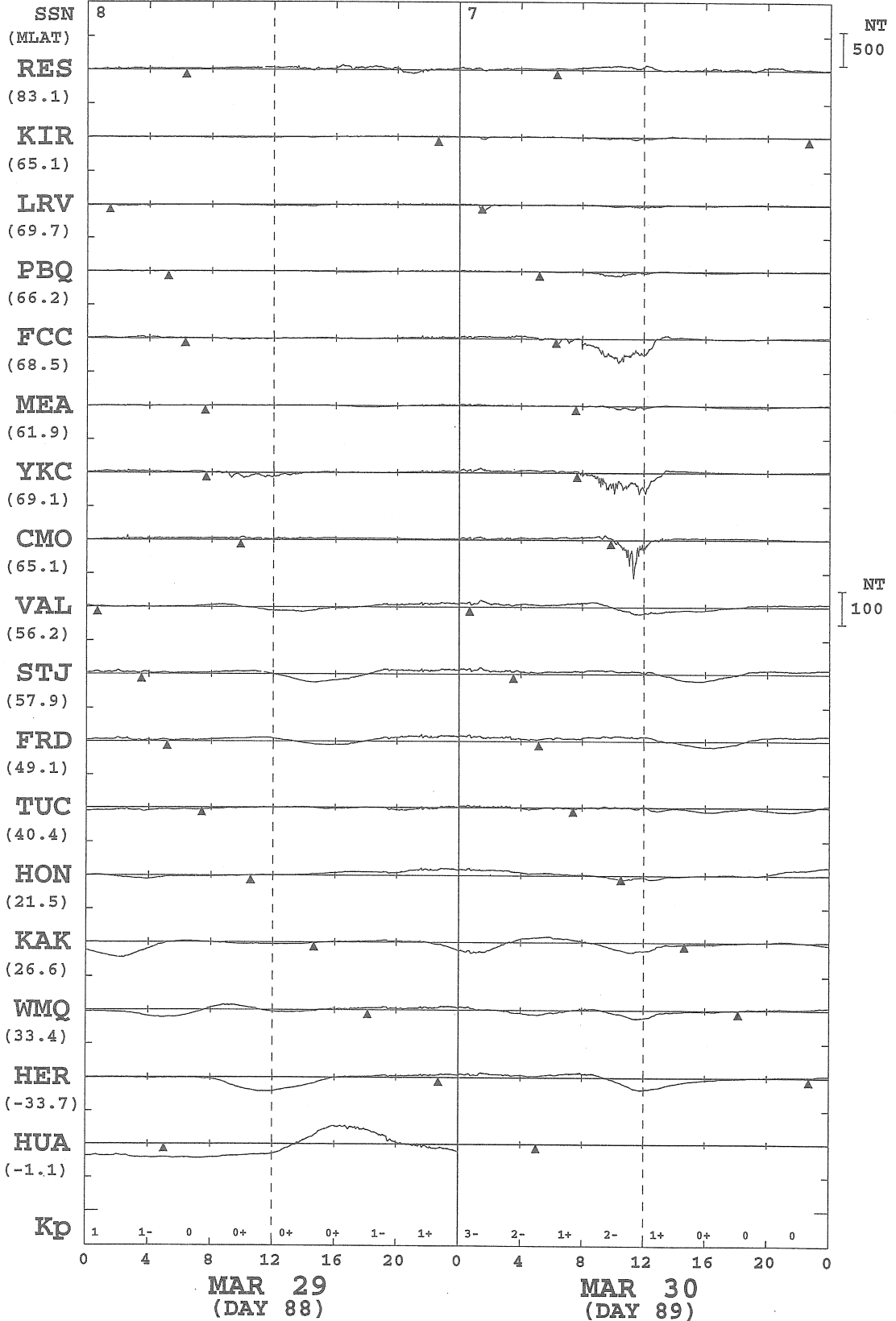
MAR 28
(DAY 87)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

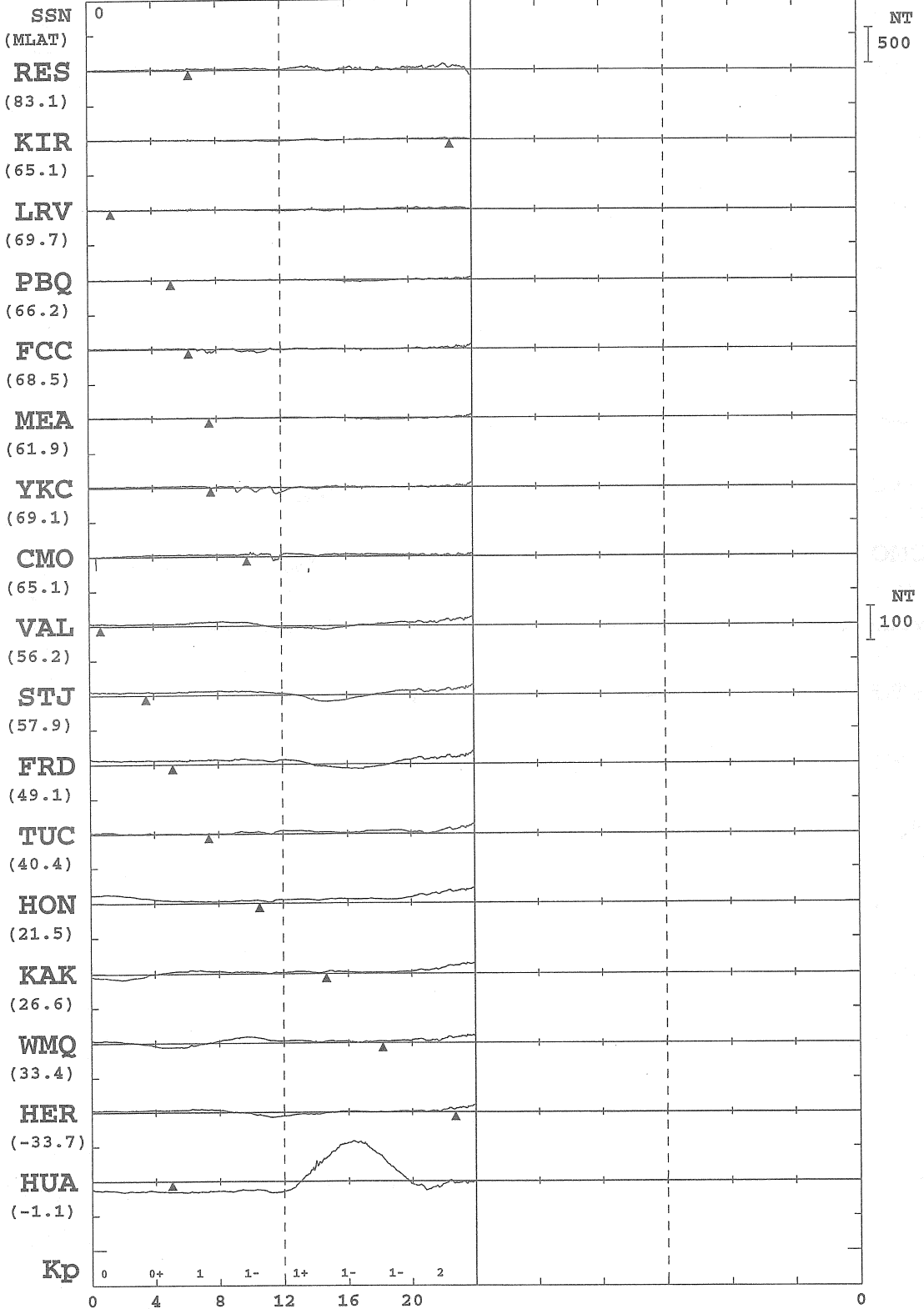


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



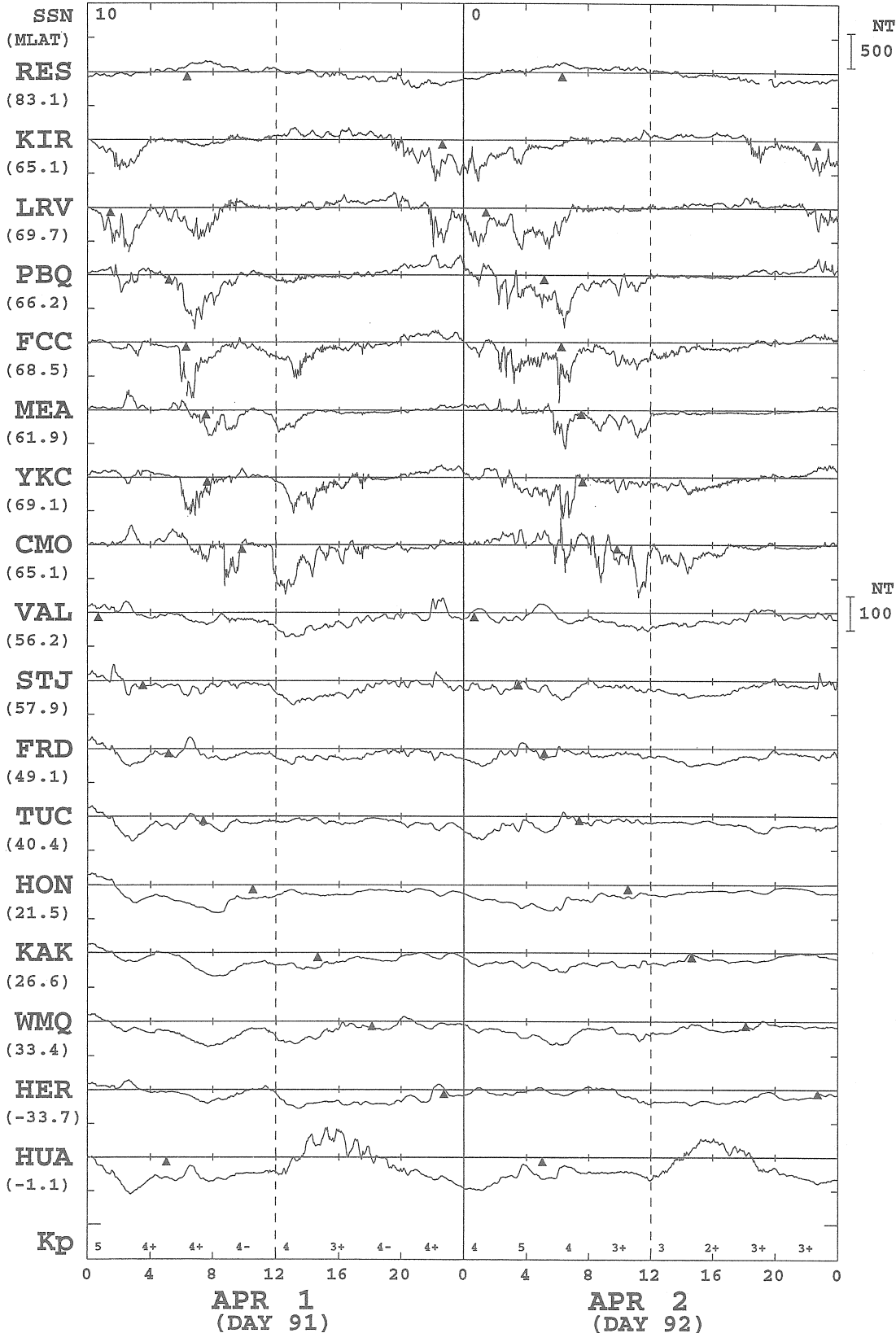
MAR 31
(DAY 90)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

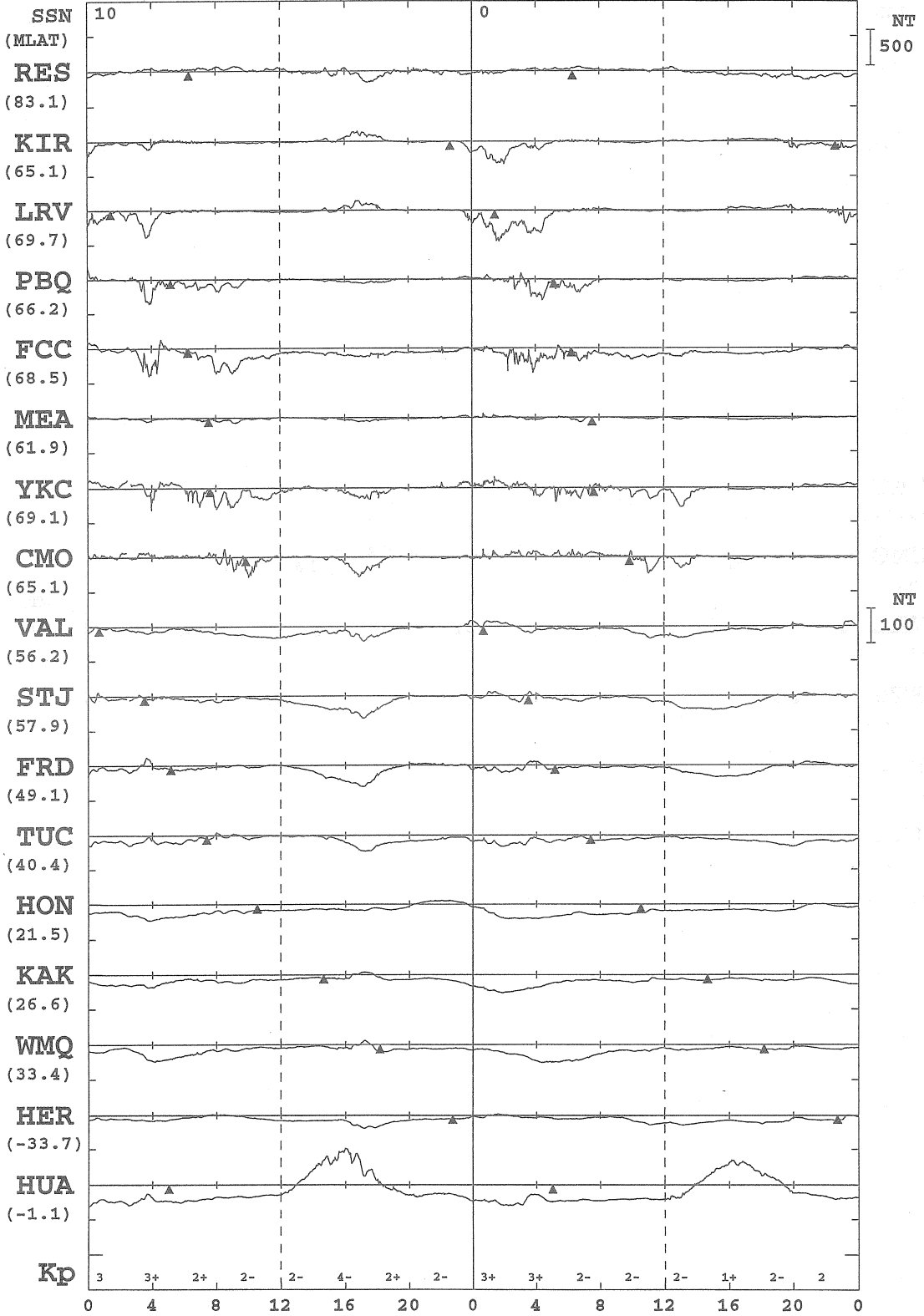


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



APR 3
(DAY 93)

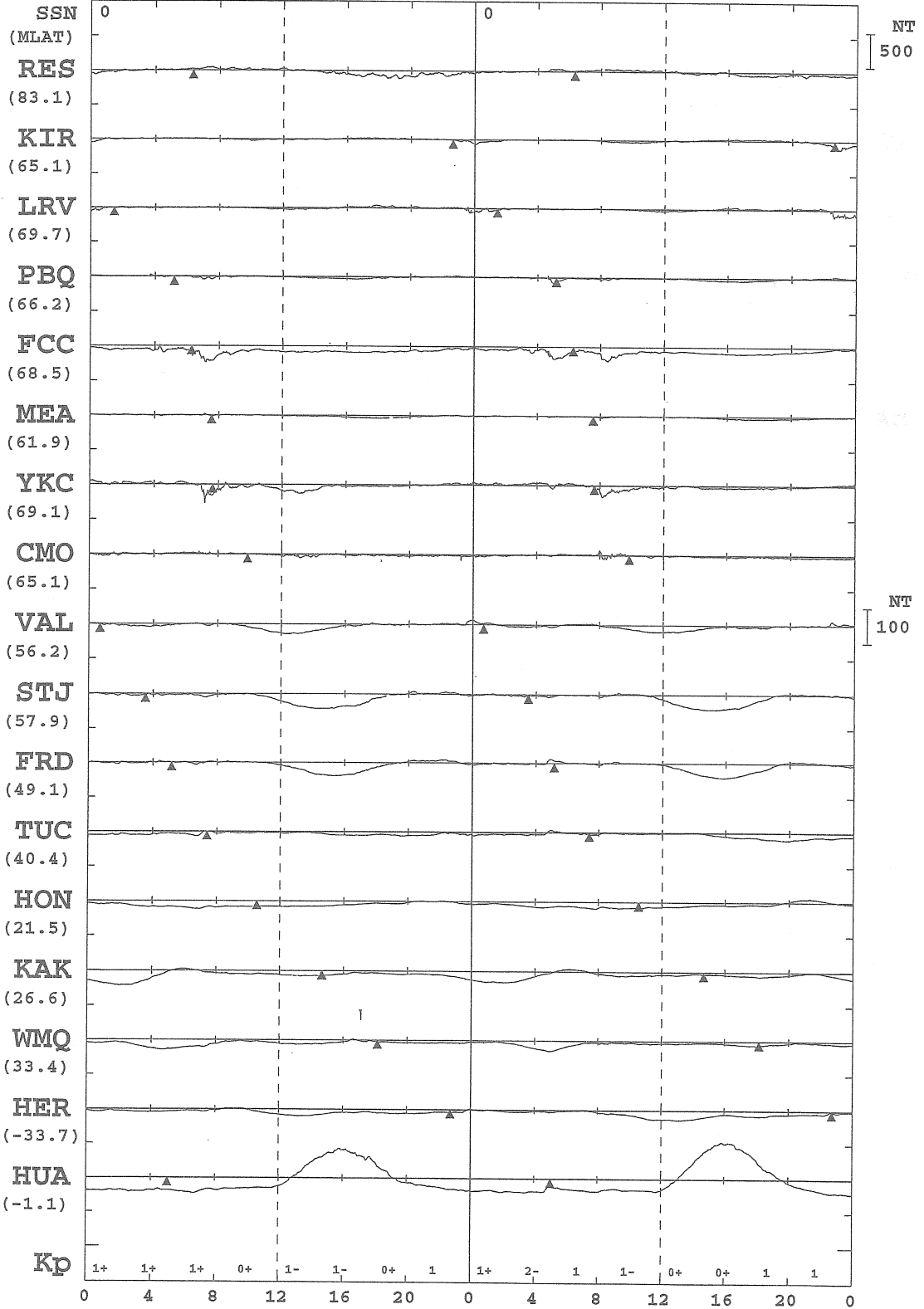
APR 4
(DAY 94)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



APR 5
(DAY 95)

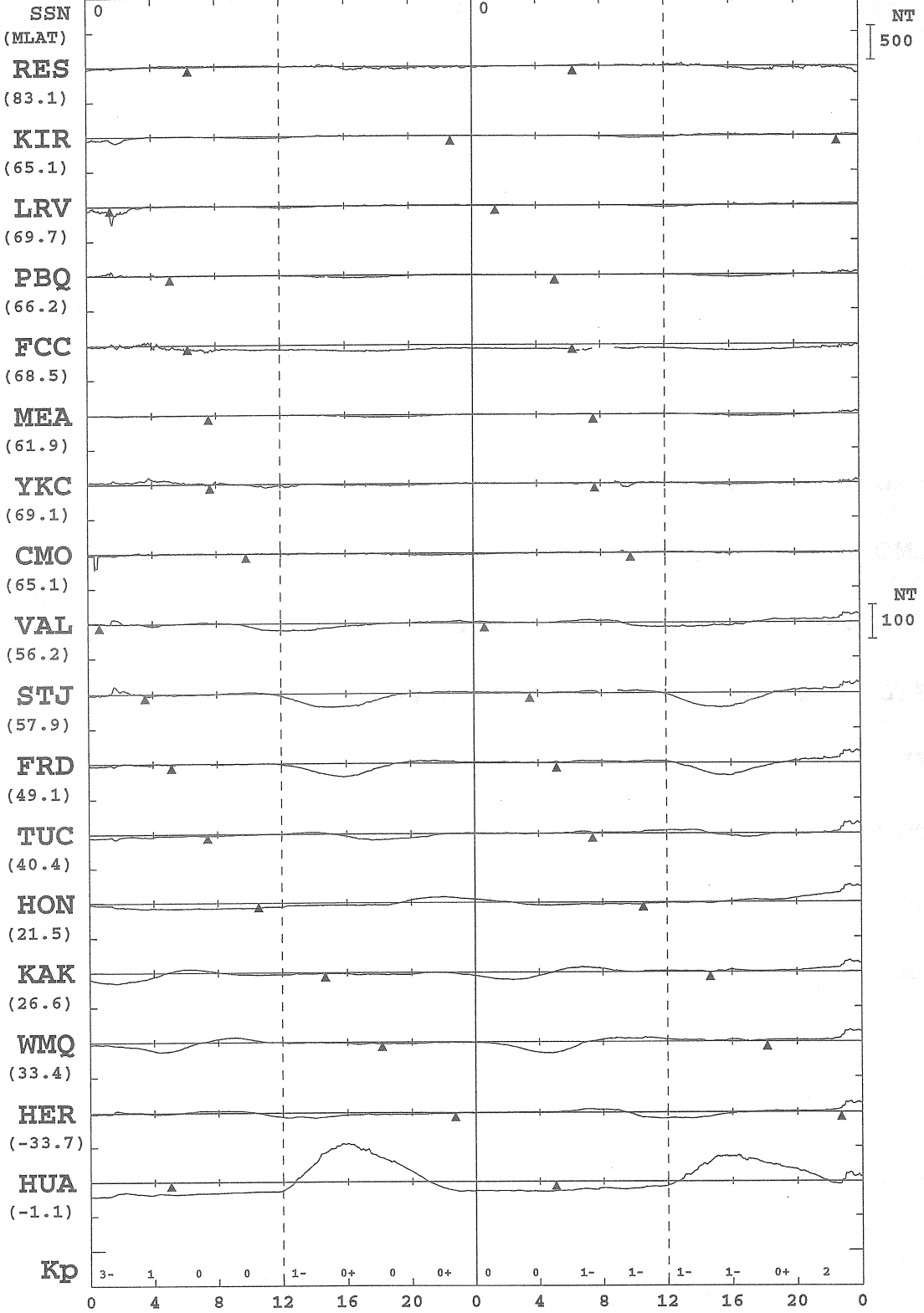
APR 6
(DAY 96)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

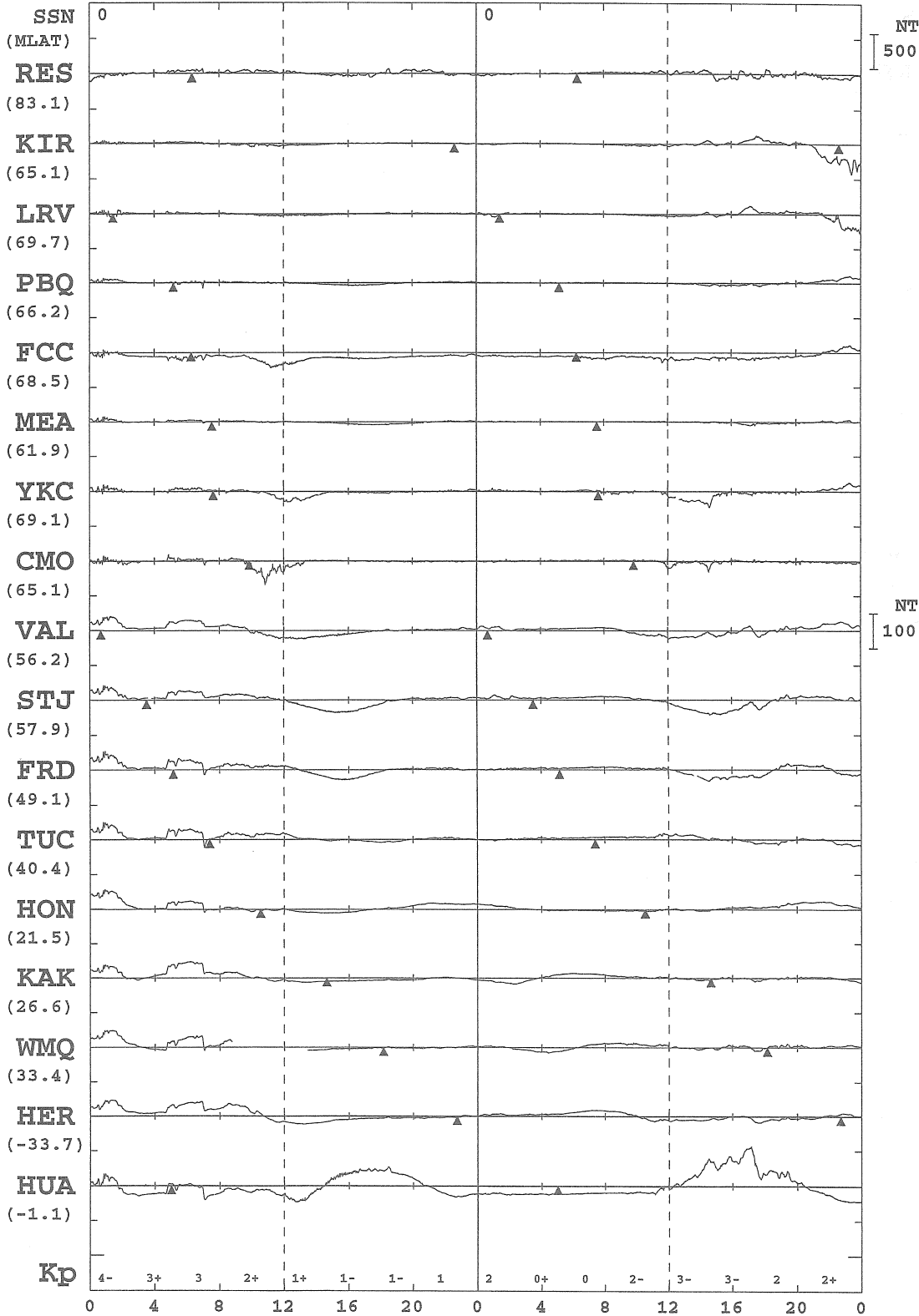


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



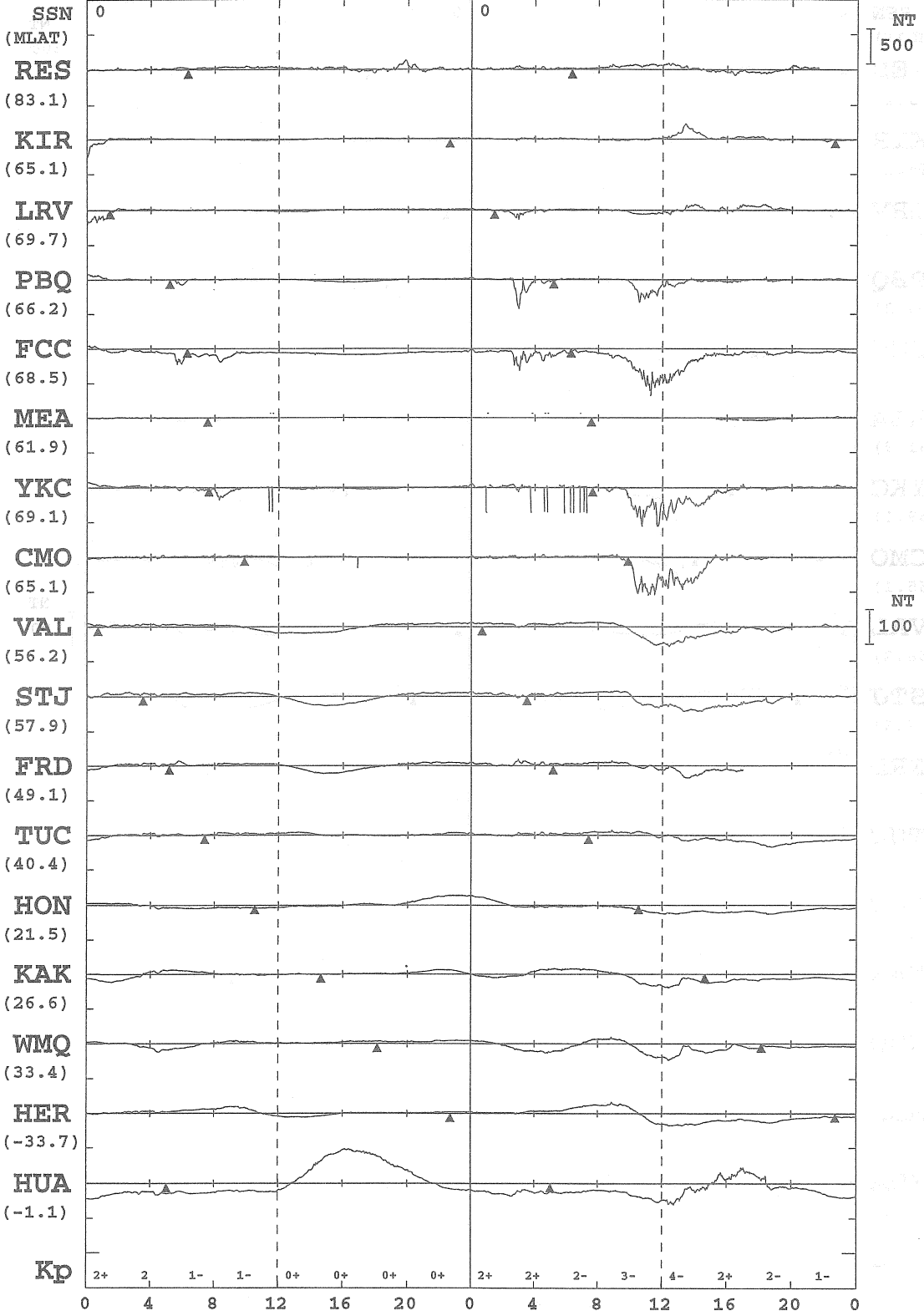
APR 9
(DAY 99)

APR 10
(DAY 100)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT LOCAL MIDNIGHT

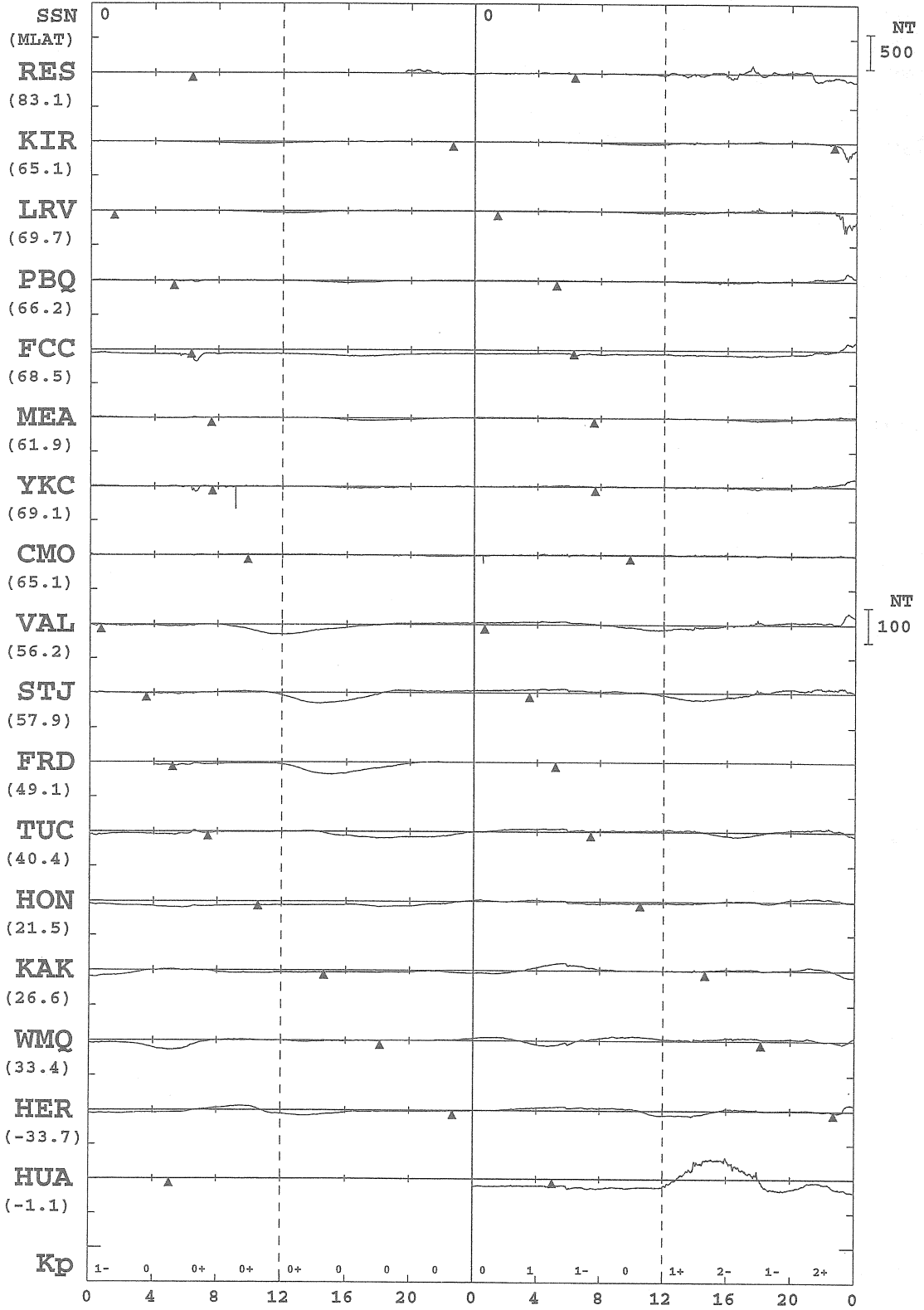


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

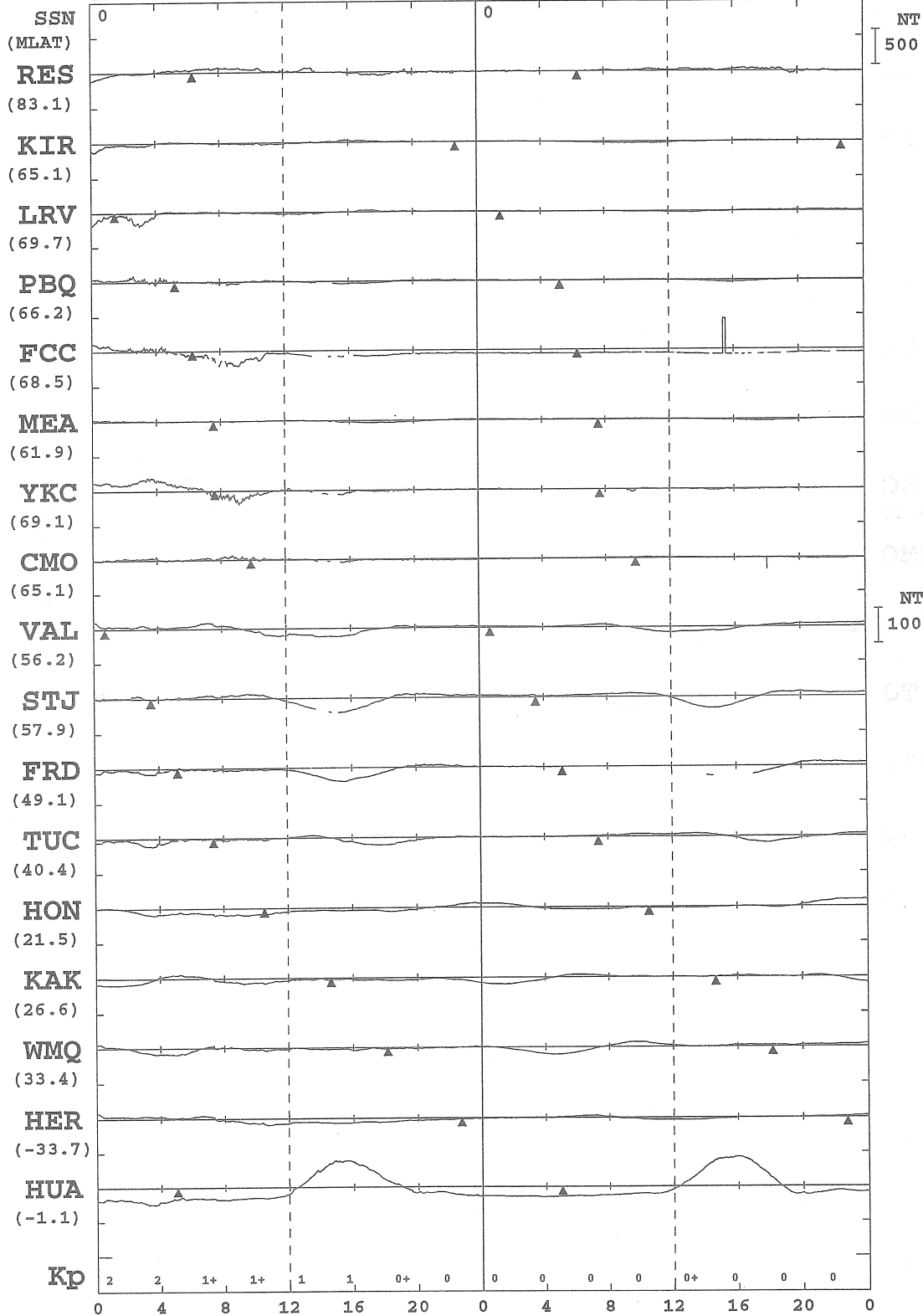


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

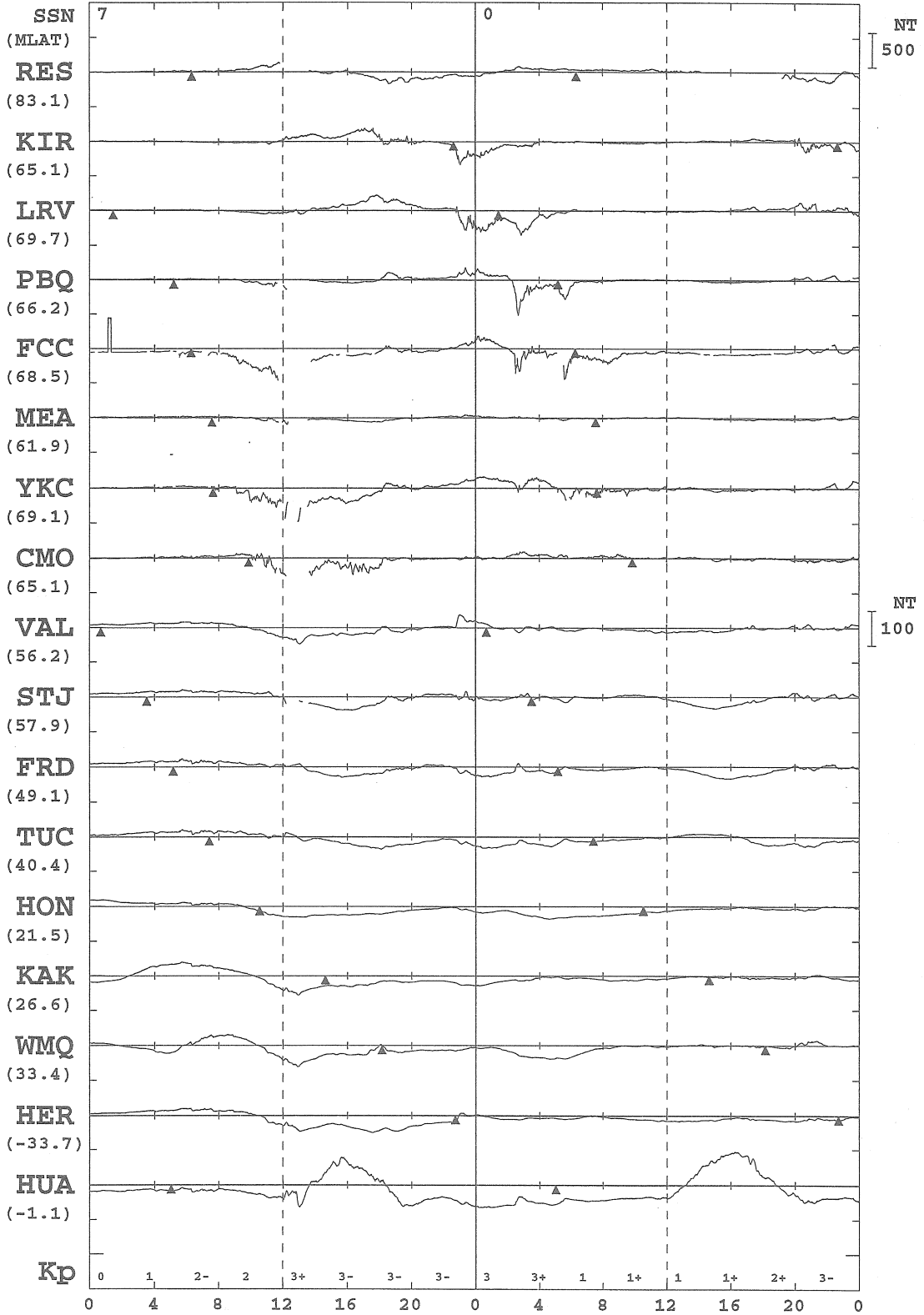


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



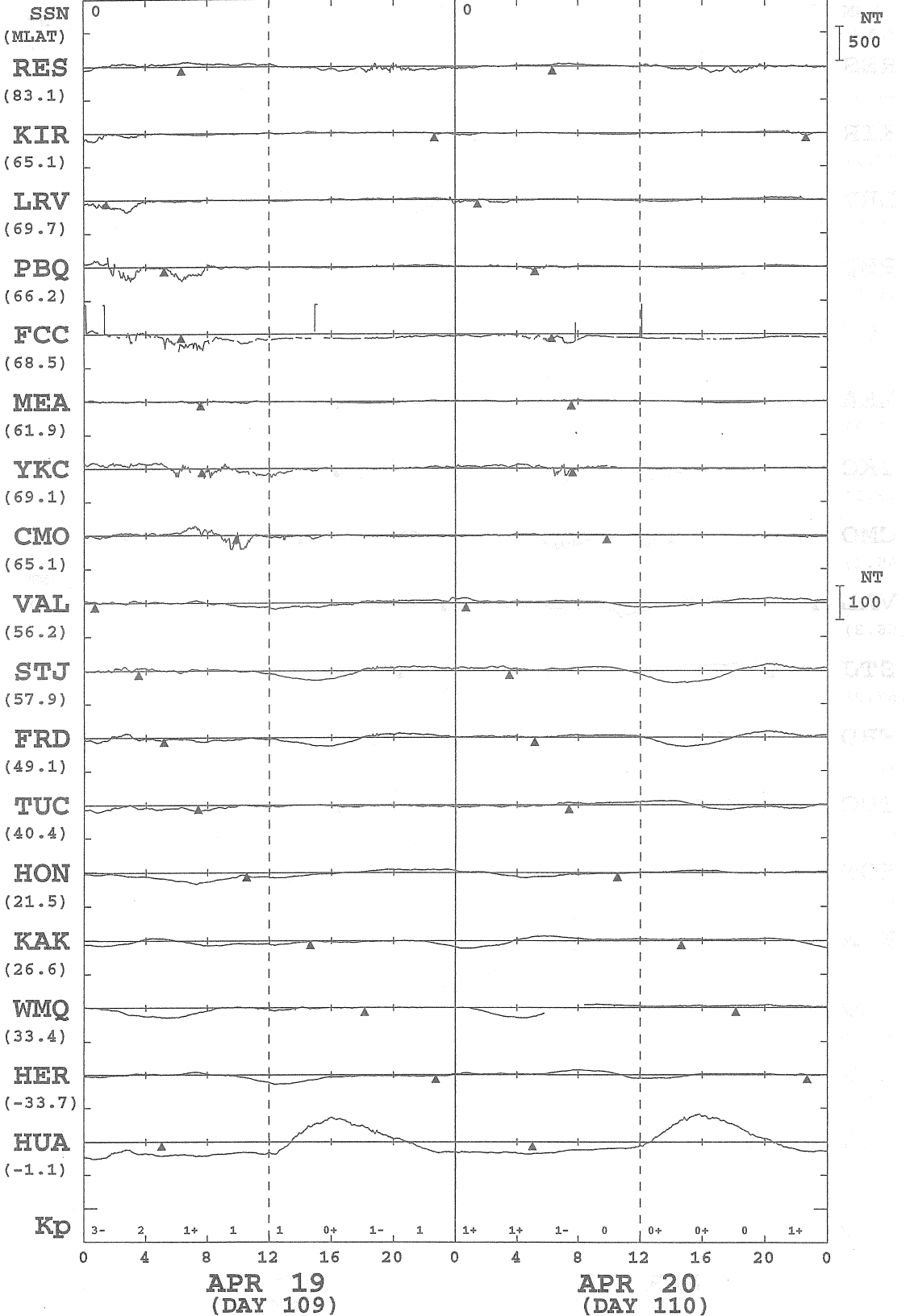
APR 17
(DAY 107)

APR 18
(DAY 108)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT Δ : LOCAL MIDNIGHT

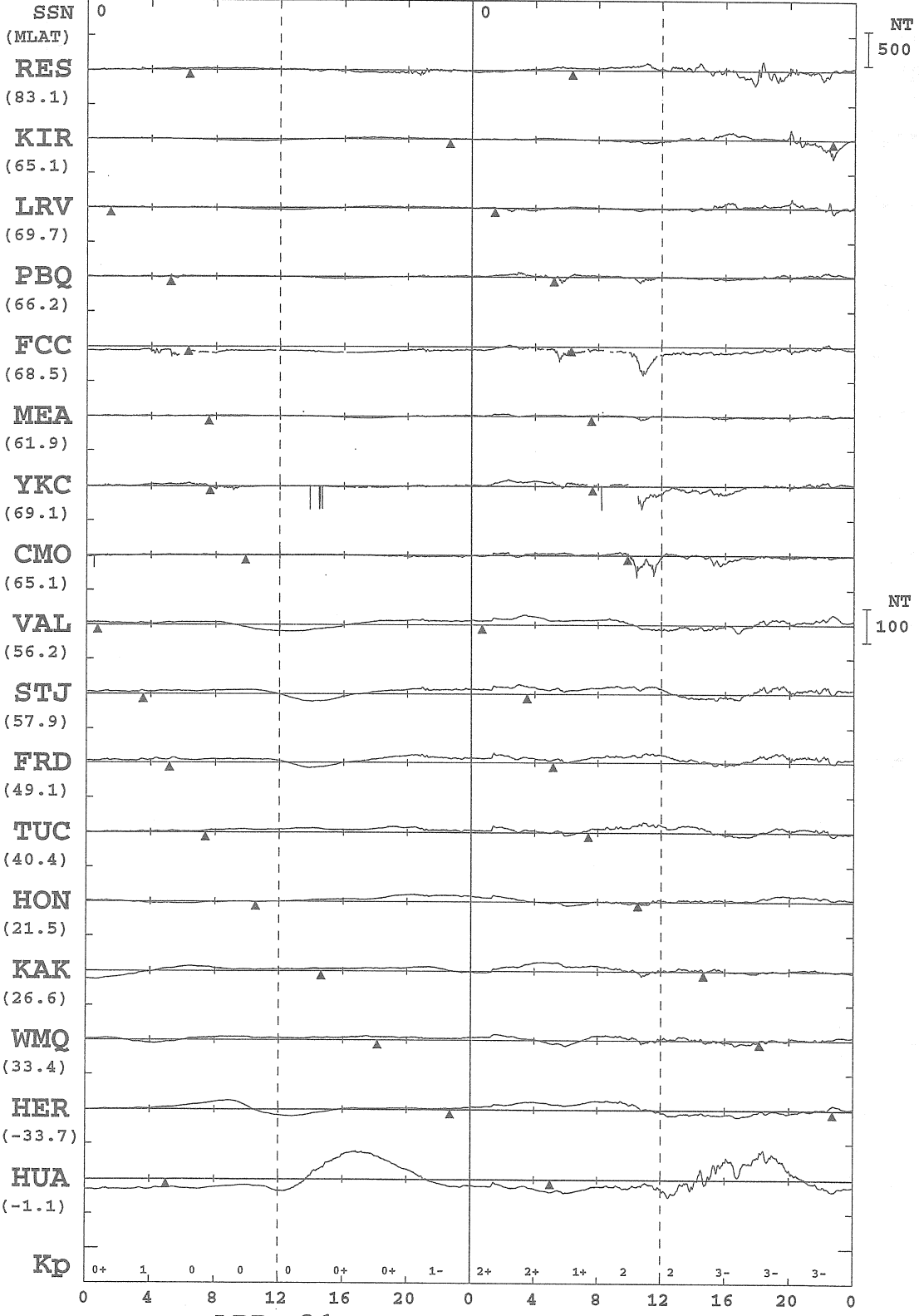


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

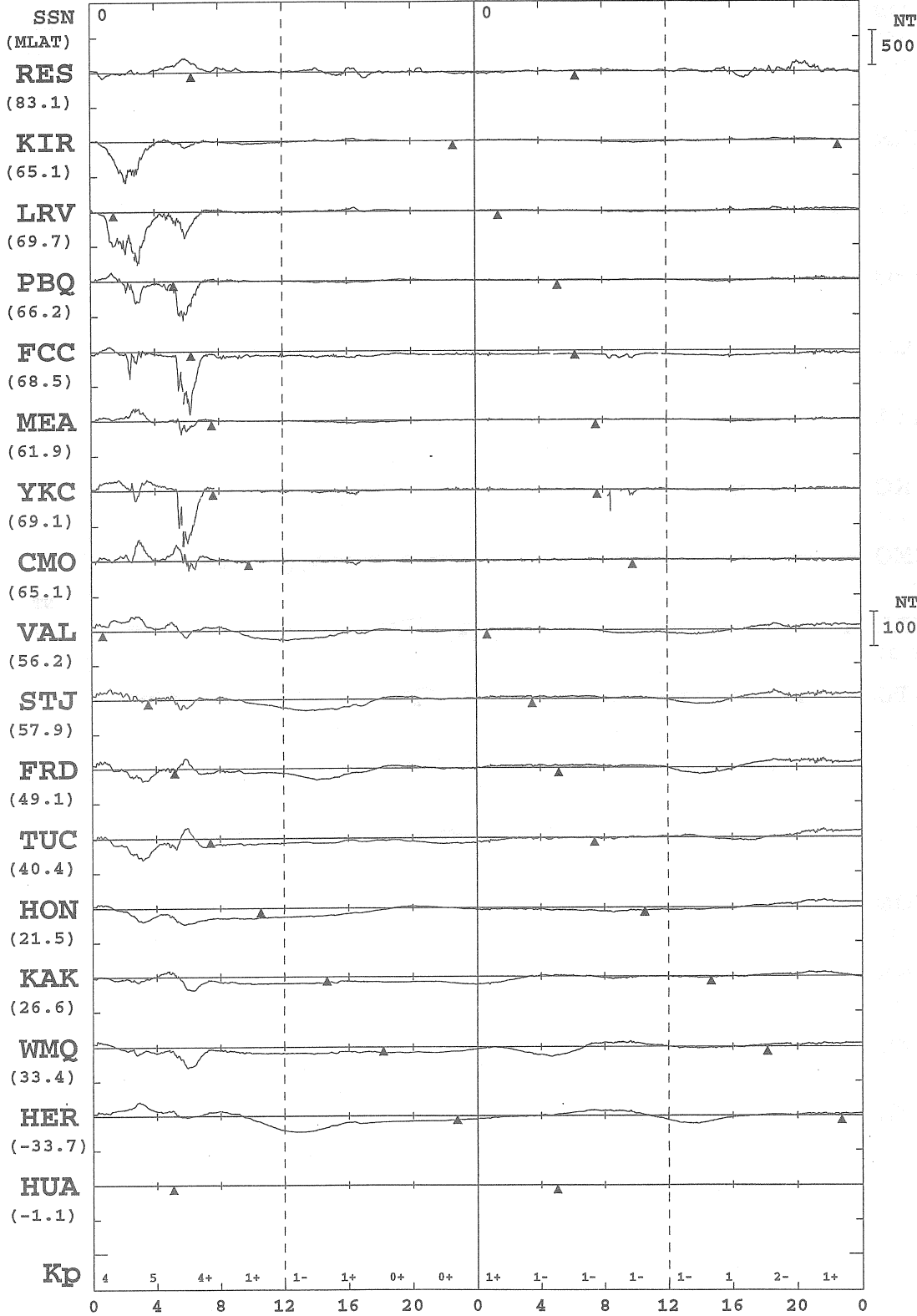


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



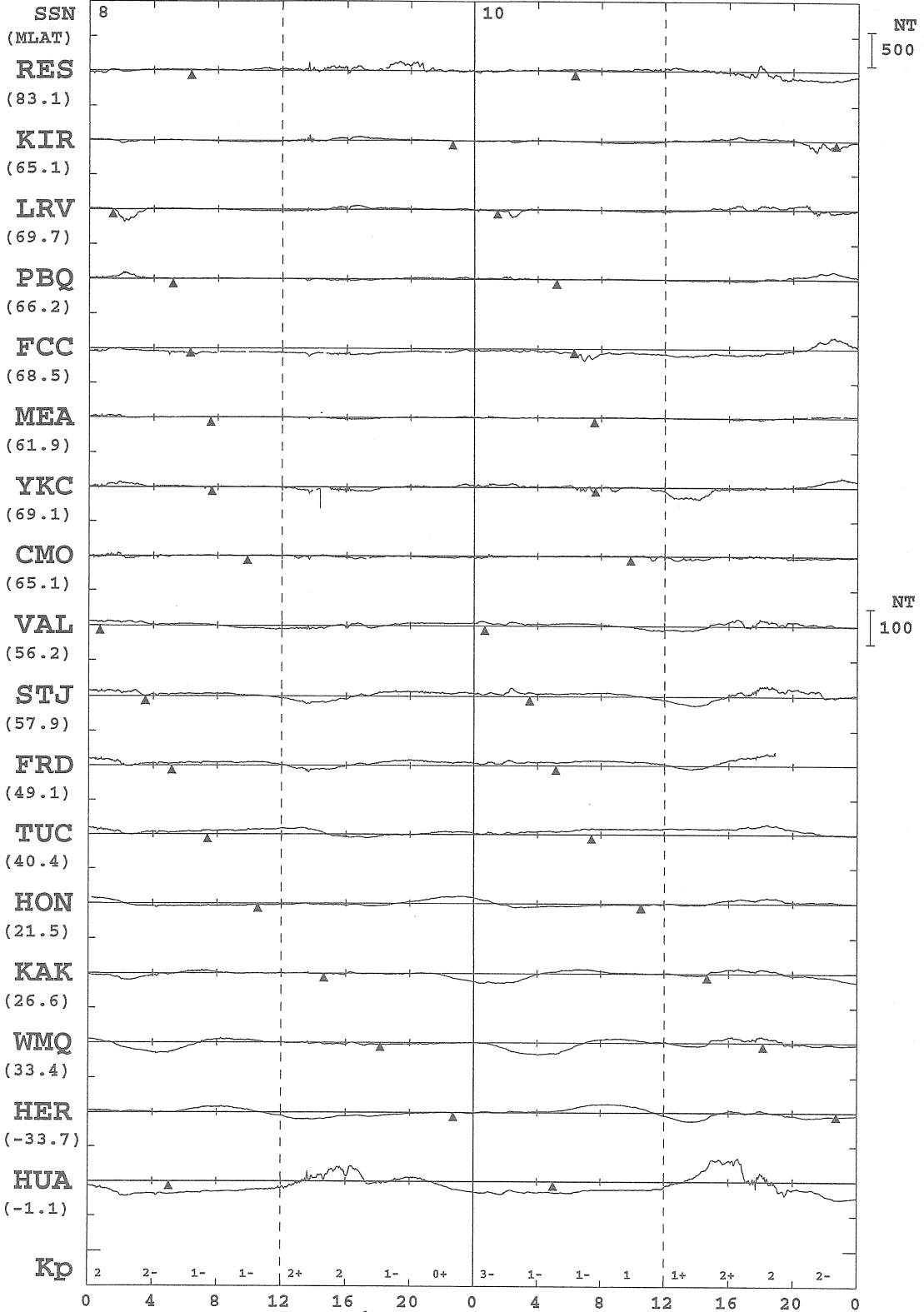
APR 23 (DAY 113) APR 24 (DAY 114)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



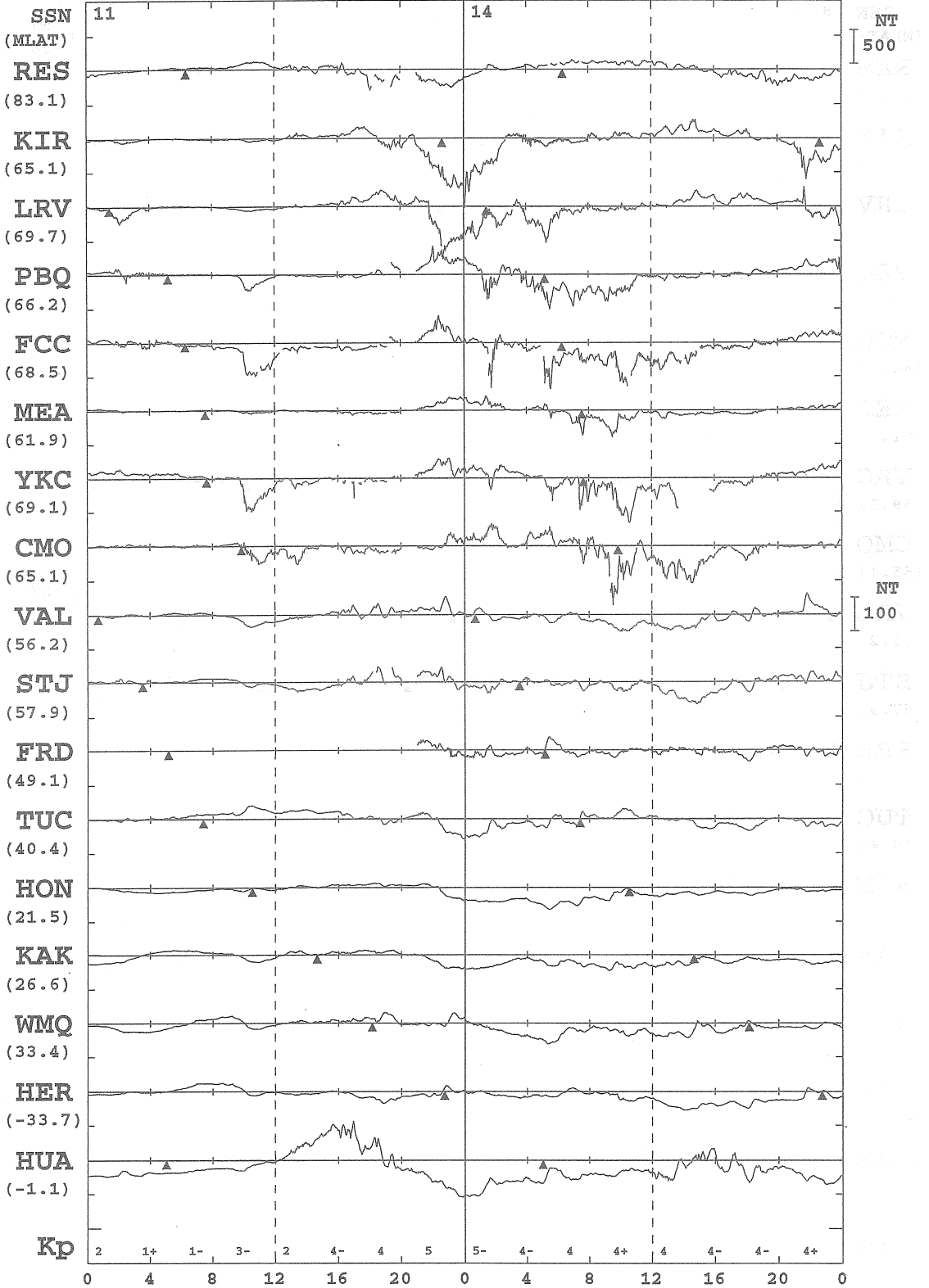
APR 25
(DAY 115)

APR 26
(DAY 116)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



APR 27
(DAY 117)

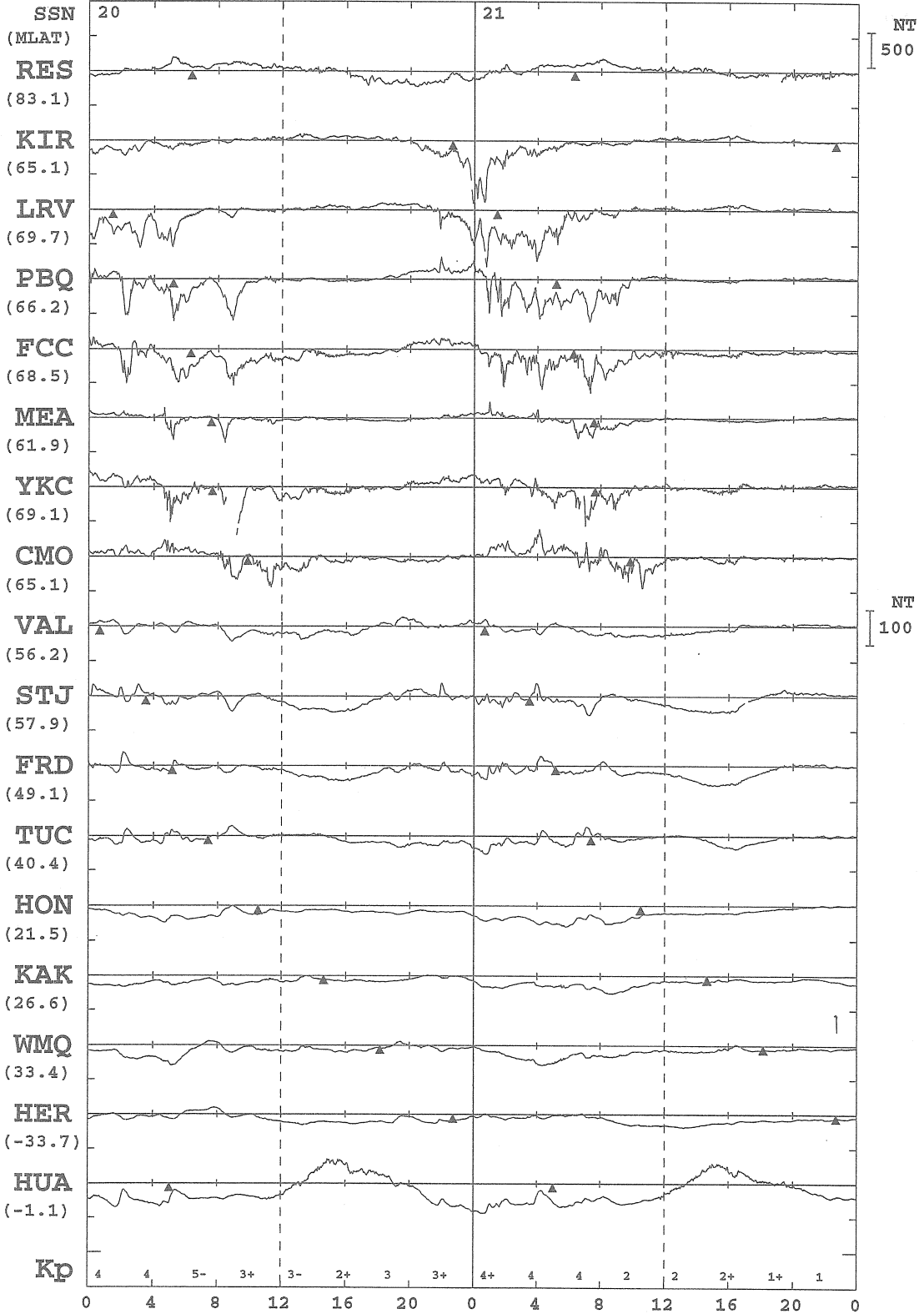
APR 28
(DAY 118)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



APR 29
(DAY 119)

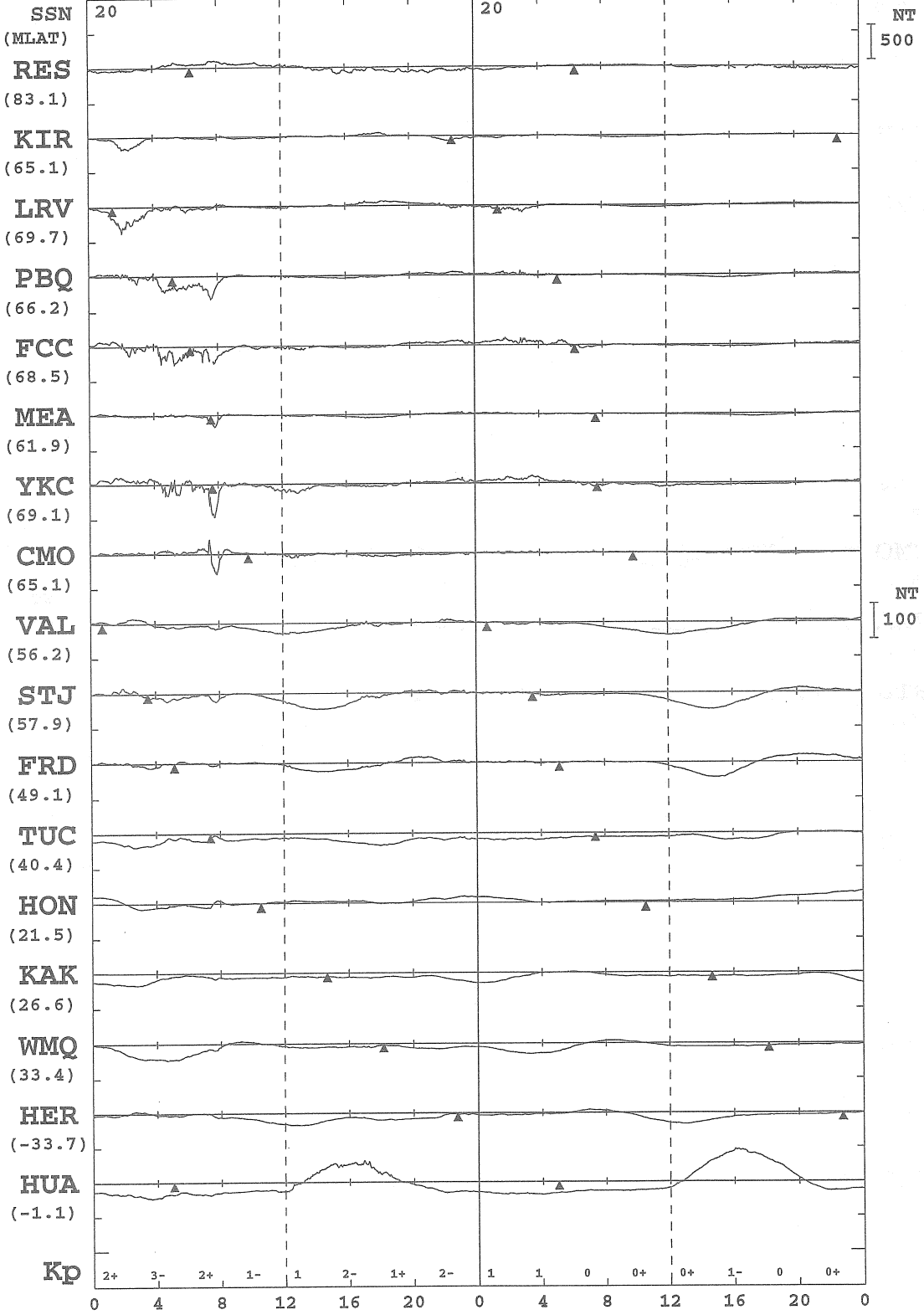
APR 30
(DAY 120)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAY 1
(DAY 121)

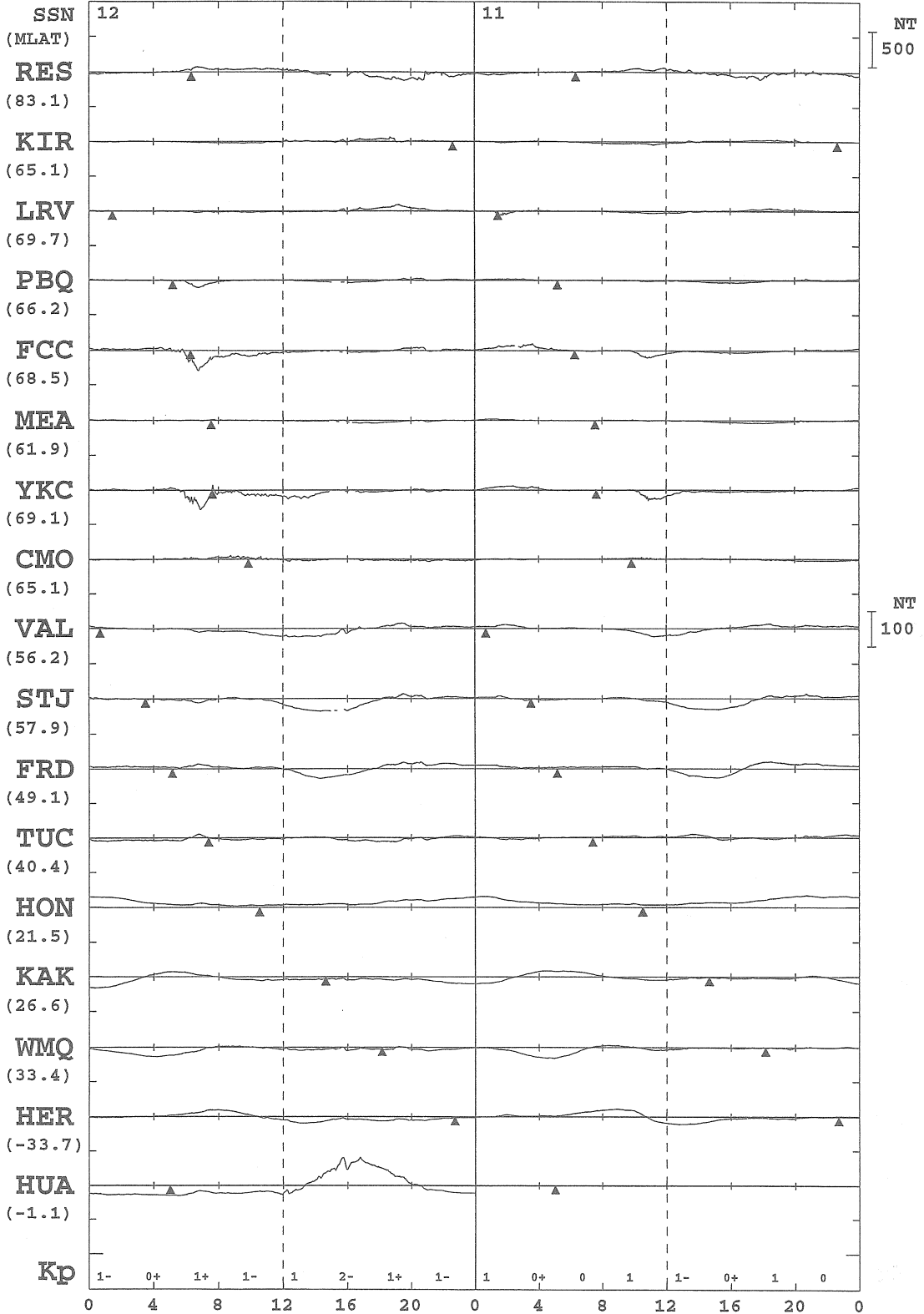
MAY 2
(DAY 122)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAY 3
(DAY 123)

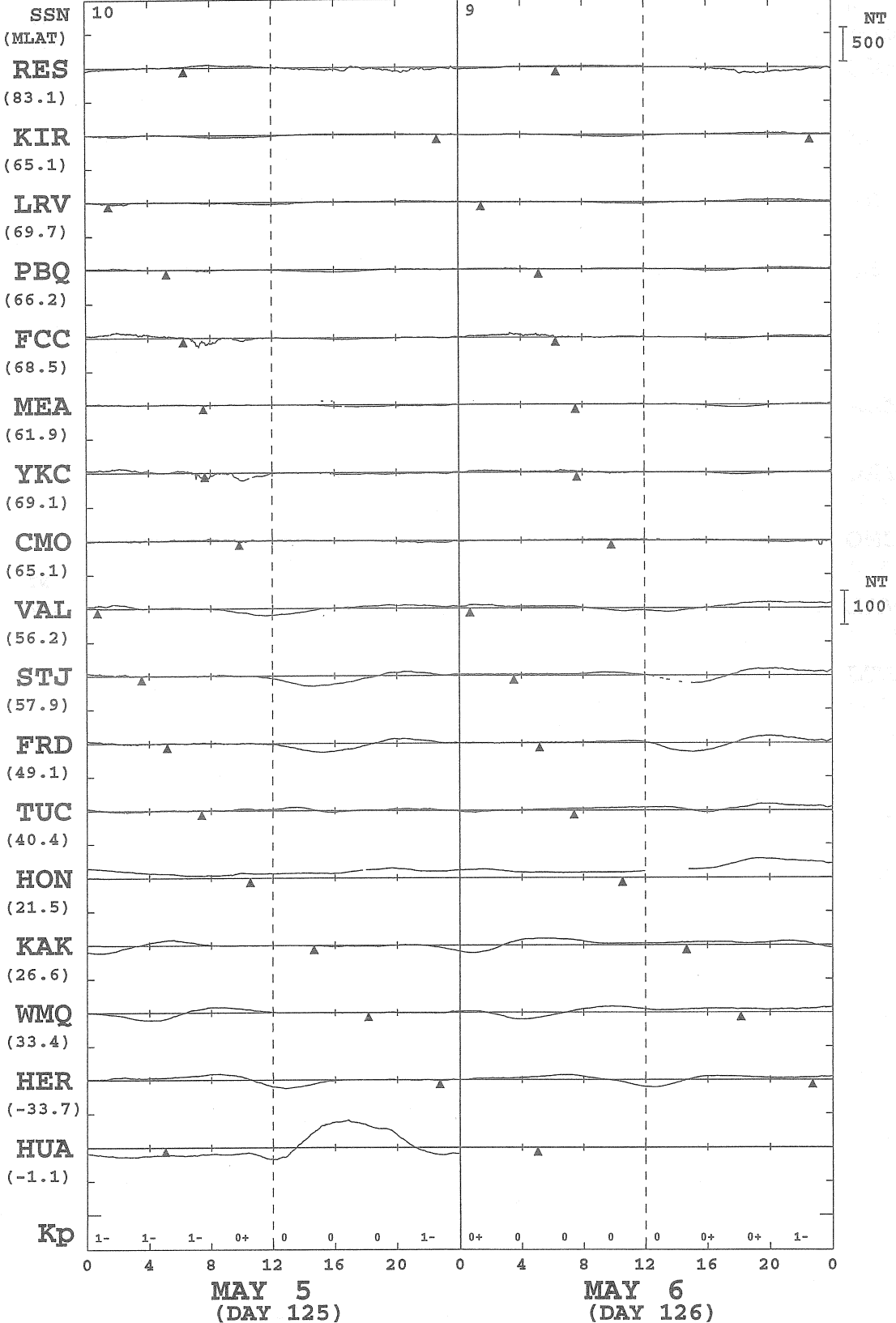
MAY 4
(DAY 124)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

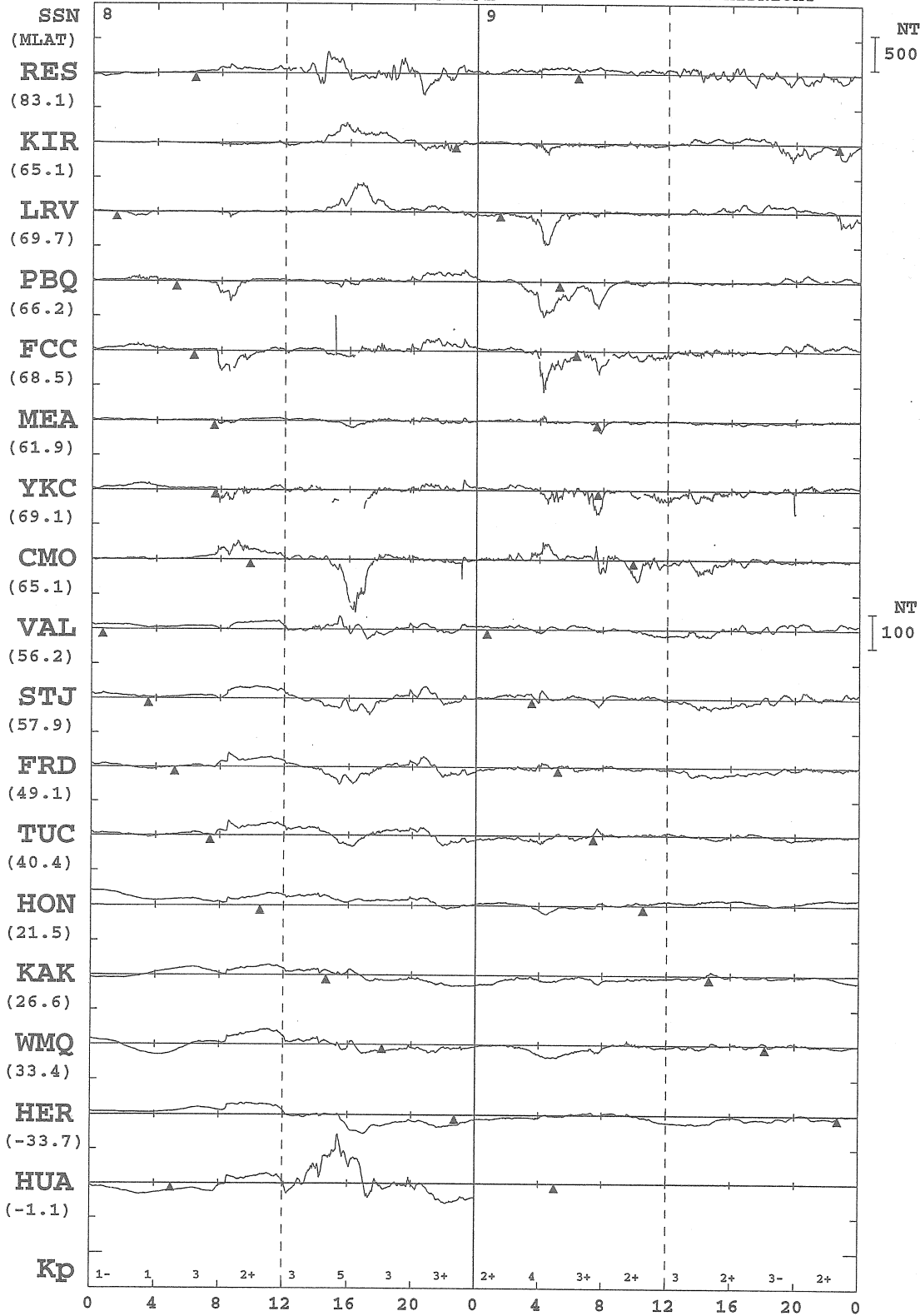


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

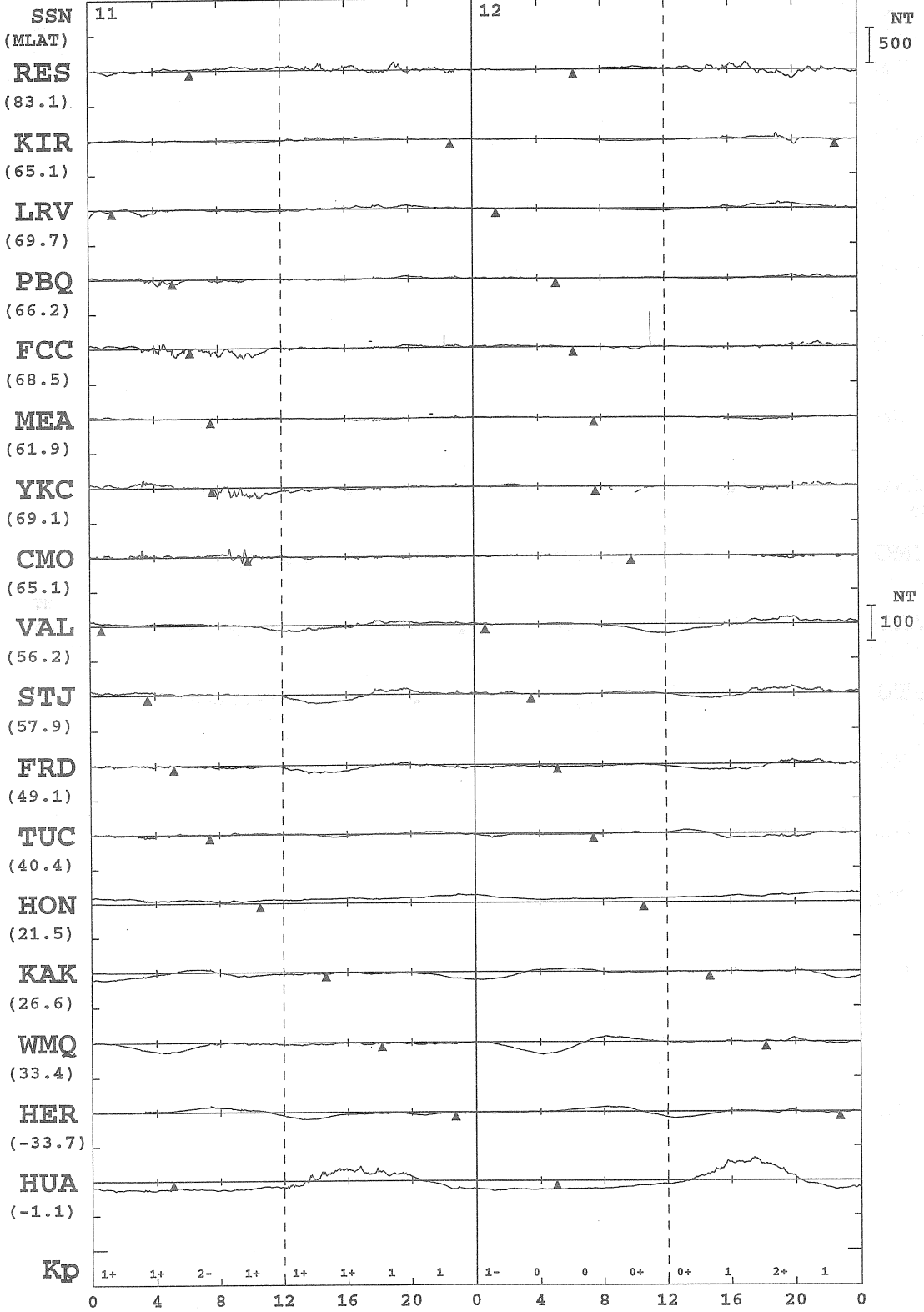


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAY 9
(DAY 129)

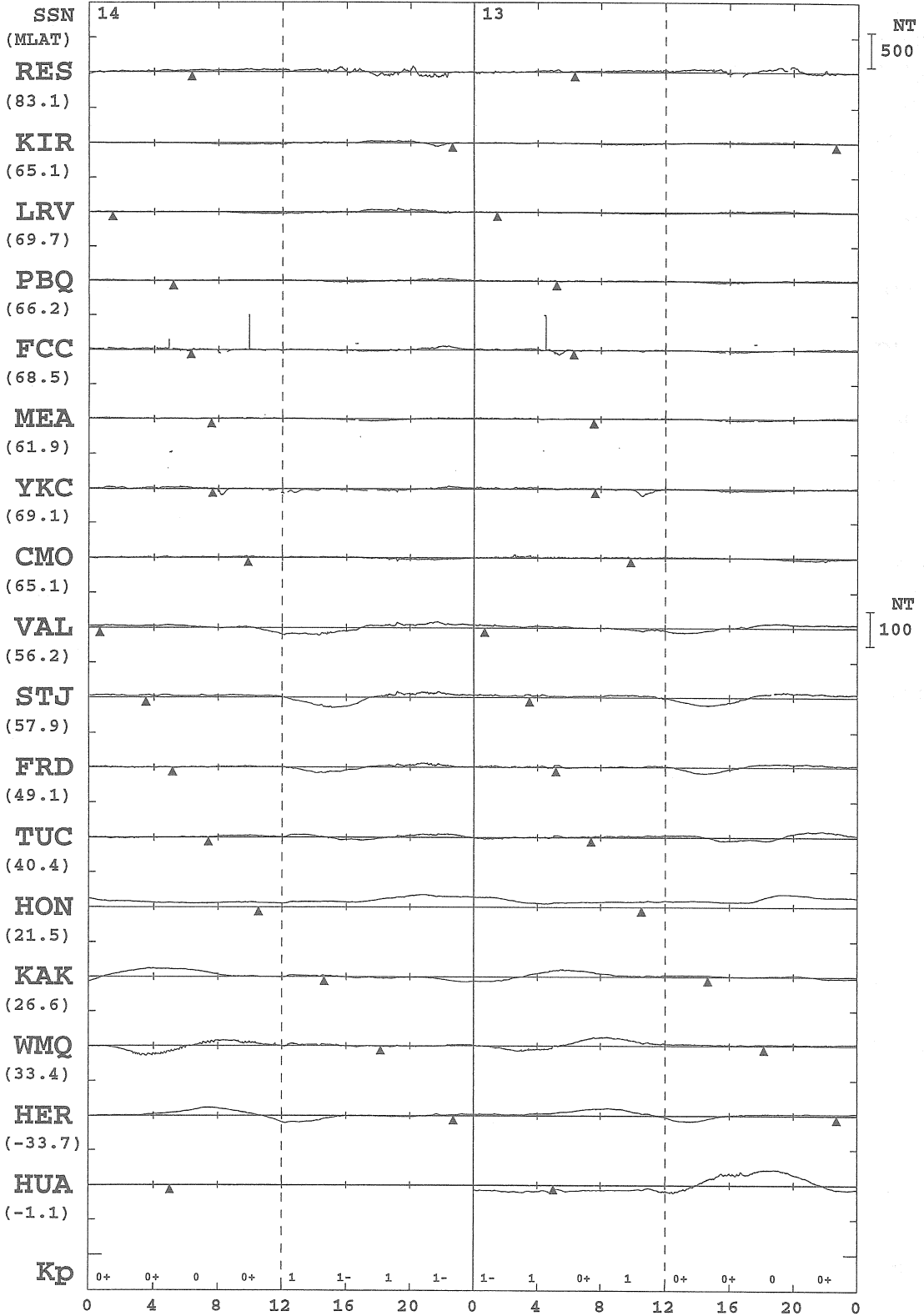
MAY 10
(DAY 130)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



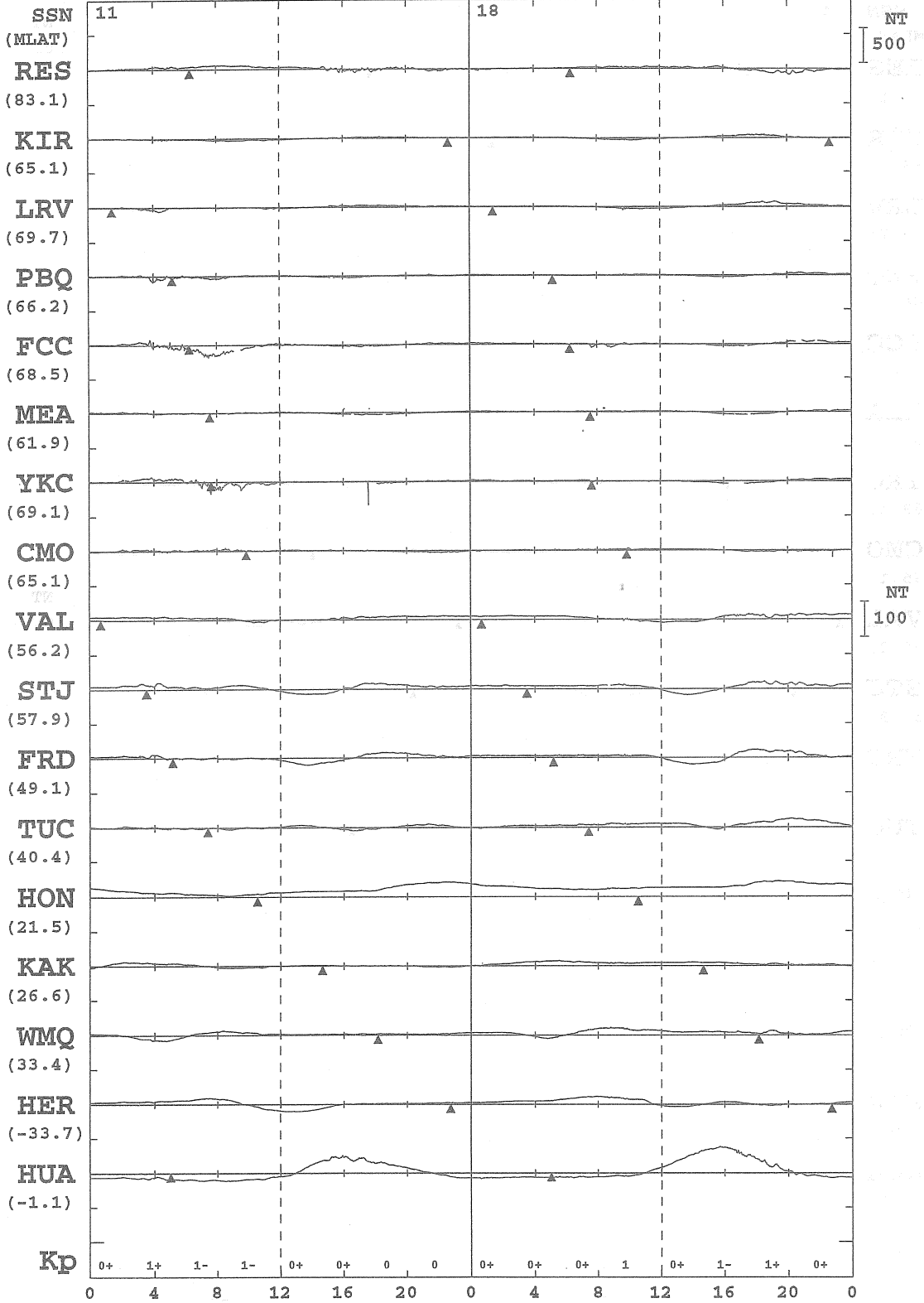
MAY 11
(DAY 131)

MAY 12
(DAY 132)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT Δ : LOCAL MIDNIGHT

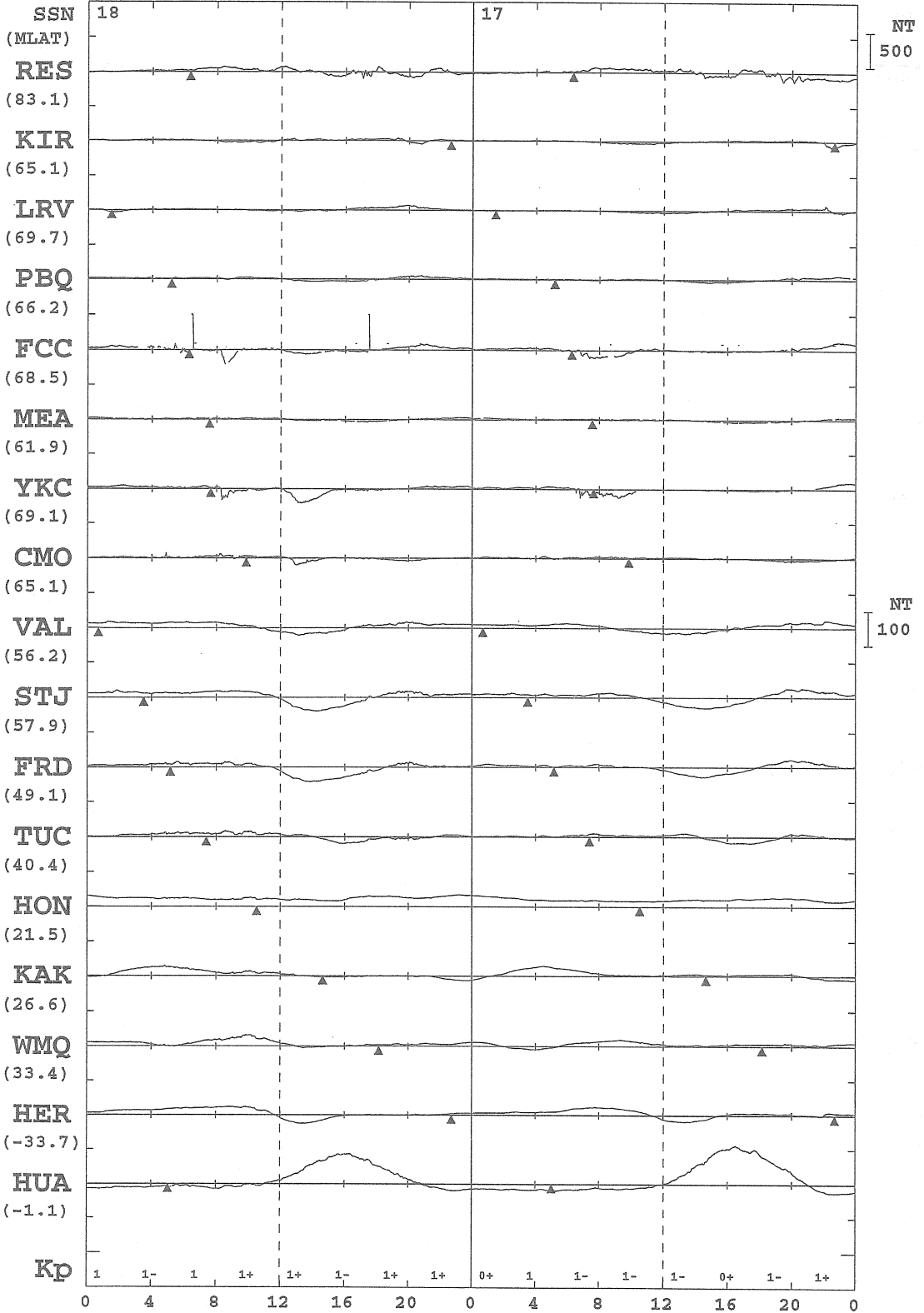


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAY 15
(DAY 135)

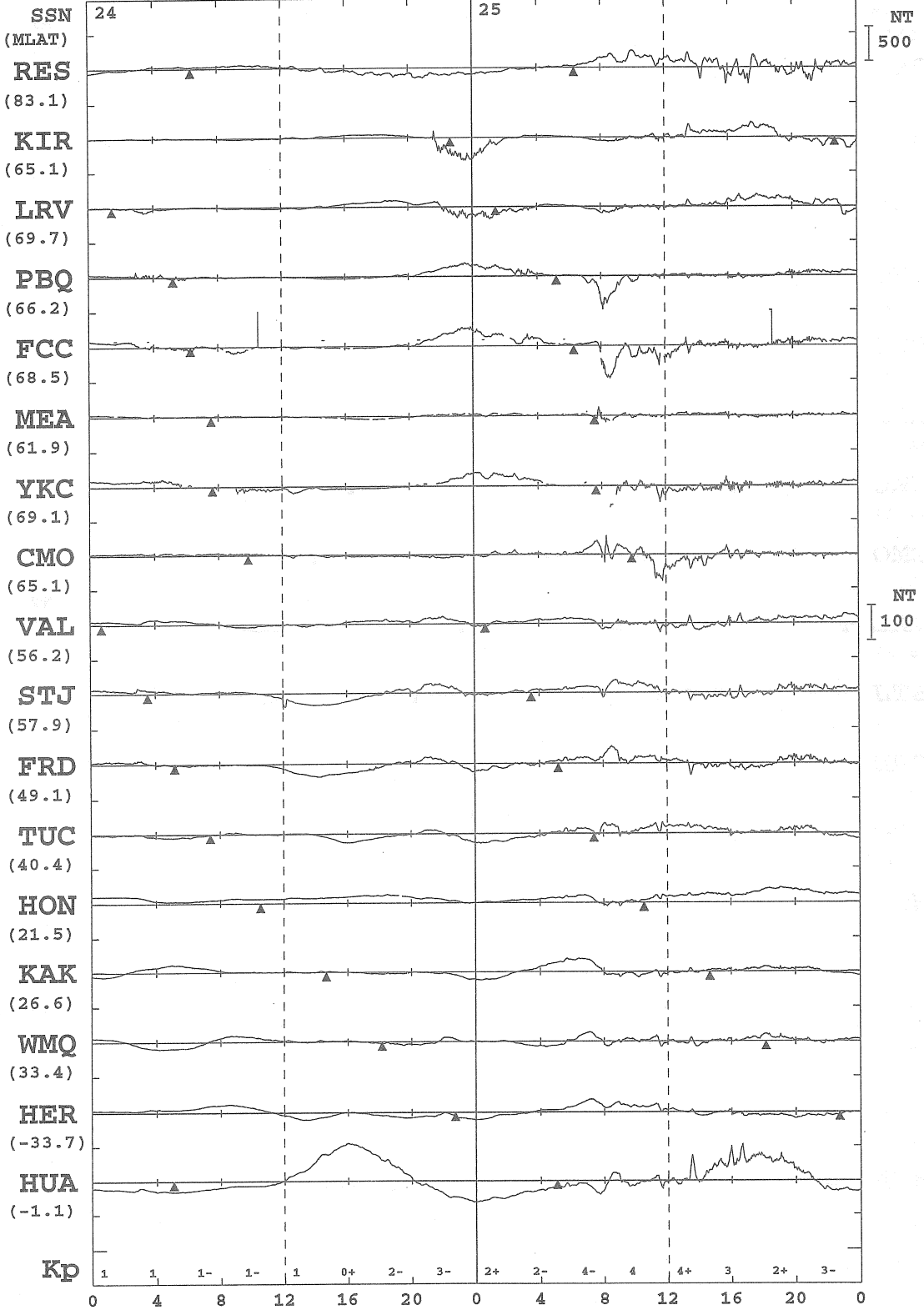
MAY 16
(DAY 136)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



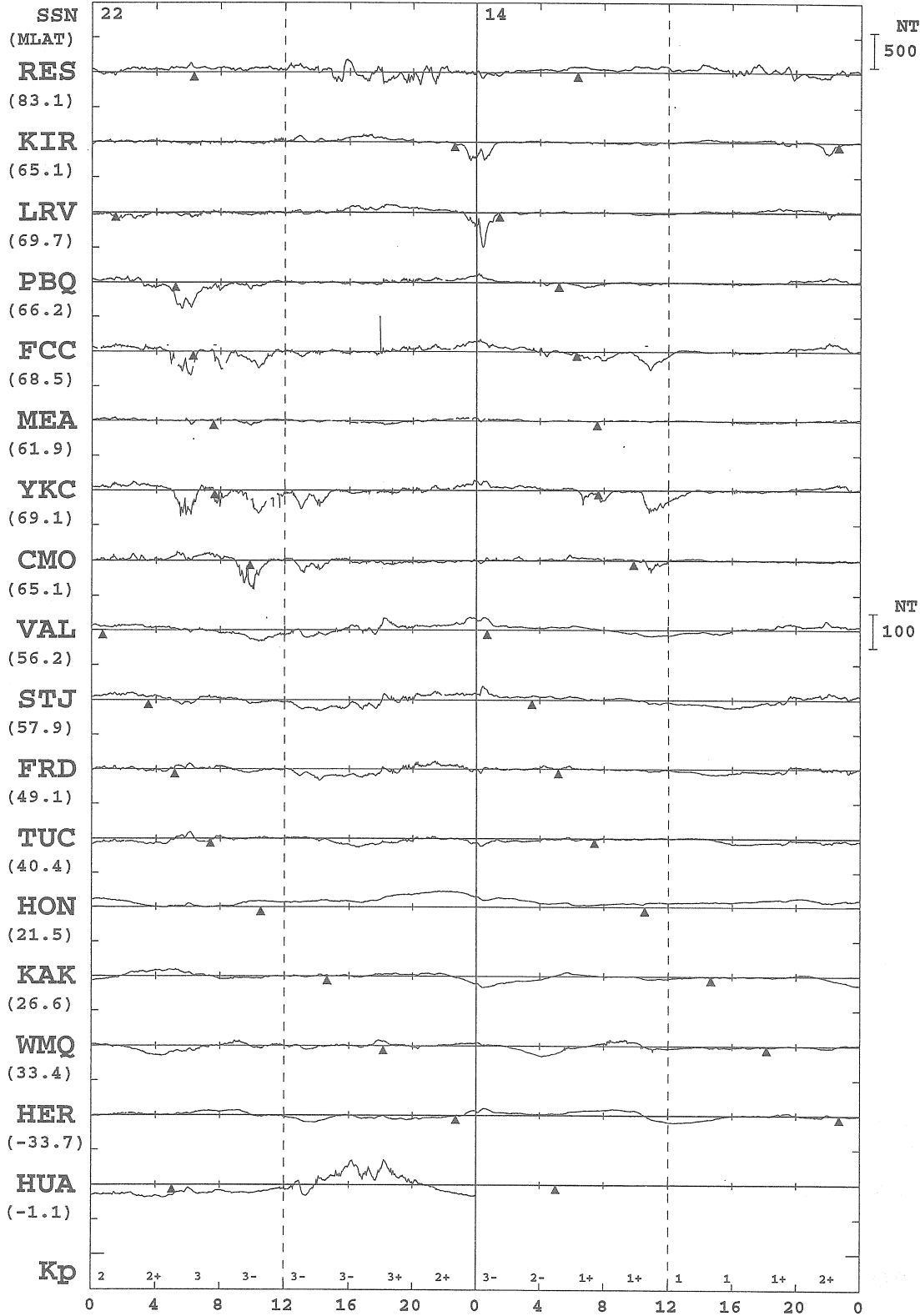
MAY 17
(DAY 137)

MAY 18
(DAY 138)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



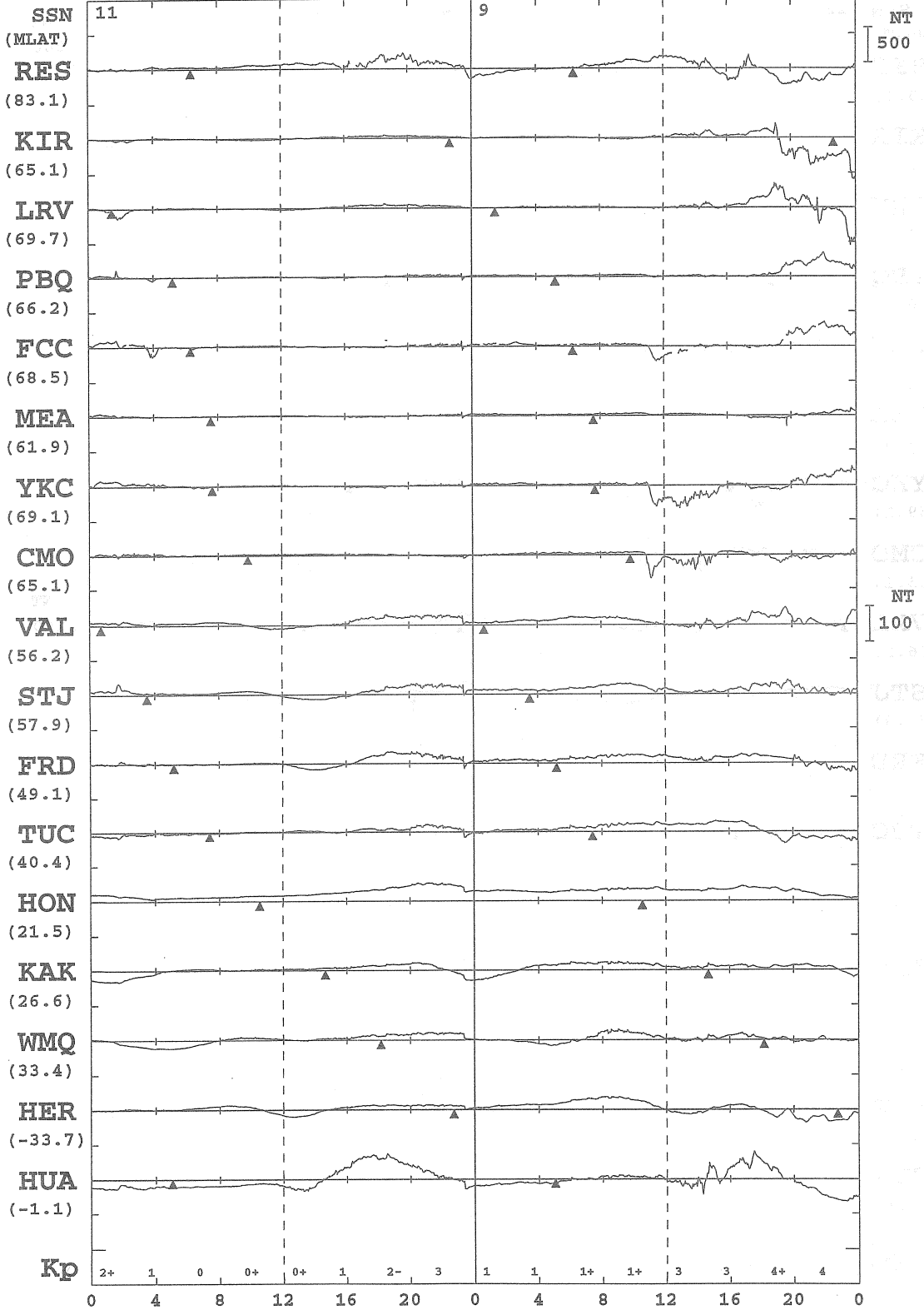
MAY 19
(DAY 139)

MAY 20
(DAY 140)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

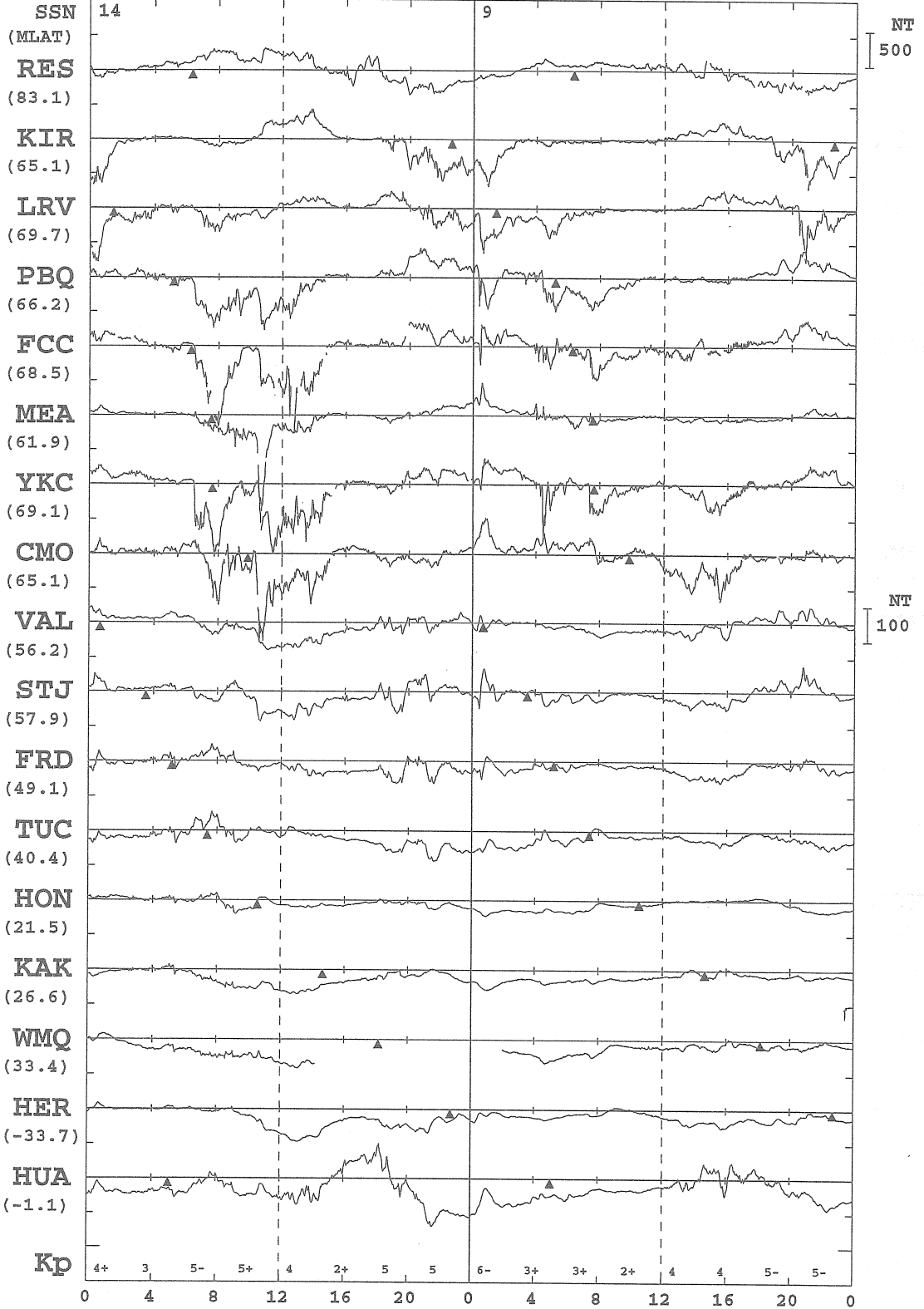


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



MAY 23
(DAY 143)

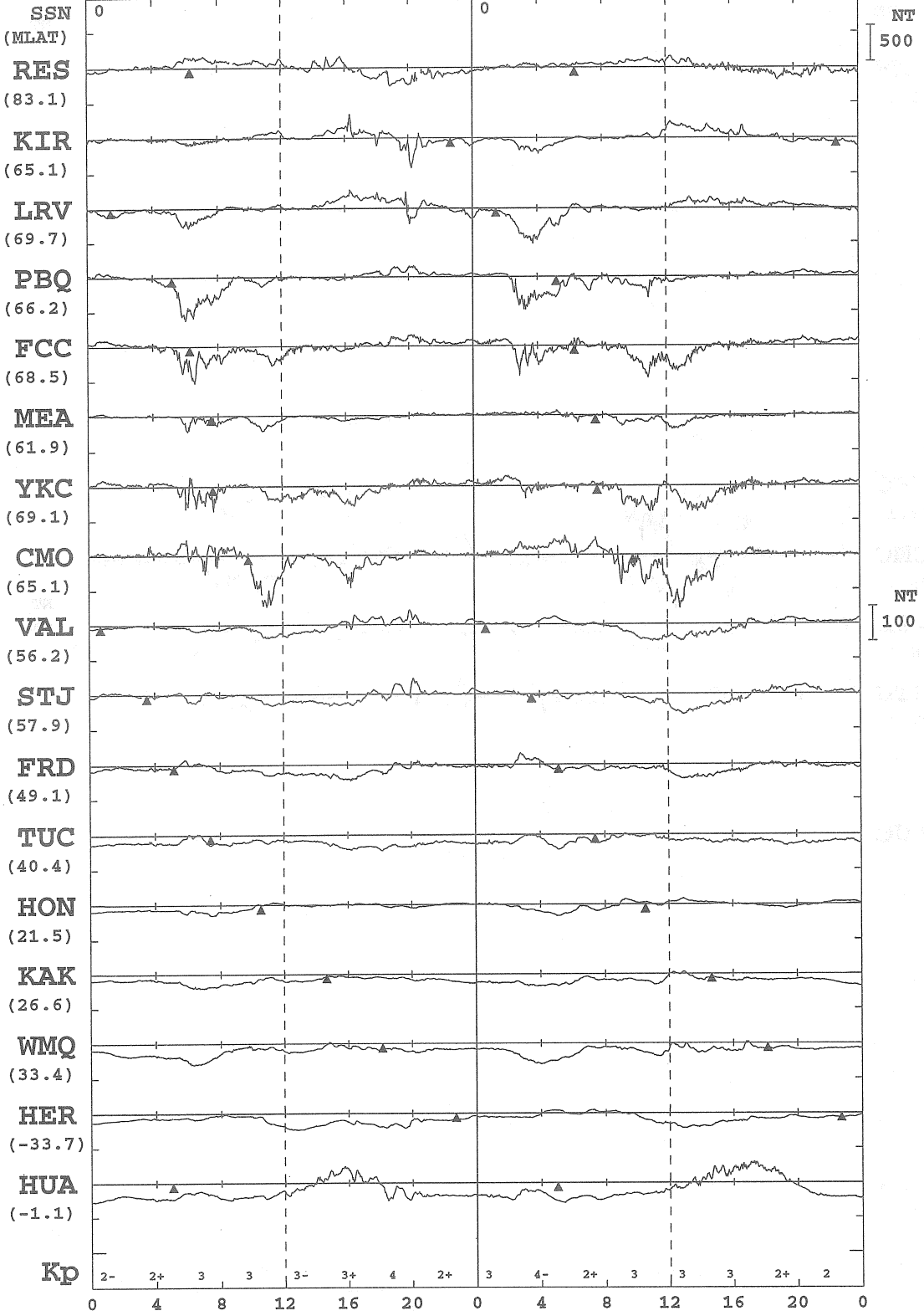
MAY 24
(DAY 144)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

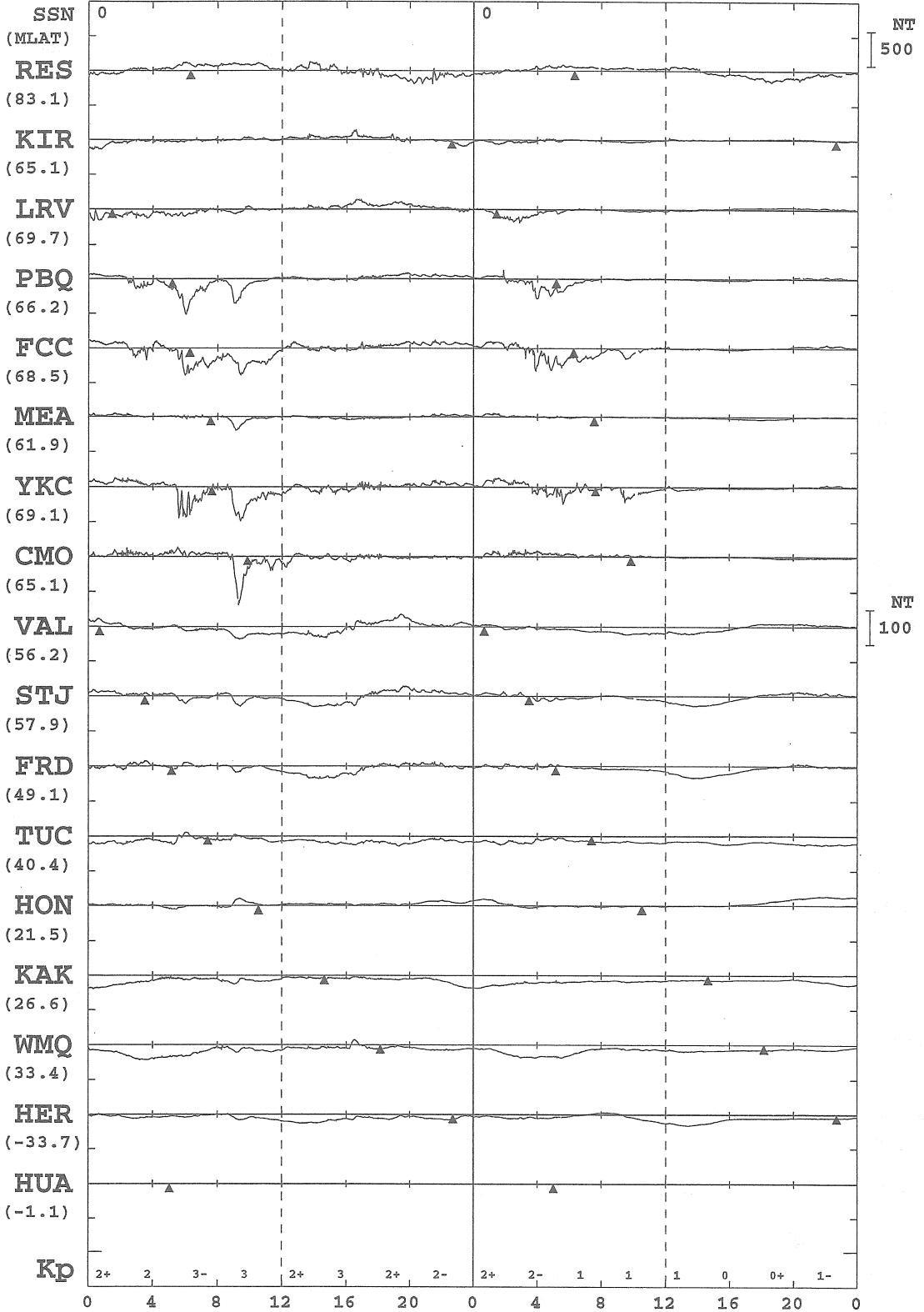


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

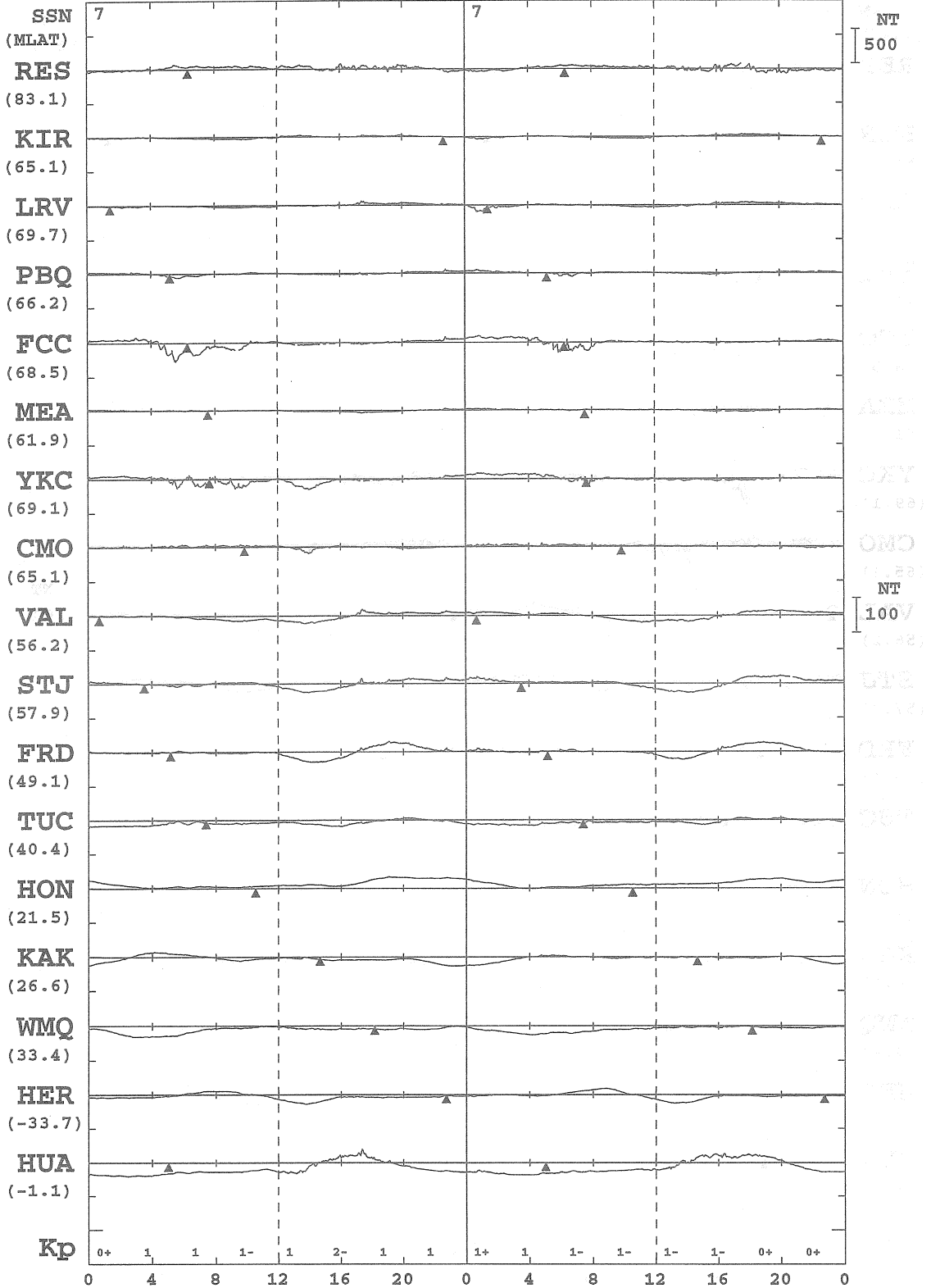
▲ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



MAY 29
(DAY 149)

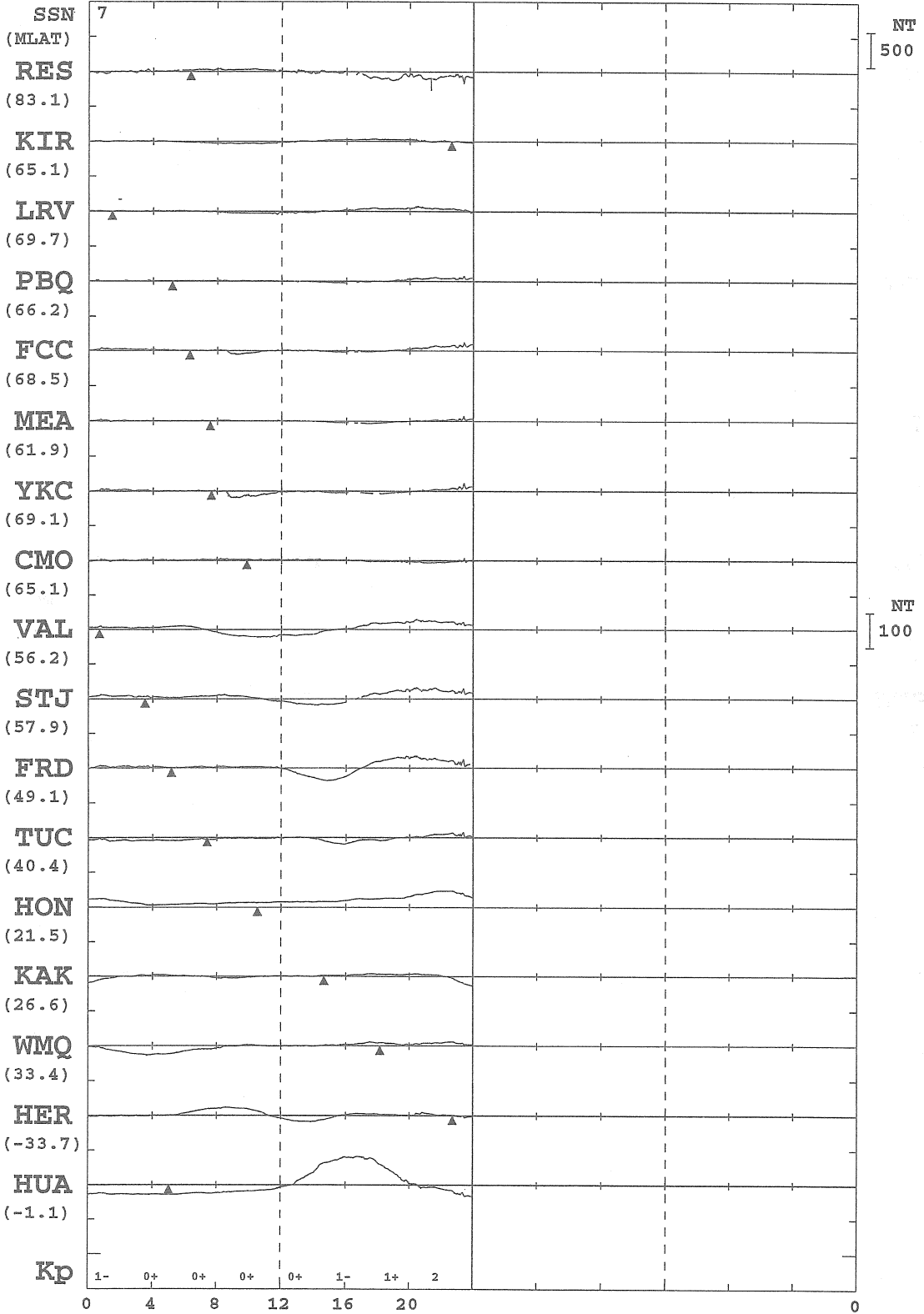
MAY 30
(DAY 150)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

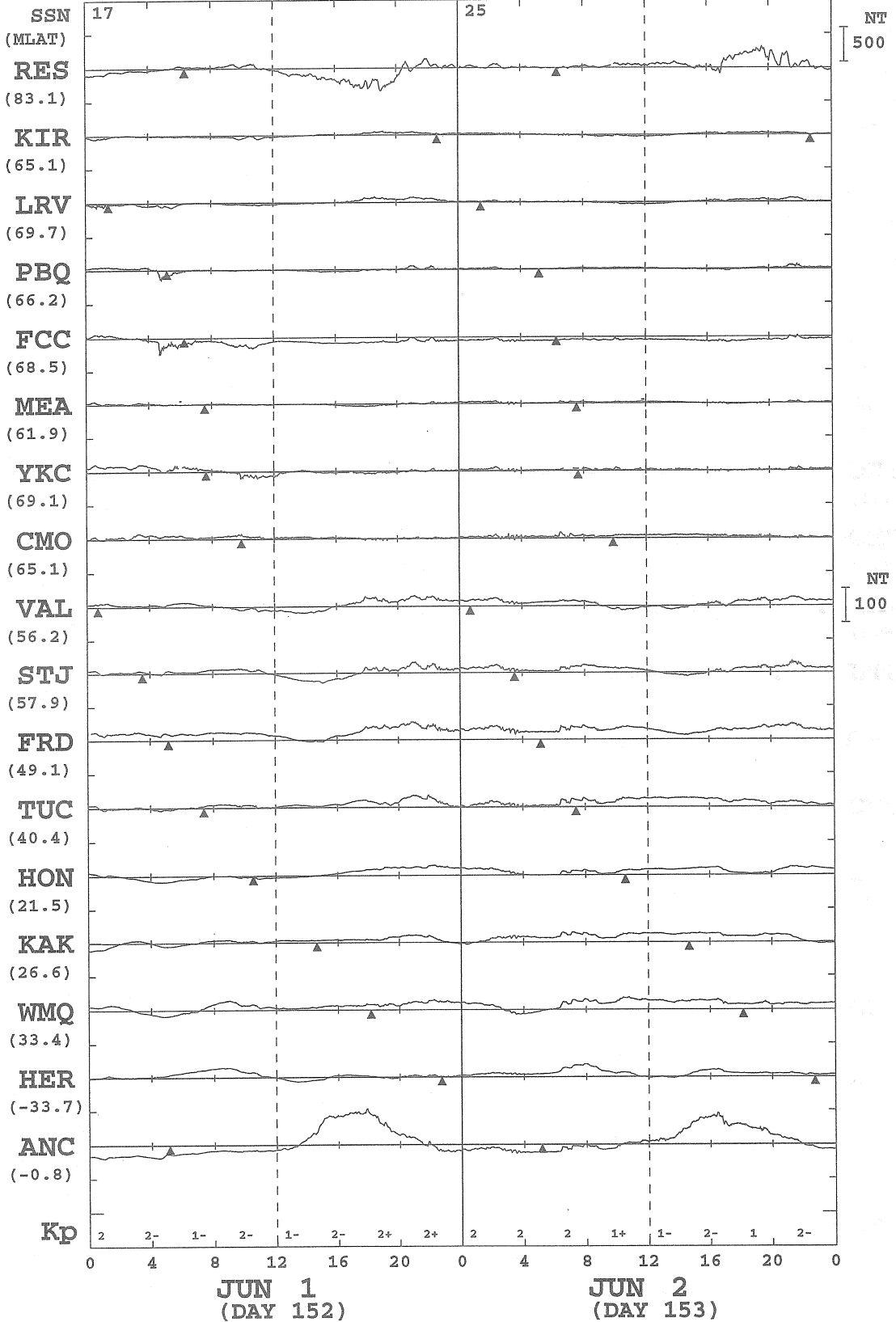


MAY 31
(DAY 151)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

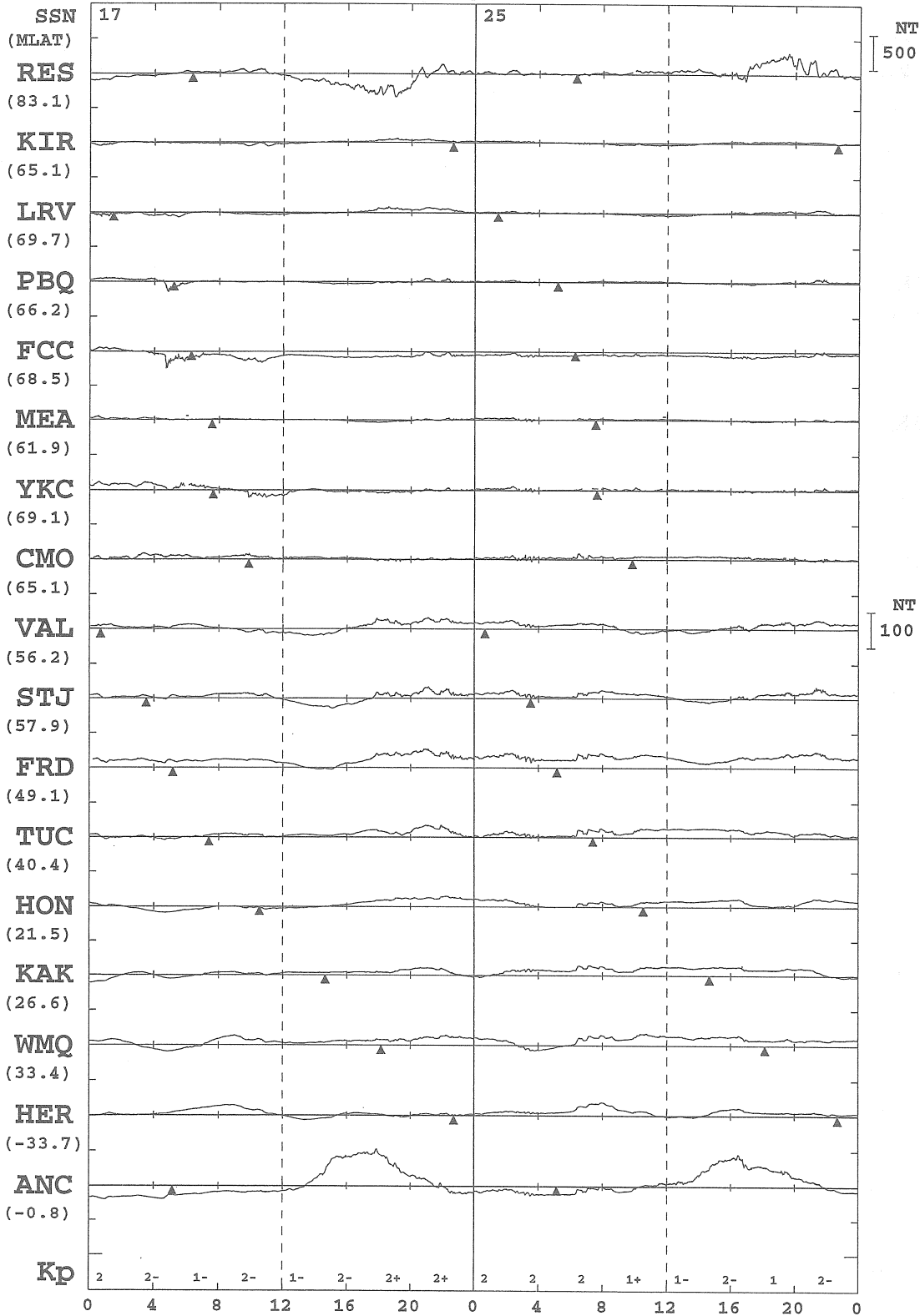


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

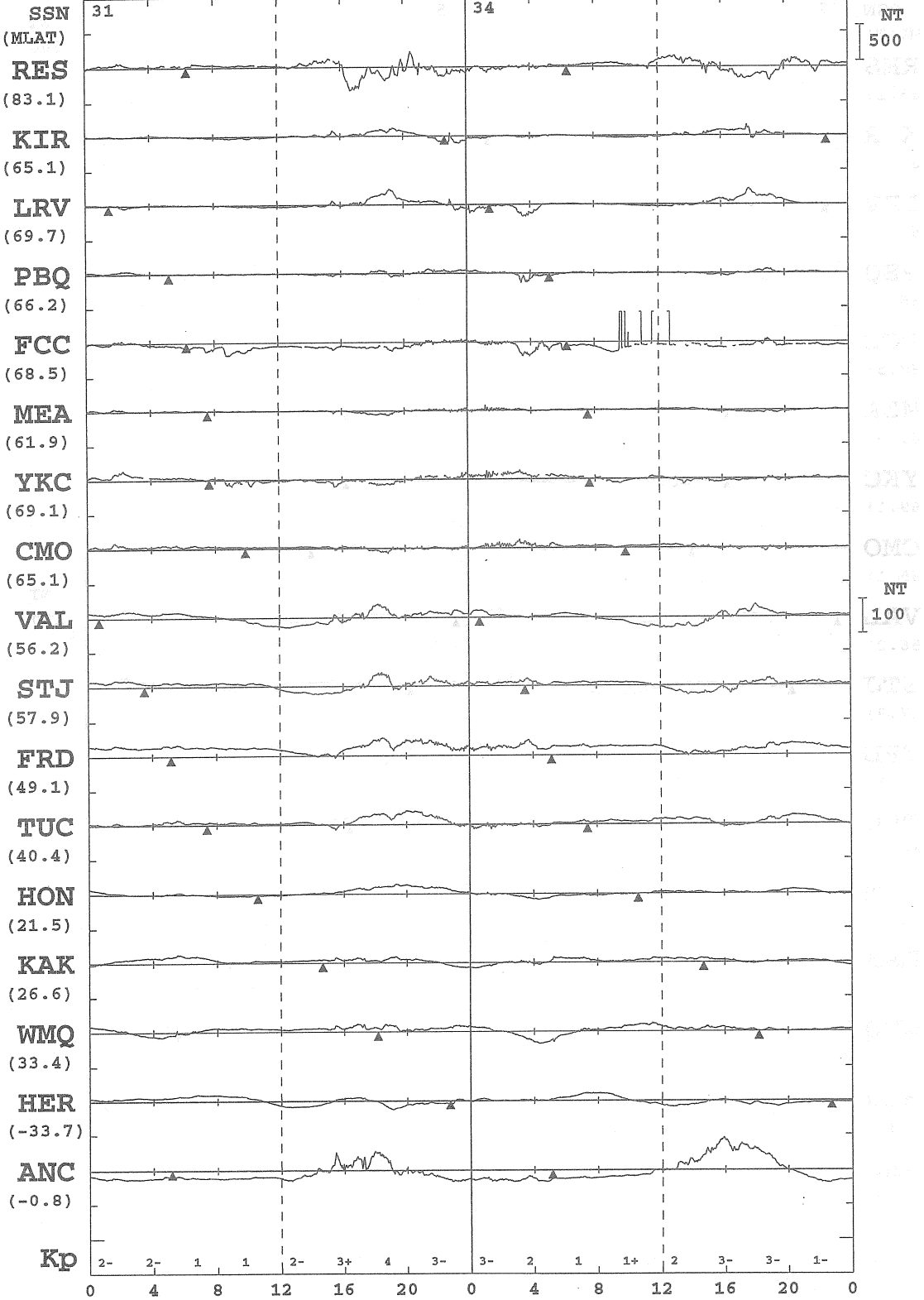
▲ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

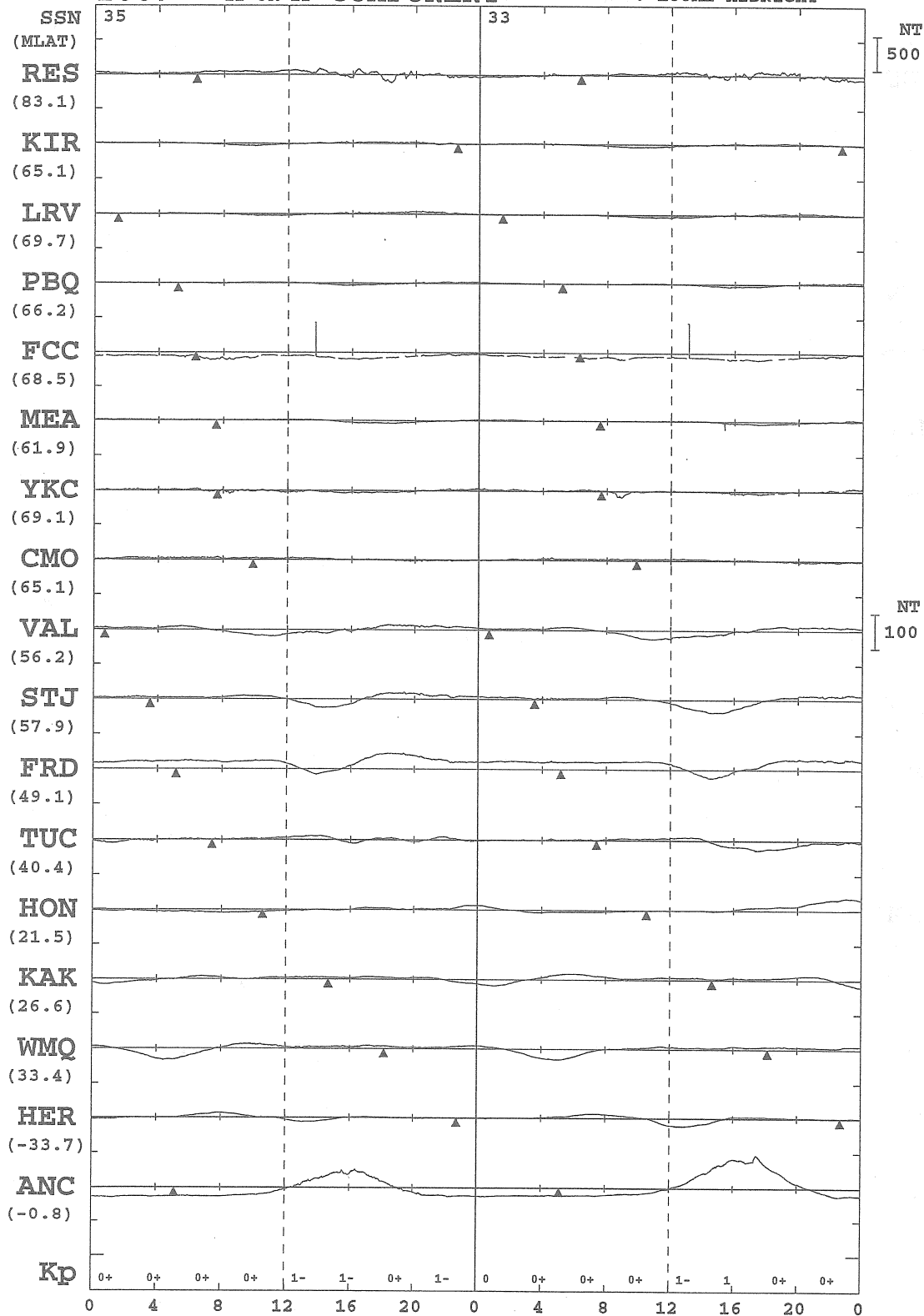


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

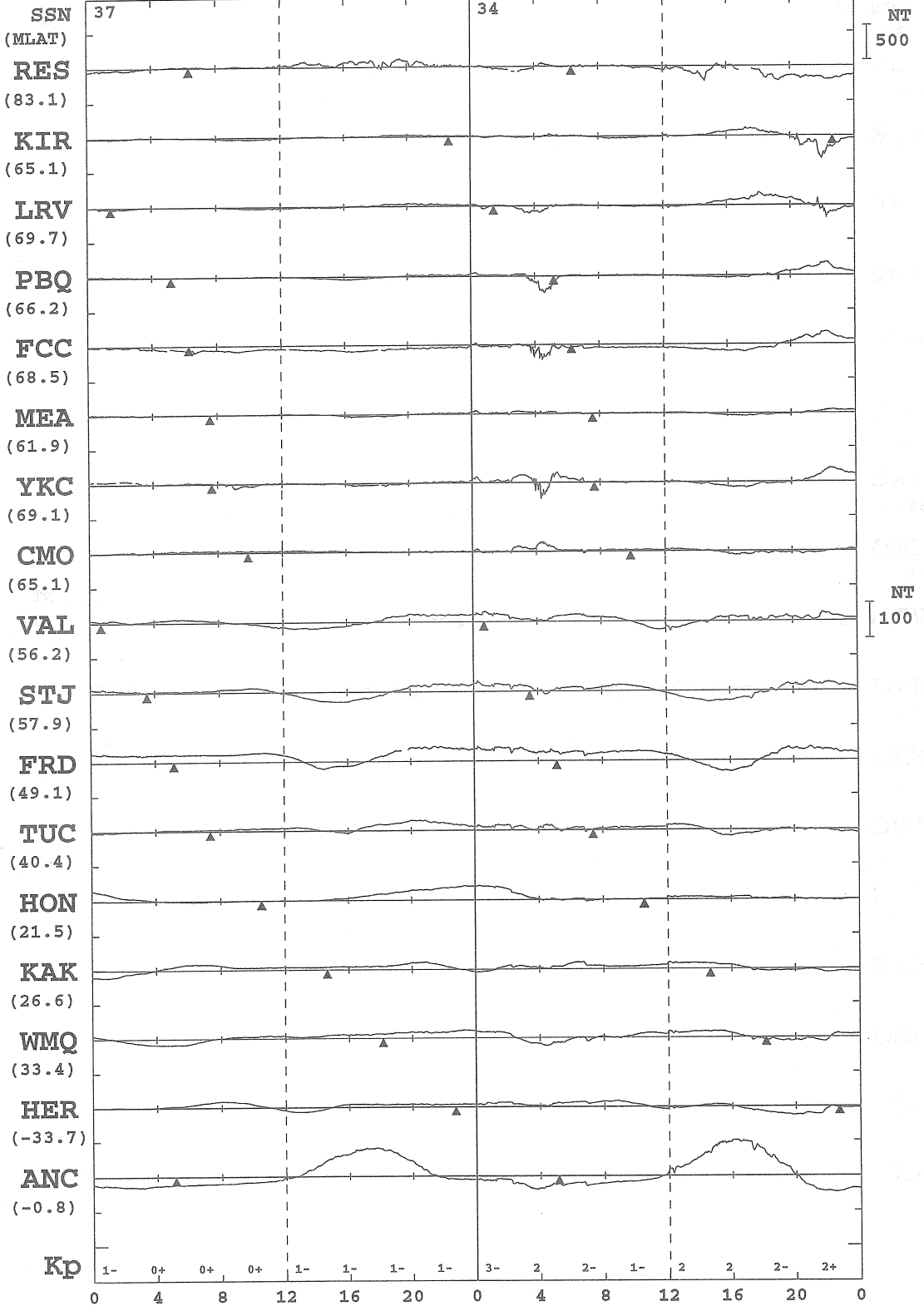


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



JUN 7
(DAY 158)

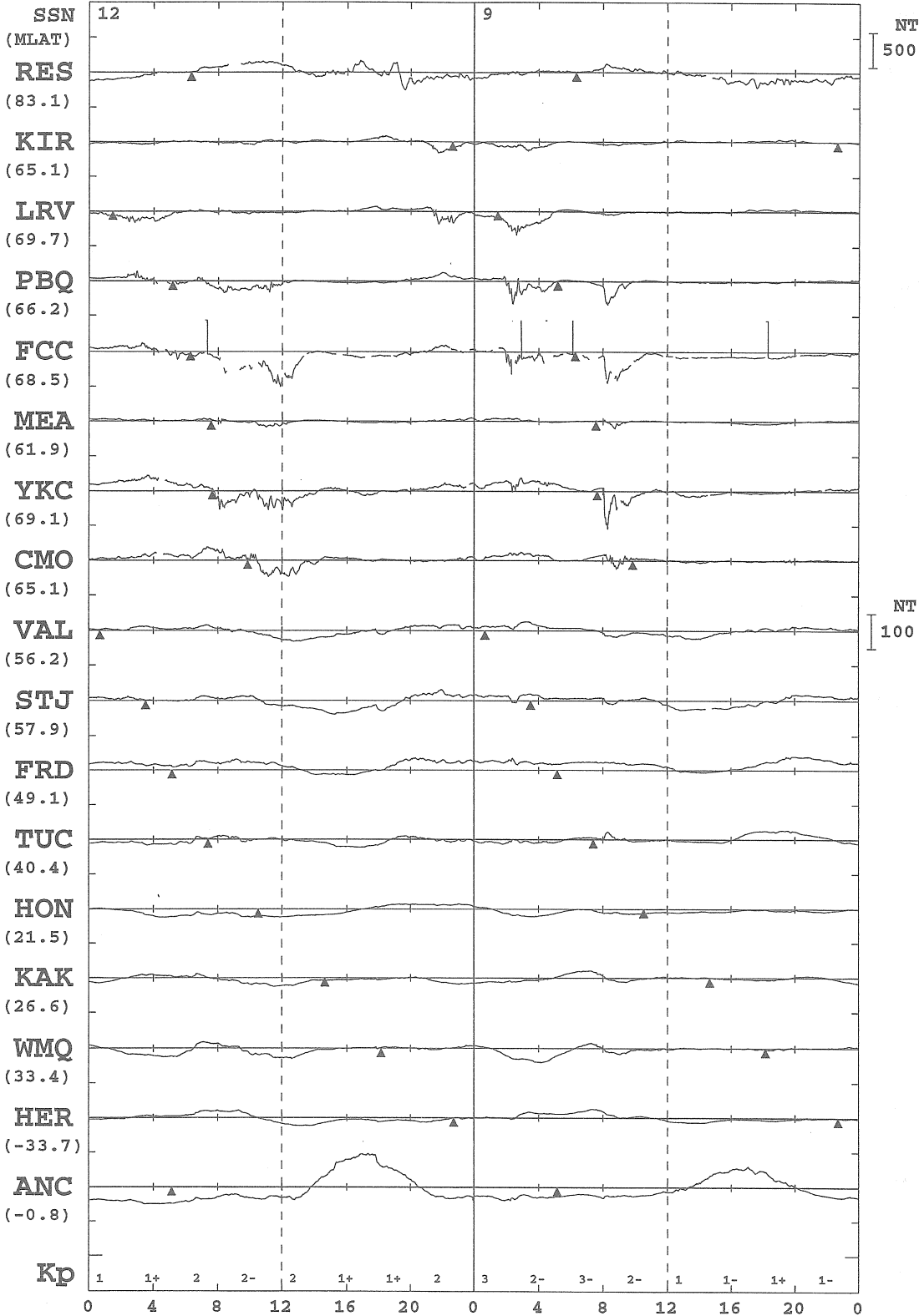
JUN 8
(DAY 159)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



JUN 9
(DAY 160)

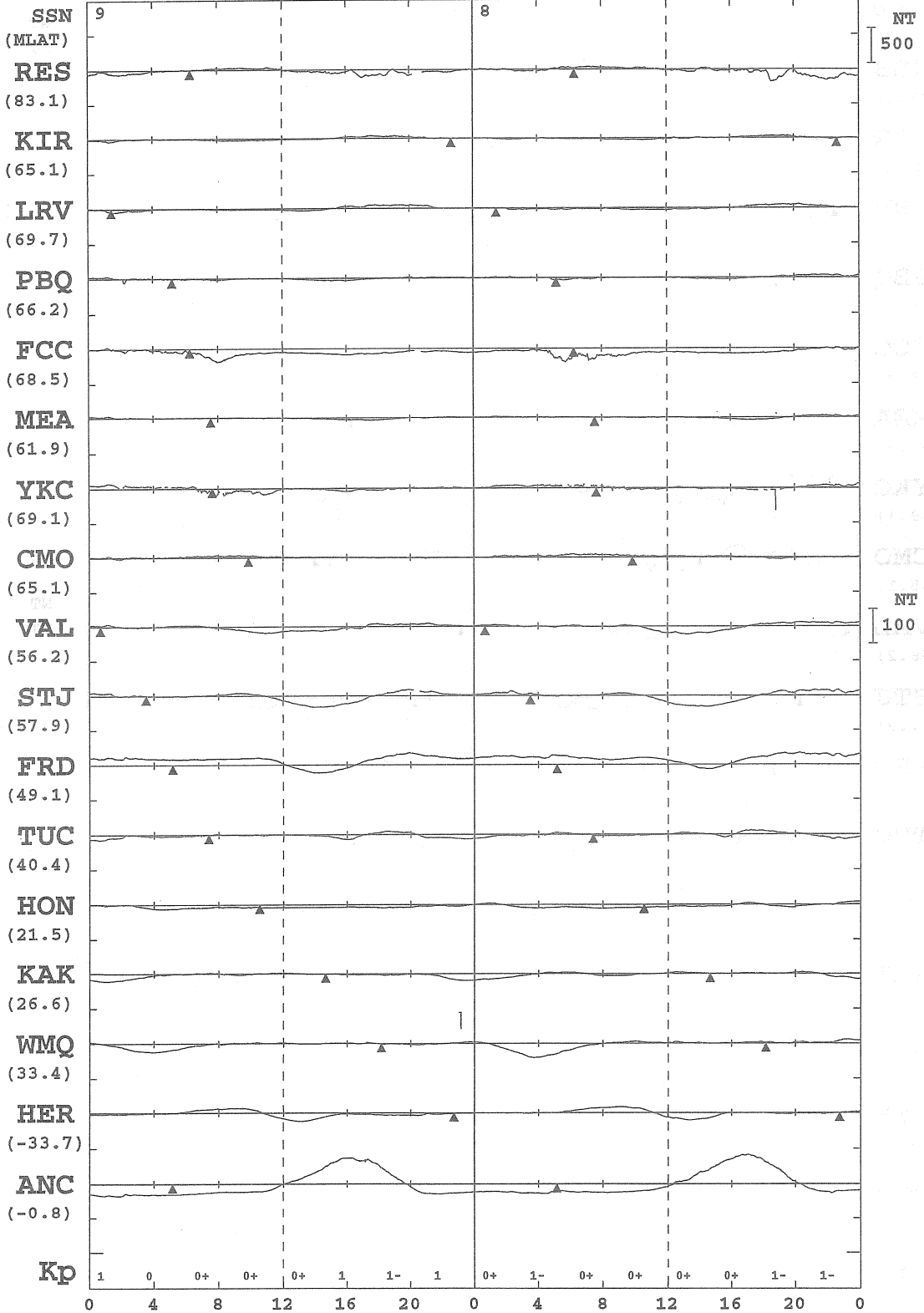
JUN 10
(DAY 161)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



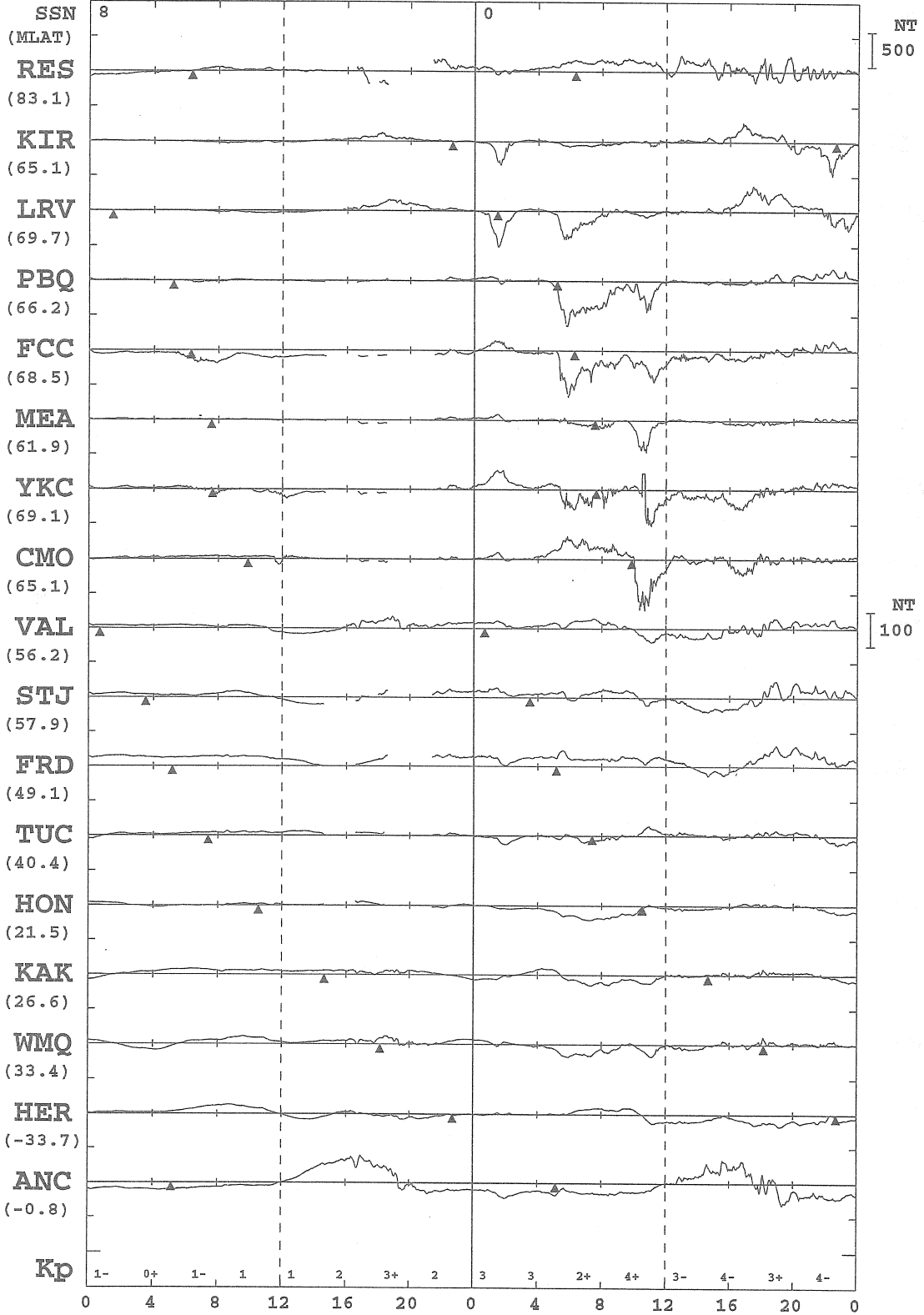
JUN 11
(DAY 162)

JUN 12
(DAY 163)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

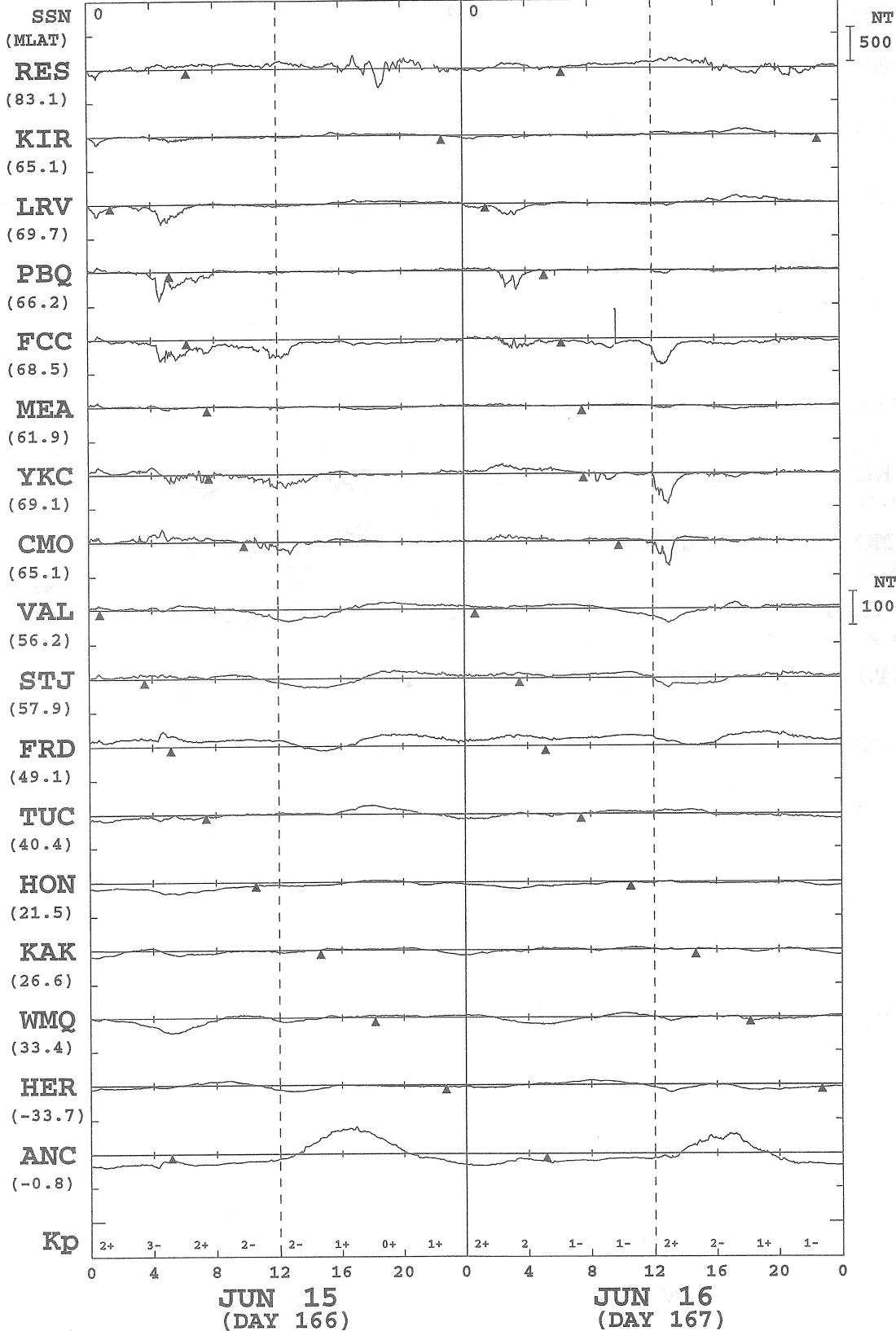


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

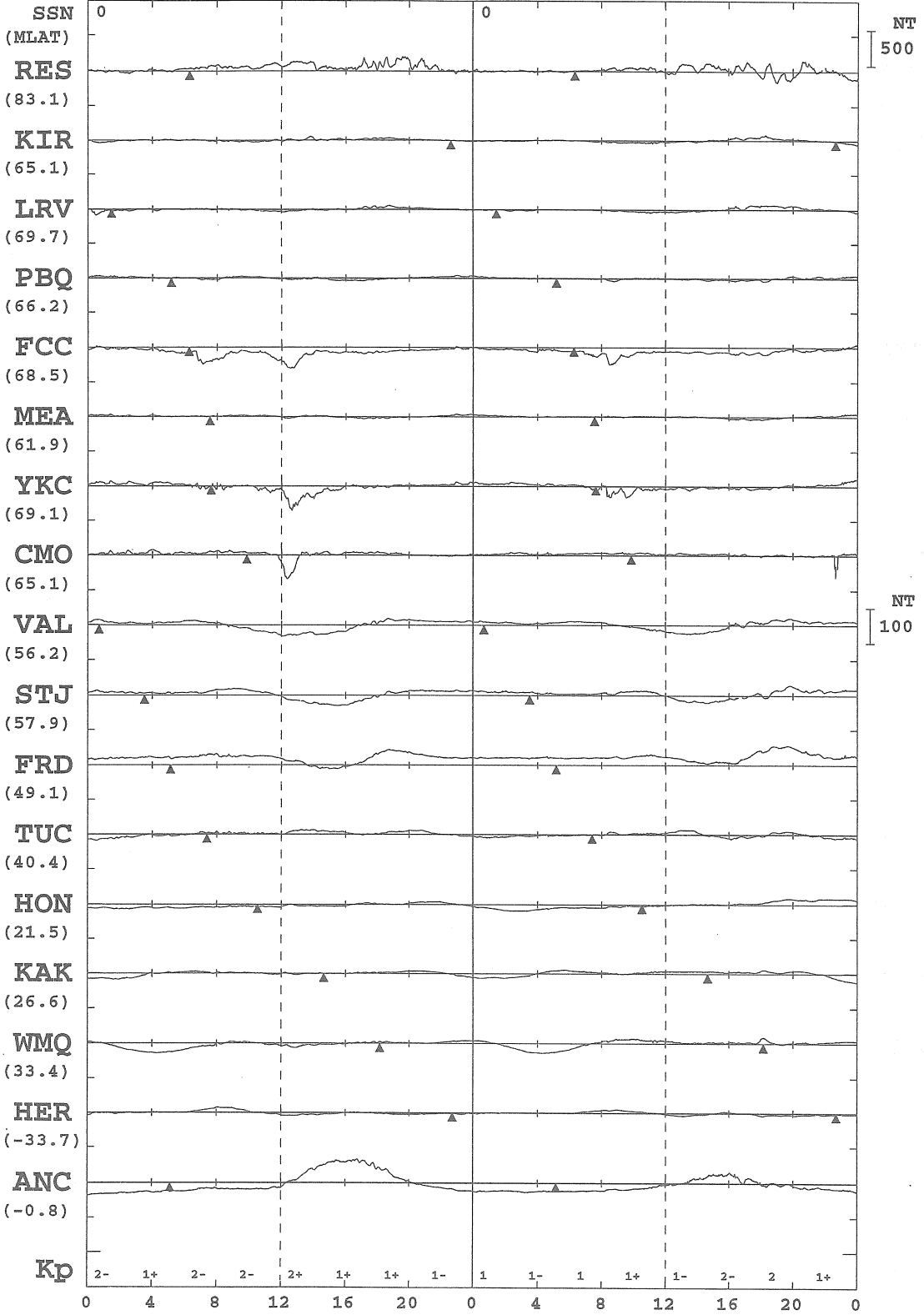


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



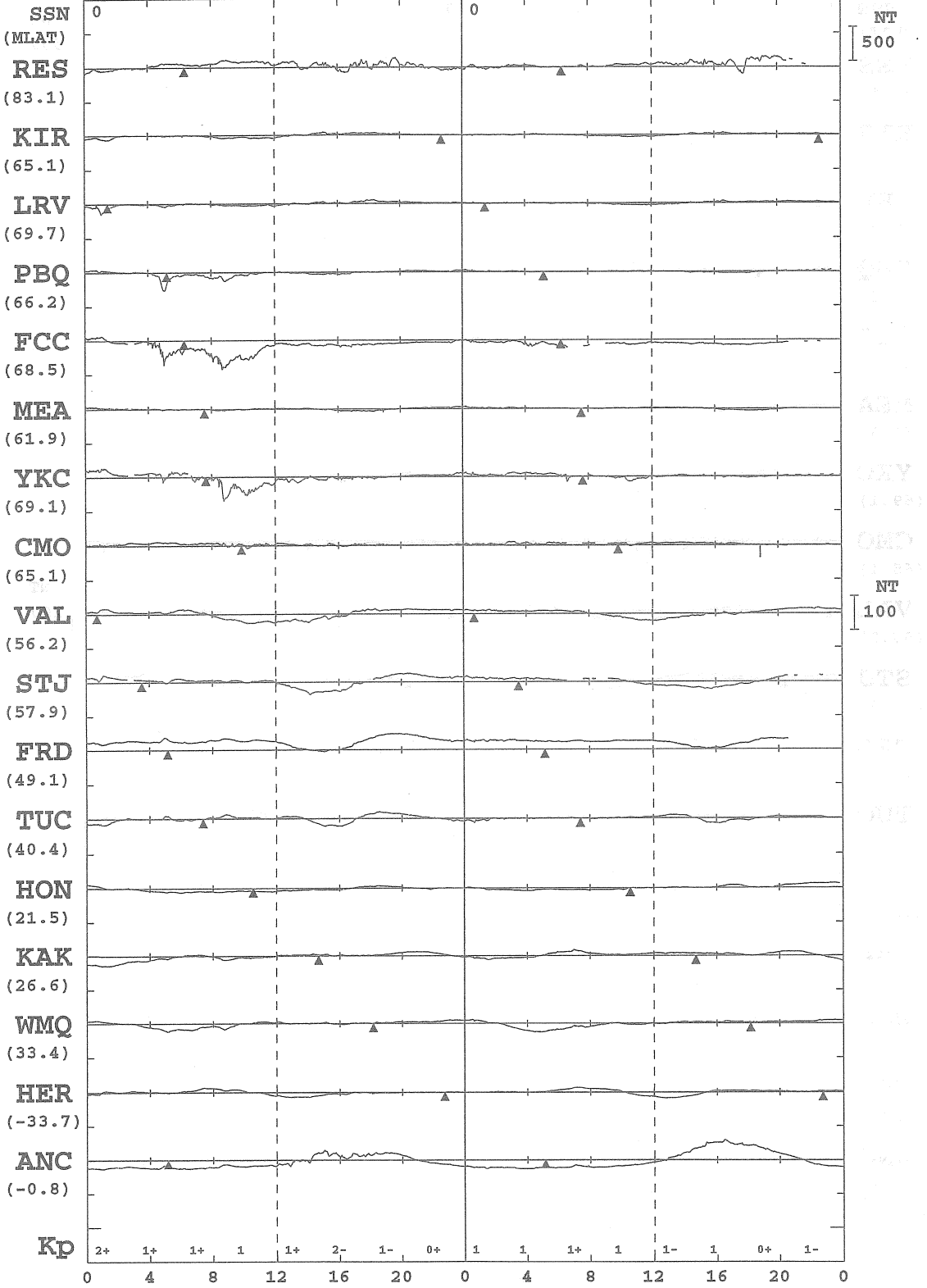
JUN 17
(DAY 168)

JUN 18
(DAY 169)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

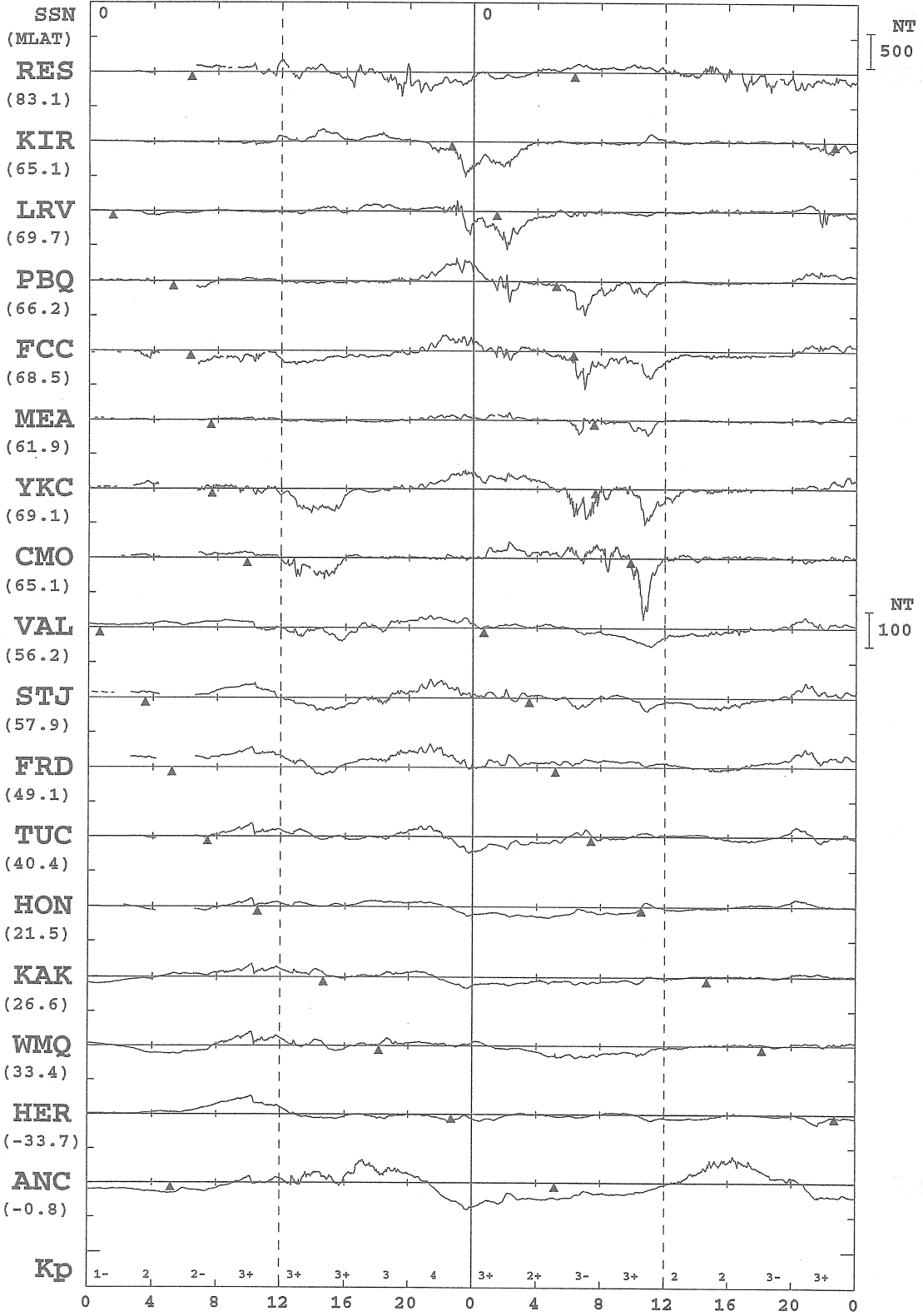
2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

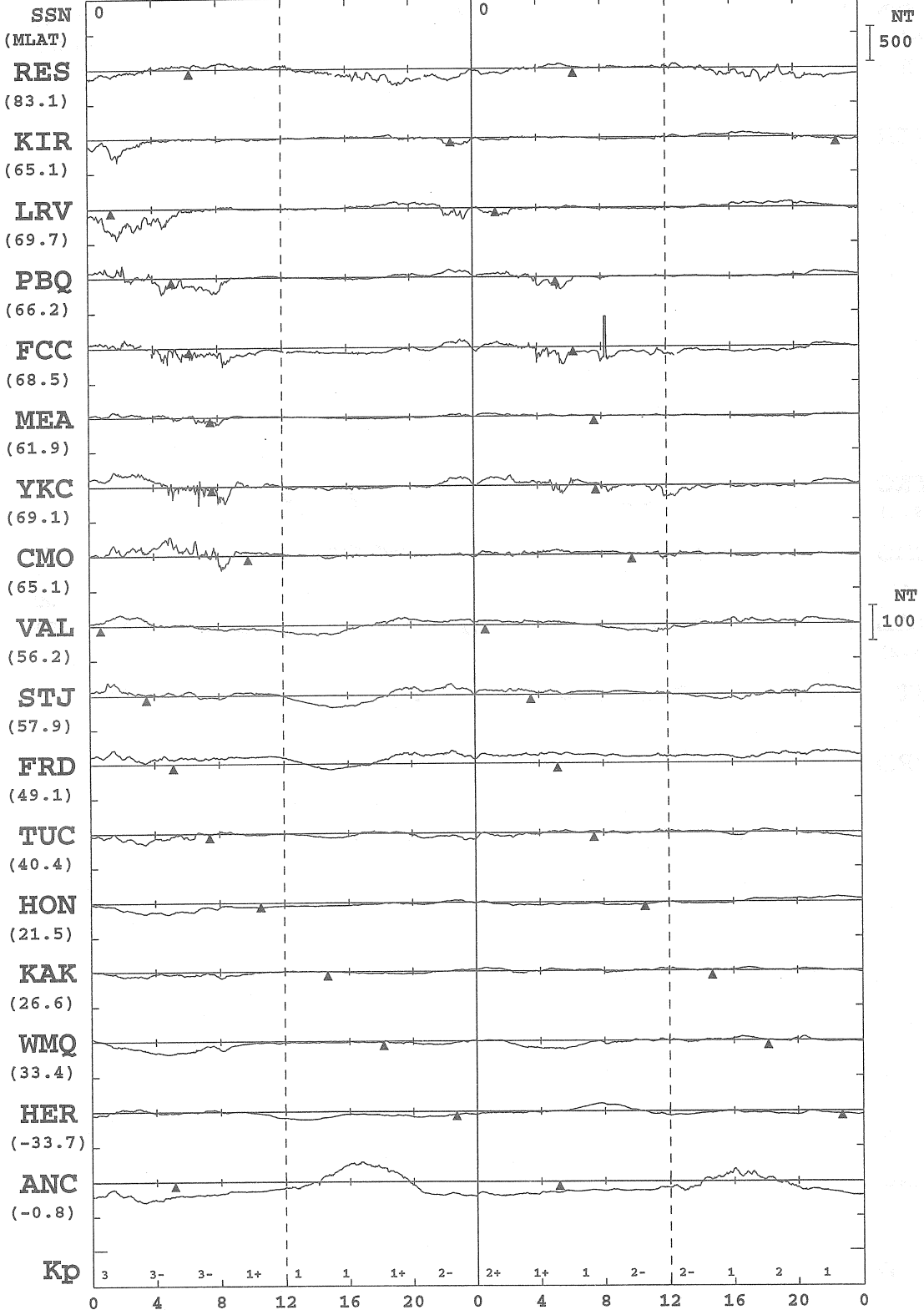


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



JUN 23
(DAY 174)

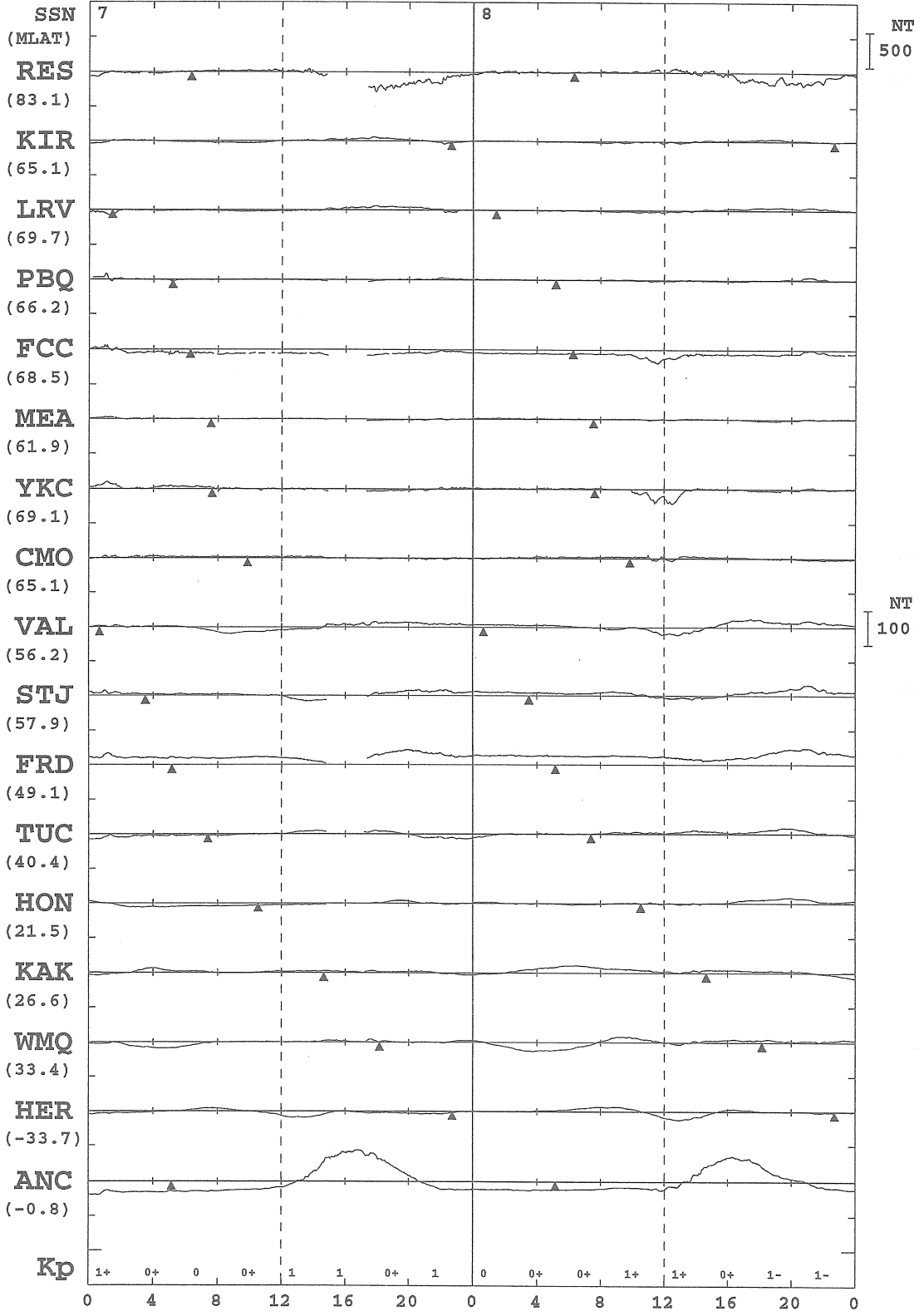
JUN 24
(DAY 175)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



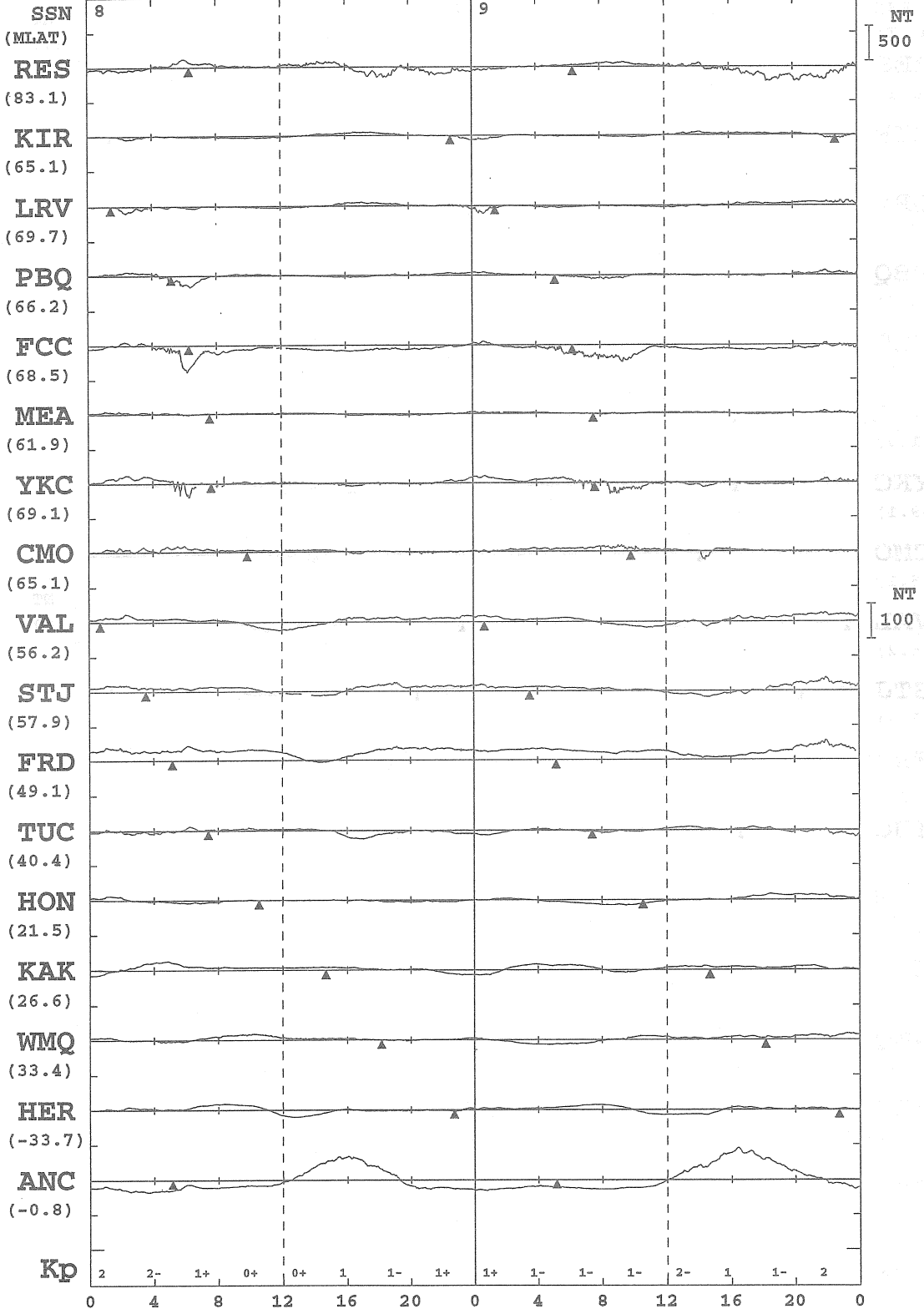
JUN 25
(DAY 176)

JUN 26
(DAY 177)

* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

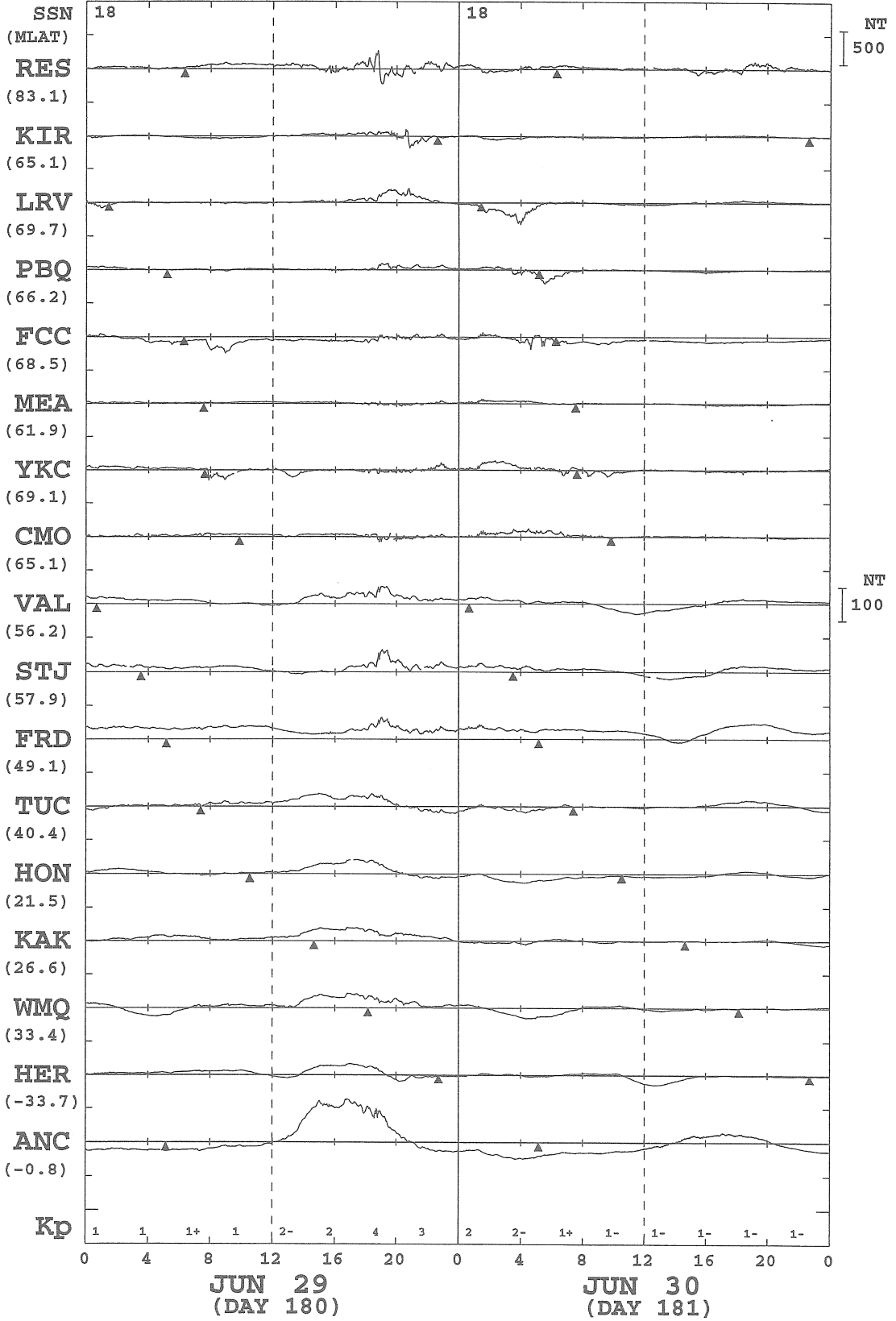


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



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KYOTO UNIV.

