

PROVISIONAL GEOMAGNETIC
DATA PLOTS
NO.36

(July - December, 2007)

February 2008

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, 071027-28.ps.gz for October 27-28, 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.

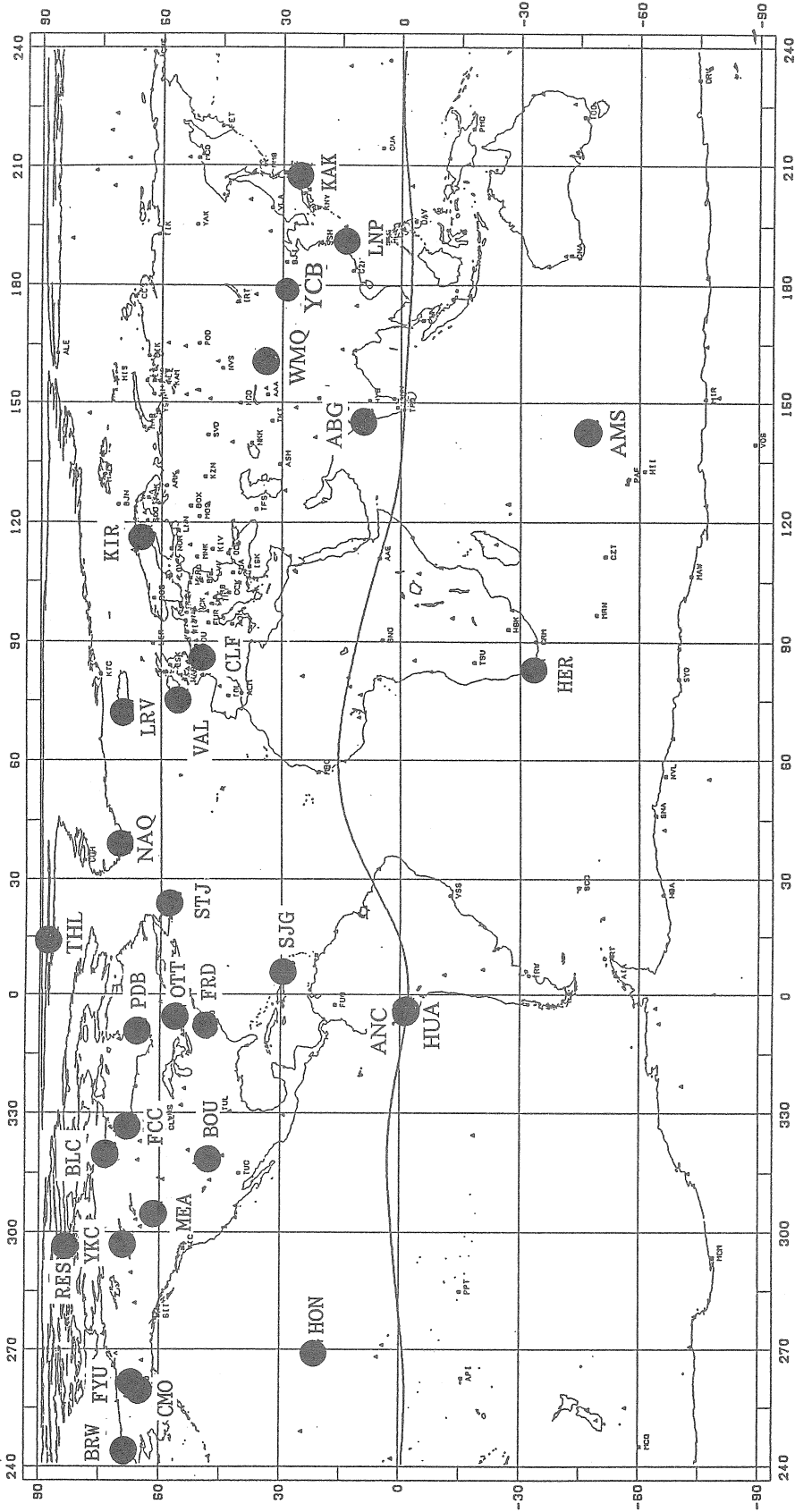
STATION NAME	ABB CODE	ORG No.	GEOGRAPHIC		GEOMAGNETIC		INVARIANT PLOT	
			LAT.	LONG.	LAT.	LONG.	LAT.	SCALE
*Tule	THL	9	76.6	291.2	87.2	12.4	85.9	500nT/div
*Resolute Bay	RES	1	74.7	265.1	83.1	296.0	83.9	"
*Baker Lake	BLC	1	64.3	264.0	73.7	319.2	74.6	"
*Narssarsuaq	NAQ	9	61.2	314.6	70.6	38.7	67.5	"
Leirvogur	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	"
Lumping	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)

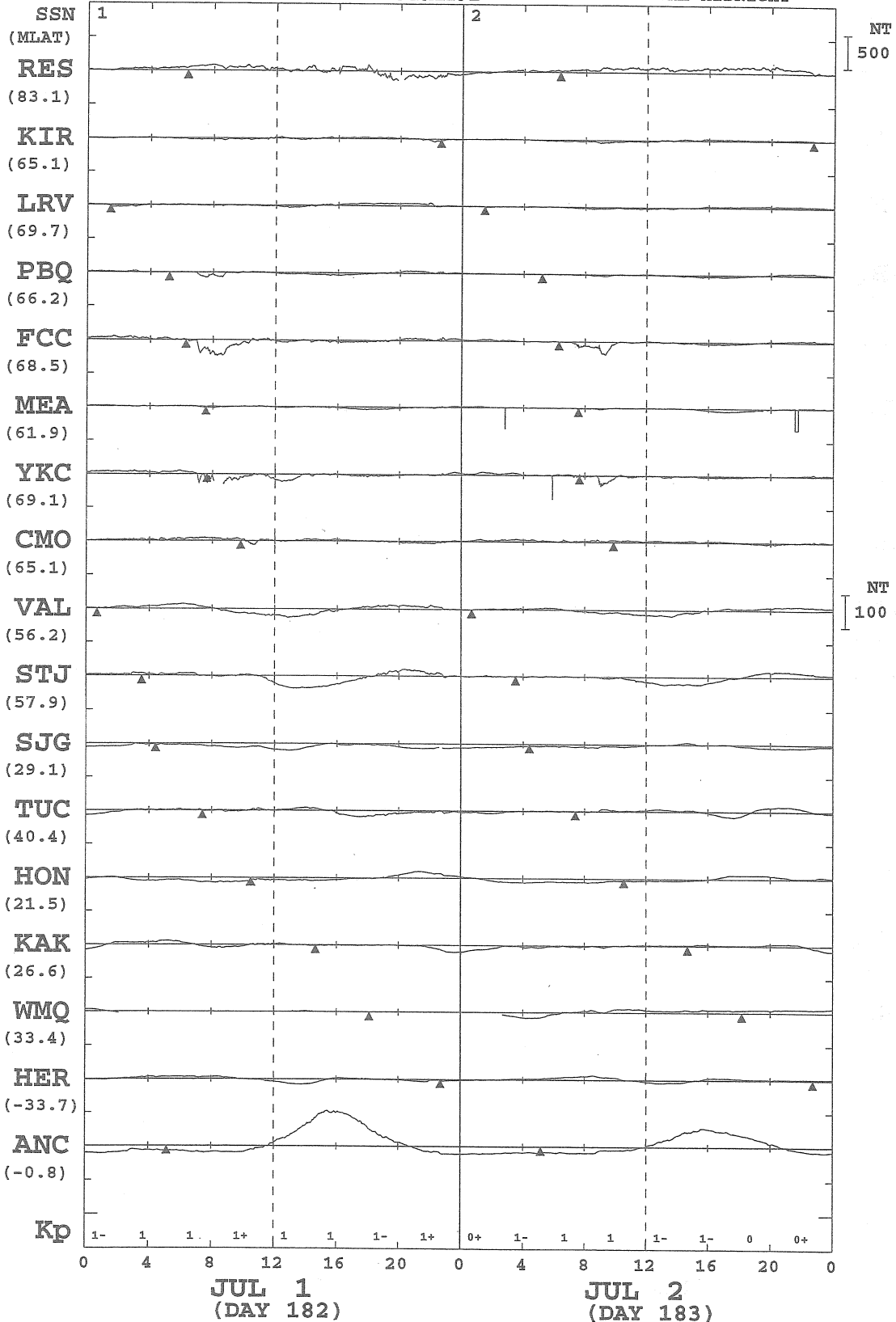
—— DIP EQUATOR AT 100 KM ALTITUDE

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.

July - December, 2007

2007 H OR X-COMPONENT

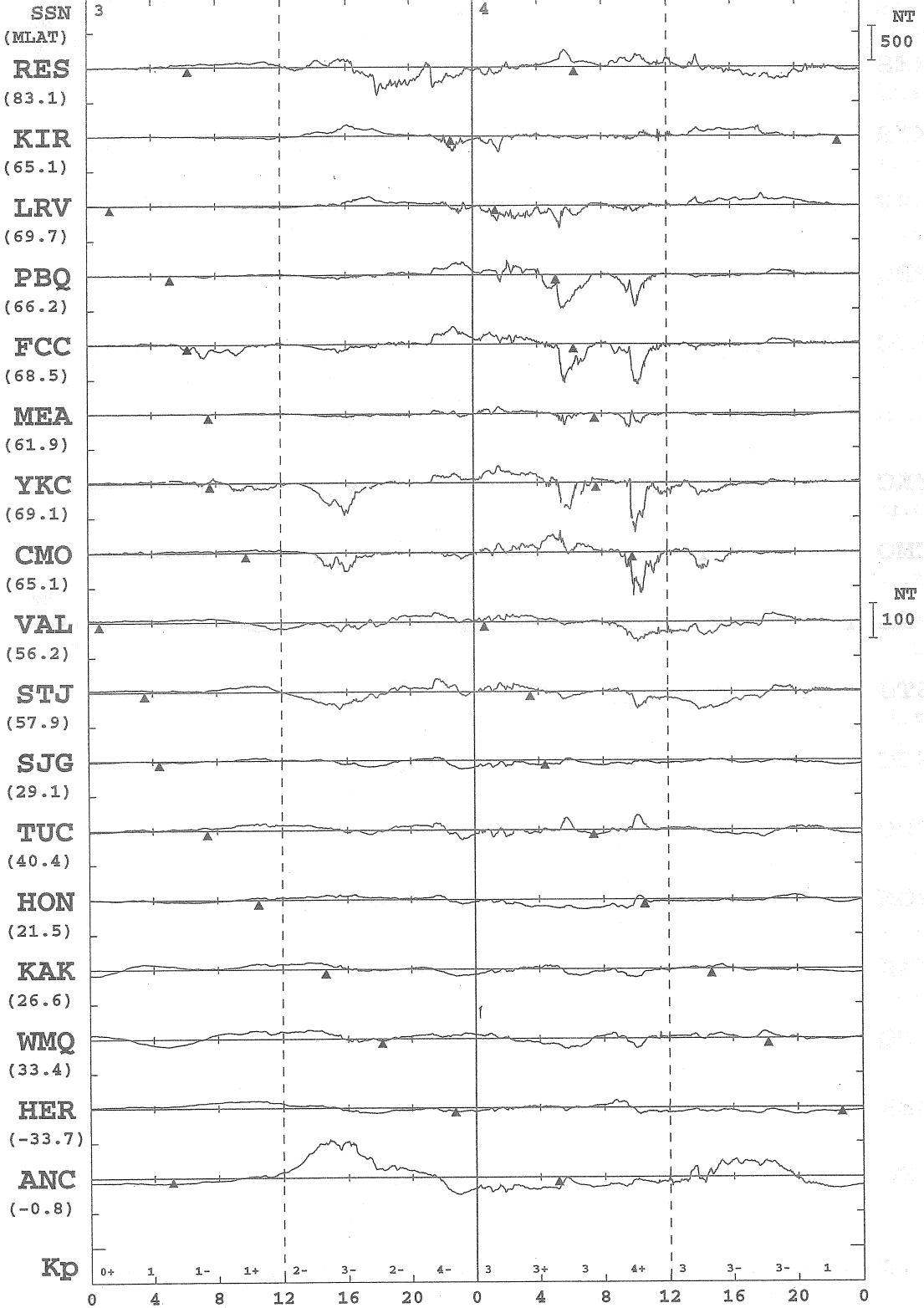
▲ : LOCAL MIDNIGHT



* 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

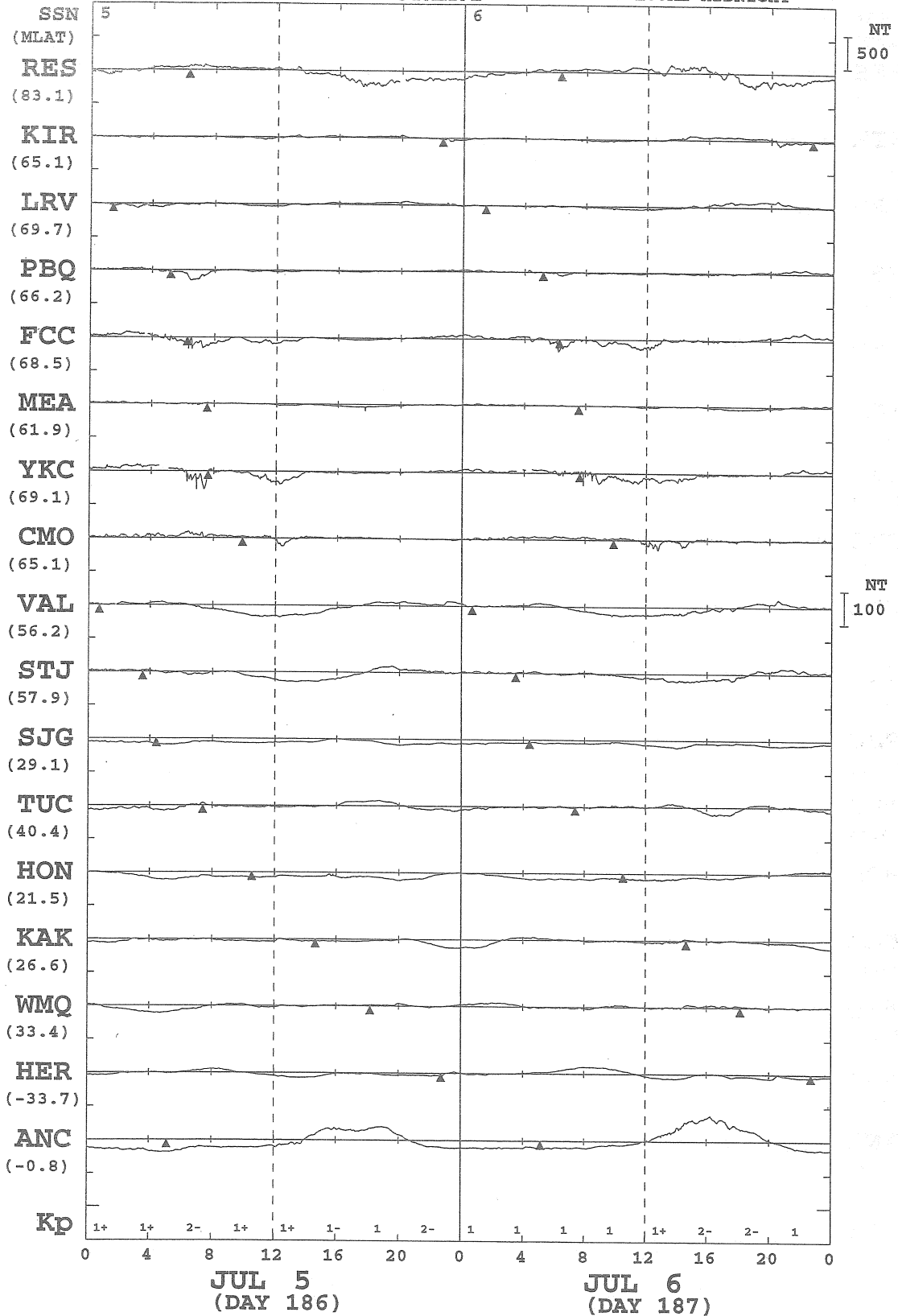


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

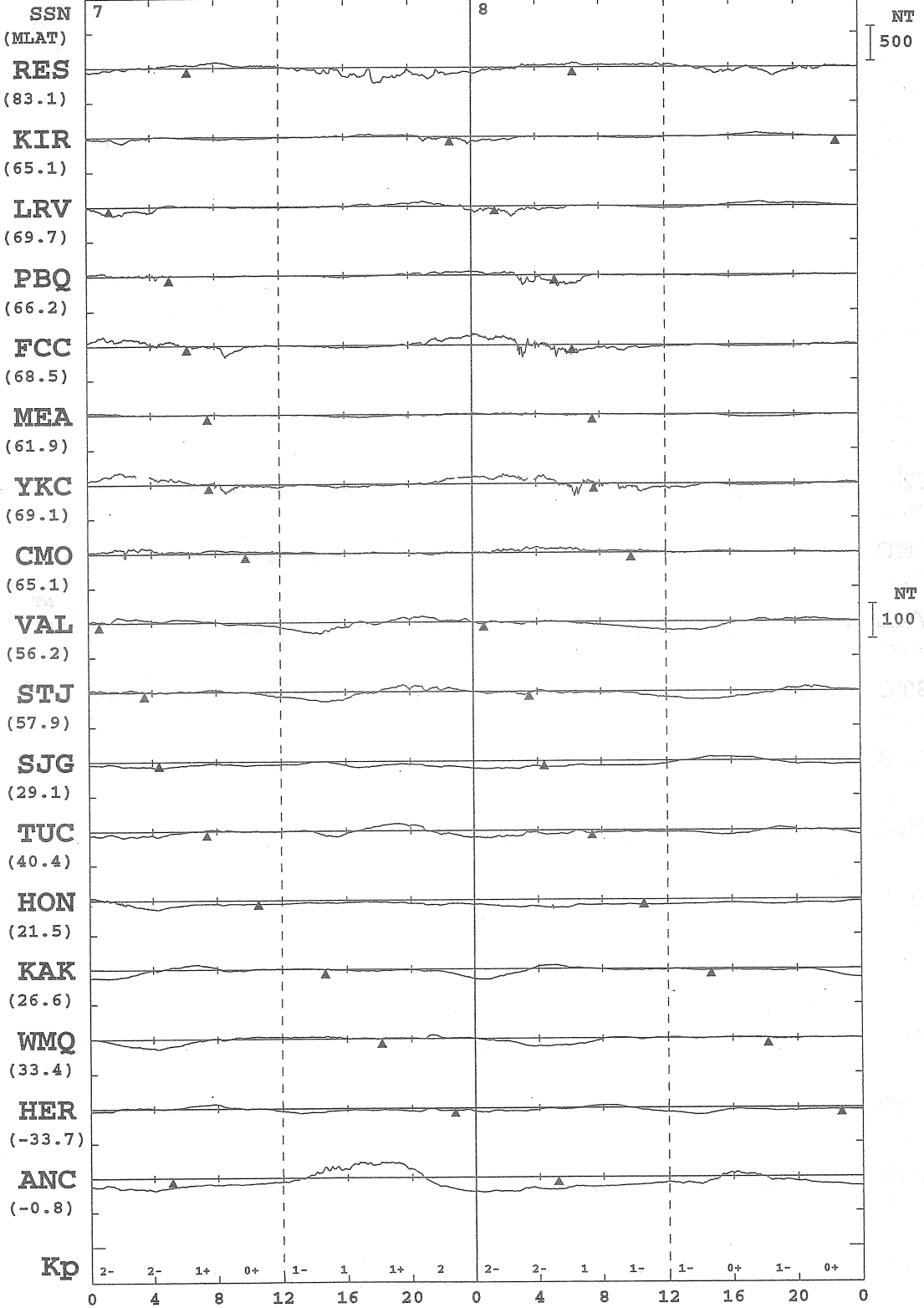


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

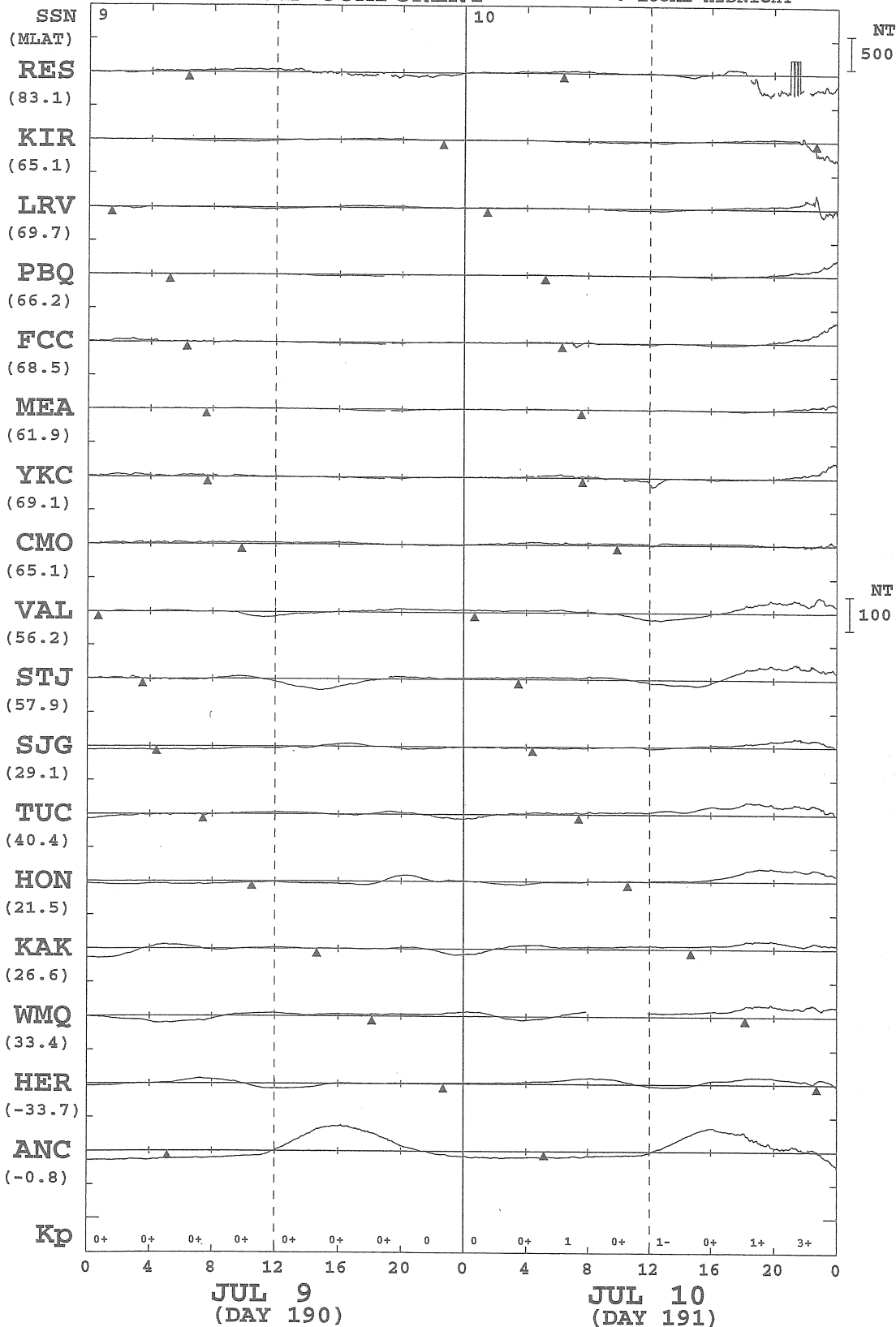


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

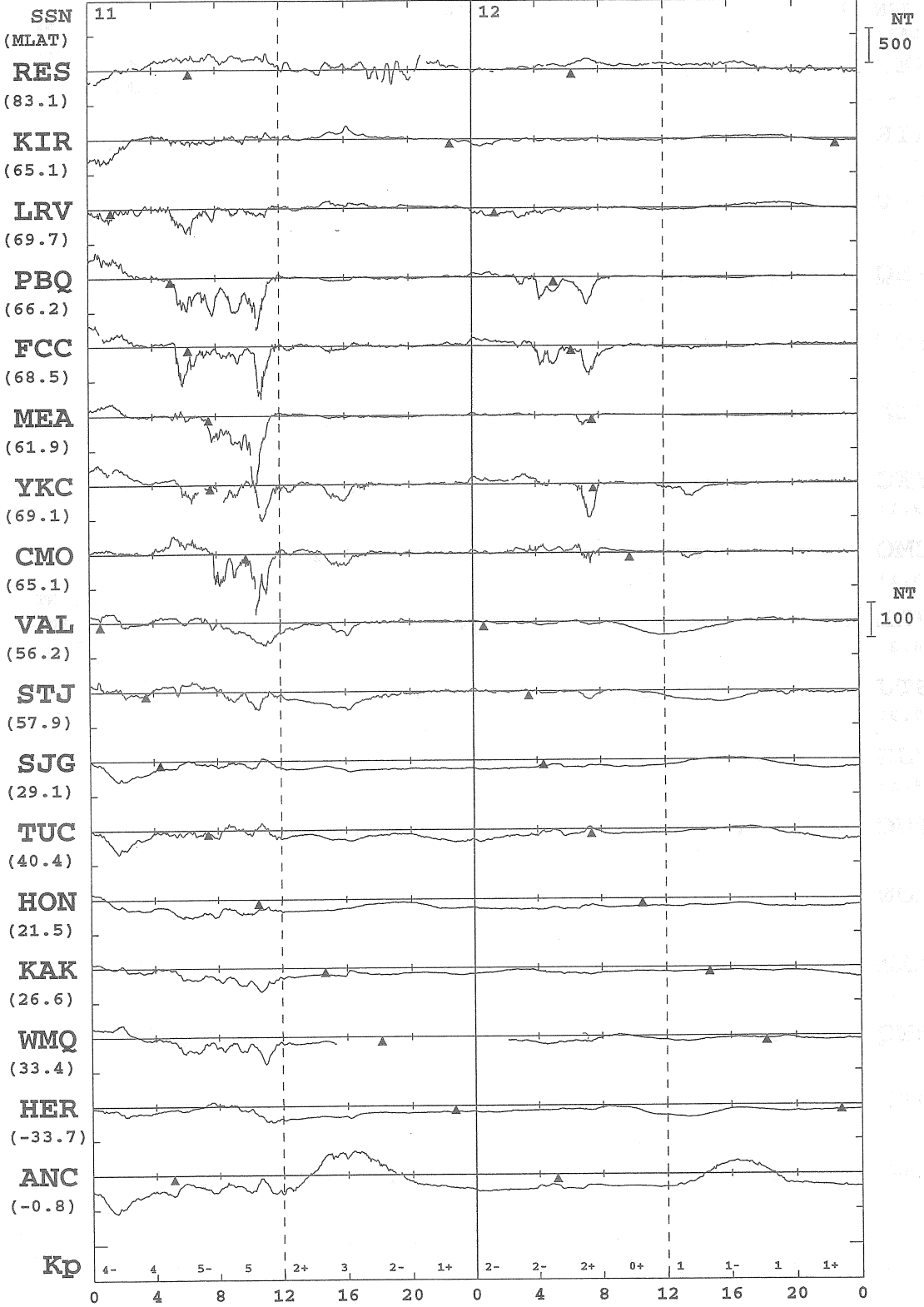
▲ : LOCAL MIDNIGHT



* 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 A : LOCAL MIDNIGHT



JUL 11
(DAY 192)

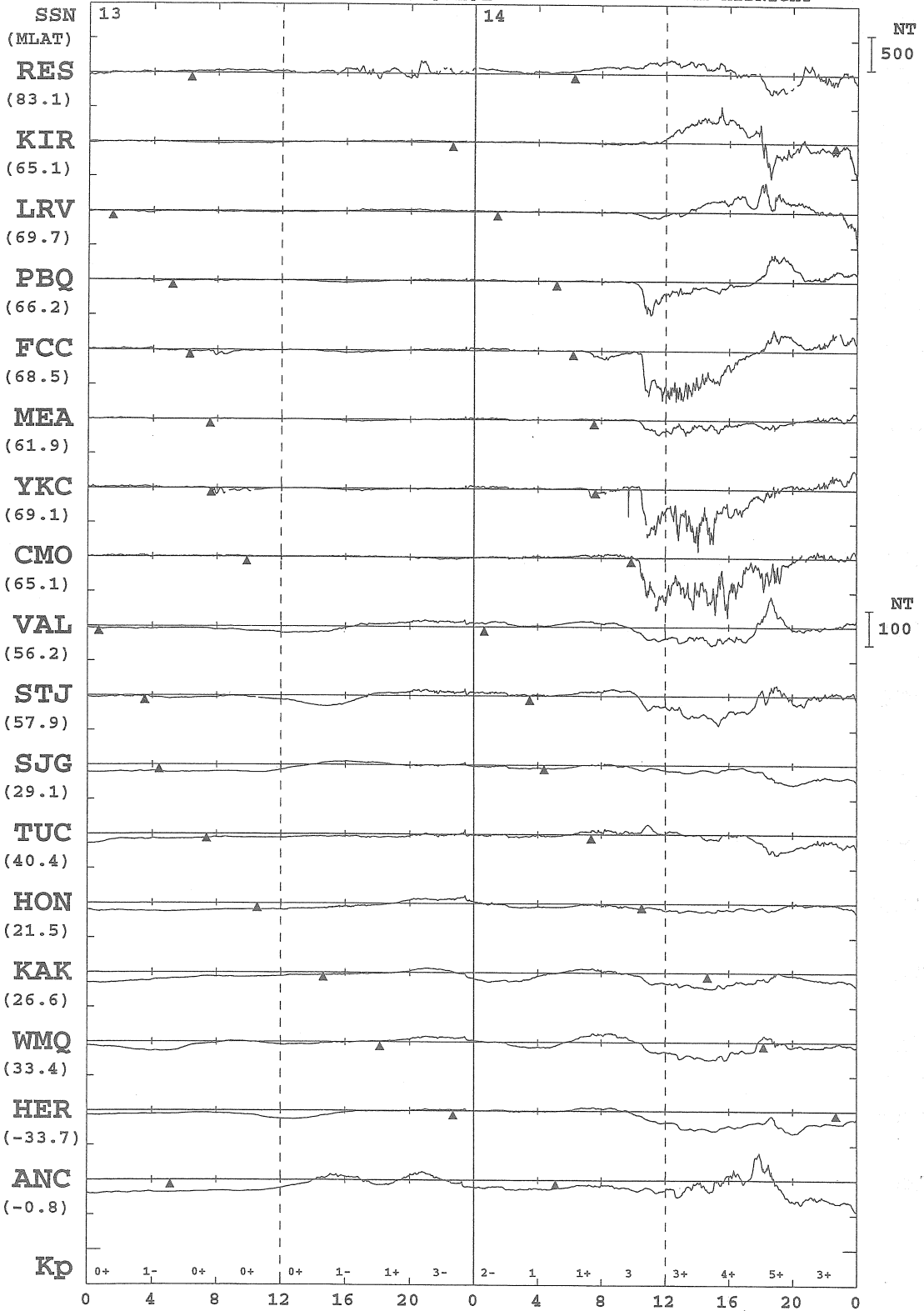
JUL 12
(DAY 193)

* 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



JUL 13
(DAY 194)

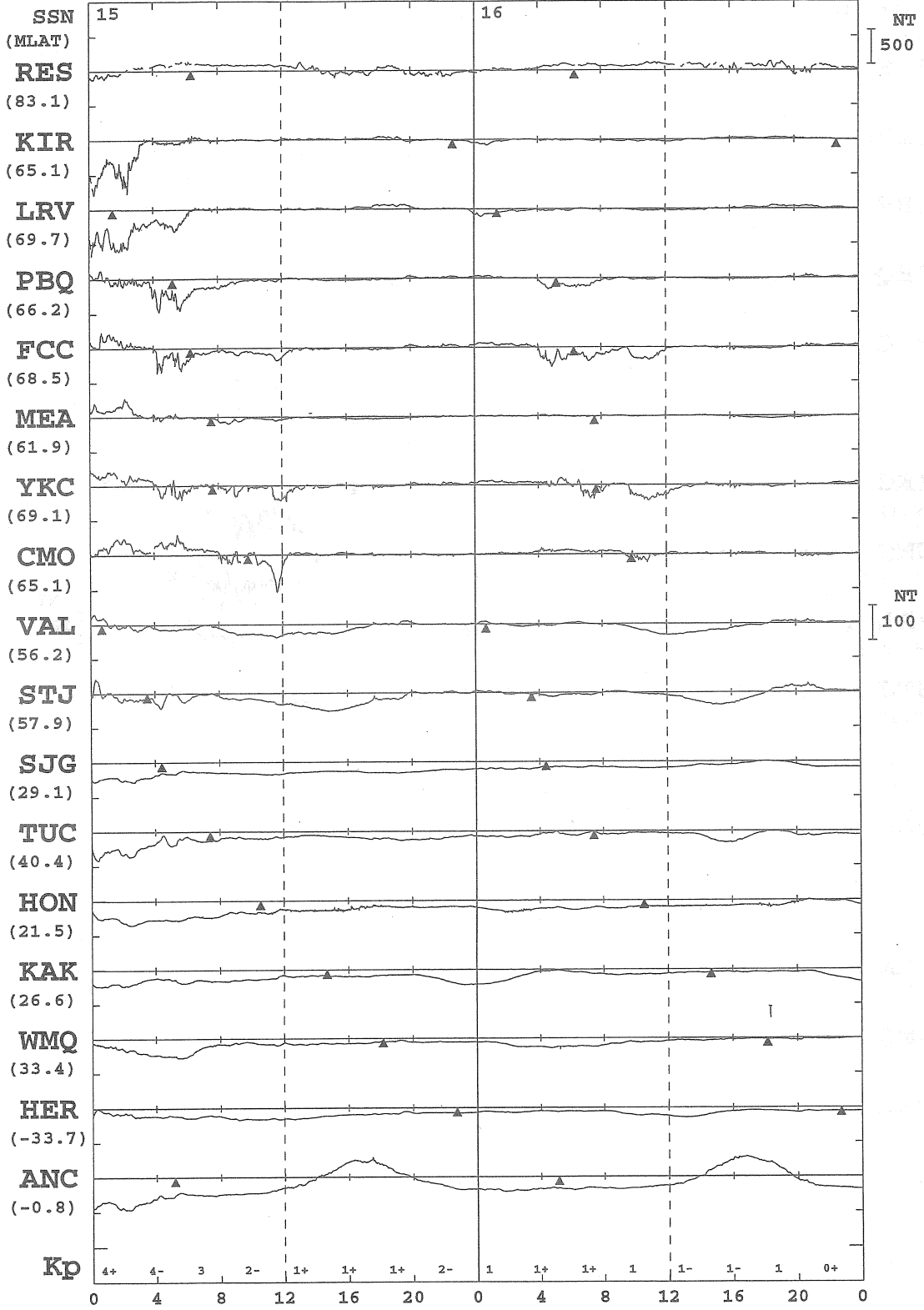
JUL 14
(DAY 195)

* 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

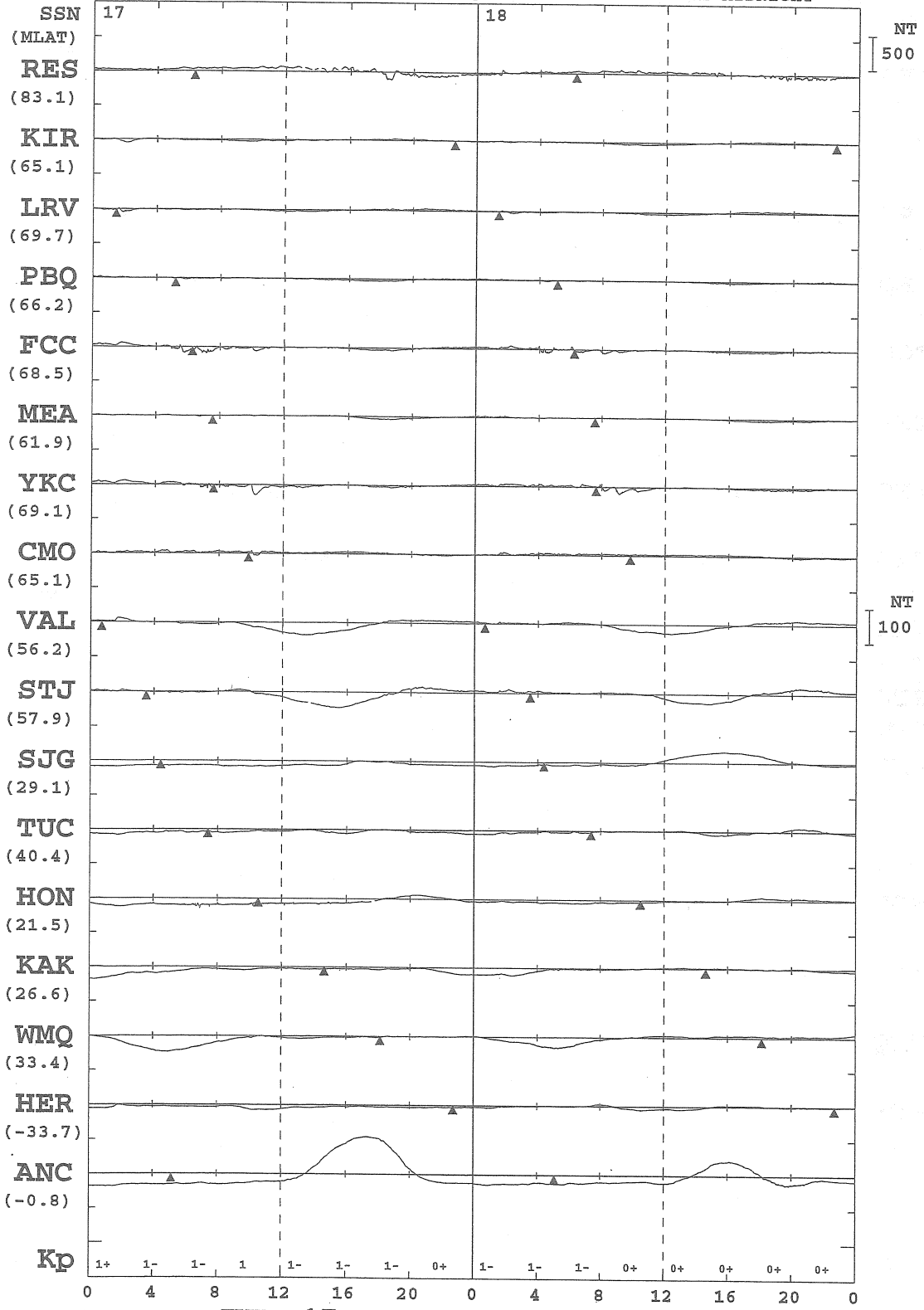


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

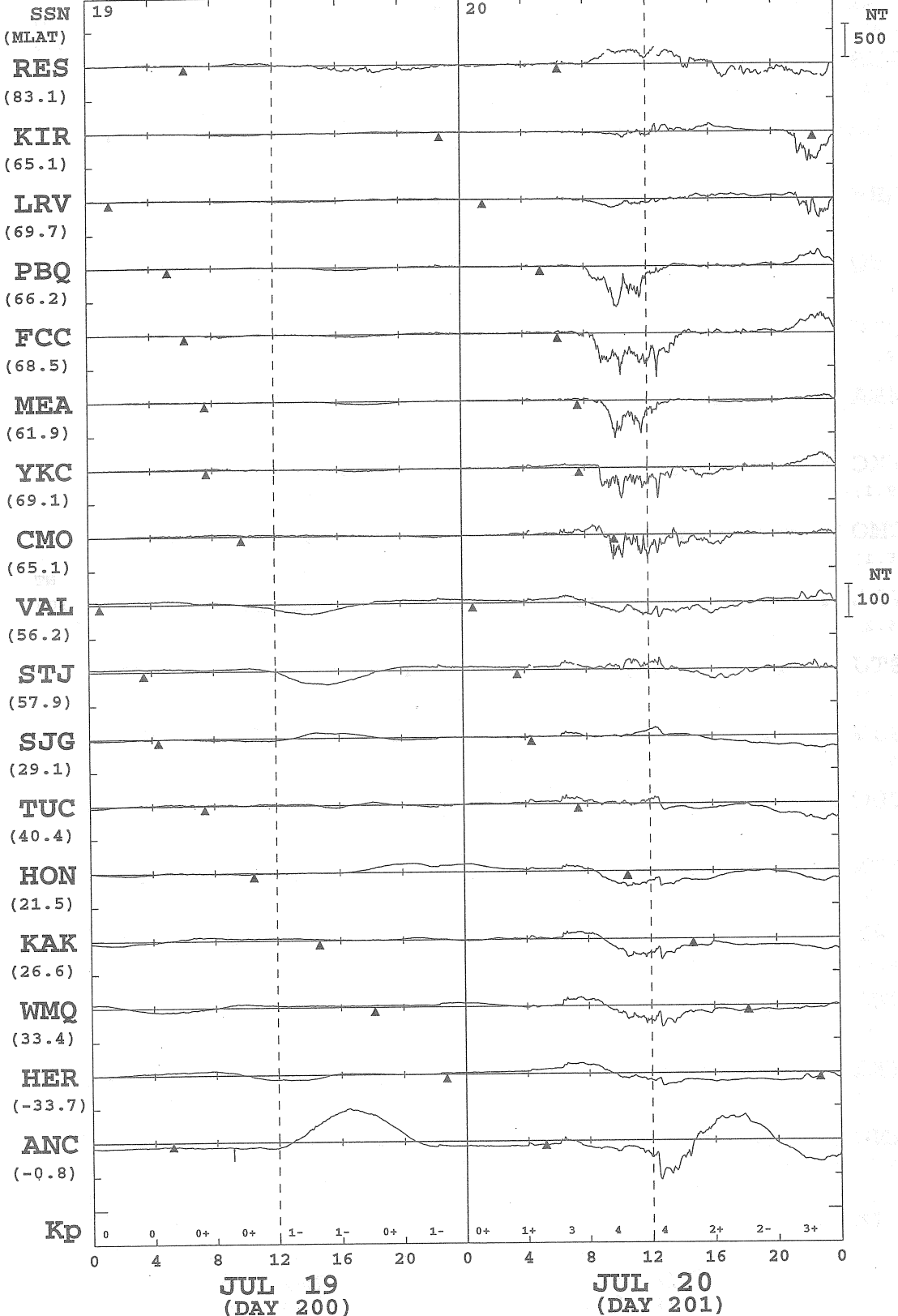


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

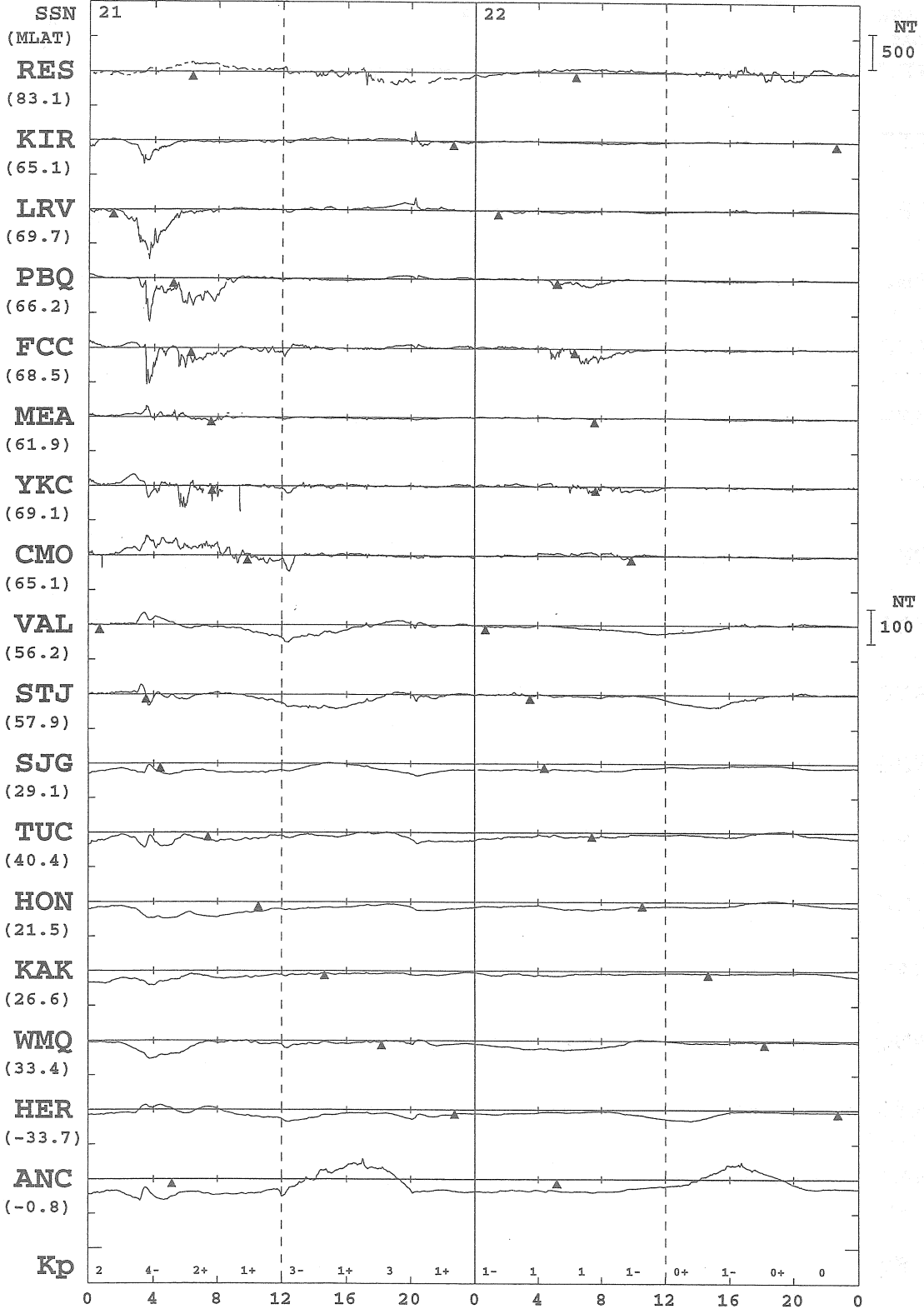


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



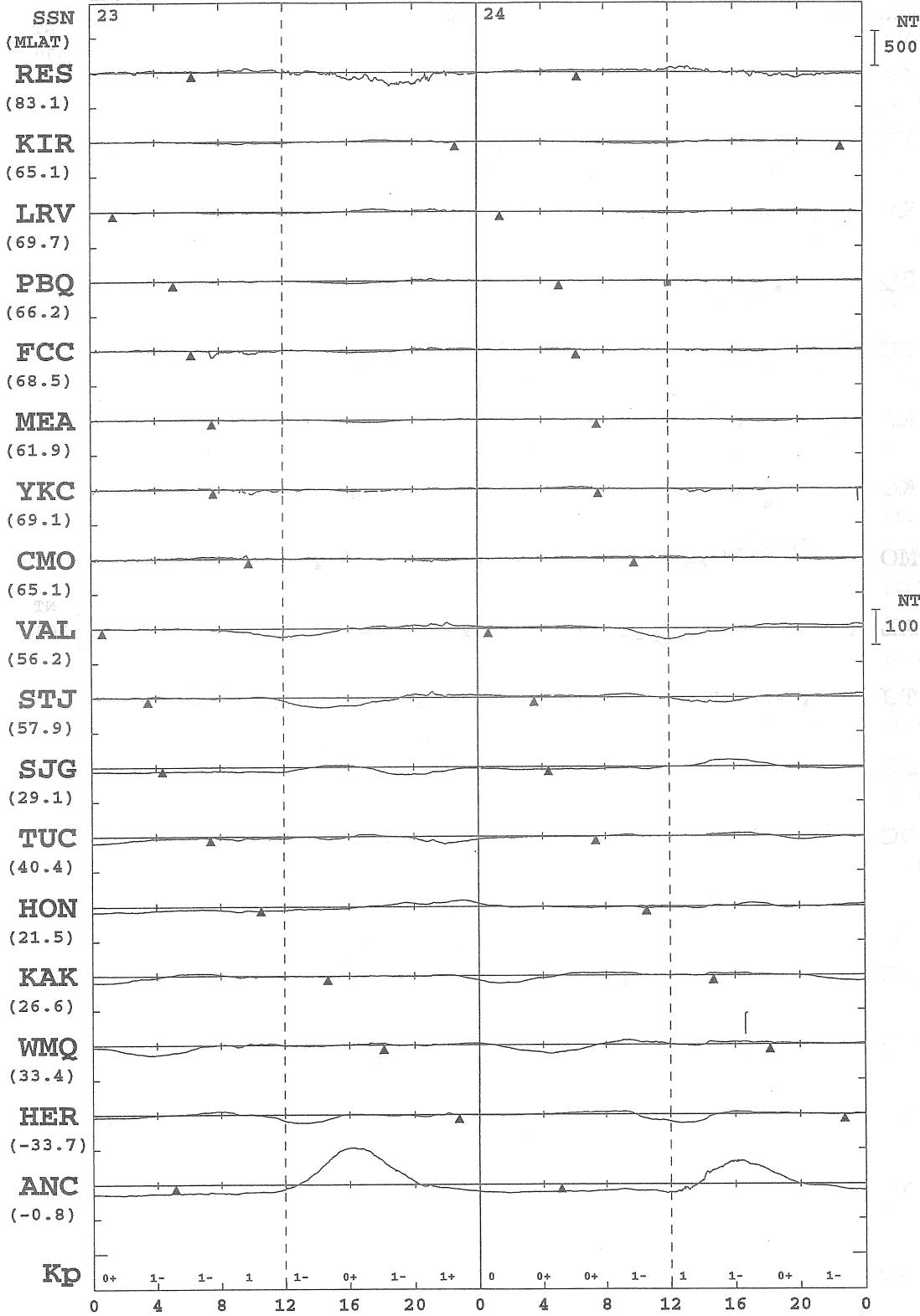
JUL 21
(DAY 202)

JUL 22
(DAY 203)

* 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



JUL 23
(DAY 204)

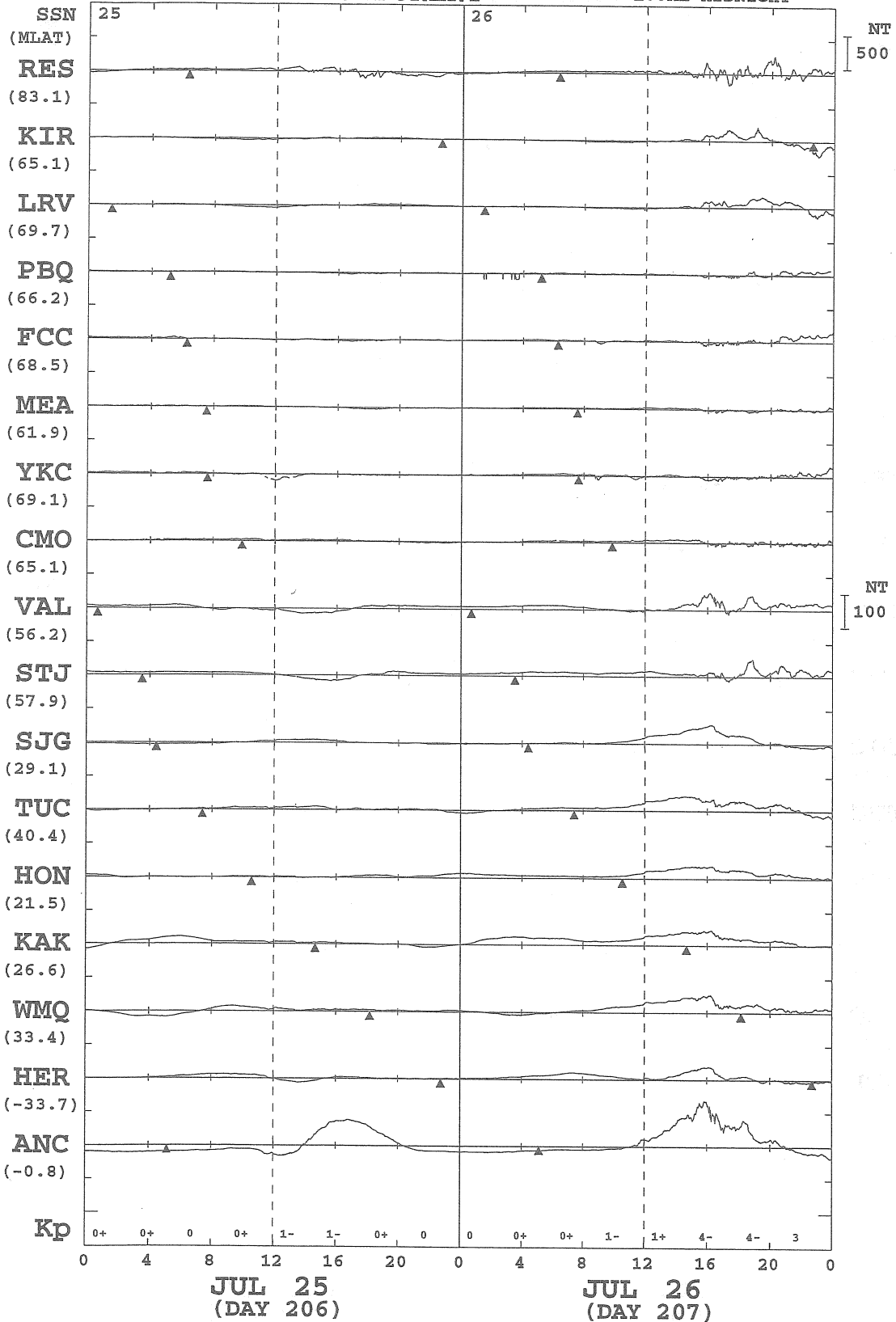
JUL 24
(DAY 205)

* 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

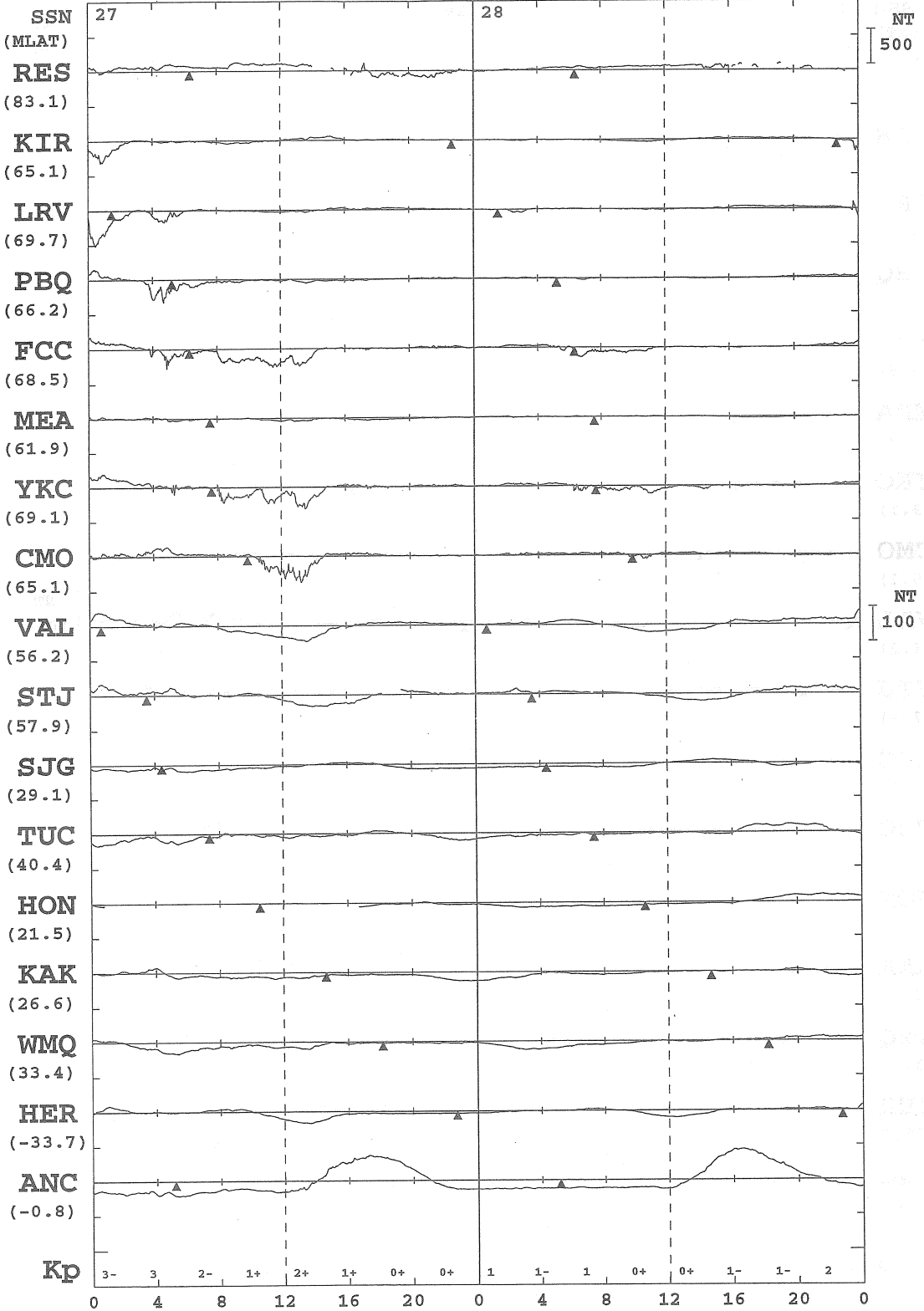


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



JUL 27
(DAY 208)

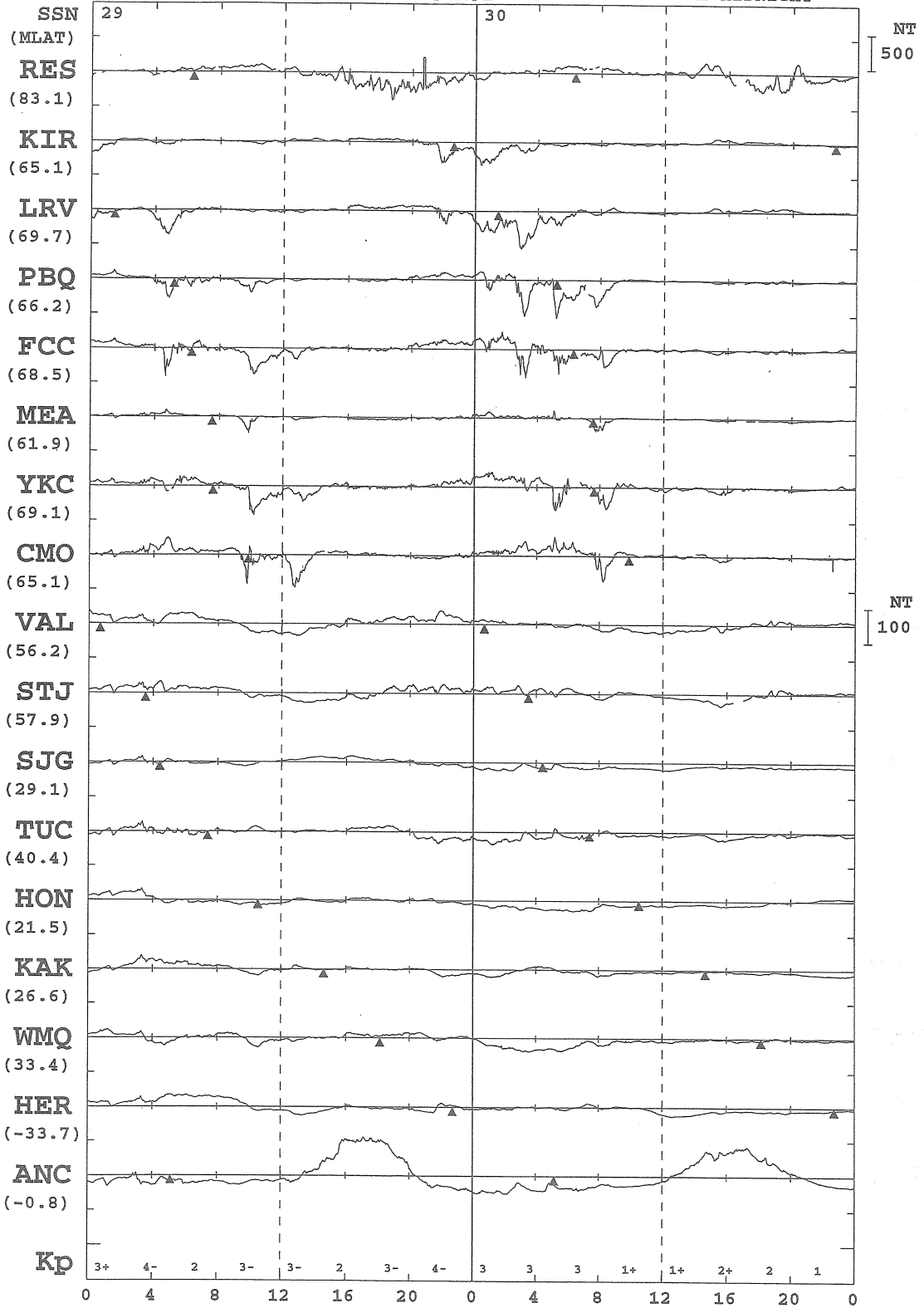
JUL 28
(DAY 209)

* 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

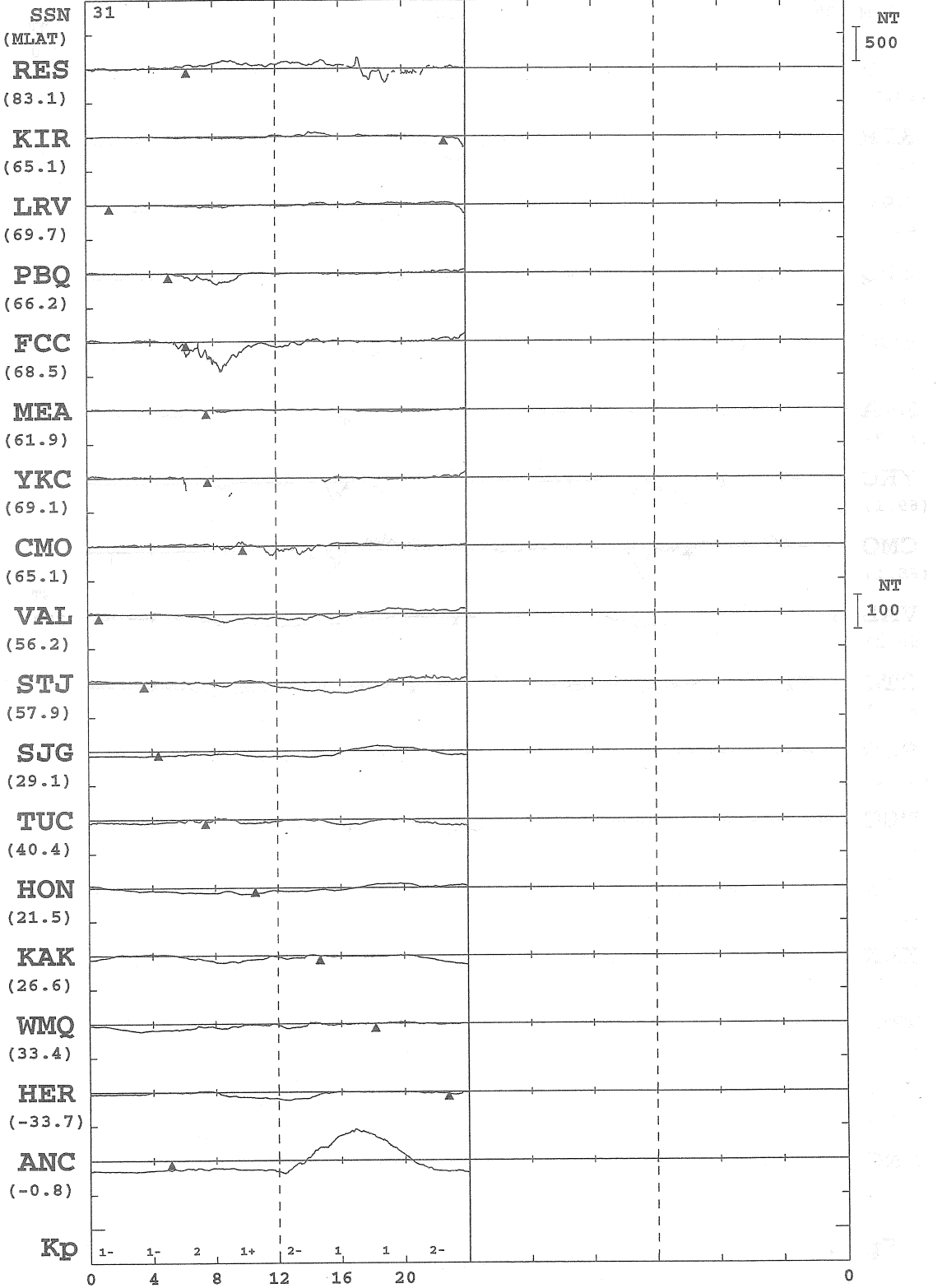


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



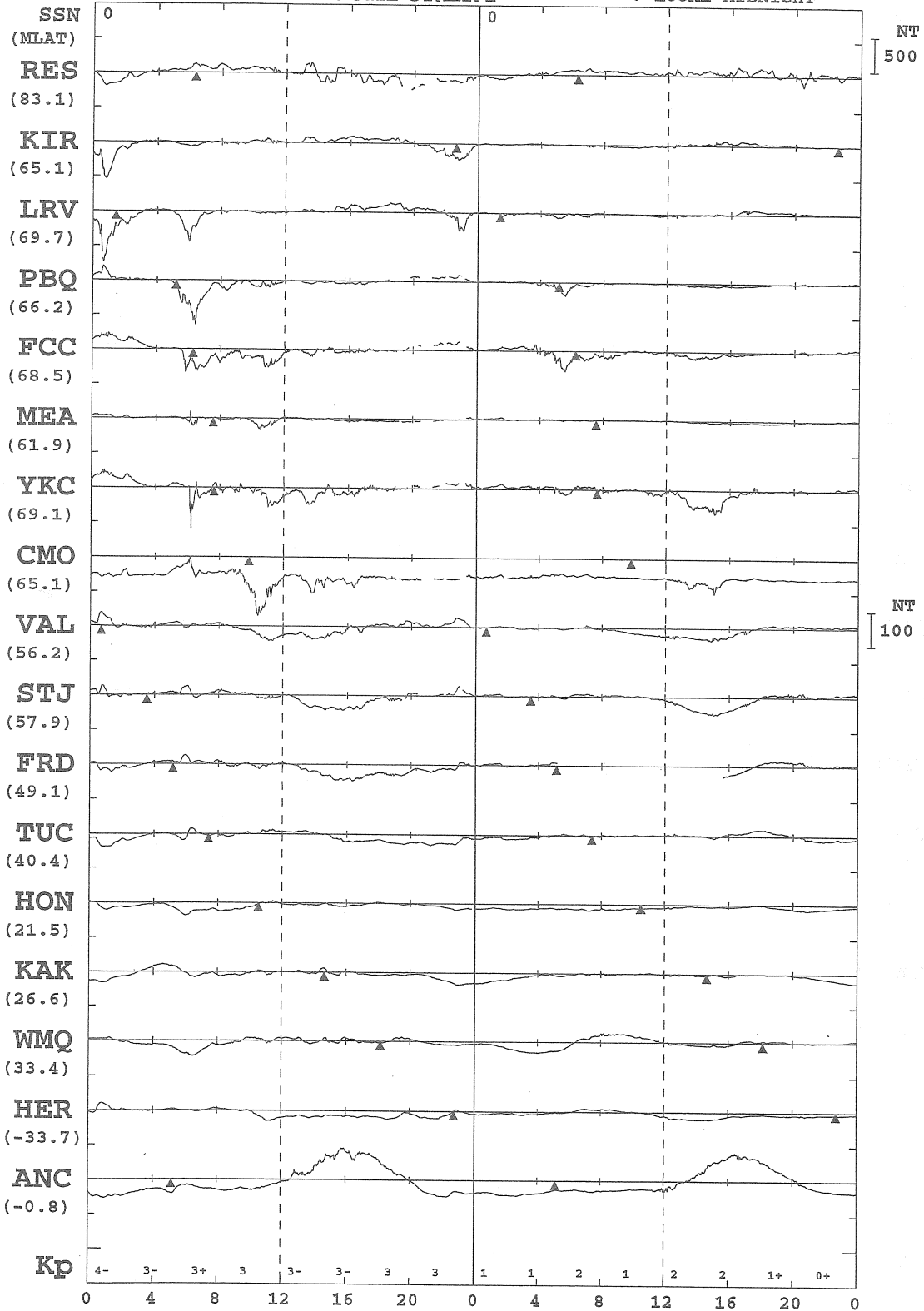
JUL 31
(DAY 212)

* 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

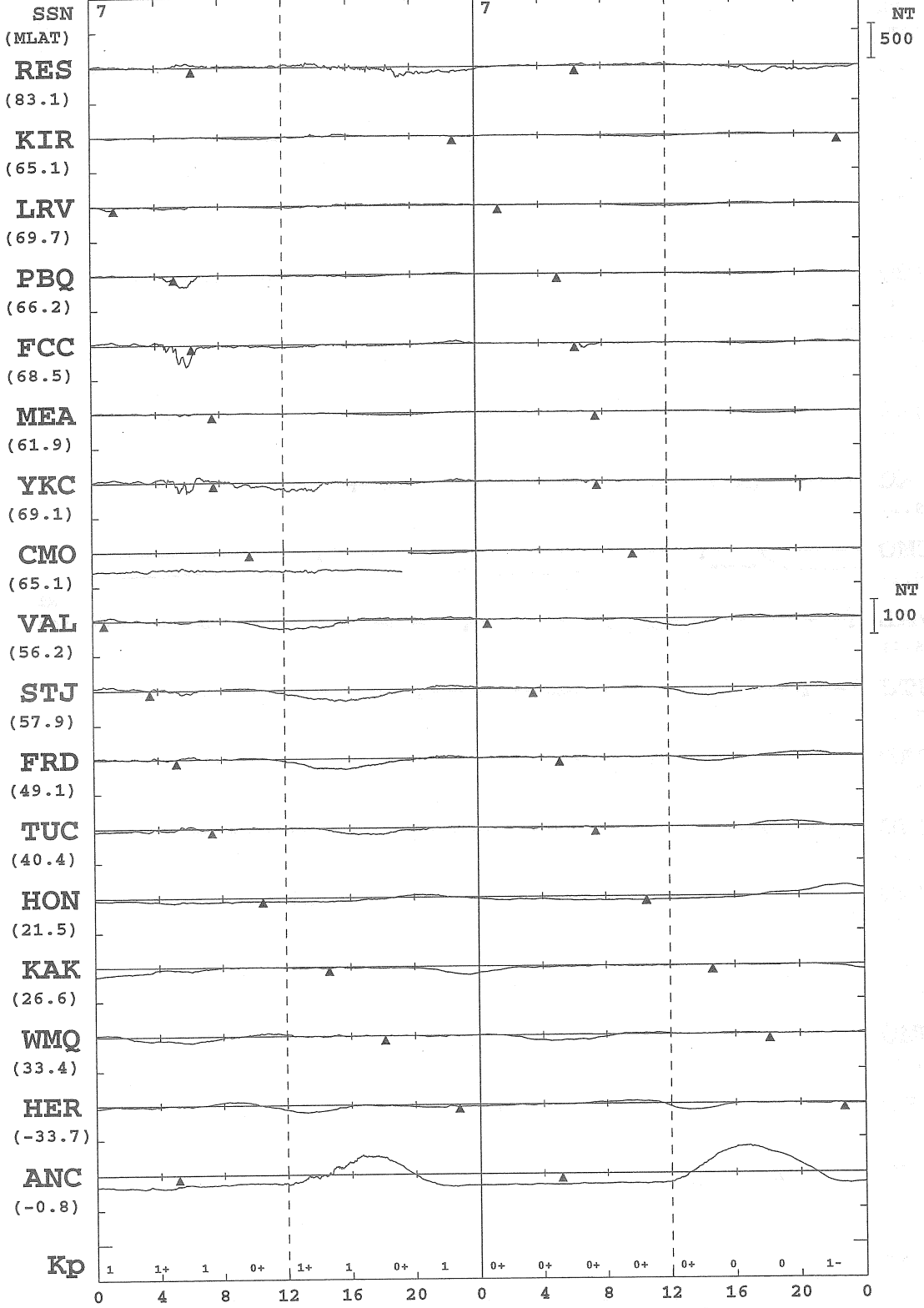


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

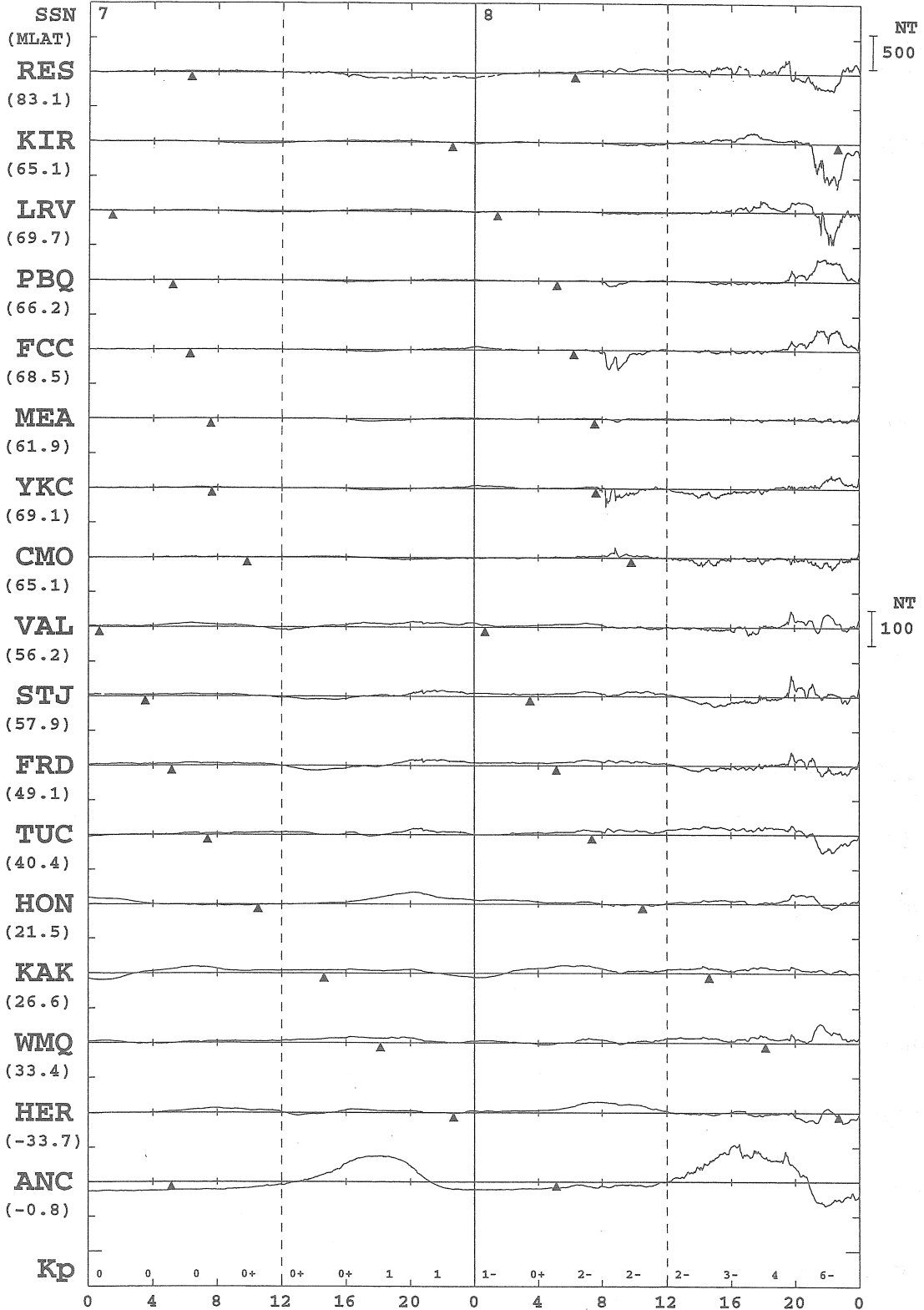


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

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2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



AUG 5
(DAY 217)

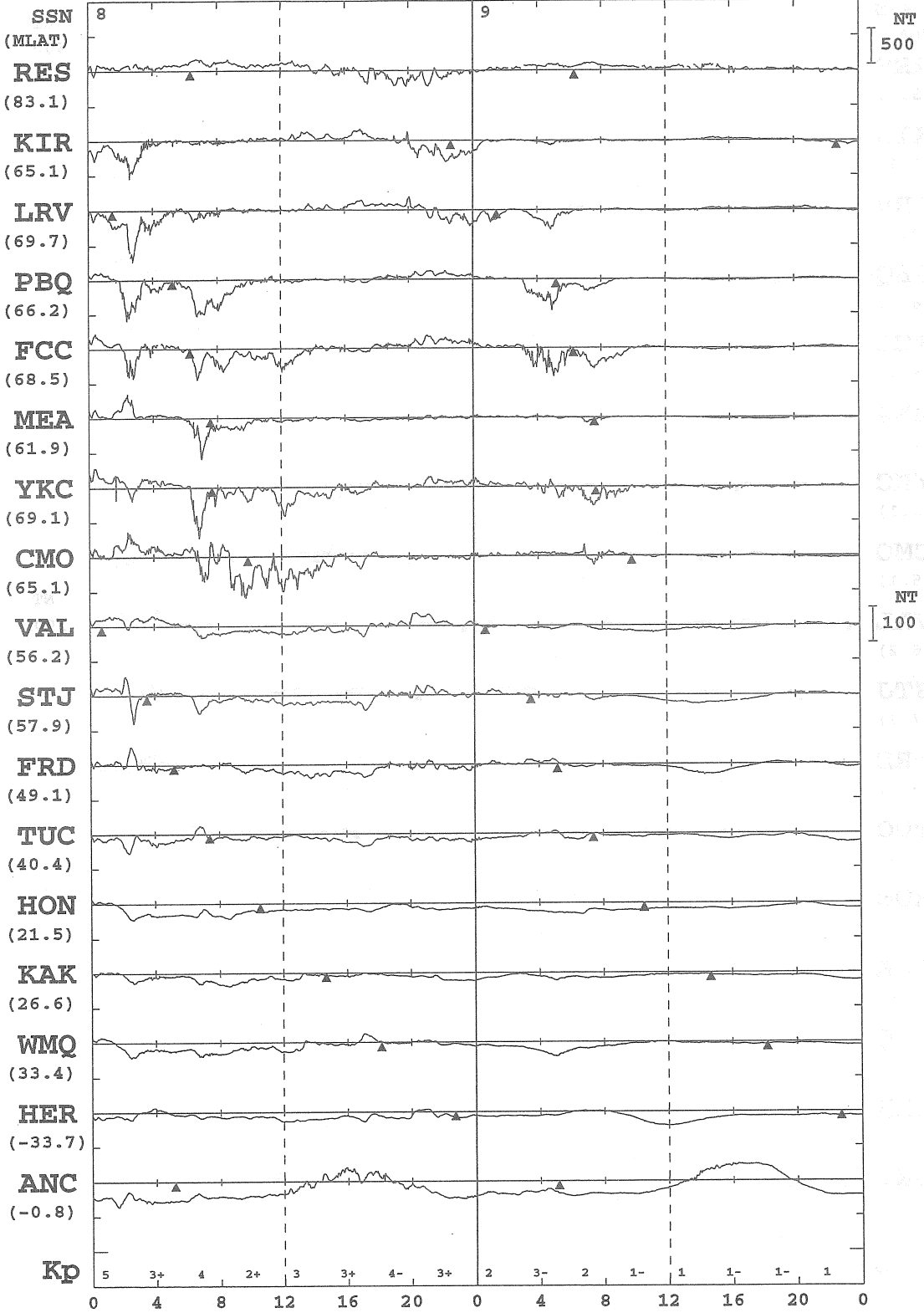
AUG 6
(DAY 218)

* 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

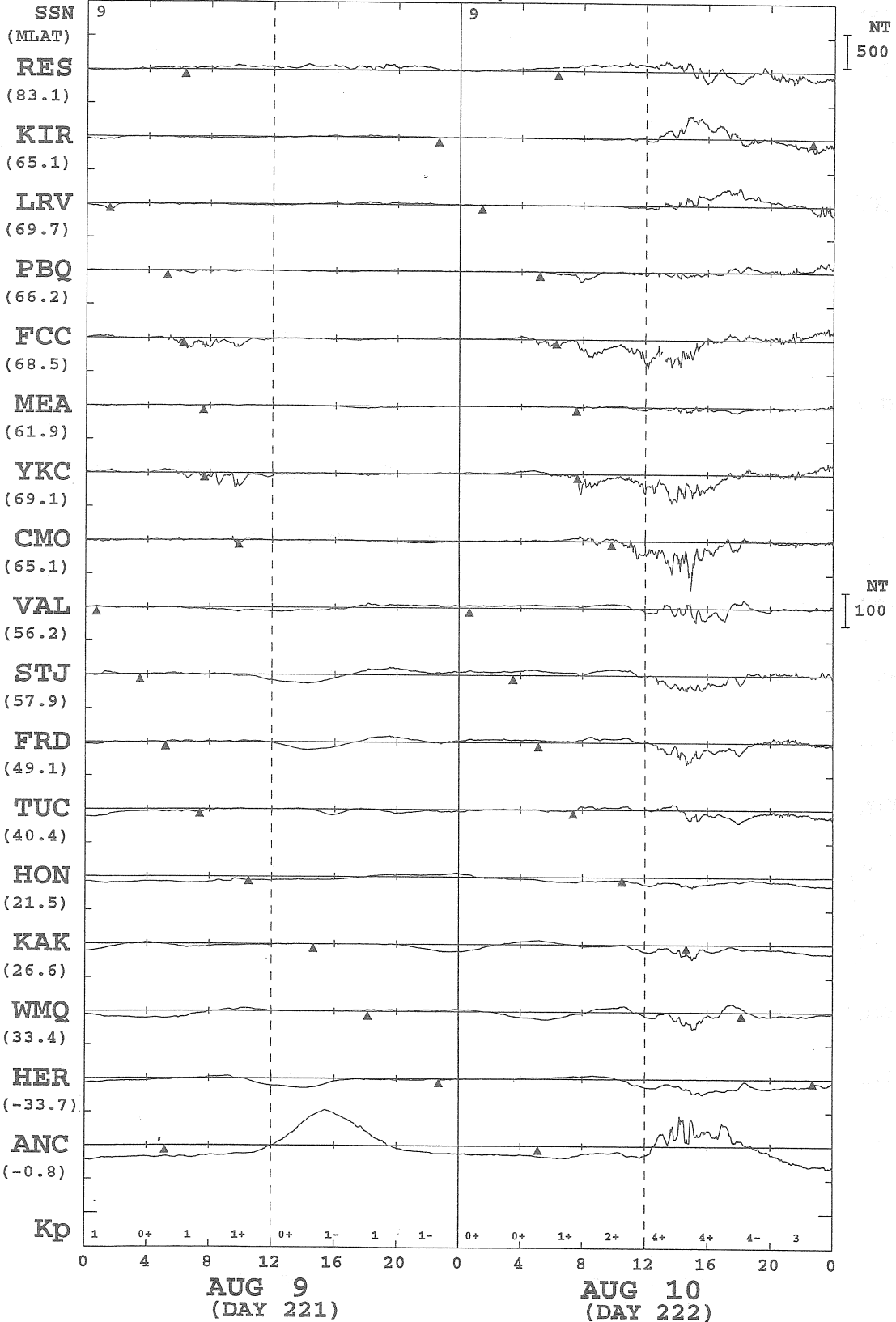


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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KYORO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

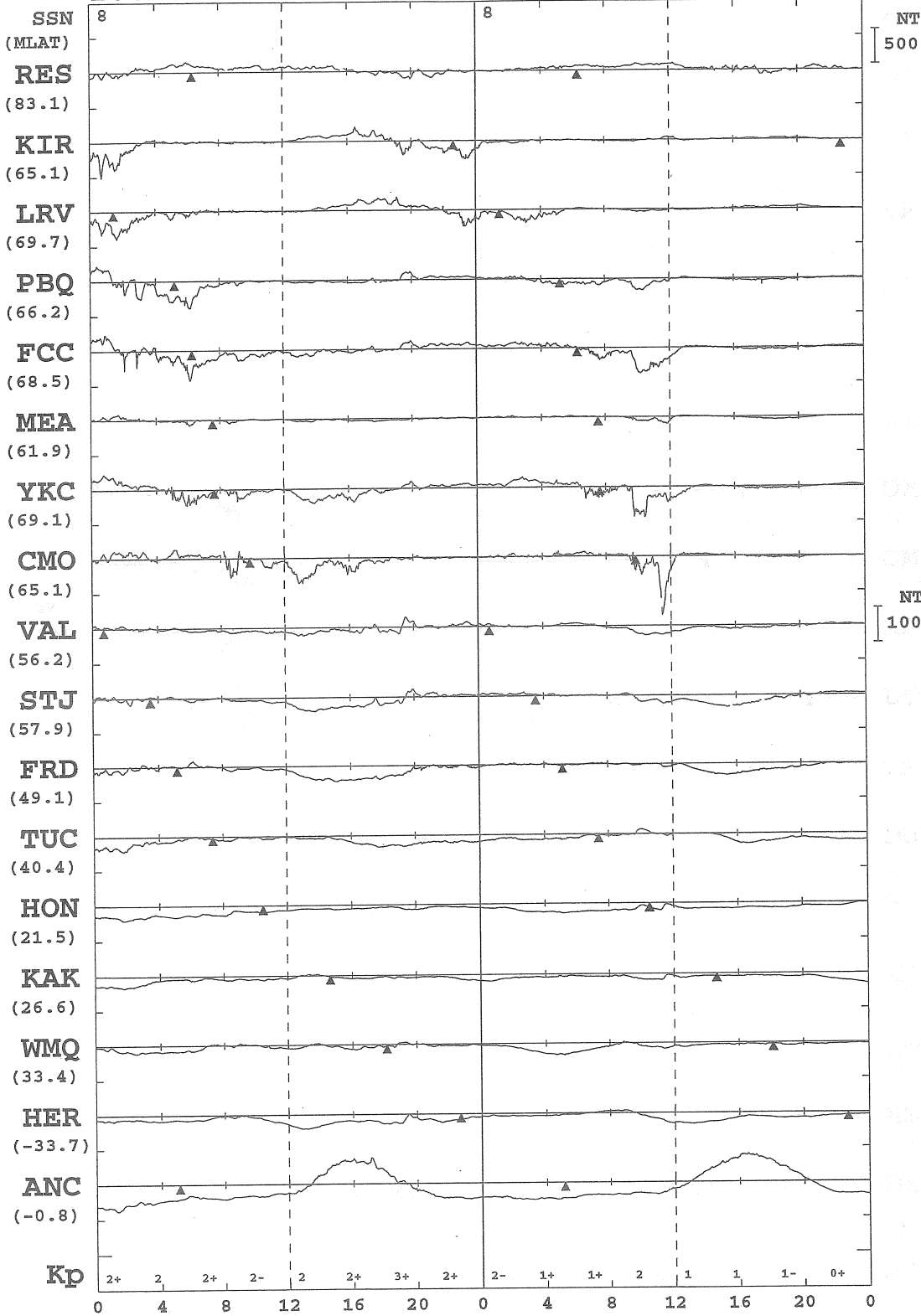


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

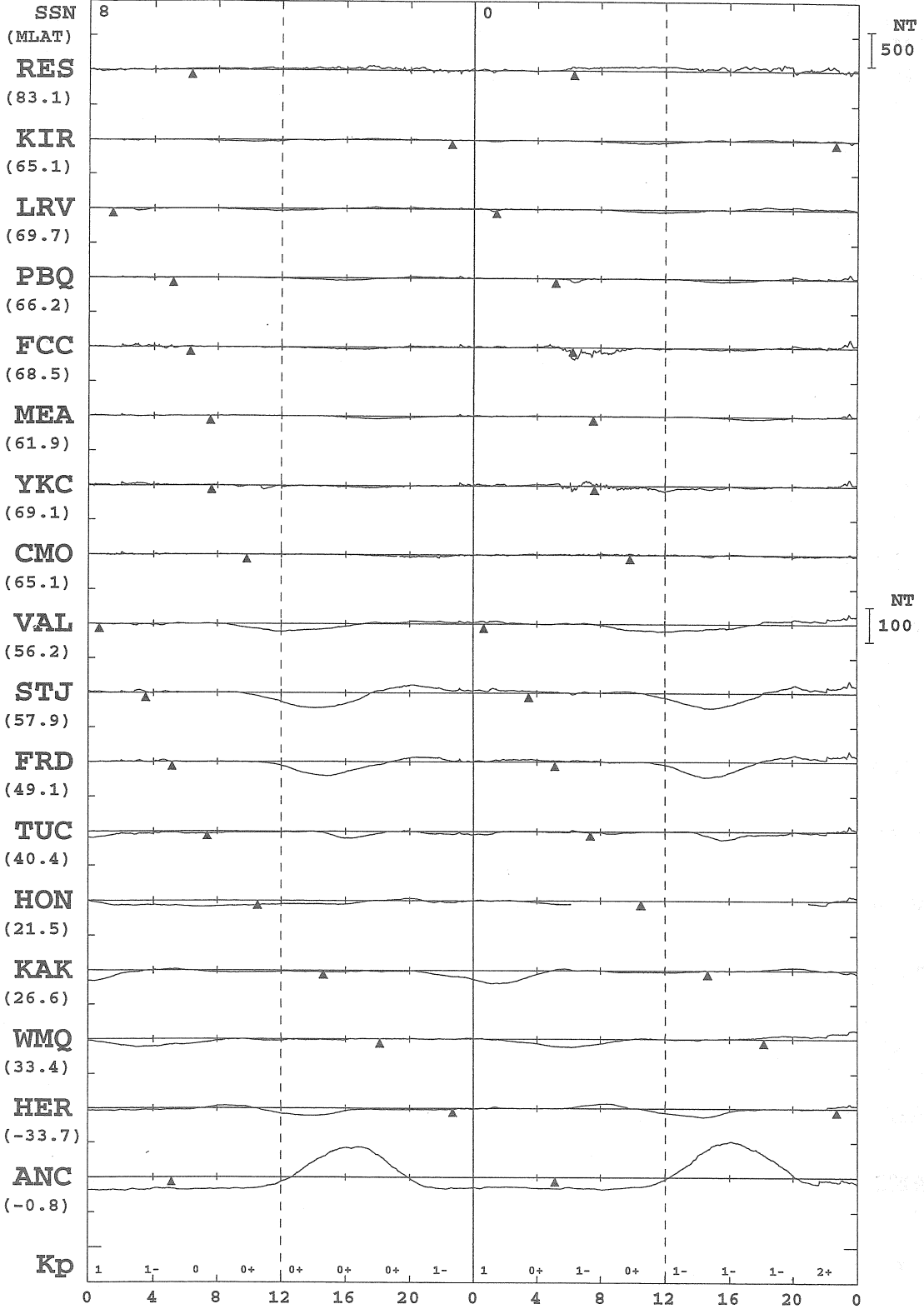


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

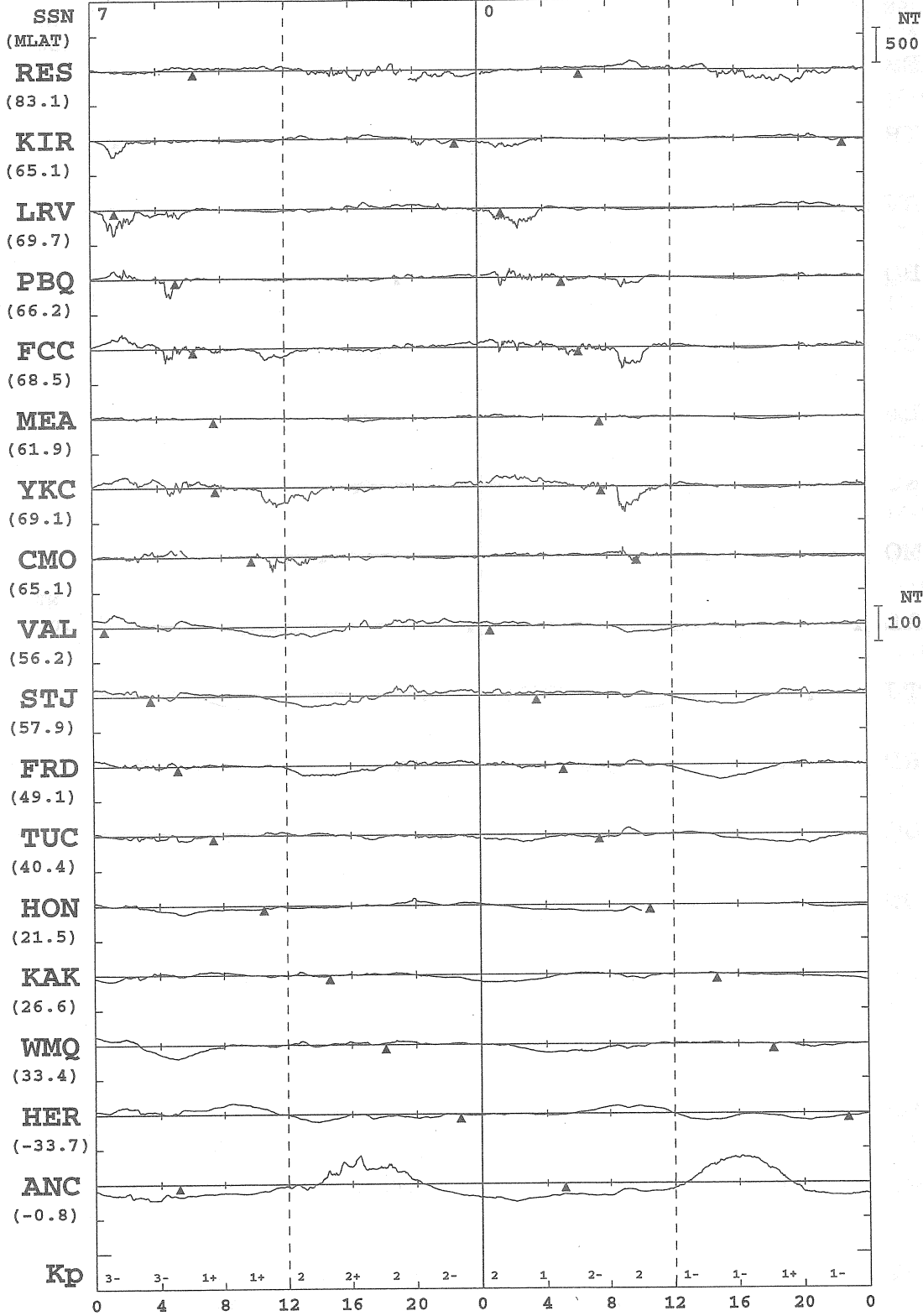


* MONTHLY MEAN OF 5-QULET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

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2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



AUG 15
(DAY 227)

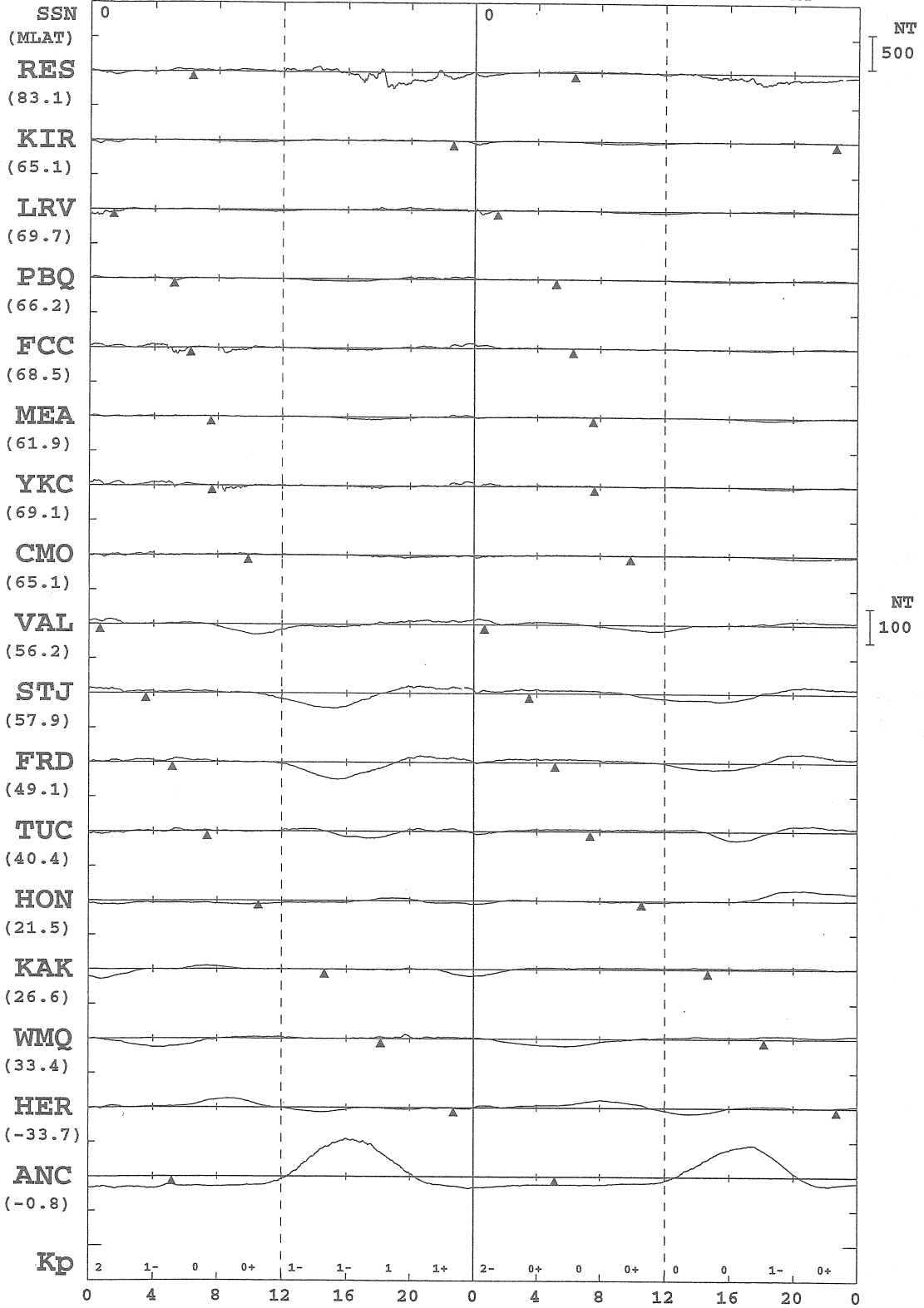
AUG 16
(DAY 228)

* 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

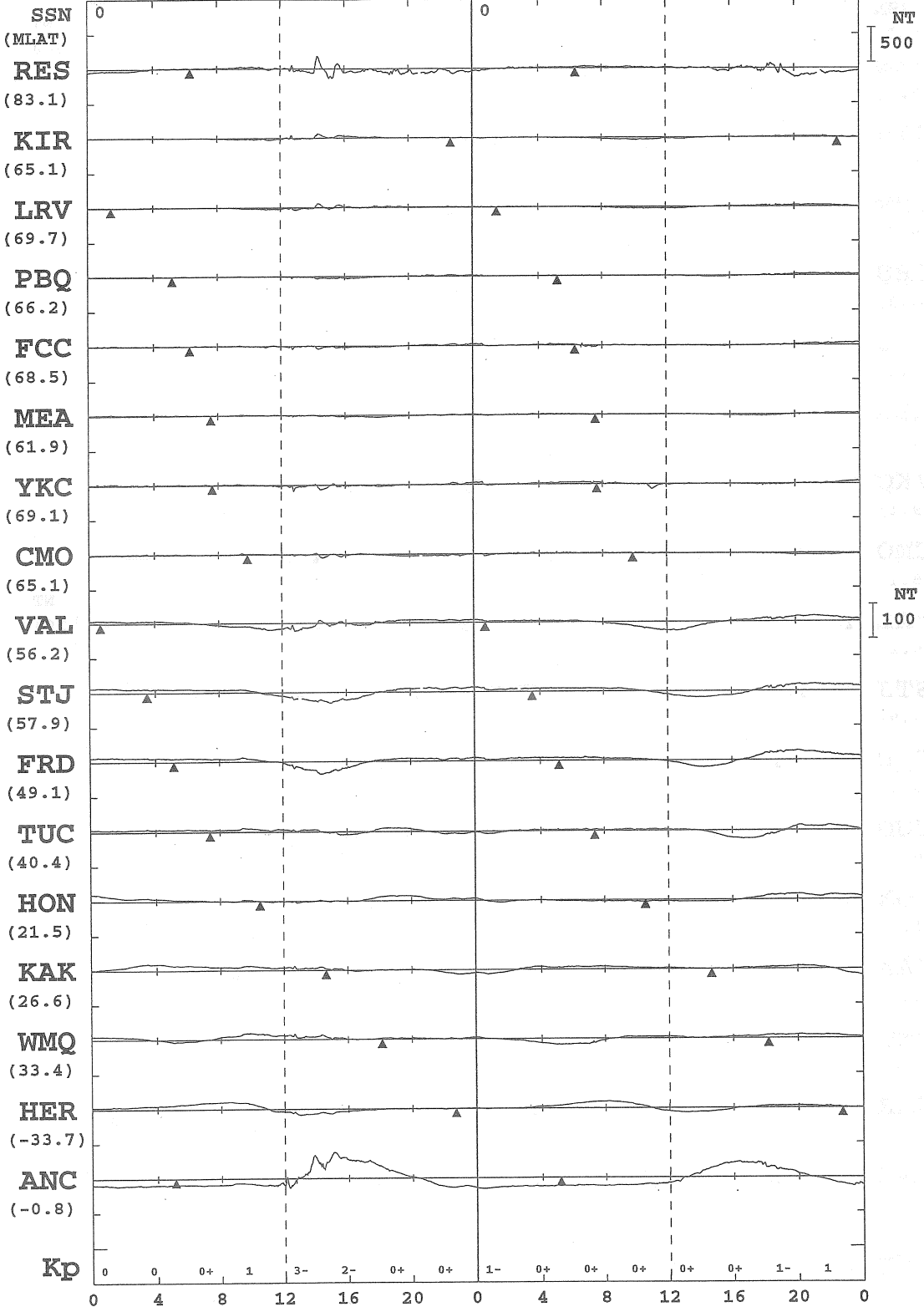


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



AUG 19
(DAY 231)

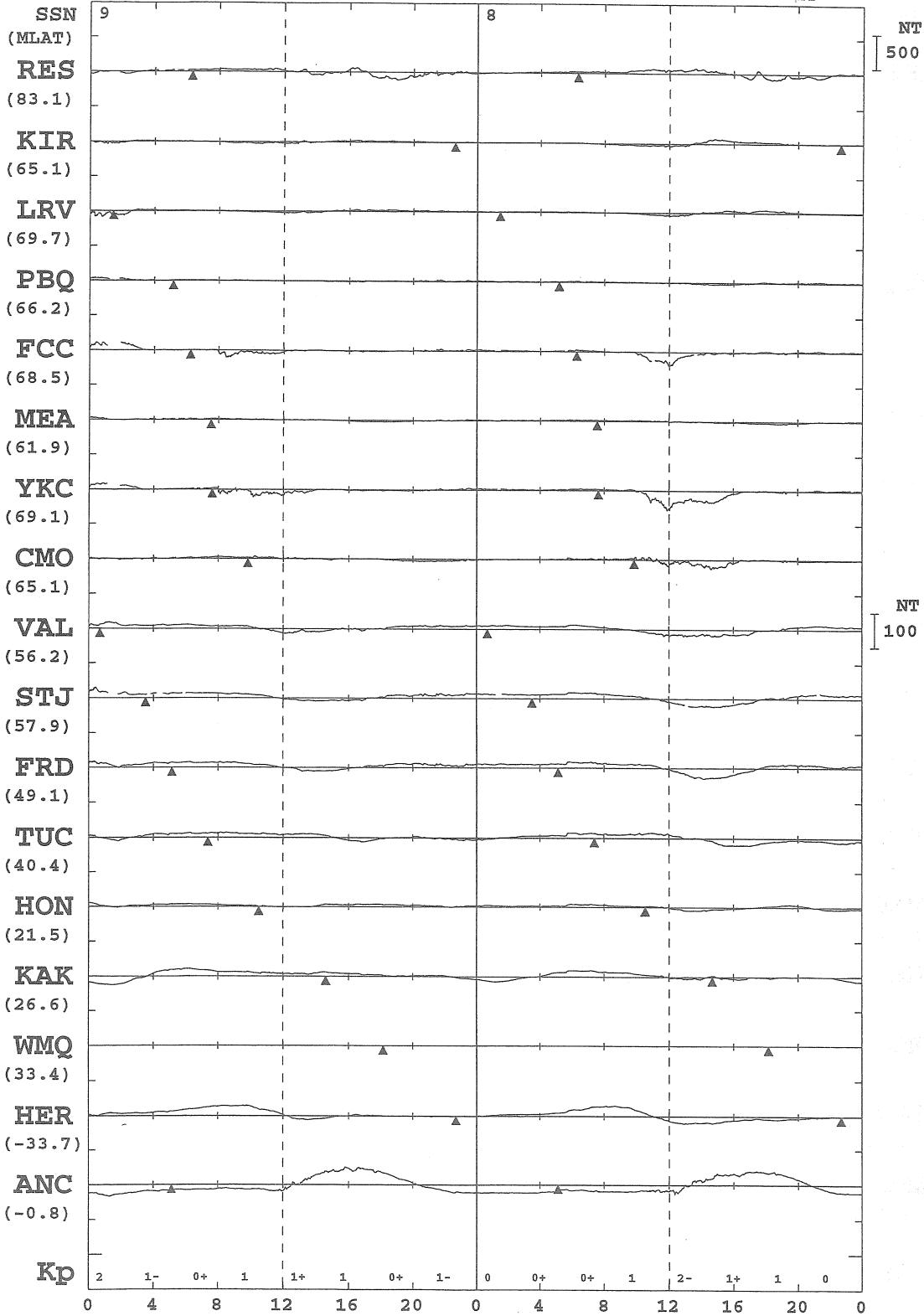
AUG 20
(DAY 232)

* 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

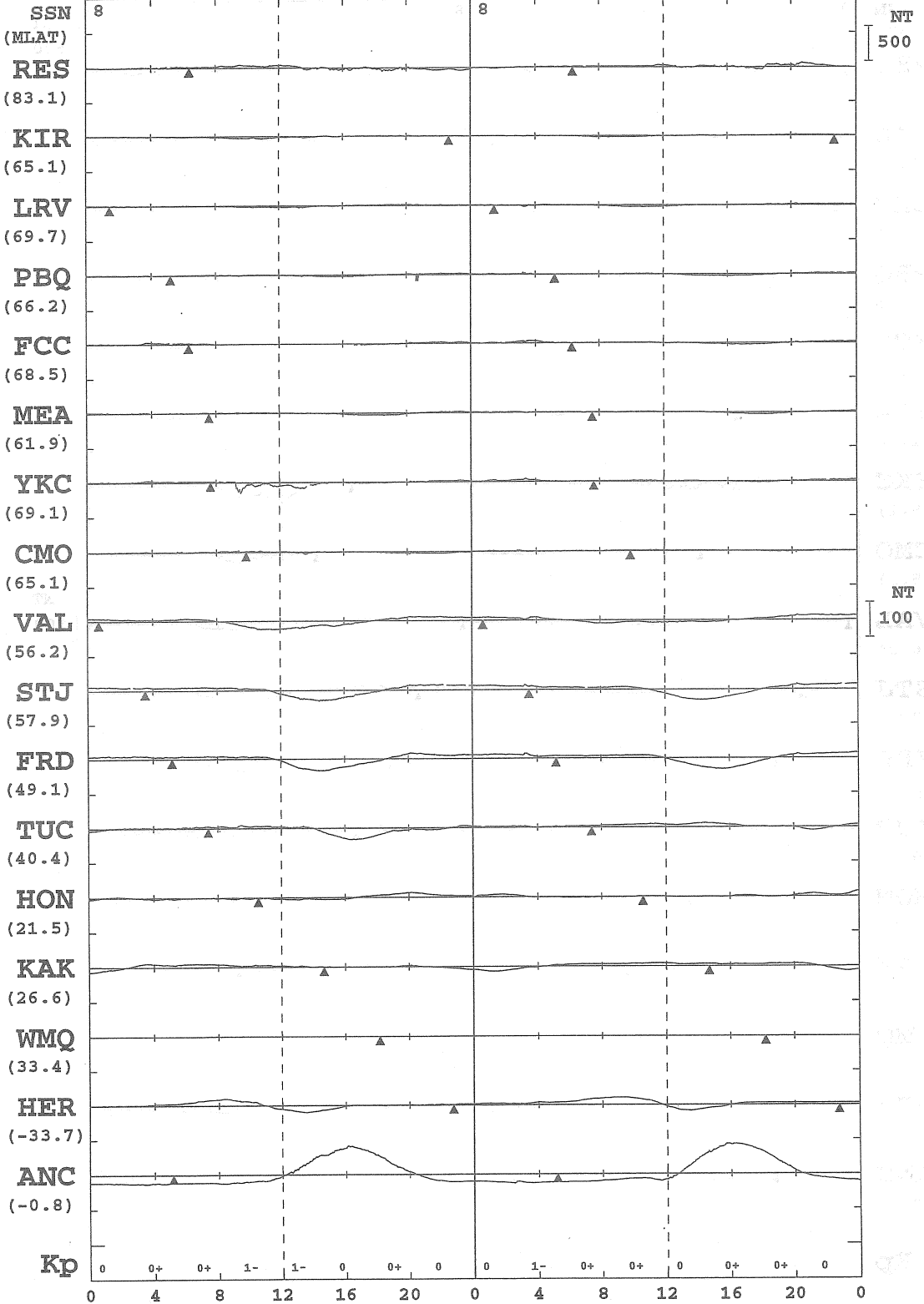


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



AUG 23
(DAY 235)

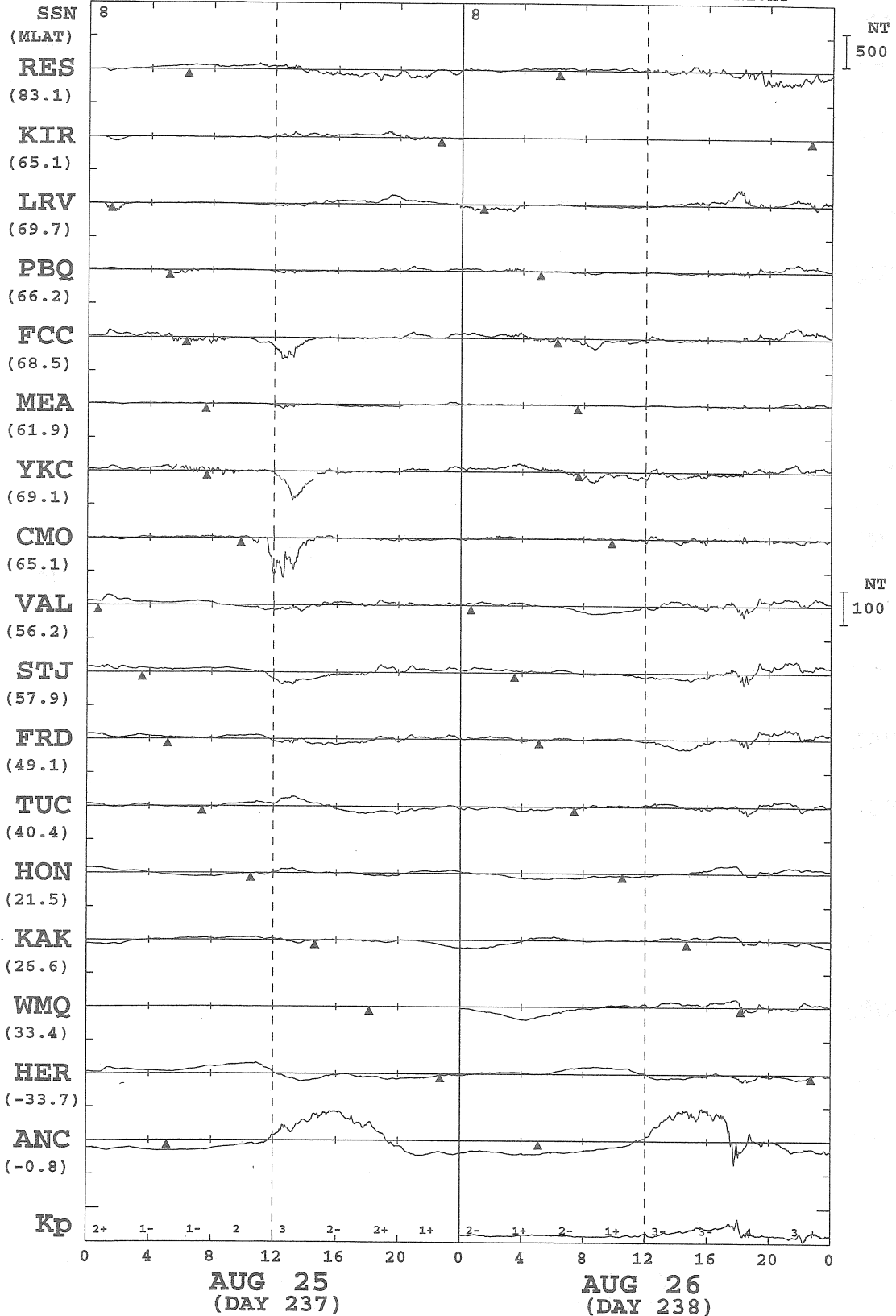
AUG 24
(DAY 236)

* 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

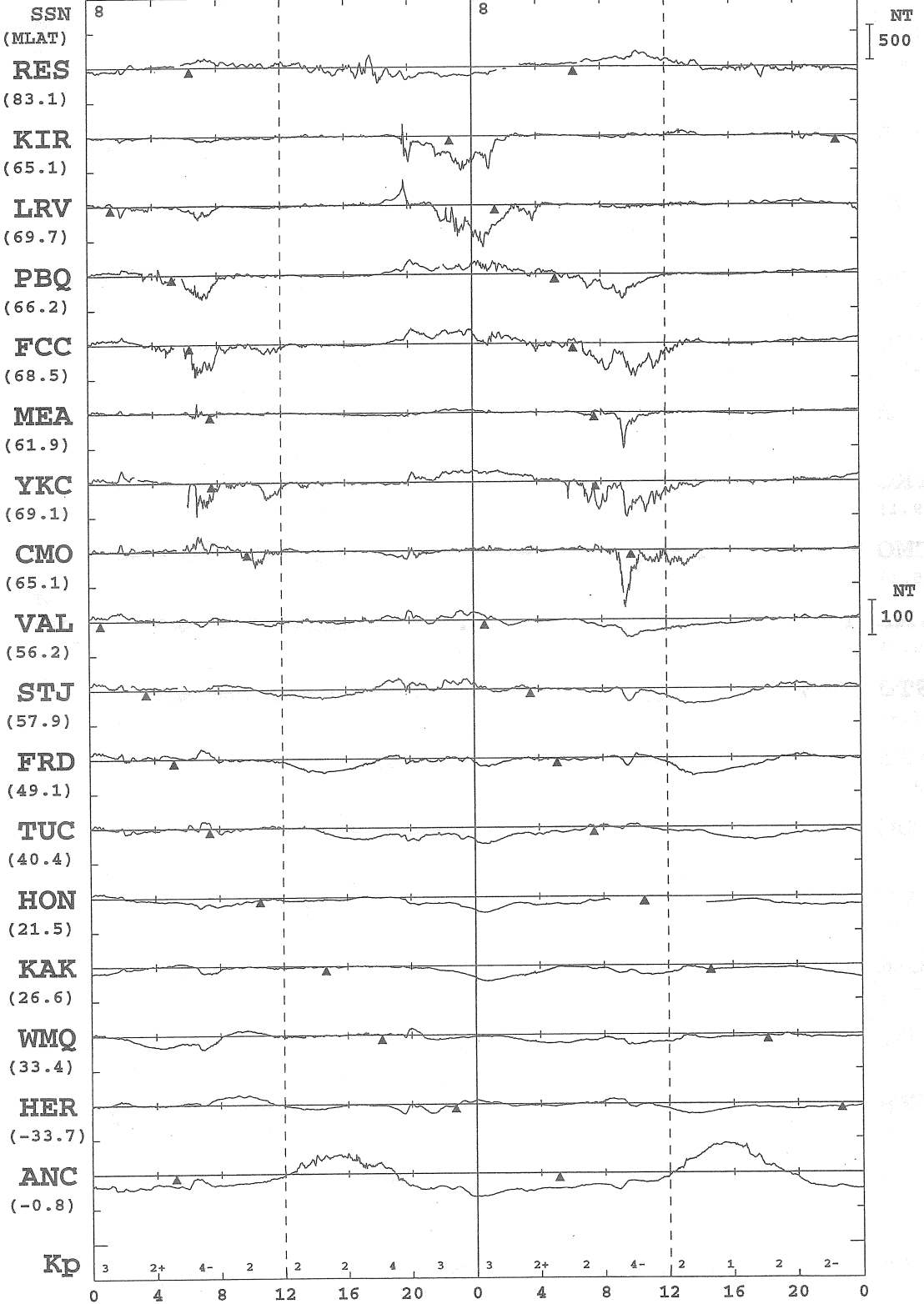


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

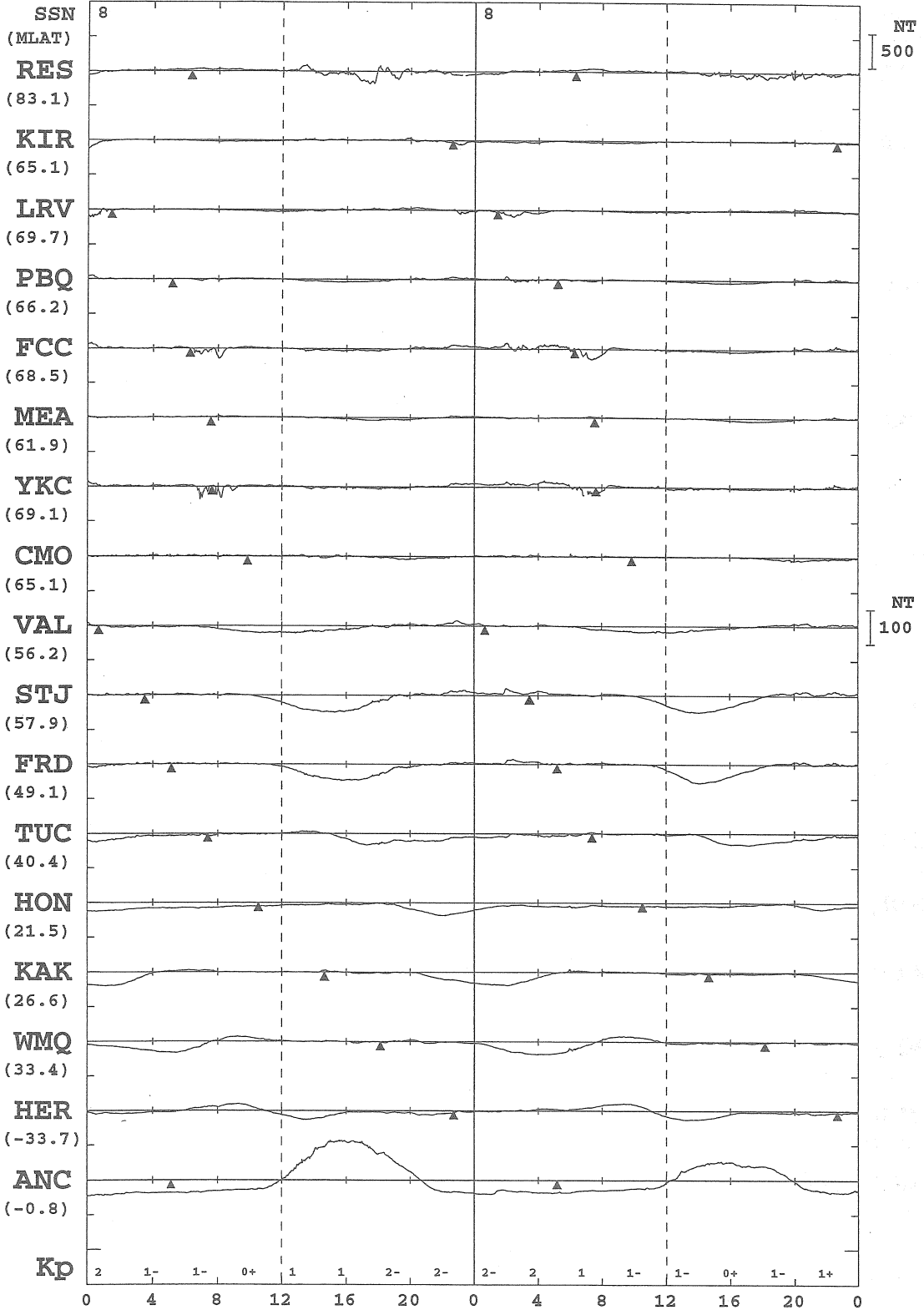


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
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2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



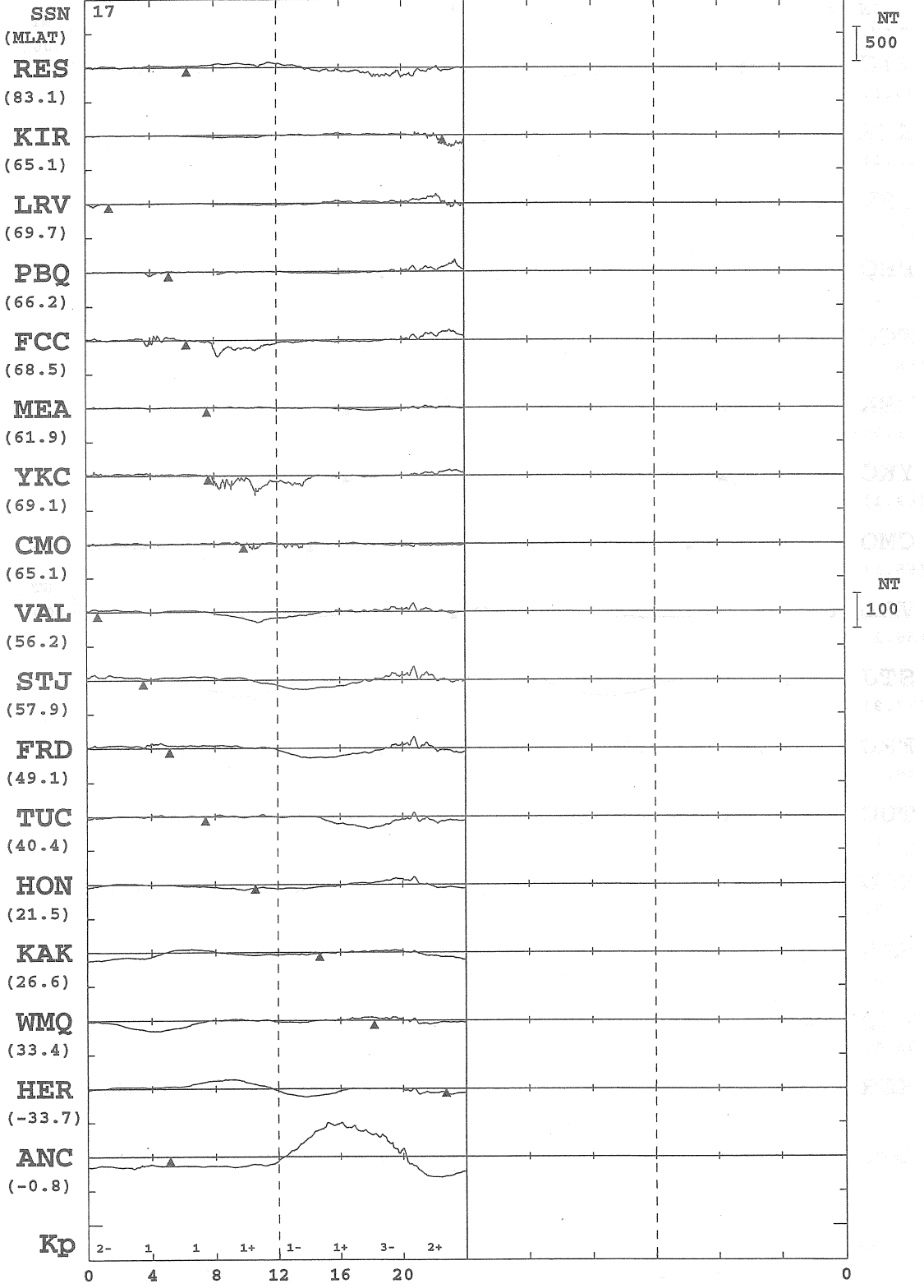
AUG 29
(DAY 241)

AUG 30
(DAY 242)

* 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



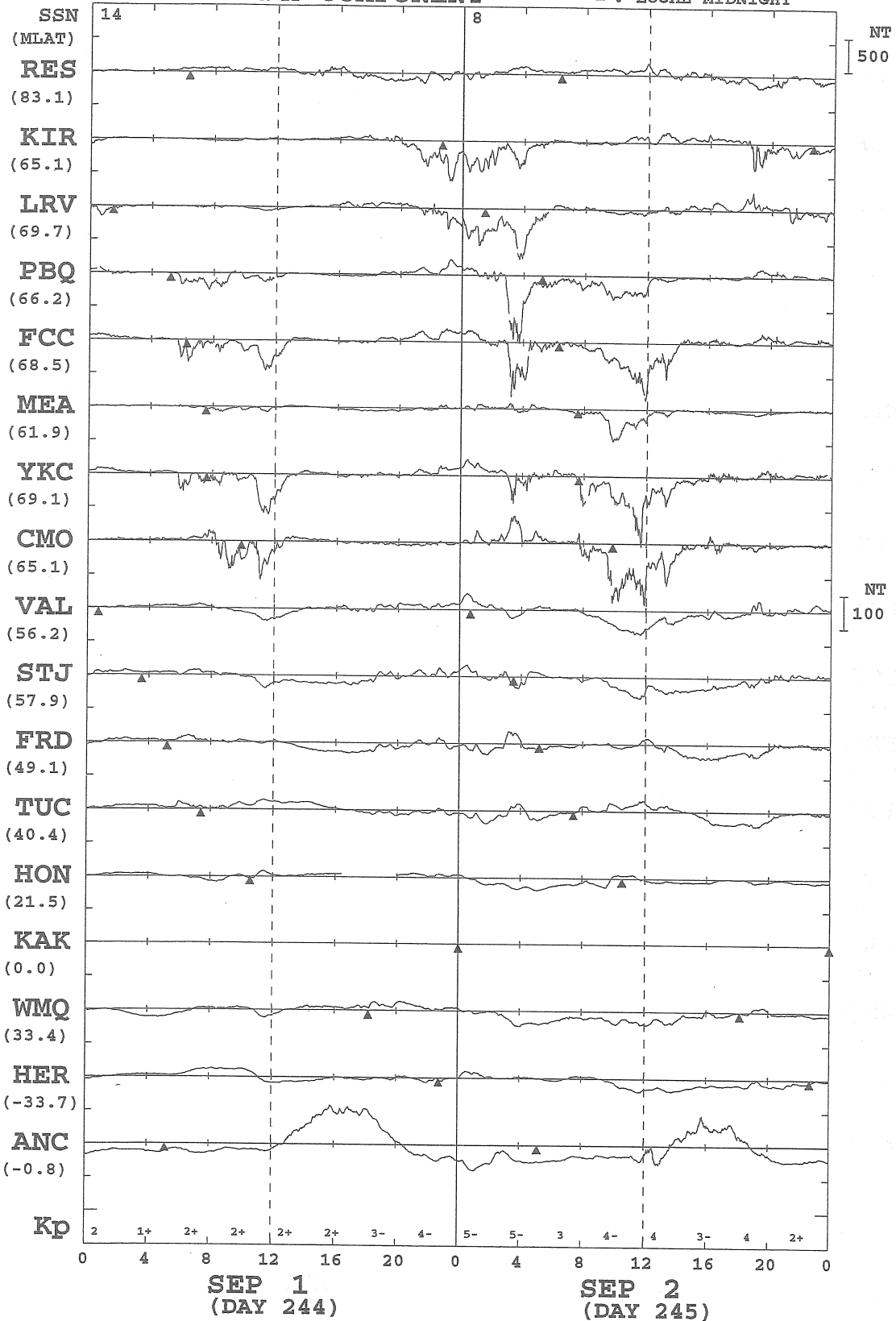
AUG 31
(DAY 243)

* 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

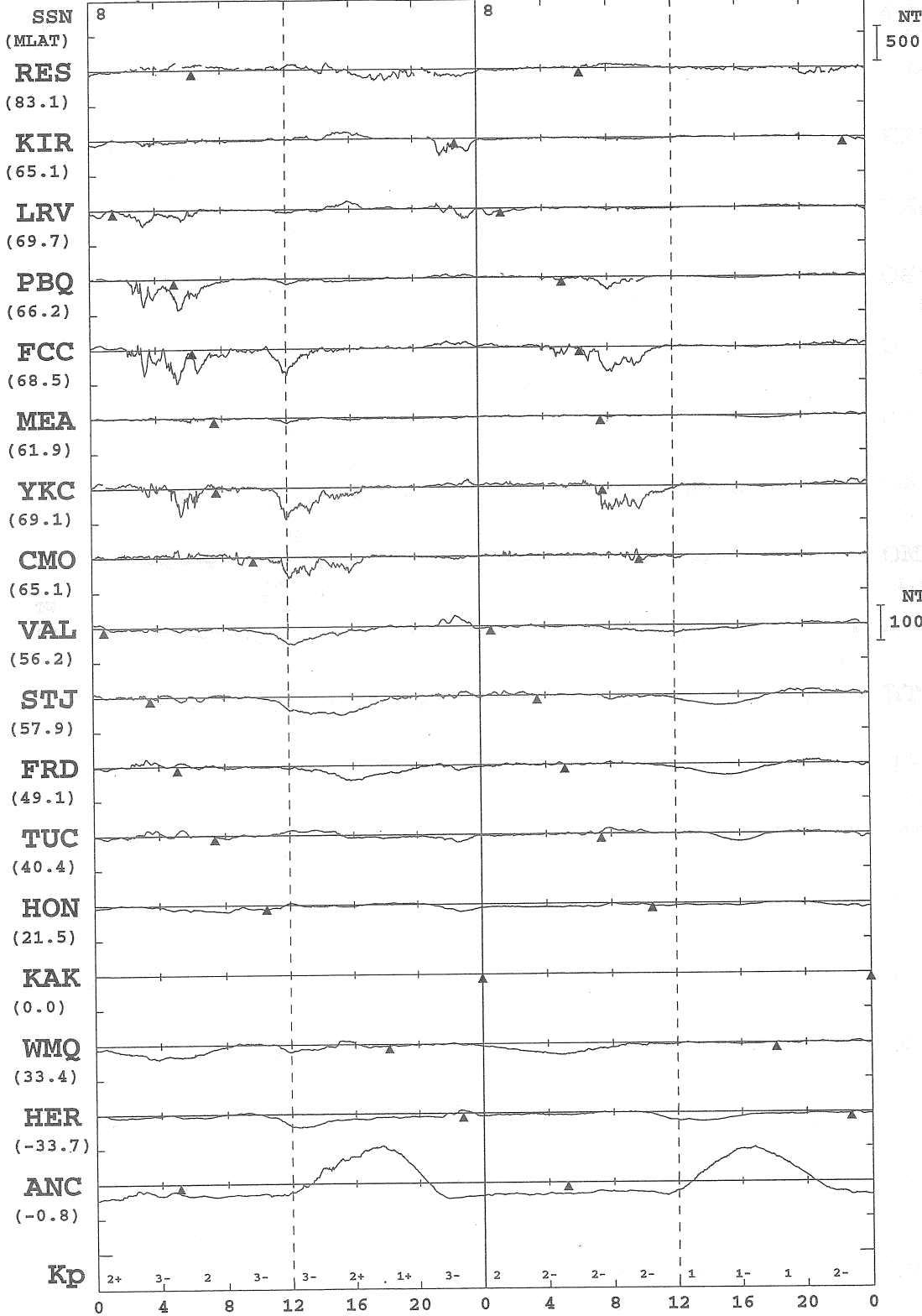


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



SEP 3 (DAY 246)

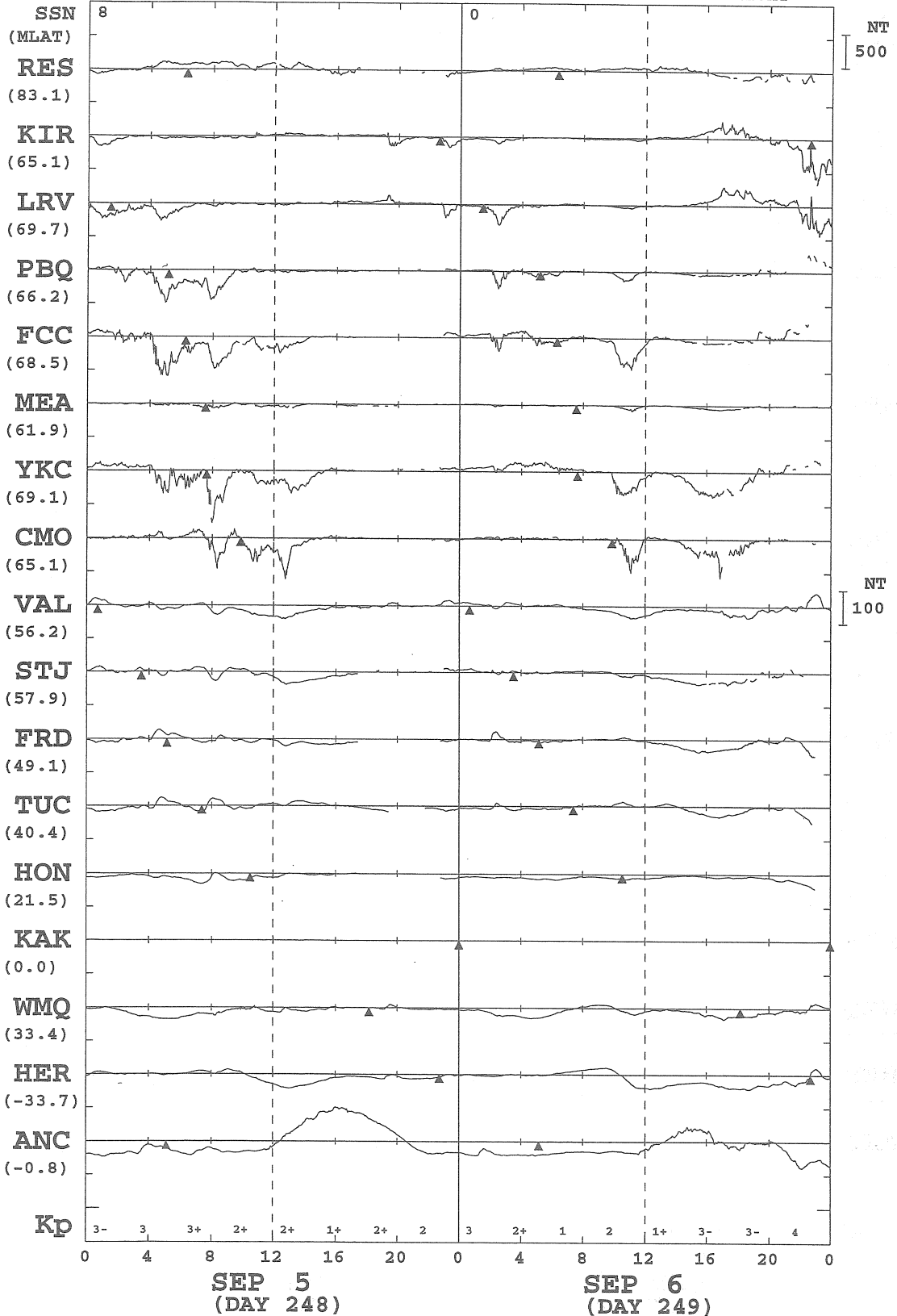
SEP 4 (DAY 247)

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

2007 H OR X-COMPONENT

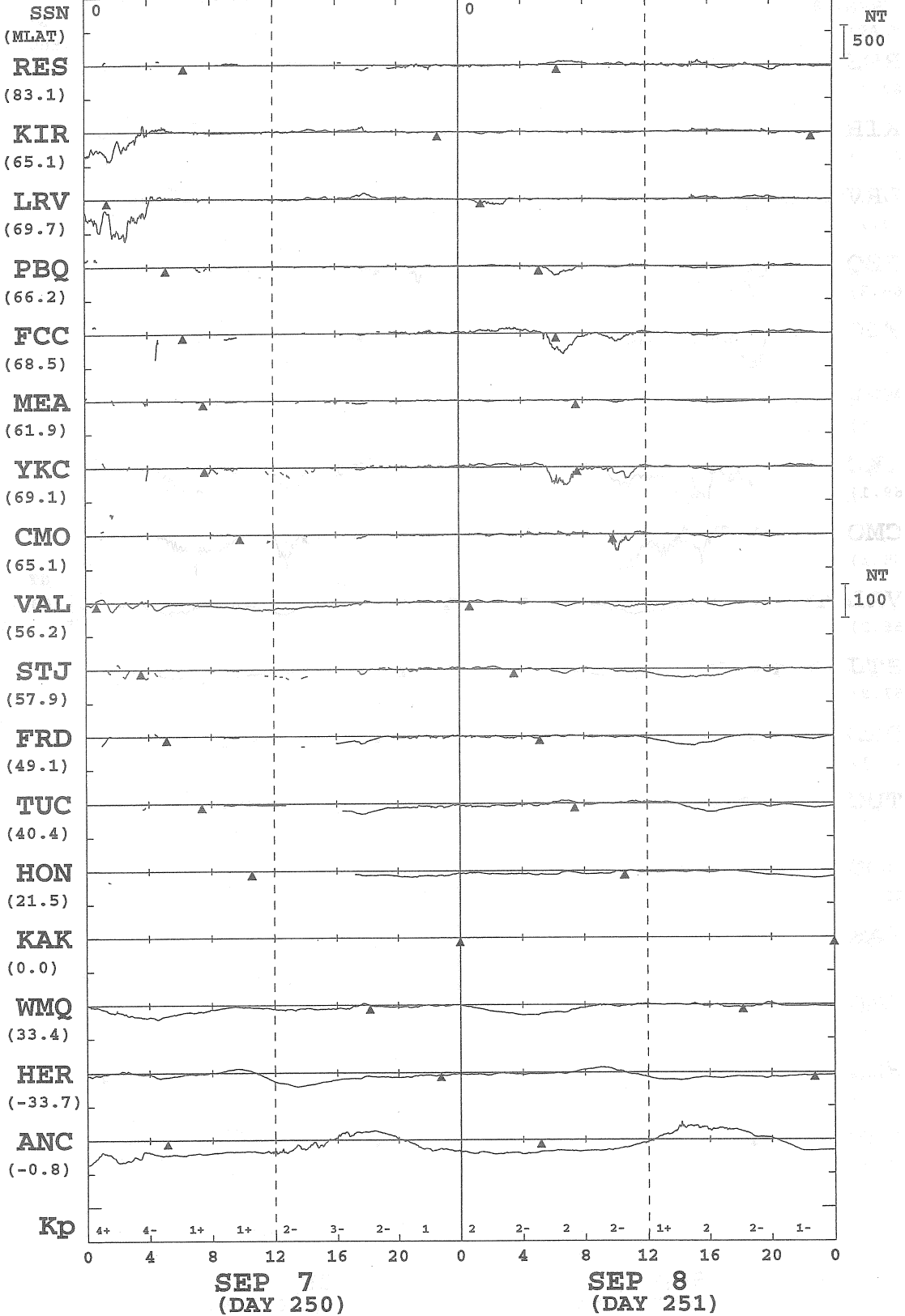
▲ : LOCAL MIDNIGHT



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

2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT

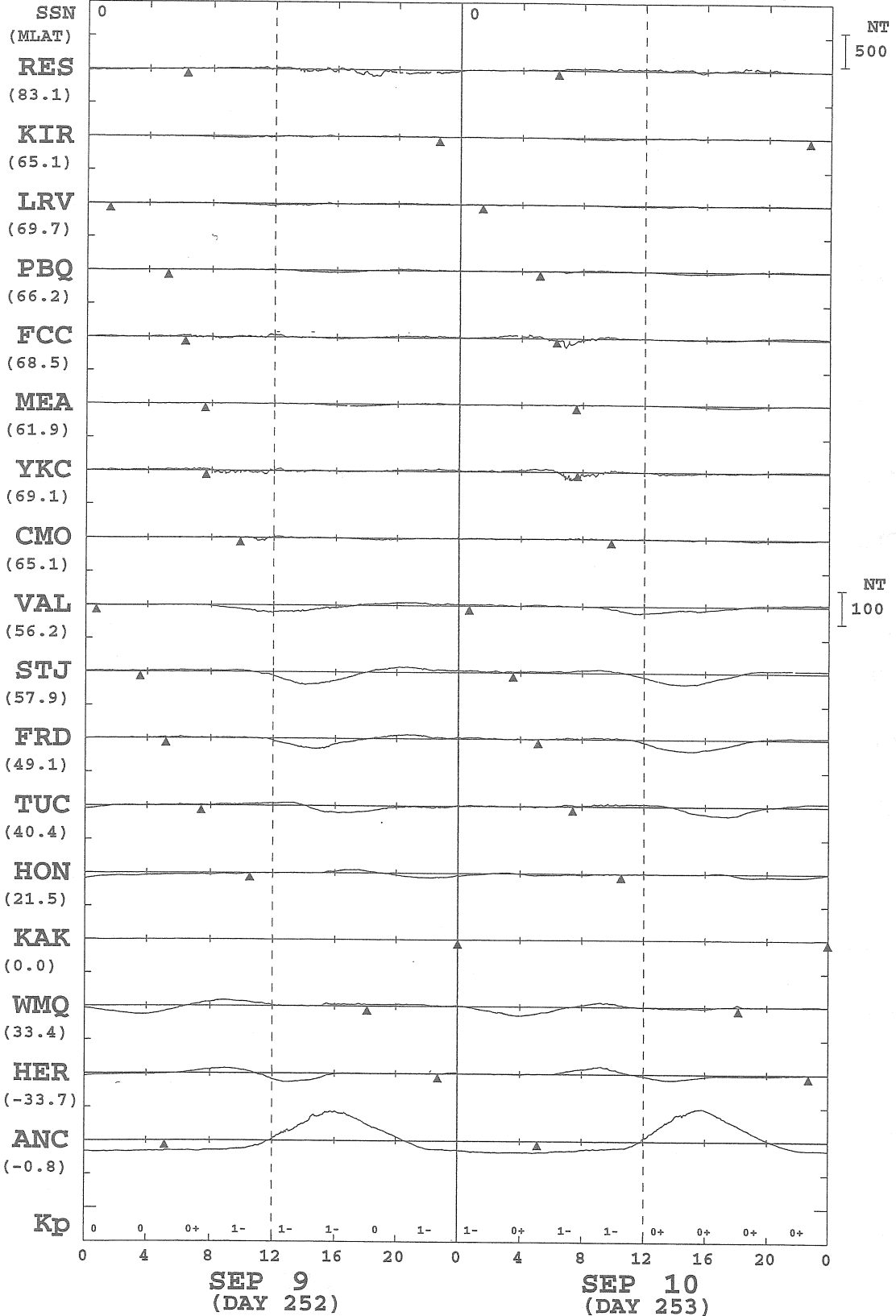


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KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

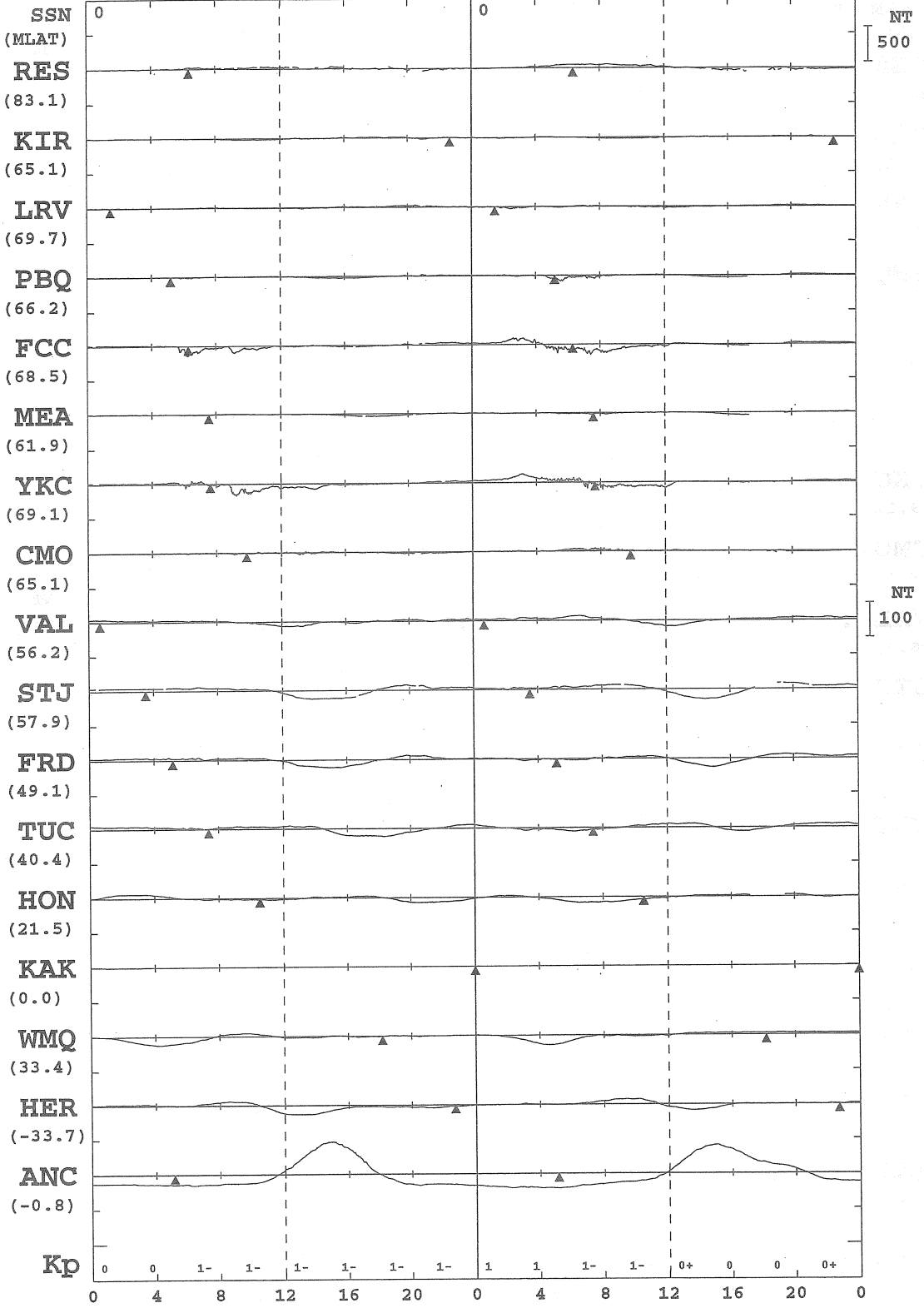


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



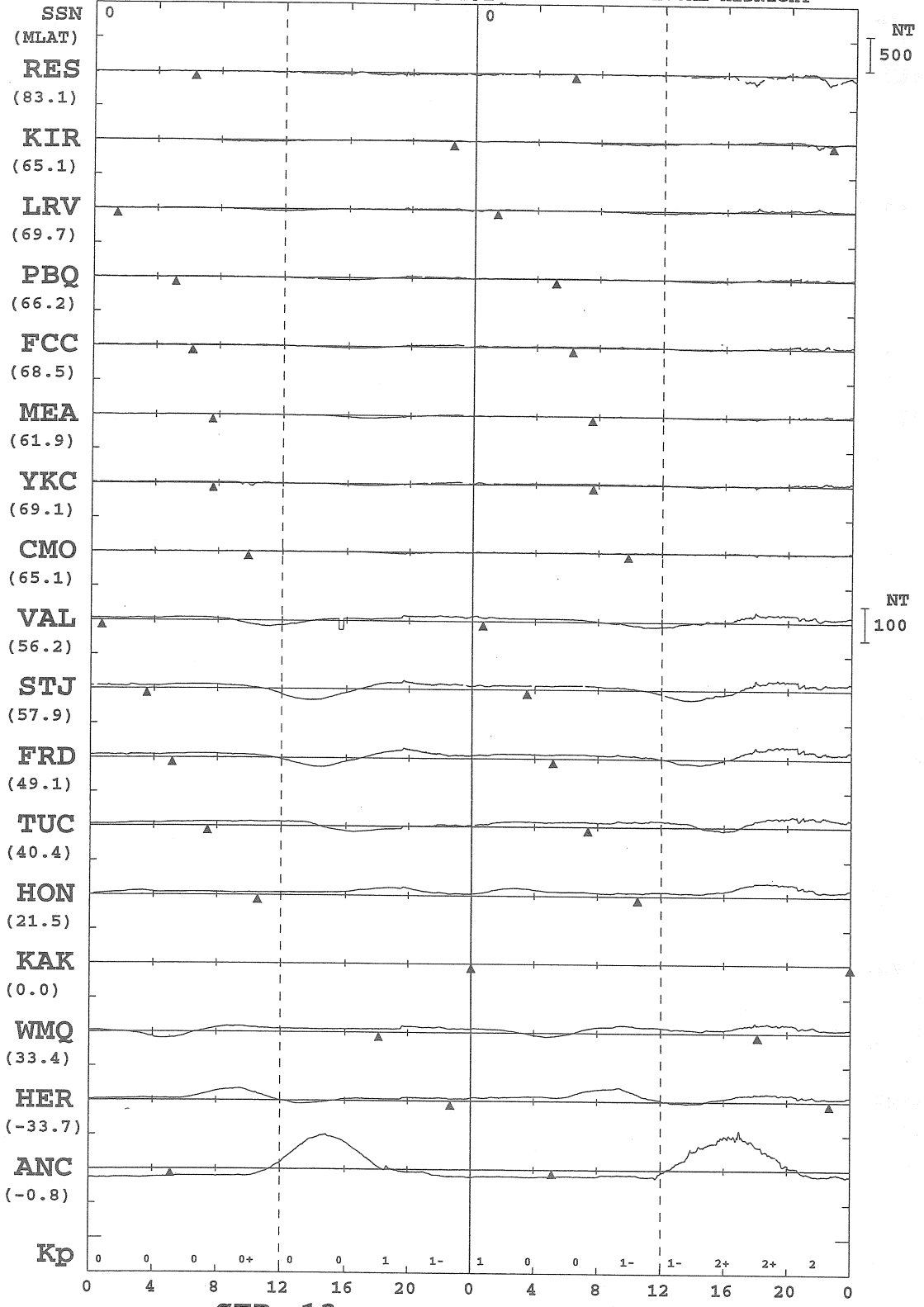
SEP 11 (DAY 254)

SEP 12 (DAY 255)

* 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



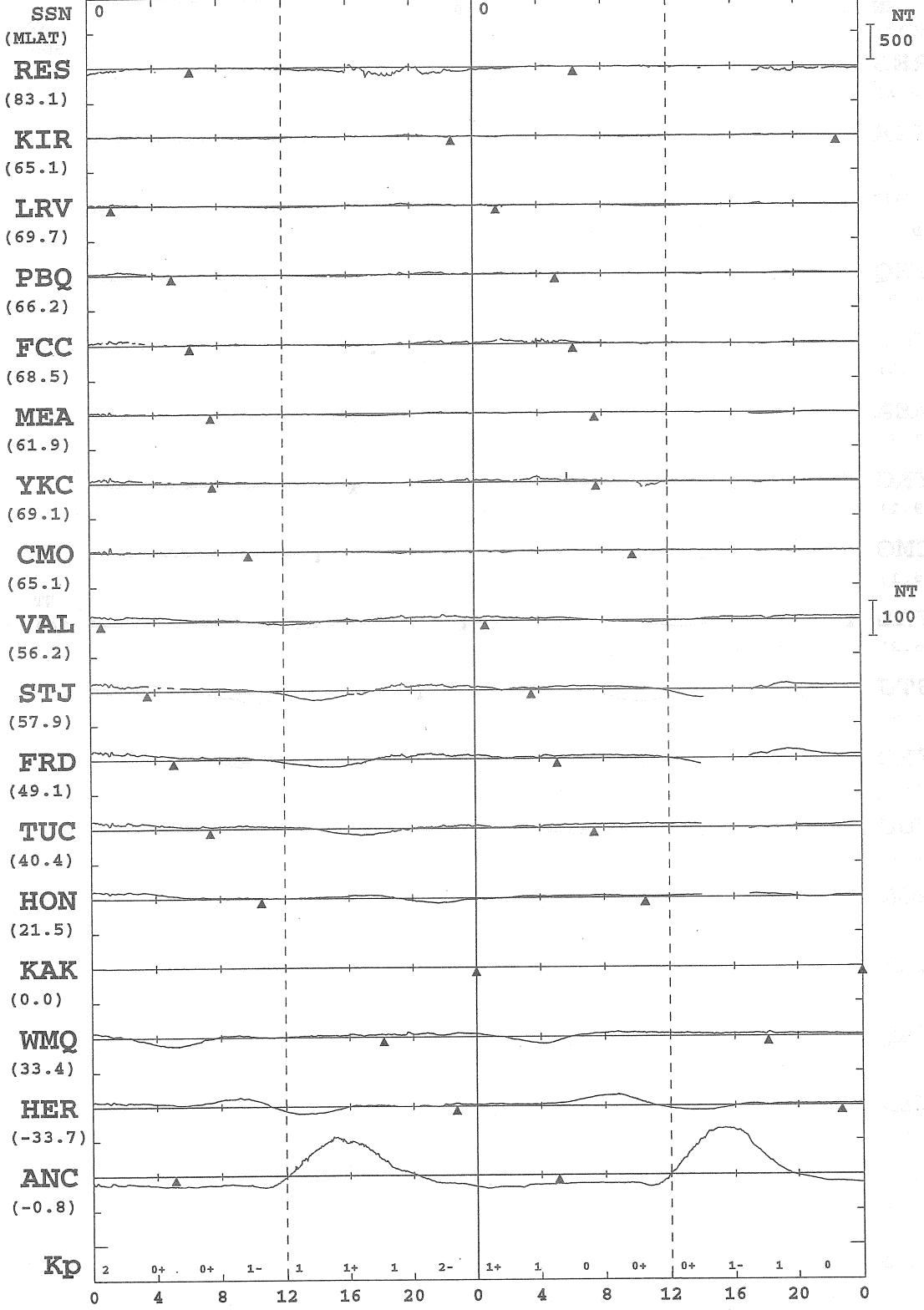
SEP 13
(DAY 256)

SEP 14
(DAY 257)

* 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

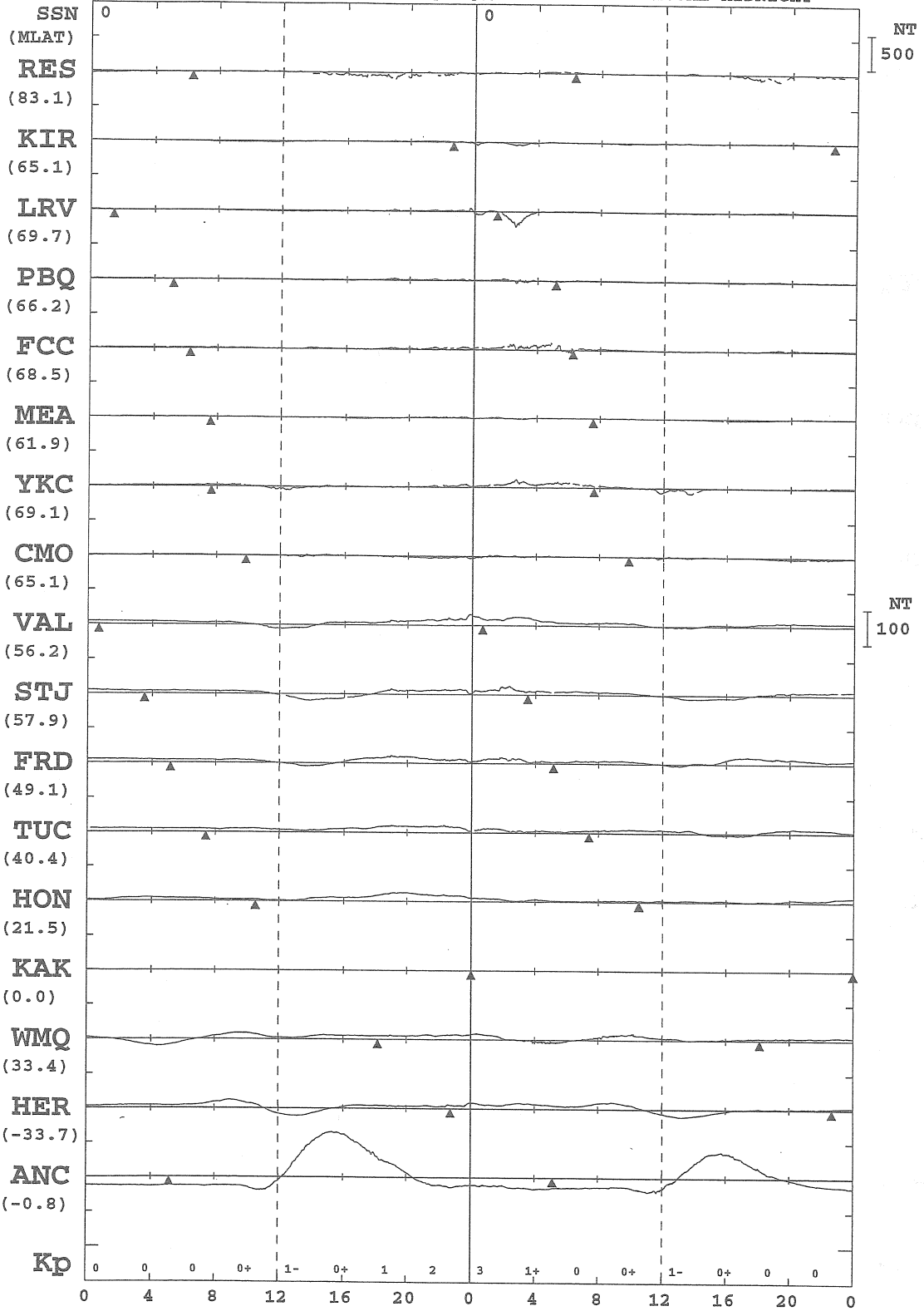


SEP 15 (DAY 258) SEP 16 (DAY 259)

* 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



SEP 17
(DAY 260)

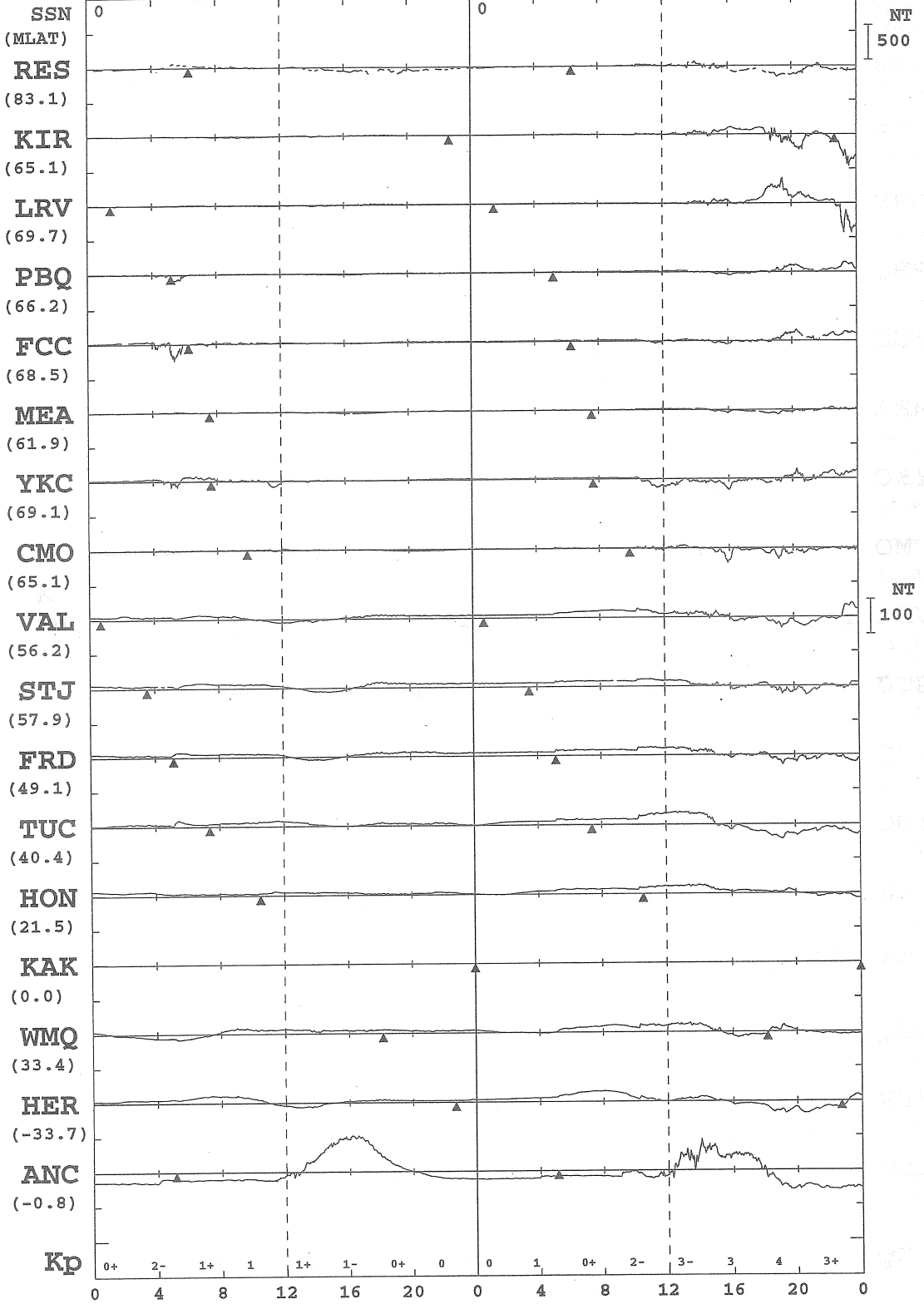
SEP 18
(DAY 261)

* 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



SEP 19
(DAY 262)

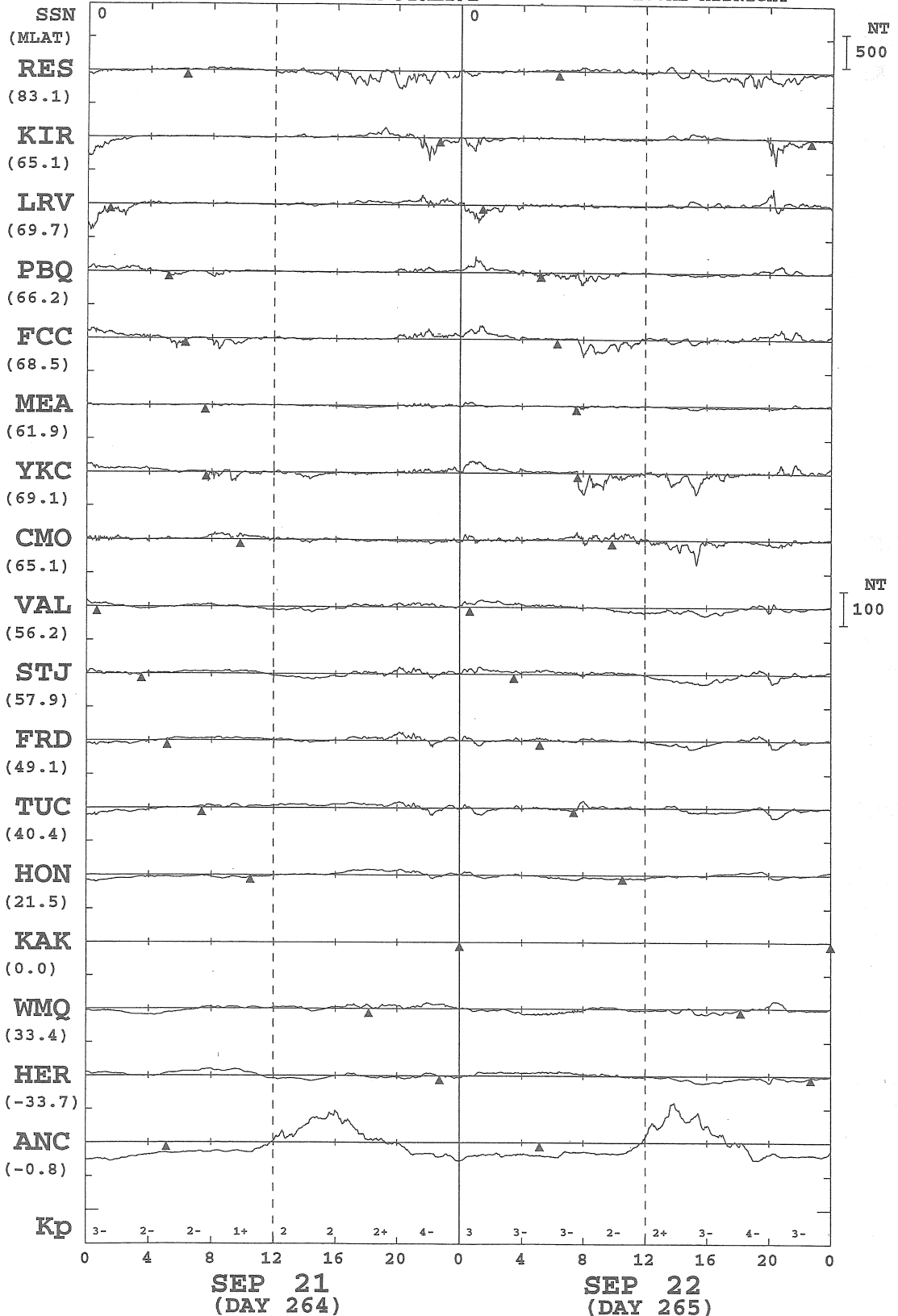
SEP 20
(DAY 263)

* 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

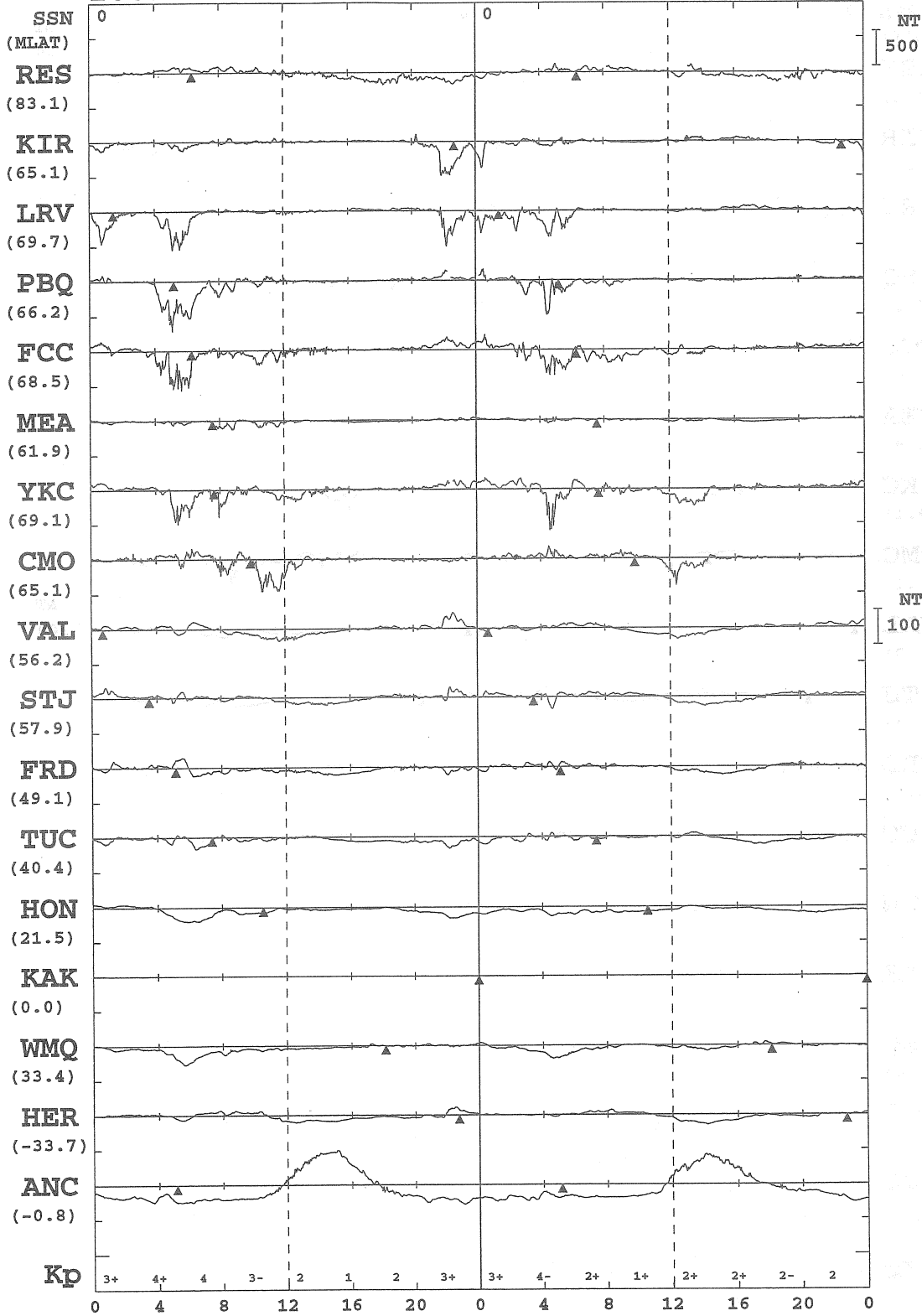


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



SEP 23
(DAY 266)

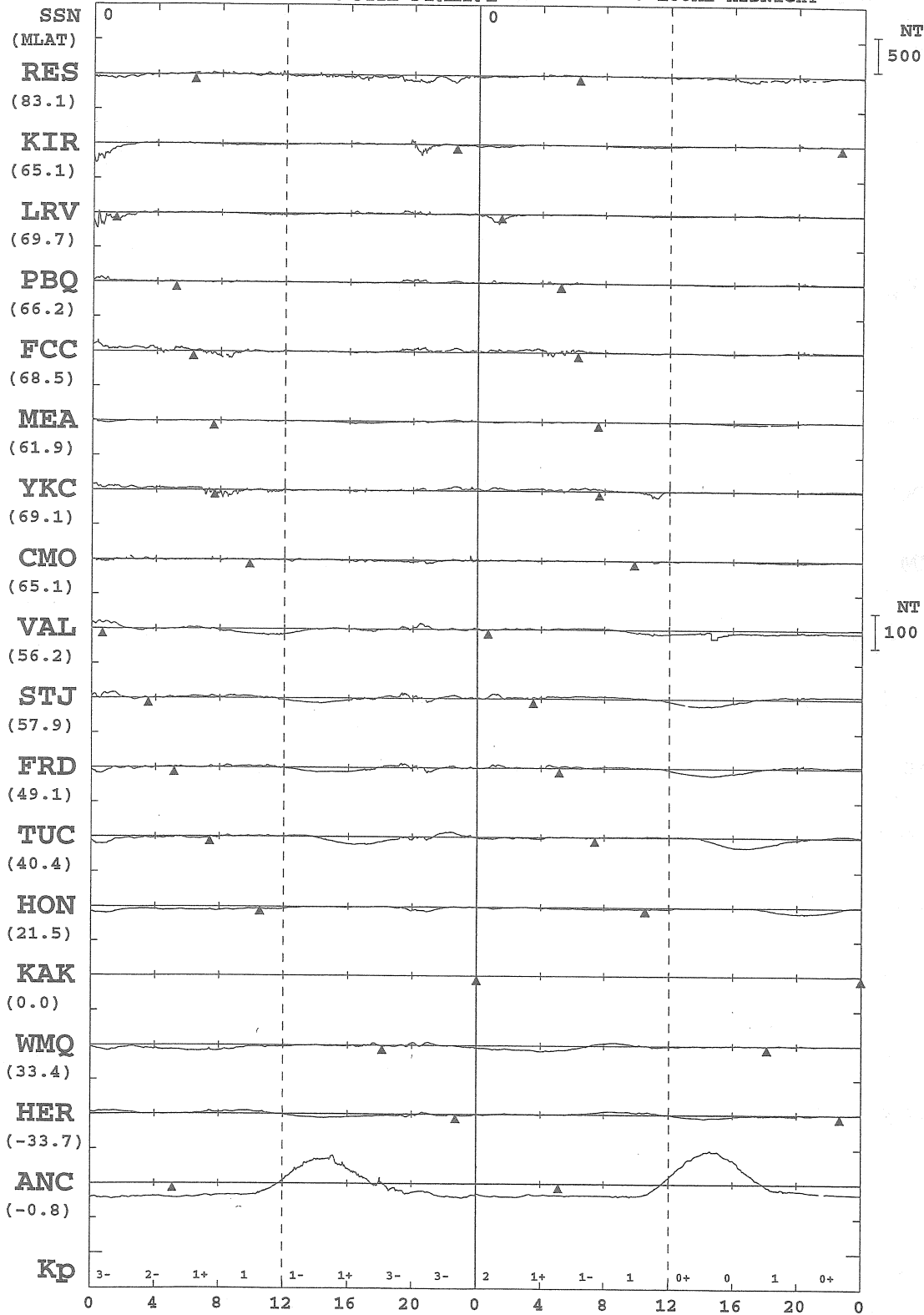
SEP 24
(DAY 267)

* 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

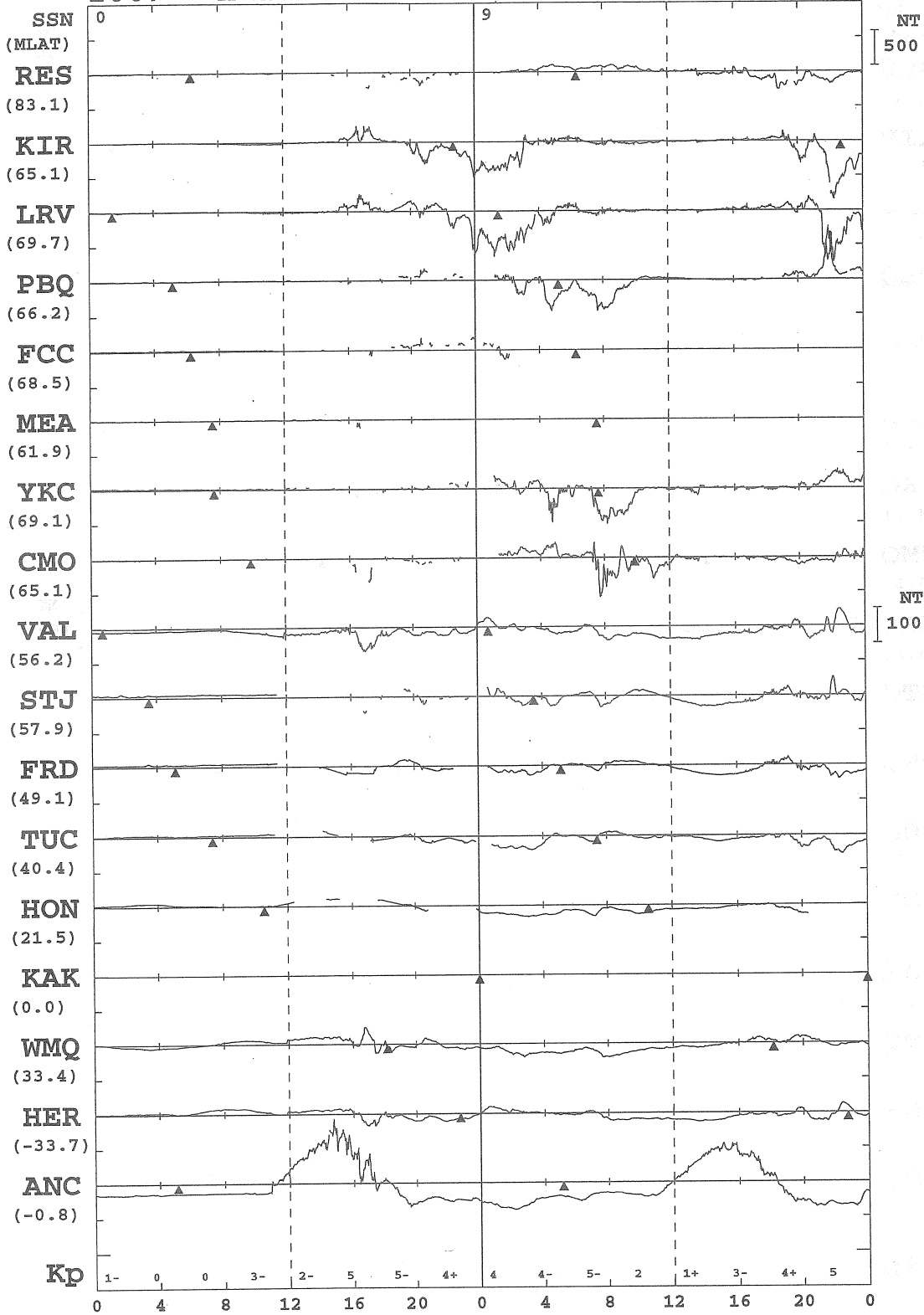


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



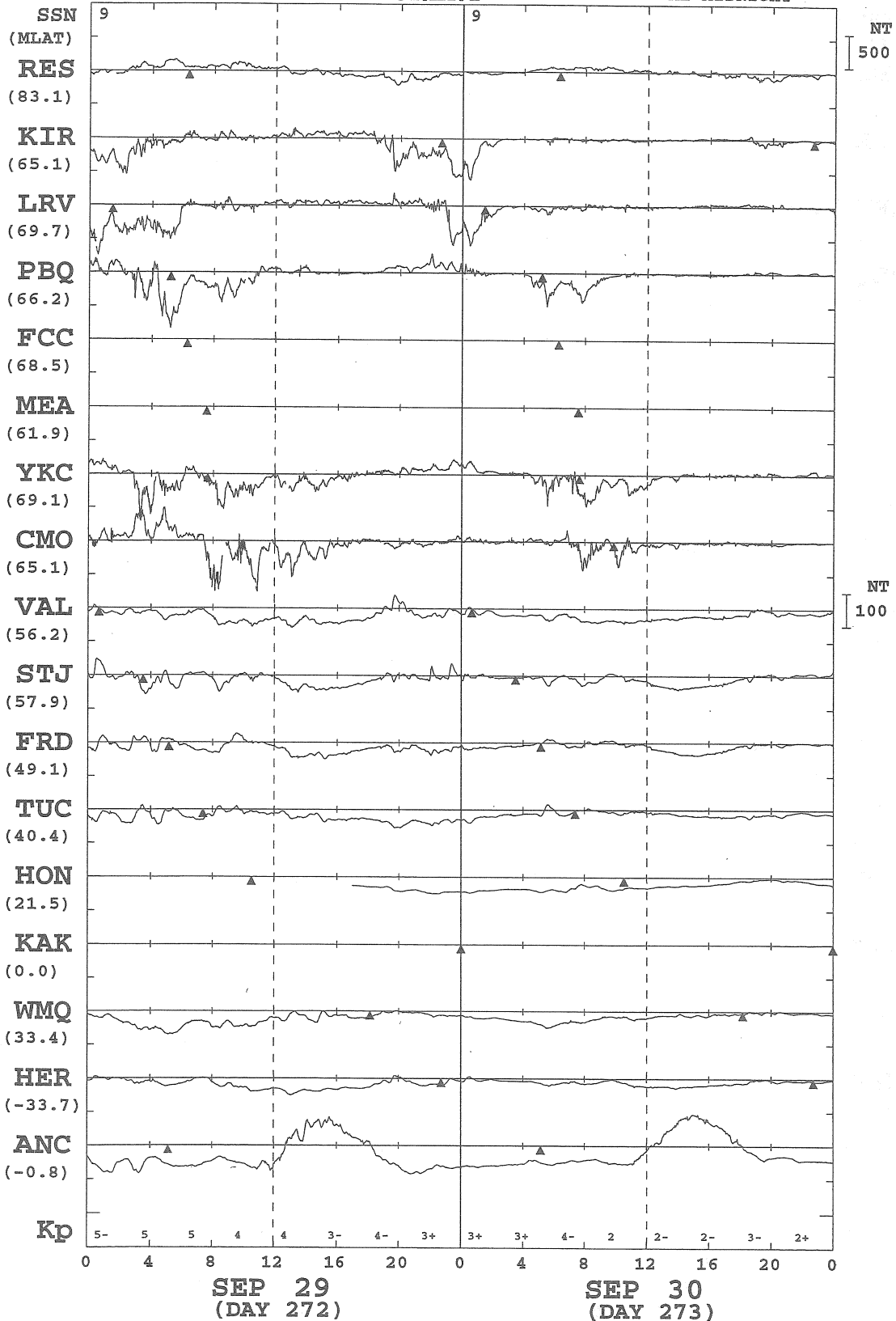
SEP 27
(DAY 270)

SEP 28
(DAY 271)

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

KYOTO UNIV.

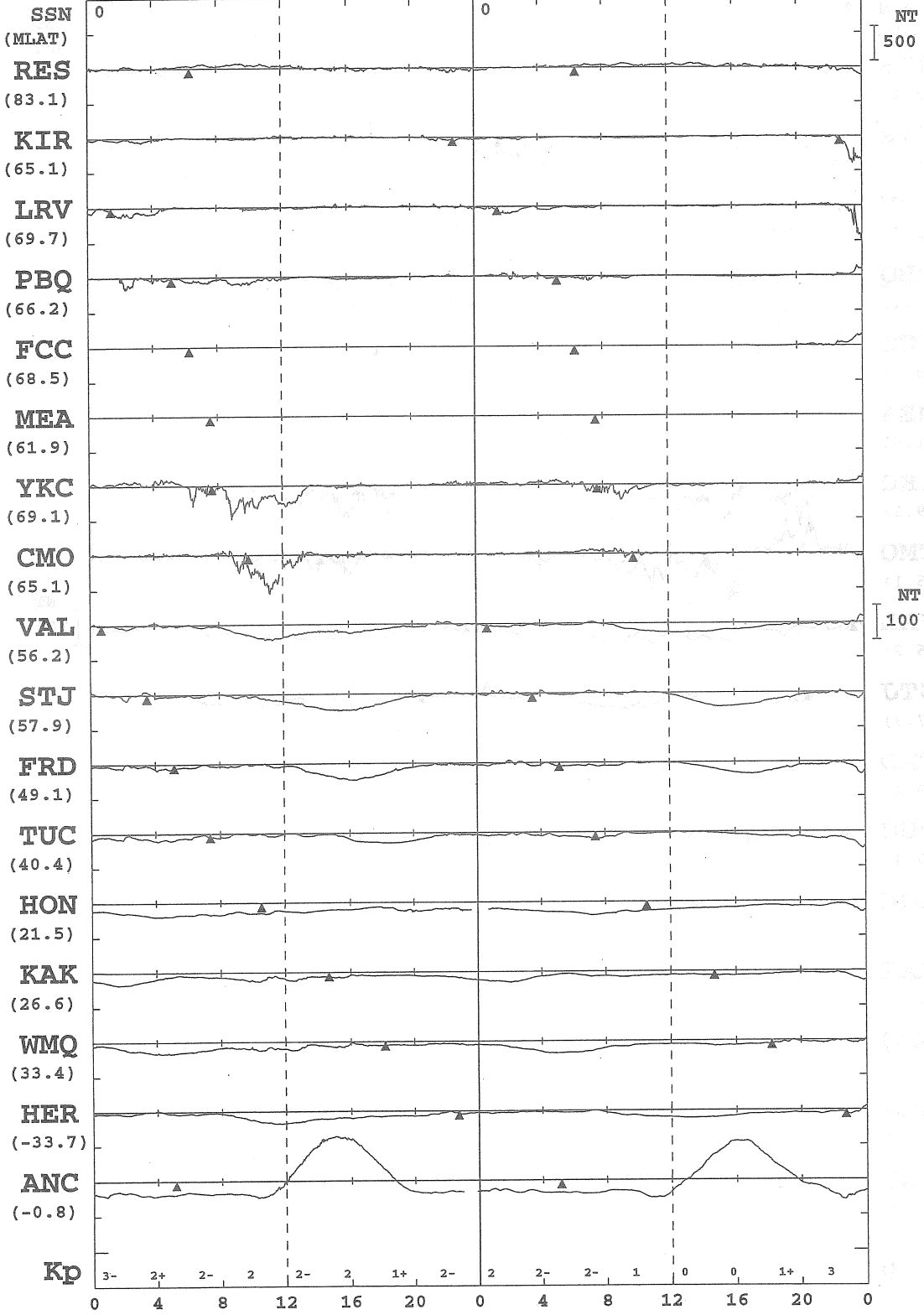
2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



* 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

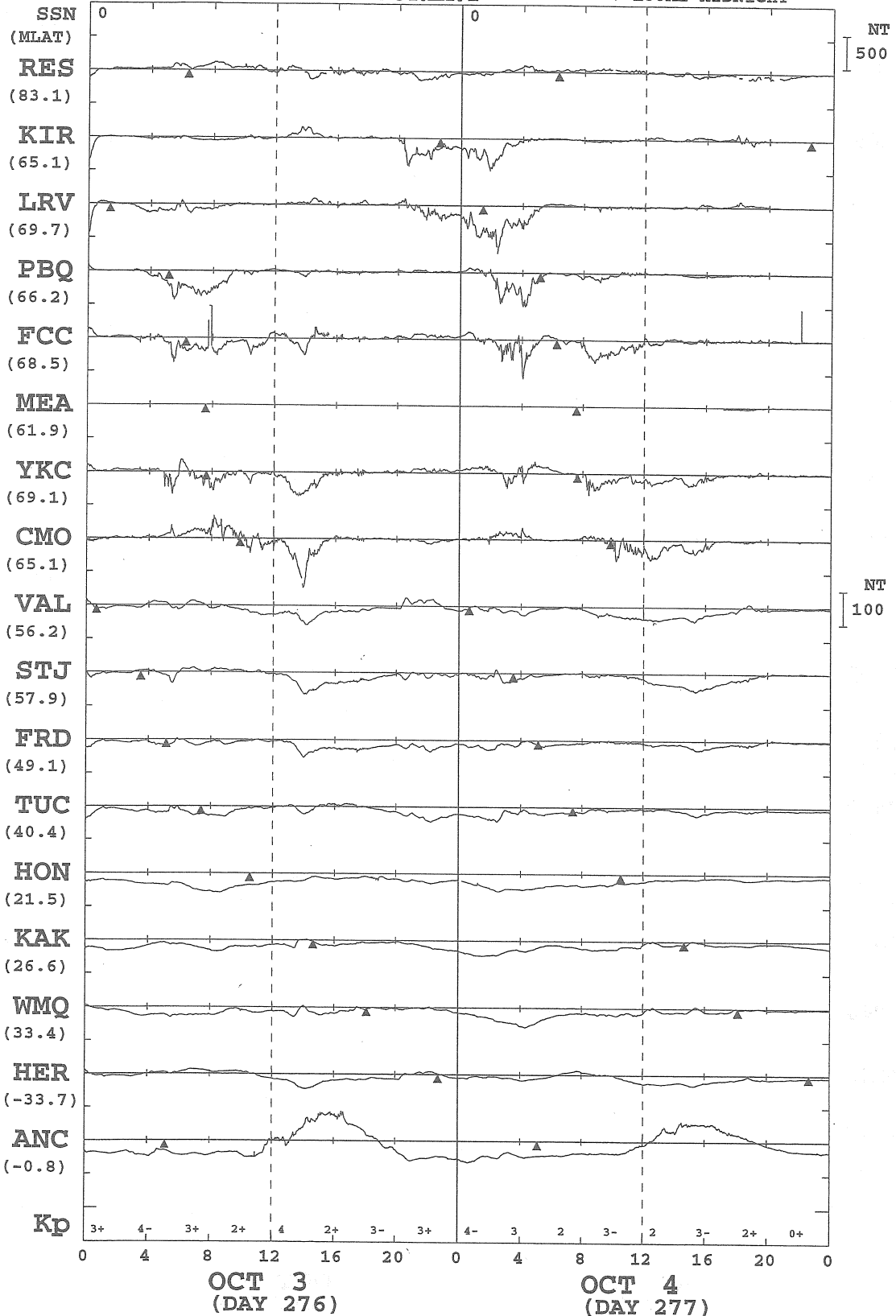


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

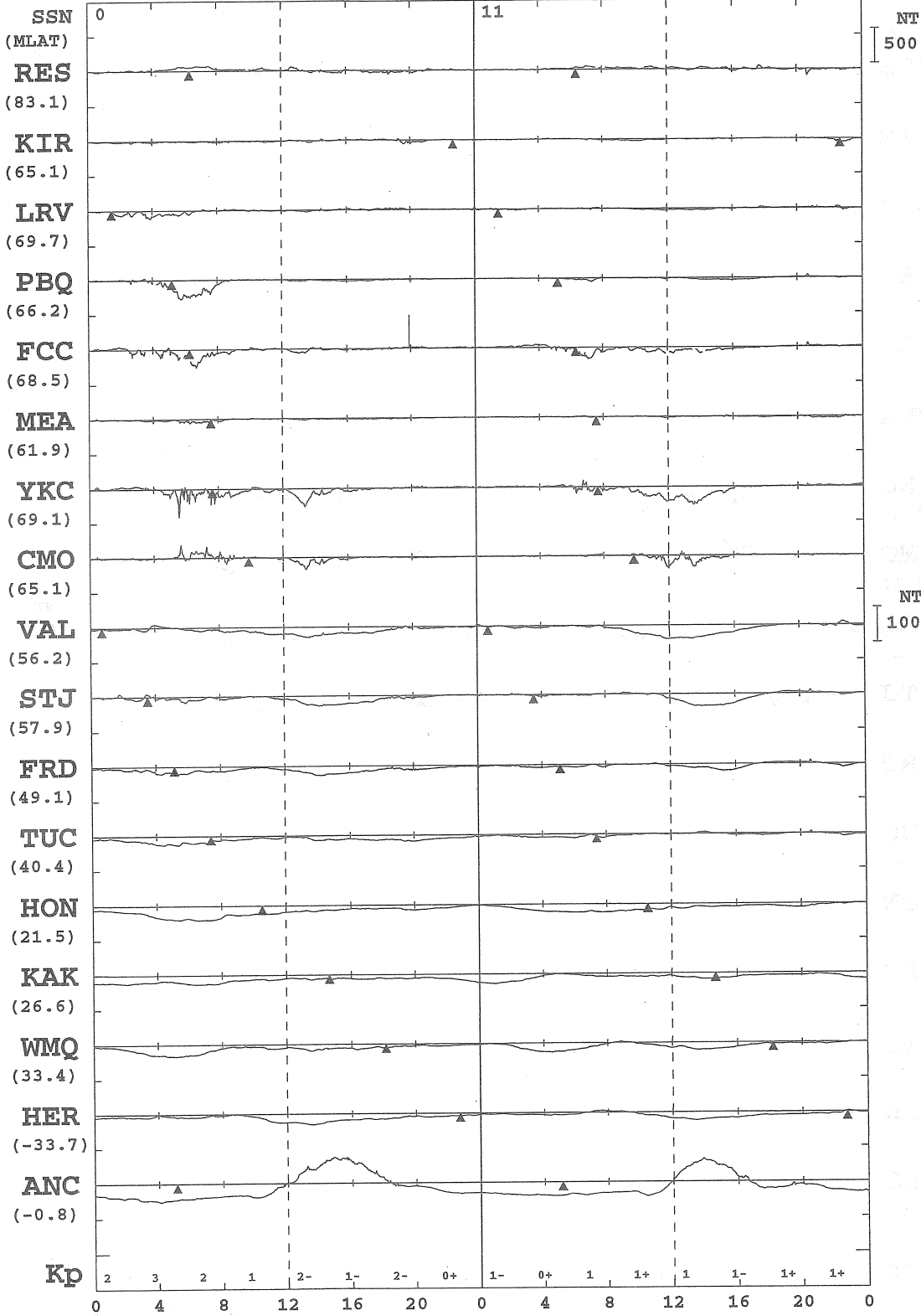


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

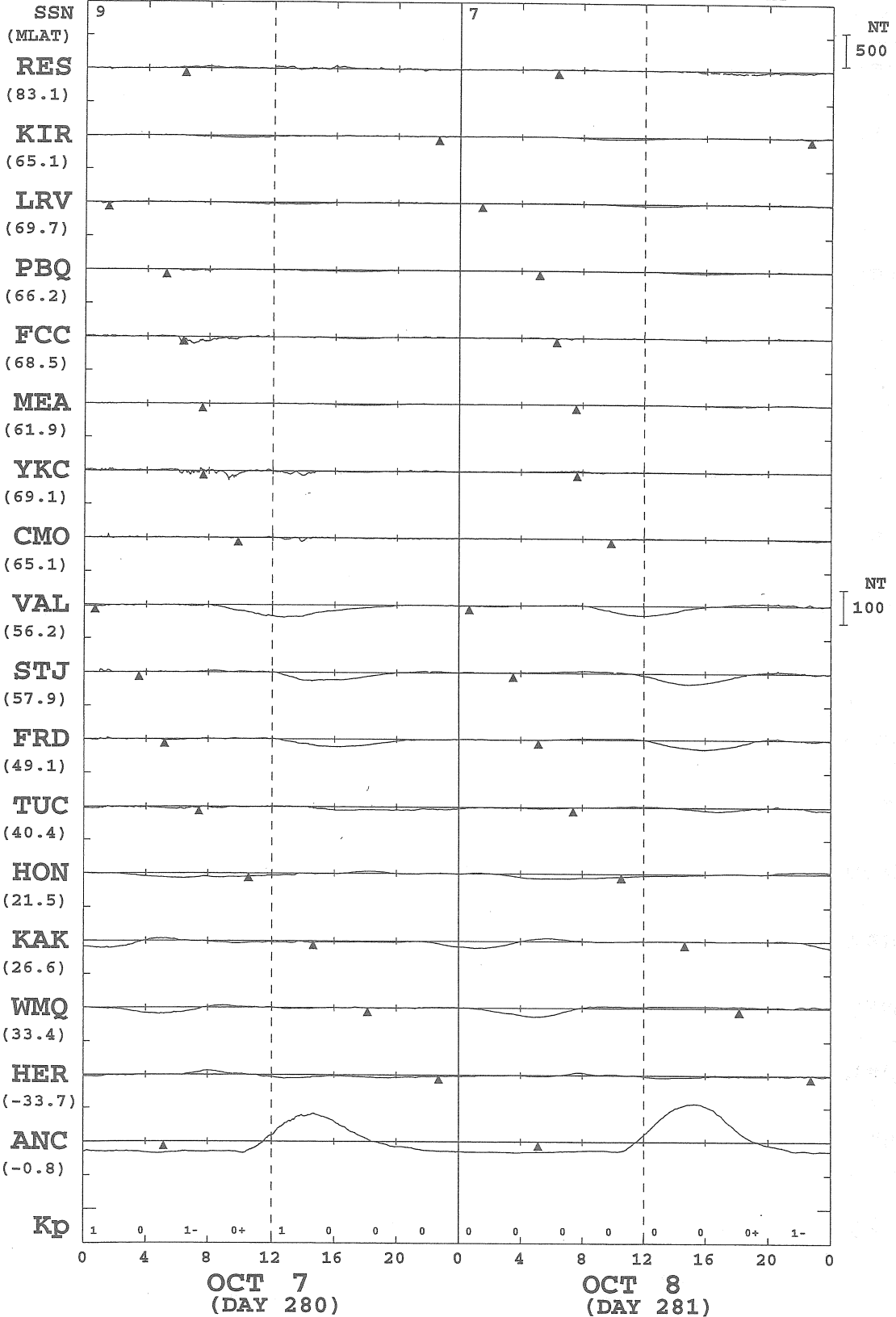


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

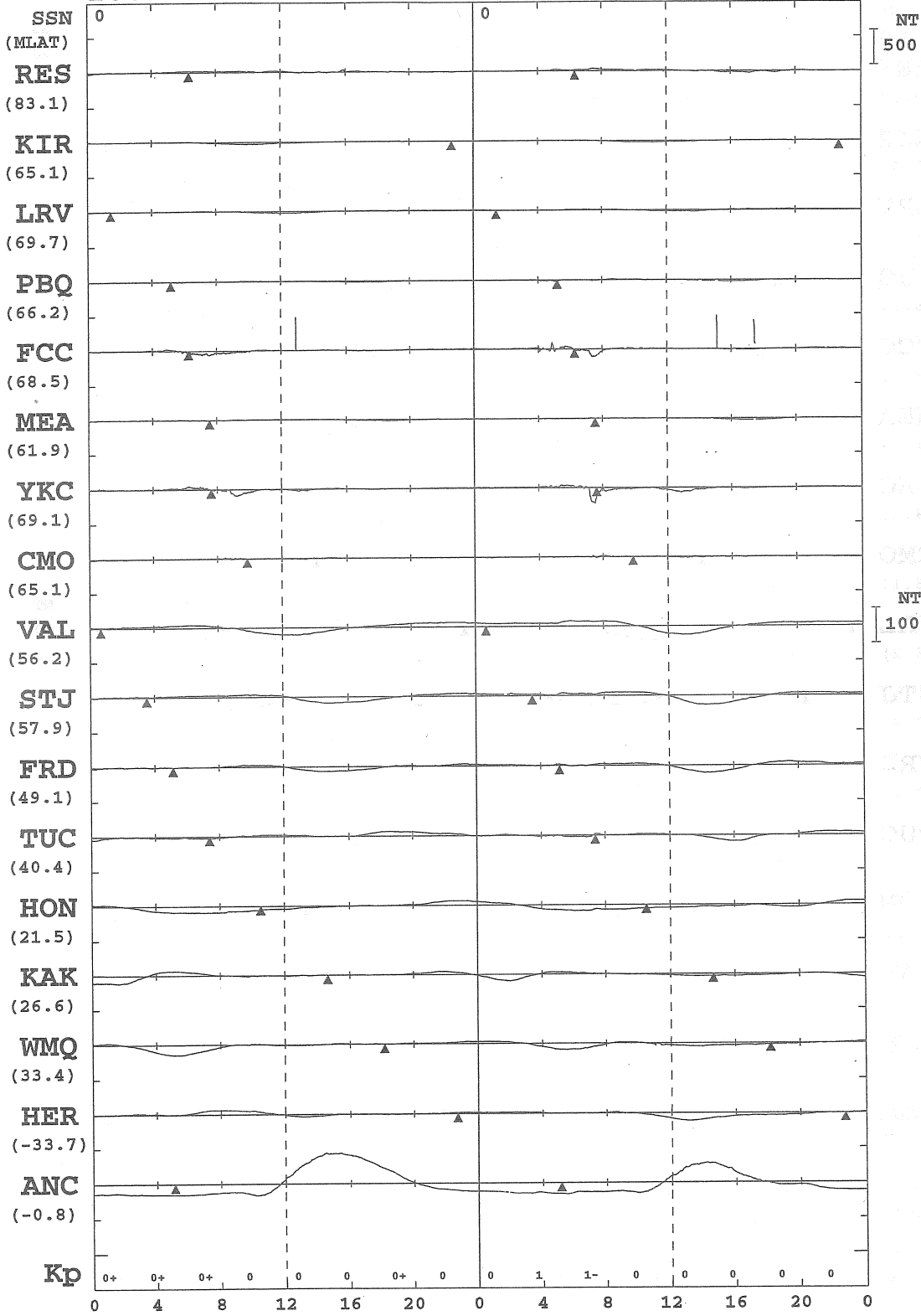


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

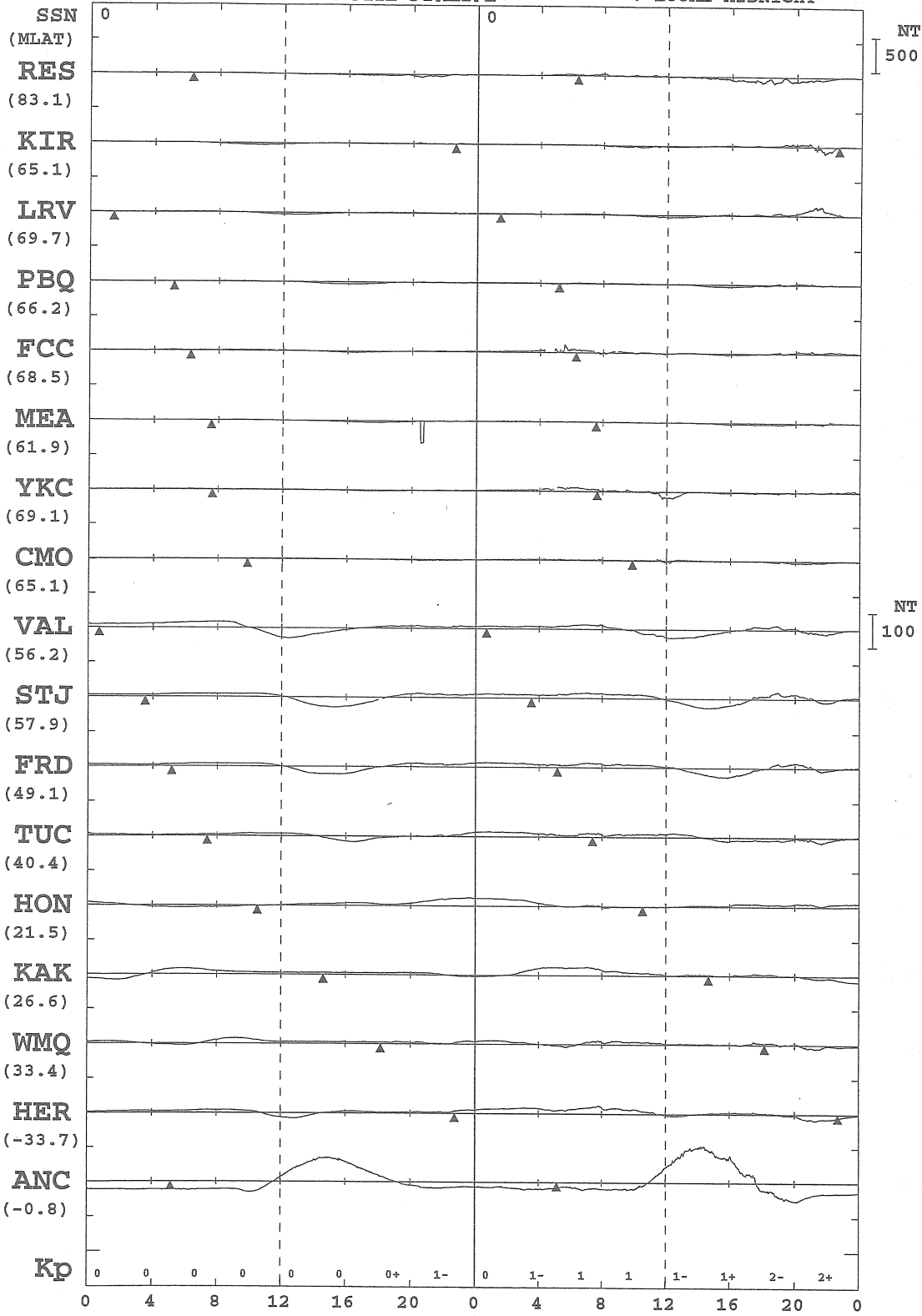


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
* PROMPT DATA ARE INCLUDED
* ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



OCT 11
(DAY 284)

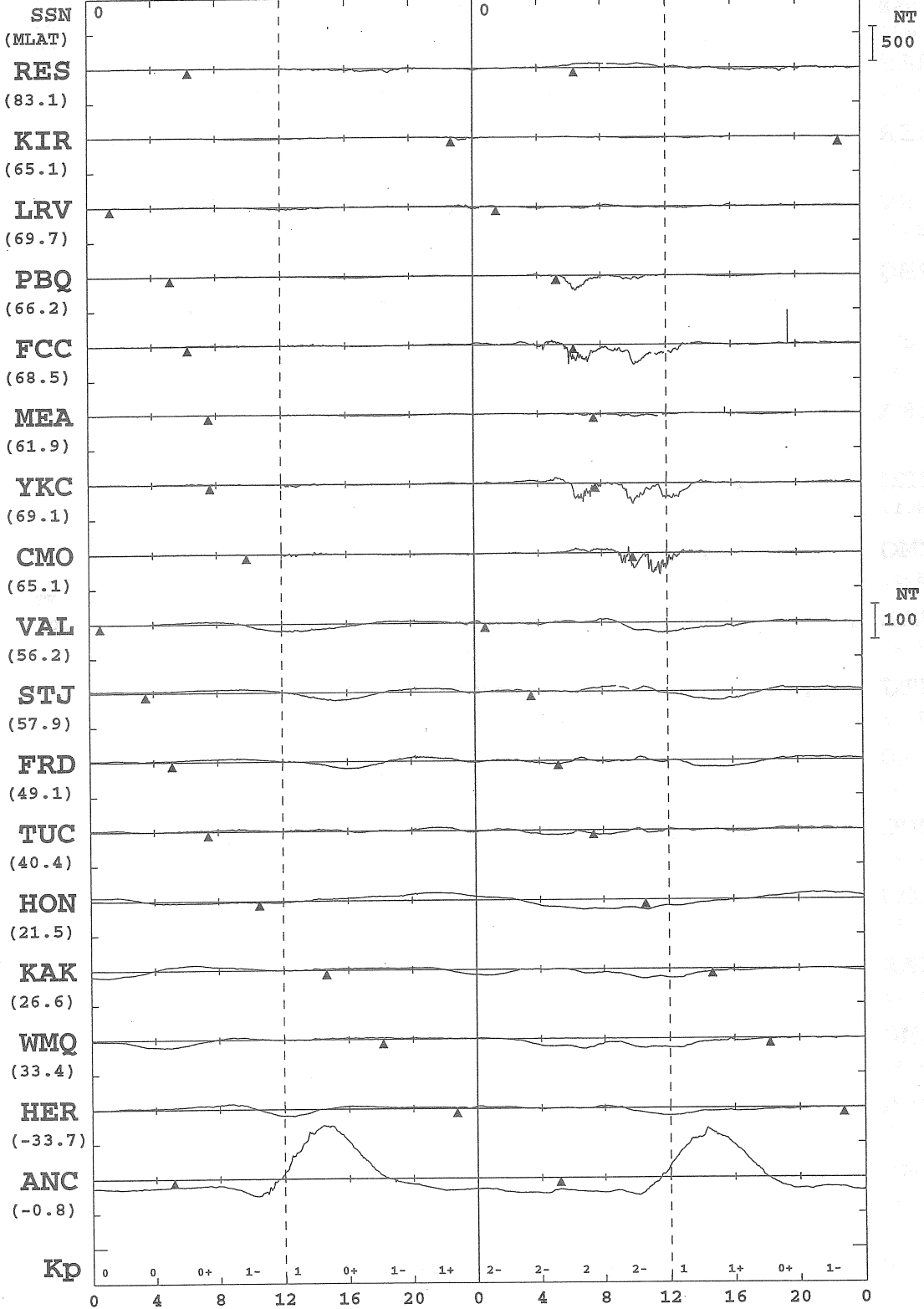
OCT 12
(DAY 285)

* 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

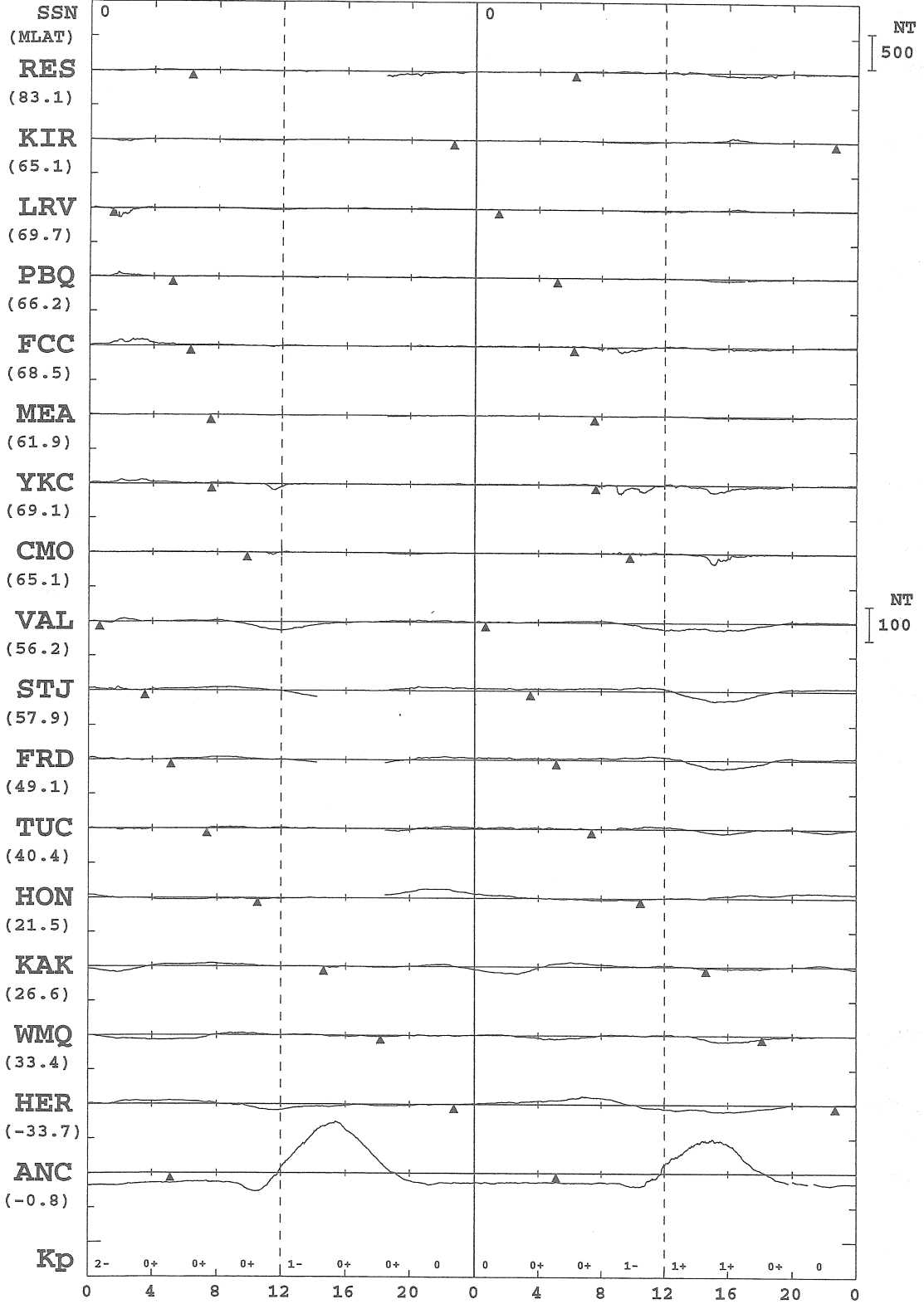


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

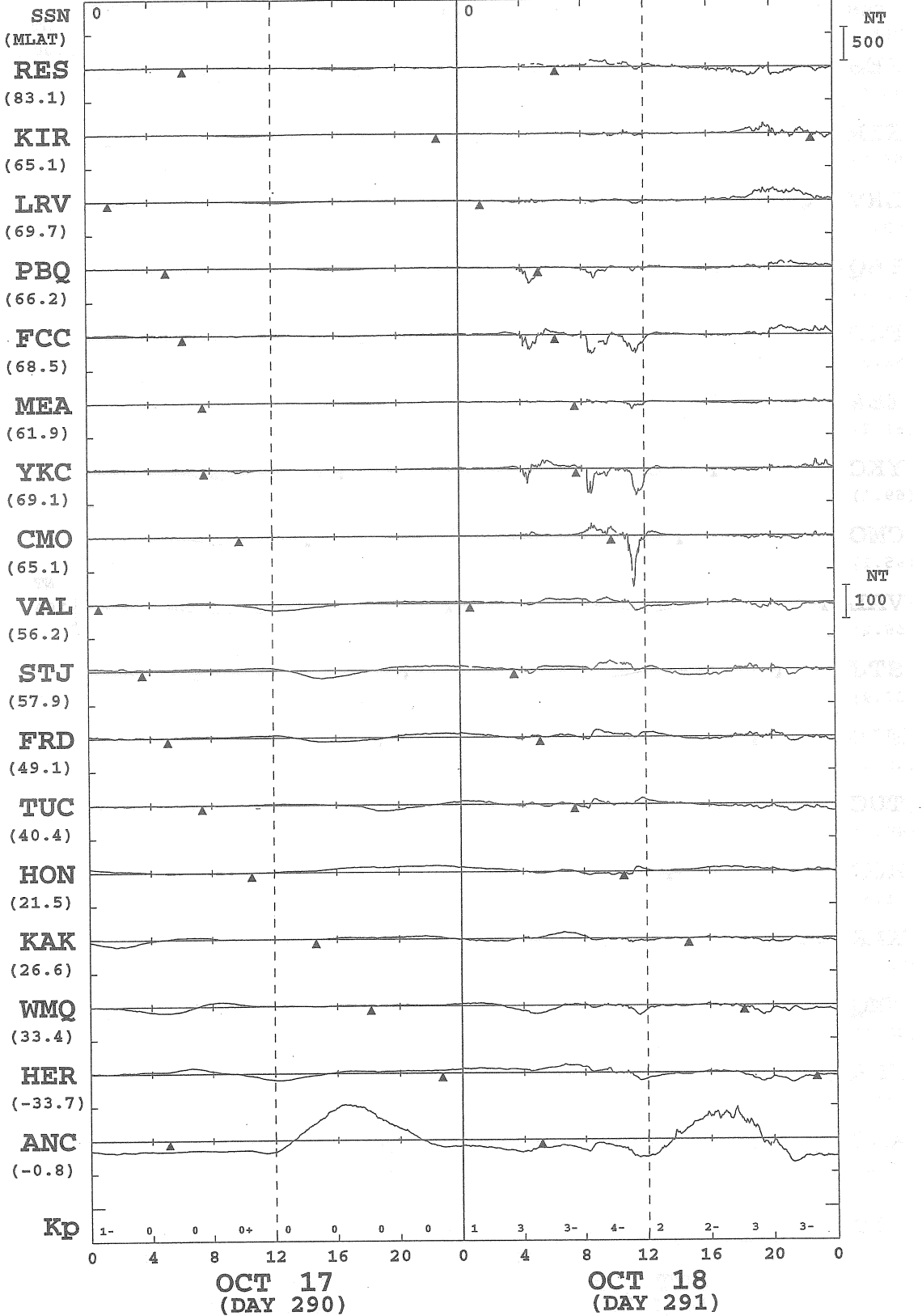


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

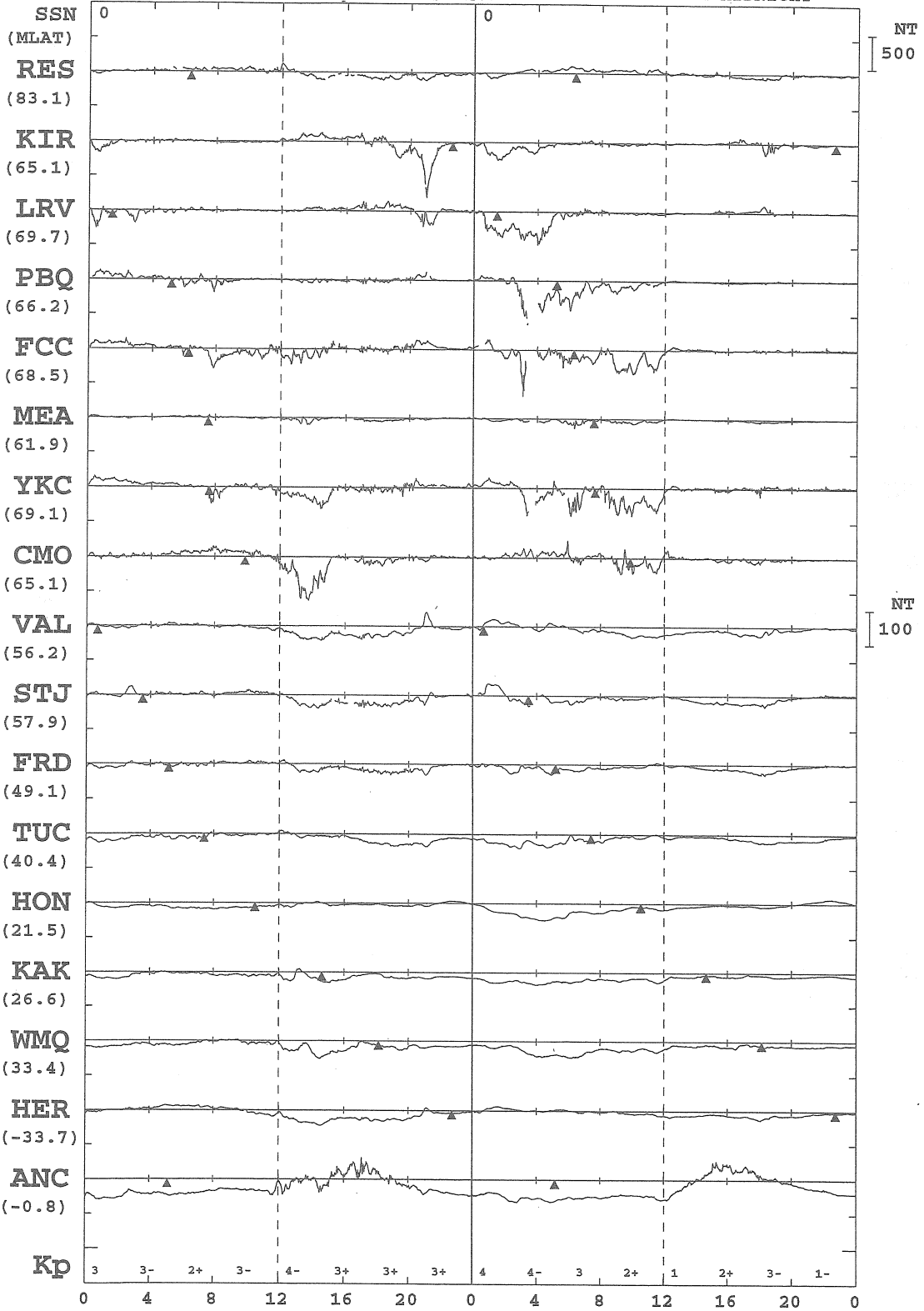


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



OCT 19
(DAY 292)

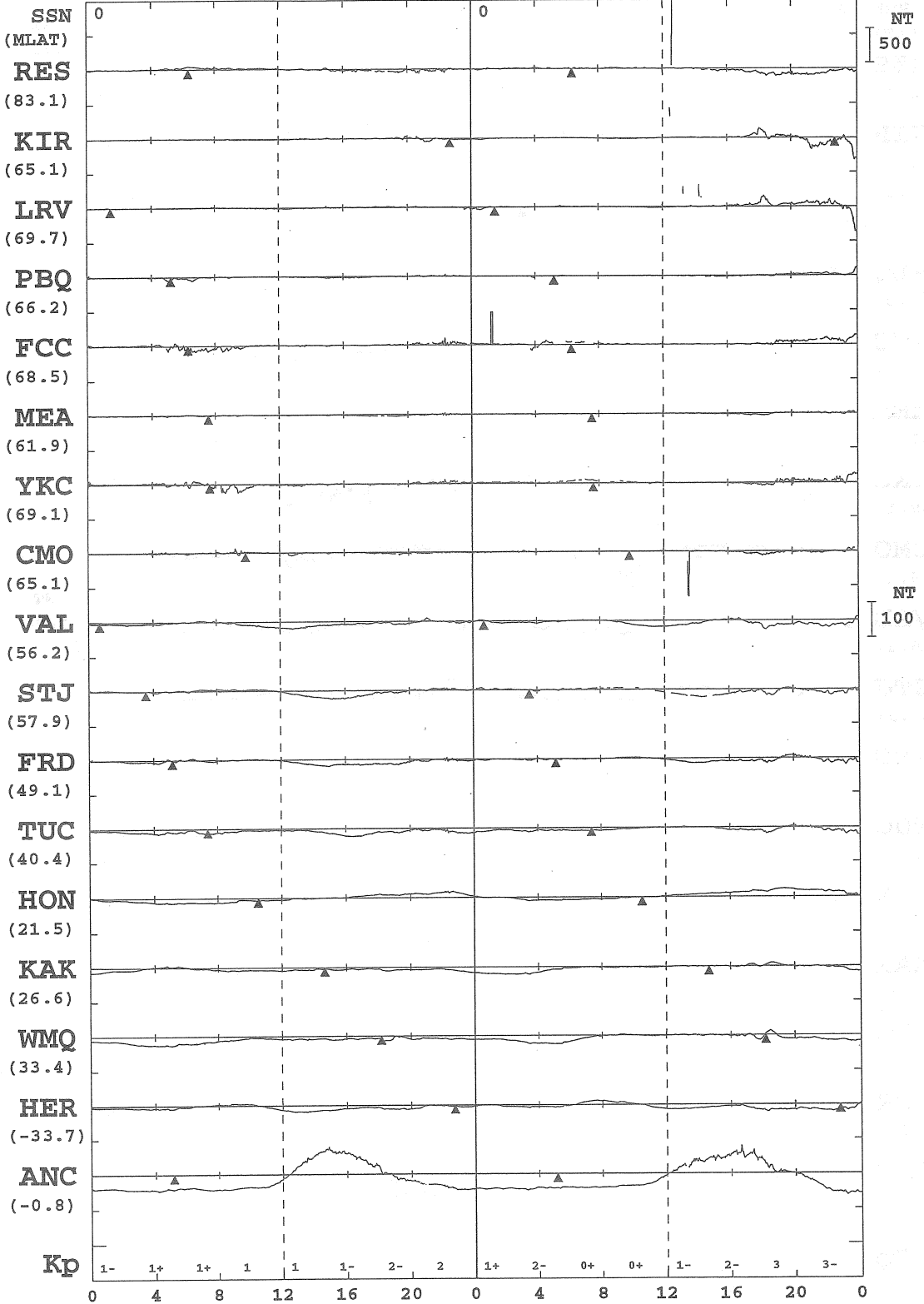
OCT 20
(DAY 293)

* 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

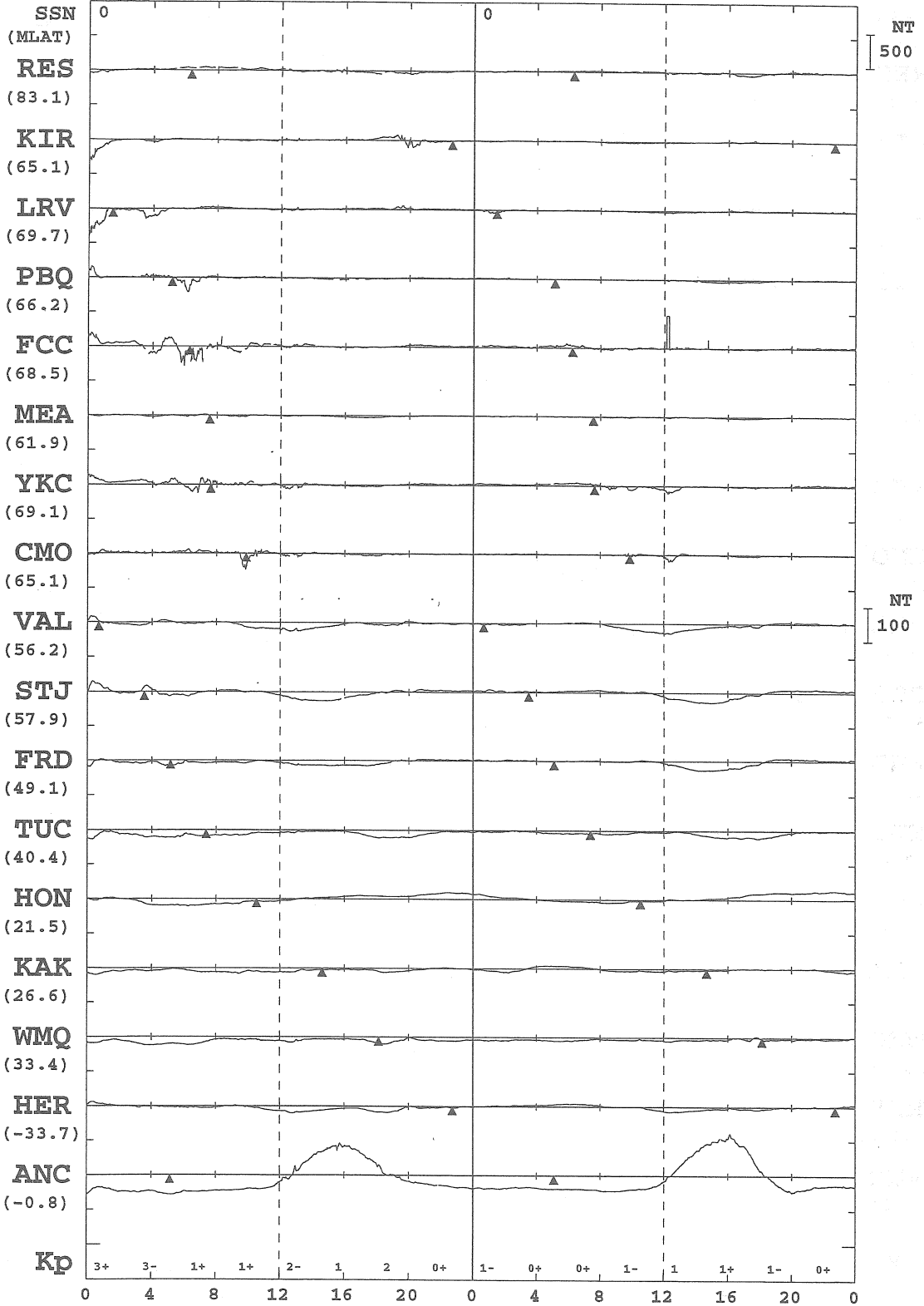
▲ : LOCAL MIDNIGHT



* 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



OCT 23
(DAY 296)

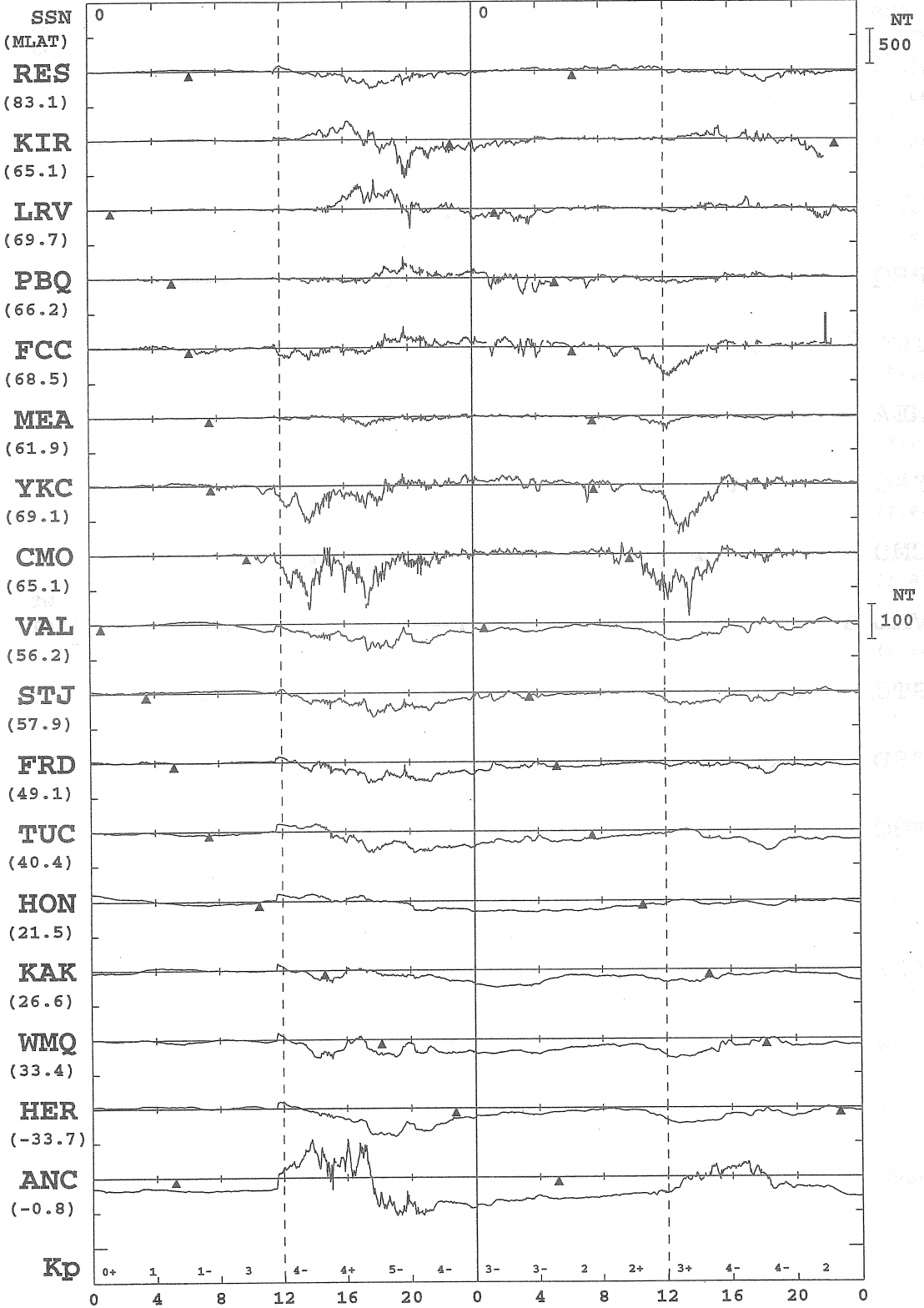
OCT 24
(DAY 297)

* 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

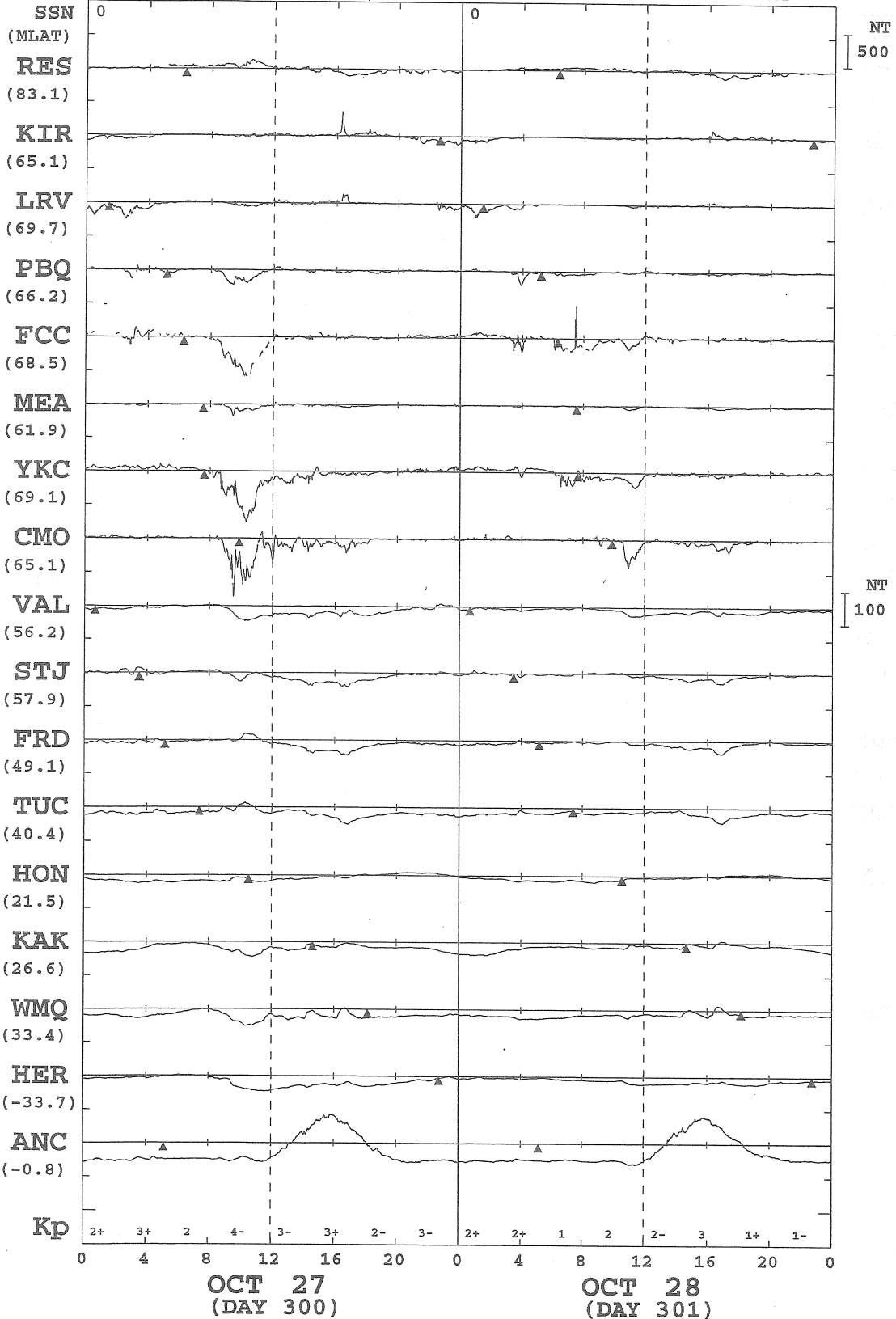


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

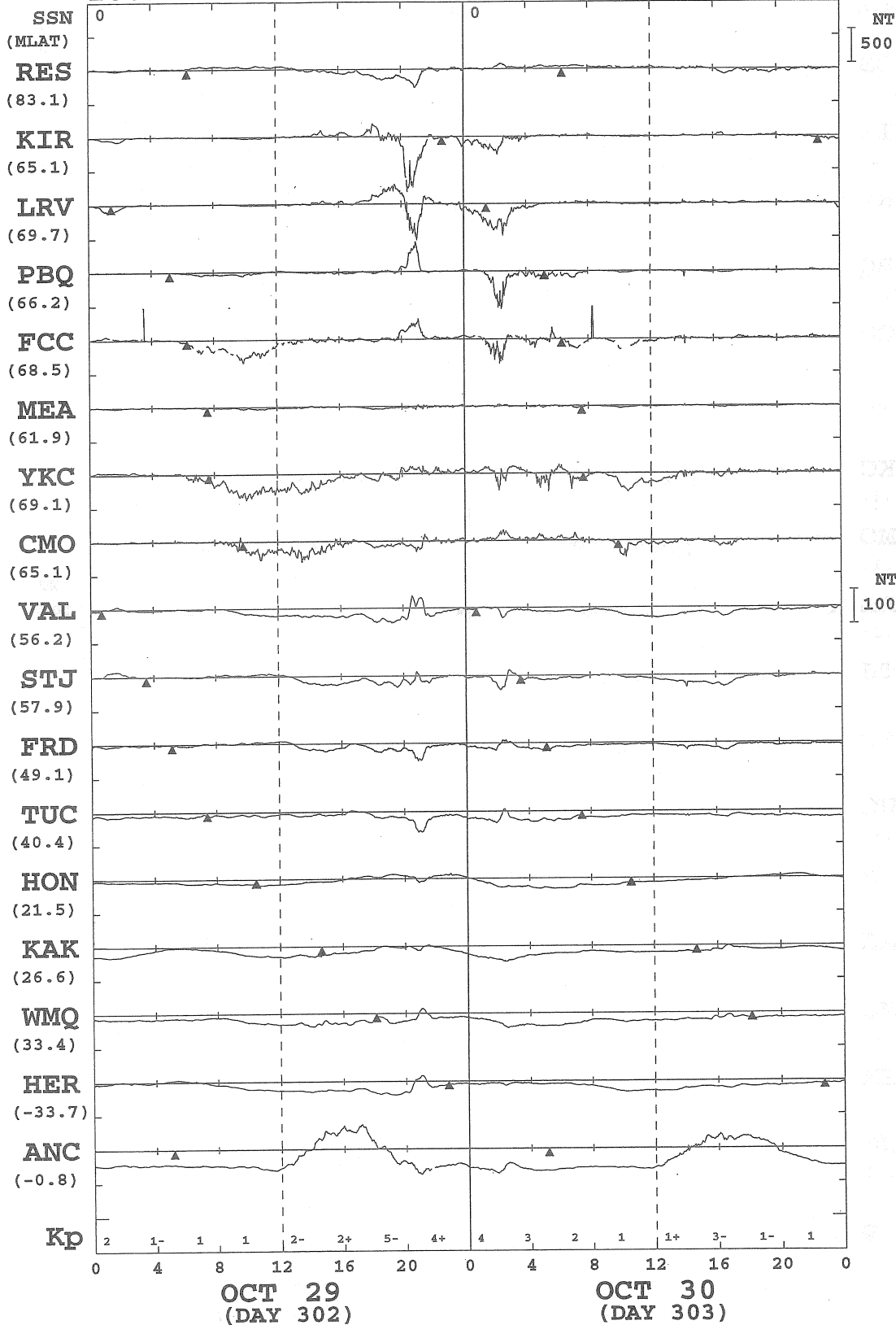


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

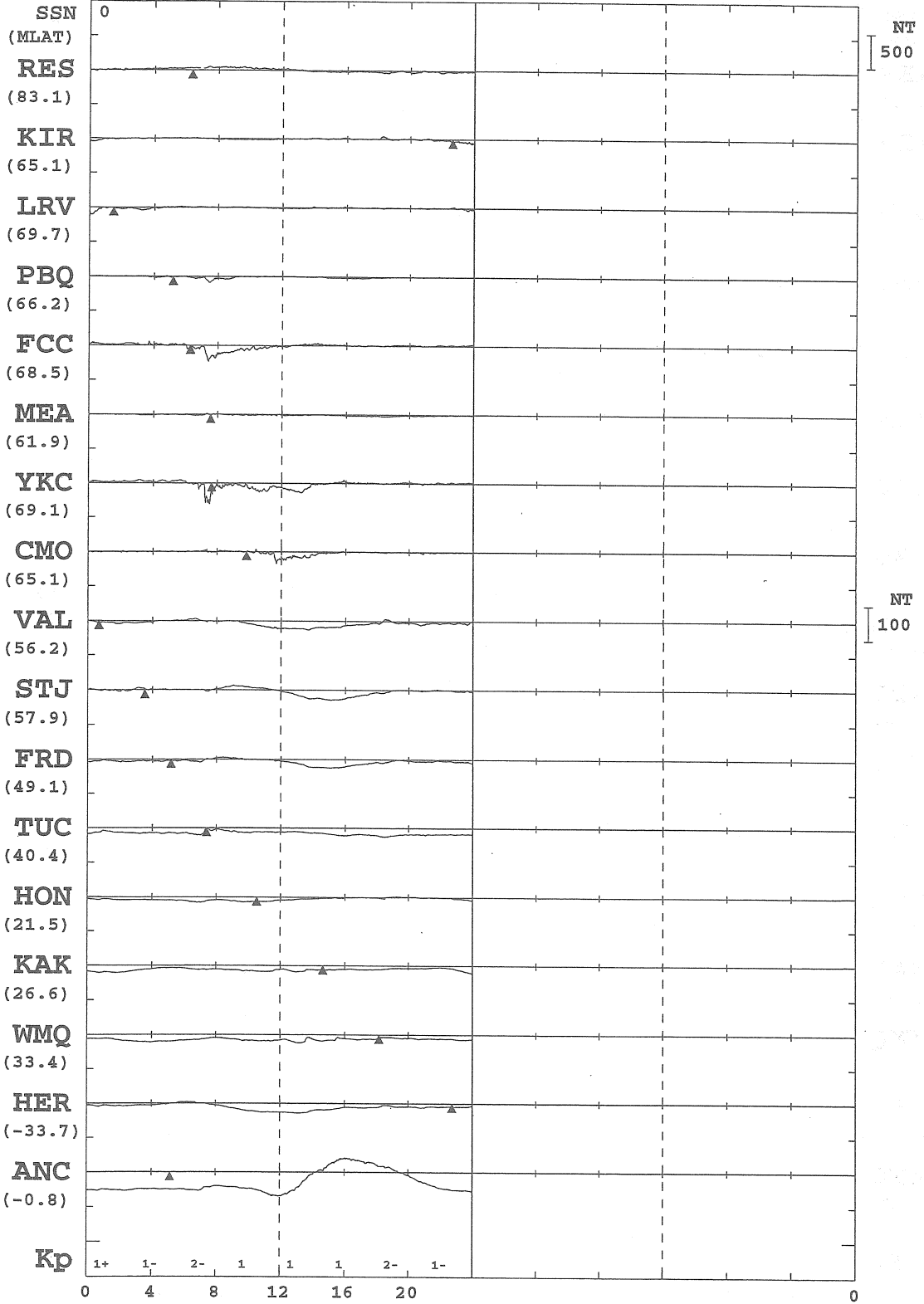


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



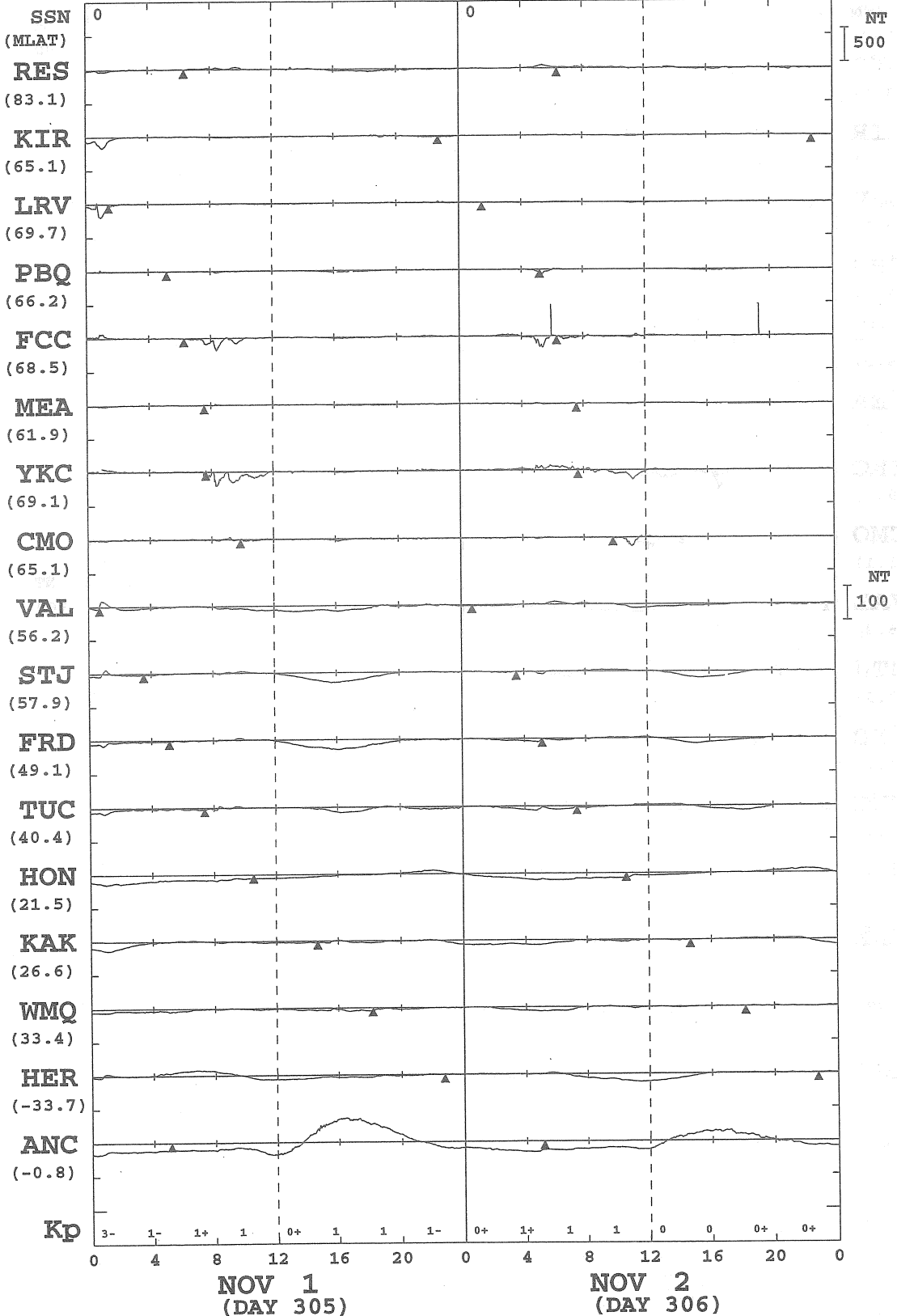
OCT 31
(DAY 304)

* 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

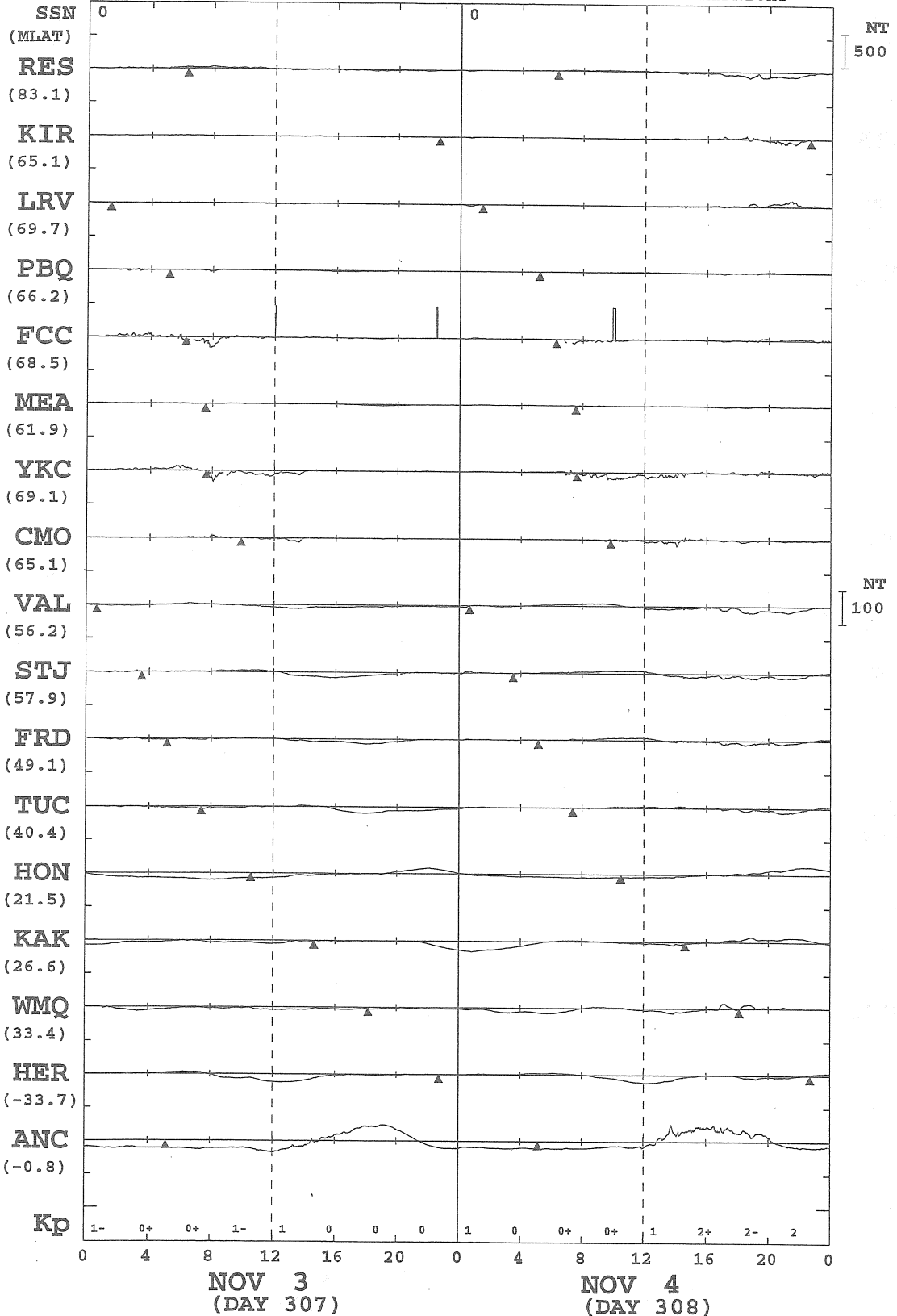


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

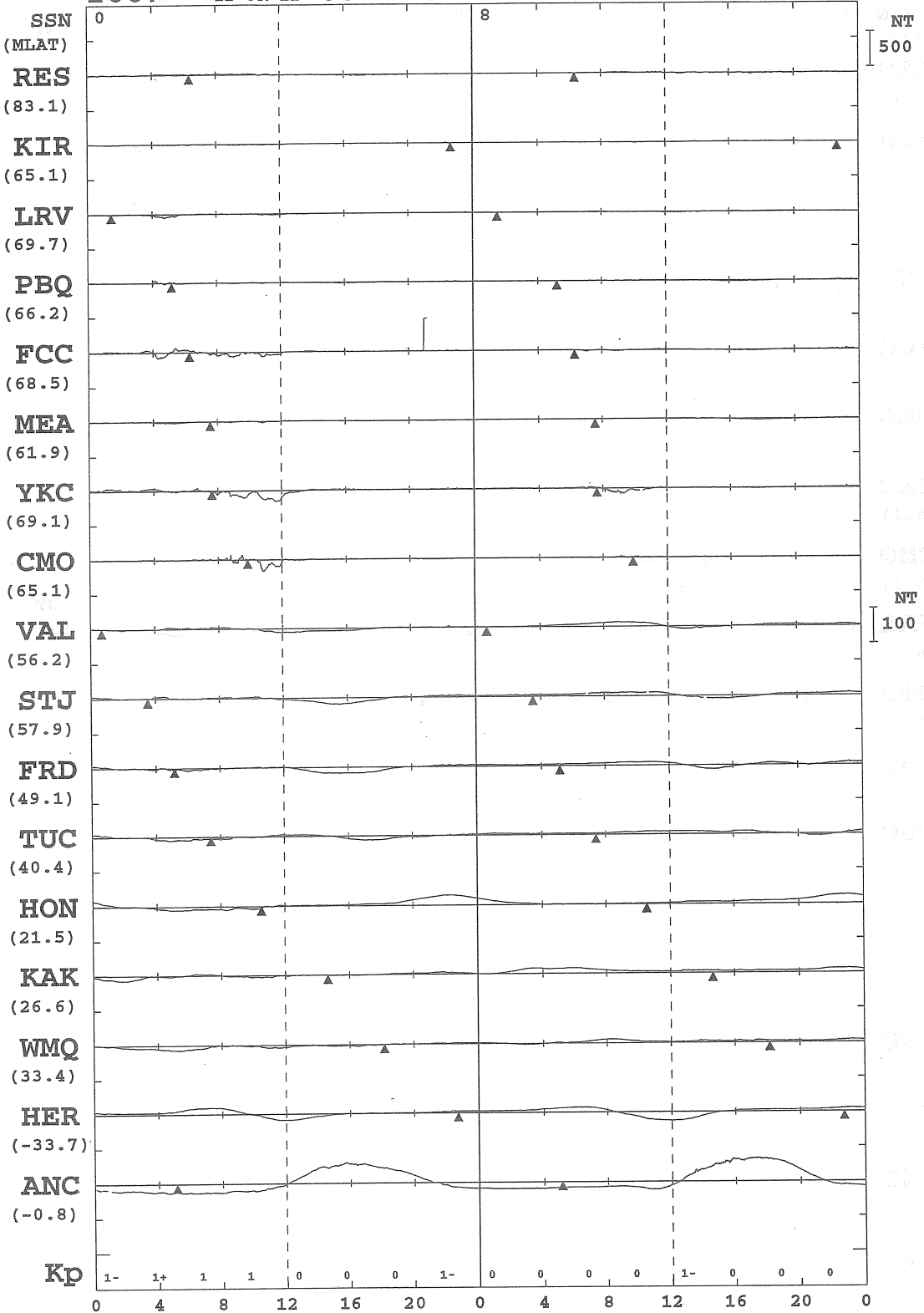


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

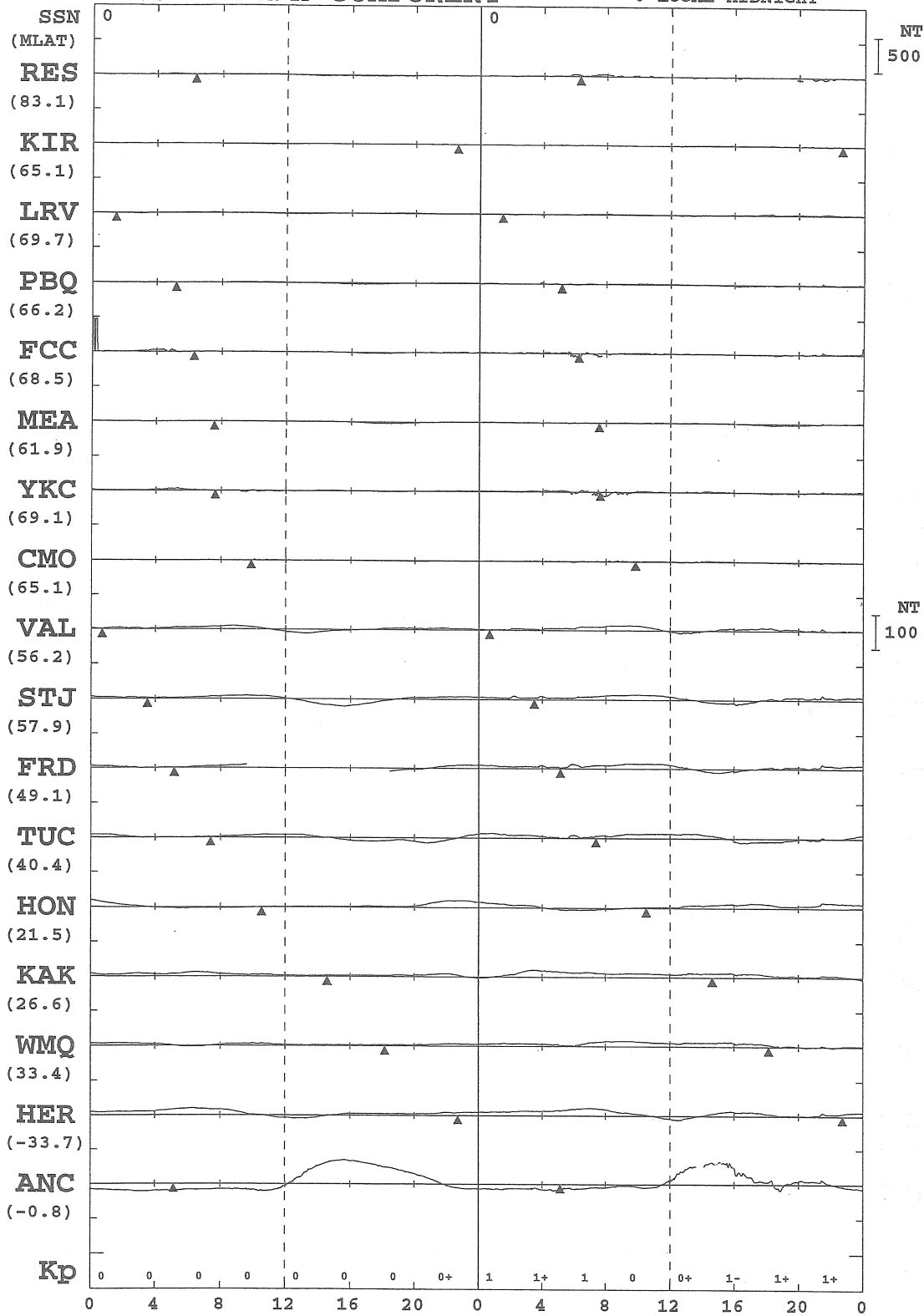


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

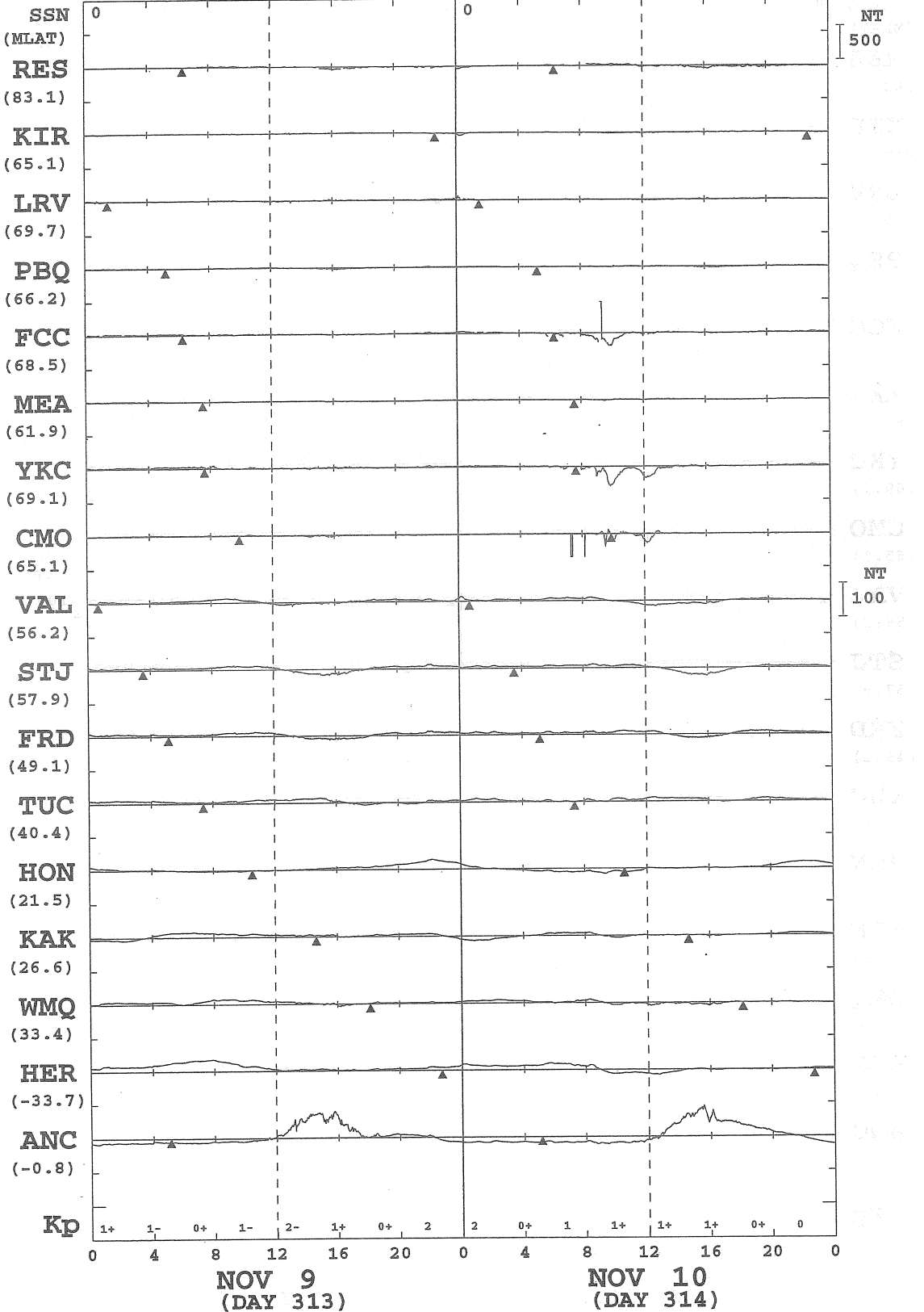
▲ : LOCAL MIDNIGHT



* 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

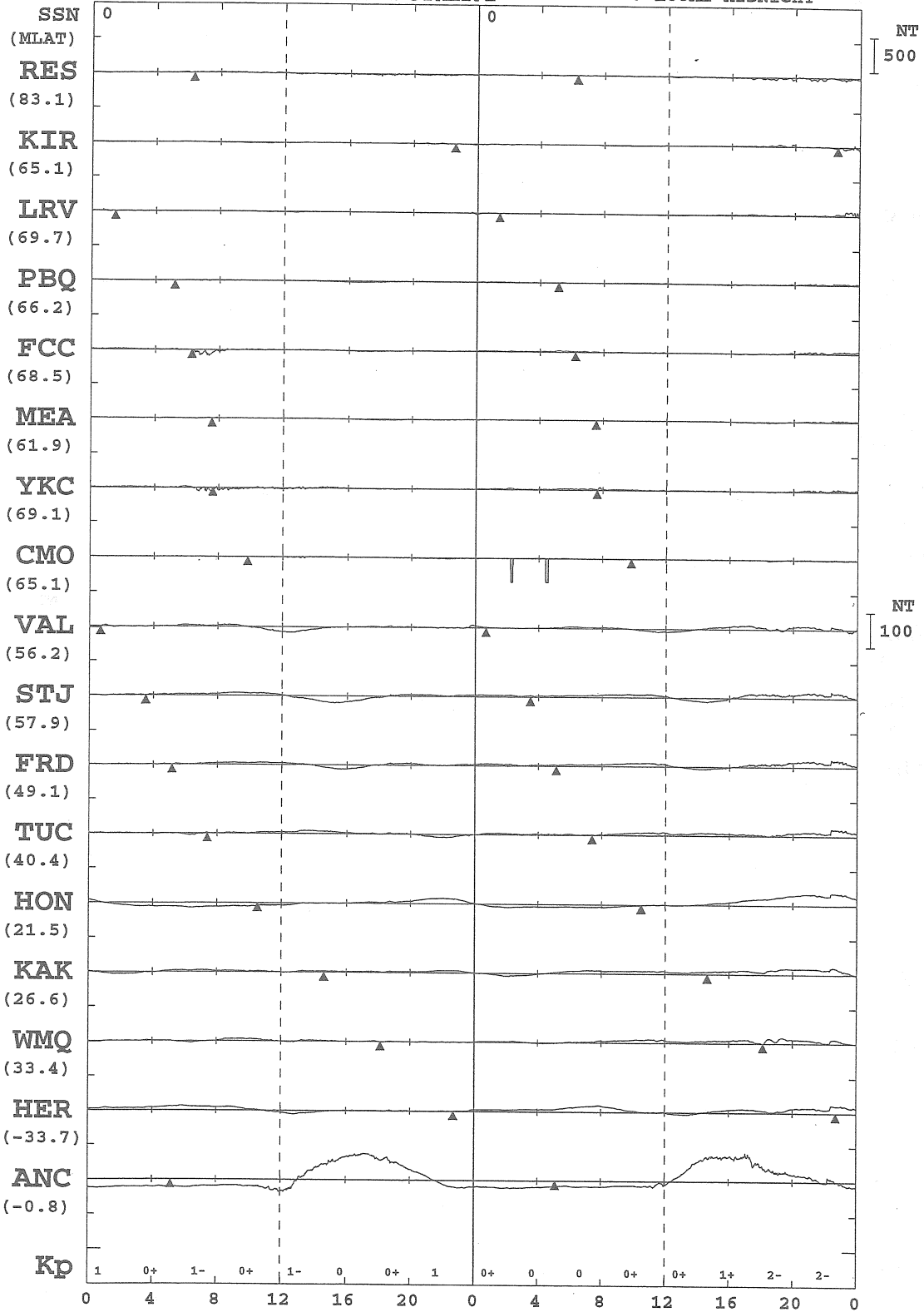


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

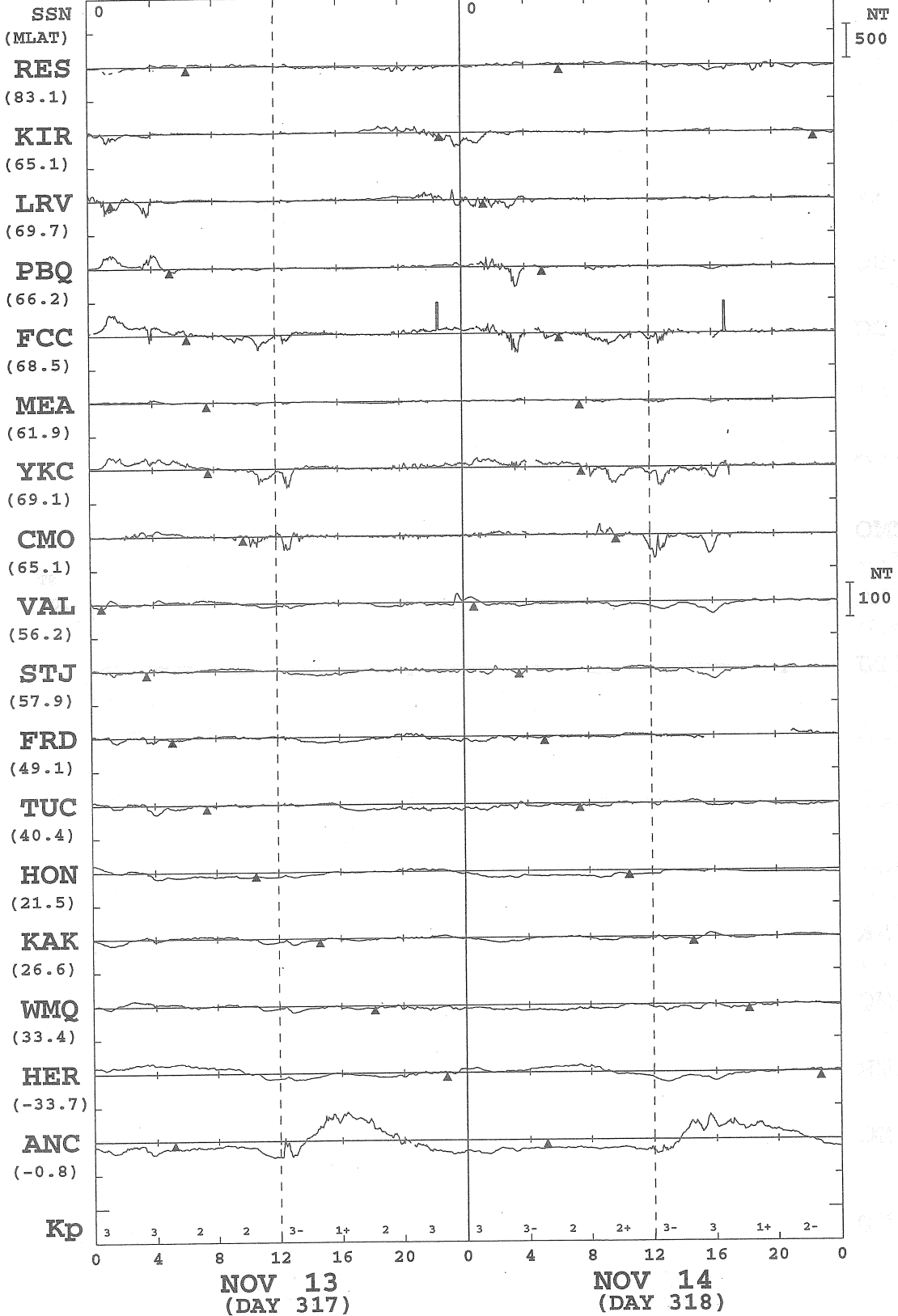


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

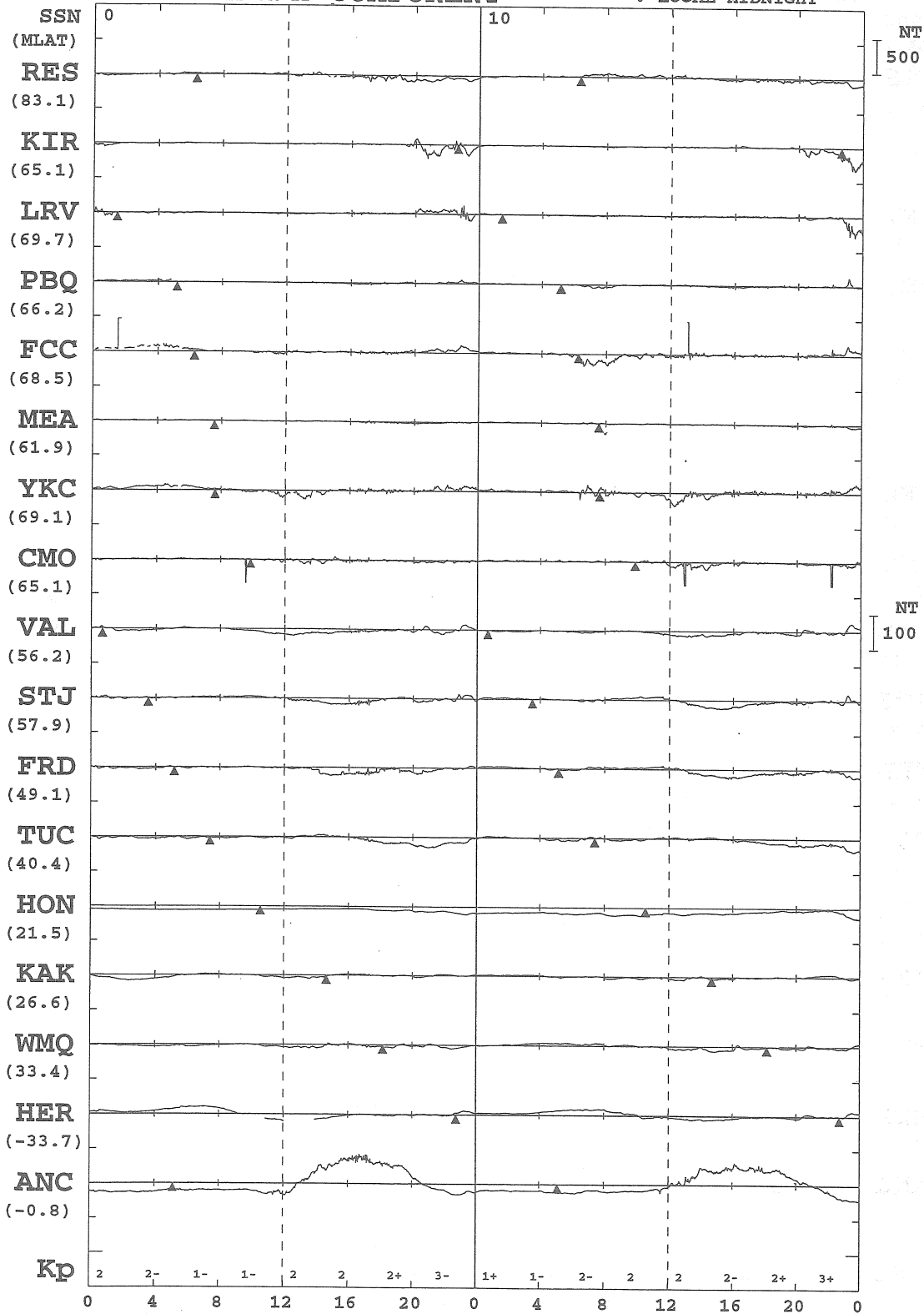


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

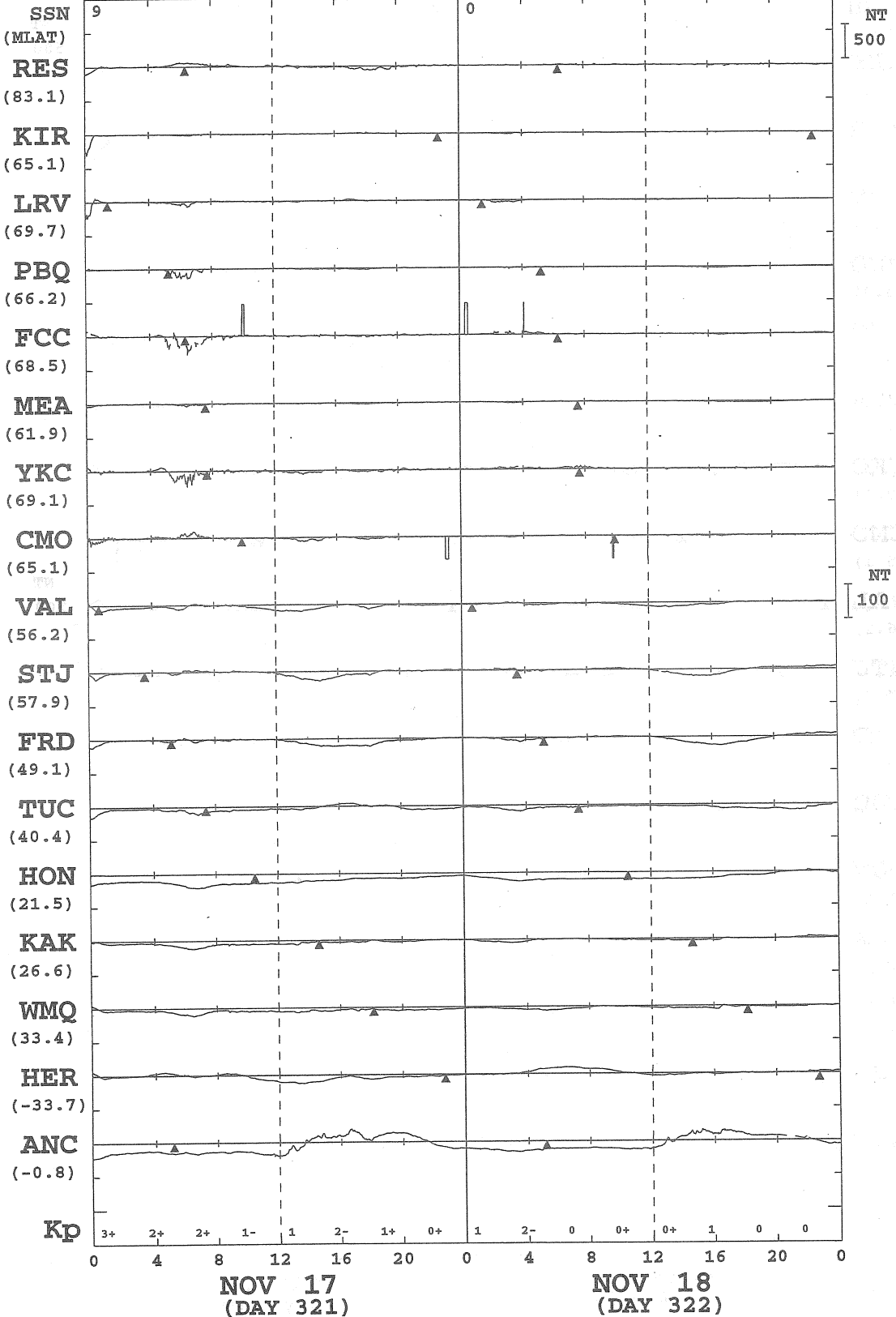


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

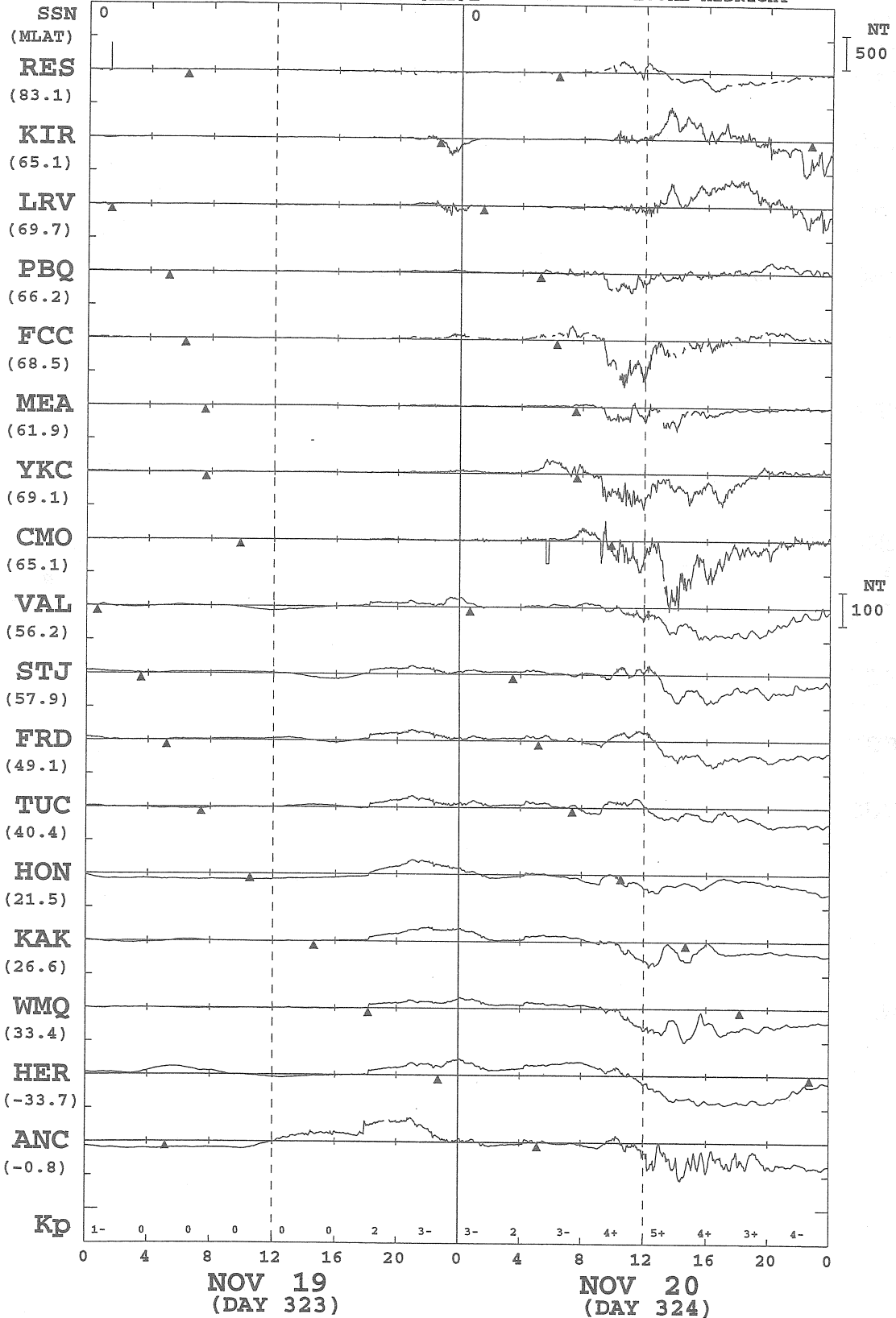


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

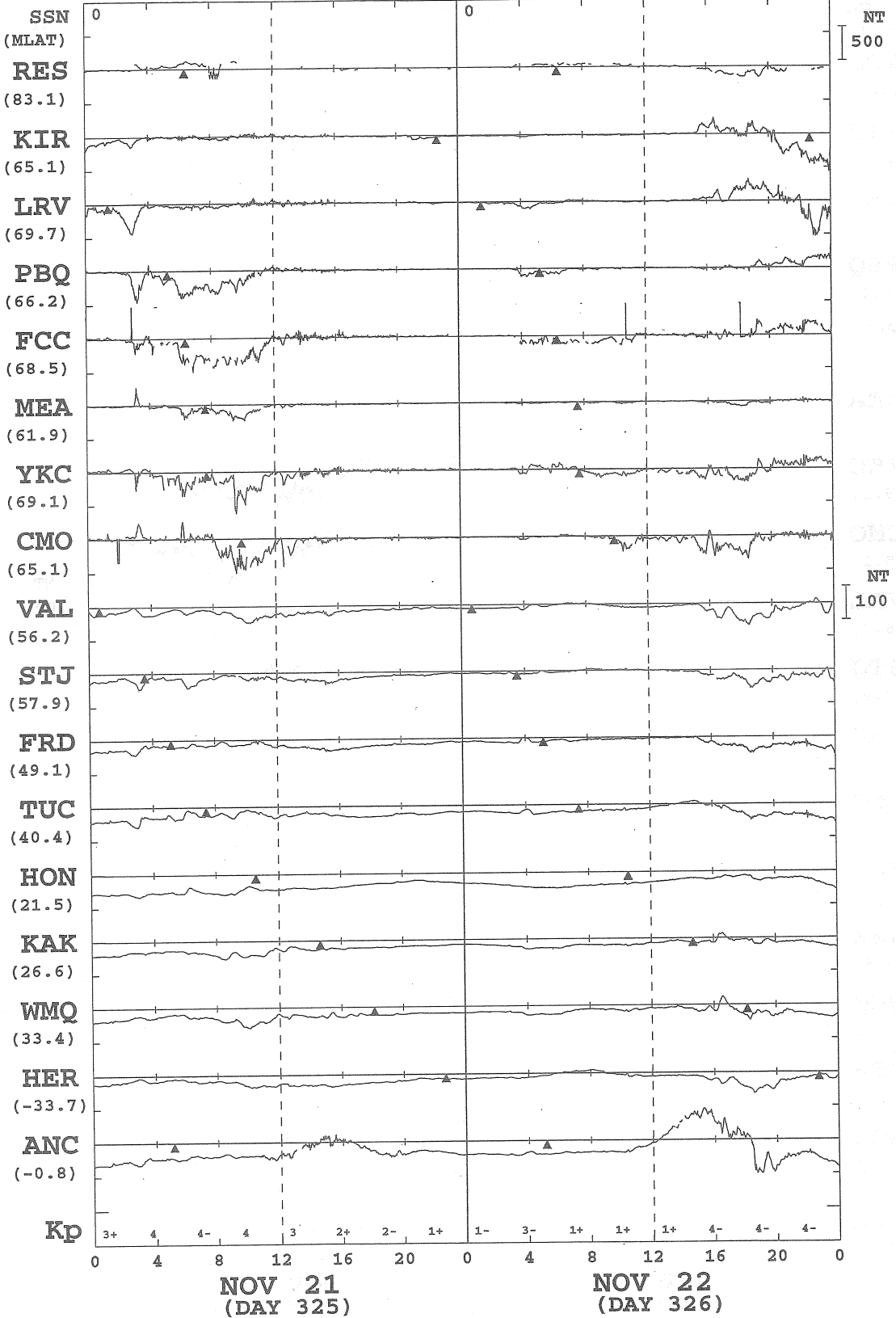


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

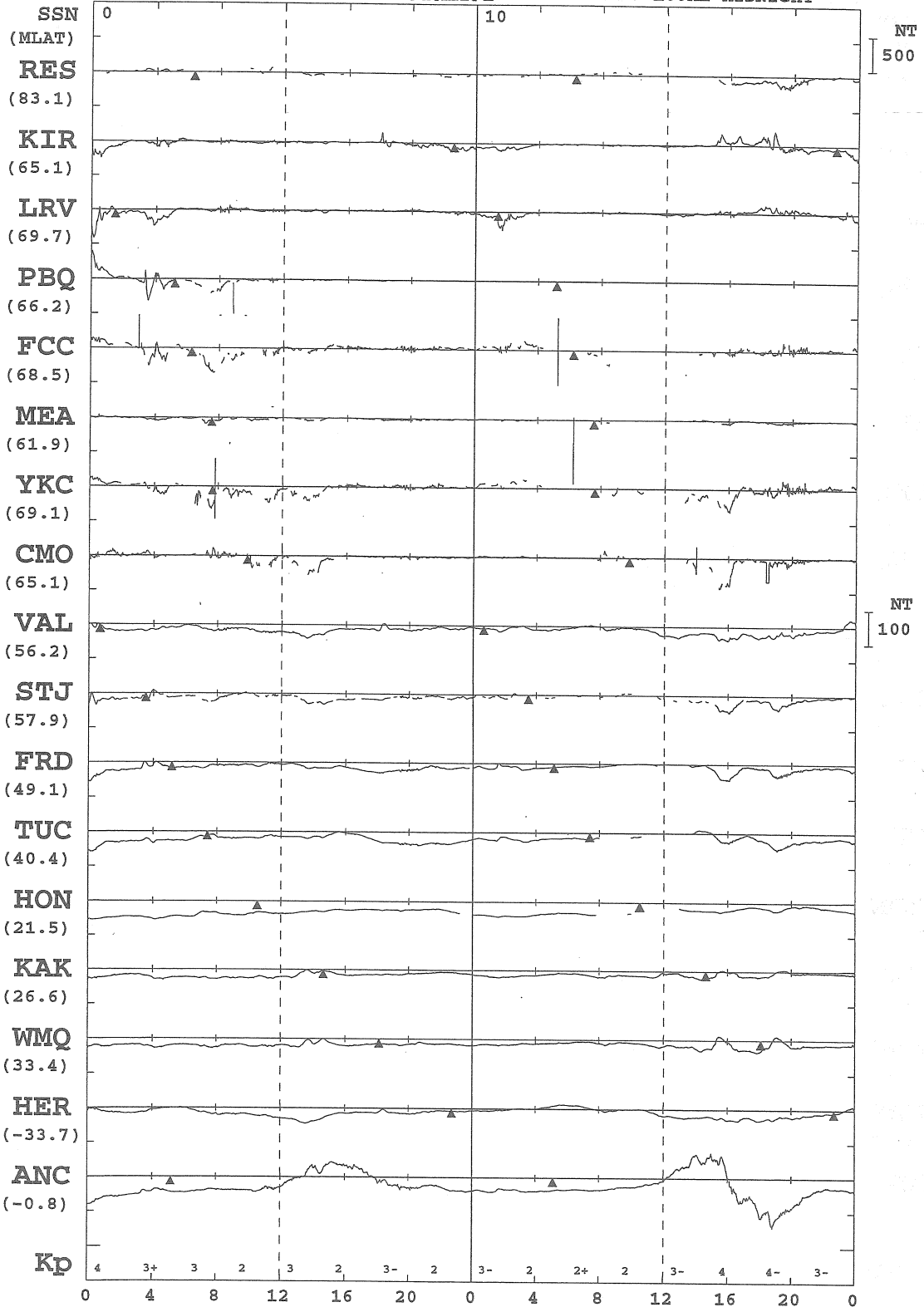


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



NOV 23
(DAY 327)

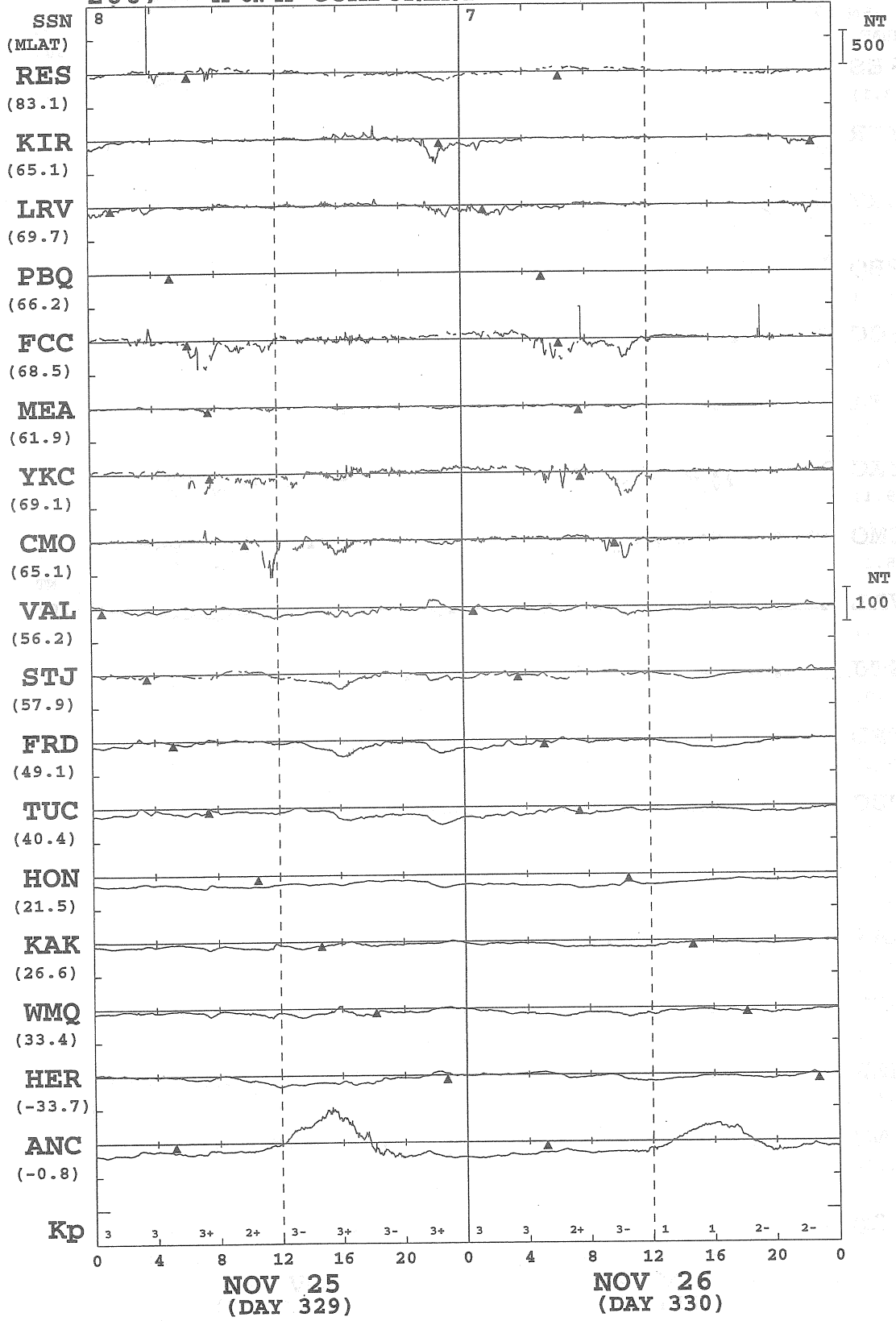
NOV 24
(DAY 328)

* 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

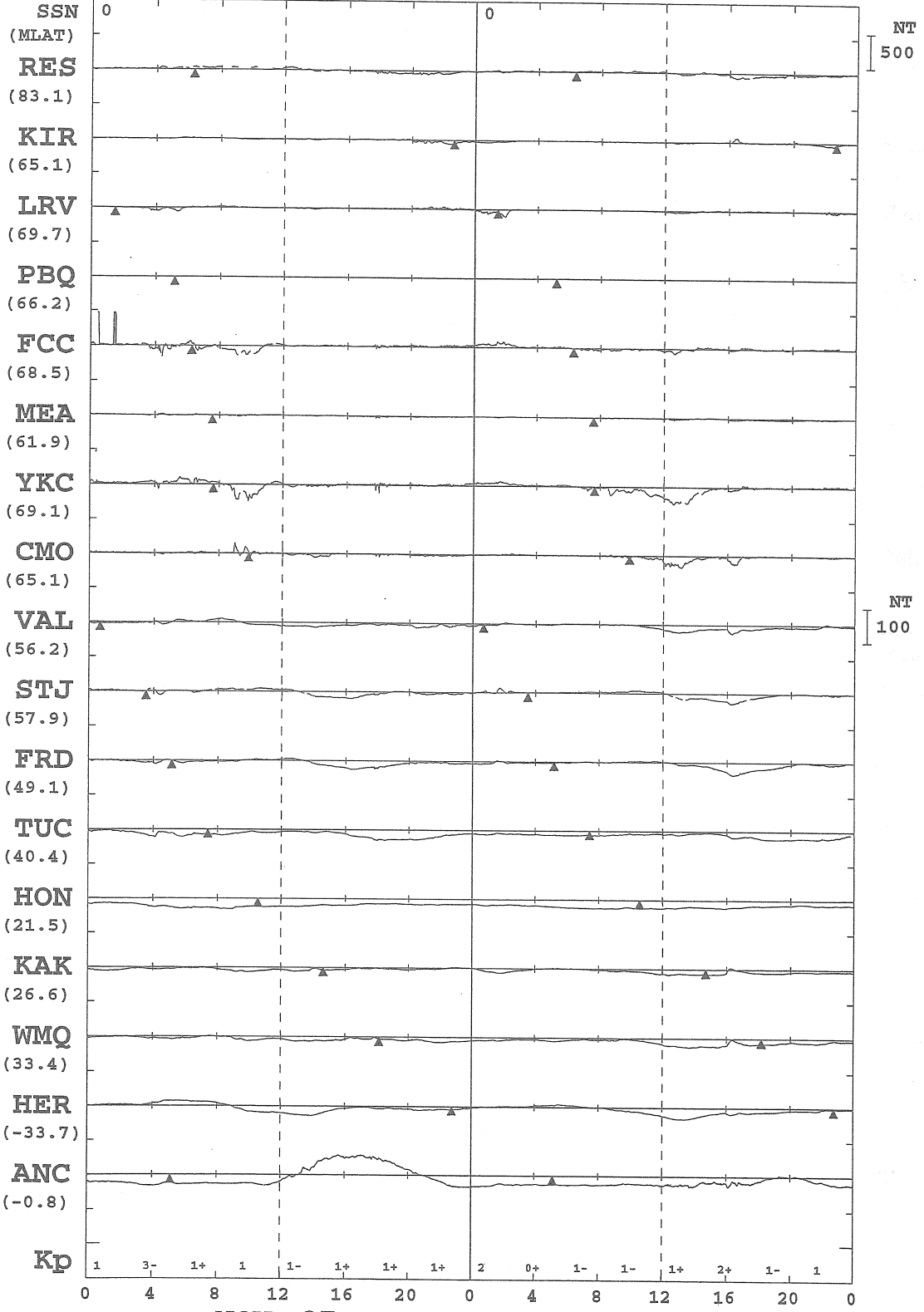


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



NOV 27
(DAY 331)

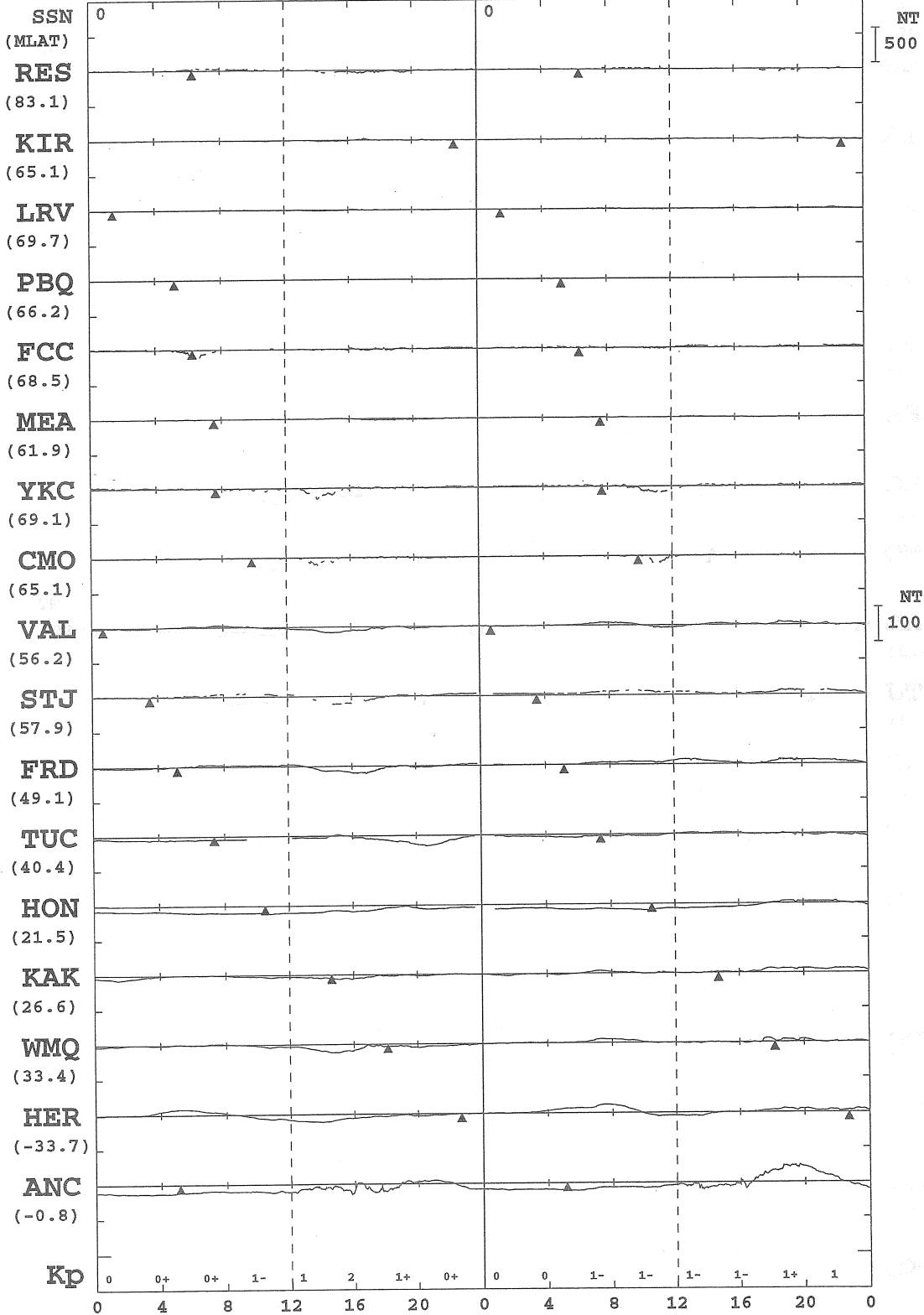
NOV 28
(DAY 332)

* 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



NOV 29
(DAY 333)

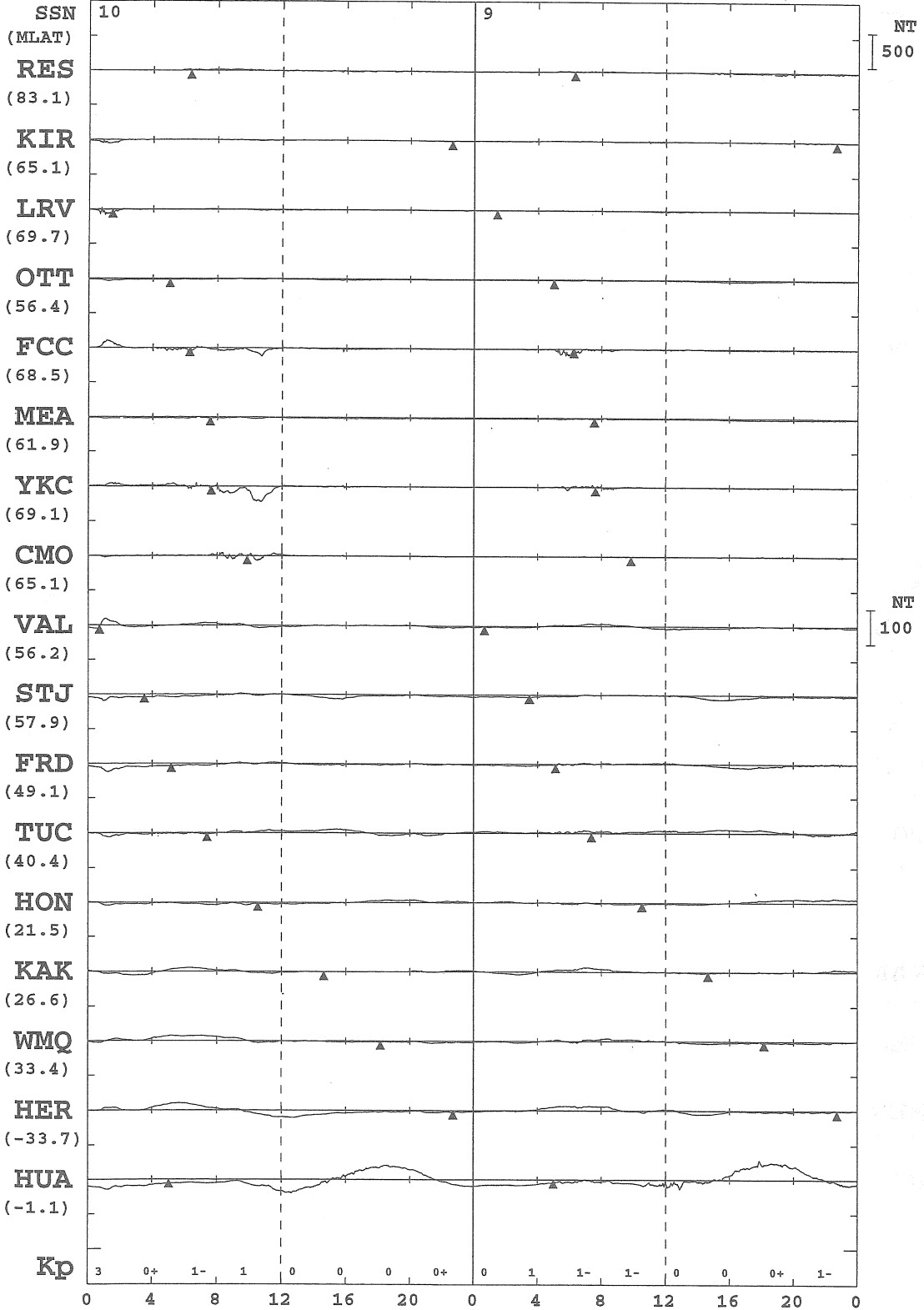
NOV 30
(DAY 334)

* 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



DEC 1
(DAY 335)

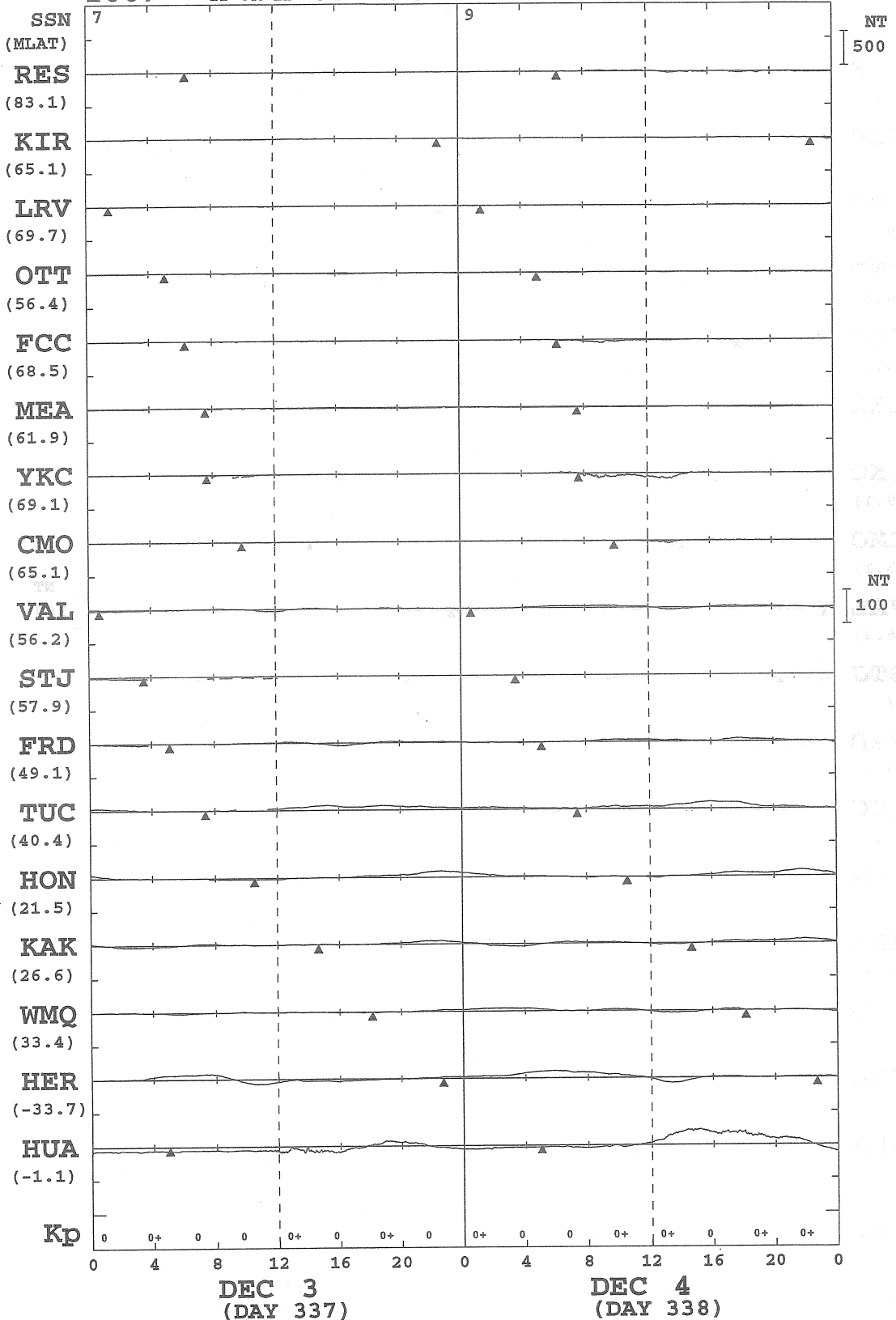
DEC 2
(DAY 336)

* 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

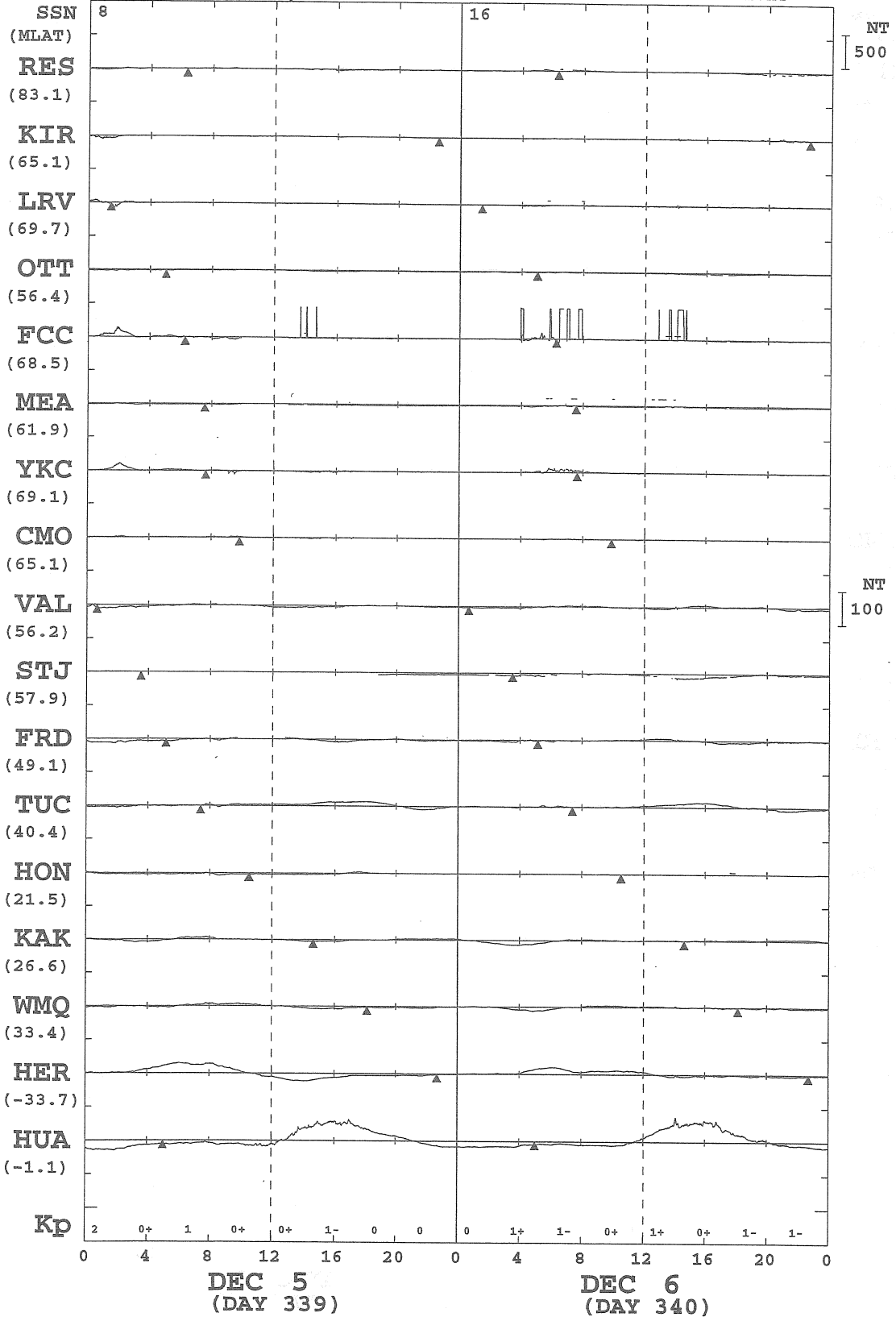


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

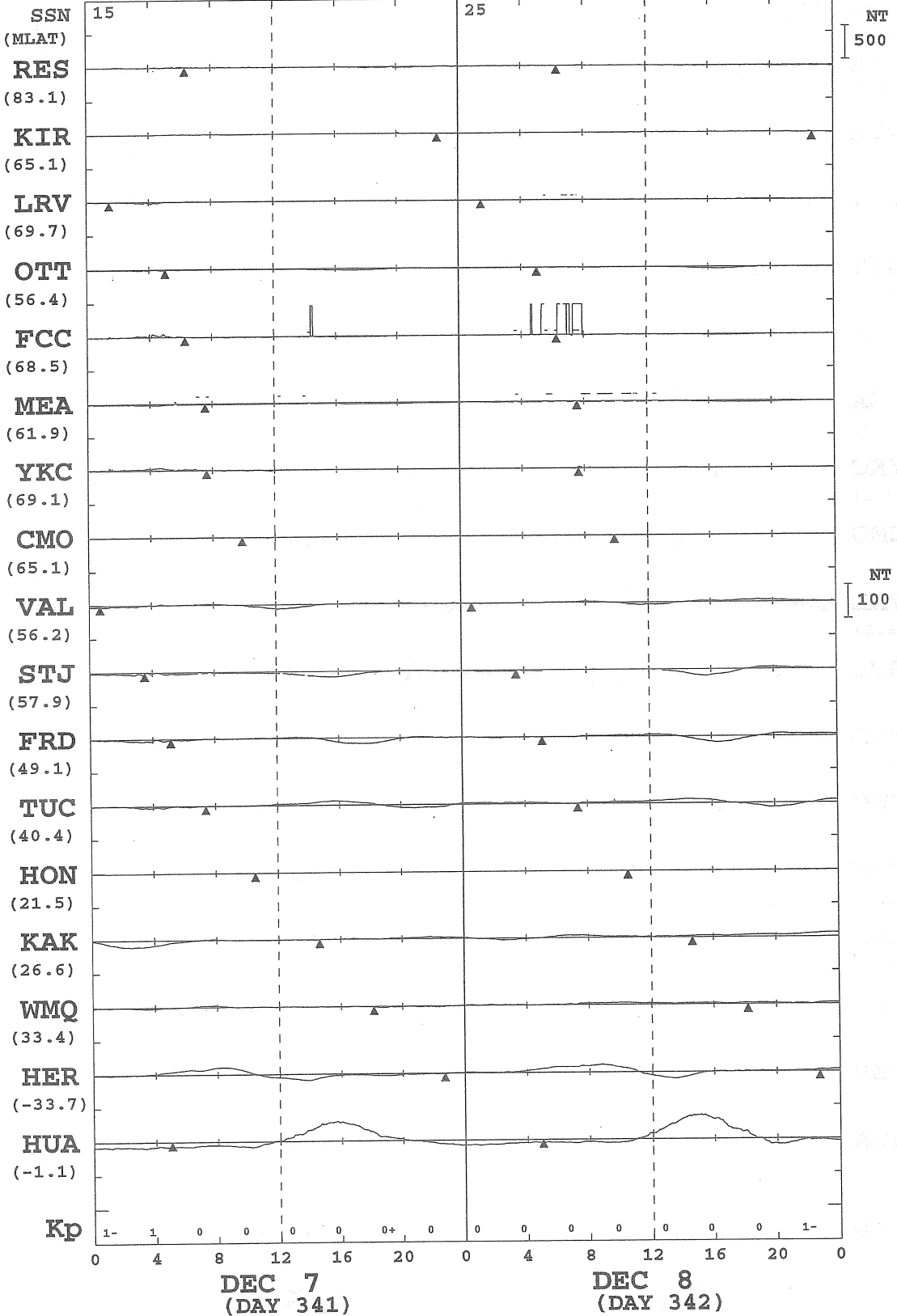
▲ : LOCAL MIDNIGHT



* 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 Δ : LOCAL MIDNIGHT

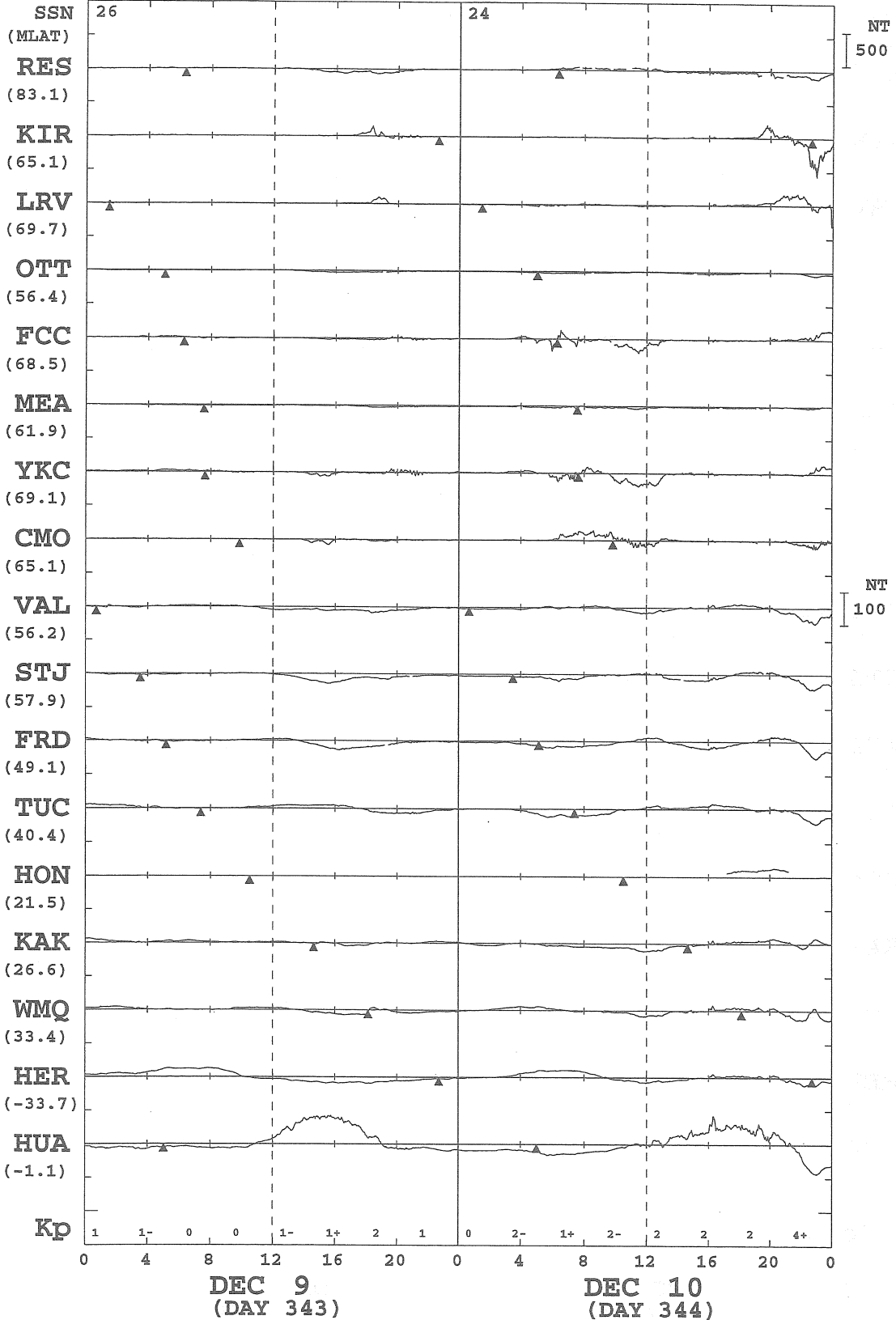


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

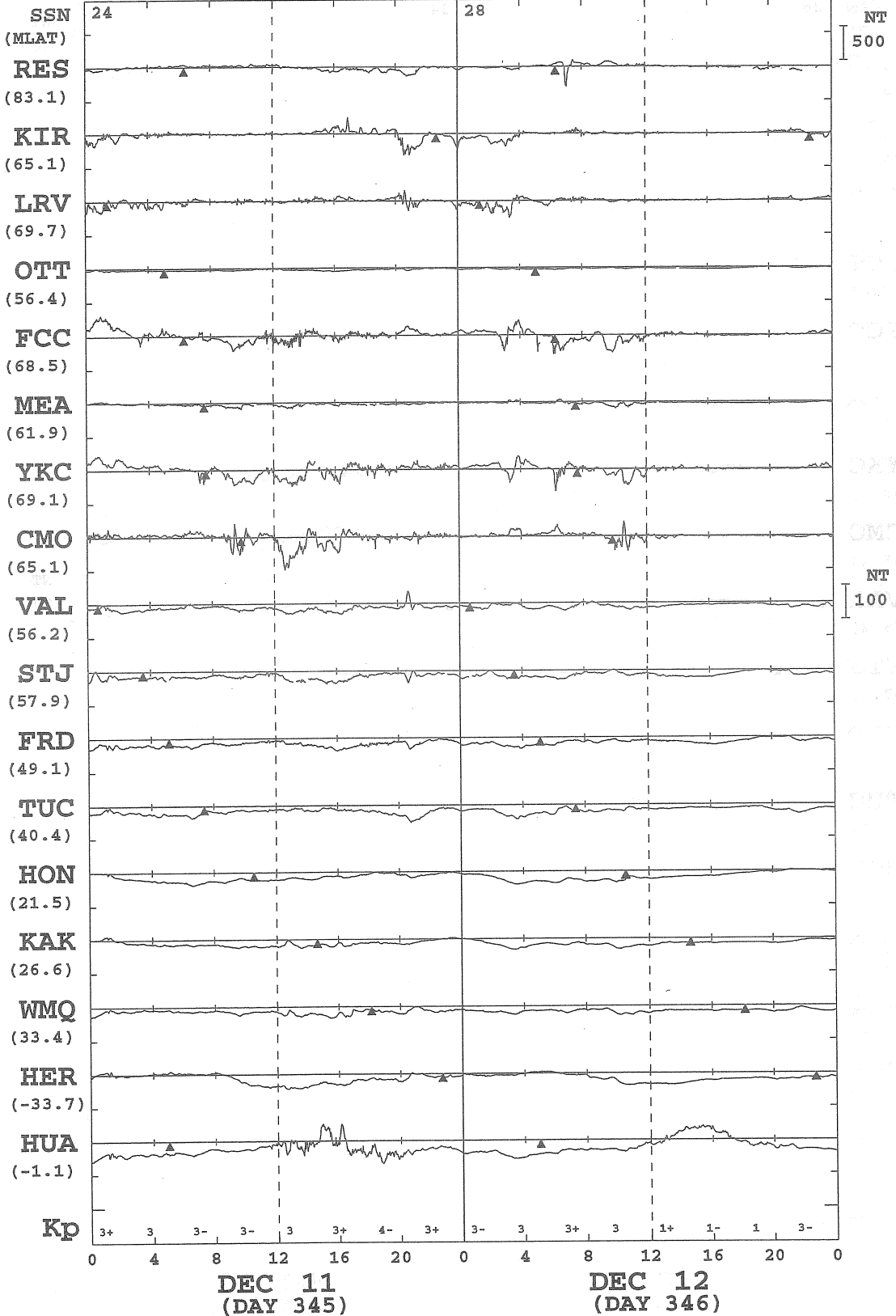
▲ : LOCAL MIDNIGHT



* 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

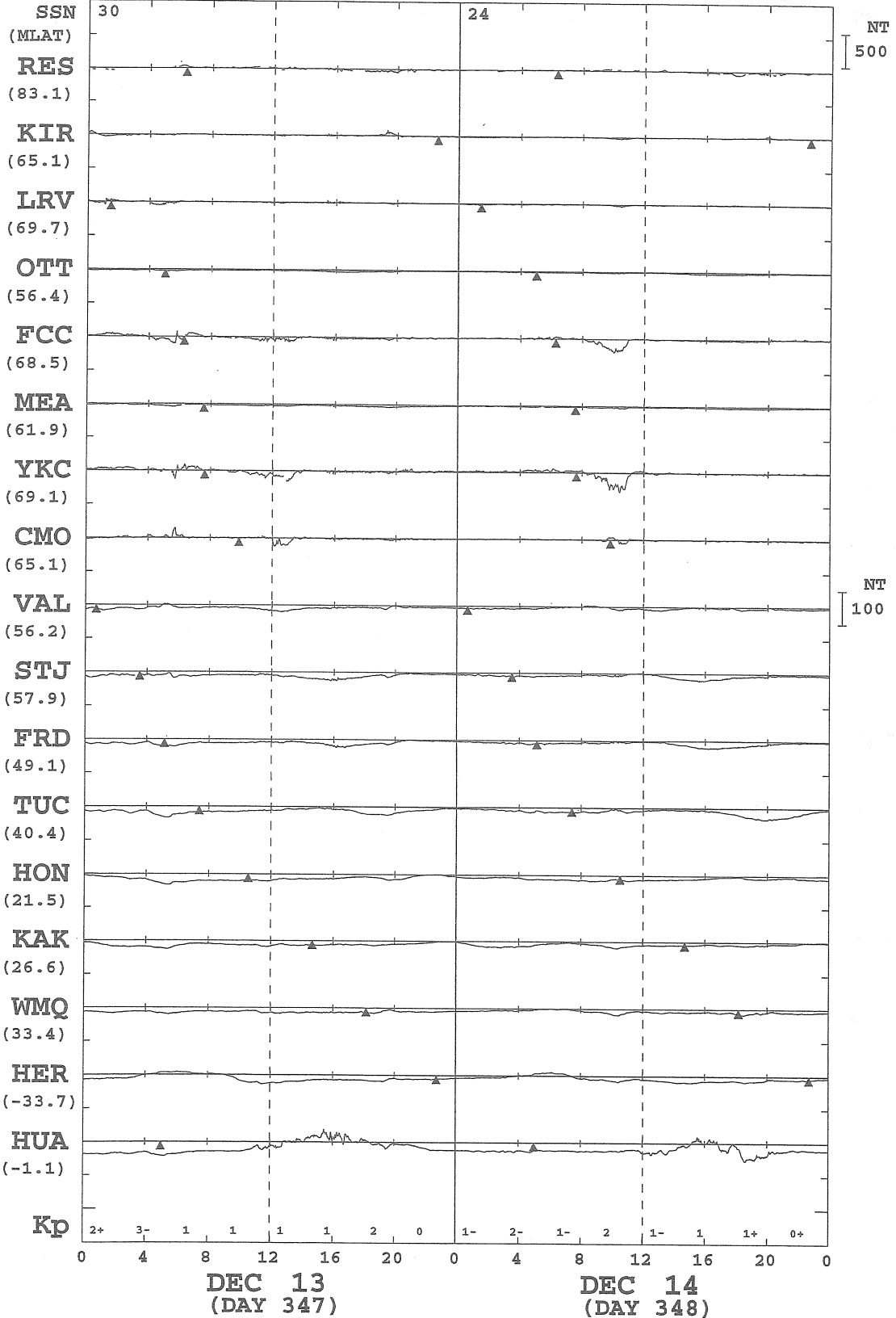


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

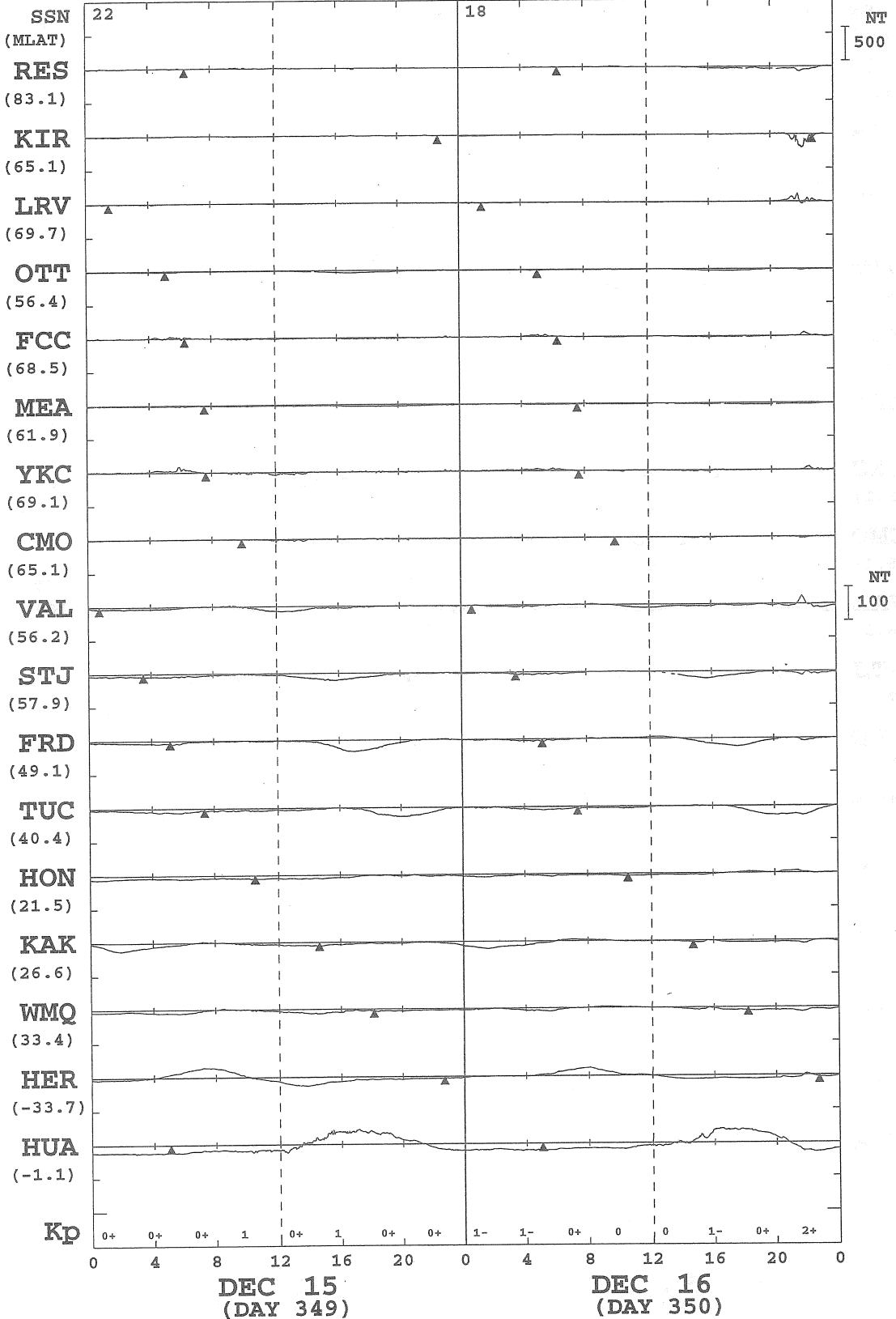


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

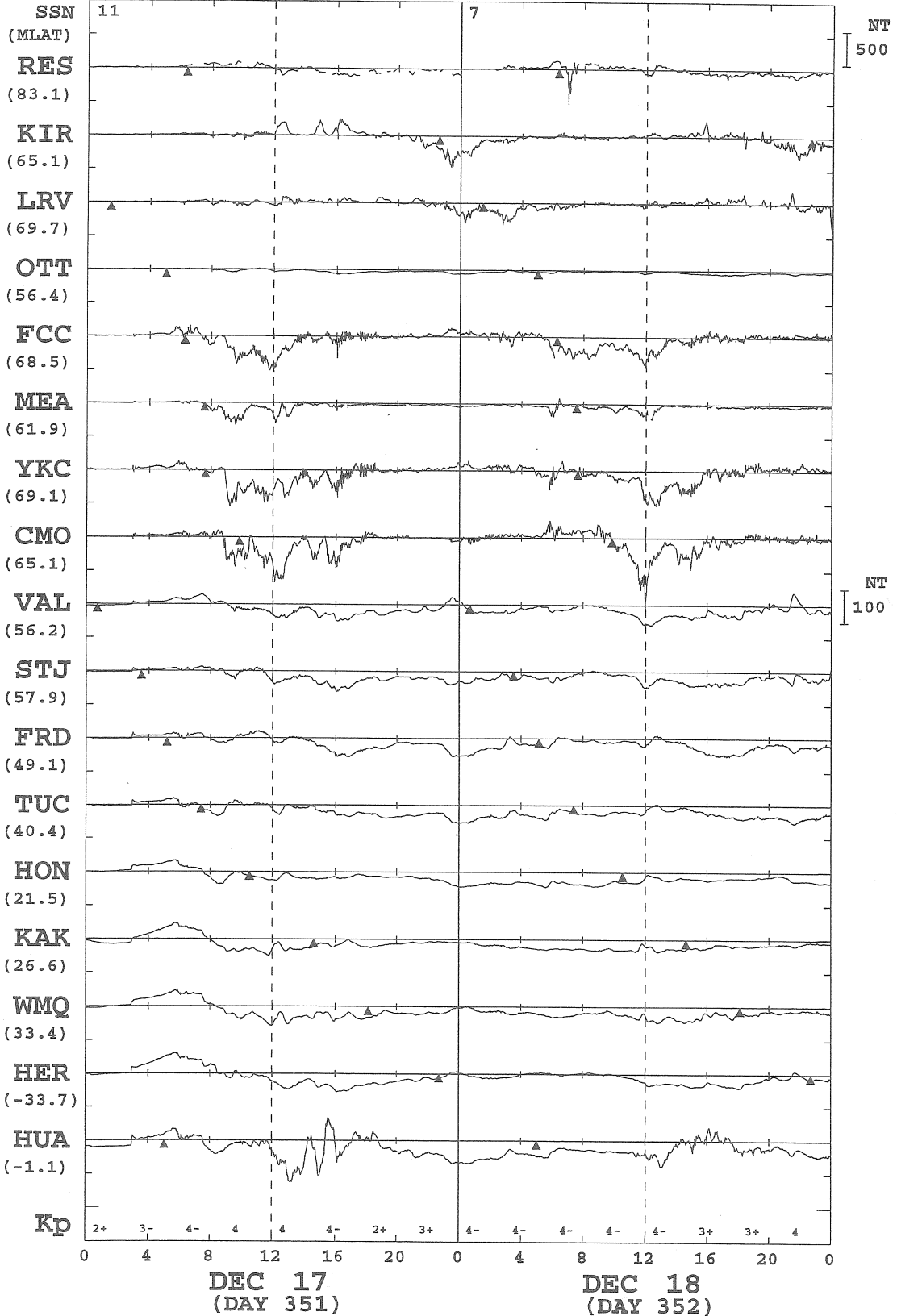


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

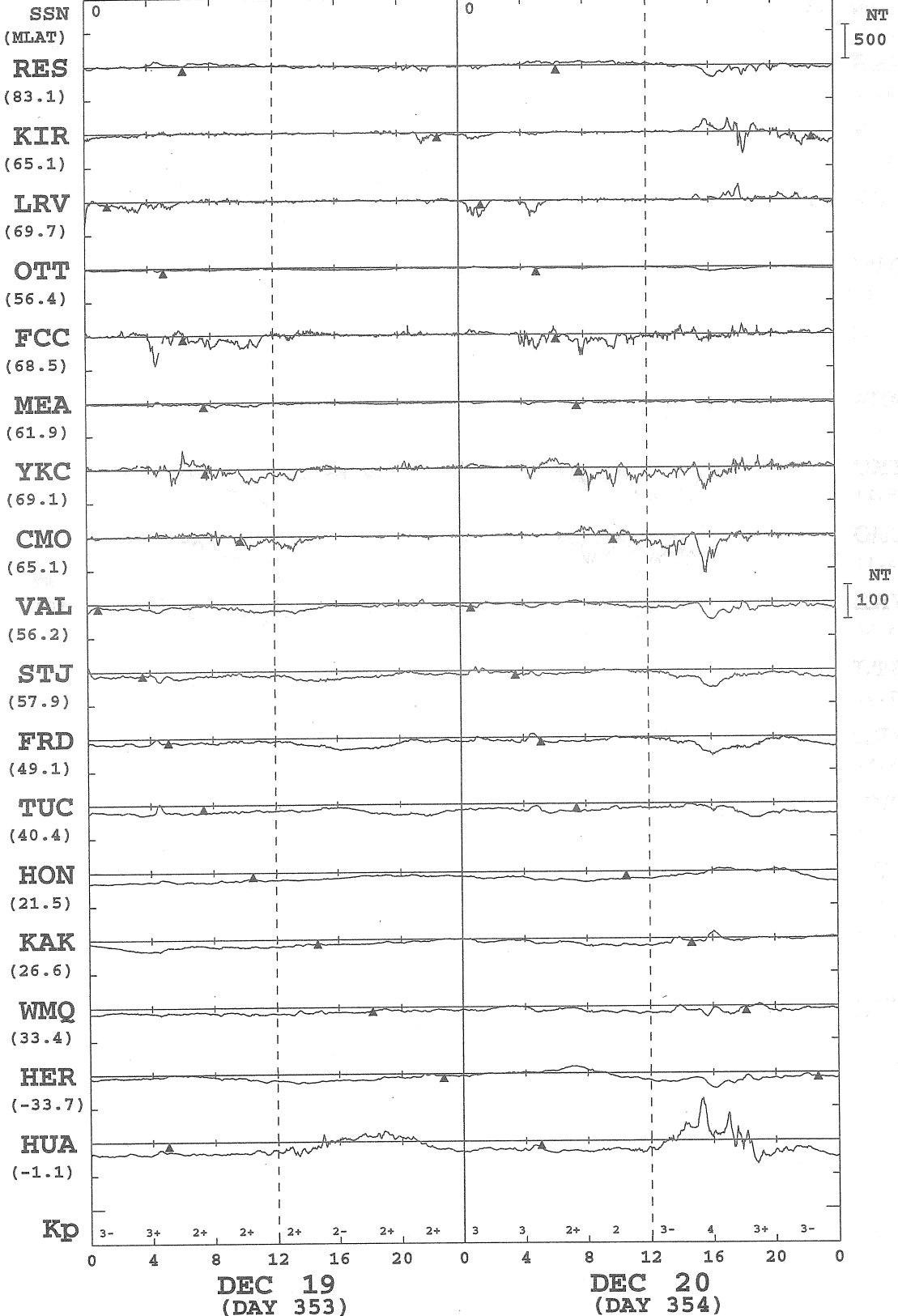


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

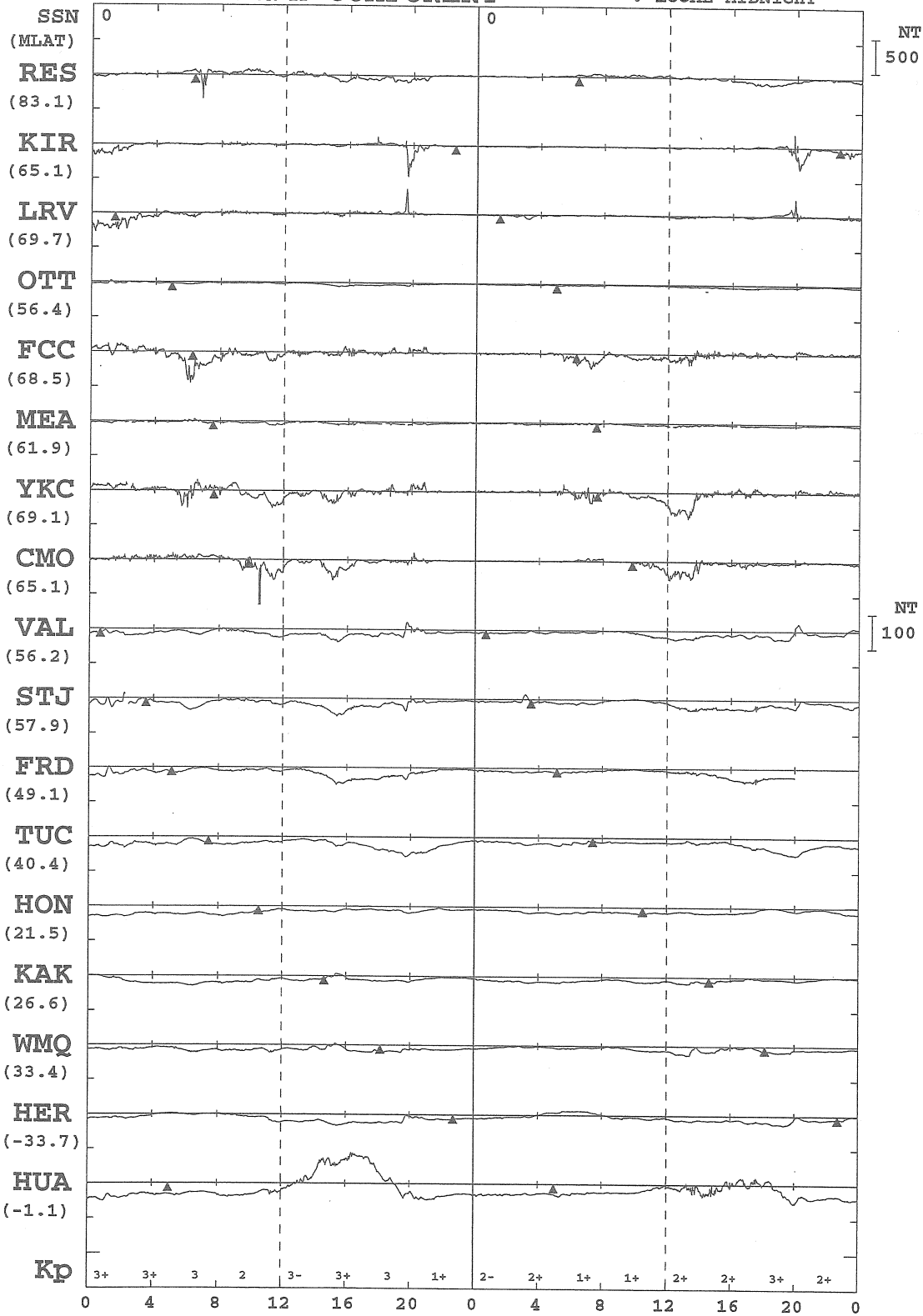


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT

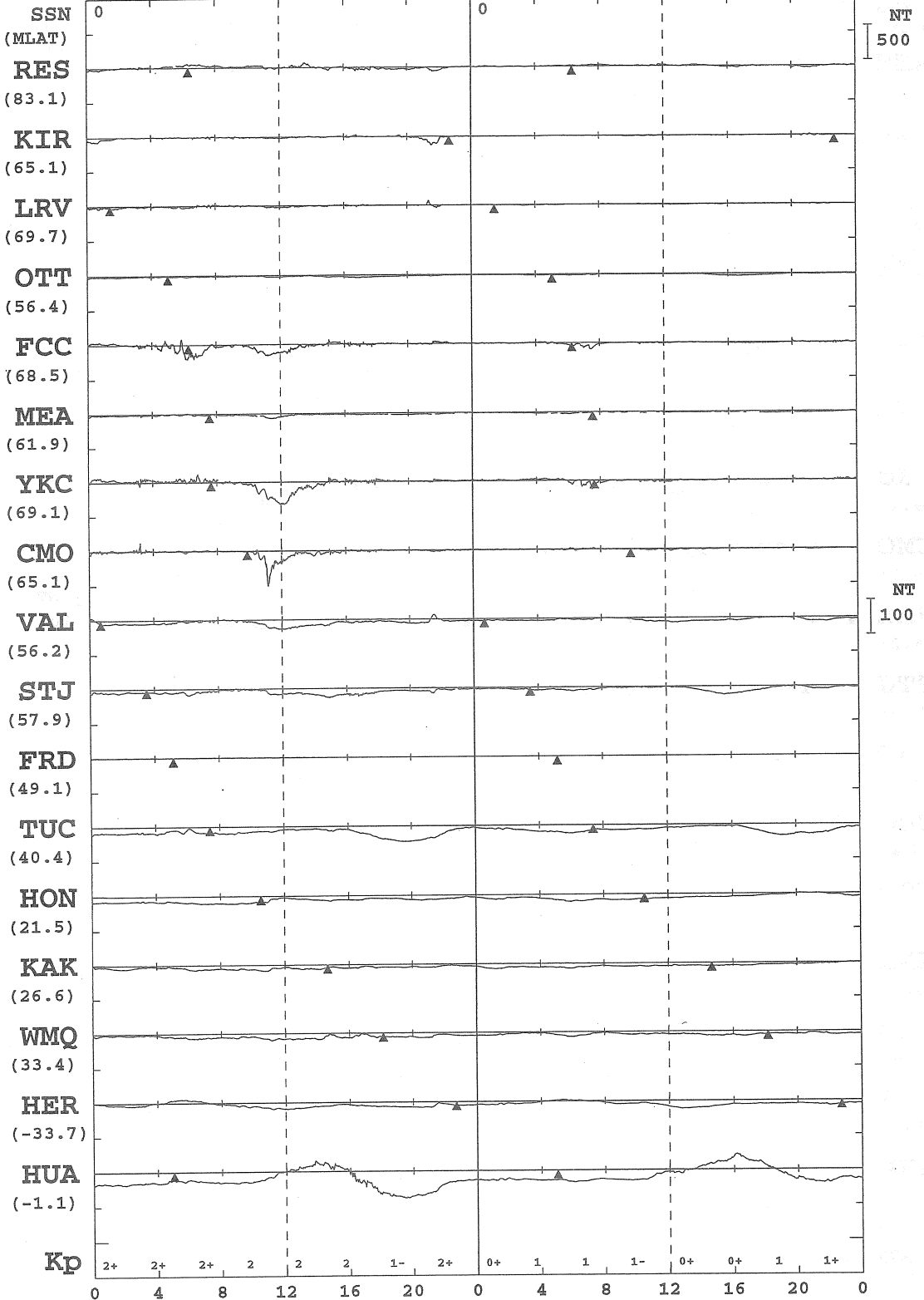


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

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2007 H OR X-COMPONENT

▲ : LOCAL MIDNIGHT



DEC 23
(DAY 357)

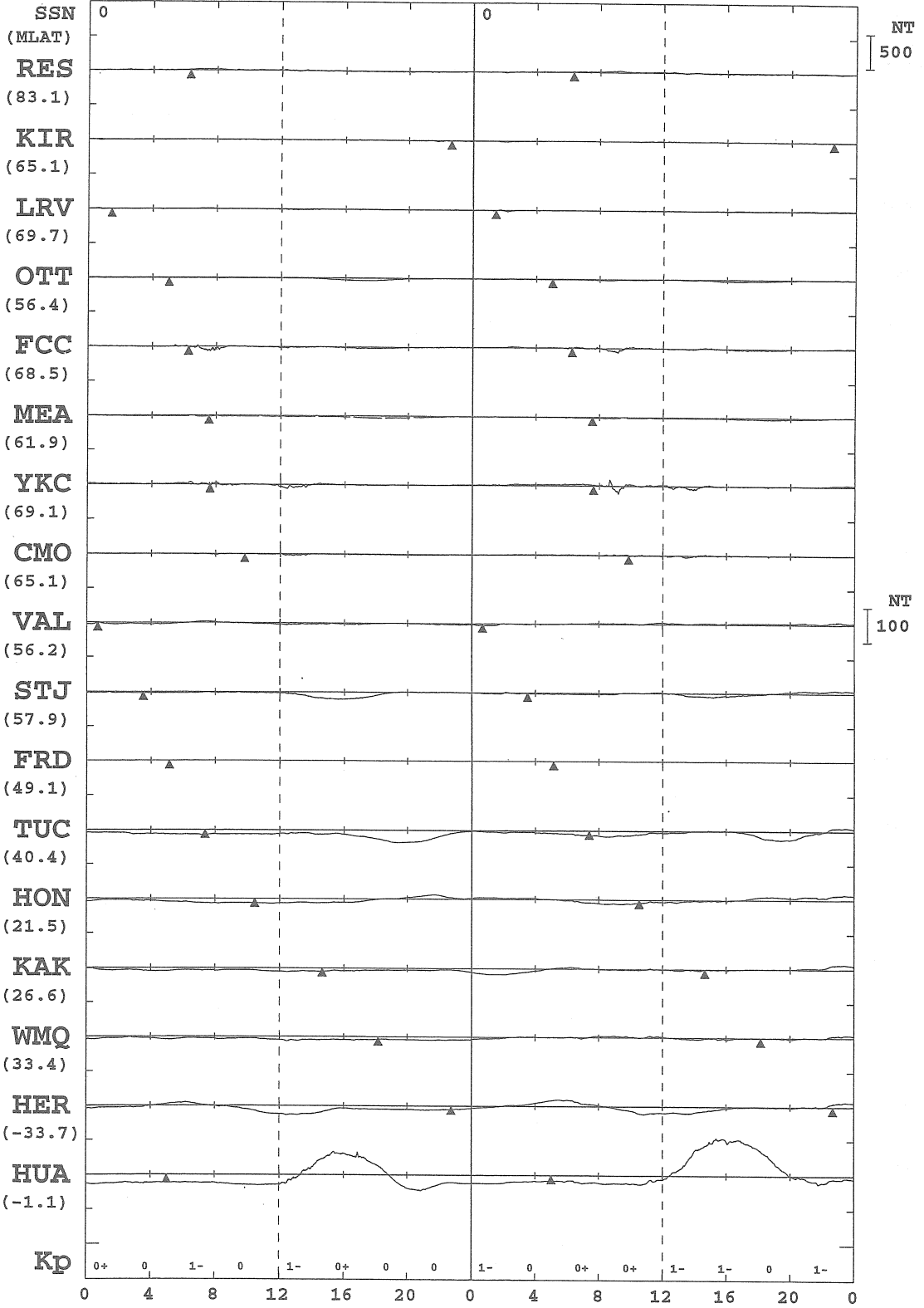
DEC 24
(DAY 358)

* 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



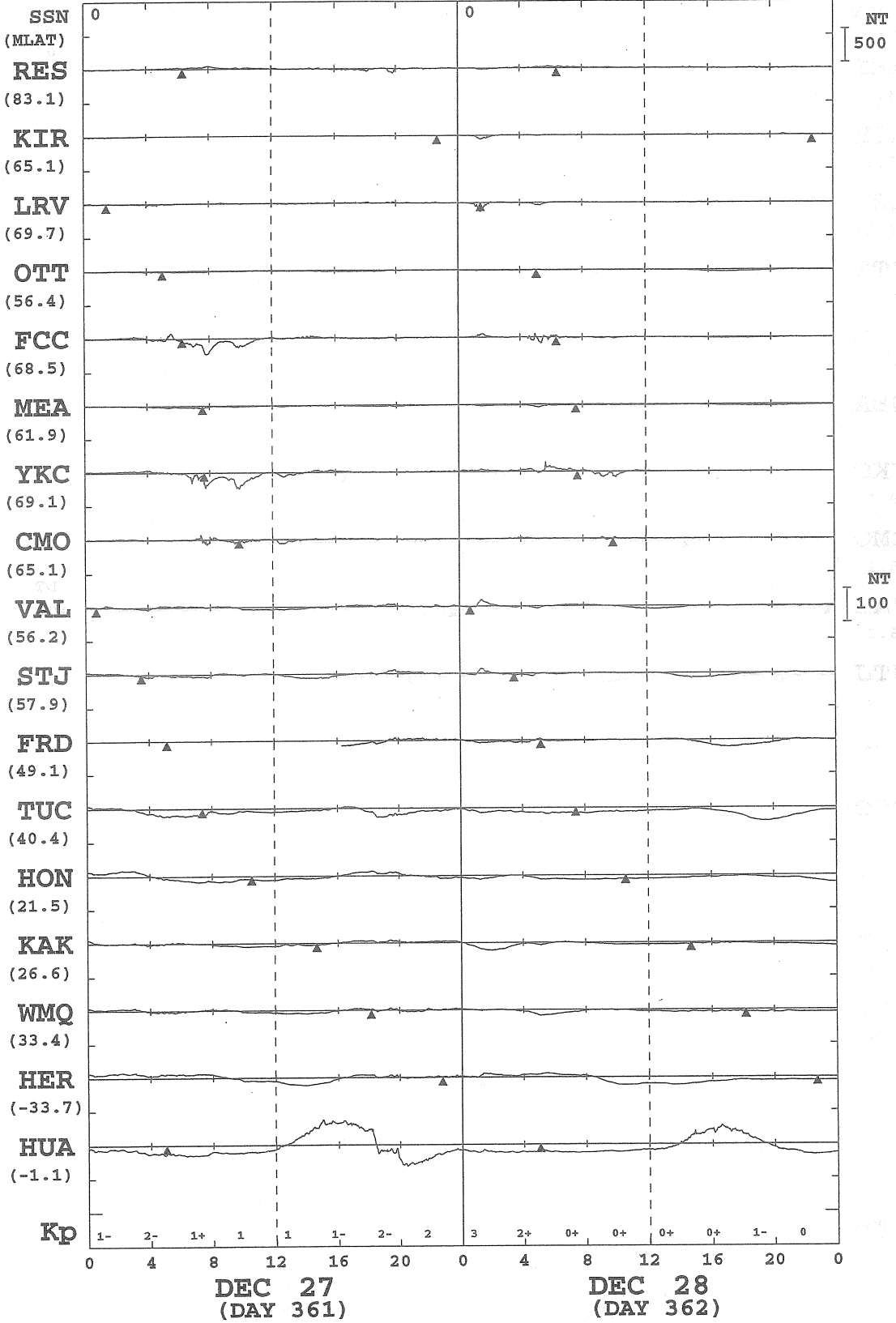
DEC 25
(DAY 359)

DEC 26
(DAY 360)

* 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

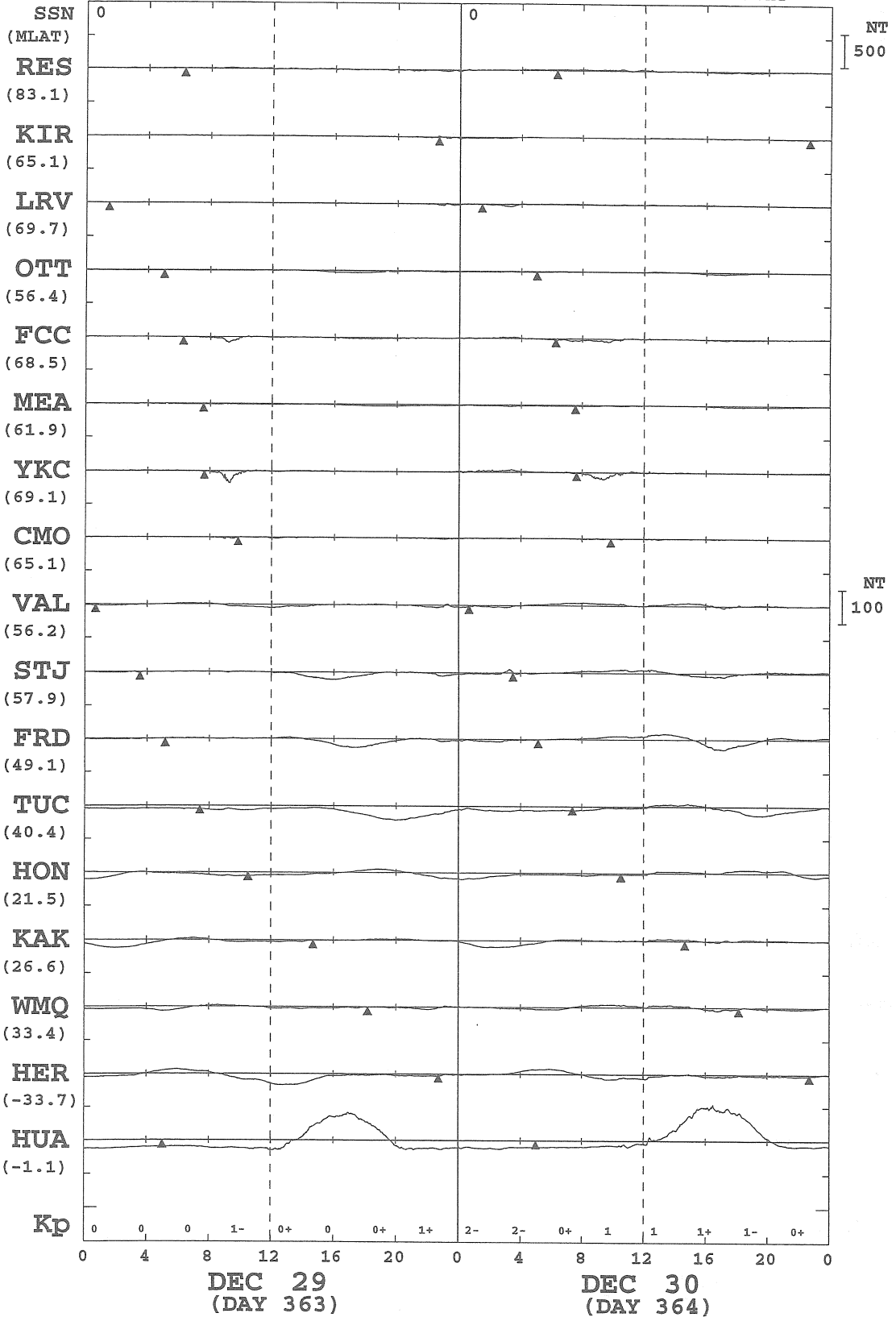


* MONTHLY MEAN OF 5-QUIET DAYS IS SUBTRACTED
 * PROMPT DATA ARE INCLUDED
 * ARTIFICIAL NOISE HAS NOT BEEN ELIMINATED

KYOTO UNIV.

2007 H OR X-COMPONENT

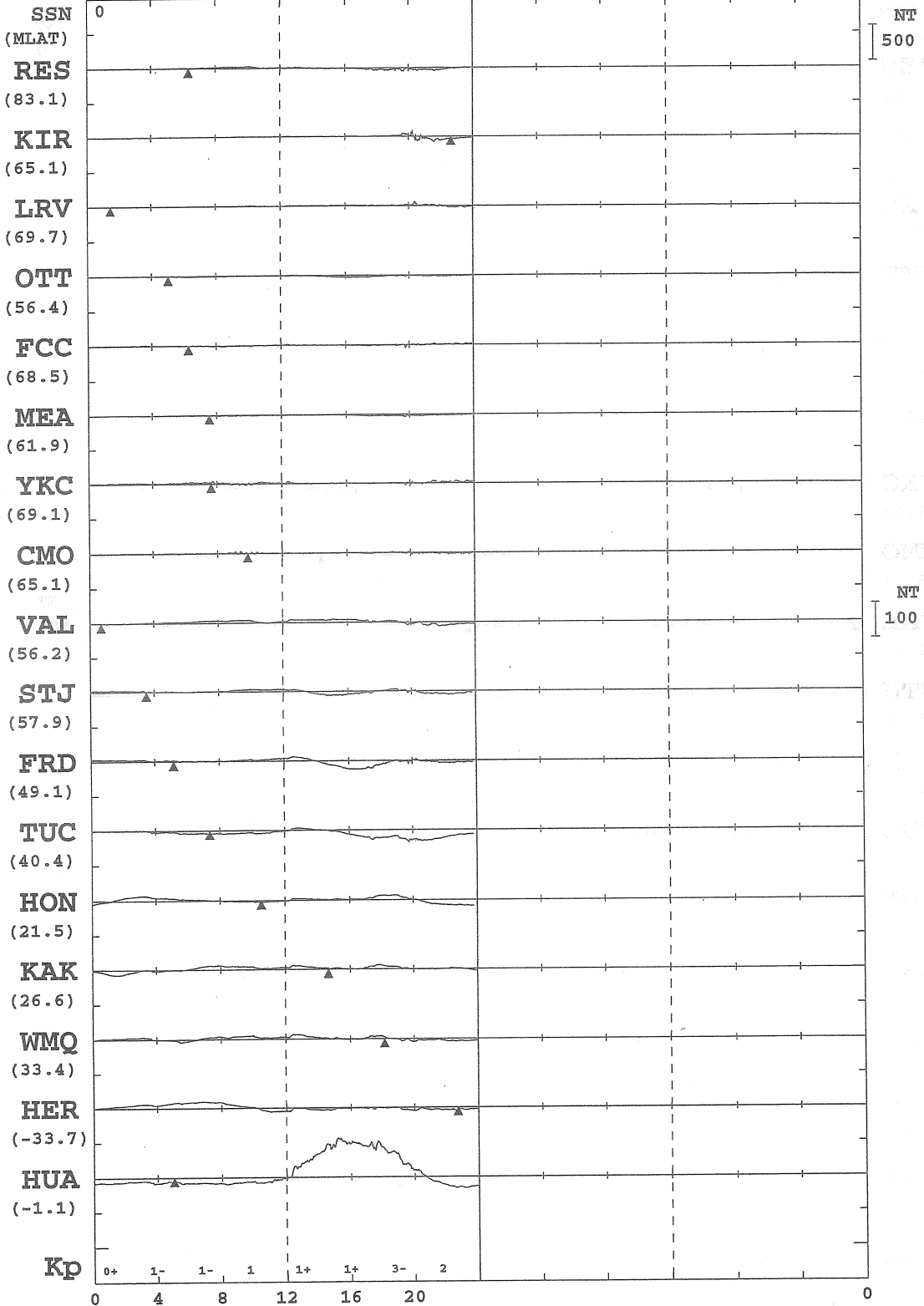
▲ : LOCAL MIDNIGHT



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

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2007 H OR X-COMPONENT ▲ : LOCAL MIDNIGHT



DEC 31
(DAY 365)

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

KYOTO UNIV.

