

**PROVISIONAL GEOMAGNETIC
DATA PLOTS**

No. 1

(January – December, 1989)

MARCH 1990

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

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PREFACE

This booklet contains provisional plots of the geomagnetic data for 1989. One minute values of the horizontal (or the northward) component are plotted after subtracting the monthly mean of the five-quiet days. The purpose of this booklet is to give the information of world-wide geomagnetic disturbances with high-time resolution as early as possible. Hence the provisional data without base-line control are included. There still remain artificial noises on the plots though we tried to eliminate them. Users should be careful on these points, and the plots in this booklet should not be used in other publications.

The one-minute time resolution provisional data from the U.S. stations (i.e. SAH, BRW, CMO, TLK, SJG, BOU and HON) were provided by the World Data Center-A through their RGON database. The data from Leirvogur were provided by the Leirvogur Magnetic Observatory, University of Iceland. The data from Kakioka were provided by the Kakioka Magnetic Observatory. The data from Luning were provided by the Telecommunication Training Institute. The information on these stations is shown in Table 1.

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

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

Telephone: 075-753-3929
Facsimile: 075-722-7884

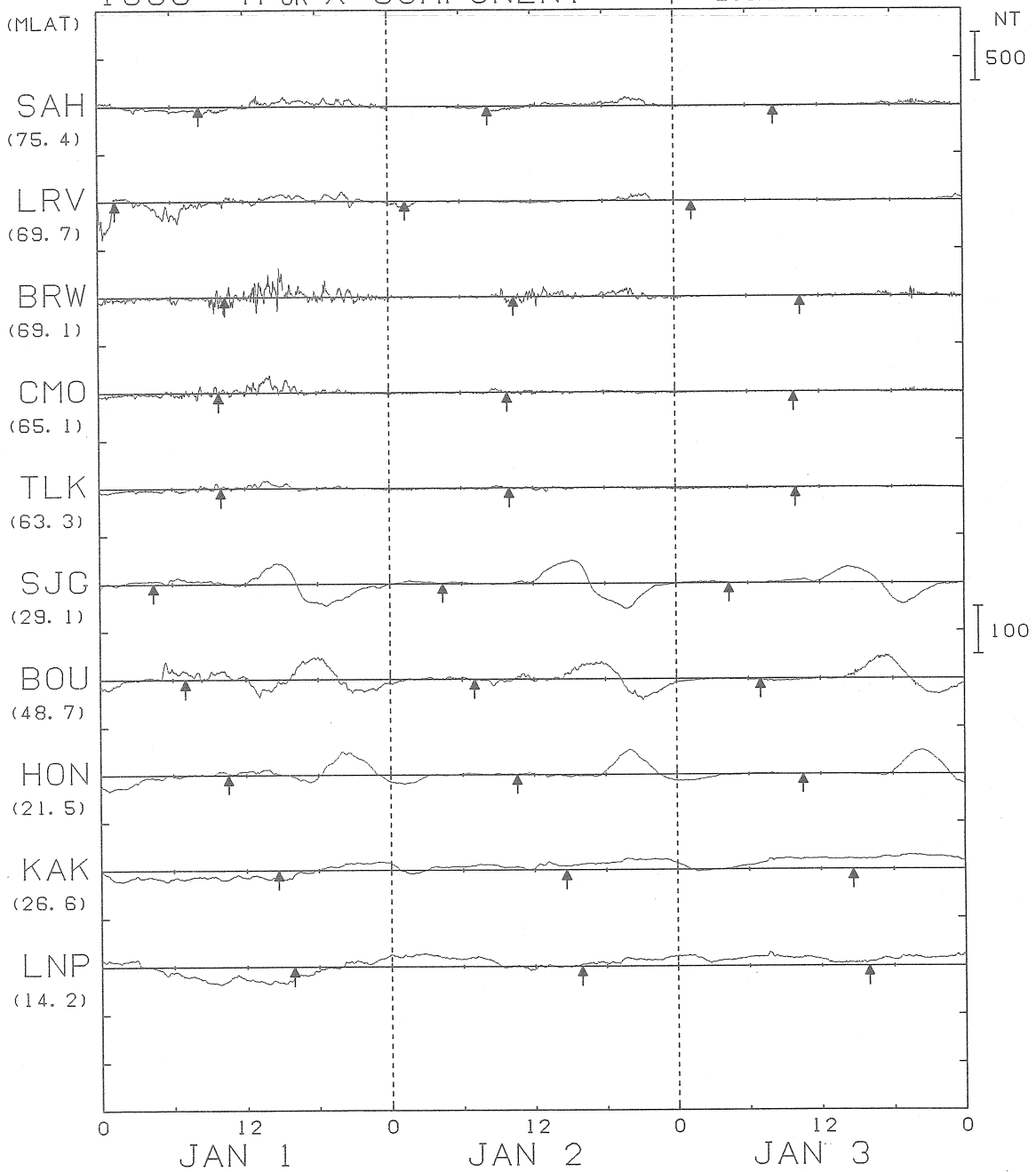
Table 1.

STATION NAME	ABB CODE	GEOGRAPHIC		GEOMAGNETIC		INVARIANT LAT.	PLOT SCALE
		LAT.	LONG.	LAT.	LONG.		
Sachs Harbor	SAH	72.0	235.0	75.4	269.1	76.3	500nT/div
Leirvogur	LRV	64.2	338.3	69.7	72.0	65.7	"
Barrow	BRW	71.3	203.3	69.1	243.7	69.6	"
College	CMO	64.9	212.2	65.1	259.2	64.8	"
Talkeetna	TLK	63.3	209.9	63.3	258.7	62.7	"
San Juan	SJG	18.4	293.9	29.1	5.2	32.5	100nT/div
Boulder	BOU	40.1	254.8	48.7	319.0	49.1	"
Honolulu	HON	21.3	202.0	21.5	268.6	20.2	"
Kakioka	KAK	36.2	140.2	26.6	207.8	25.9	"
Luning	LNP	25.0	121.2	14.2	191.3	7.6	"

JANUARY 1989

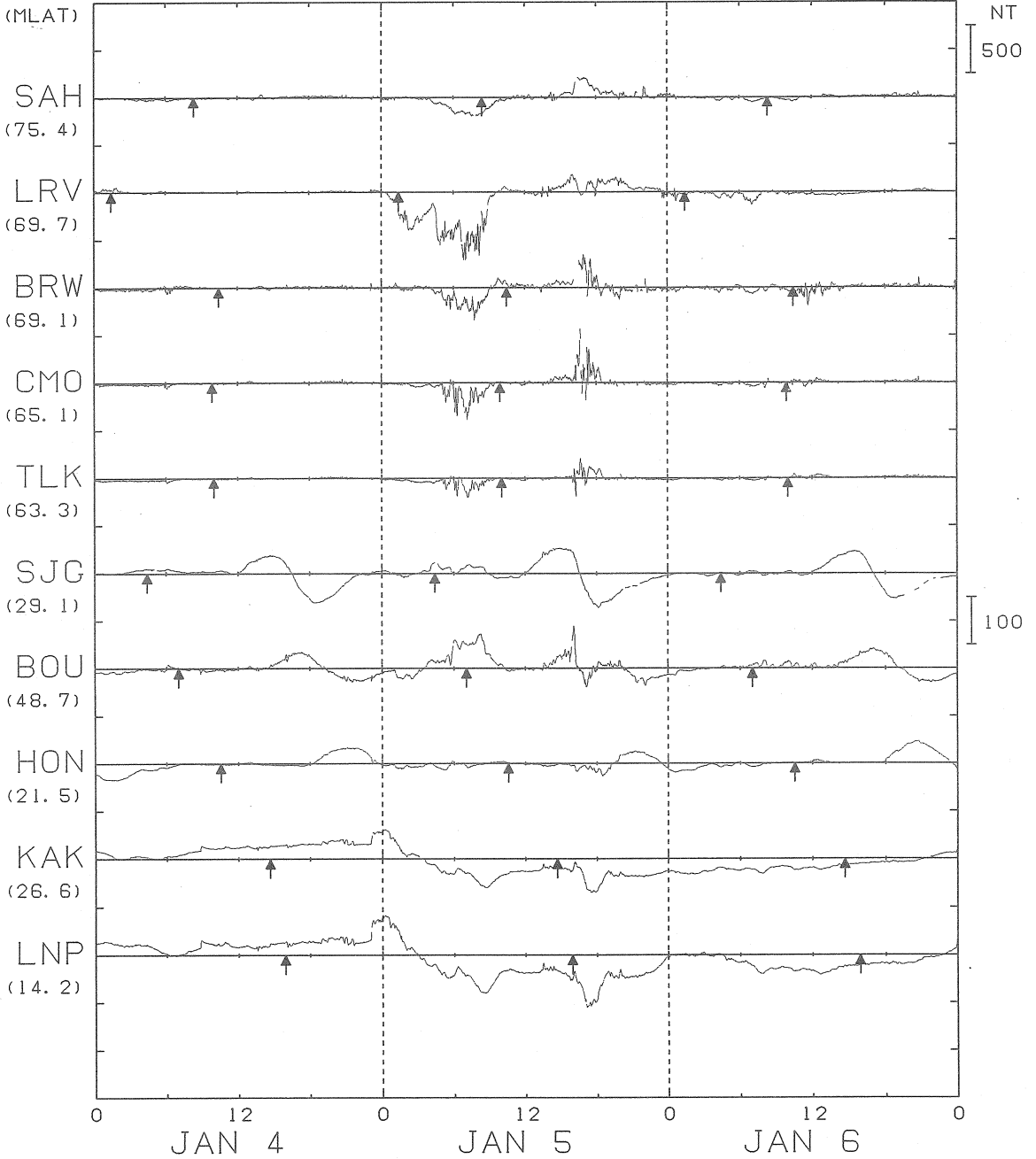
(DAY 001 - 031)

1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

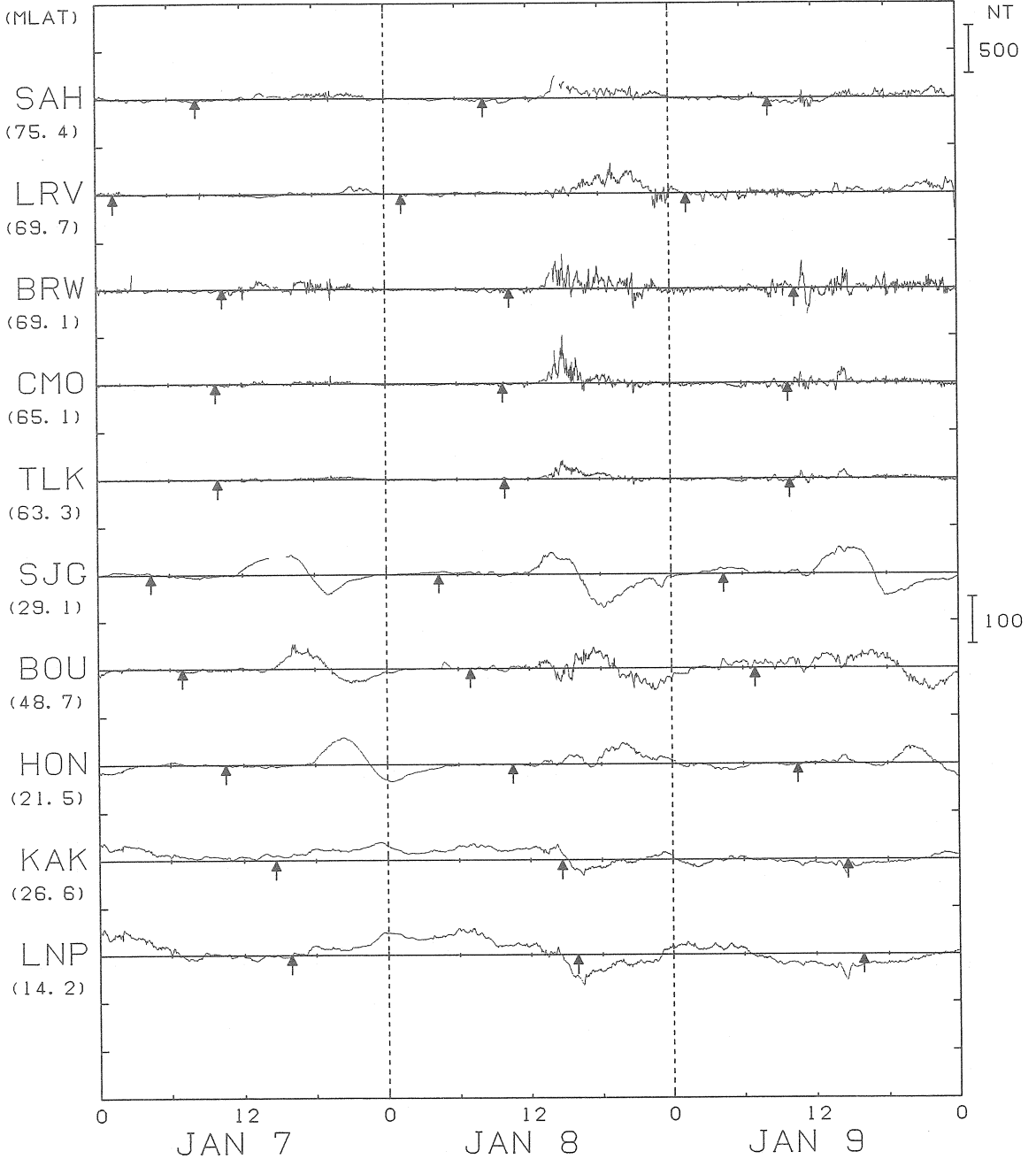
1989 H_{OR} X-COMPONENT ↑ : LOCAL MIDNIGHT



- * MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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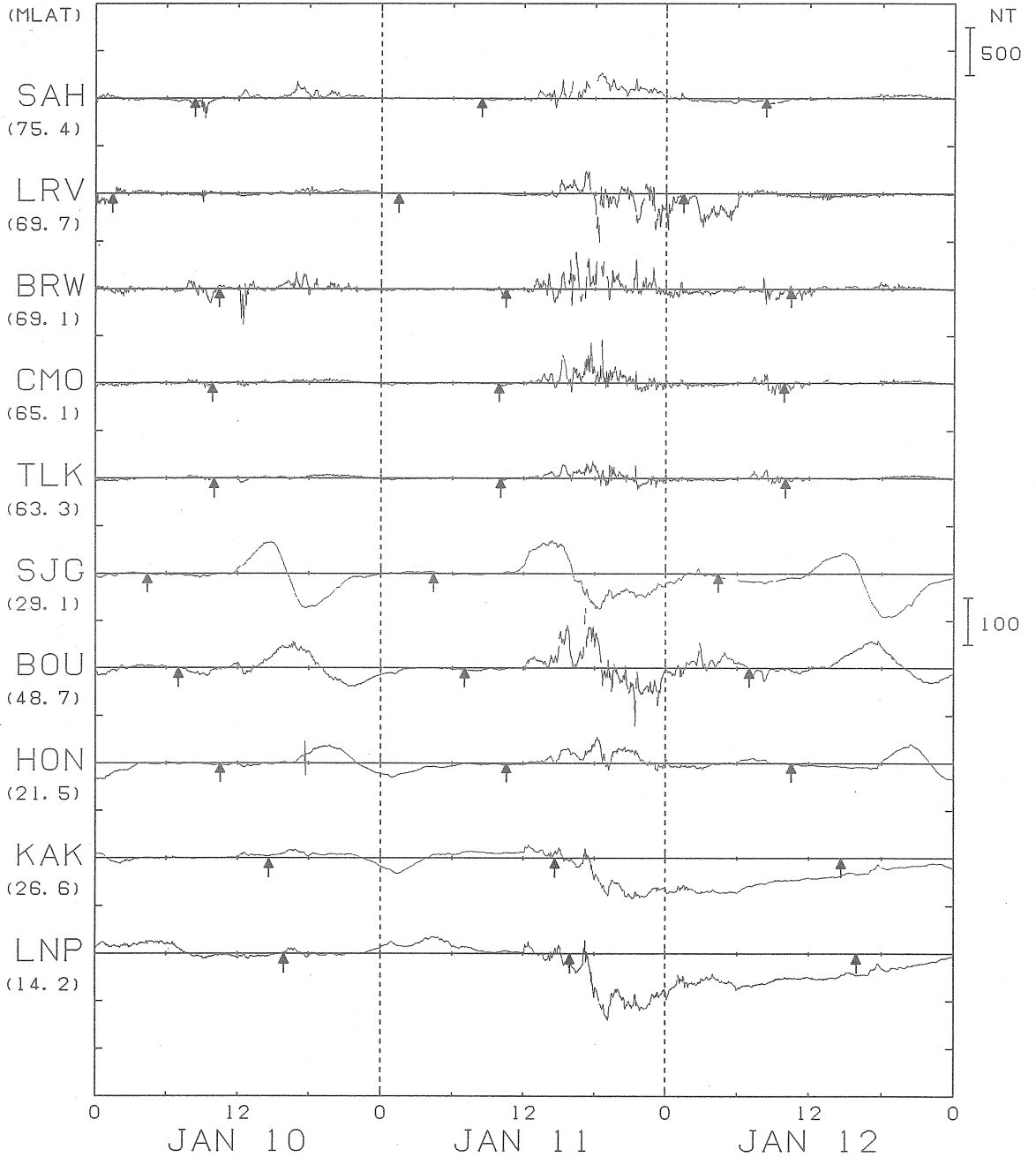
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



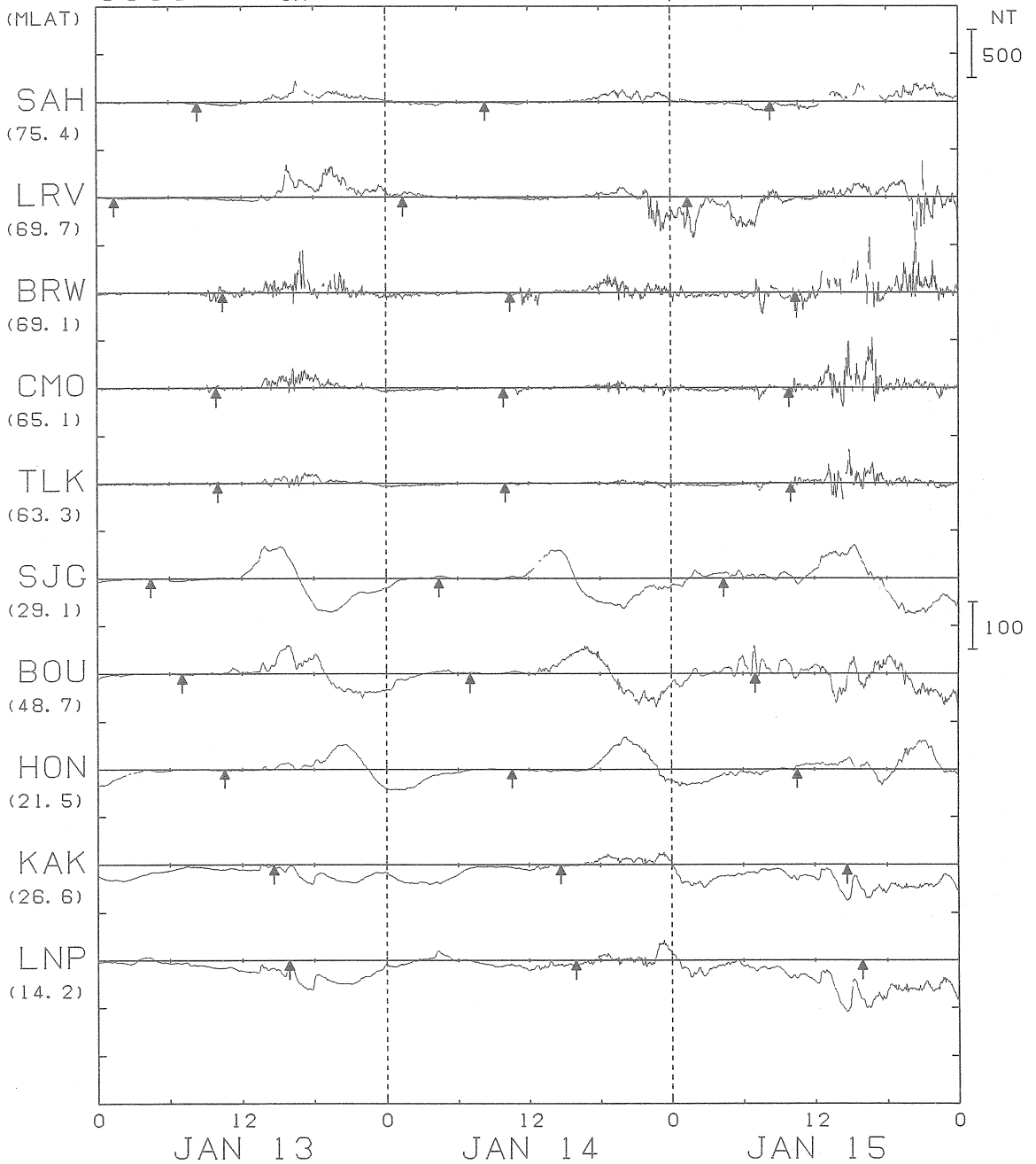
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

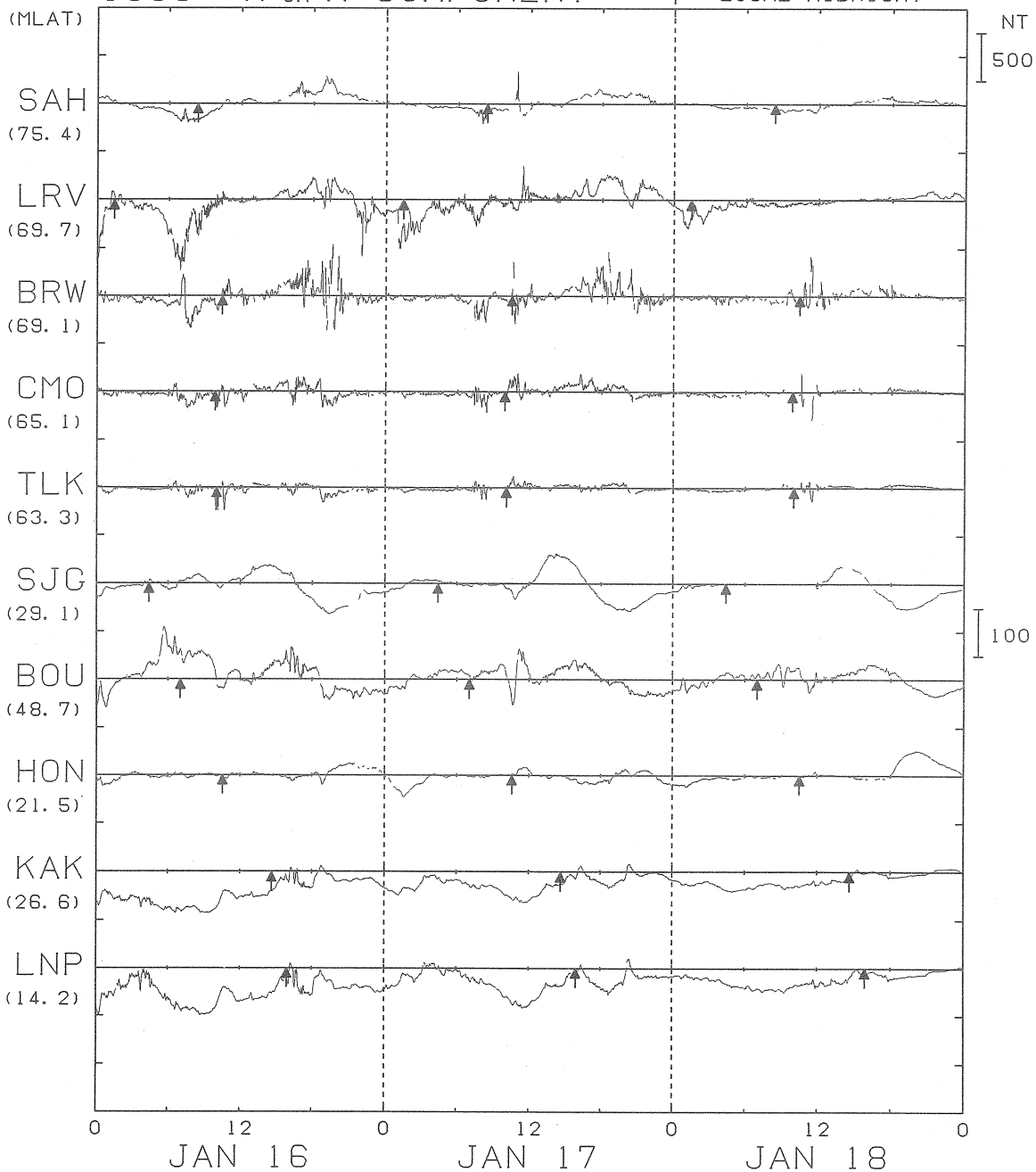
1989 H_{oR} X-COMPONENT ↑ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

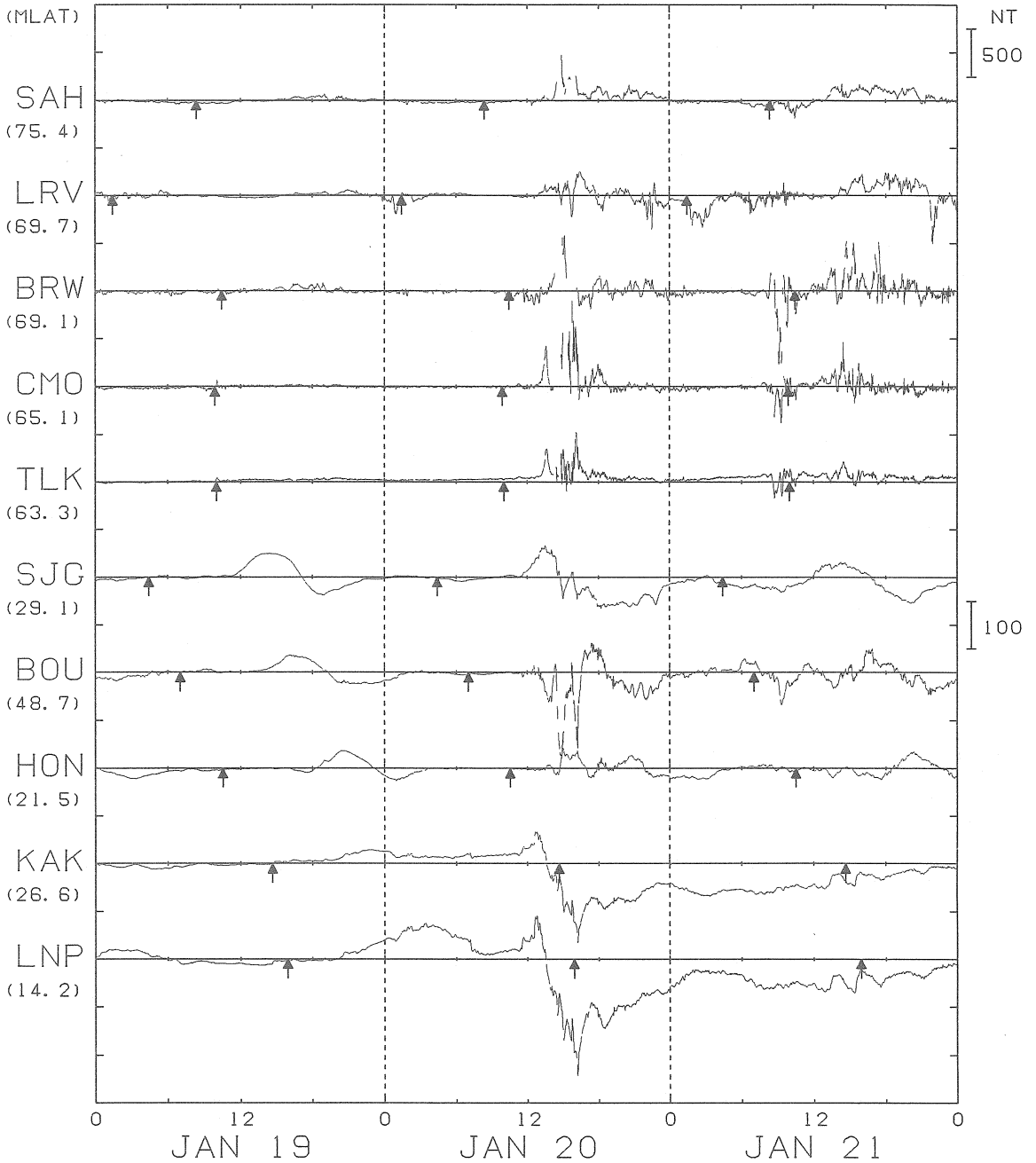
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

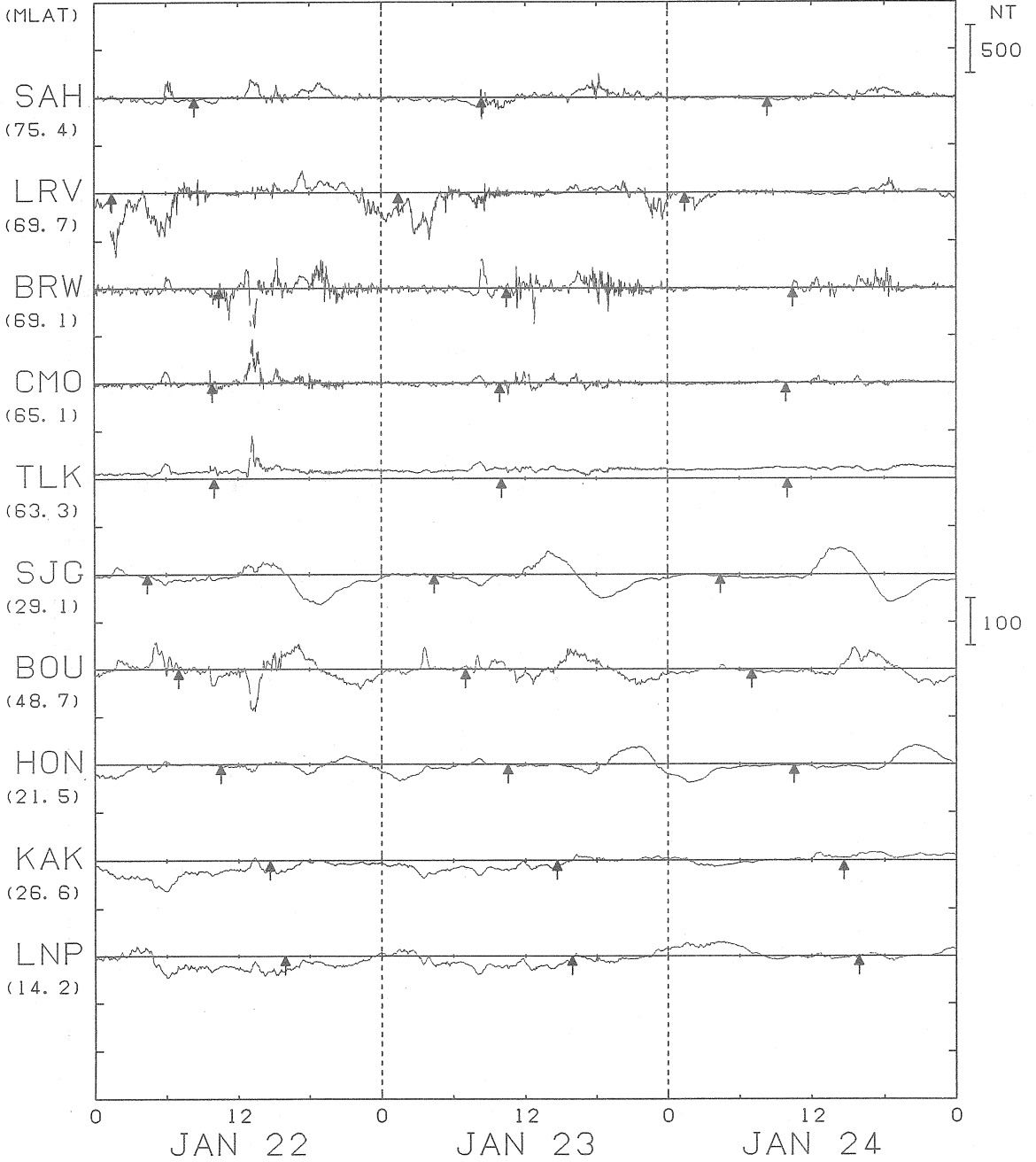
1989 H OR X-COMPONENT



* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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1989 H OR X-COMPONENT

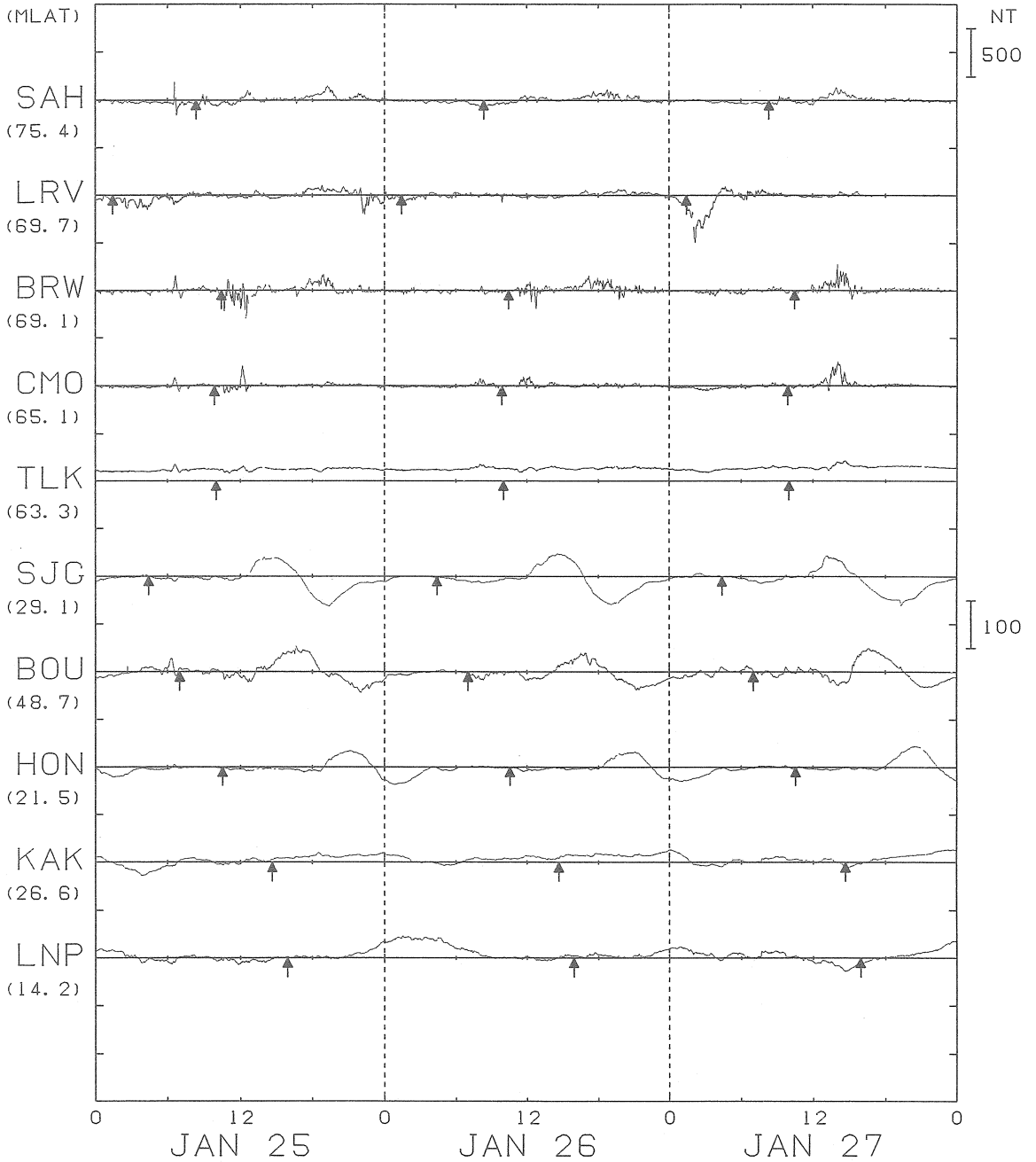
↑ : LOCAL MIDNIGHT



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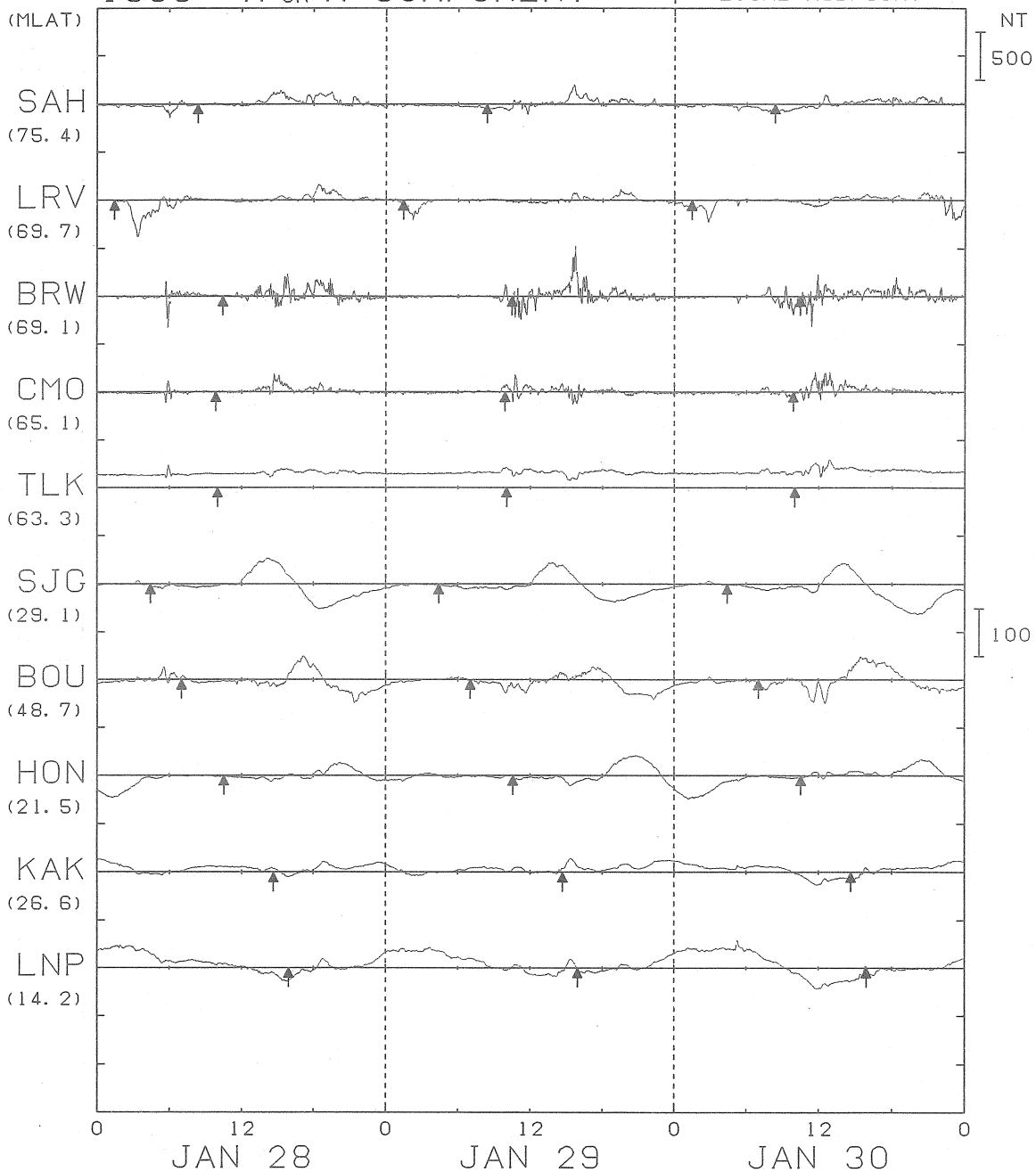
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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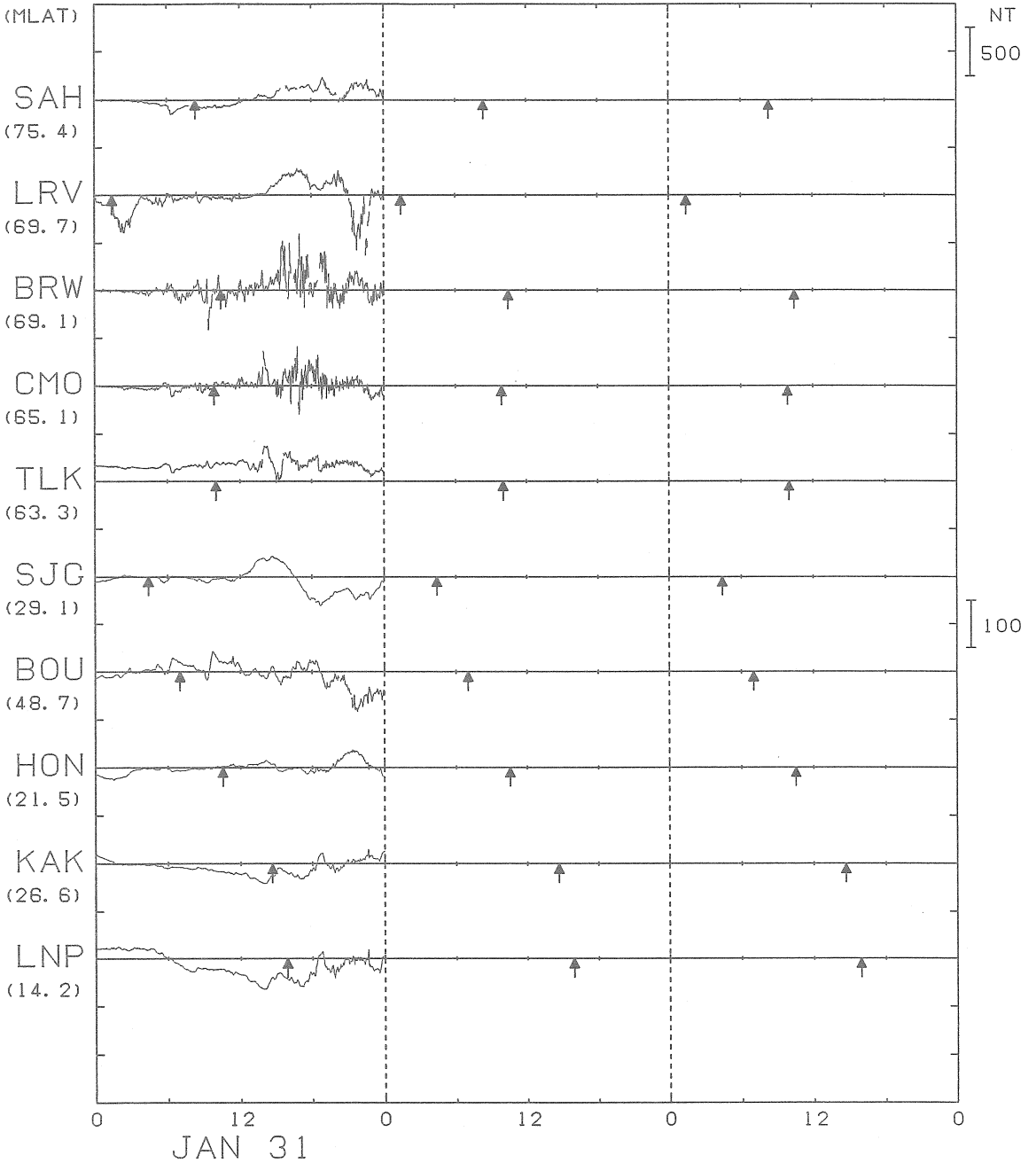
1989 H OR X-COMPONENT



* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



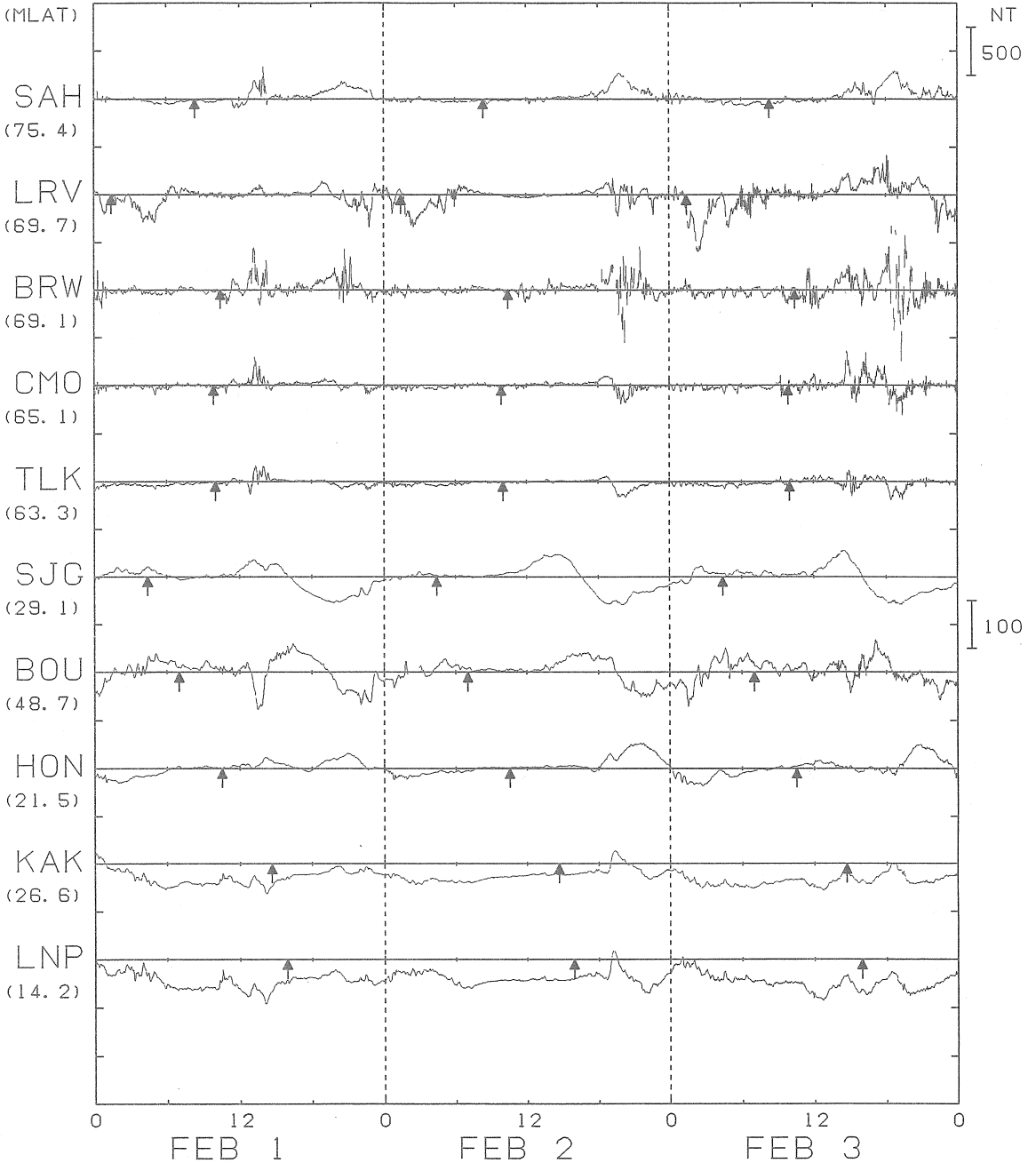
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- * PROMPT DATA INCLUDED
- * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

FEBRUARY 1989

(DAY 032 - 059)

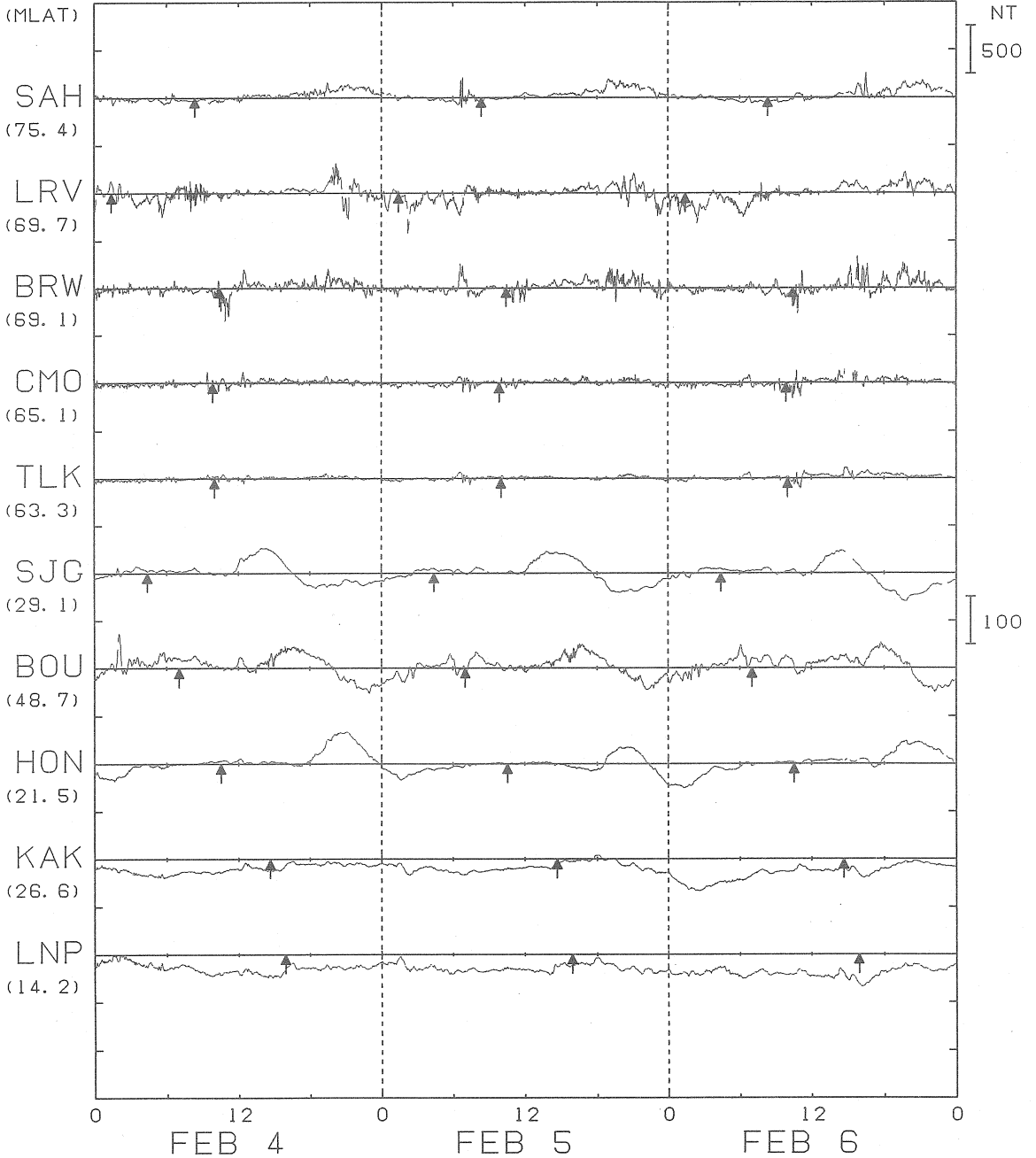
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
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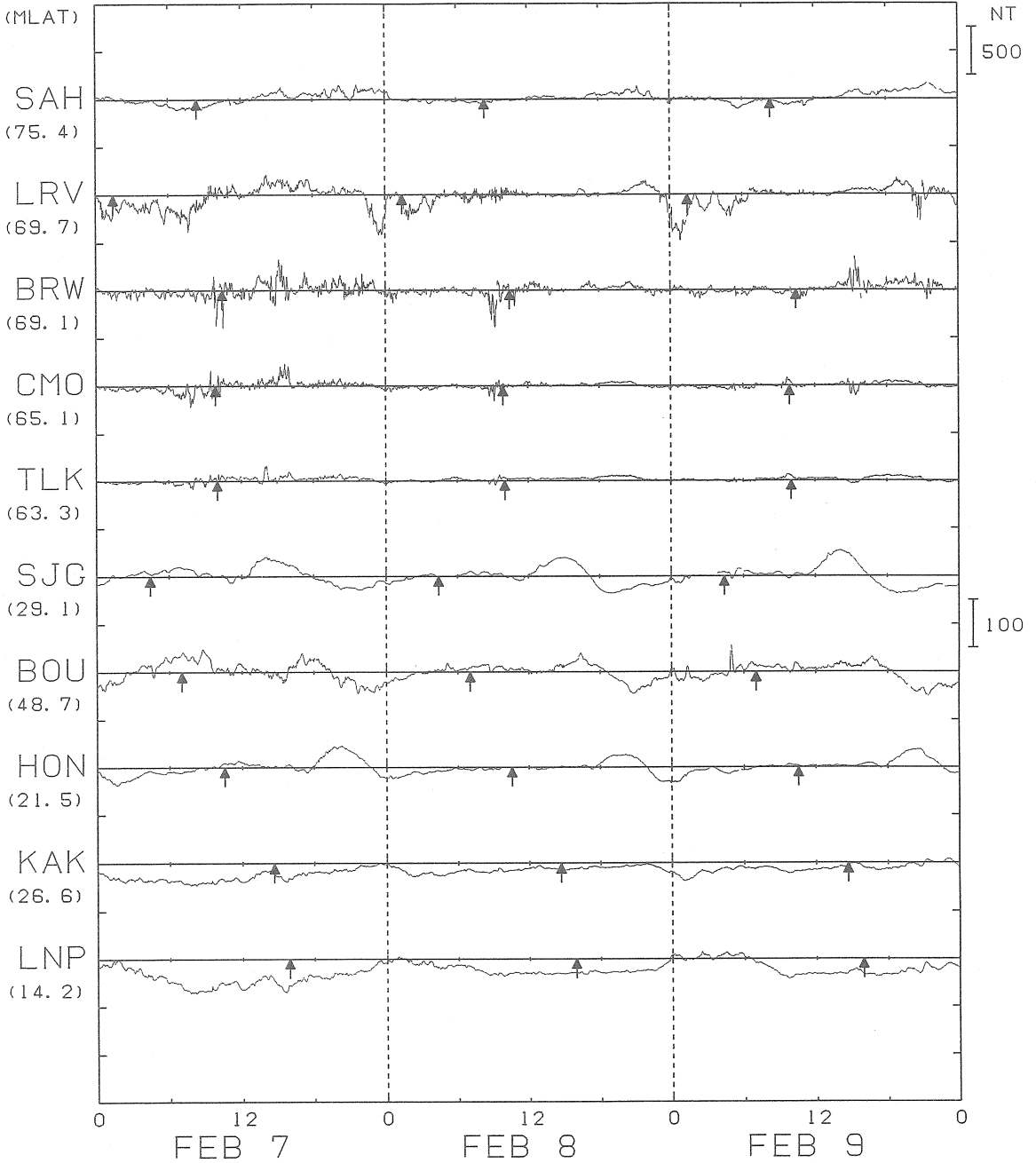
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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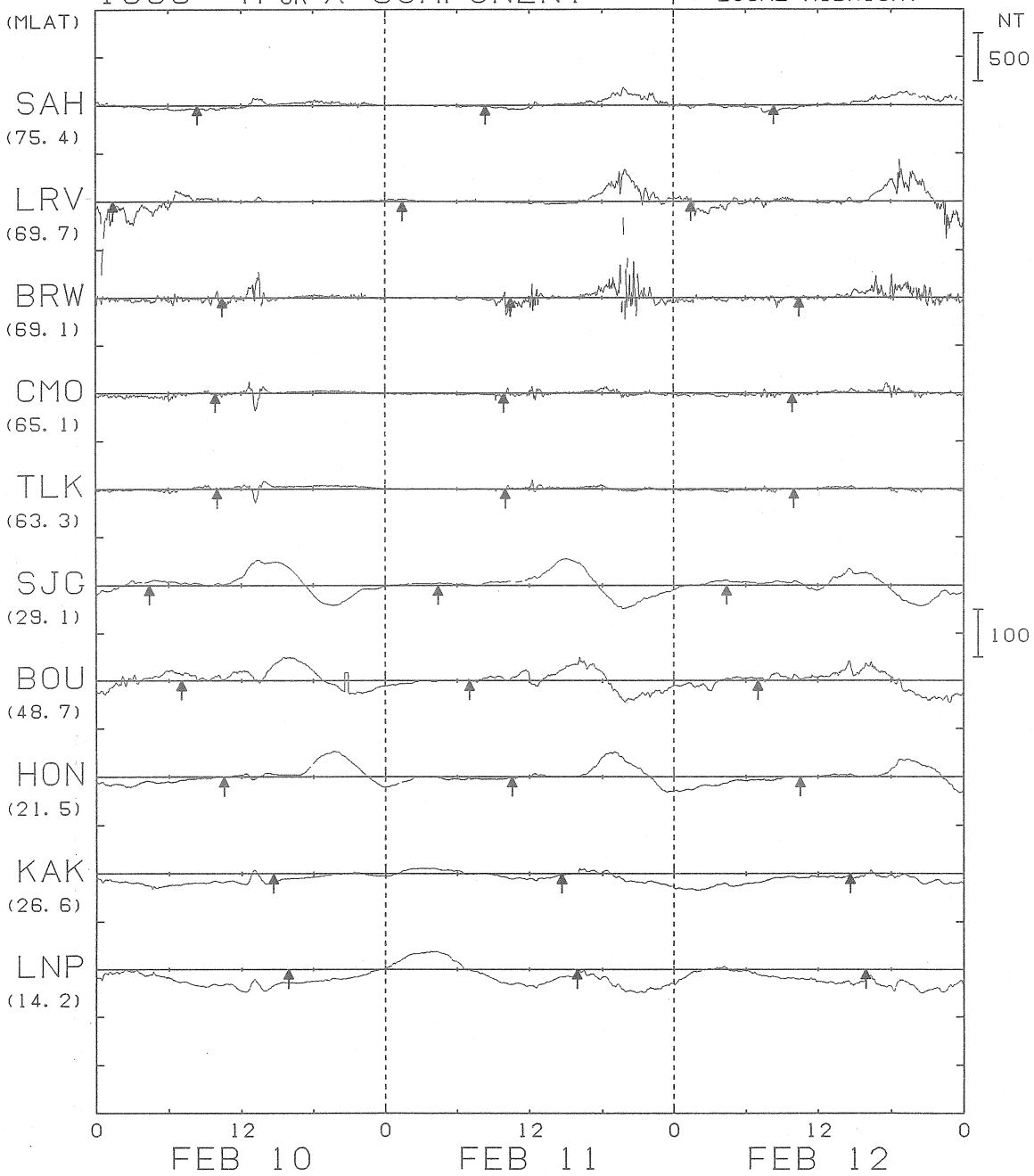
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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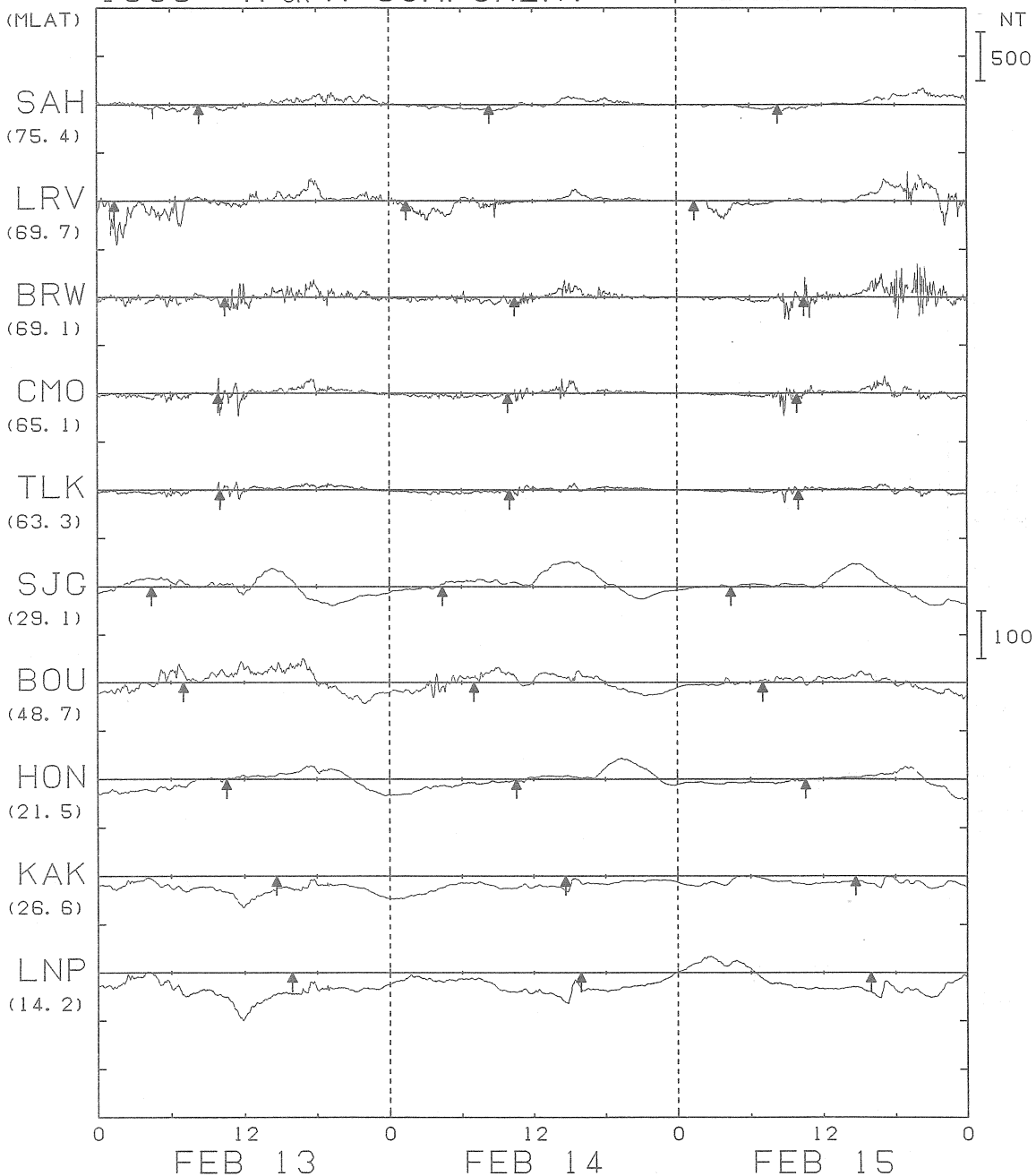
1989 H OR X-COMPONENT



* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
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1989 H OR X-COMPONENT

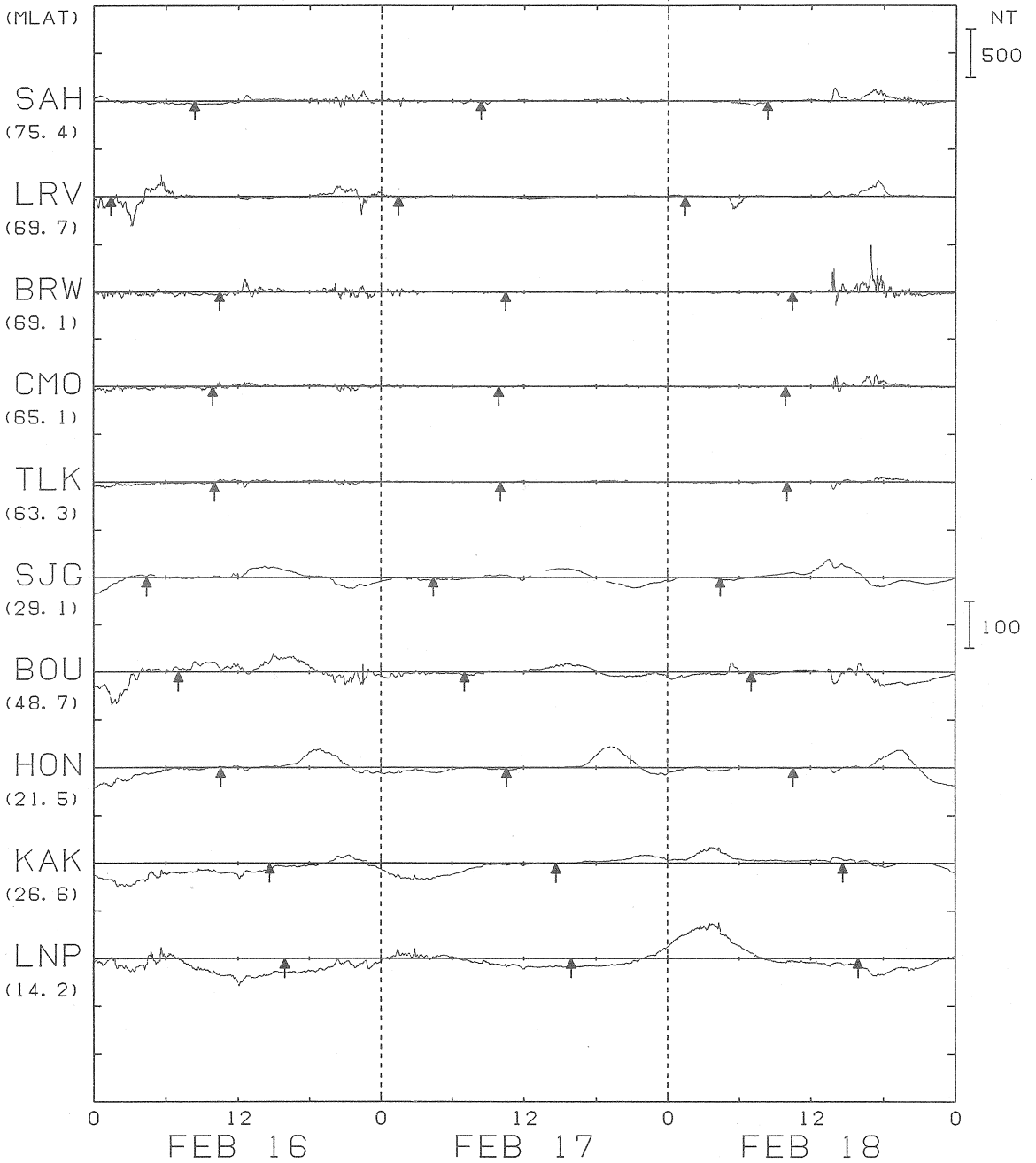
↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

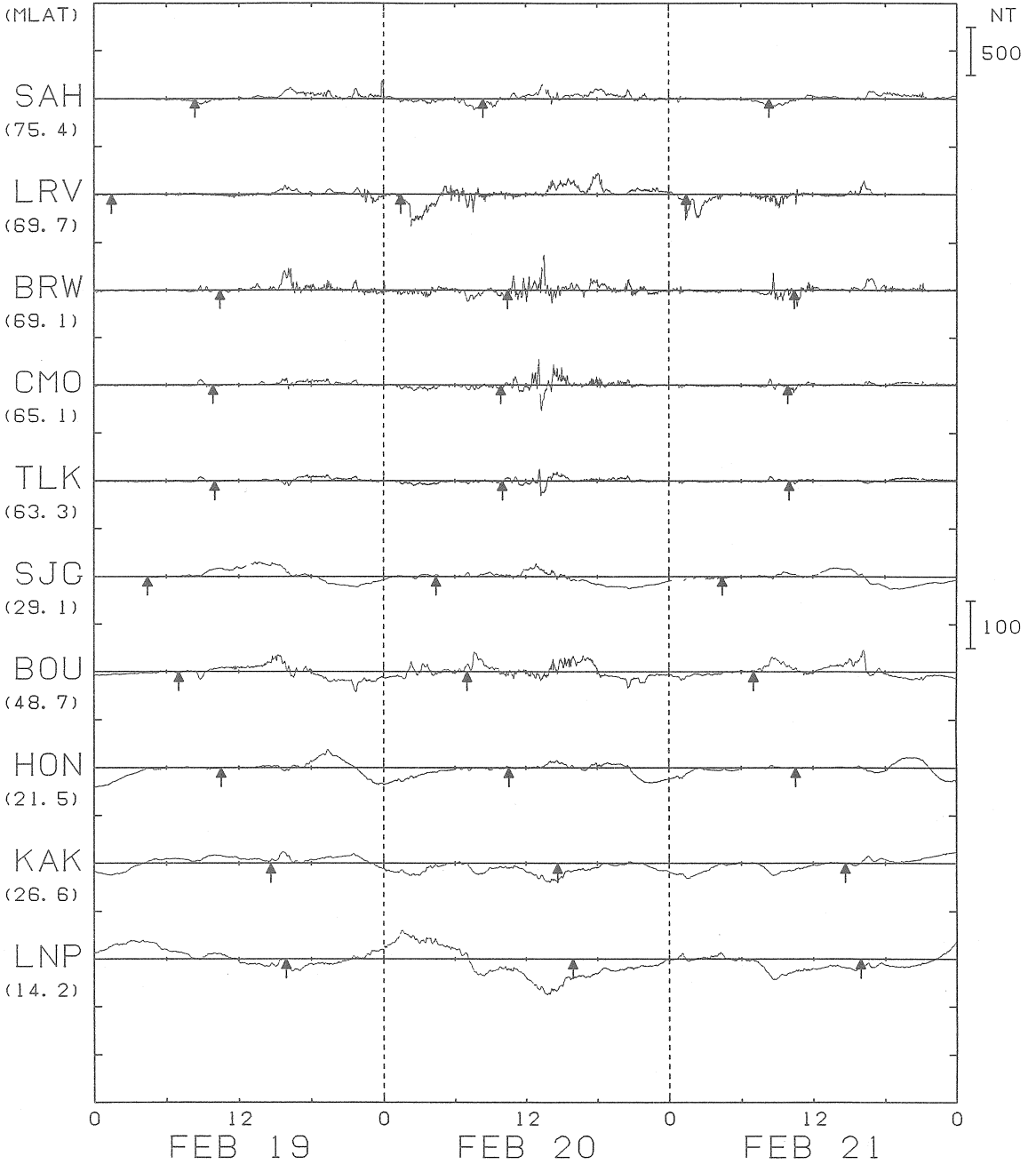
↑ : LOCAL MIDNIGHT



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1989 H OR X-COMPONENT

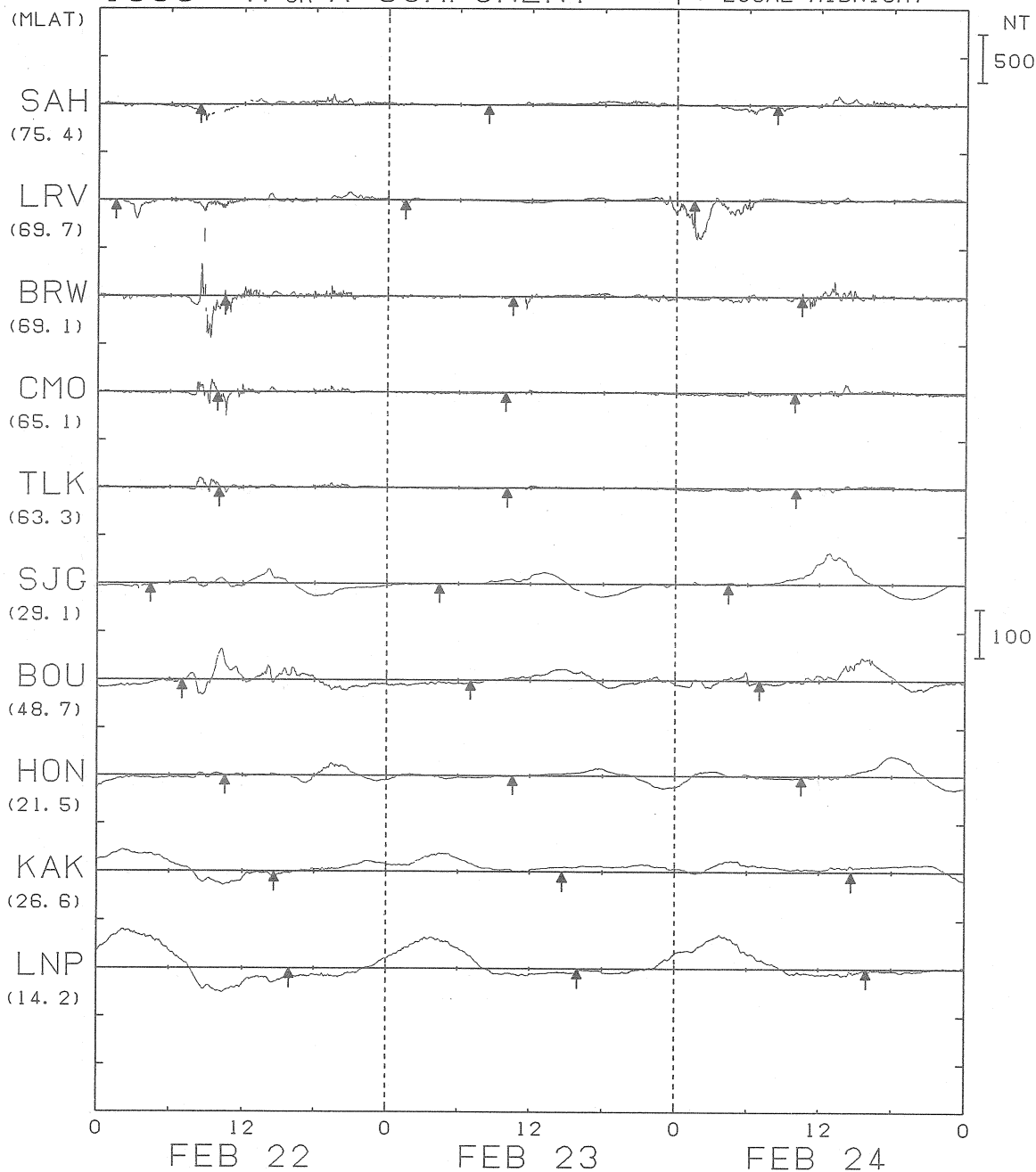
↑ : LOCAL MIDNIGHT



- * MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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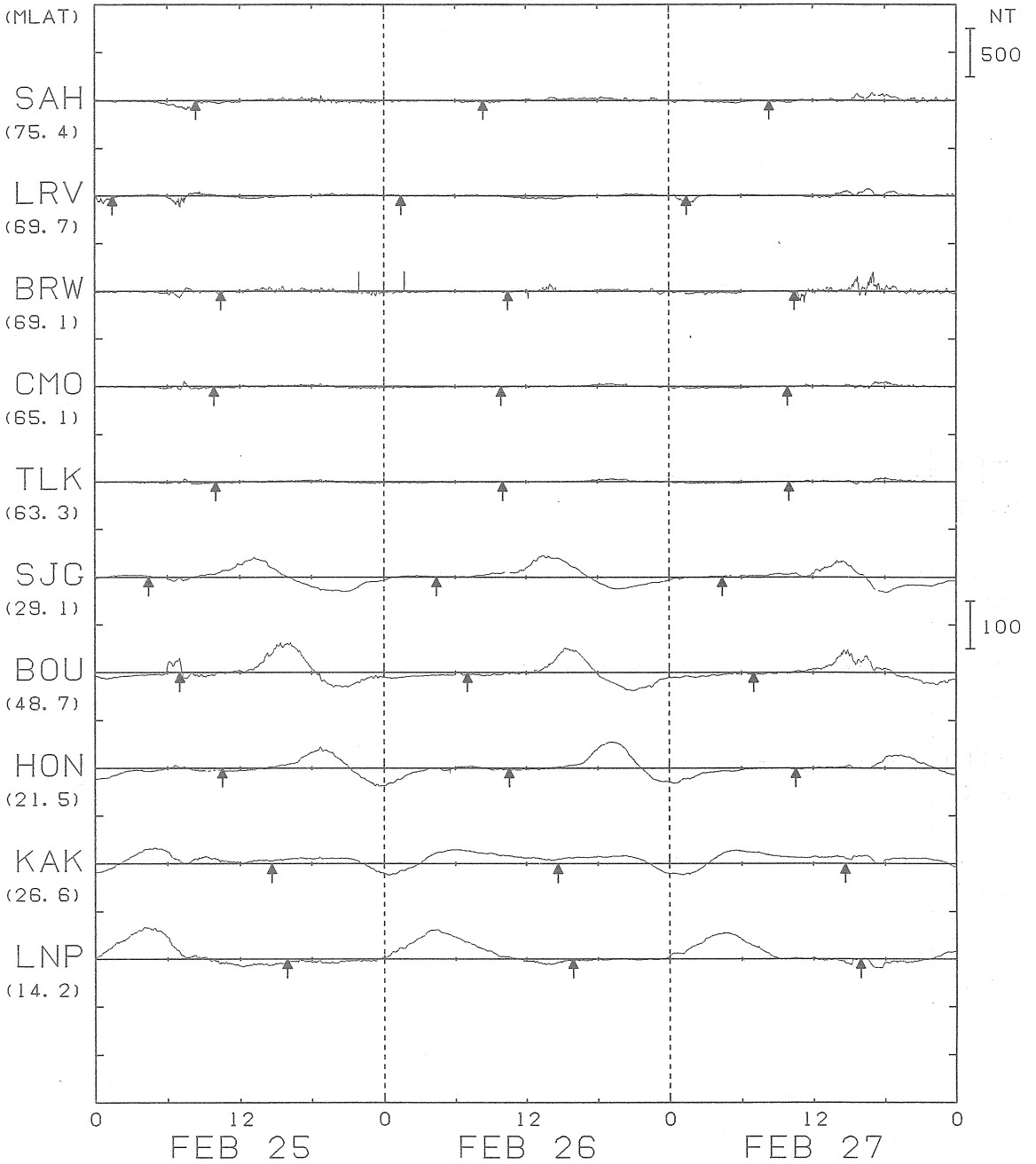
1989 H_{0R} X-COMPONENT

↑ : LOCAL MIDNIGHT



- * MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
- * PROMPT DATA INCLUDED
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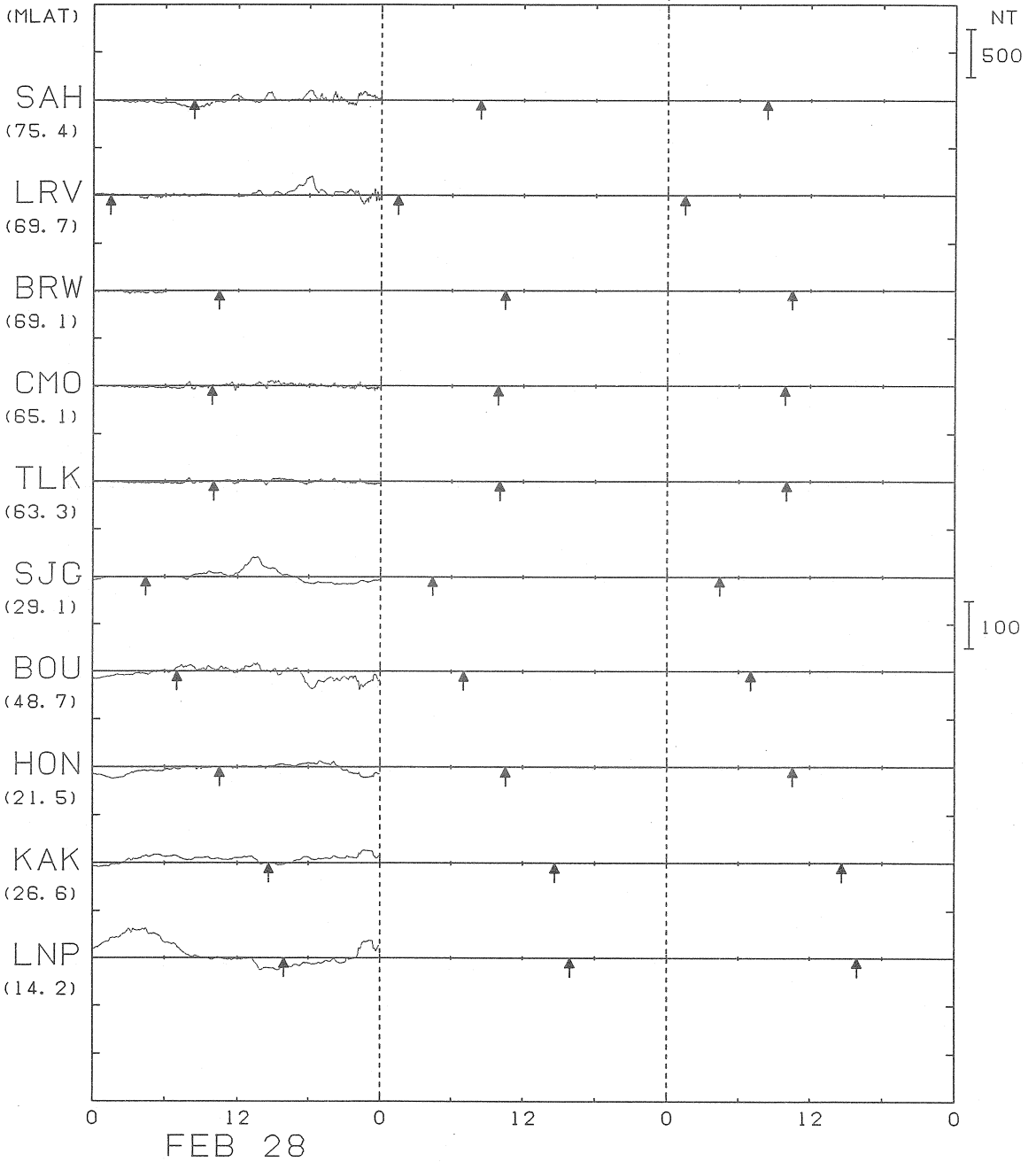
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
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1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



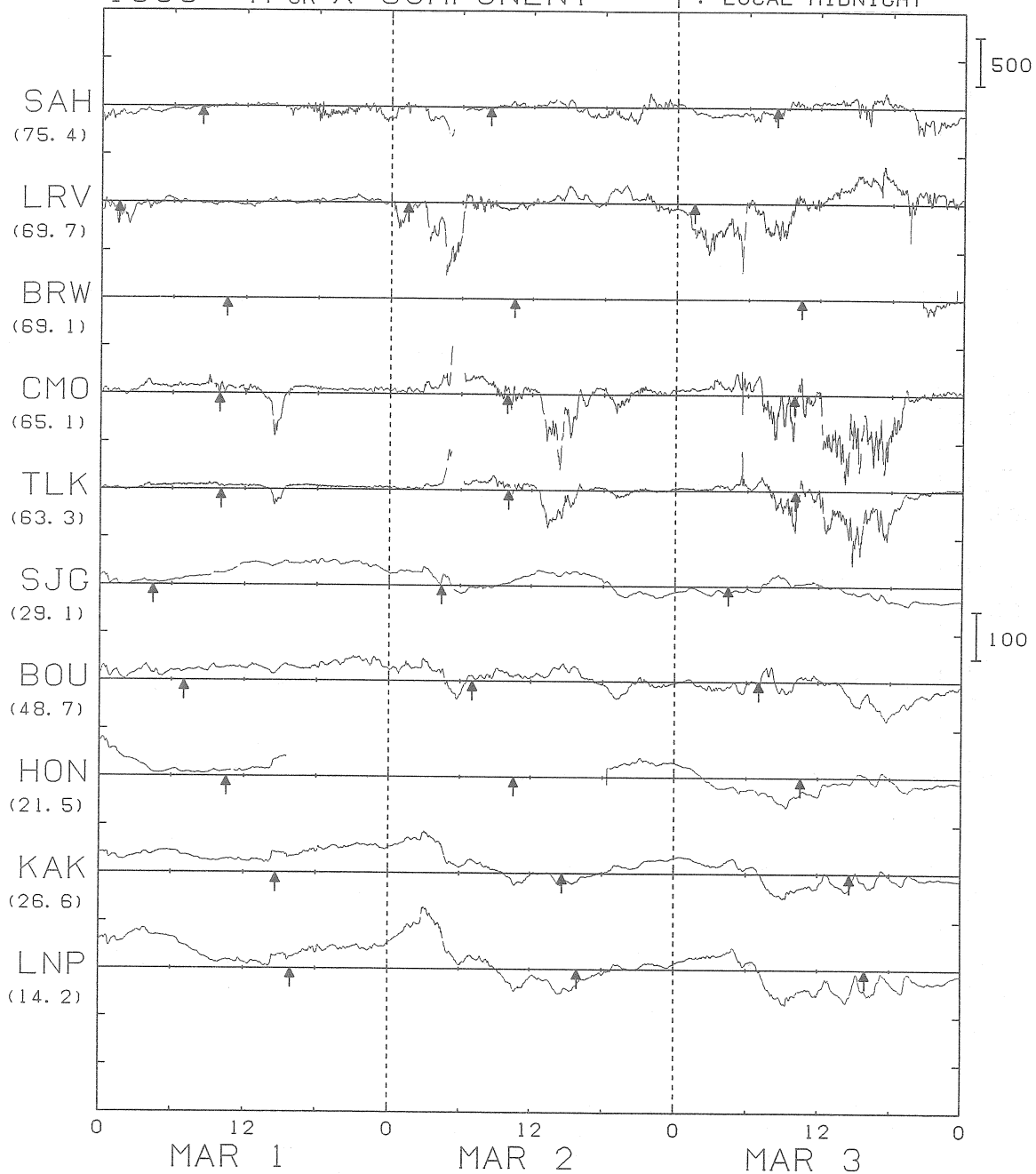
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MARCH 1989

(DAY 060 - 090)

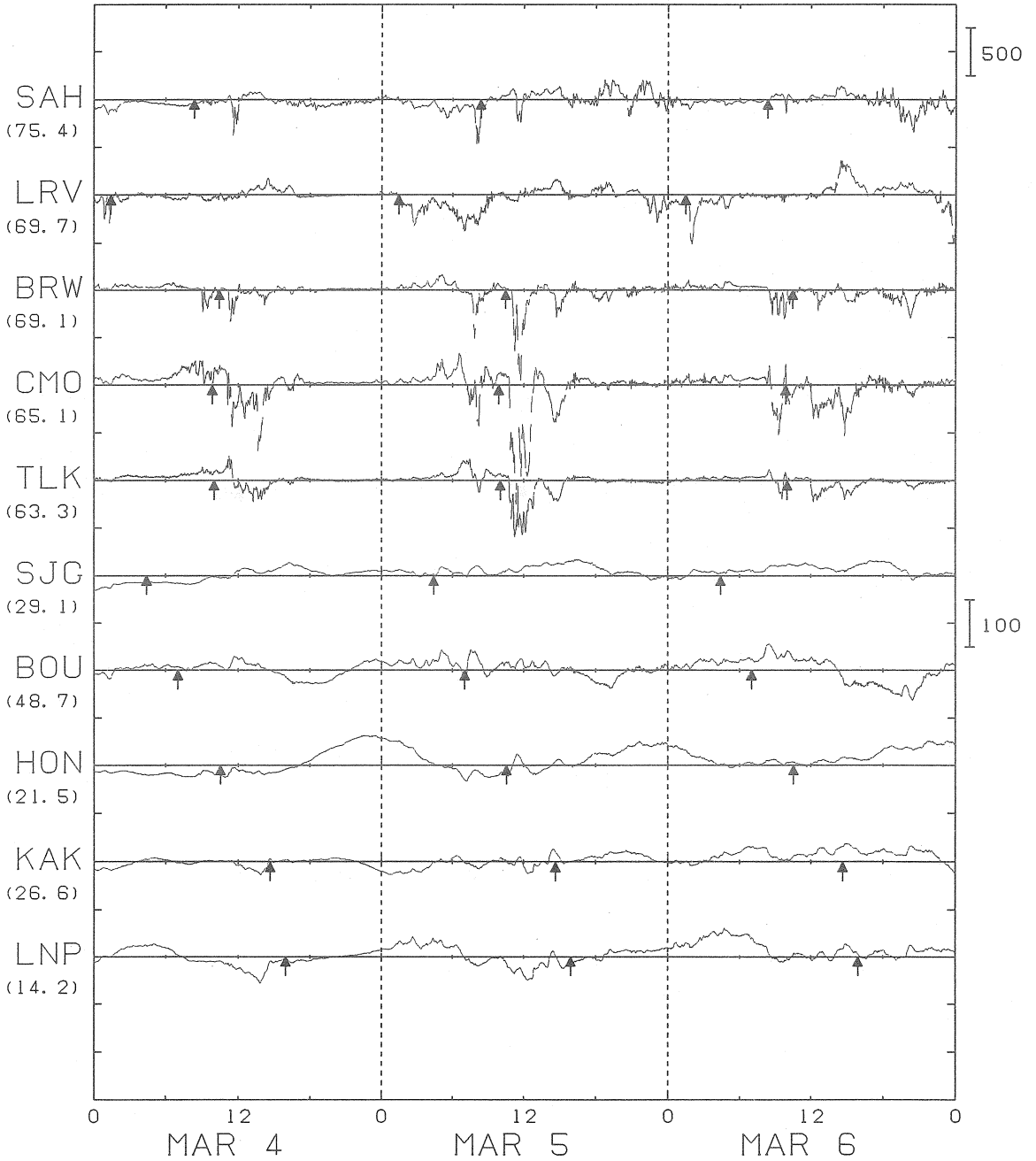
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



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

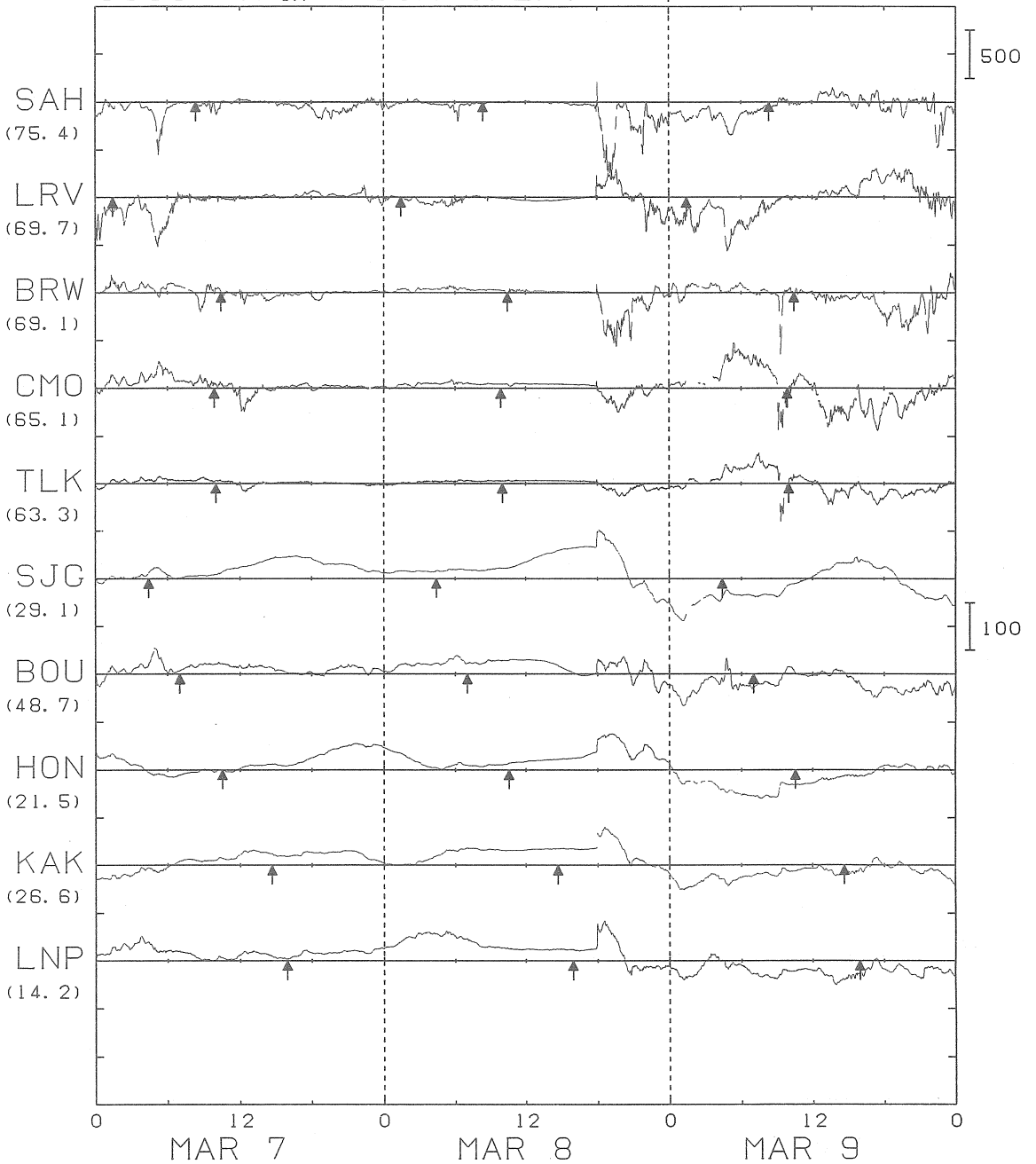
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
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1989 H OR X-COMPONENT

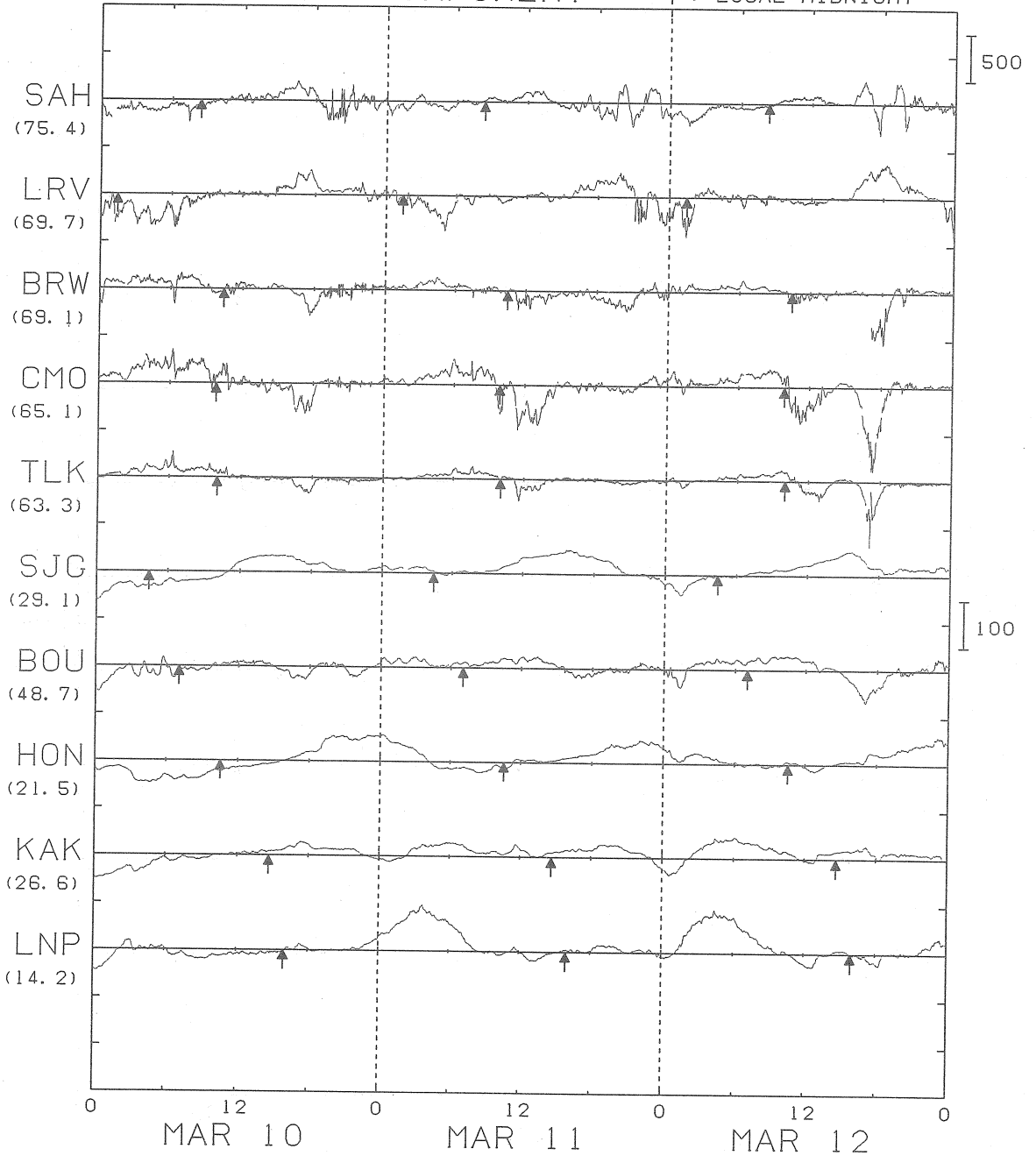
↑ : LOCAL MIDNIGHT



- * MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
- * PROMPT DATA INCLUDED
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1989 H OR X-COMPONENT

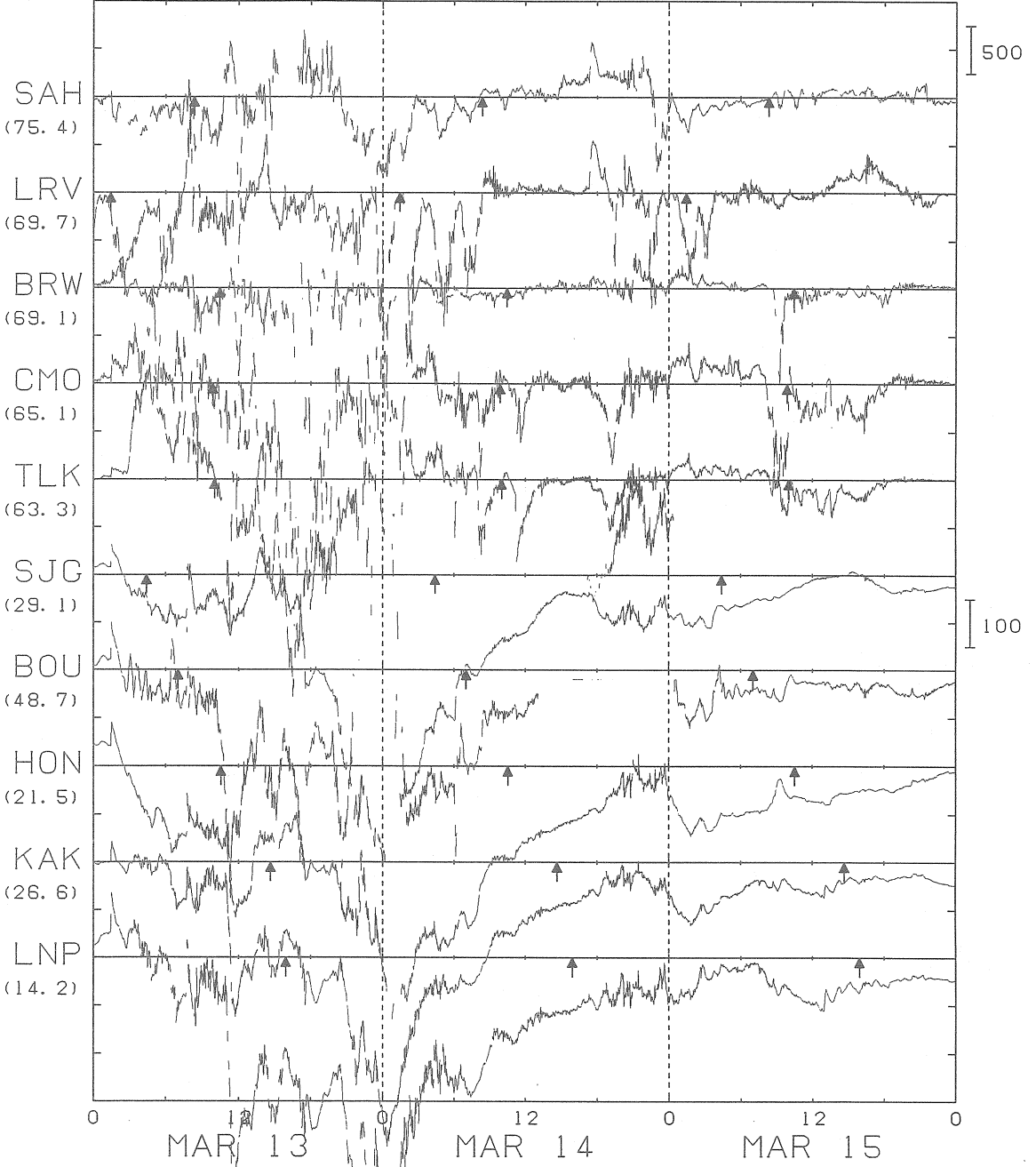
↑ : LOCAL MIDNIGHT



- * MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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1989 H OR X-COMPONENT

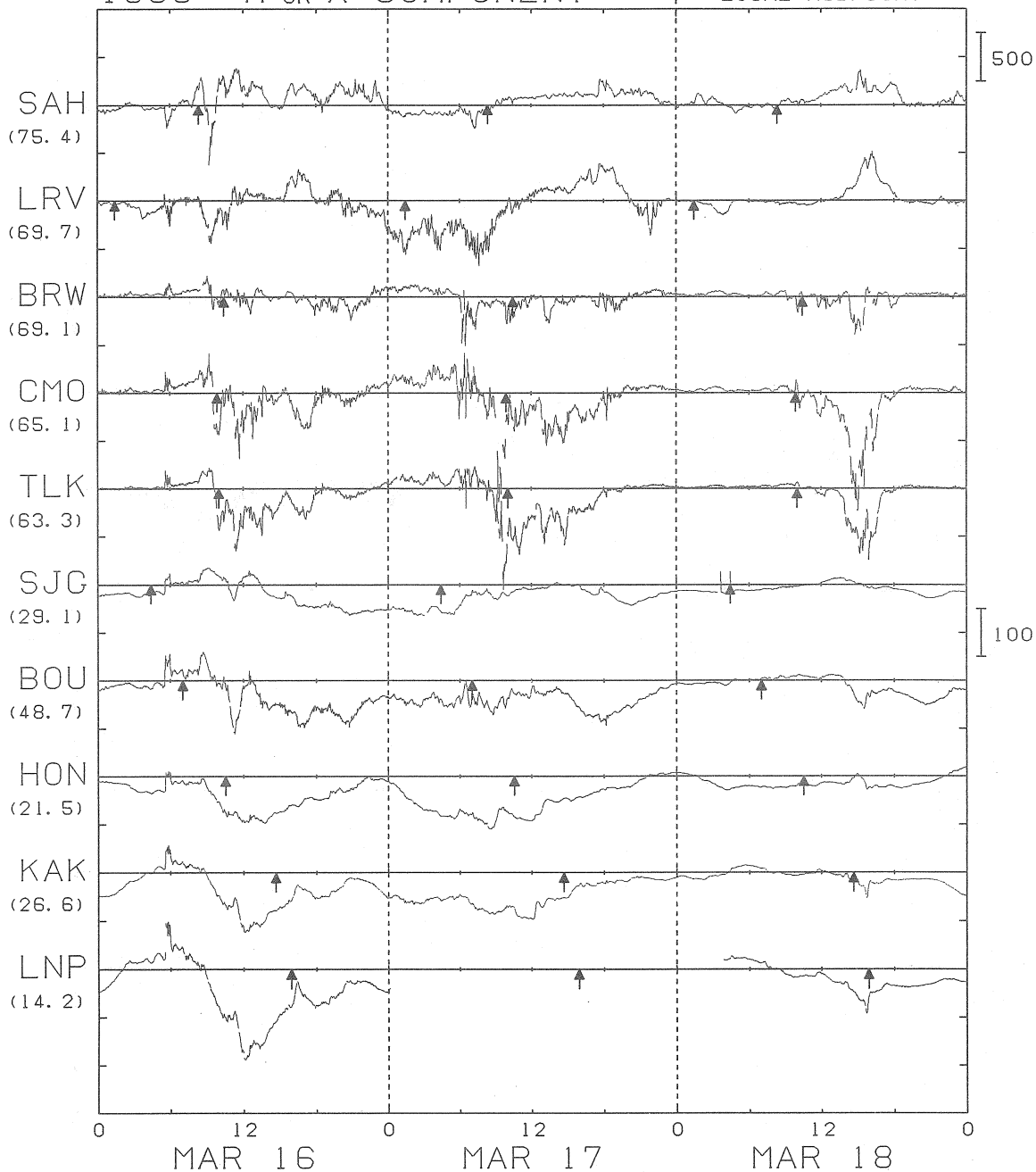
↑ : LOCAL MIDNIGHT



- * MONTHLY MEAN OF QUIET DAYS SUBTRACTED
- * PROMPT DATA INCLUDED
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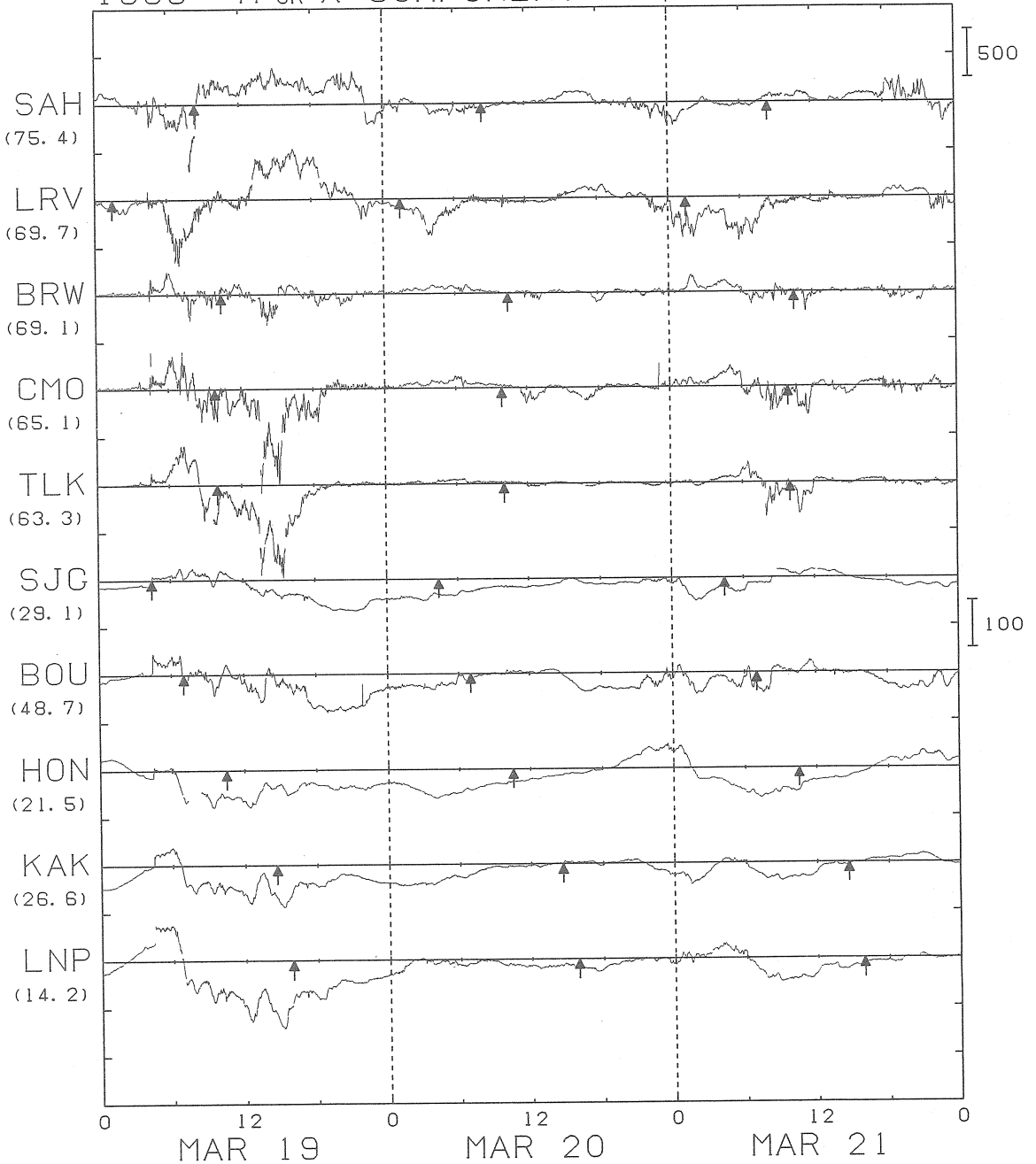
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



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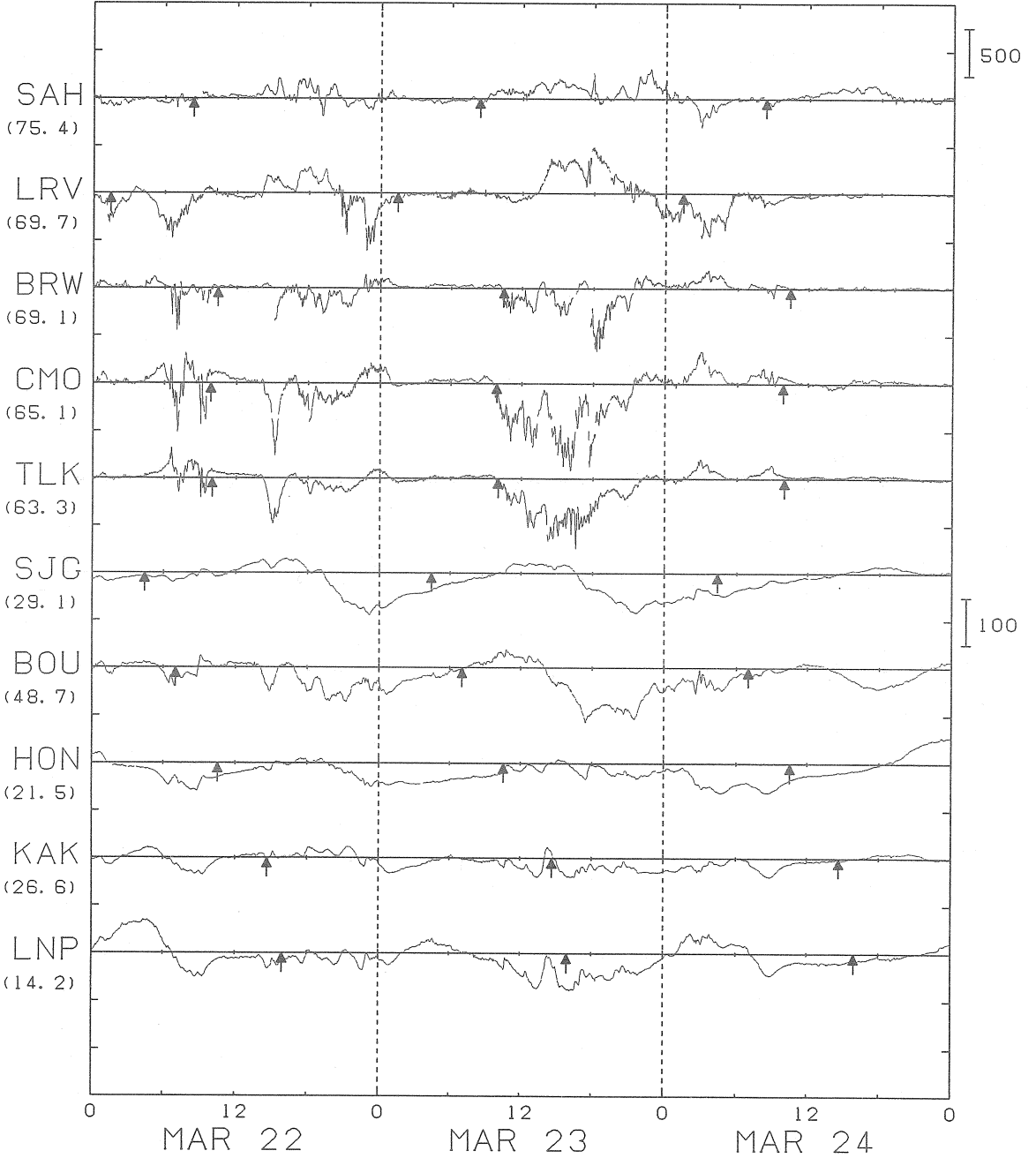
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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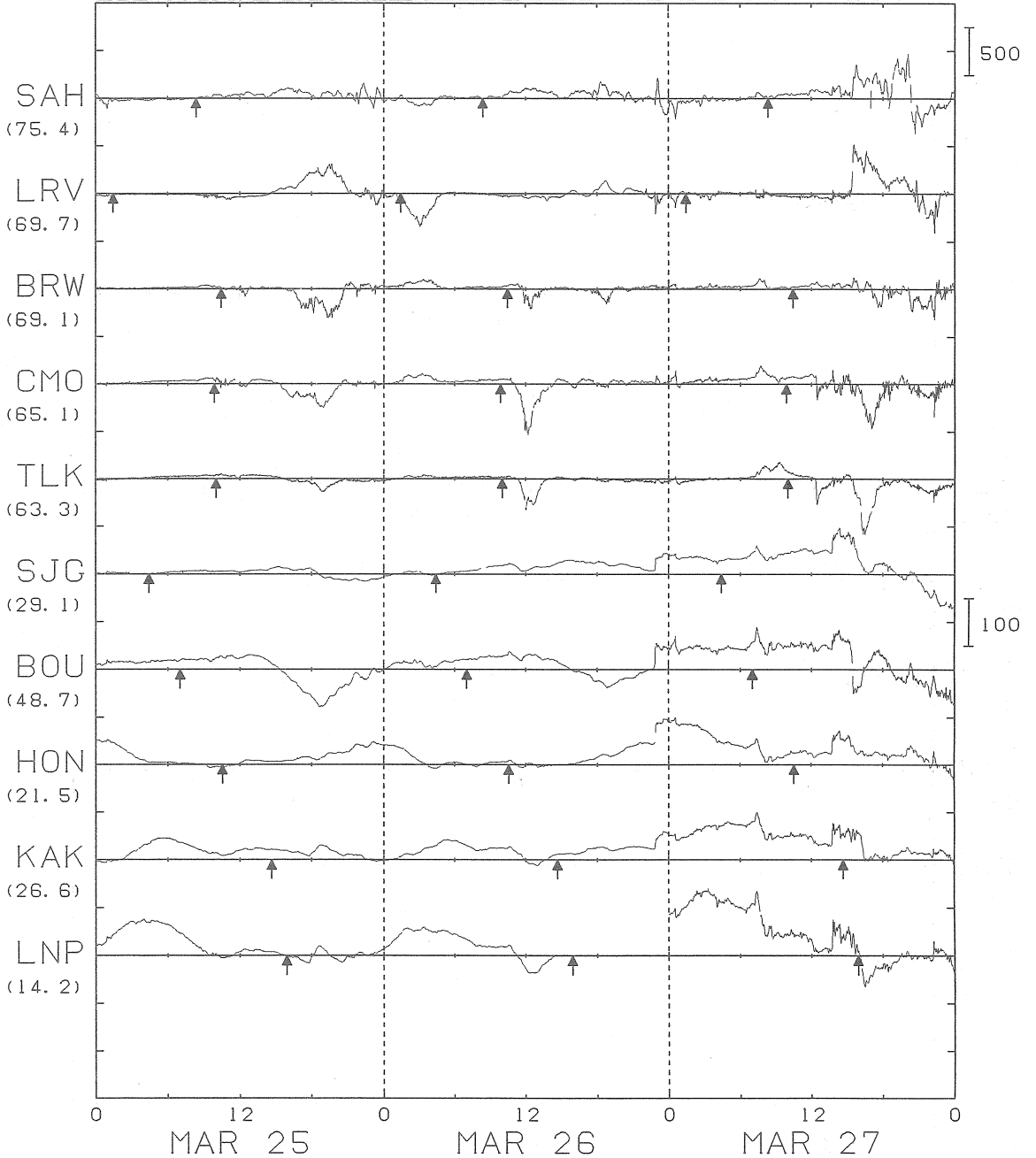
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



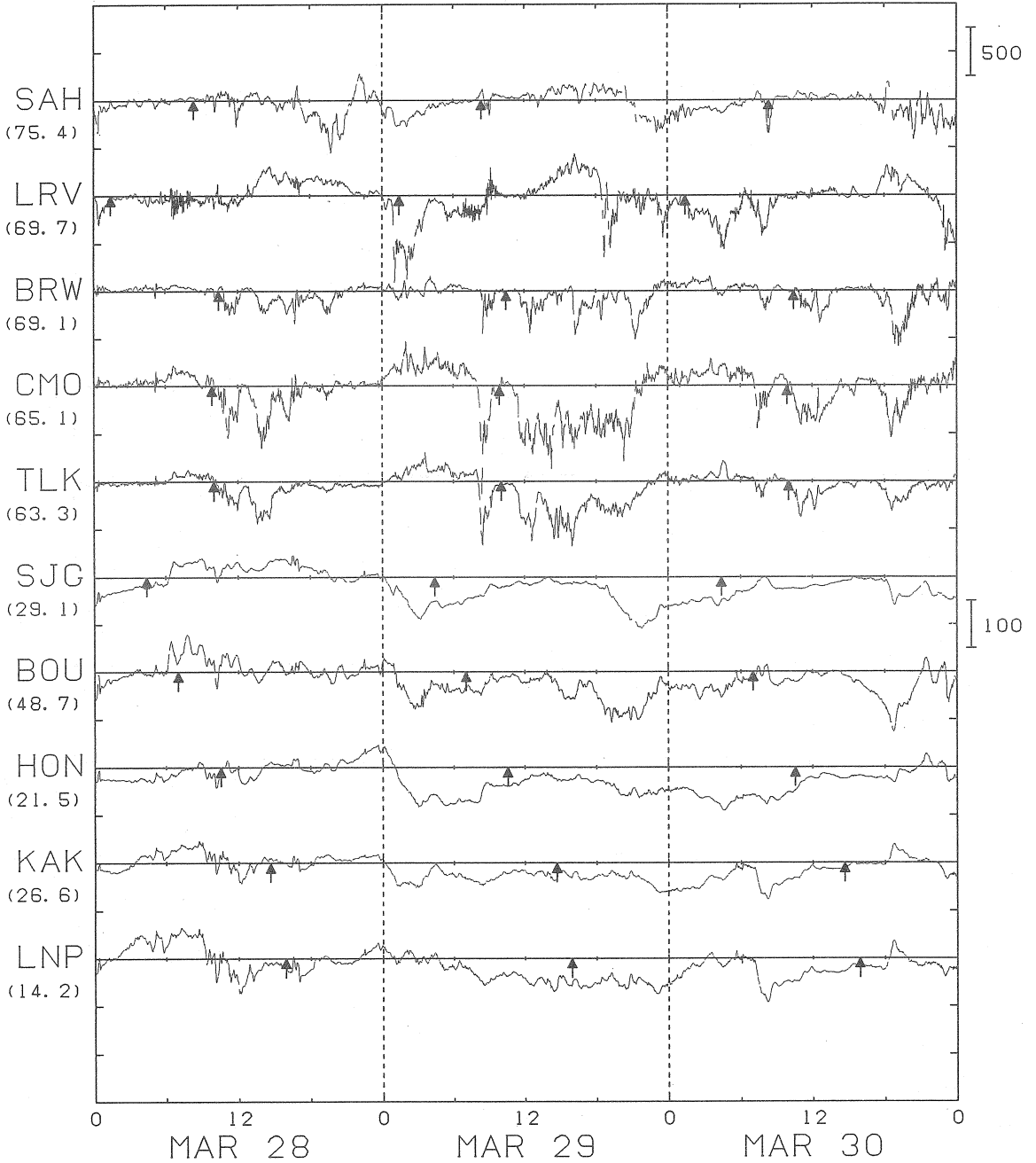
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1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



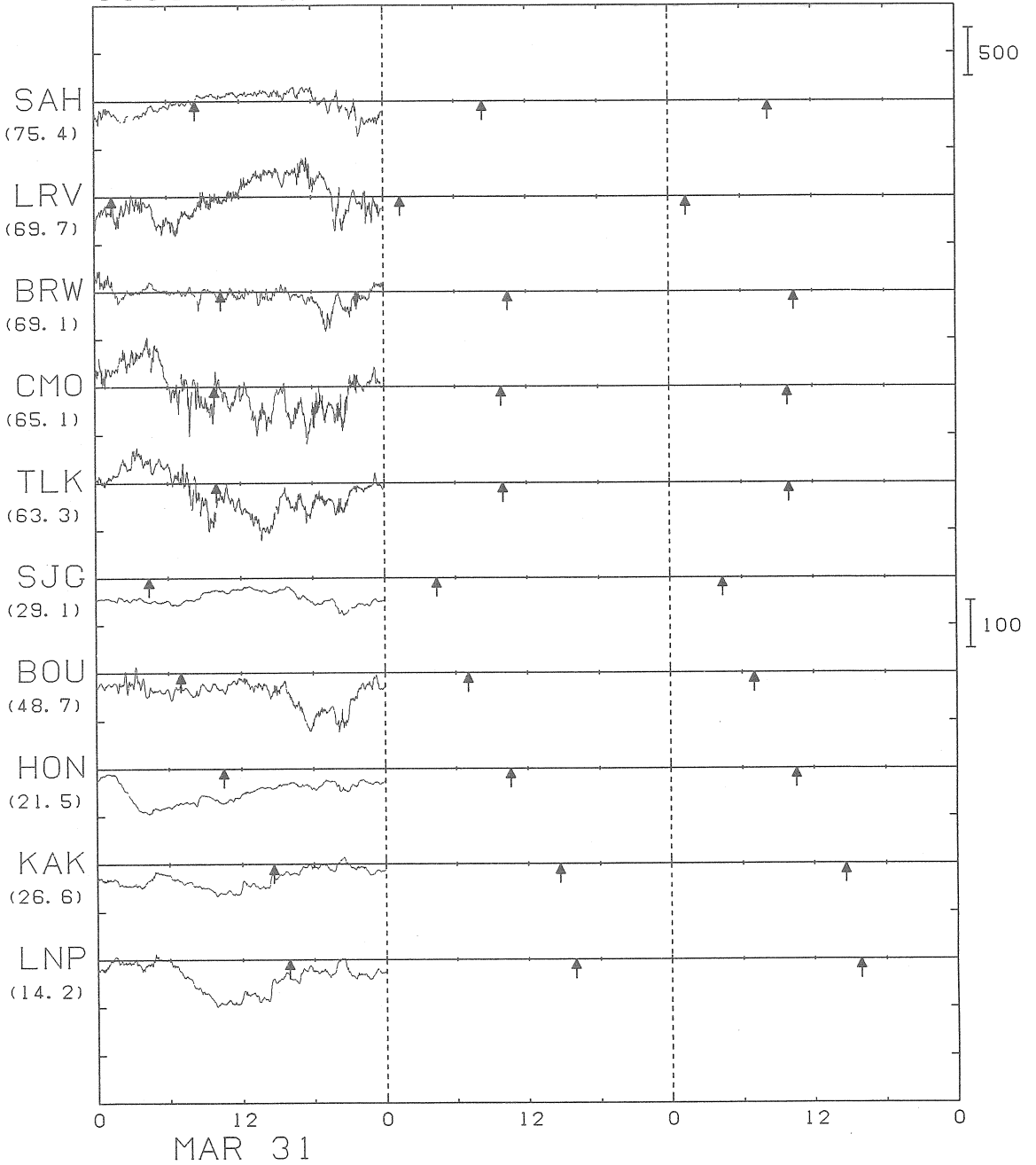
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1989 H_{OR} X-COMPONENT ↑ : LOCAL MIDNIGHT



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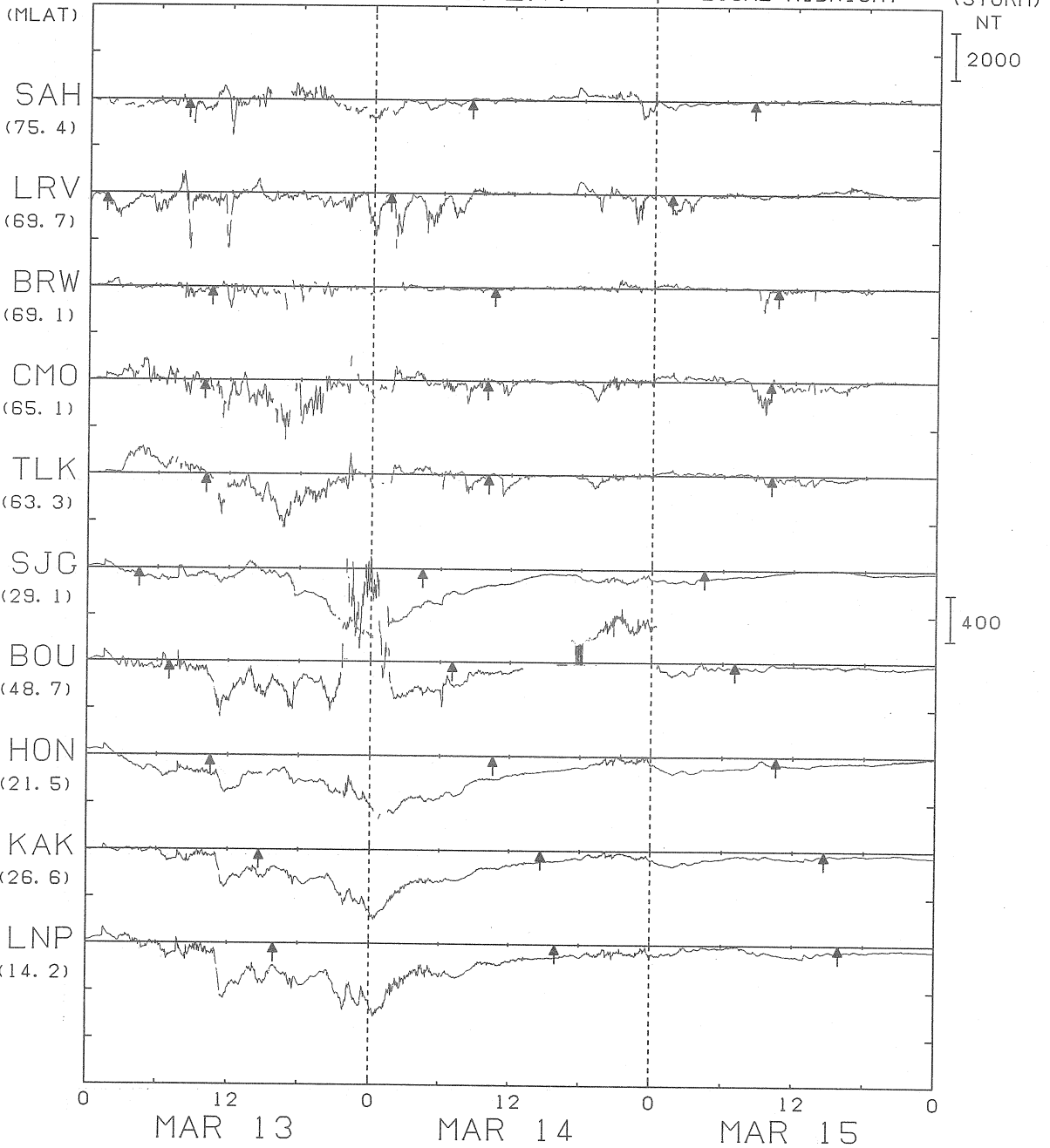
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



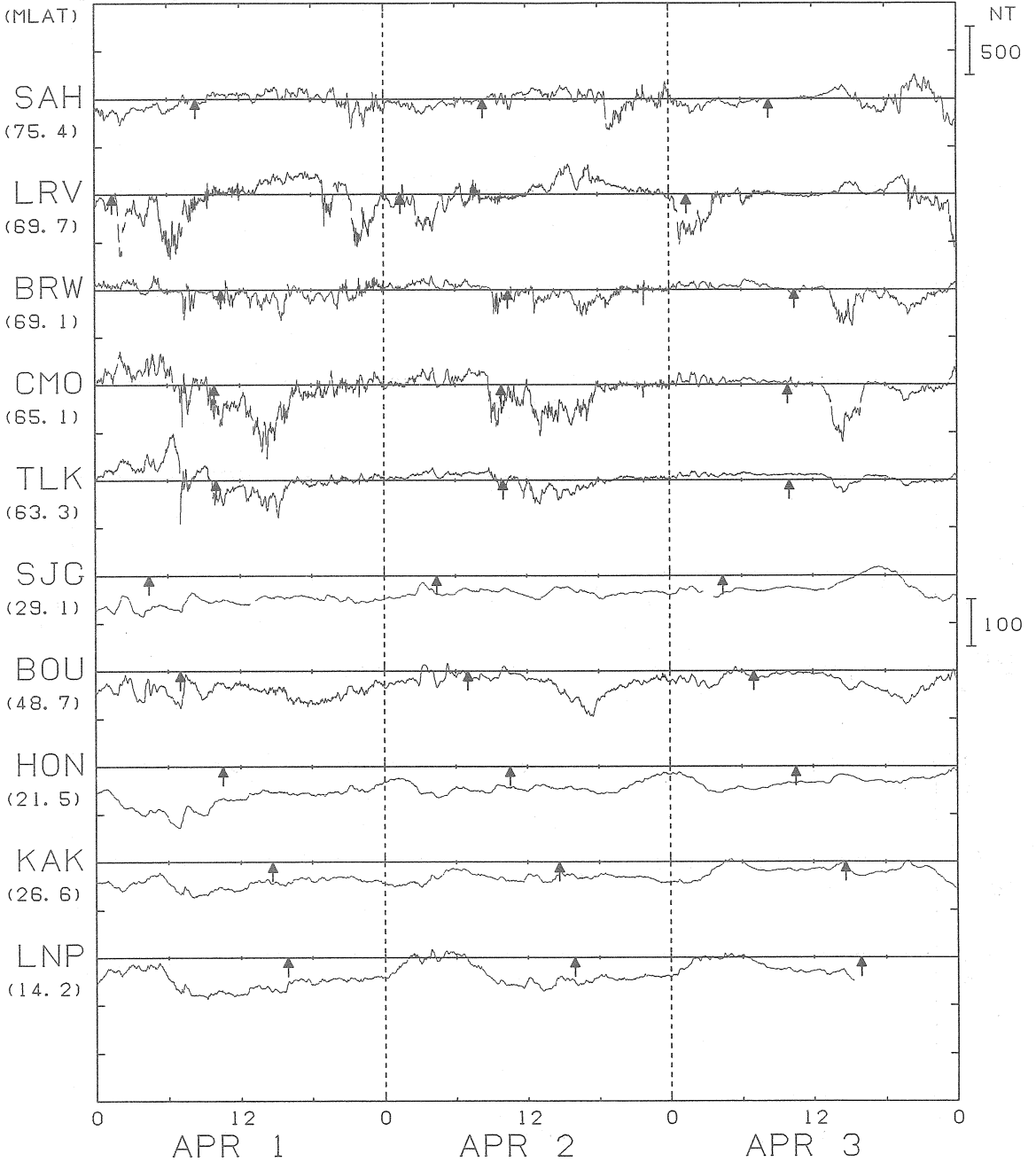
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APRIL 1989

(DAY 091 - 120)

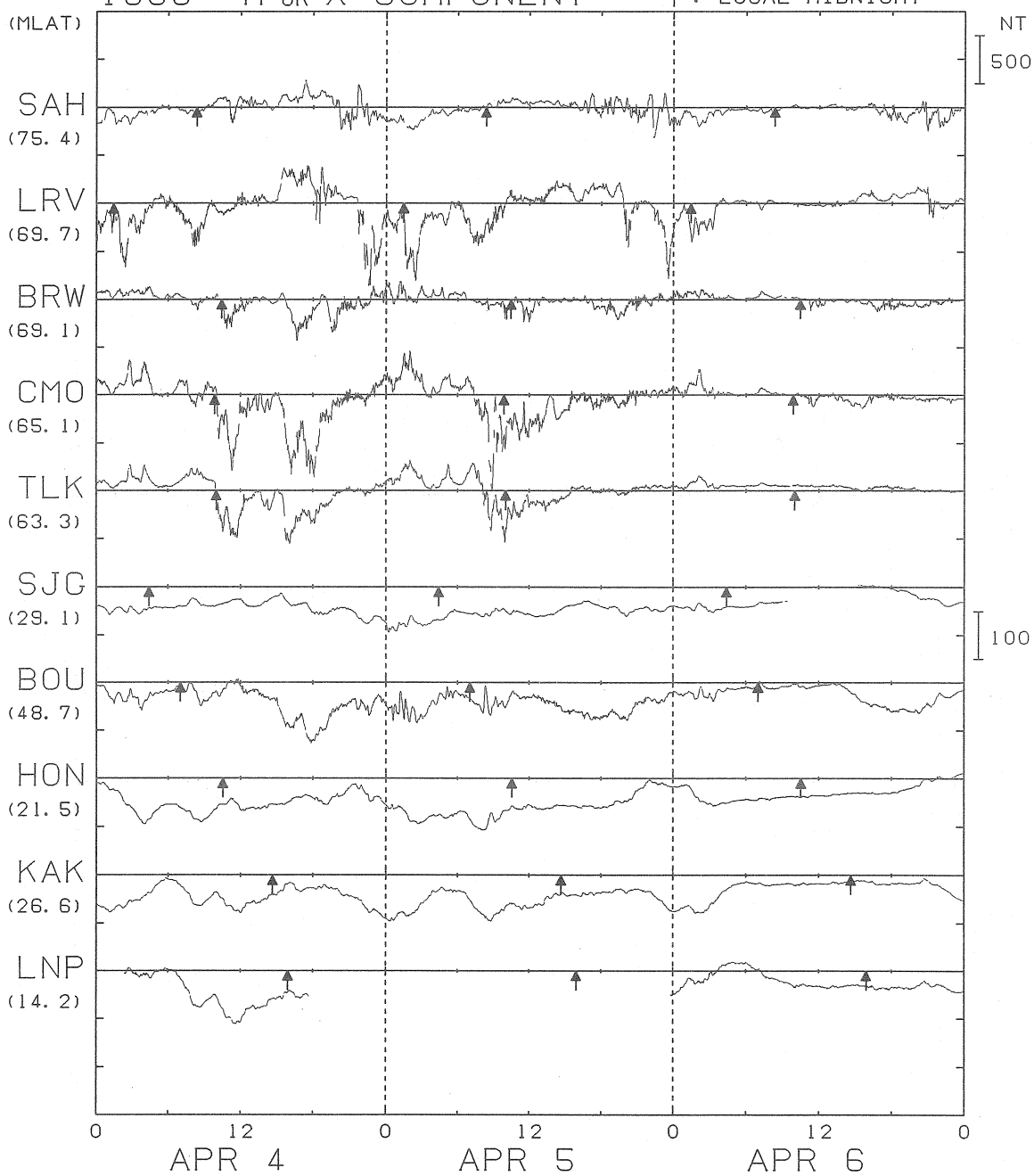
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



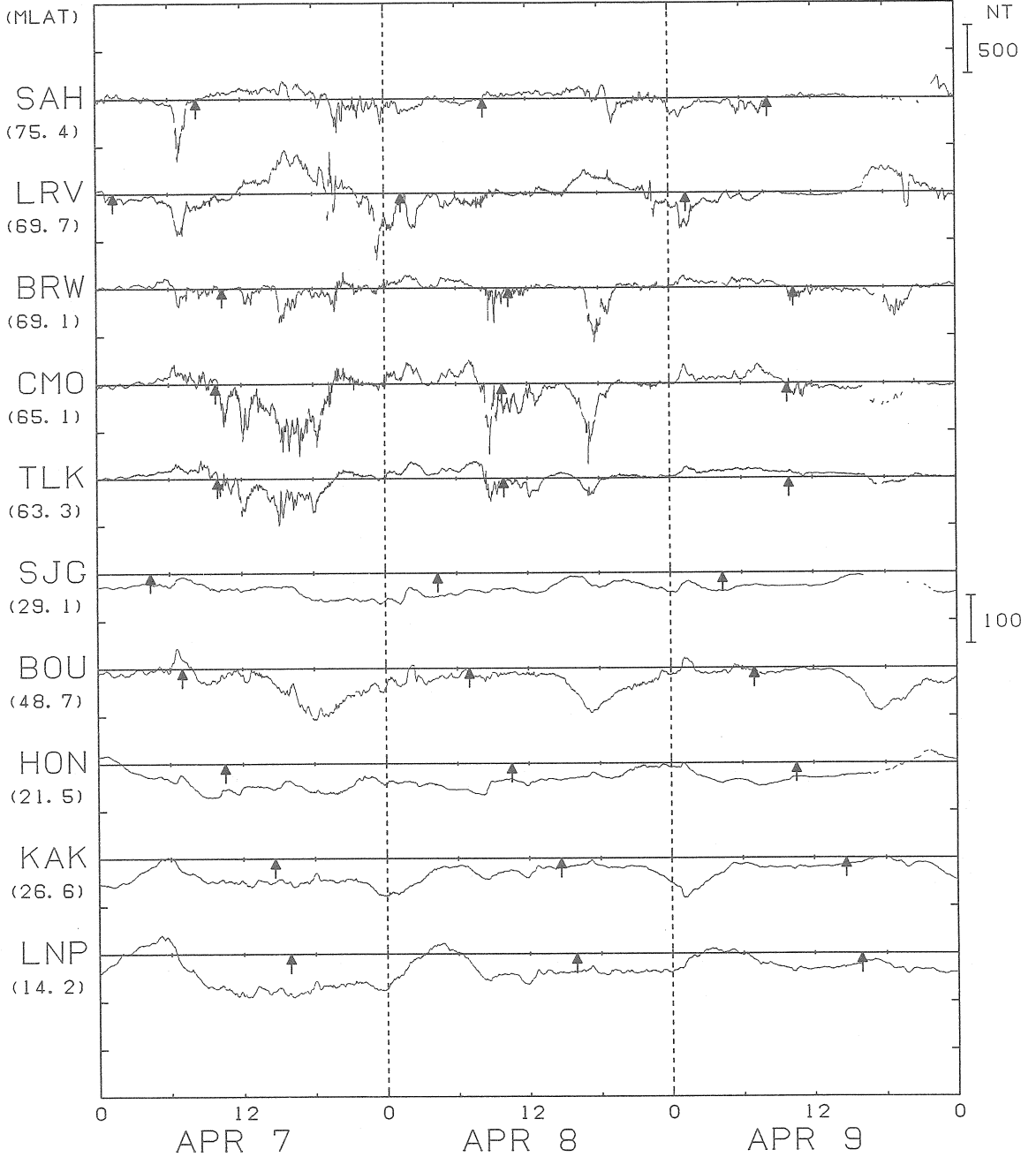
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1989 H OR X-COMPONENT



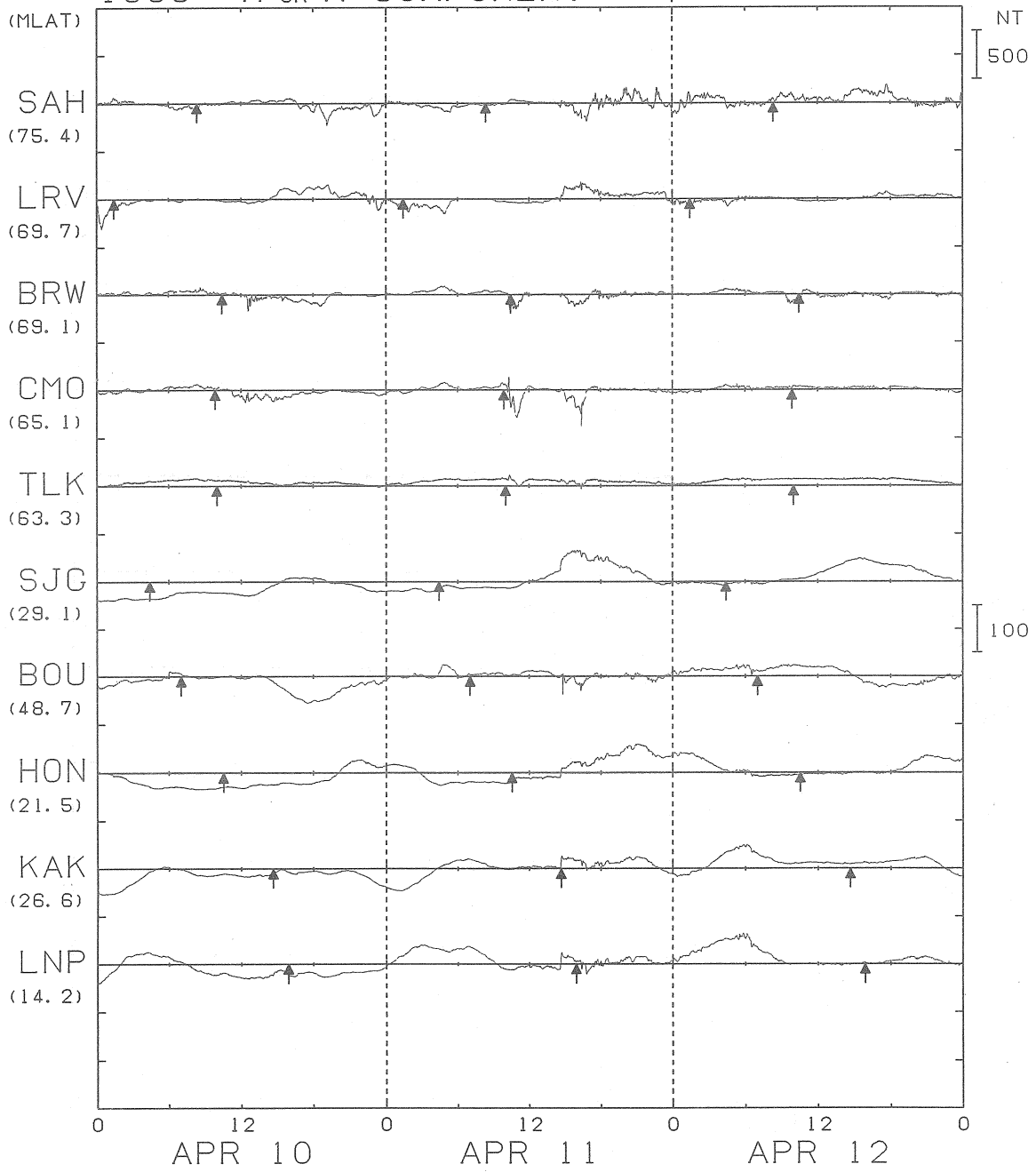
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1989 H_{OR} X-COMPONENT



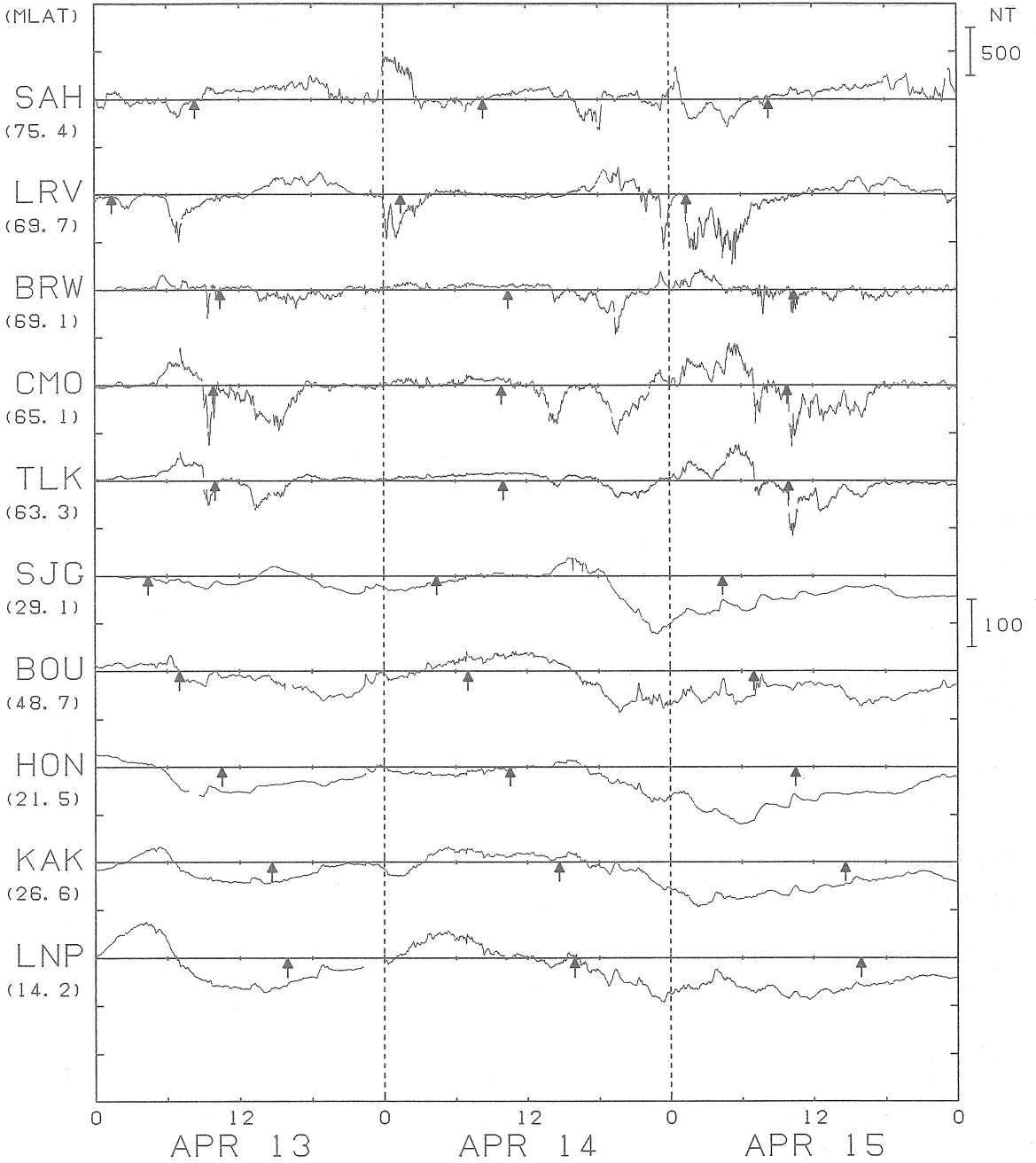
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1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT

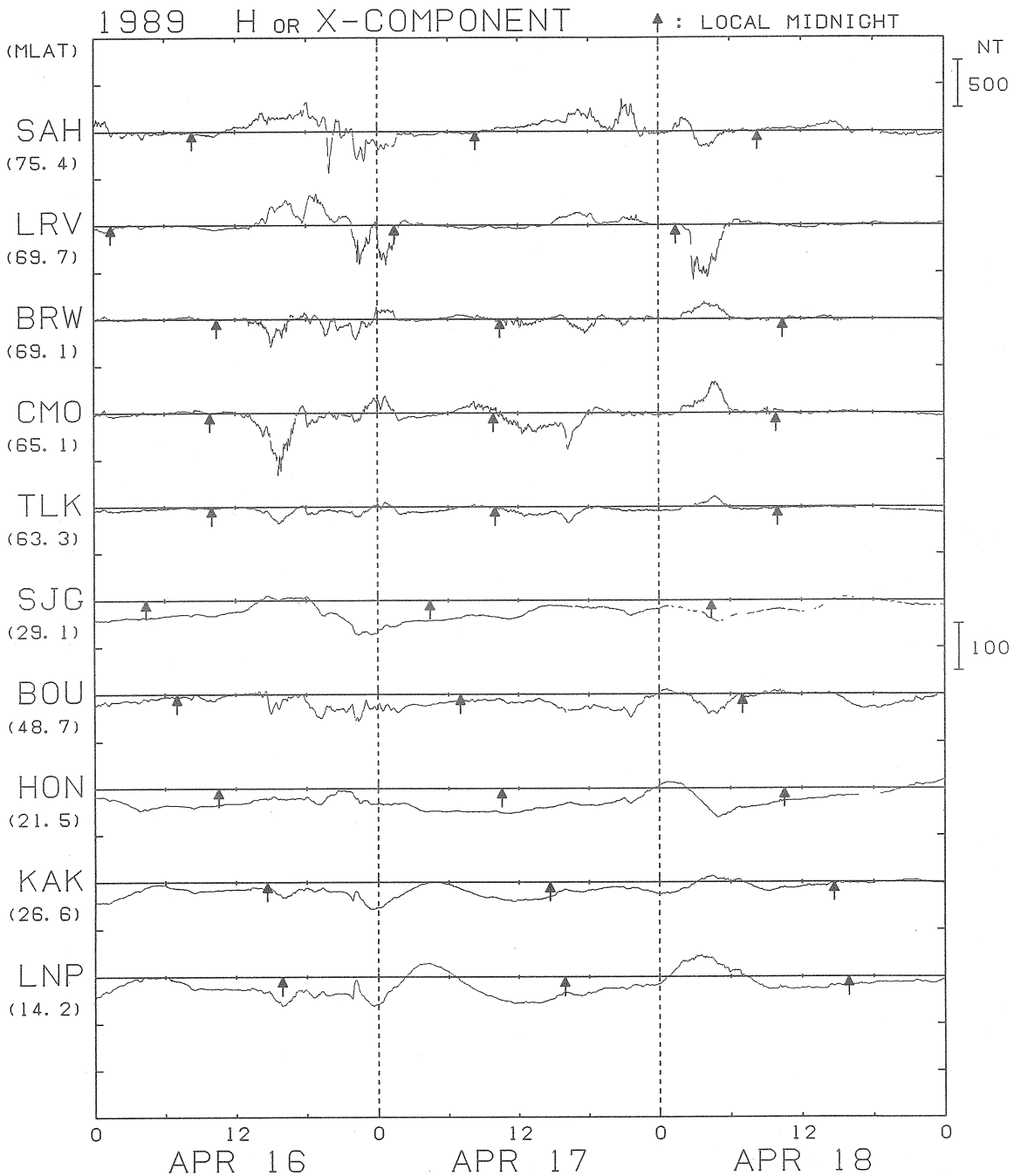


* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



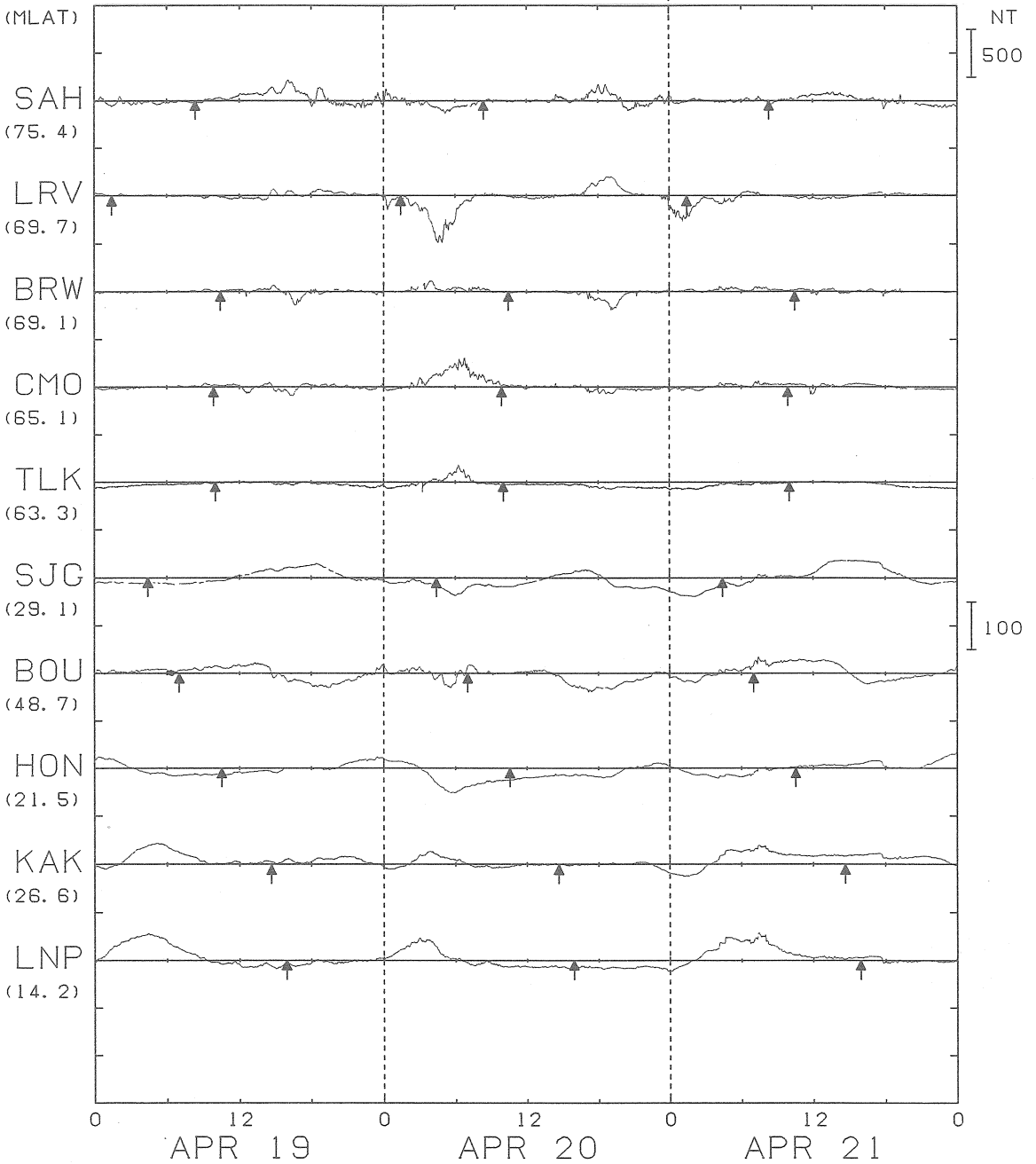
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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1989 H OR X-COMPONENT

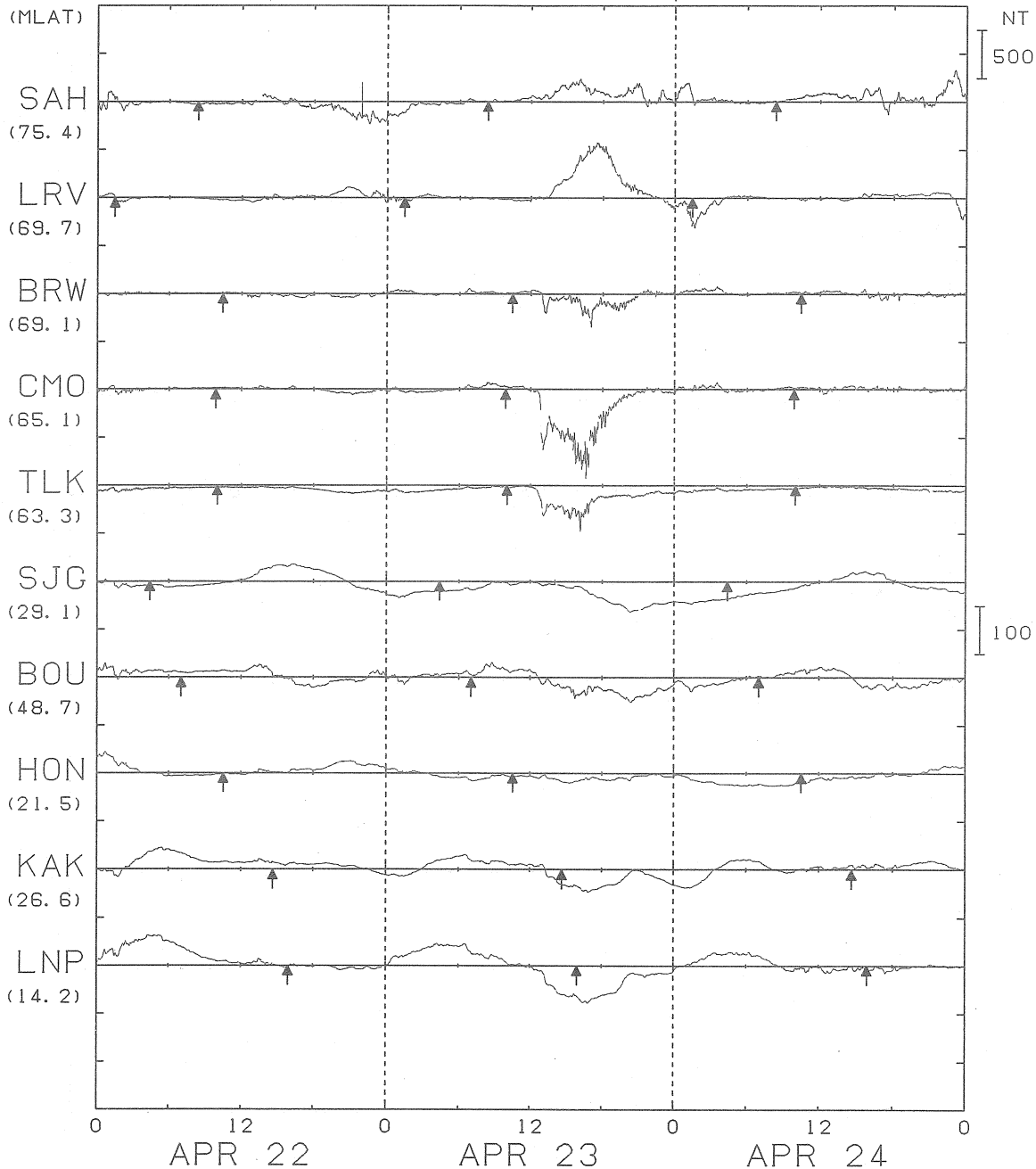
↑ : LOCAL MIDNIGHT



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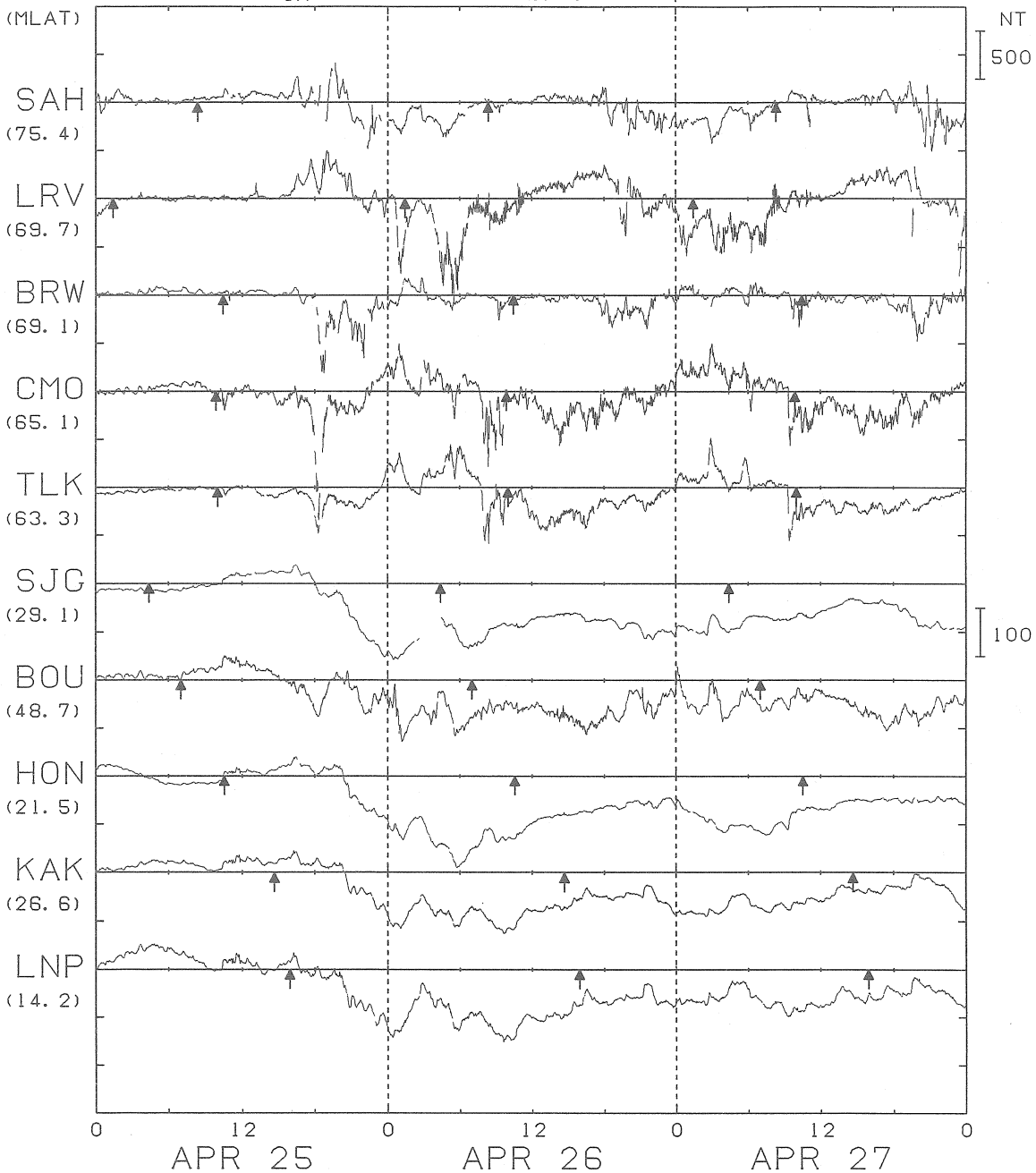
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



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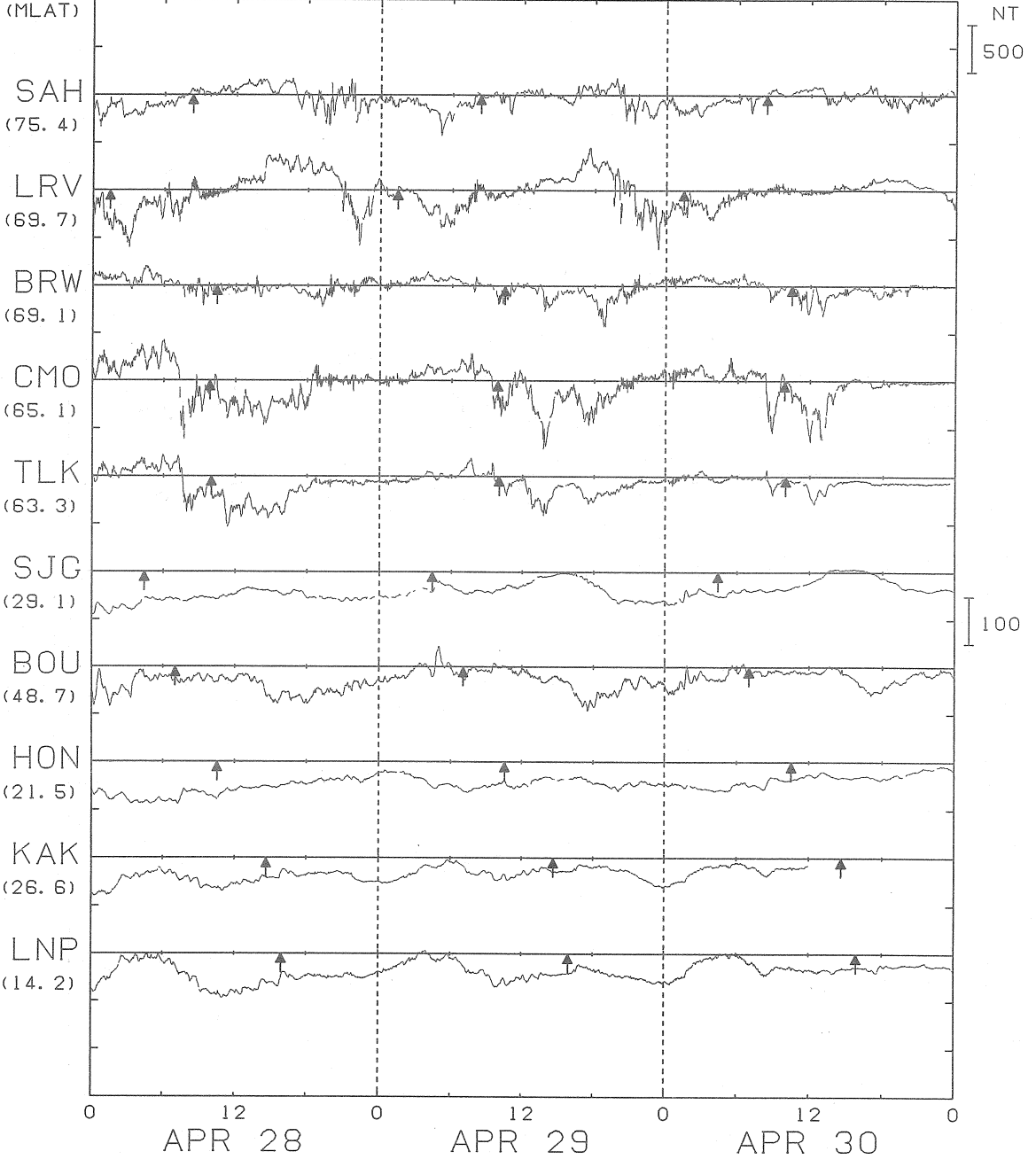
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



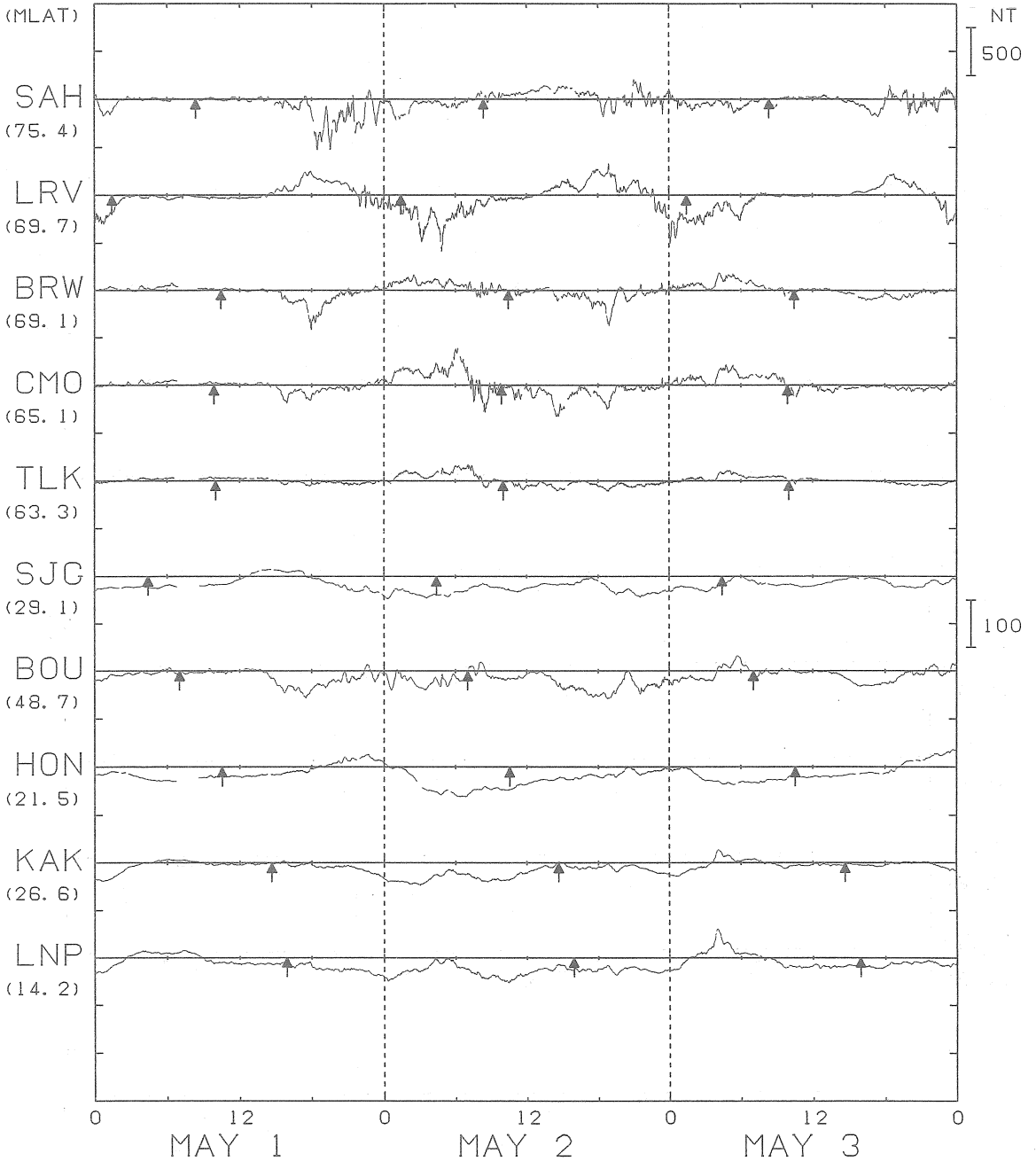
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MAY 1989

(DAY 121 - 151)

1989 H OR X-COMPONENT

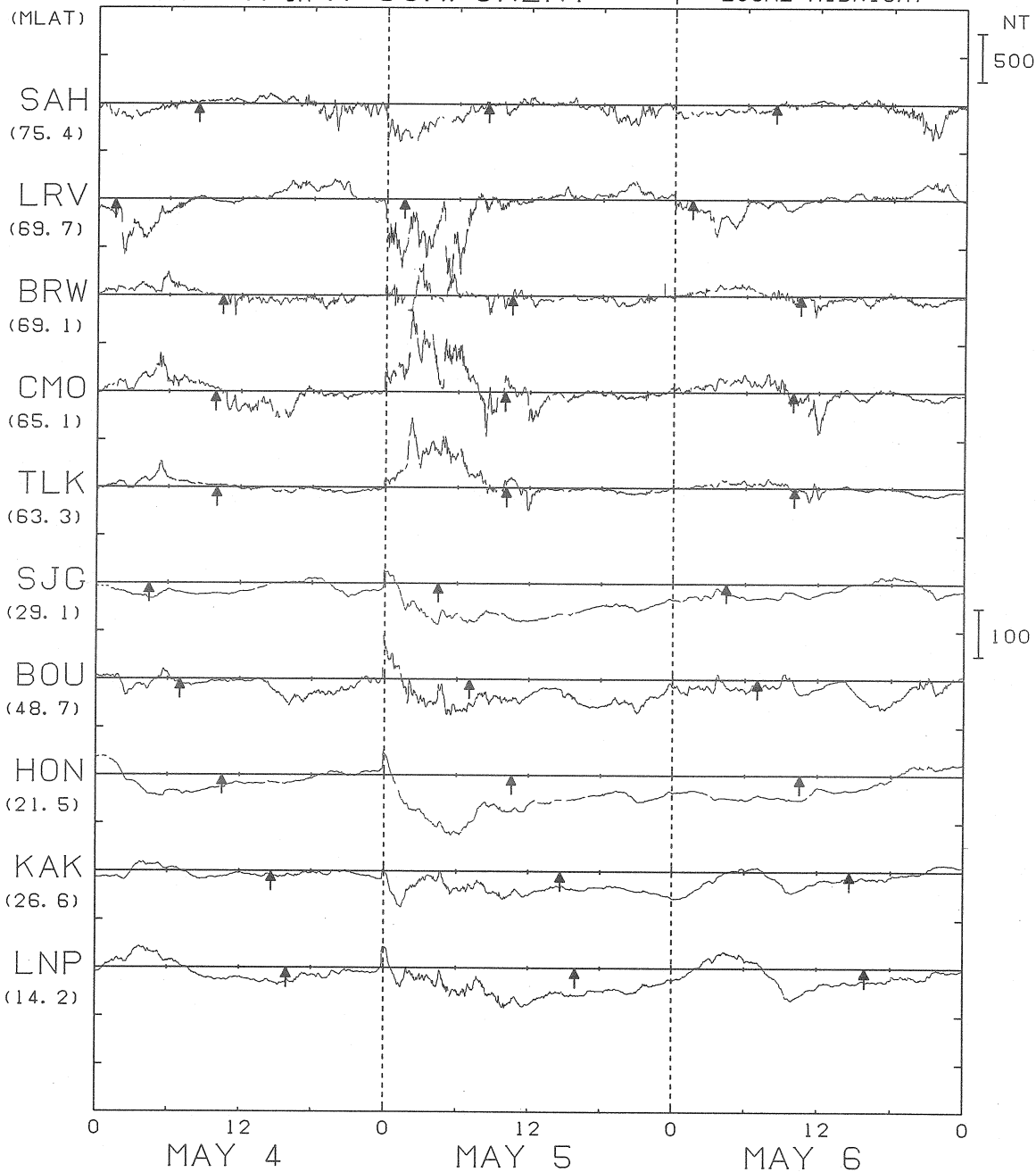
↑ : LOCAL MIDNIGHT



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

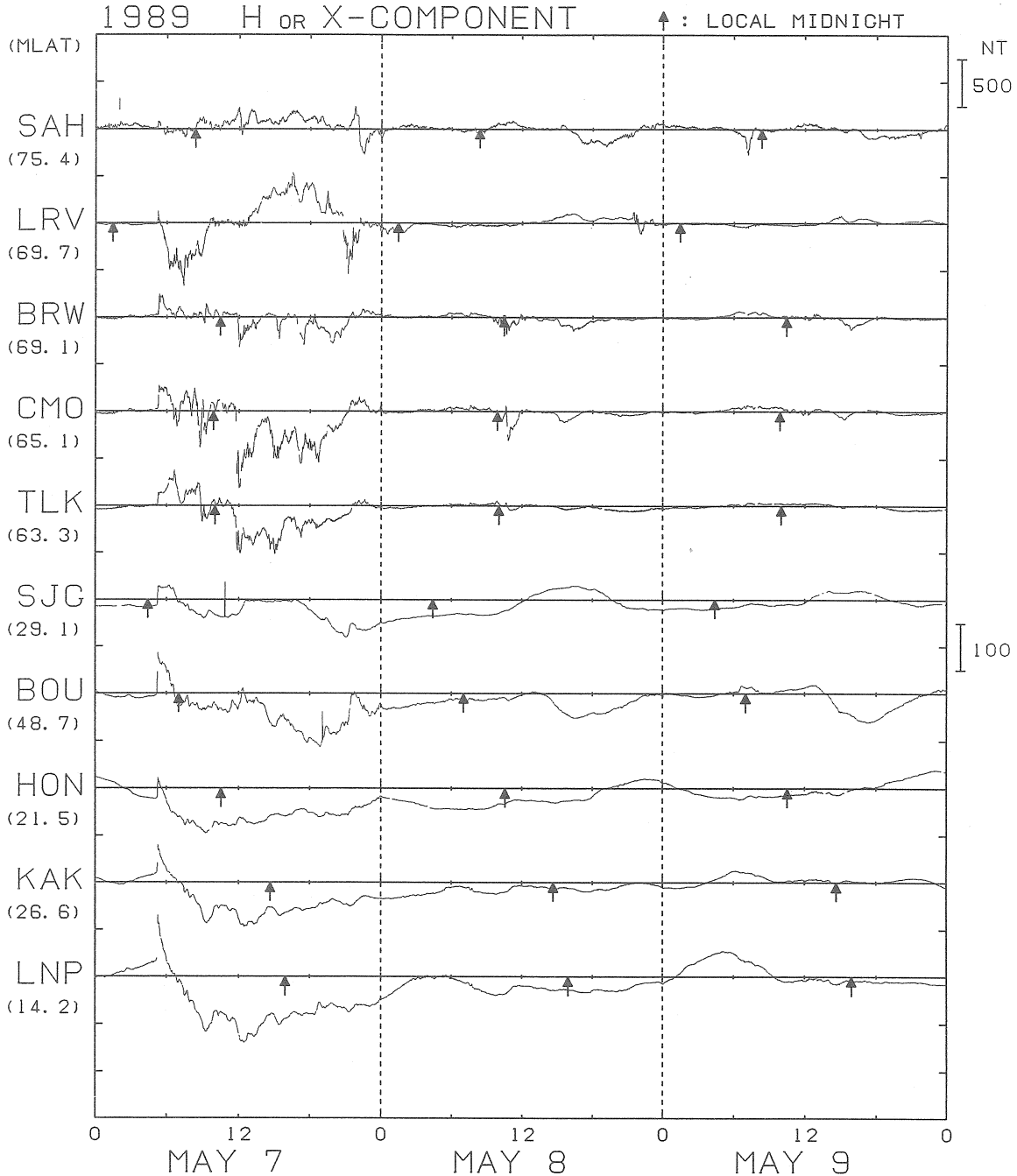
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



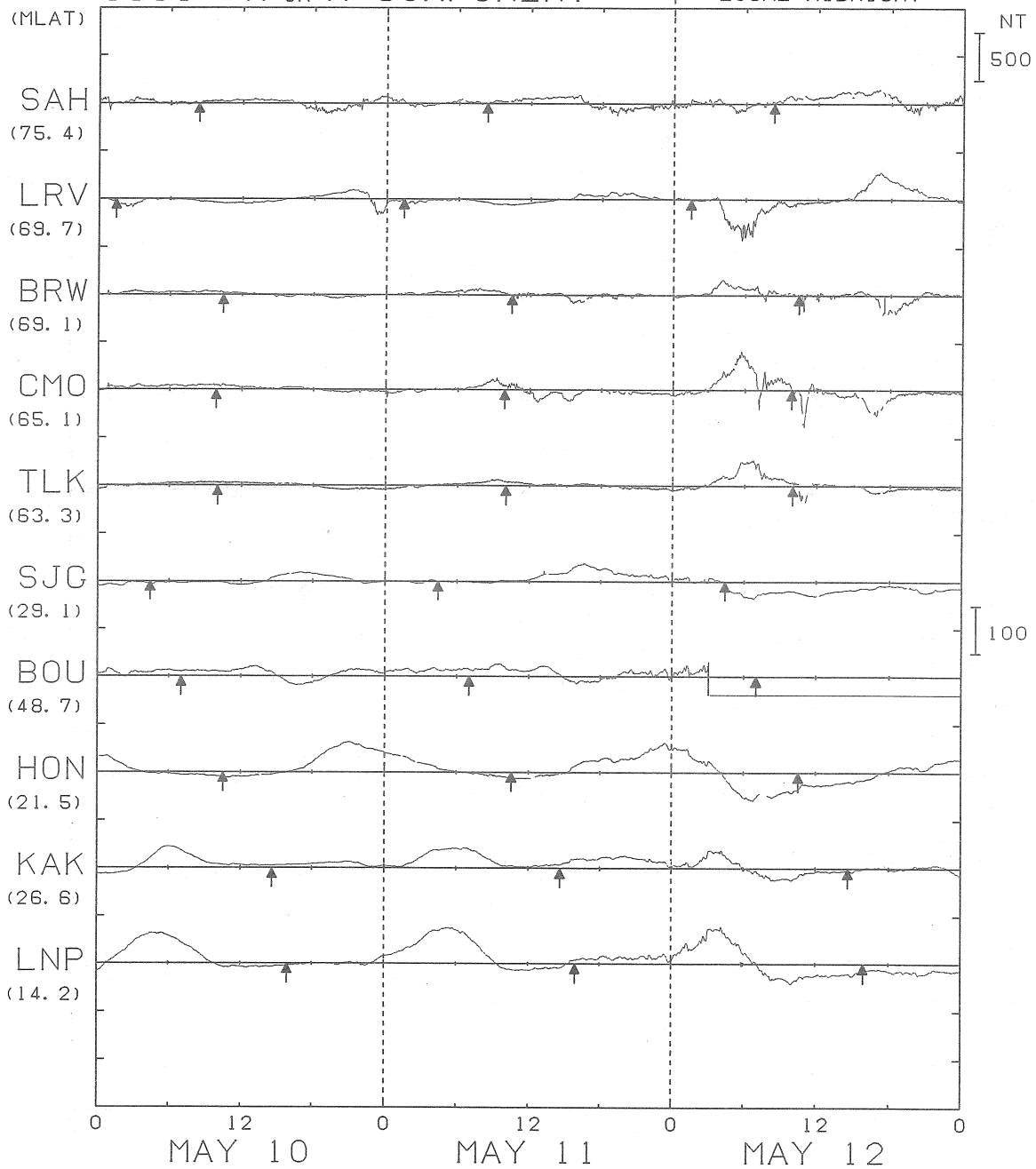
- * MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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1989 H OR X-COMPONENT



* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
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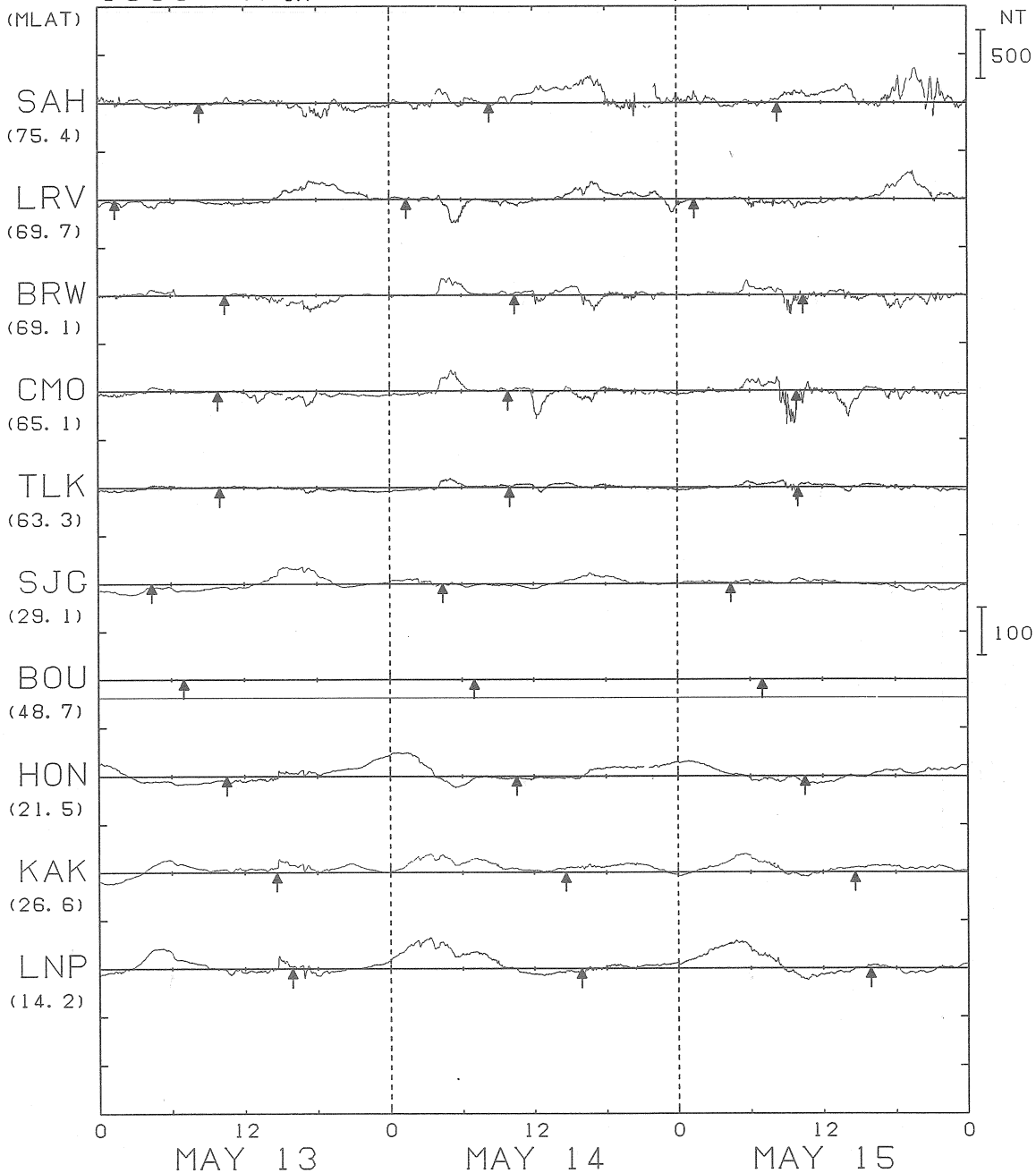
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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1989 H_{0R} X-COMPONENT

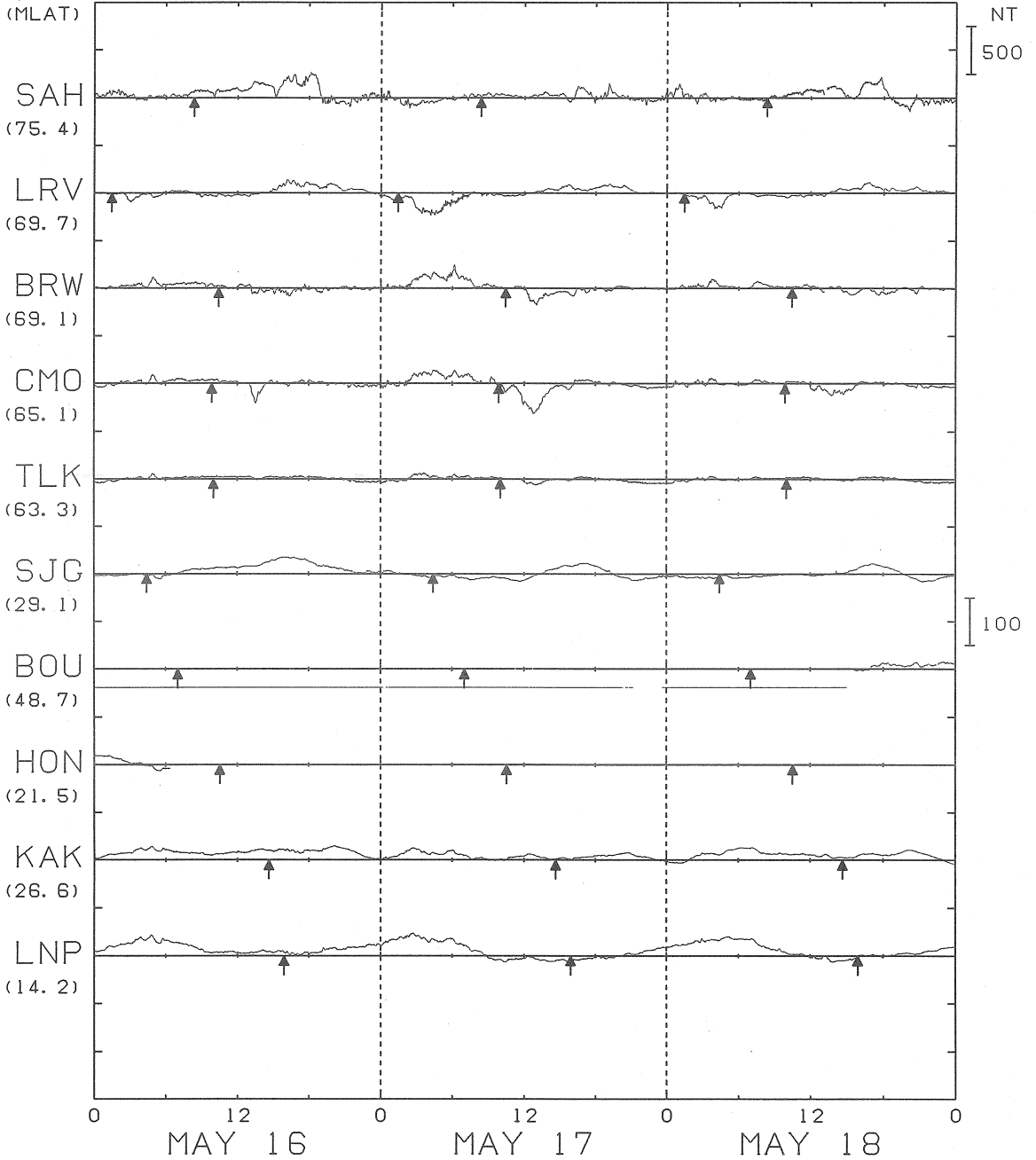
↑ : LOCAL MIDNIGHT



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 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT

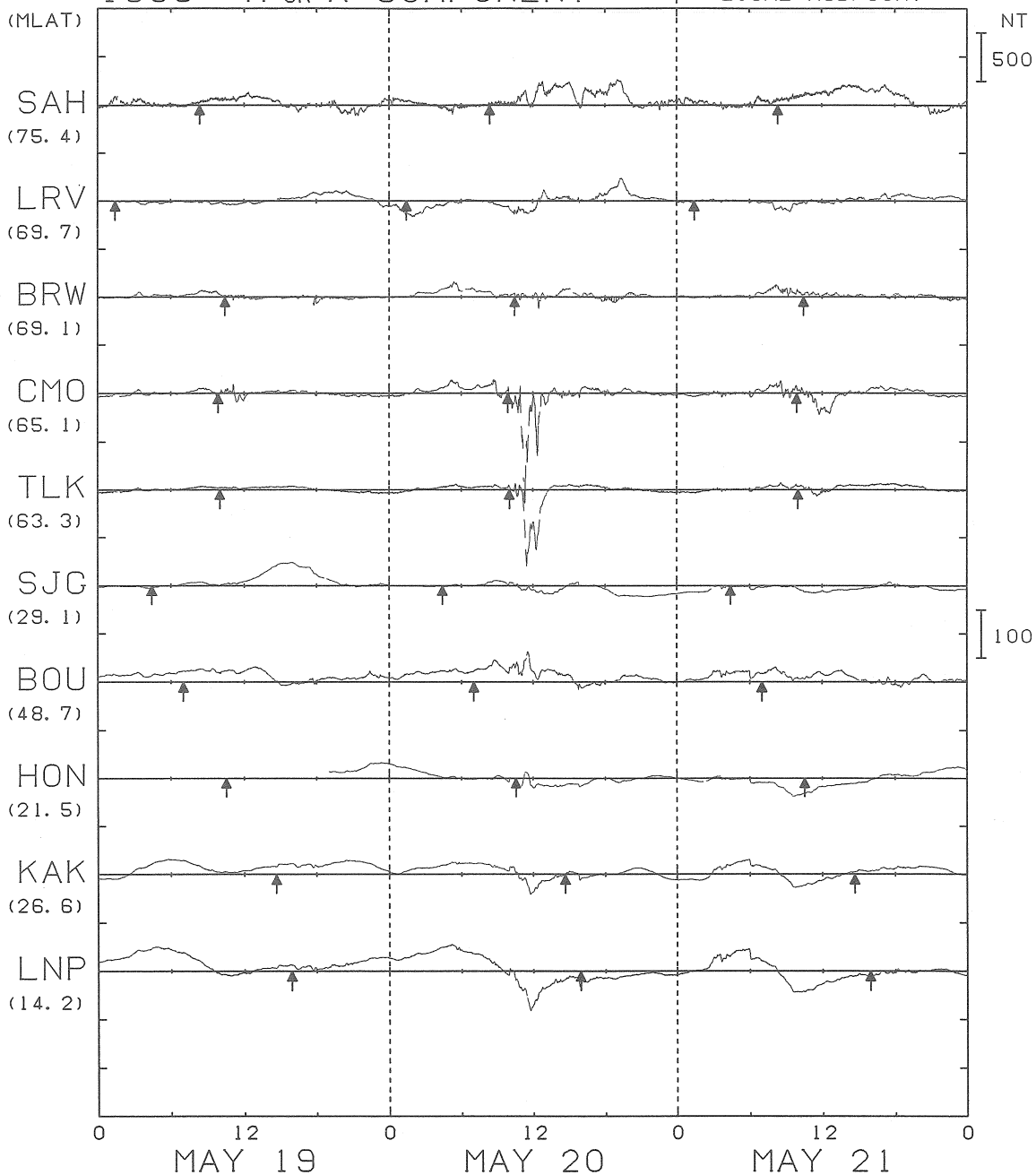
↑ : LOCAL MIDNIGHT



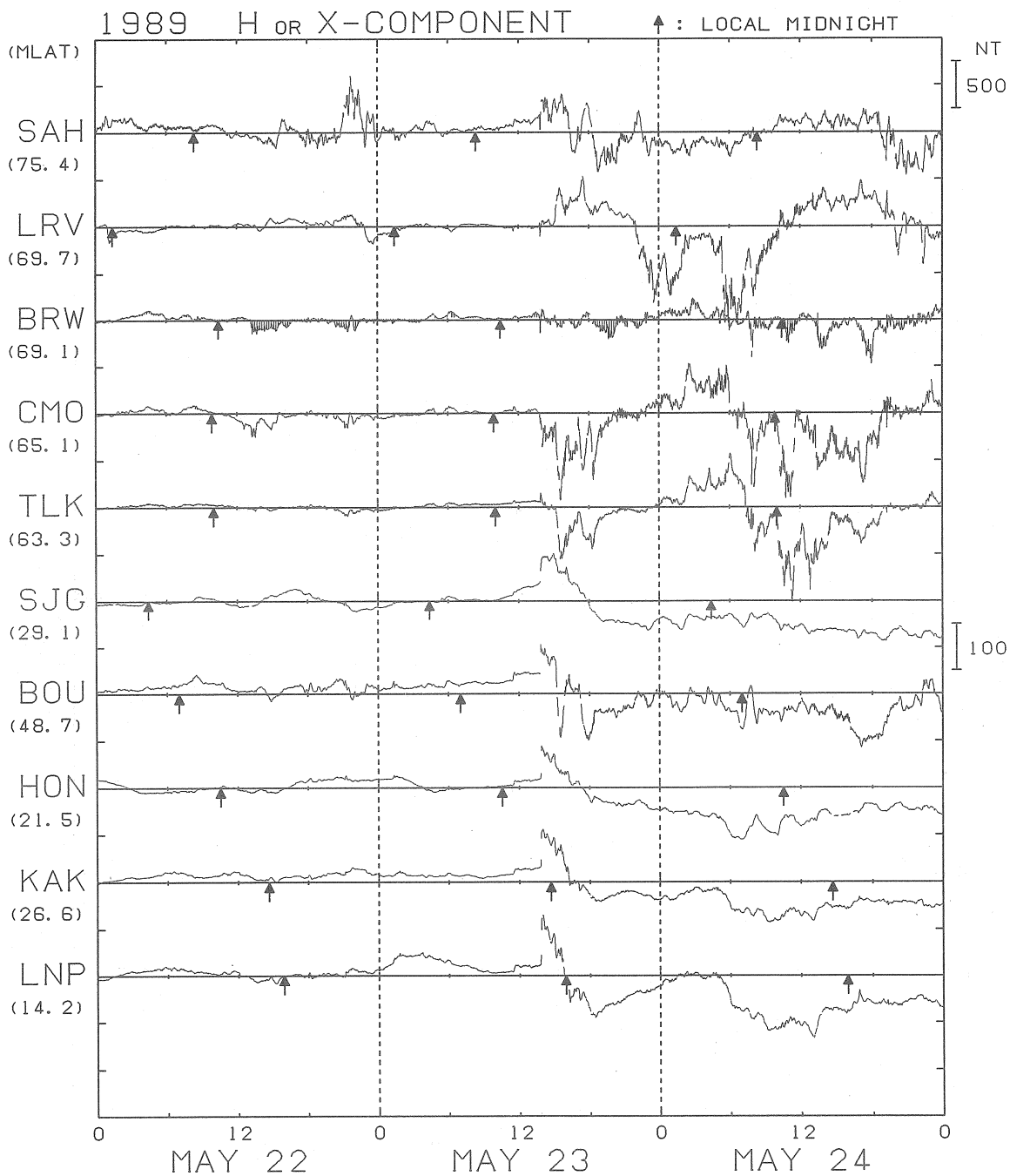
- * MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
- * PROMPT DATA INCLUDED
- * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT

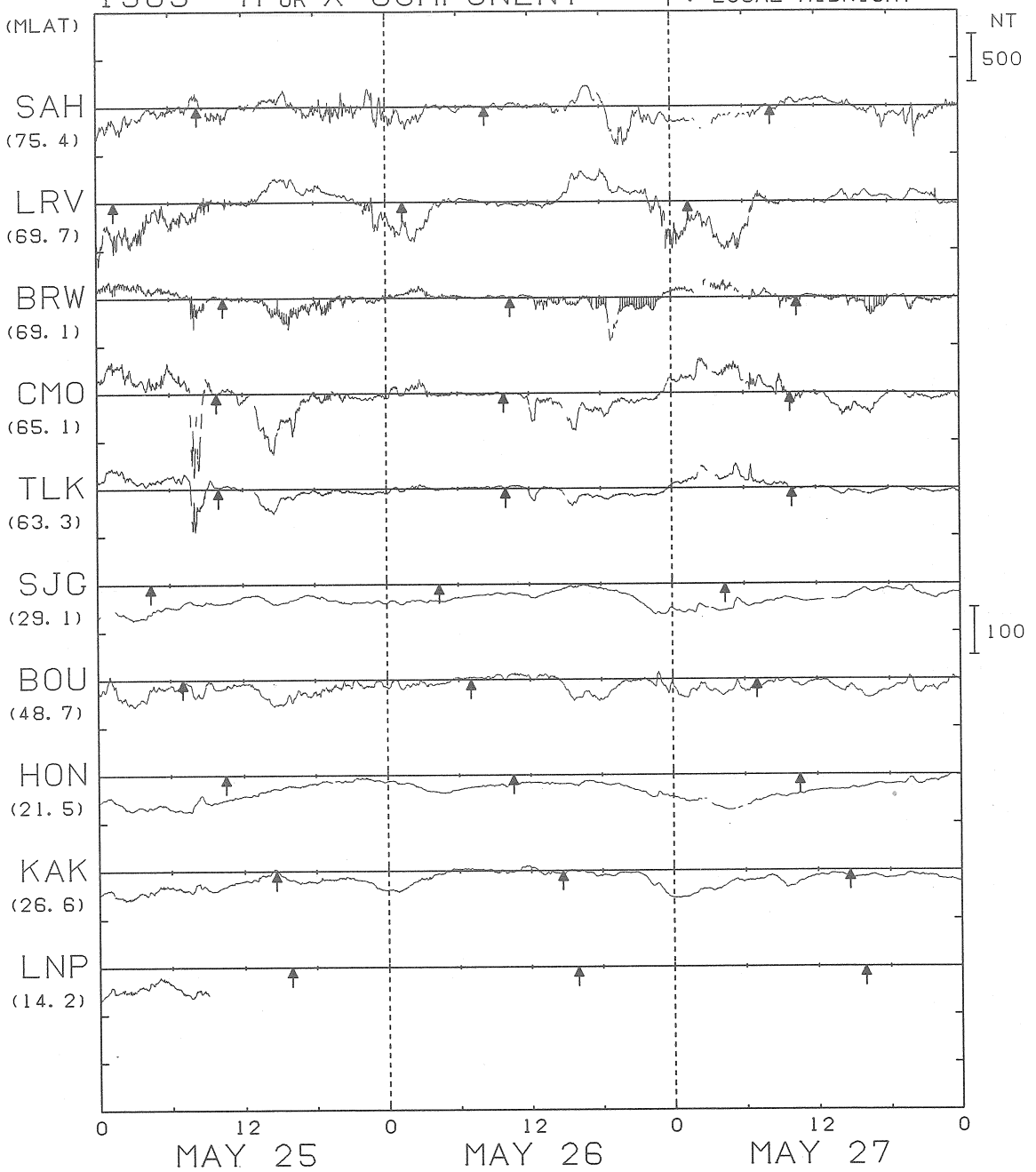


* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH



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

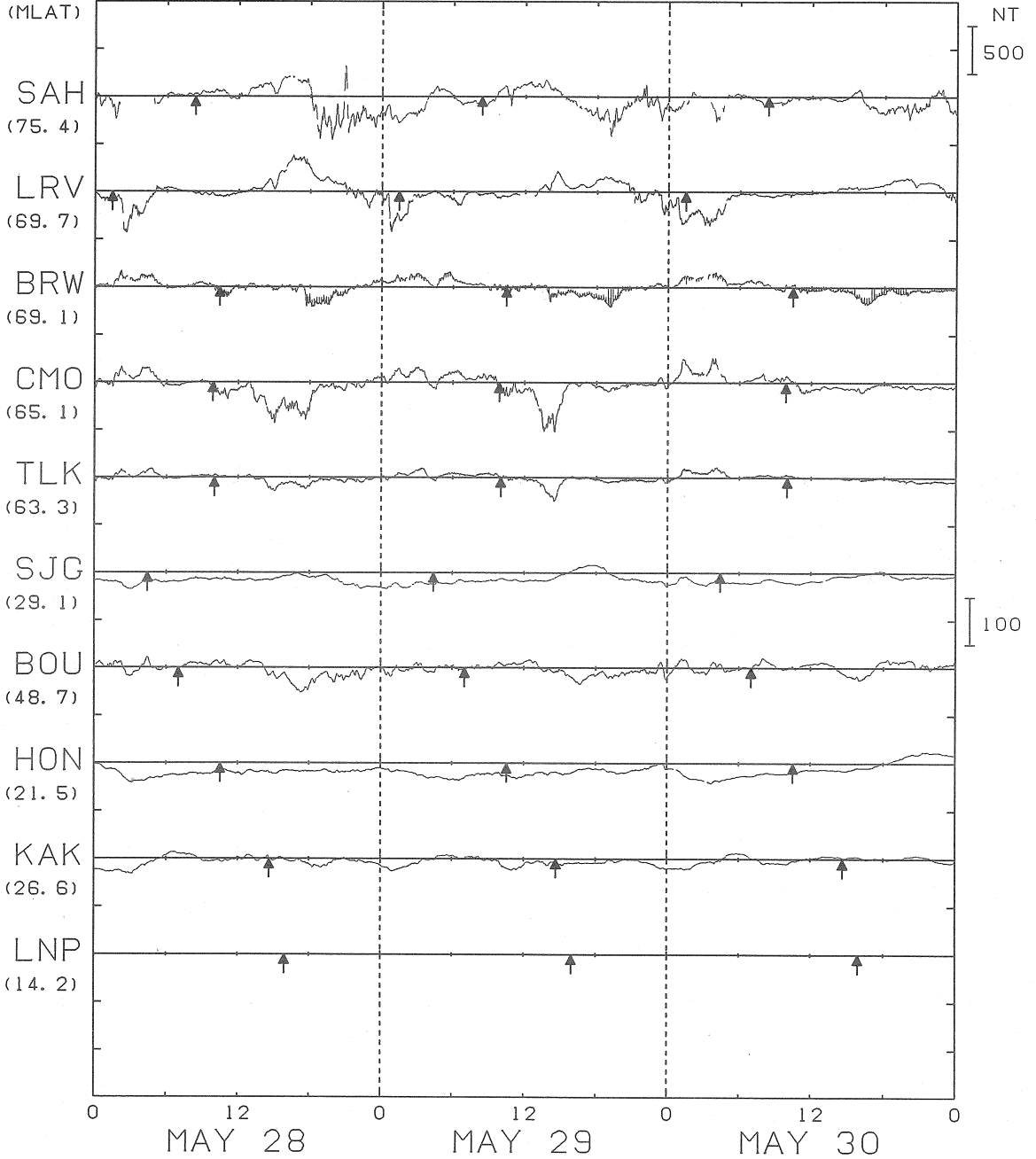
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

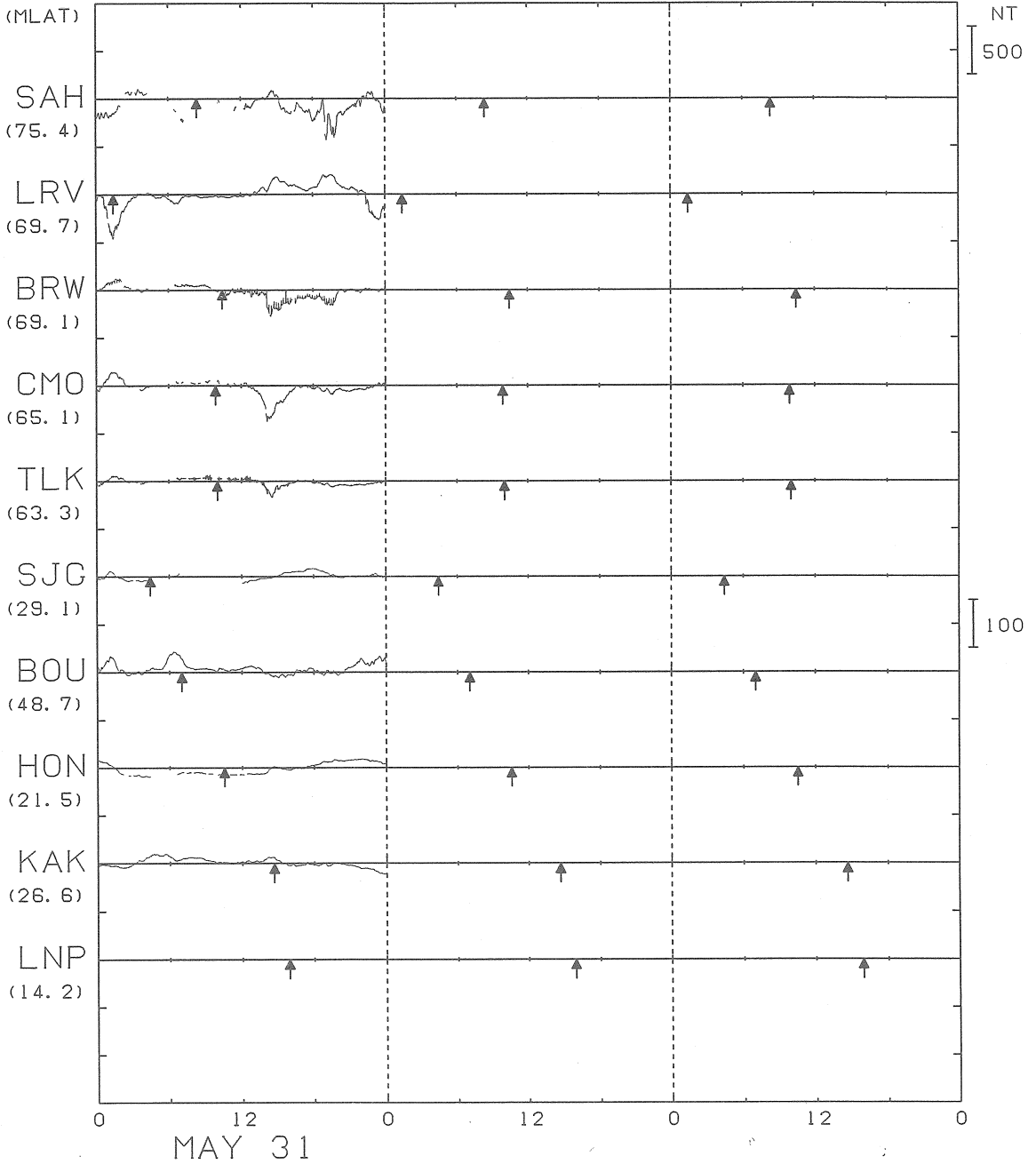
↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT

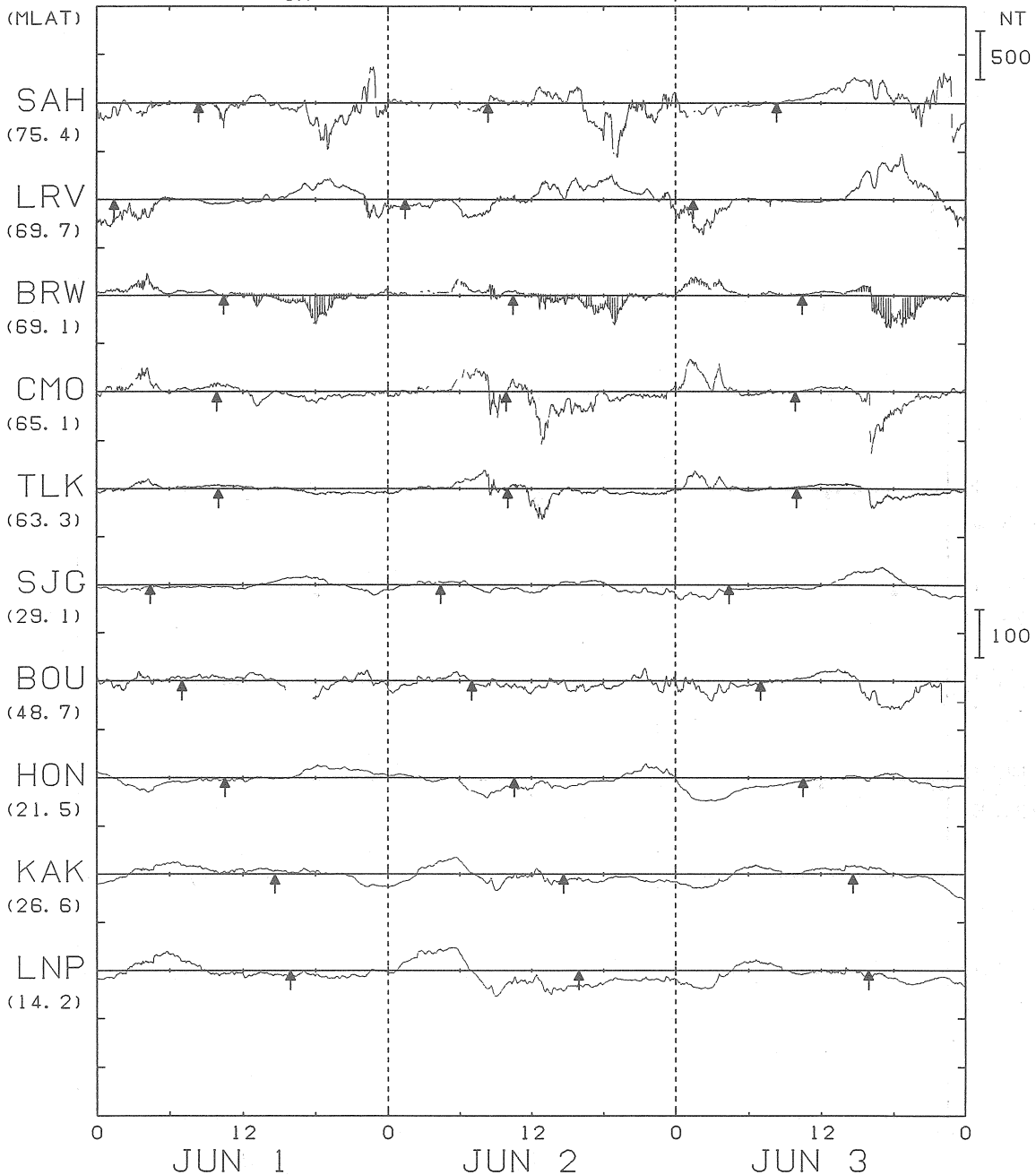


- * MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
- * PROMPT DATA INCLUDED
- * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

JUNE 1989

(DAY 152 - 181)

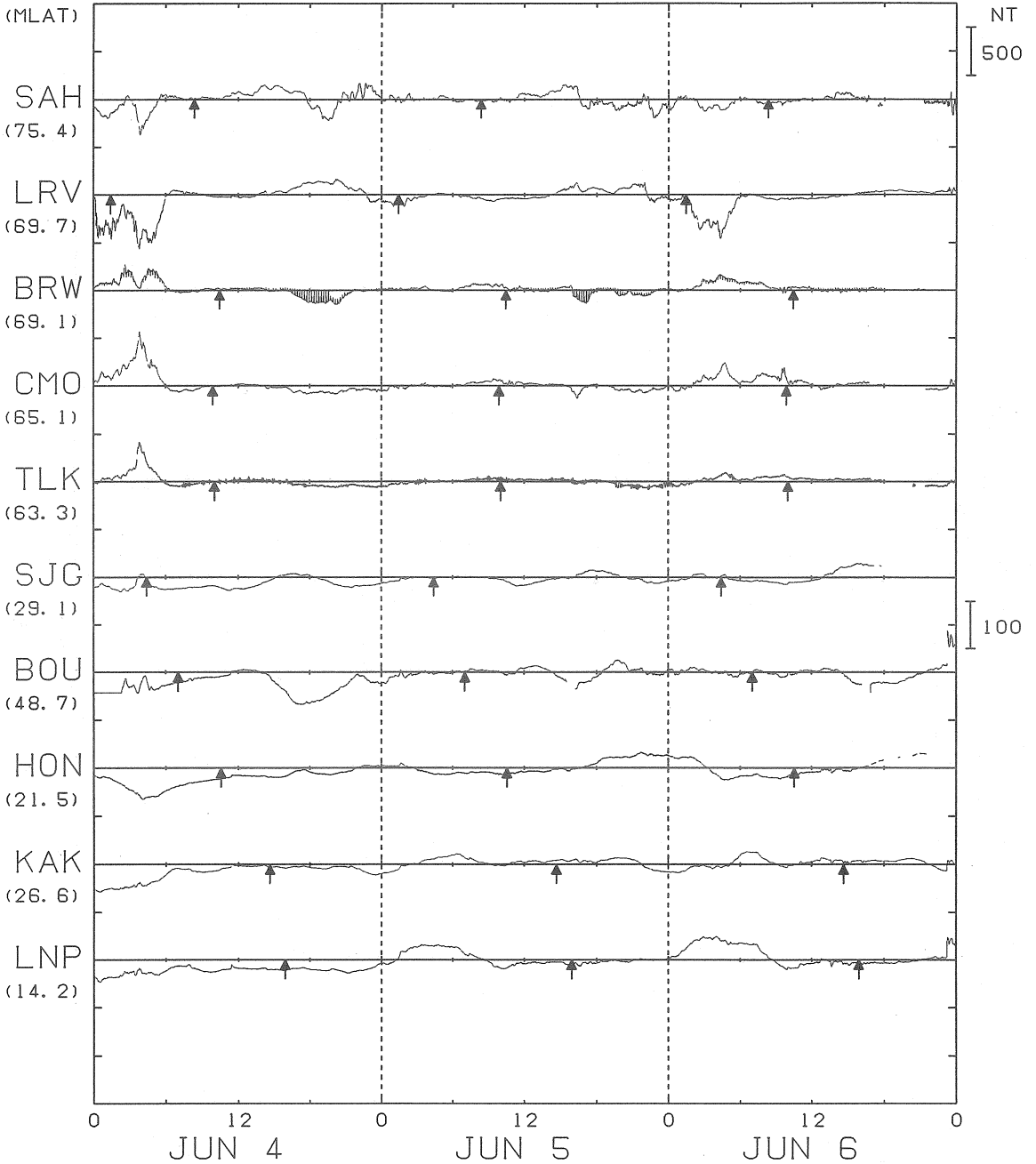
1989 H OR X-COMPONENT



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

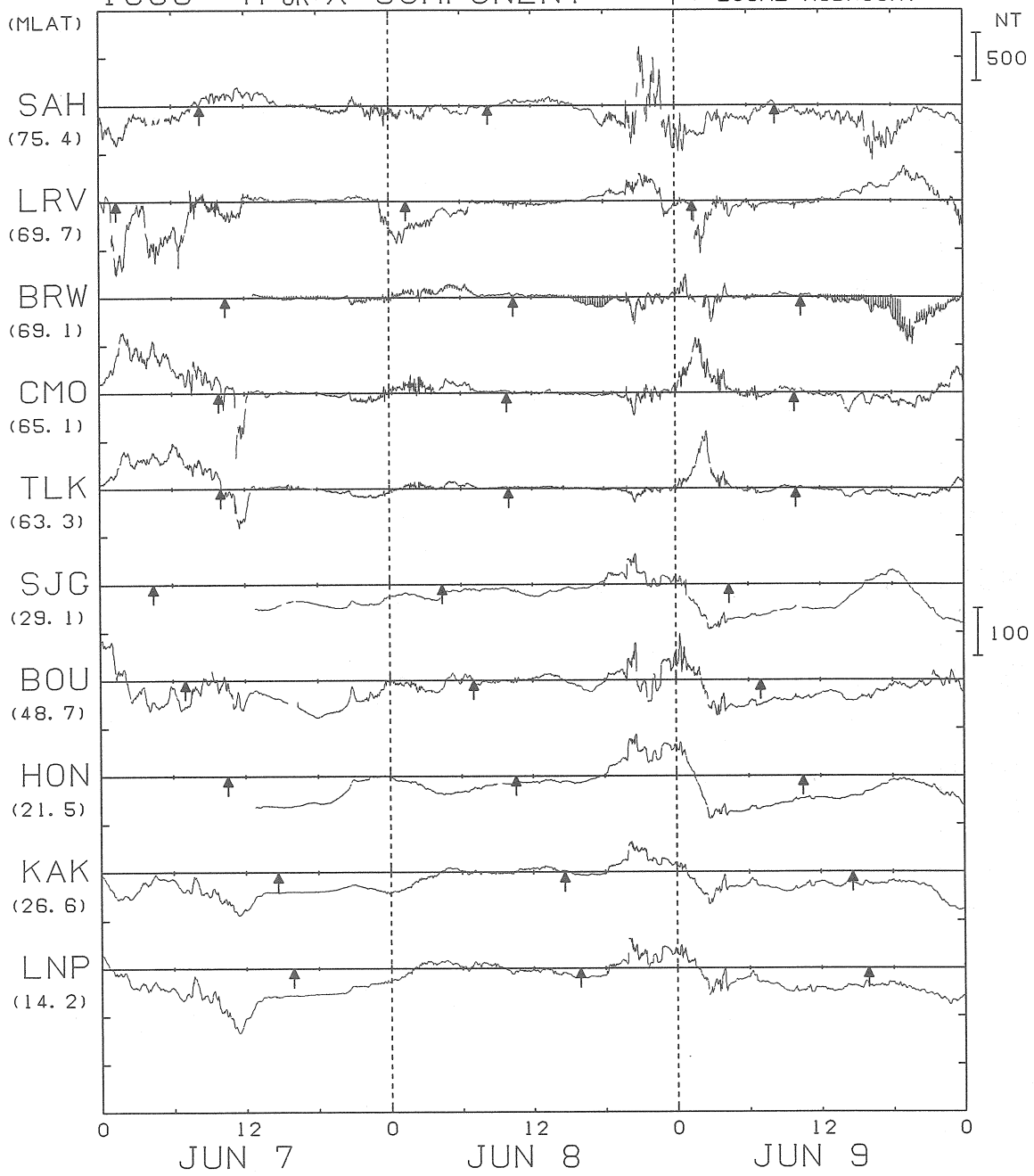
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



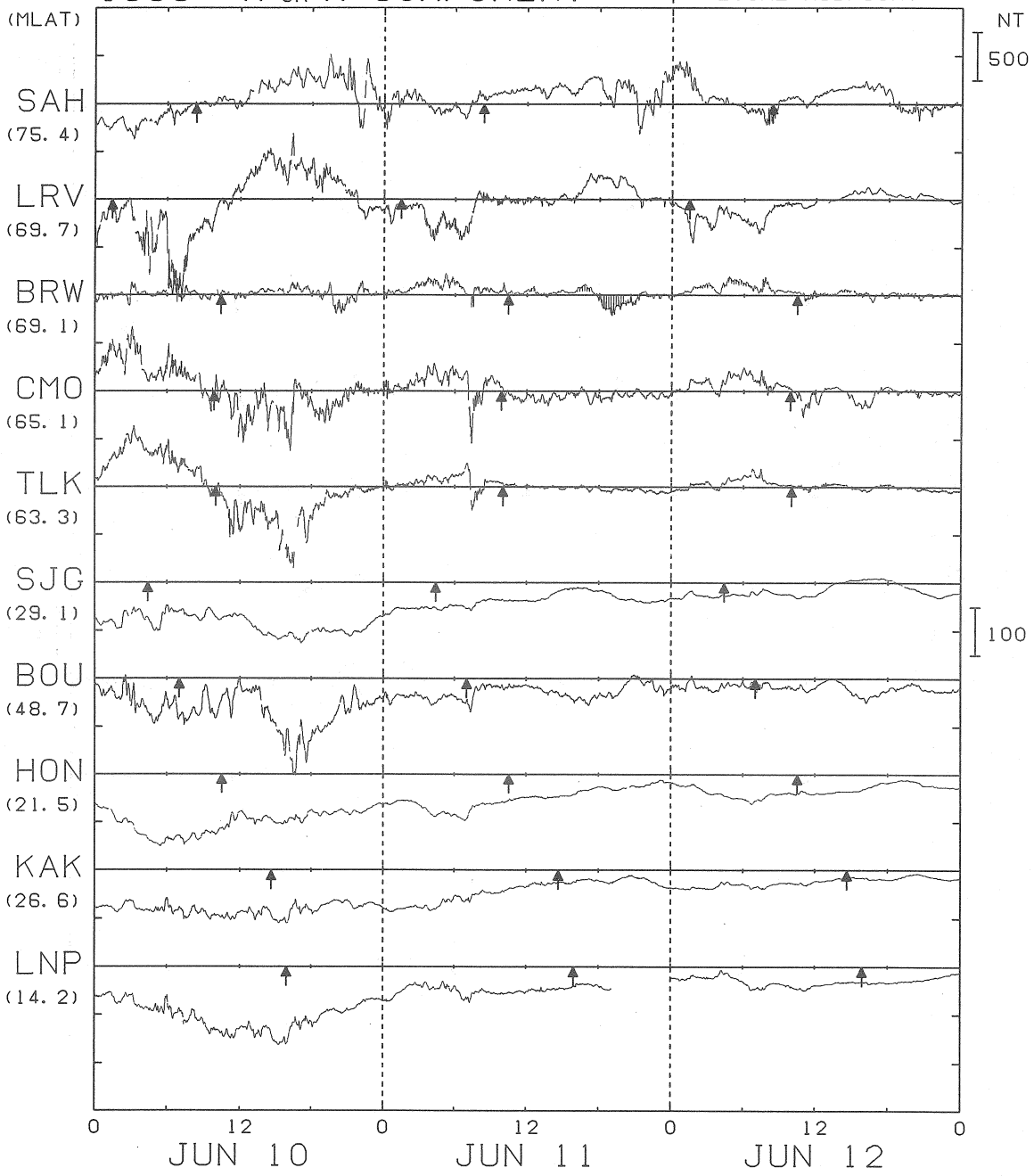
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H_{0R} X-COMPONENT



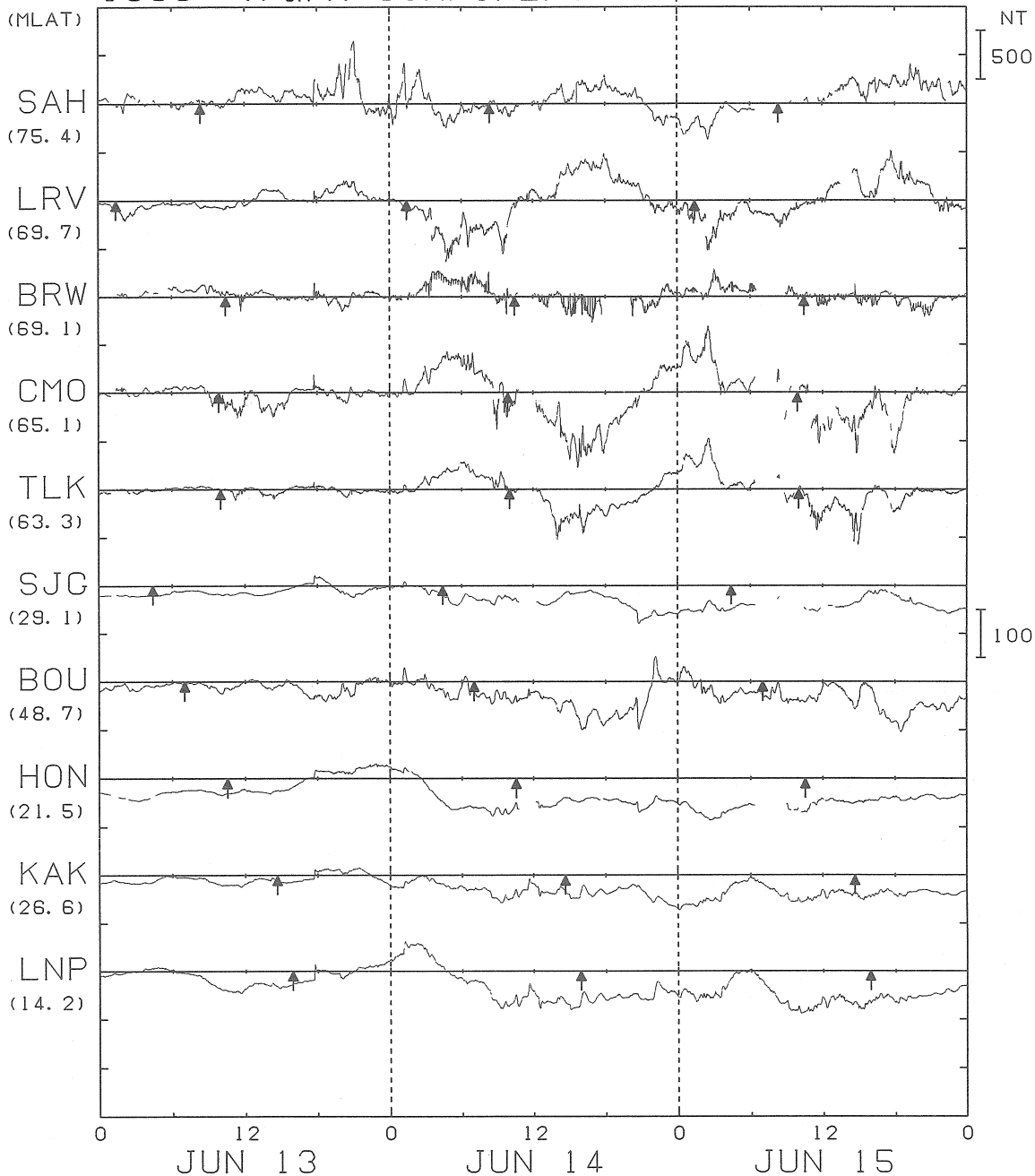
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT



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

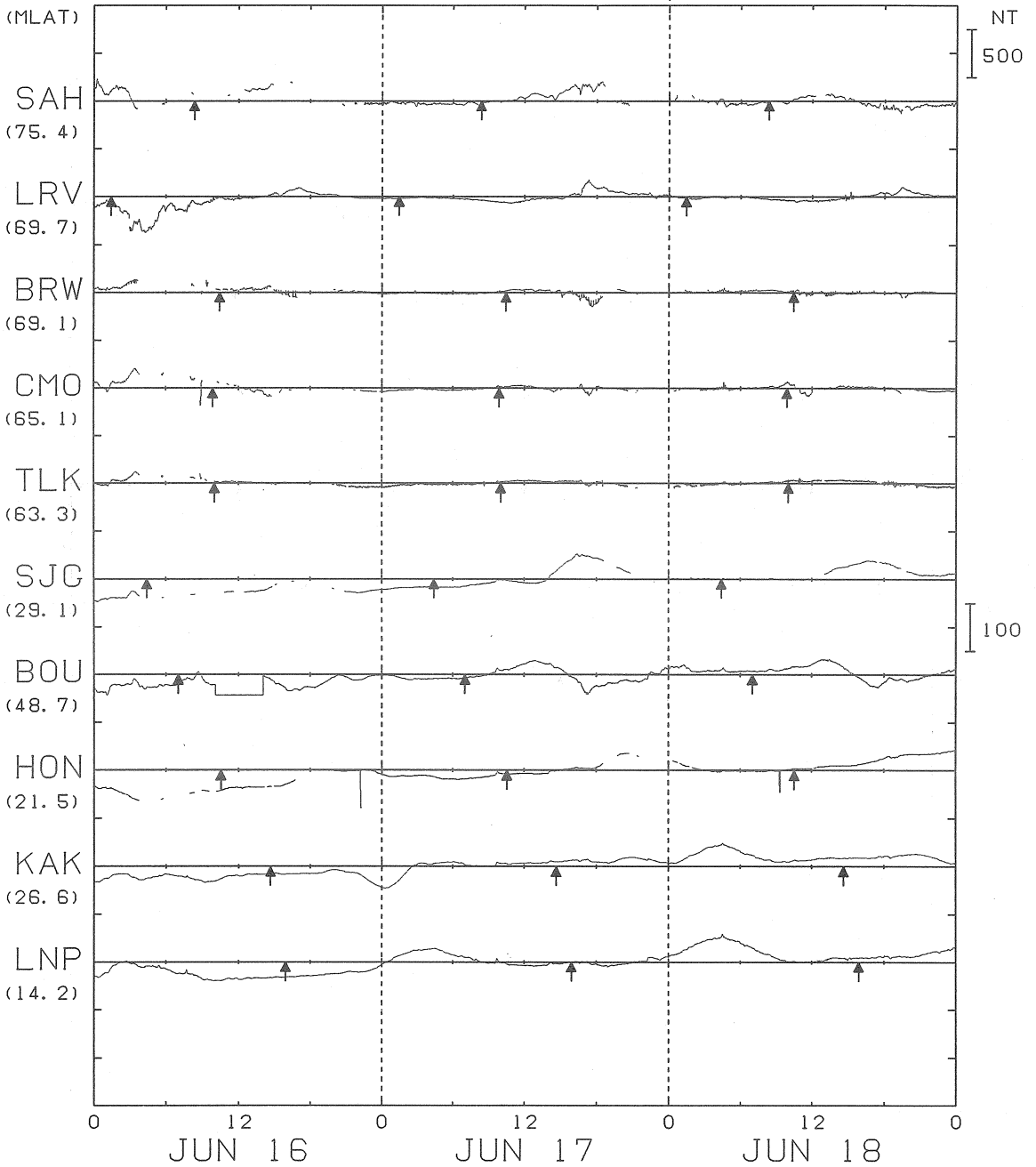
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

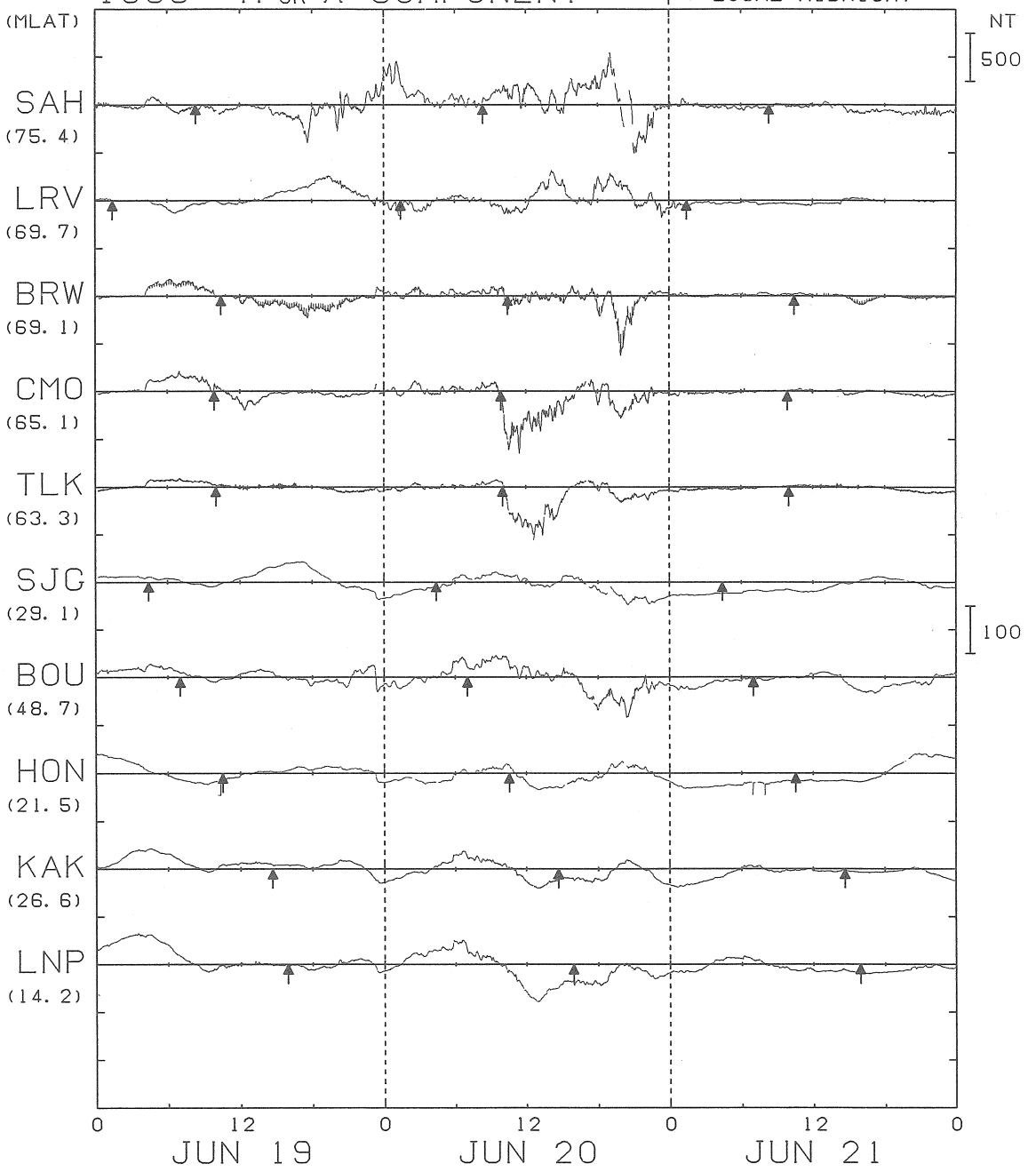
↑ : LOCAL MIDNIGHT



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

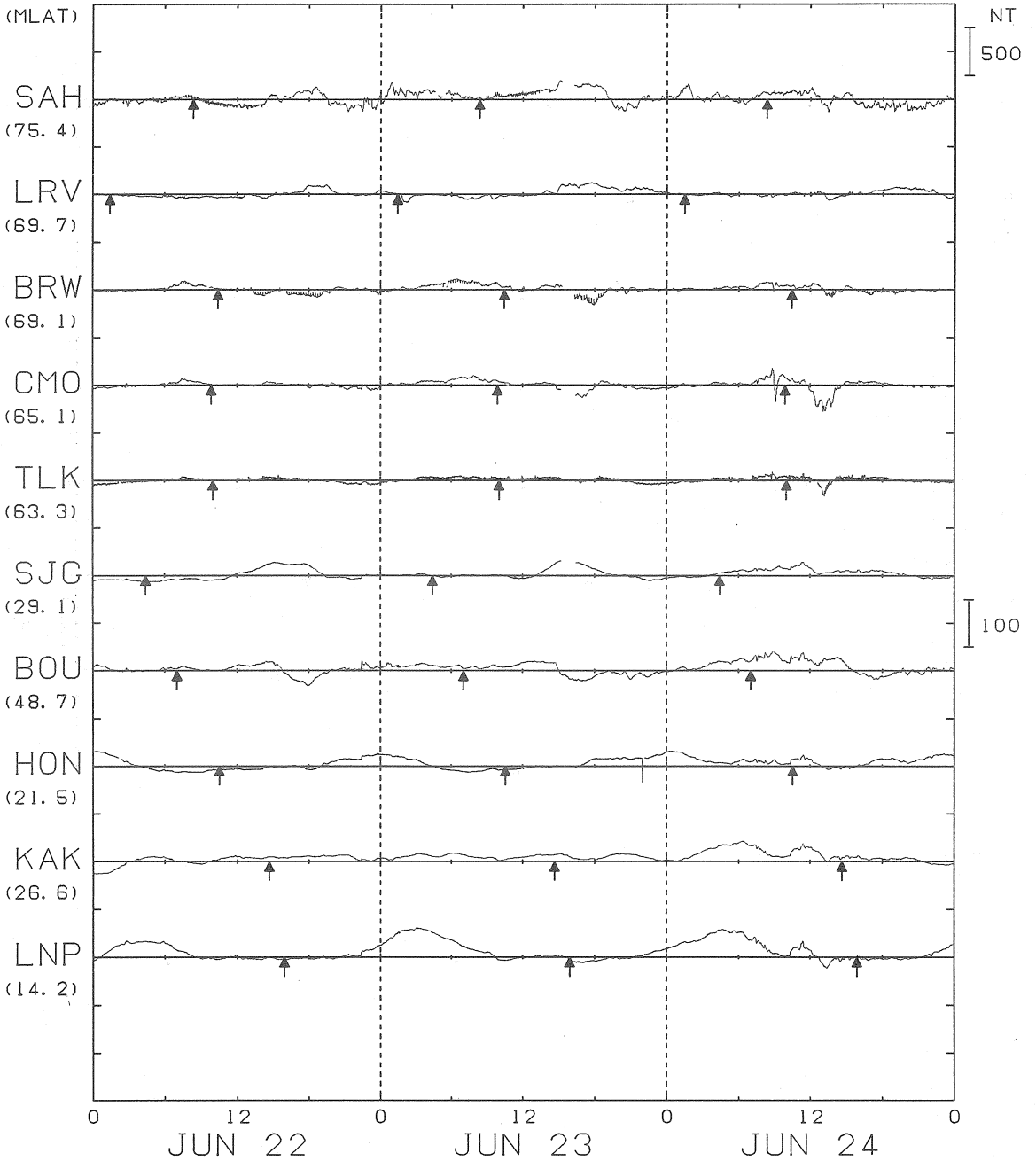
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



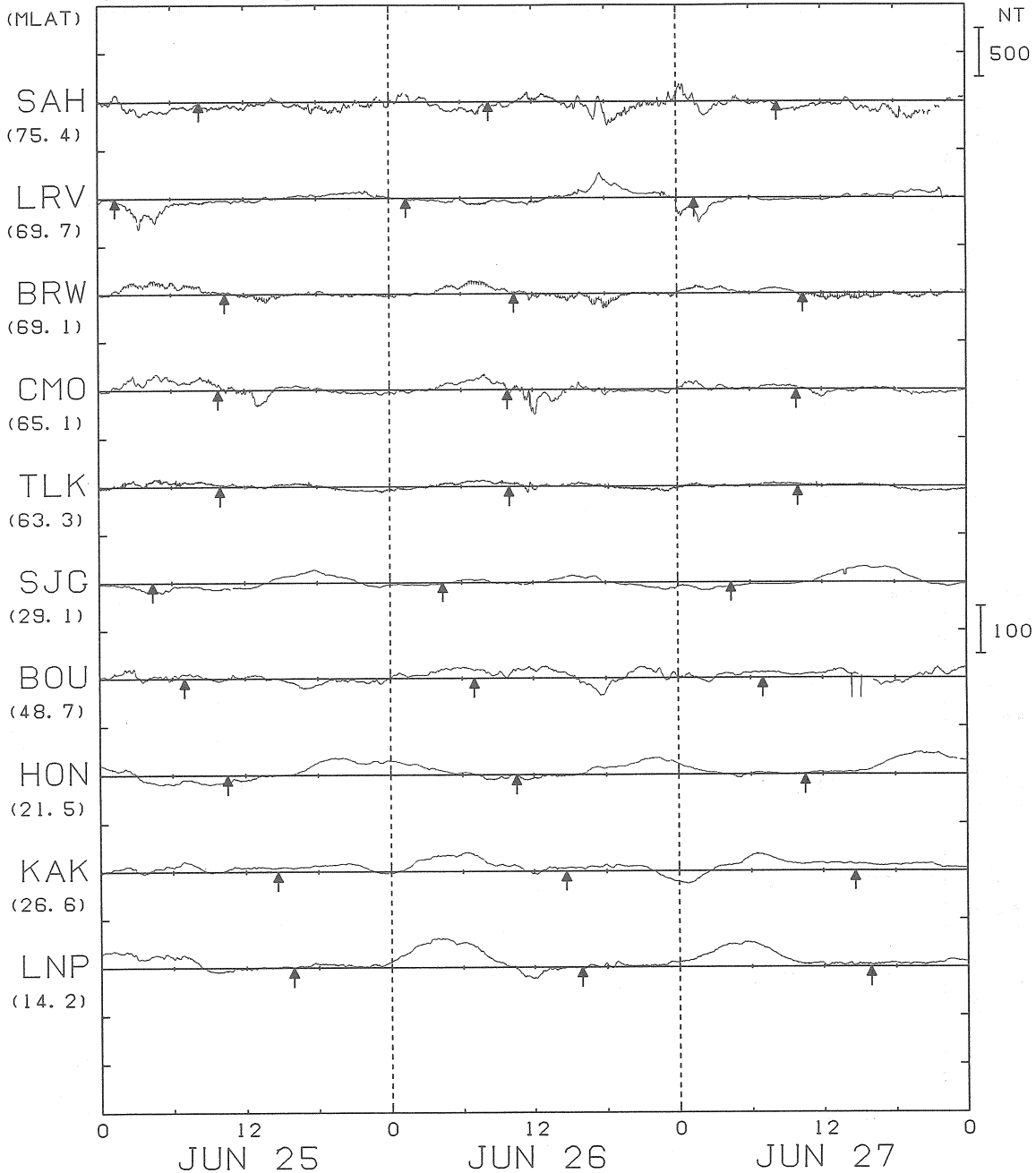
- * MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
- * PROMPT DATA INCLUDED
- * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT



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

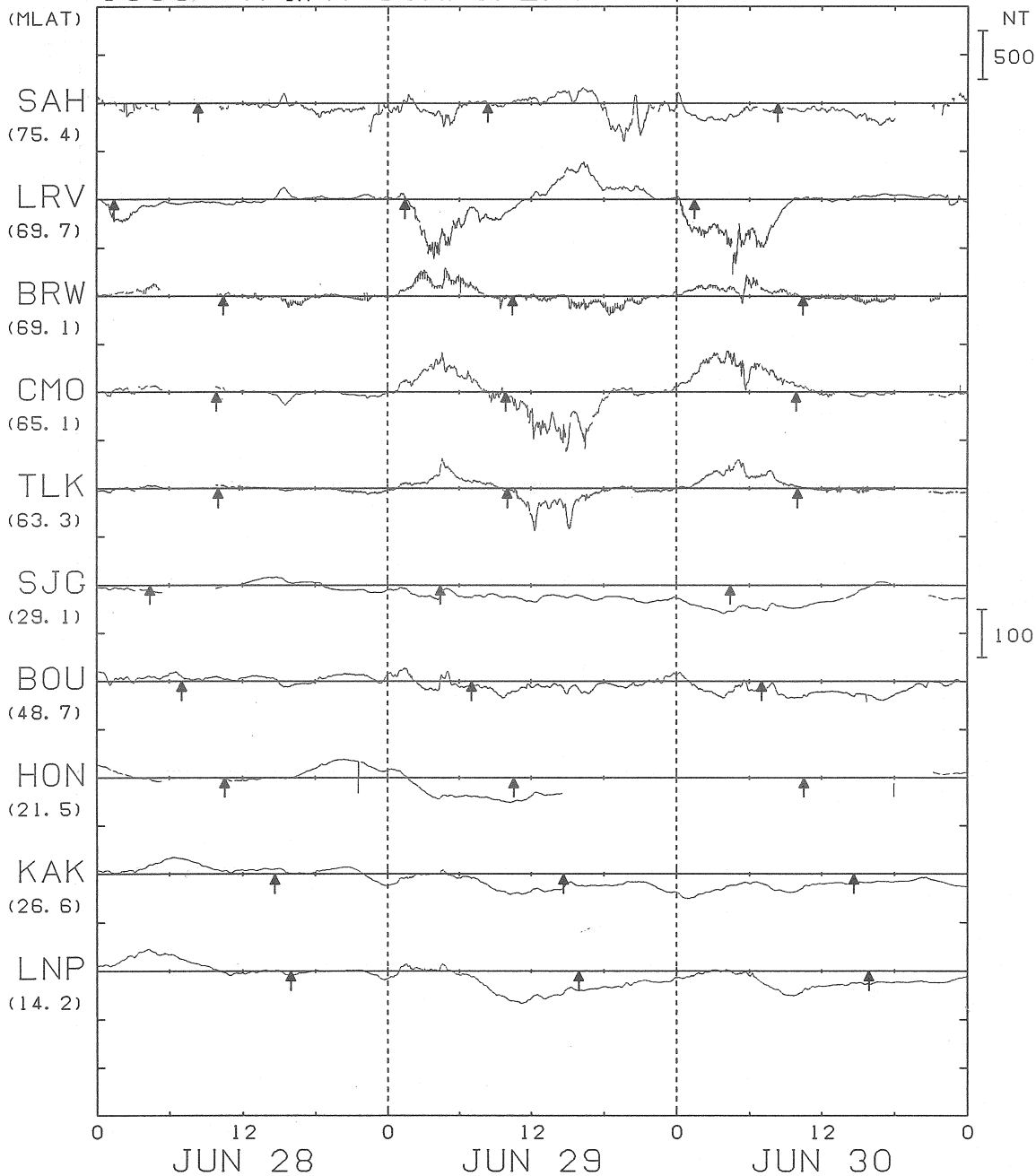
1989 H_{OR} X-COMPONENT ↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



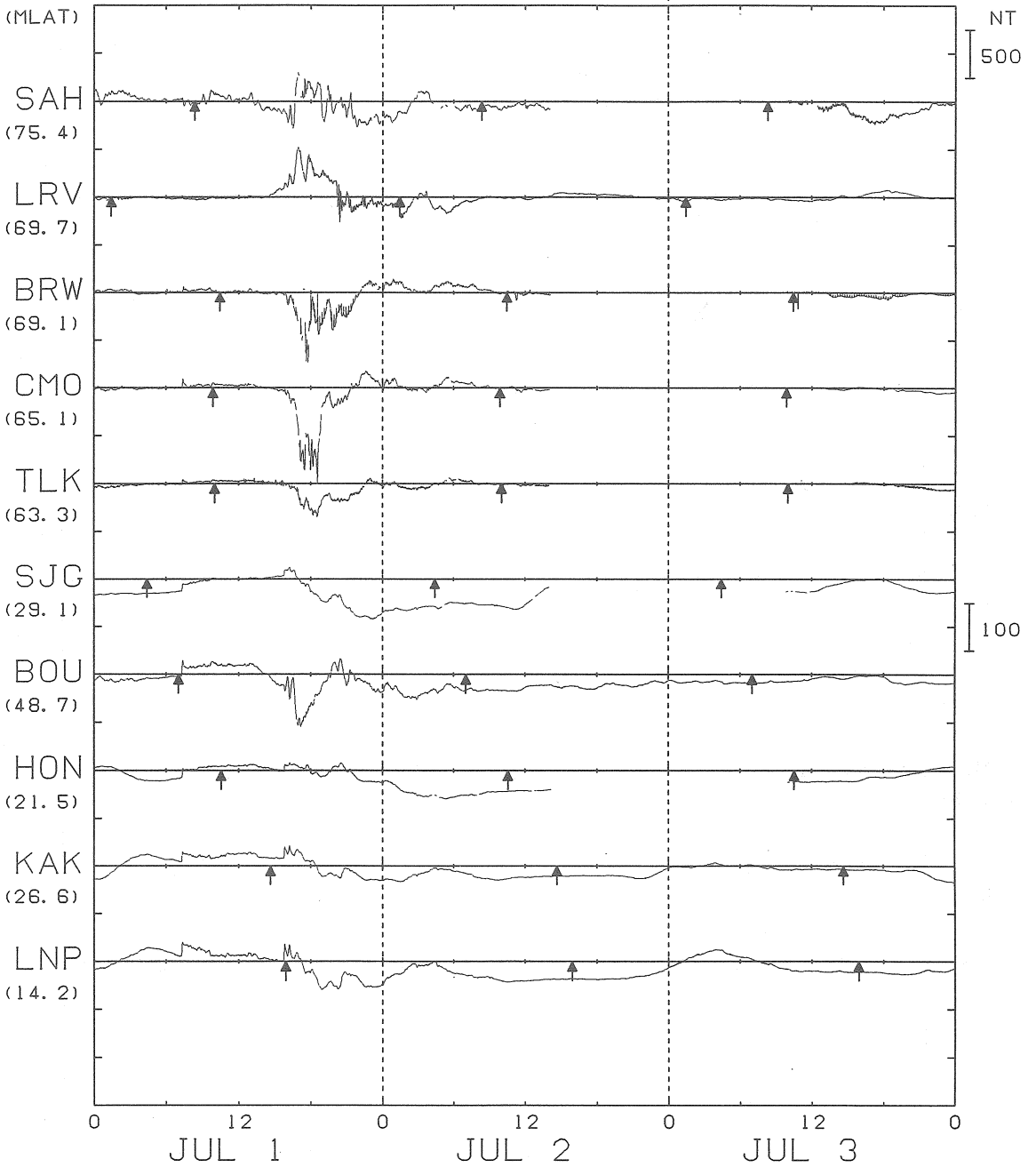
- * MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
- * PROMPT DATA INCLUDED
- * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

JULY 1989

(DAY 182 - 212)

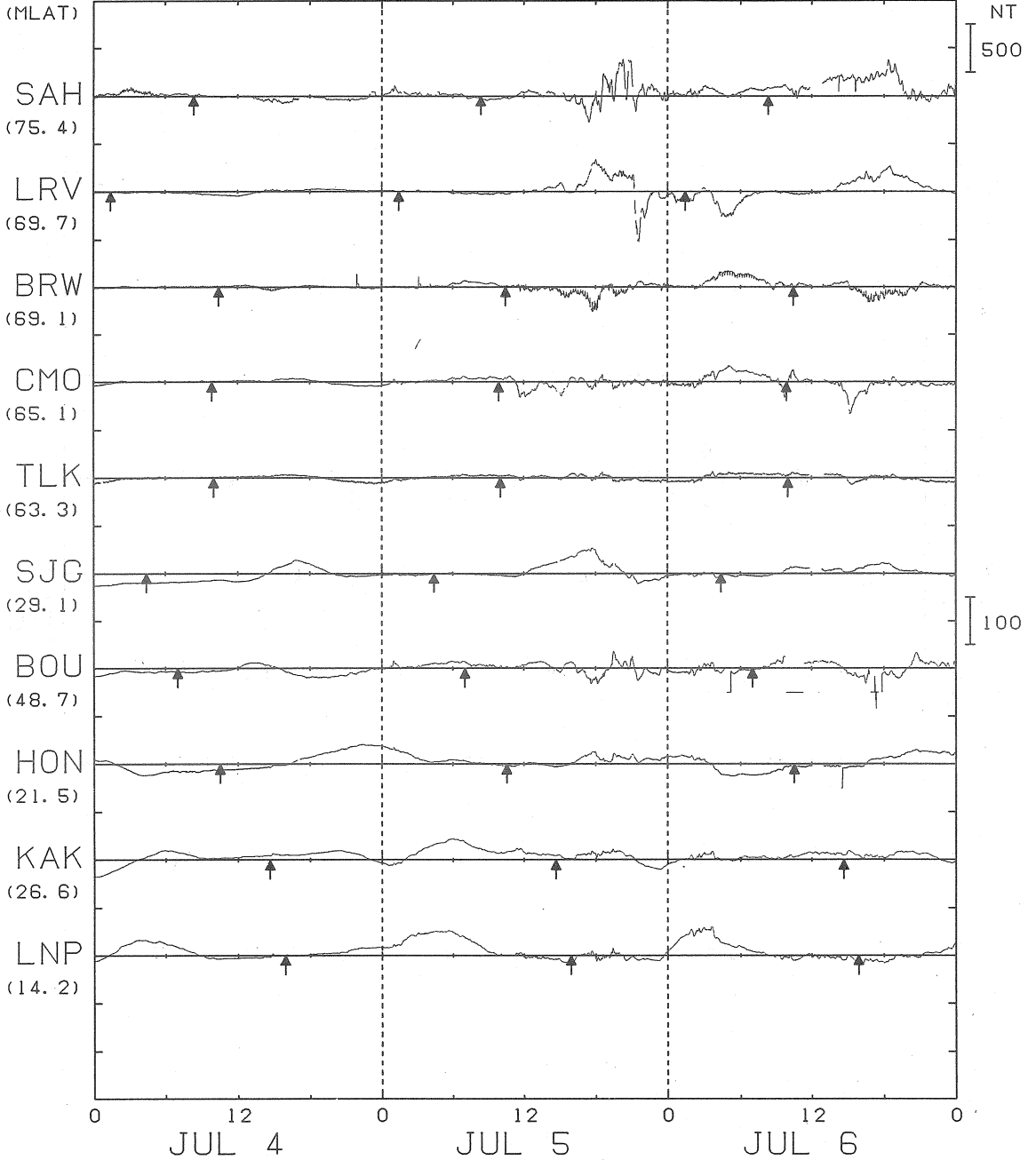
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



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

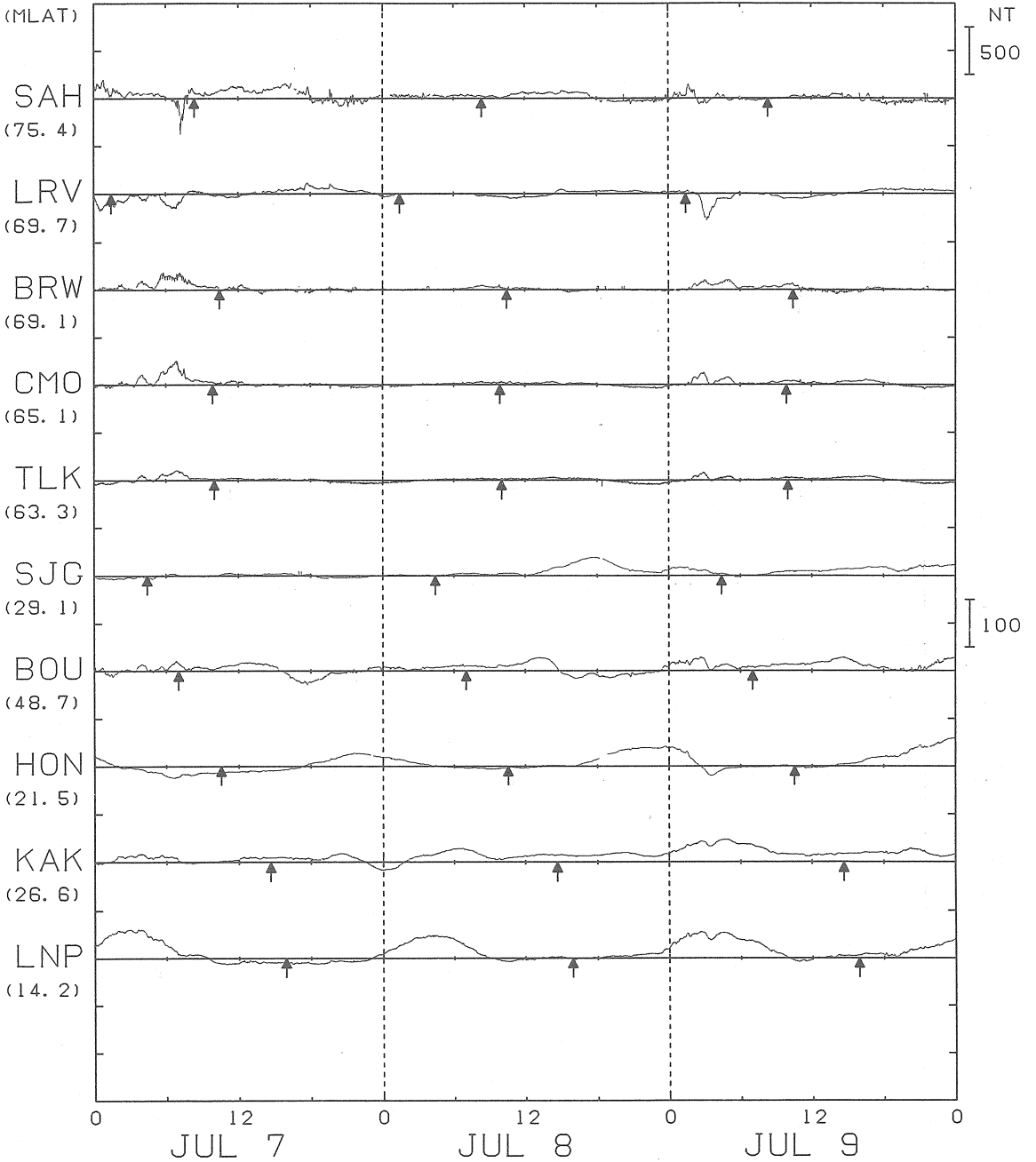
1989 H OR X-COMPONENT



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

1989 H OR X-COMPONENT

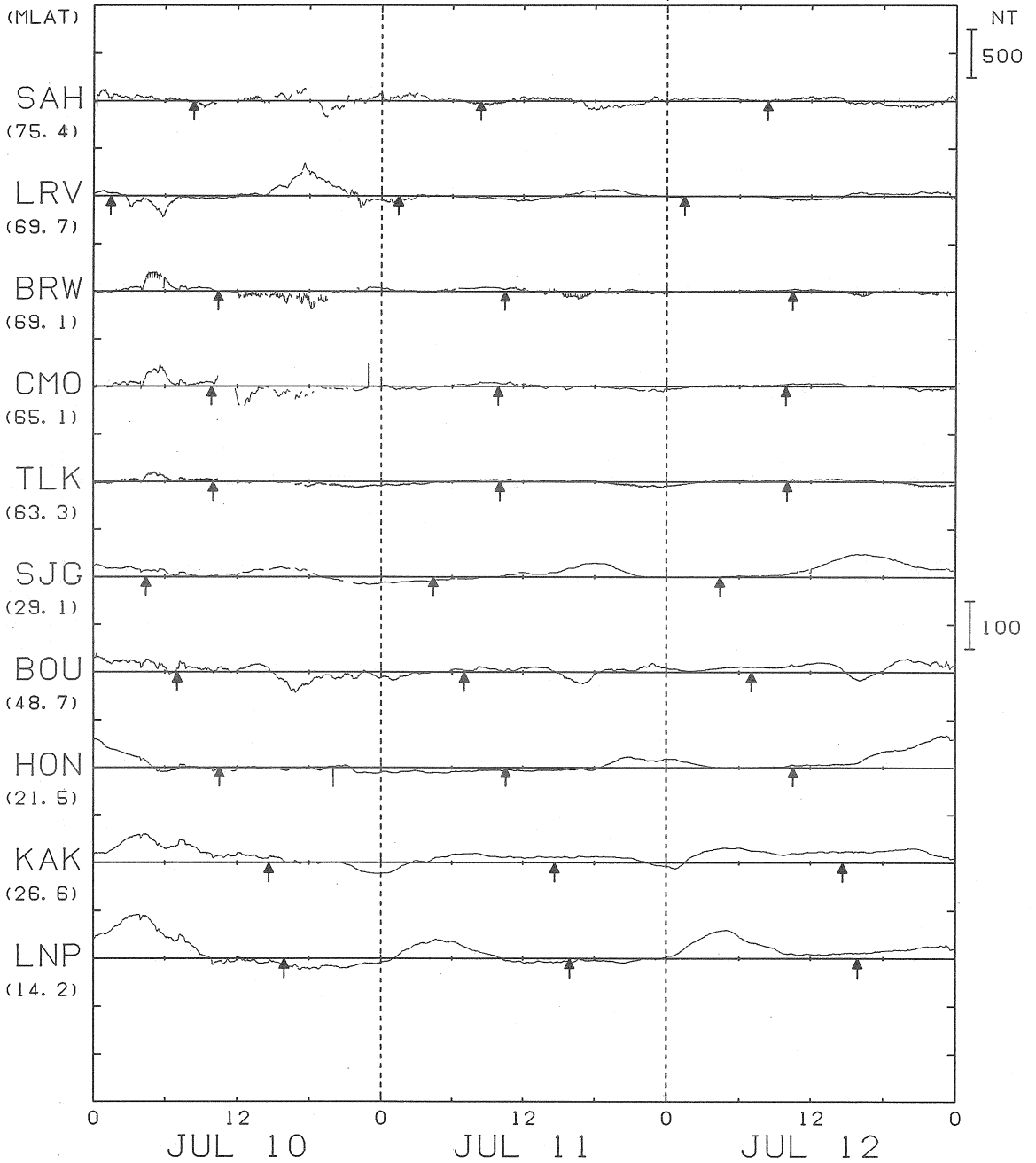
↑ : LOCAL MIDNIGHT



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

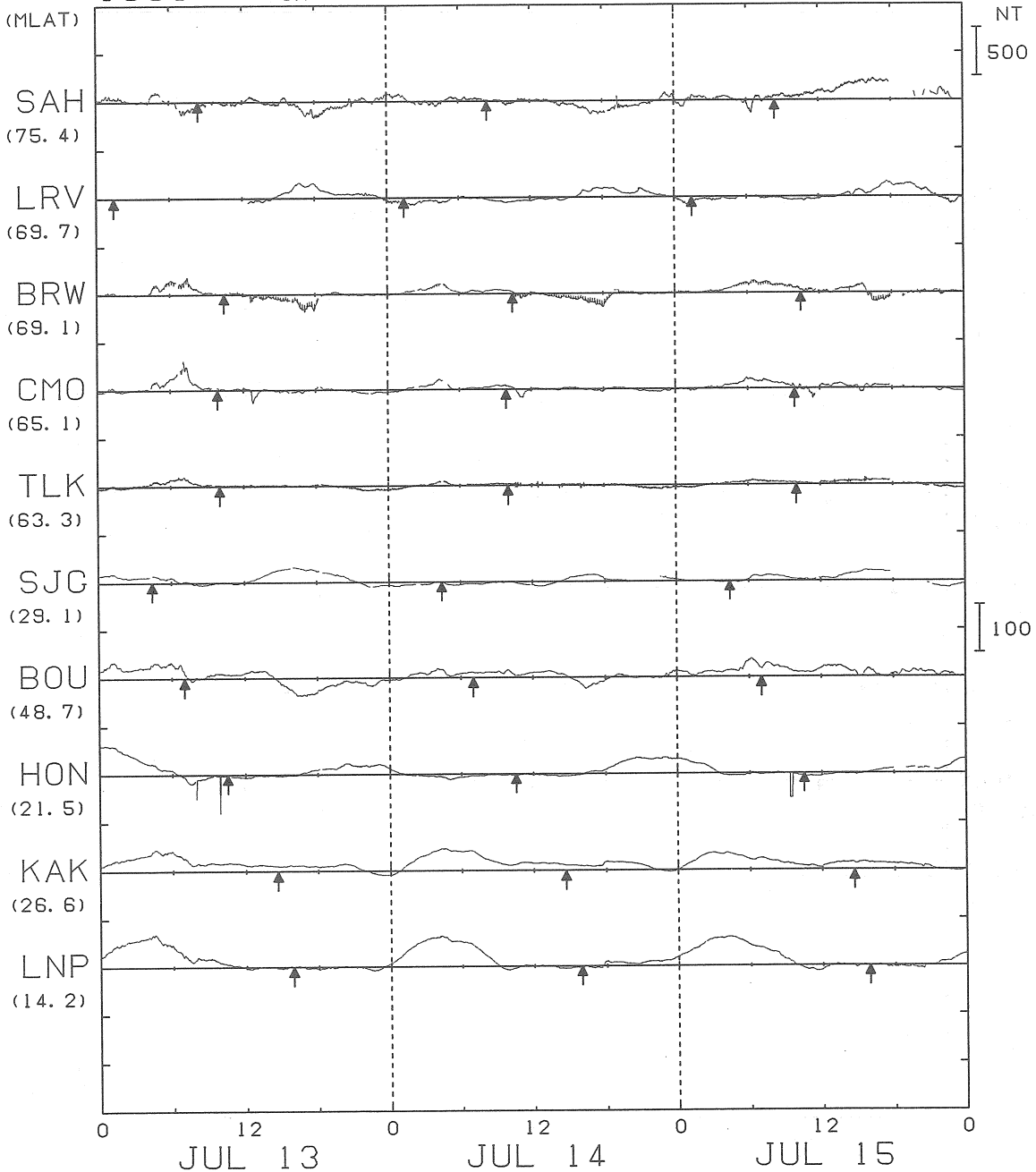
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



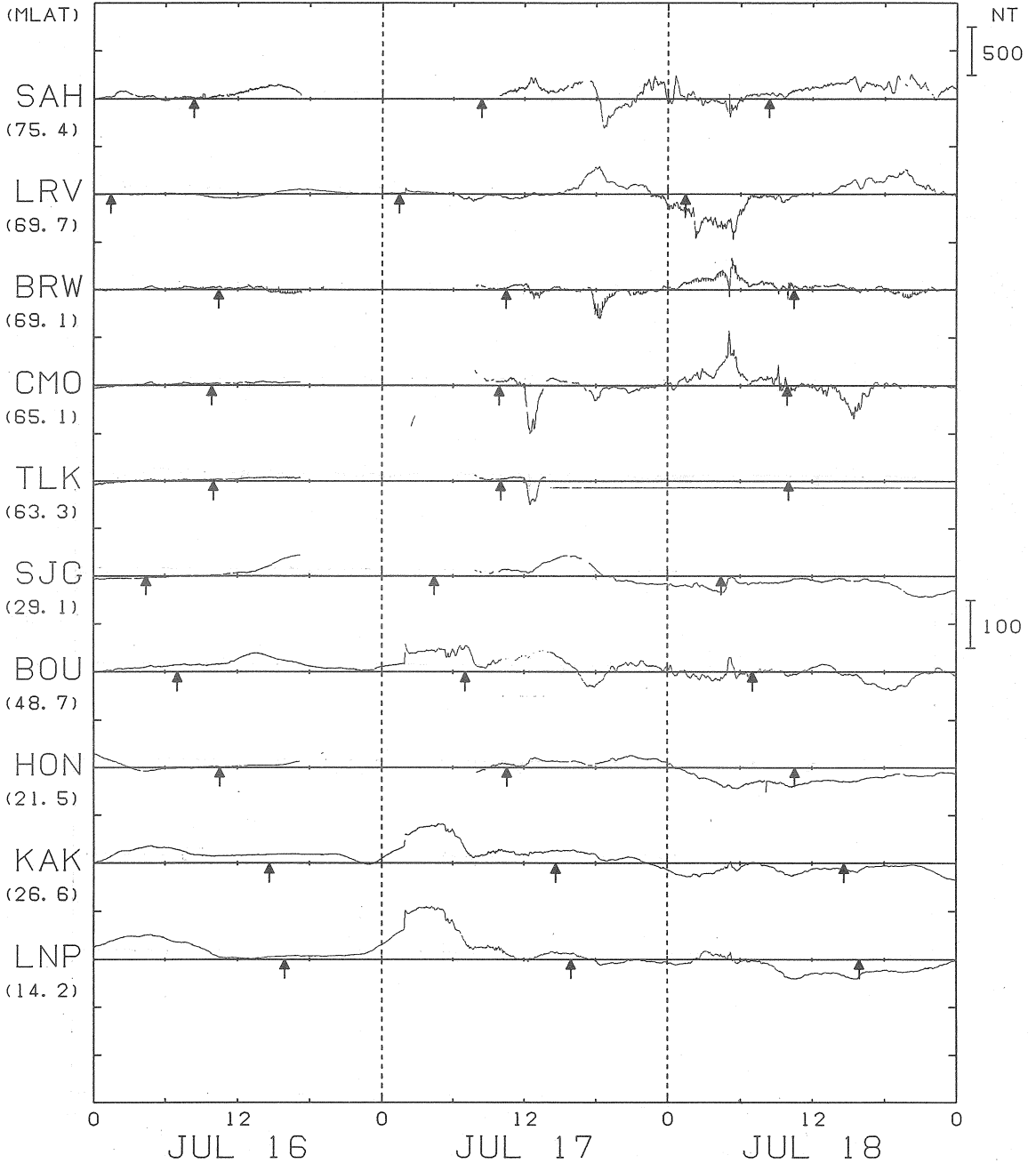
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



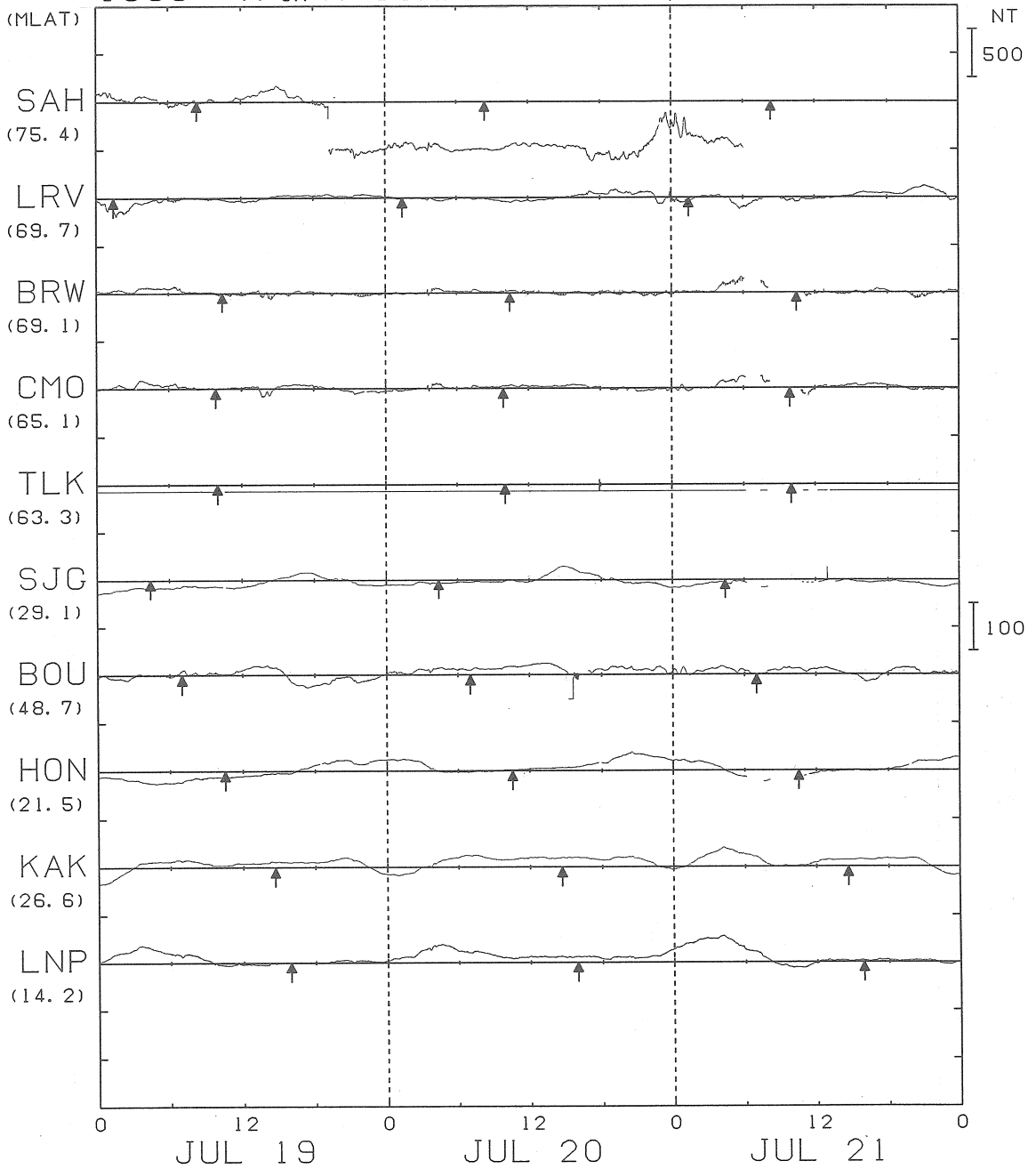
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



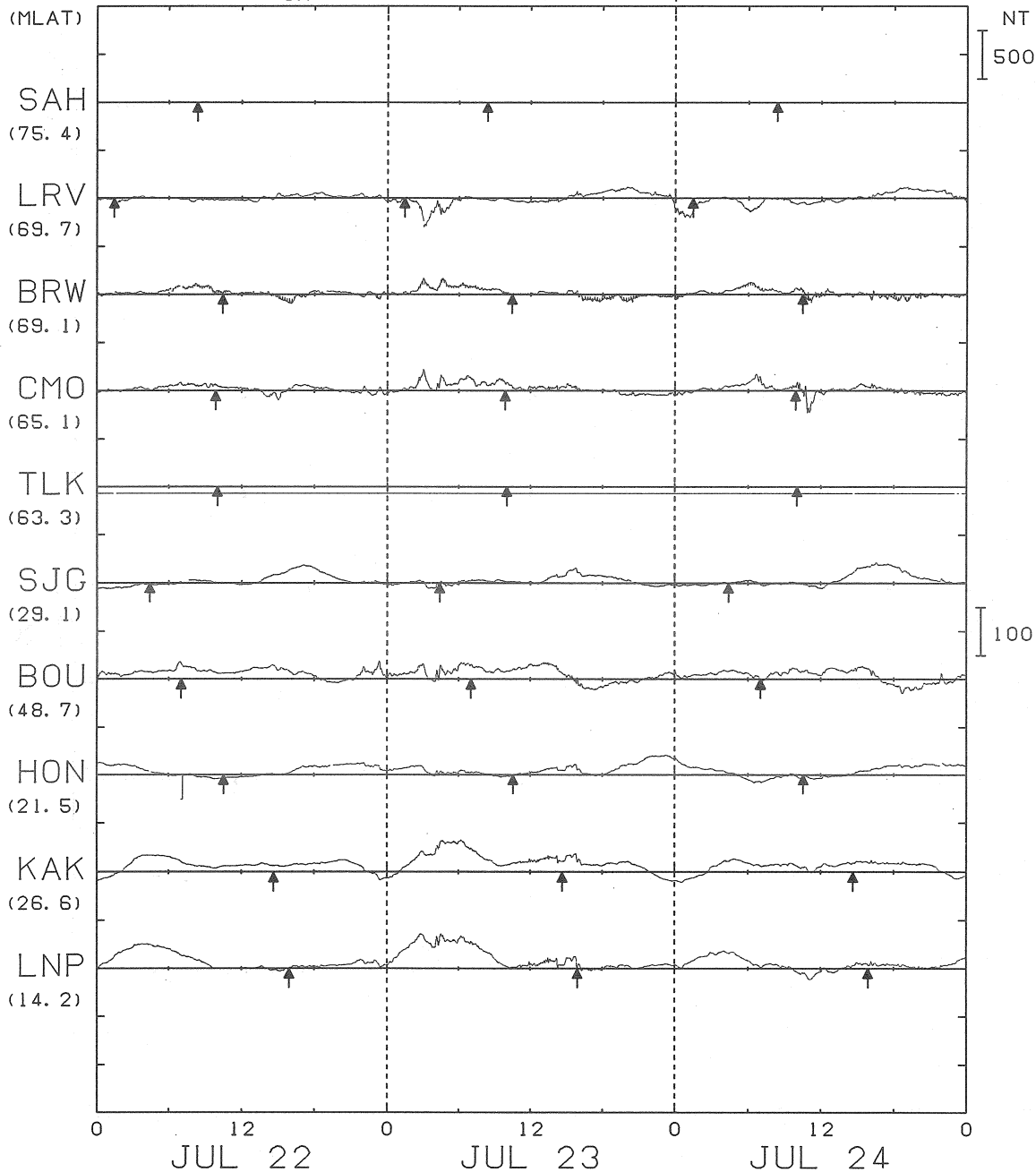
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

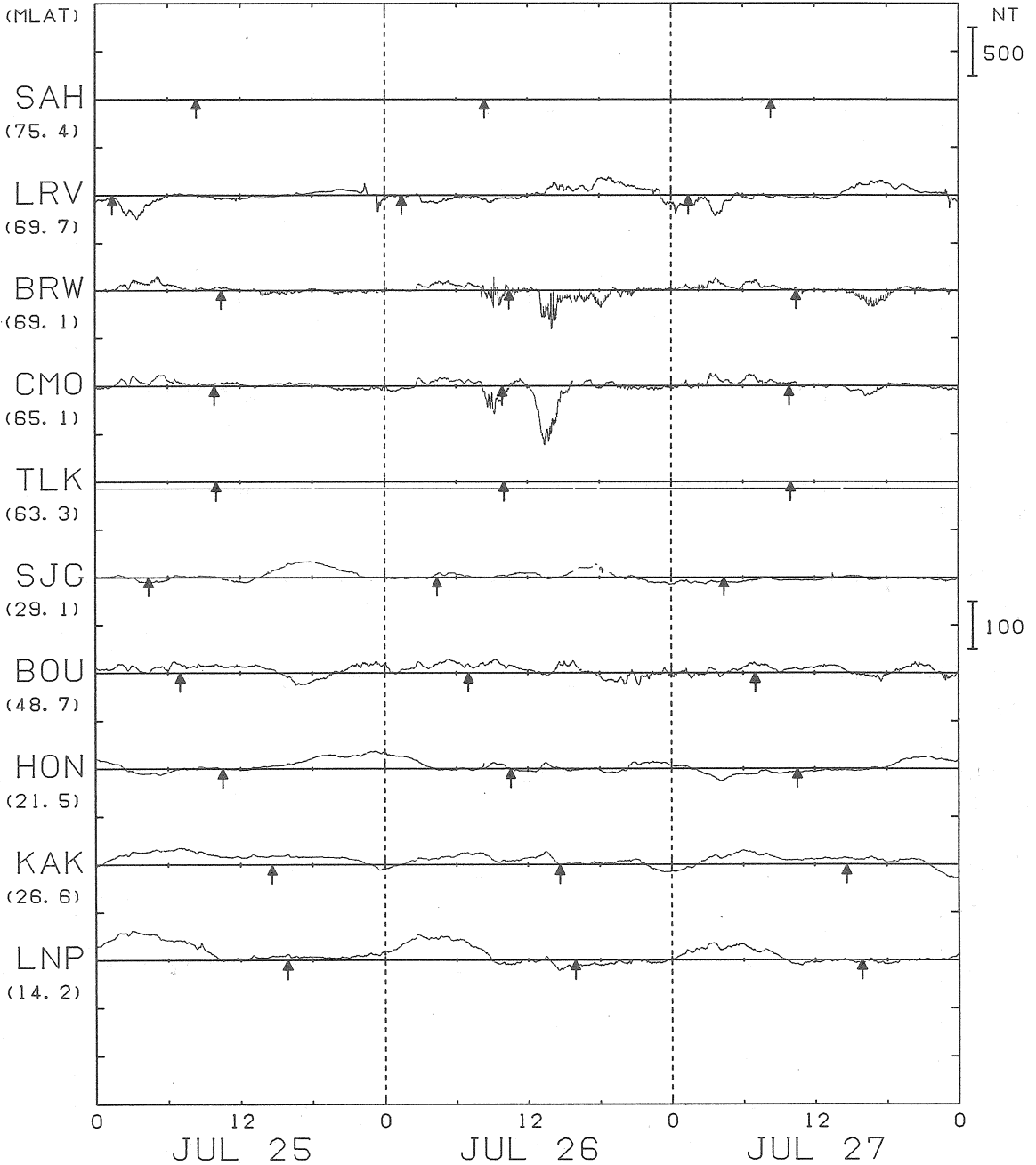
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

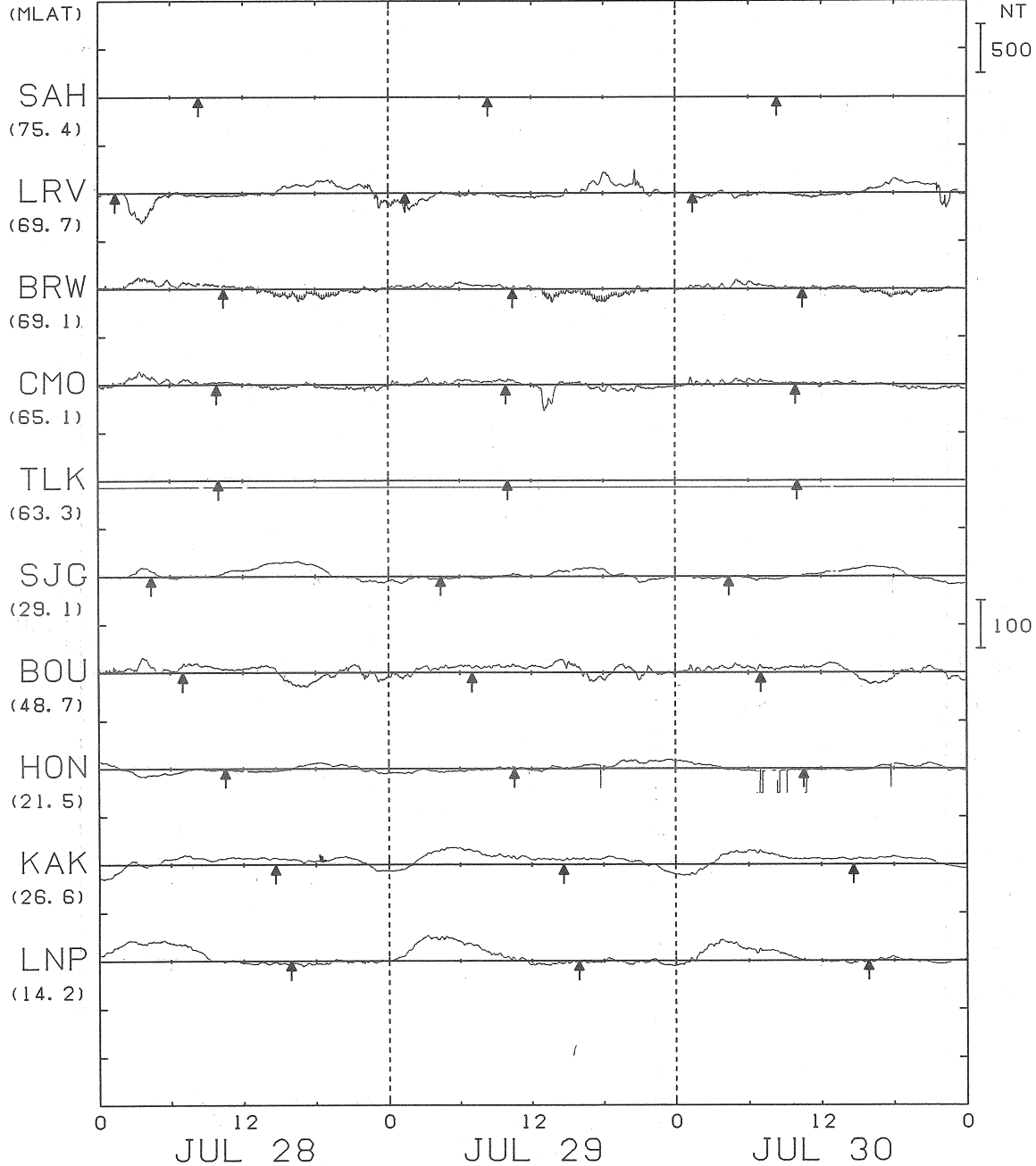
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



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

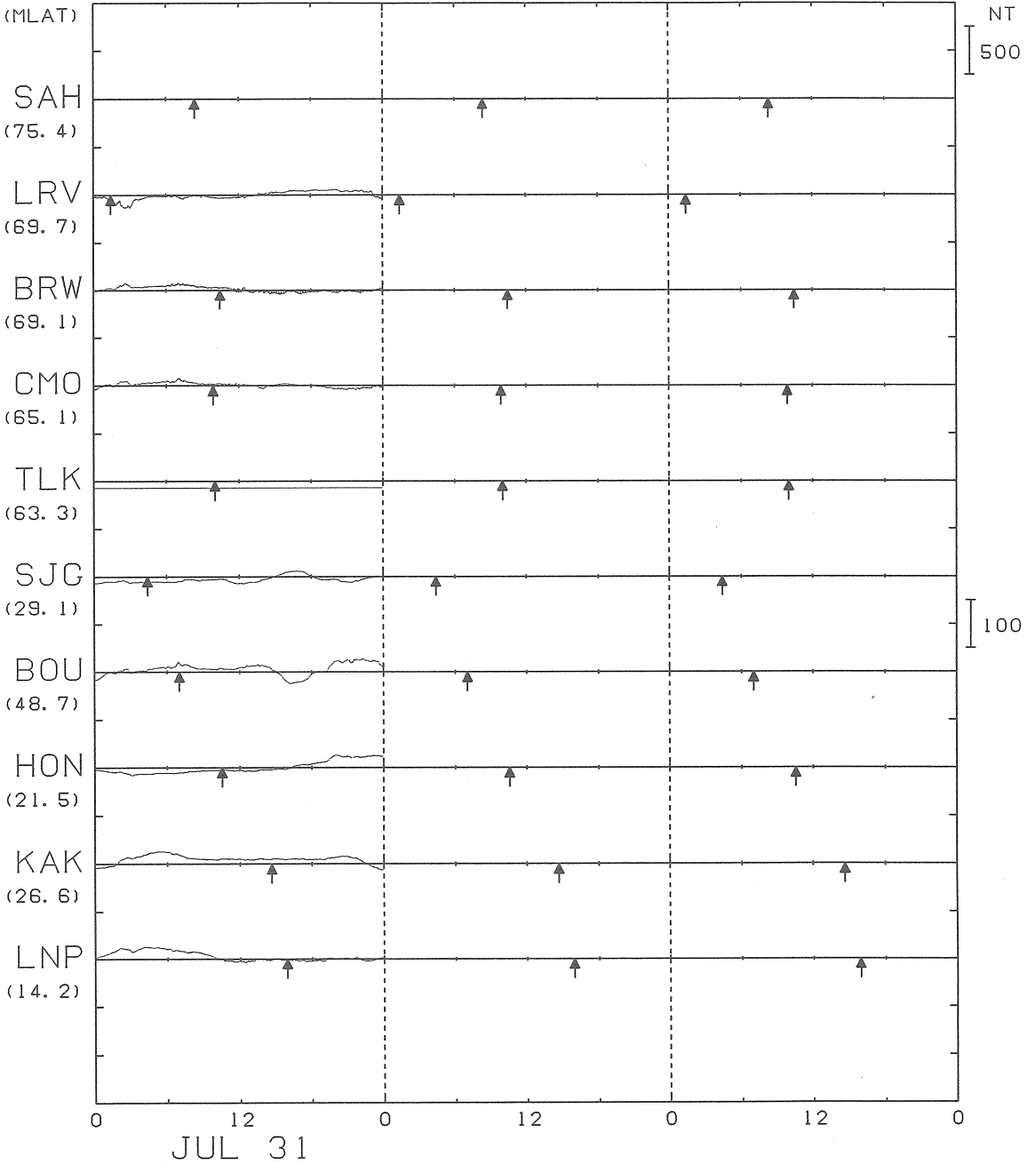
1989 H OR X-COMPONENT



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

1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



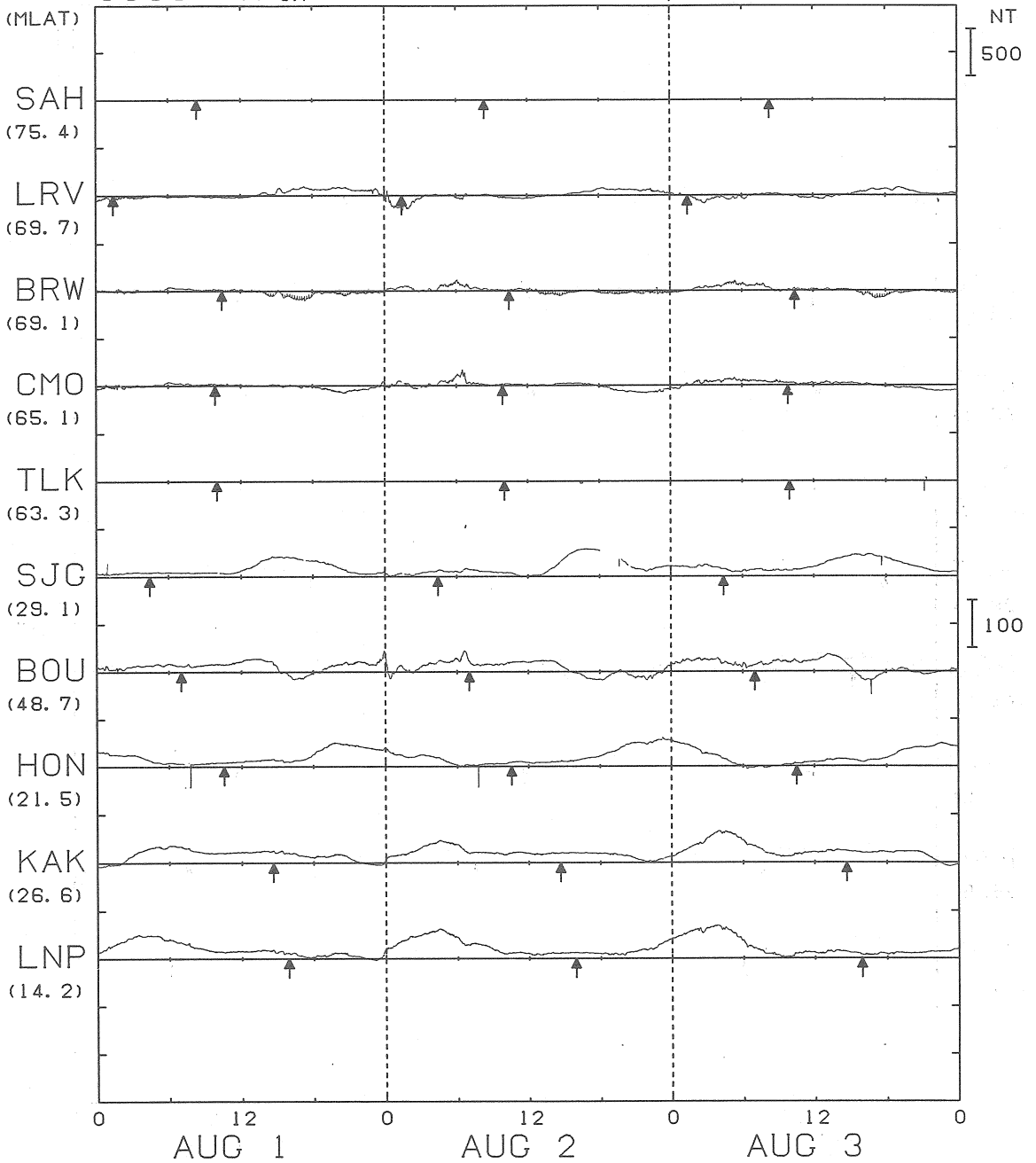
- * MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
- * PROMPT DATA INCLUDED
- * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

AUGUST 1989

(DAY 213 - 243)

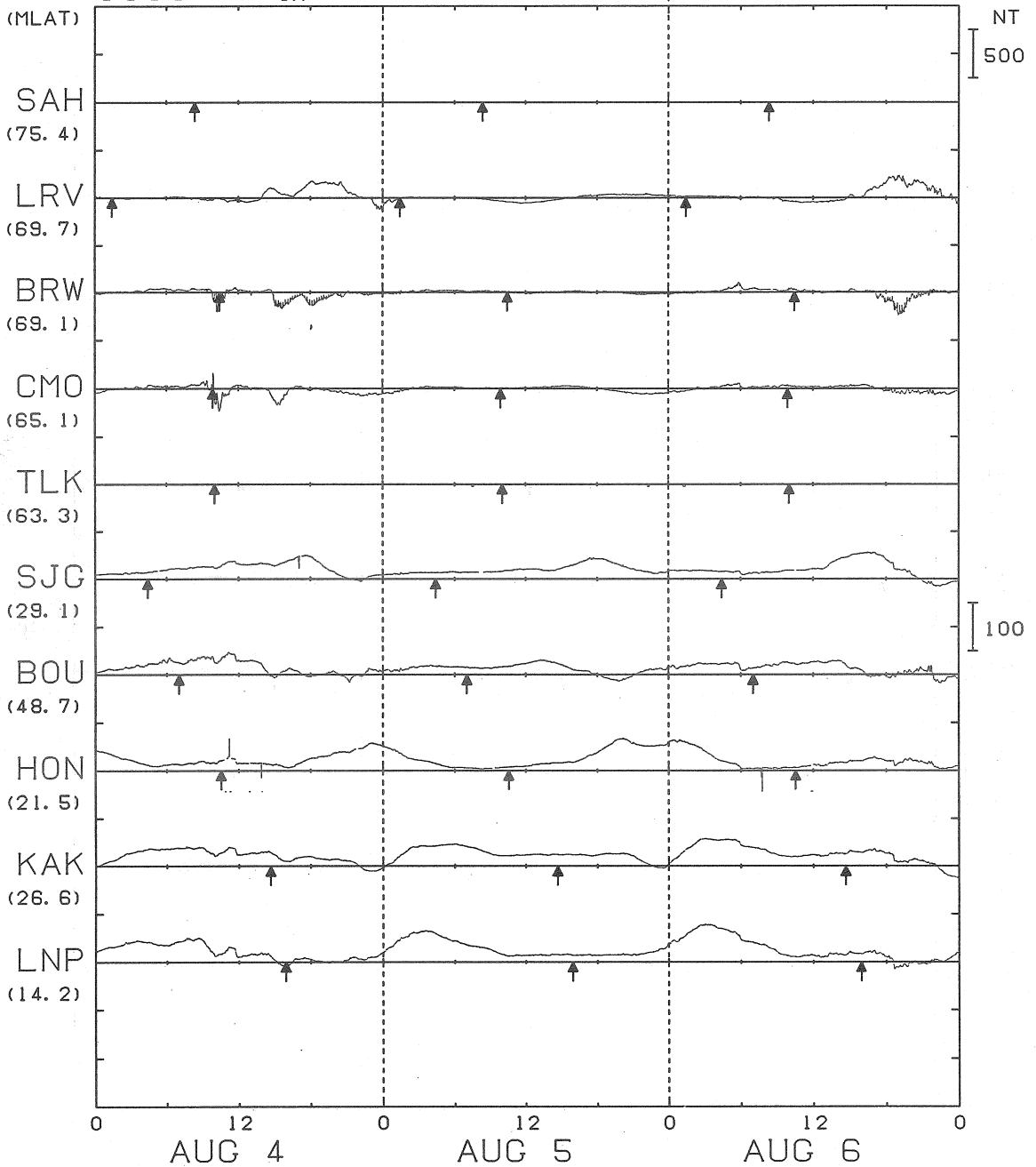
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



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

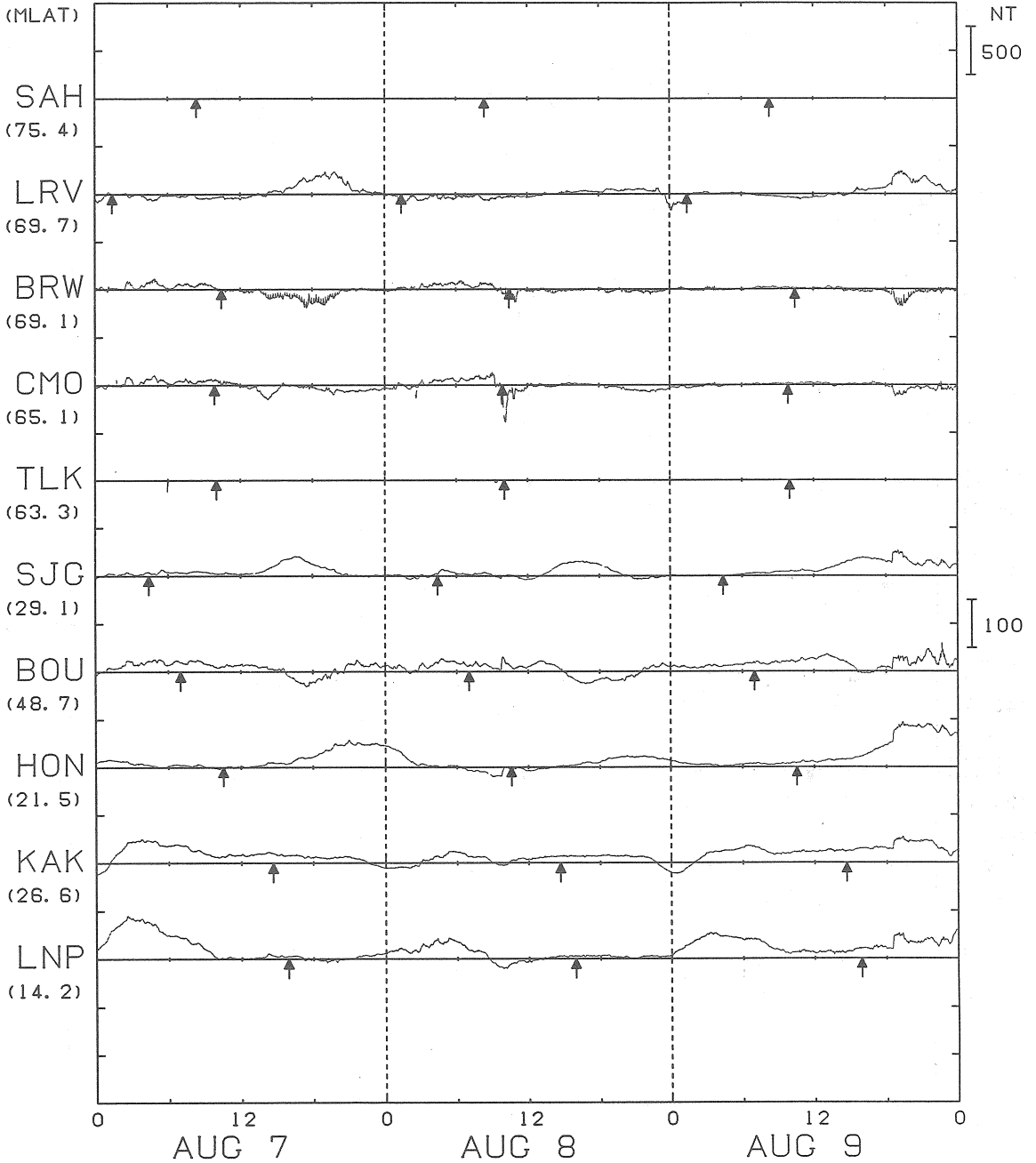
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

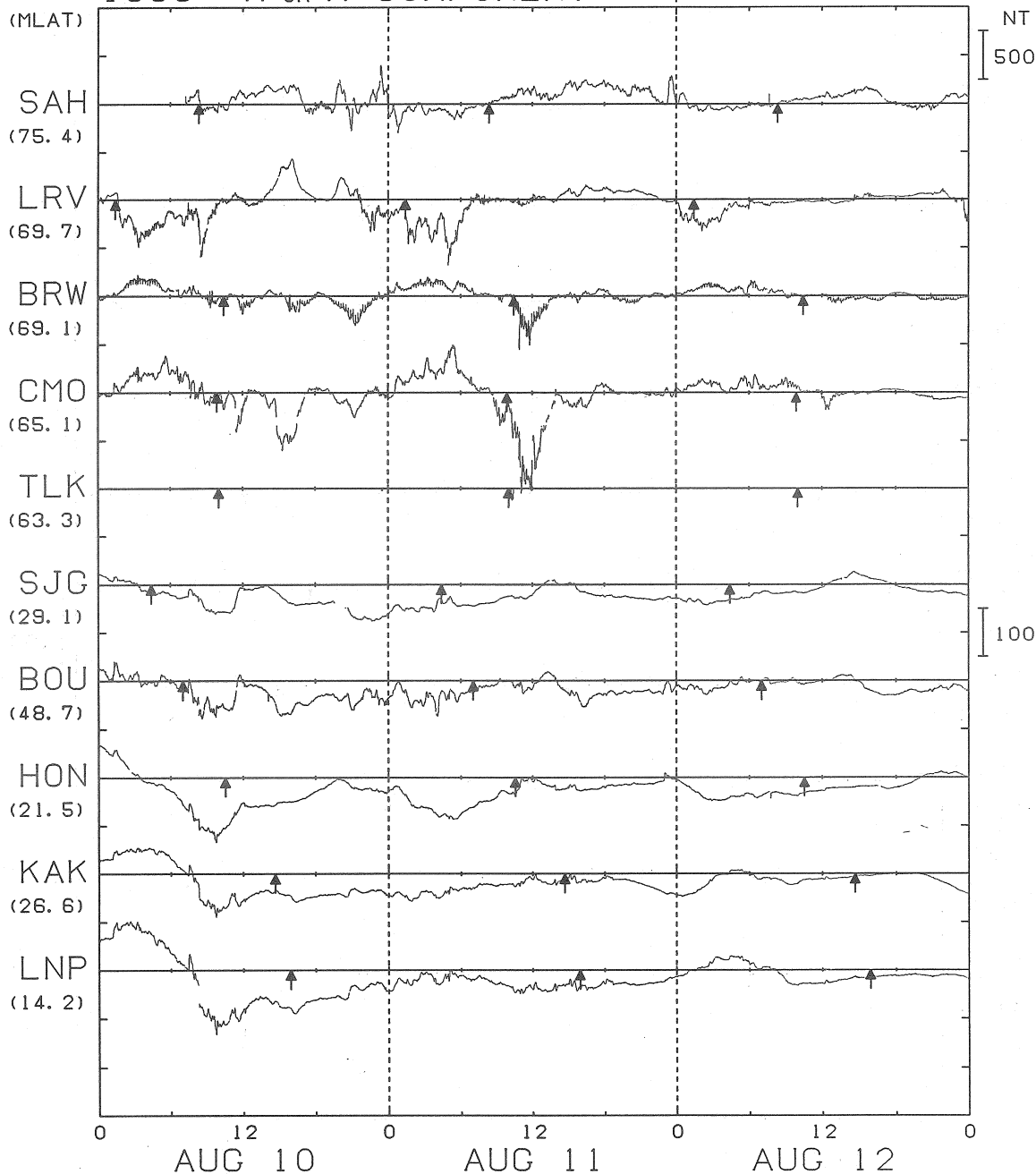
↑ : LOCAL MIDNIGHT



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

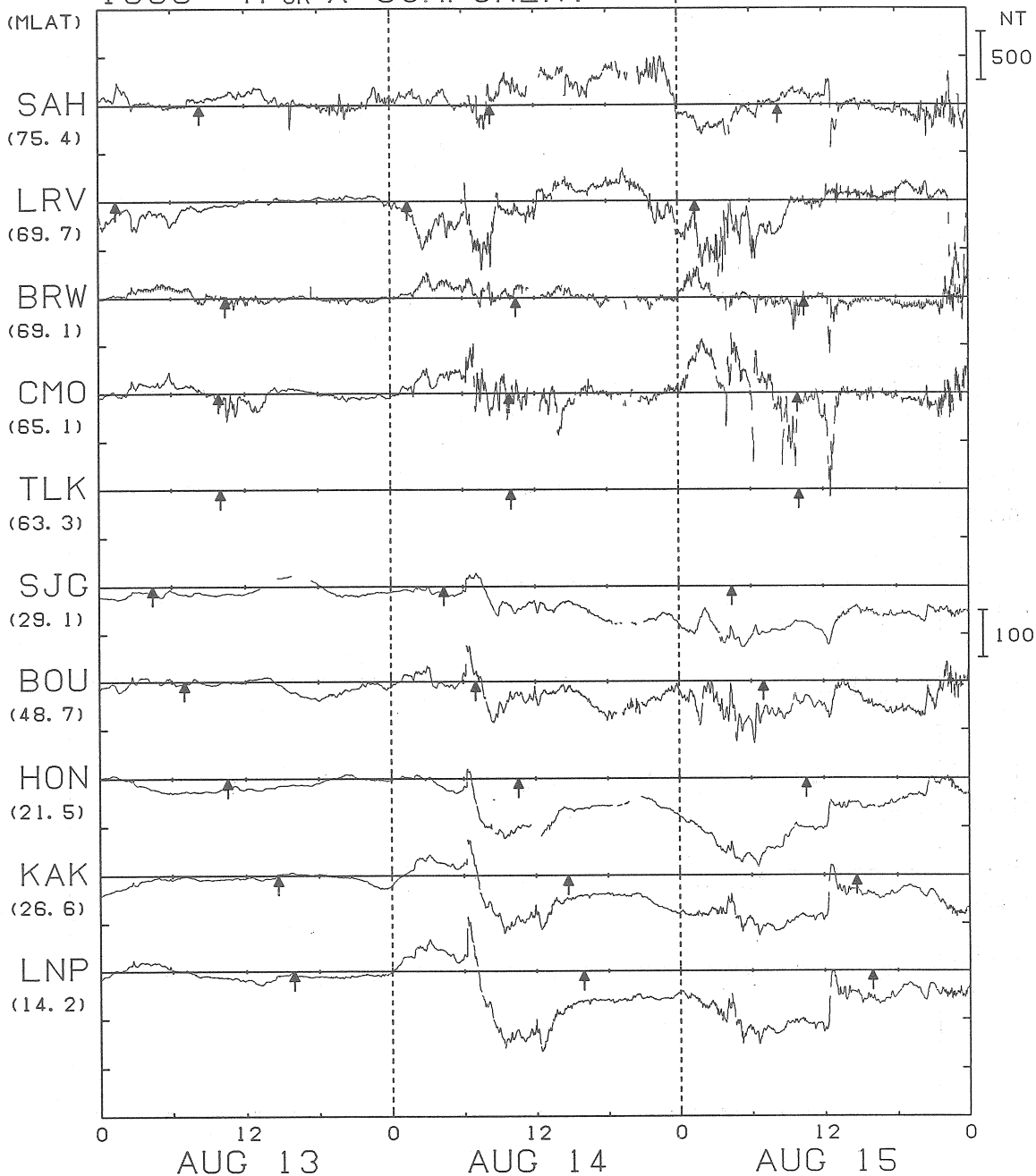
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



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

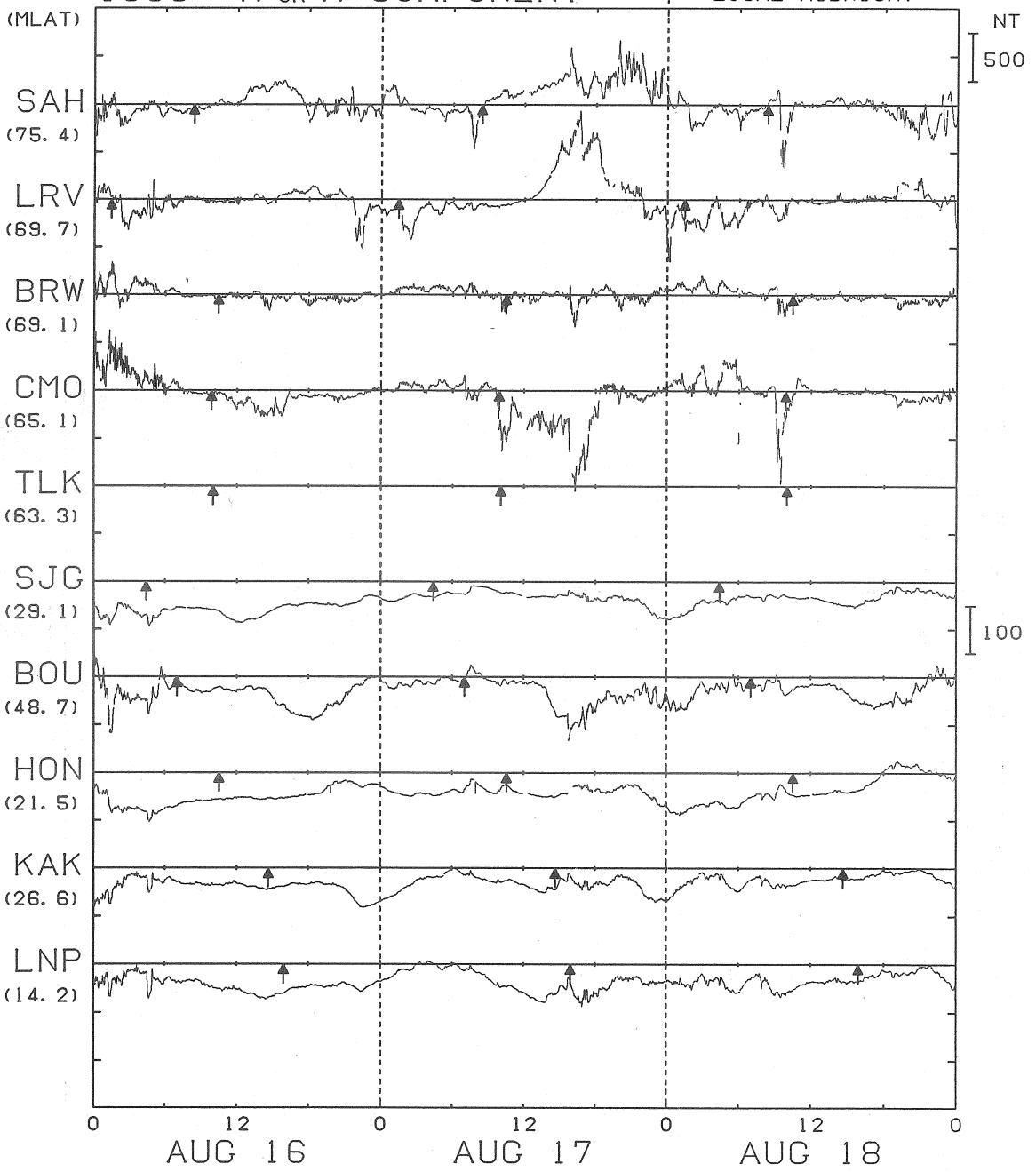
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

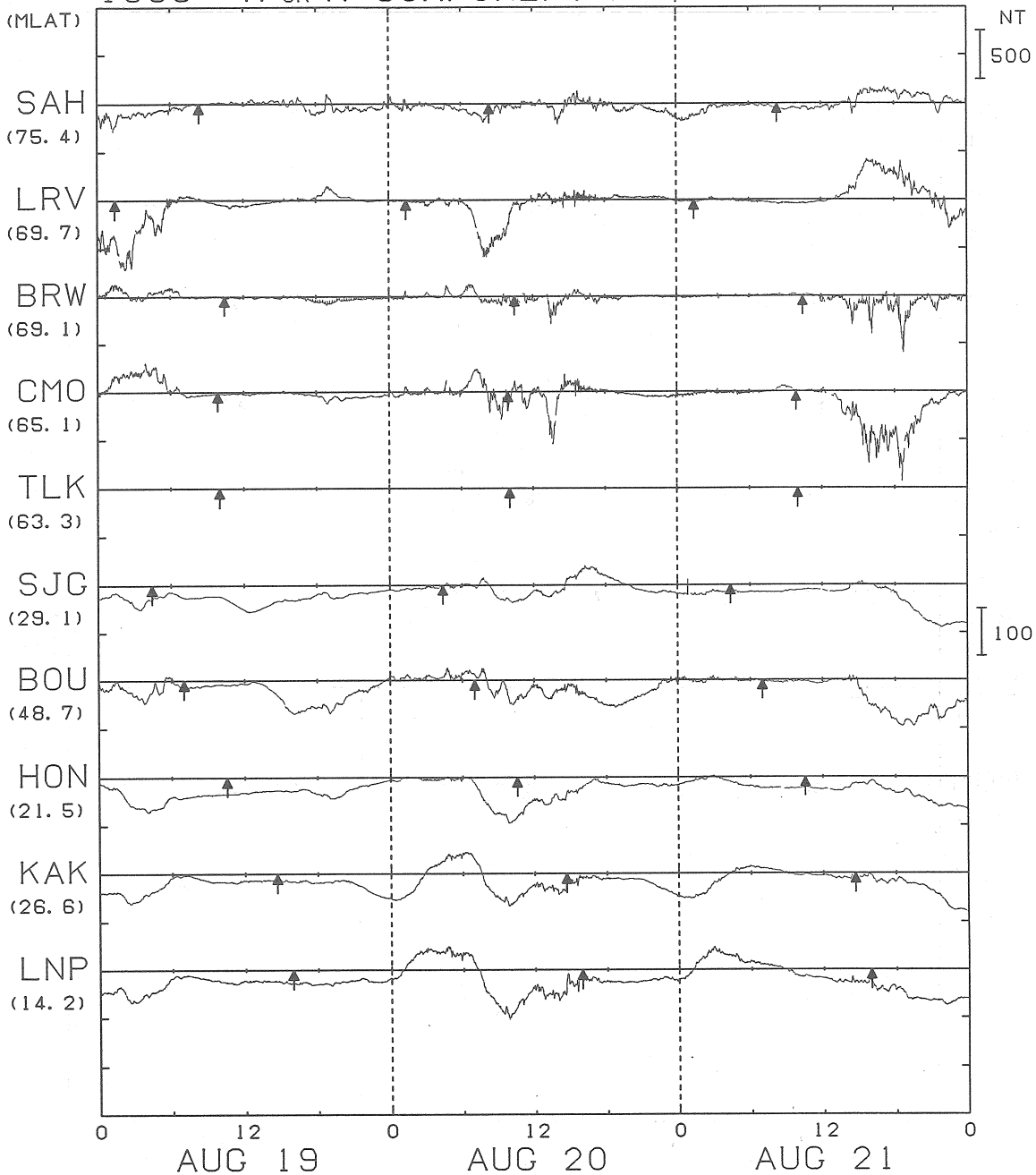
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



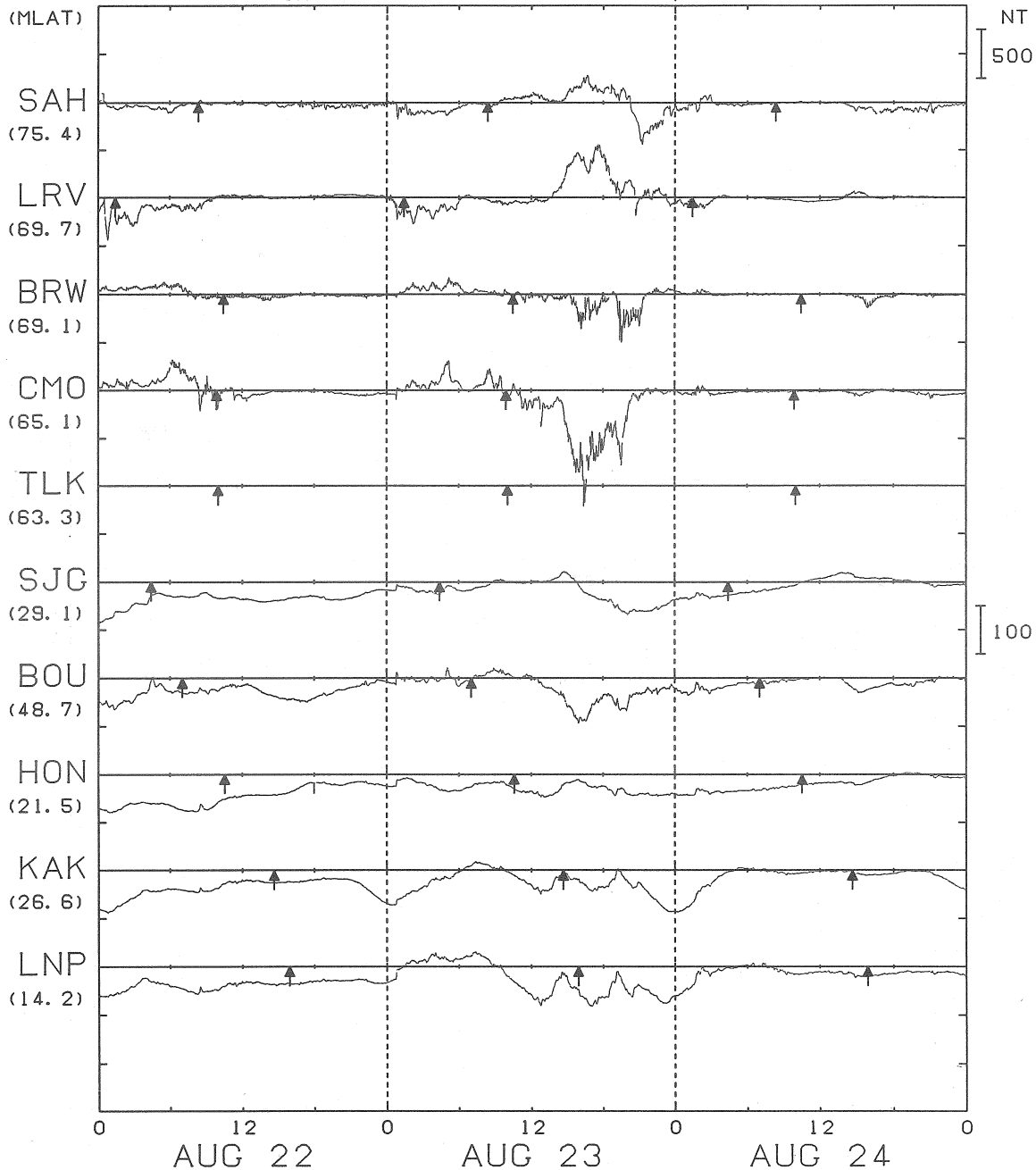
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT



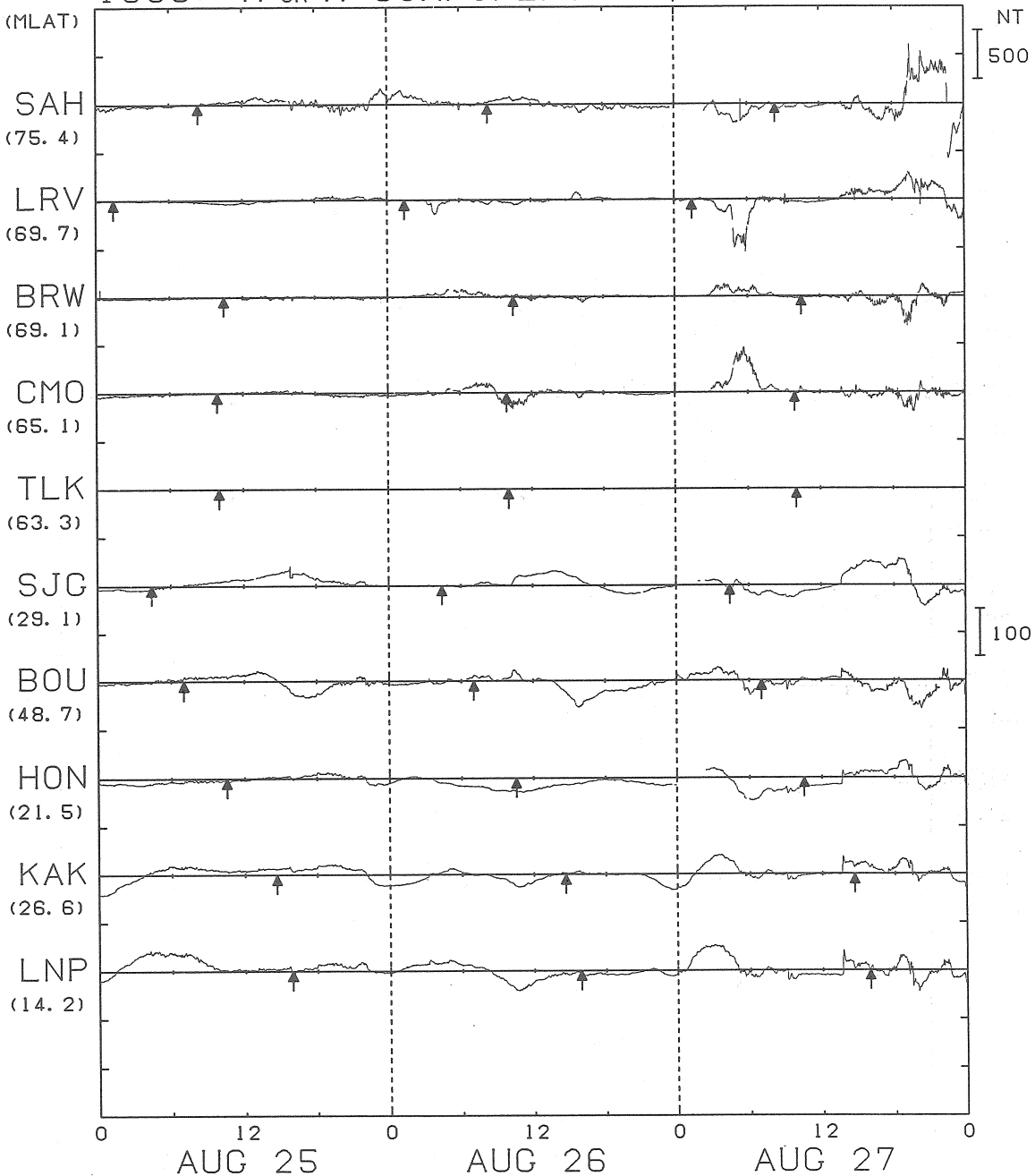
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



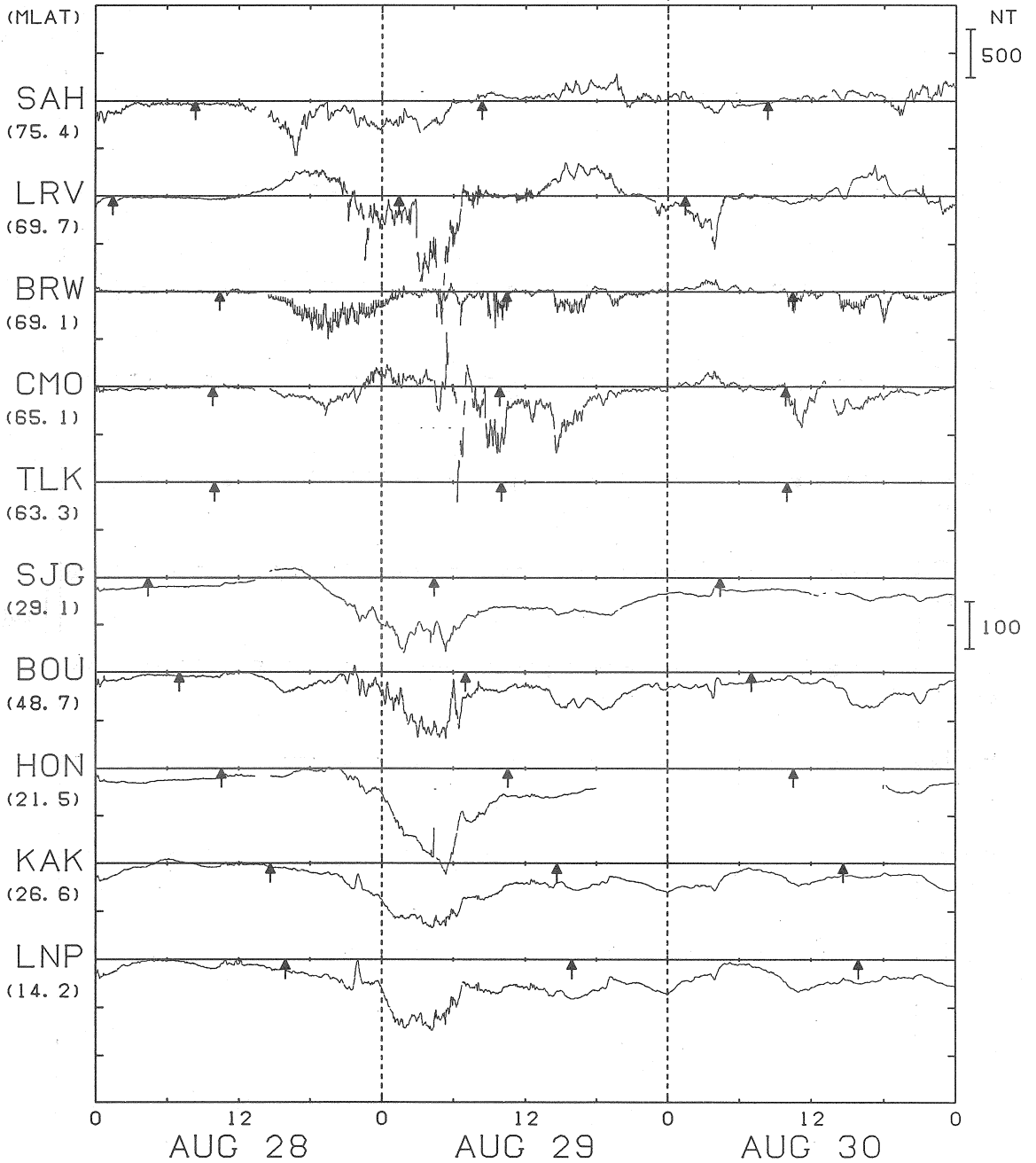
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT



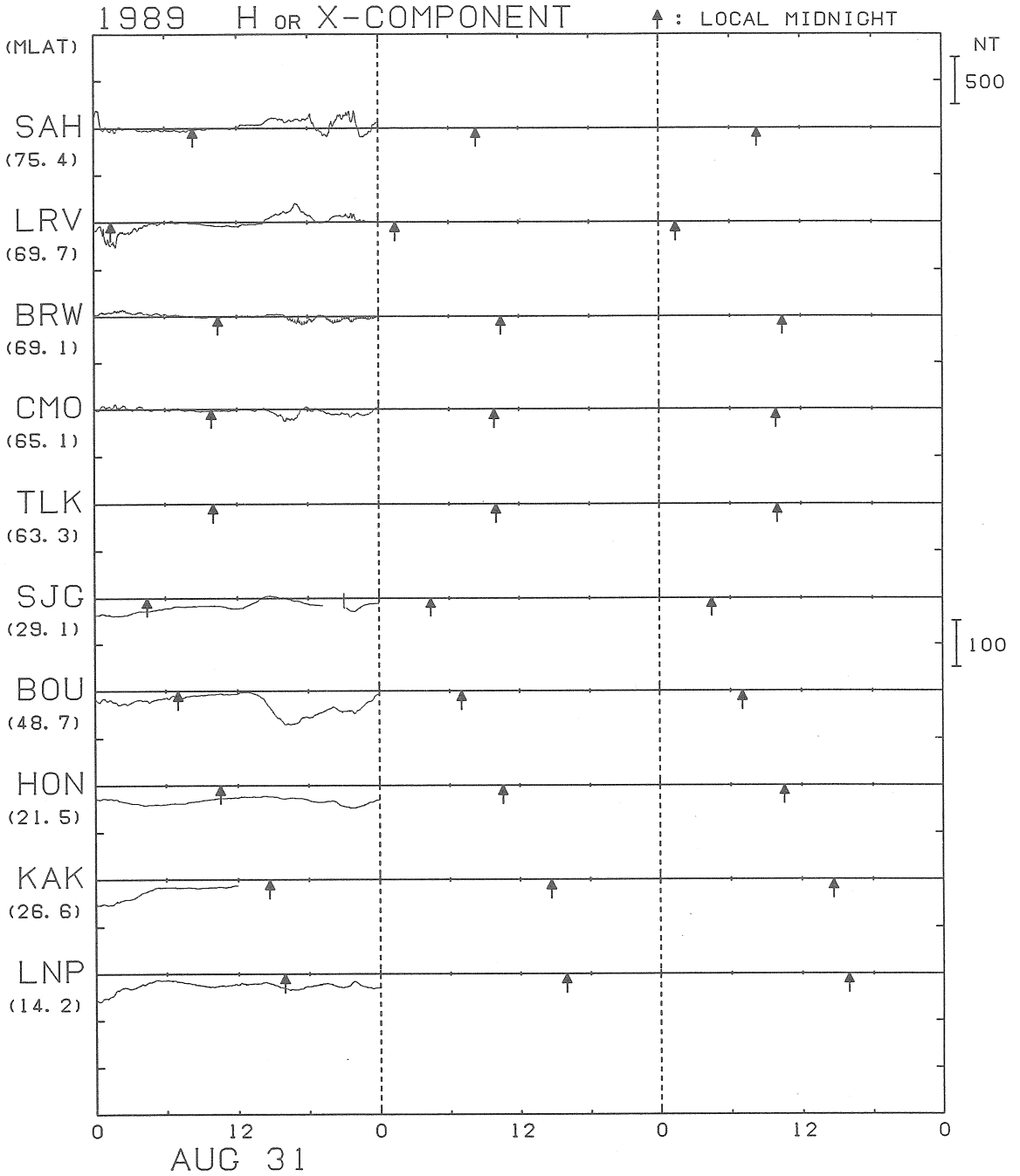
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT



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

1989 H OR X-COMPONENT



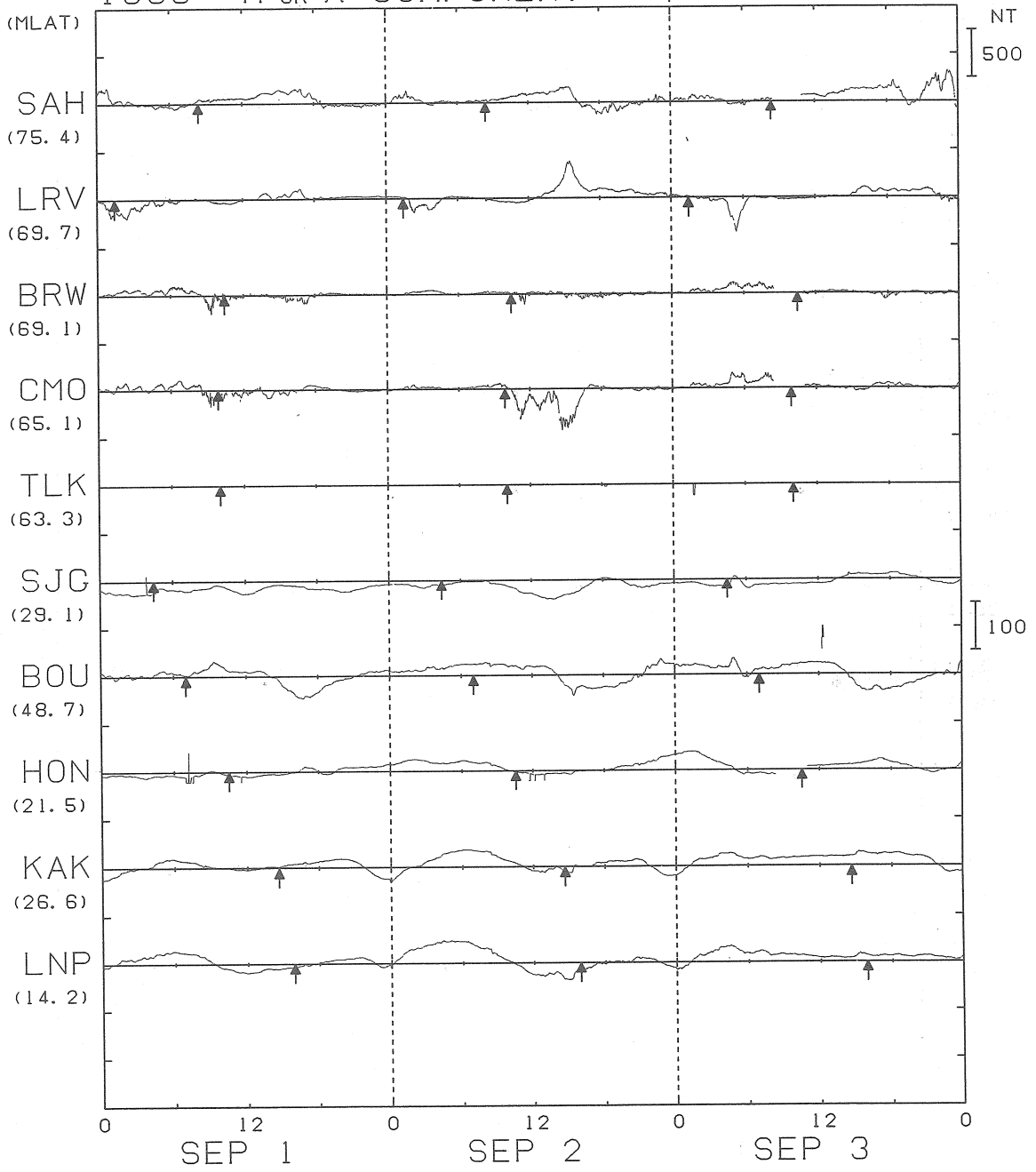
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

SEPTEMBER 1989

(DAY 244 - 273)

1989 H OR X-COMPONENT

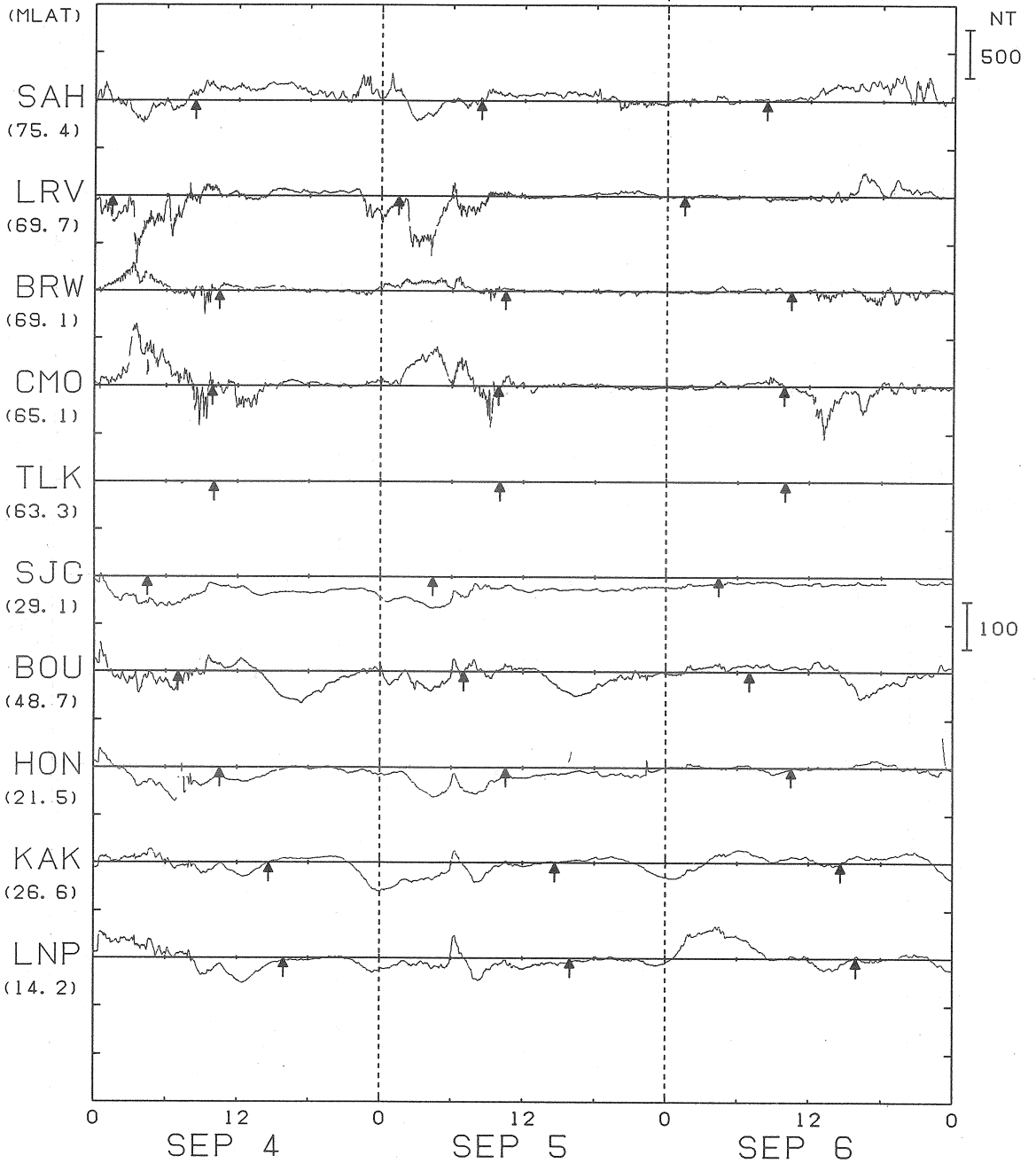
↑ : LOCAL MIDNIGHT



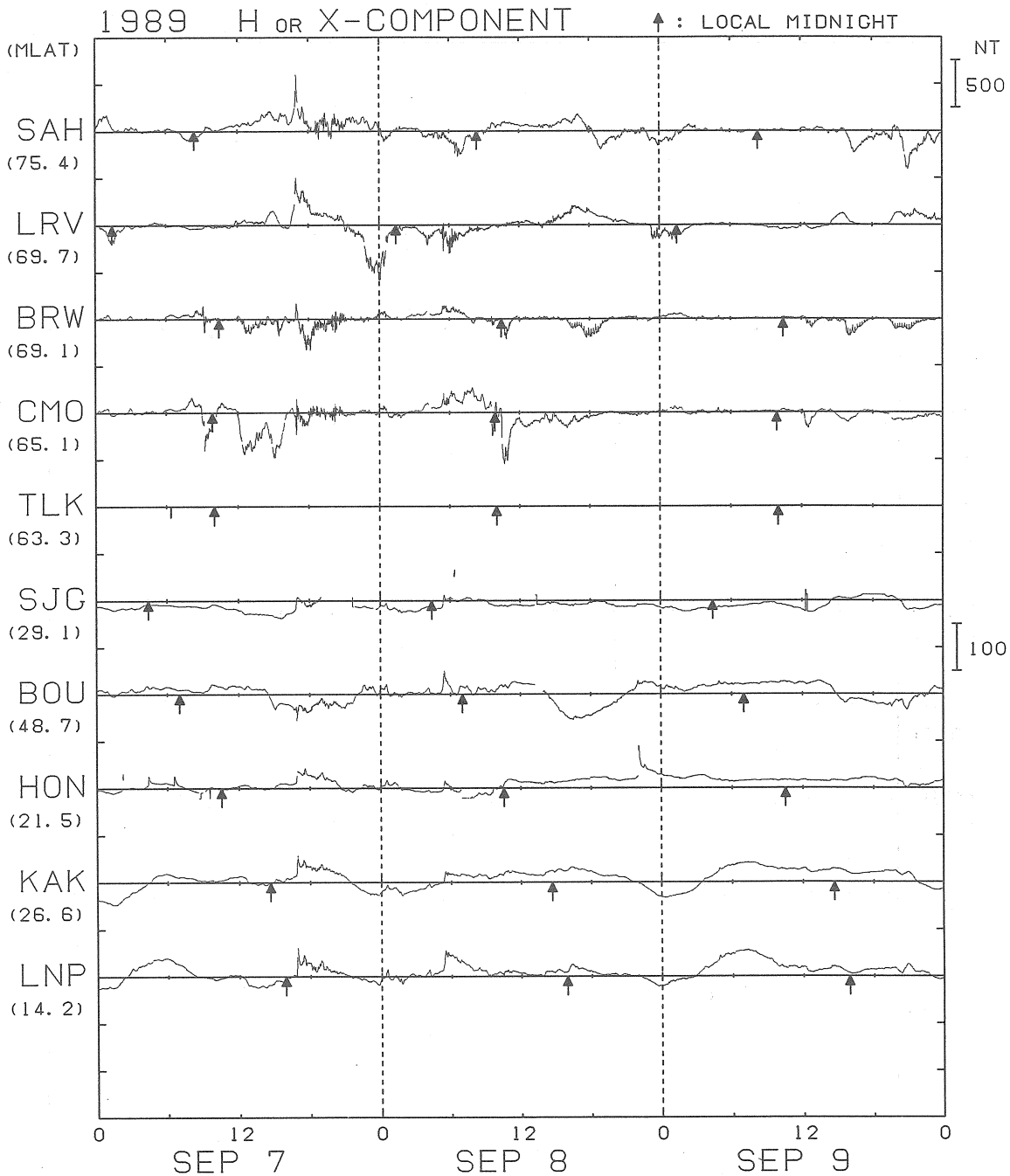
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT

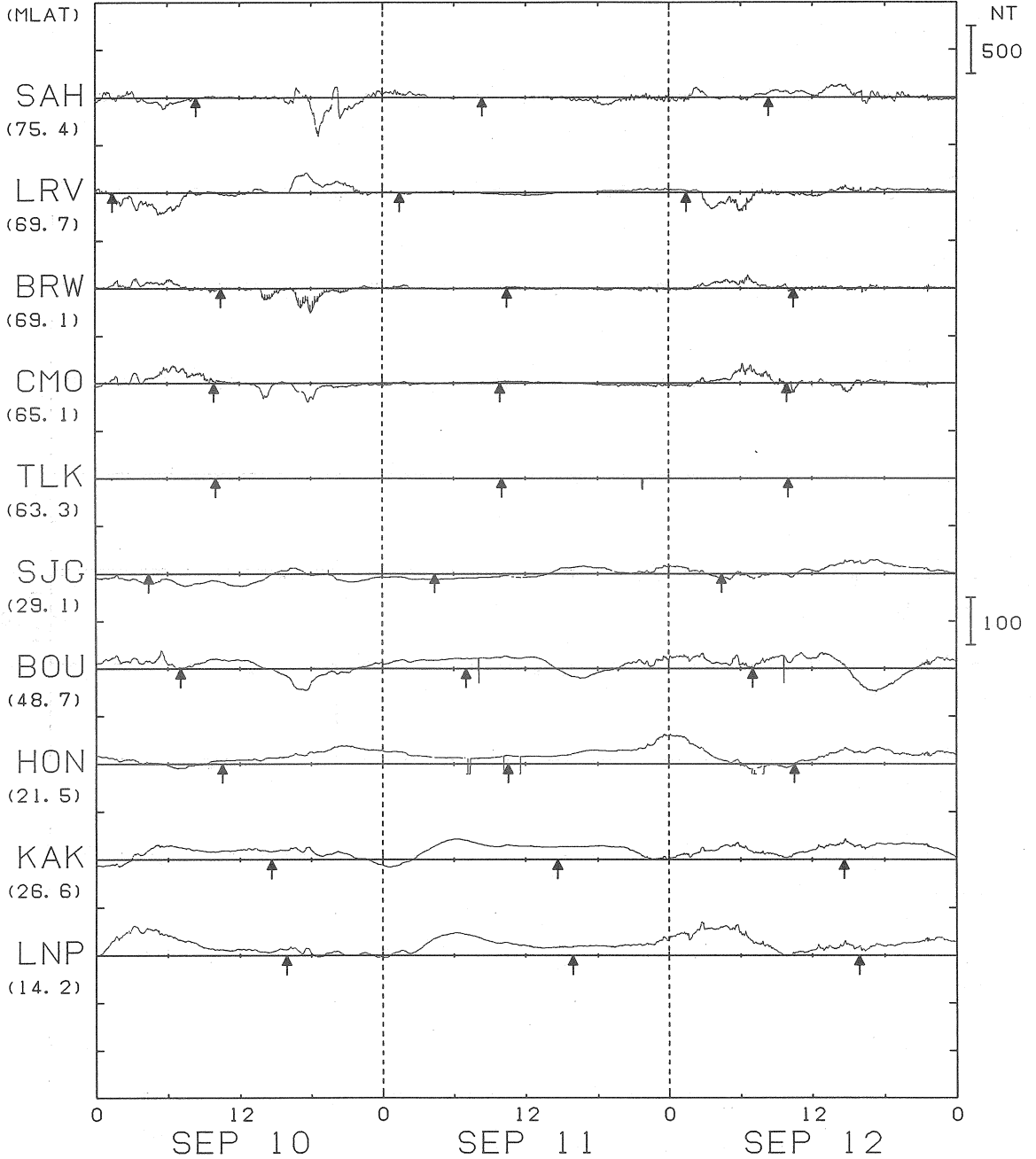


* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH.



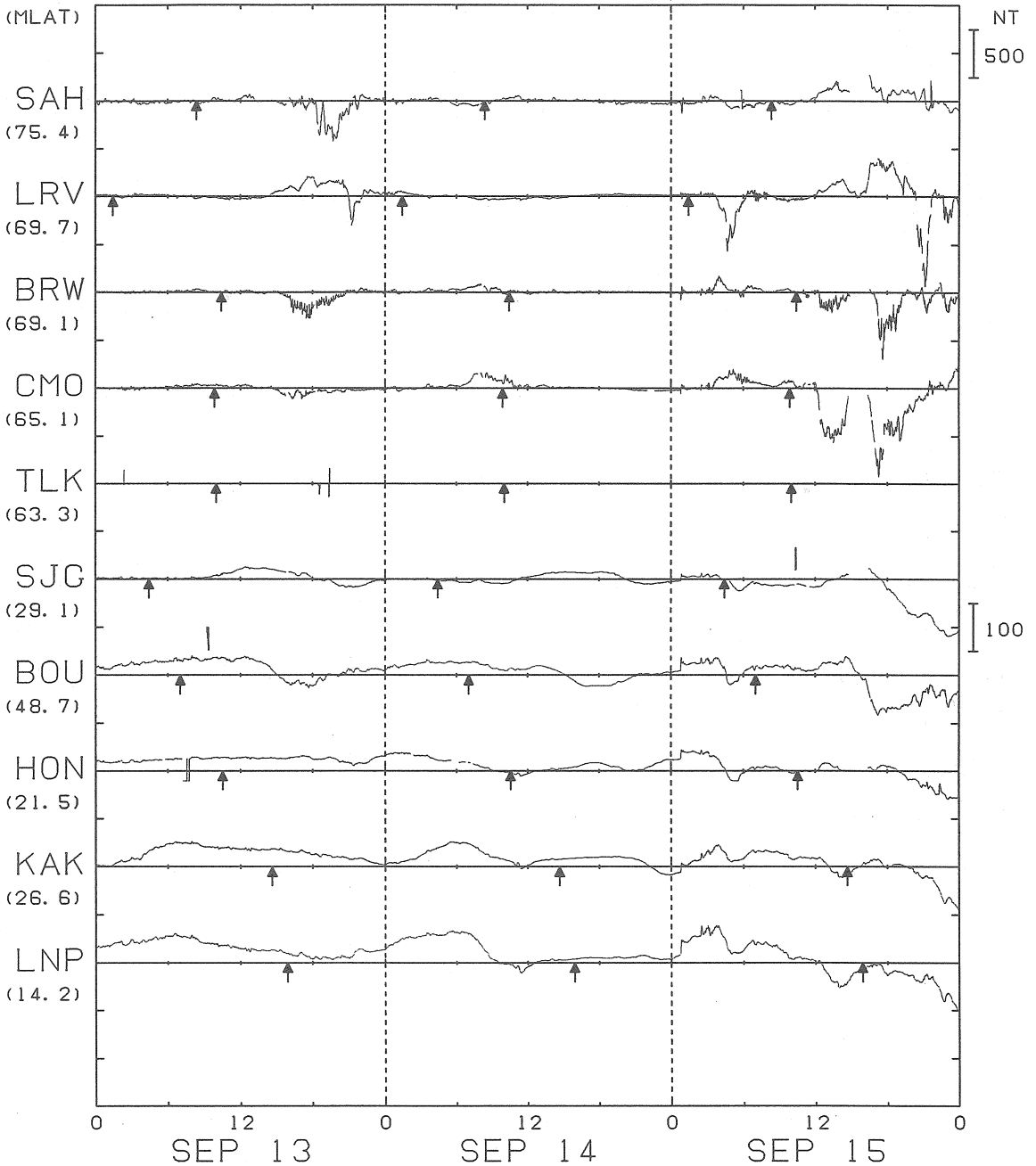
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



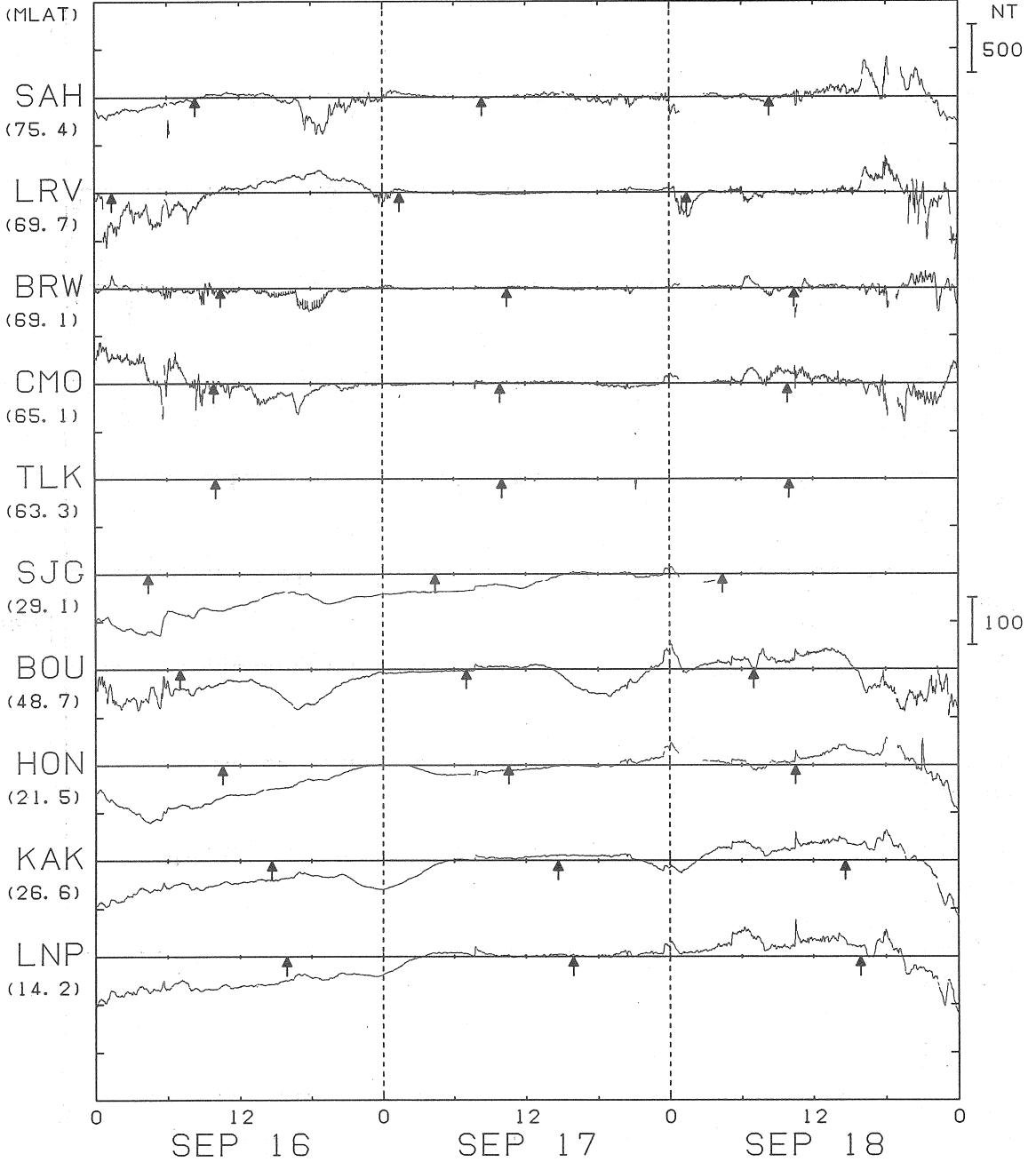
- * MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
- * PROMPT DATA INCLUDED
- * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT



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

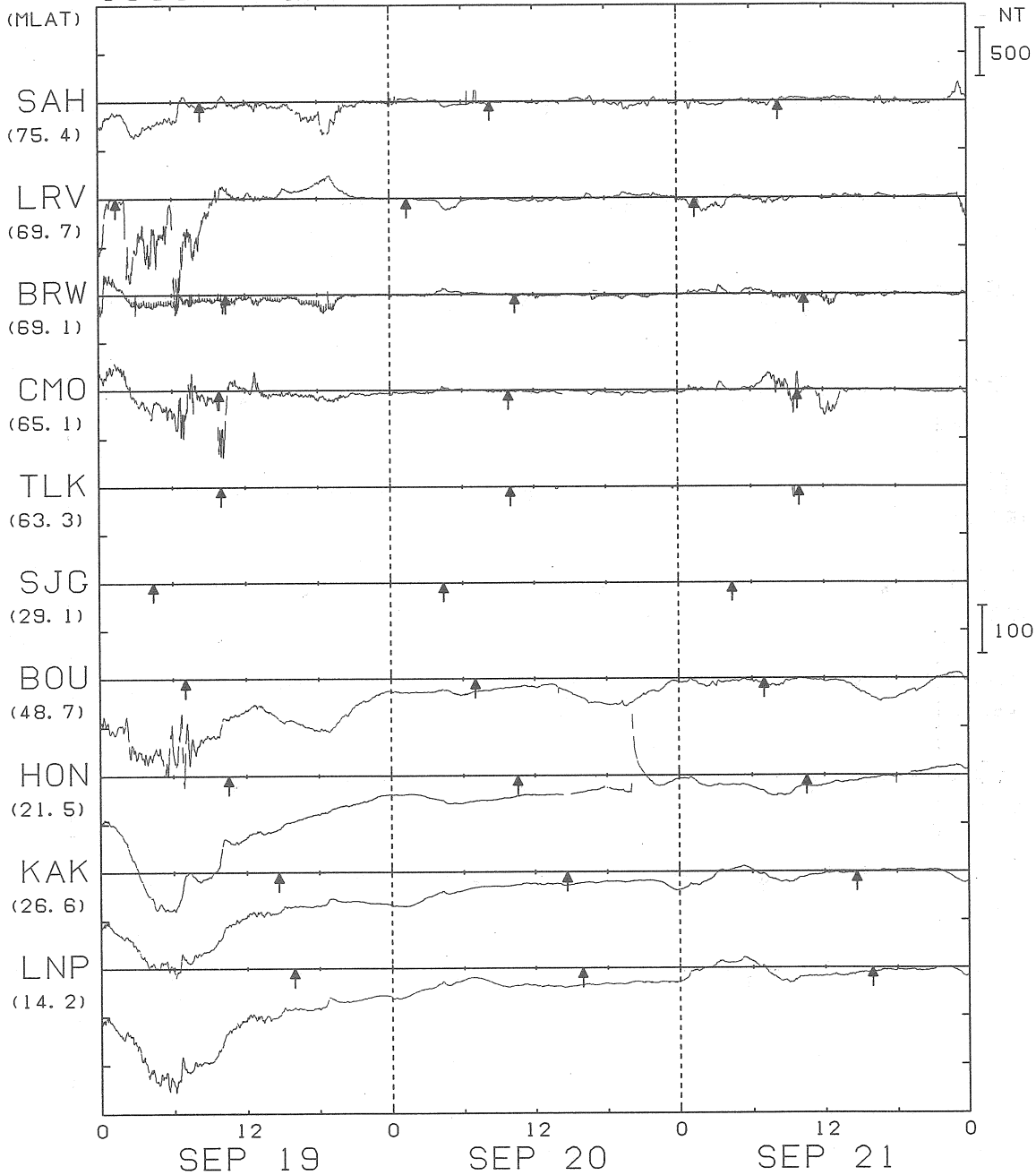
1989 H OR X-COMPONENT



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

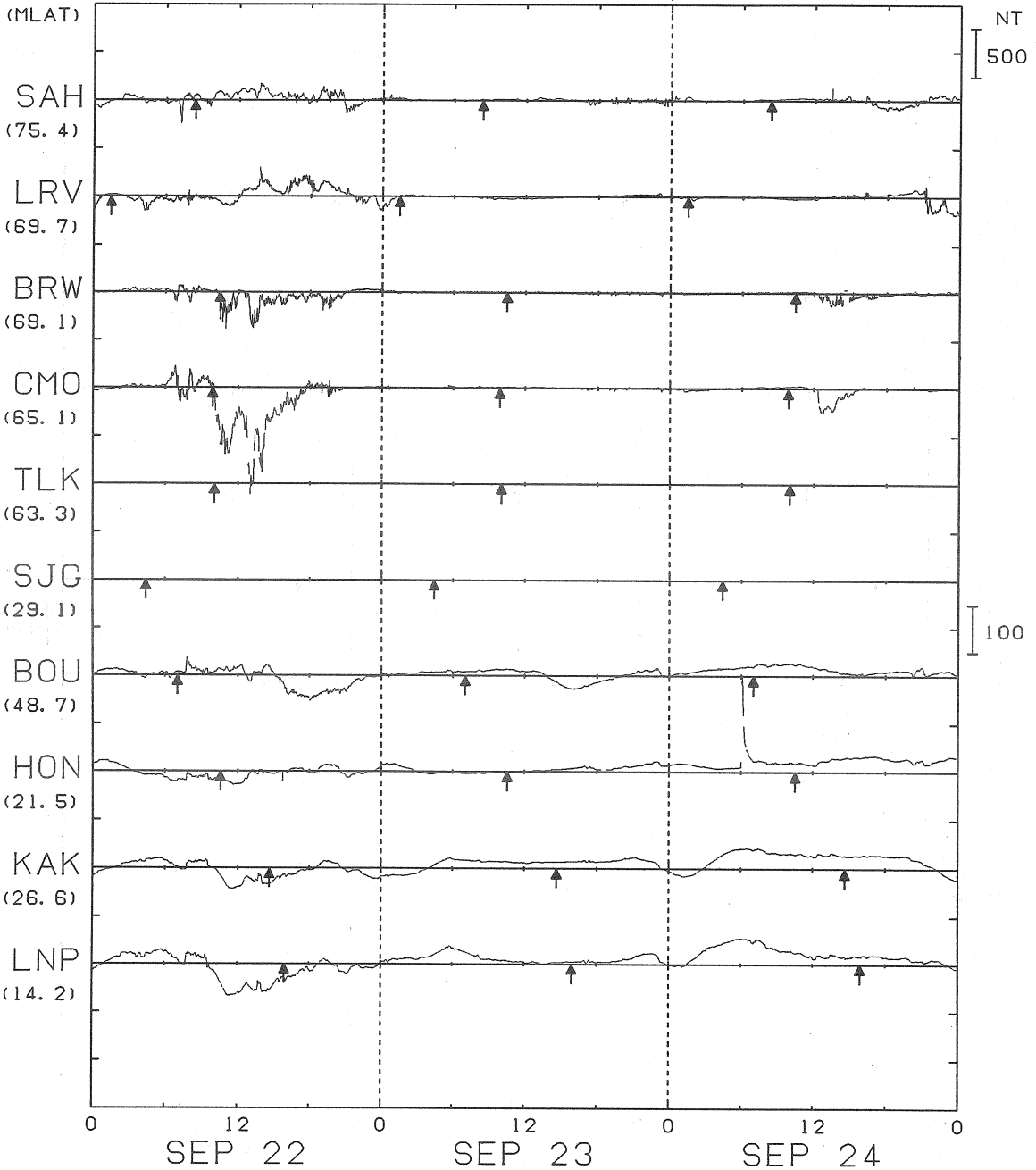
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



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

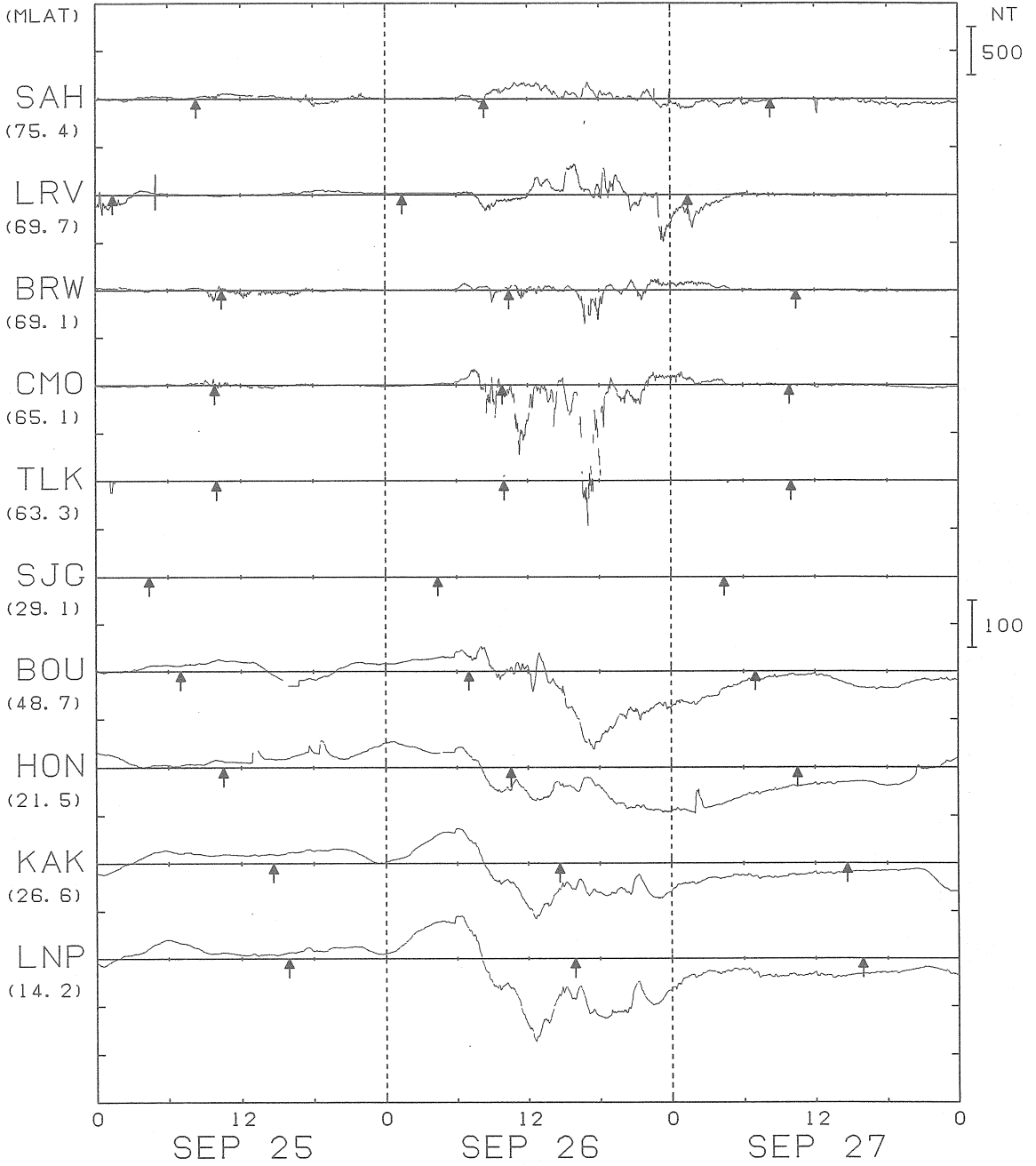
1989 H OR X-COMPONENT



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

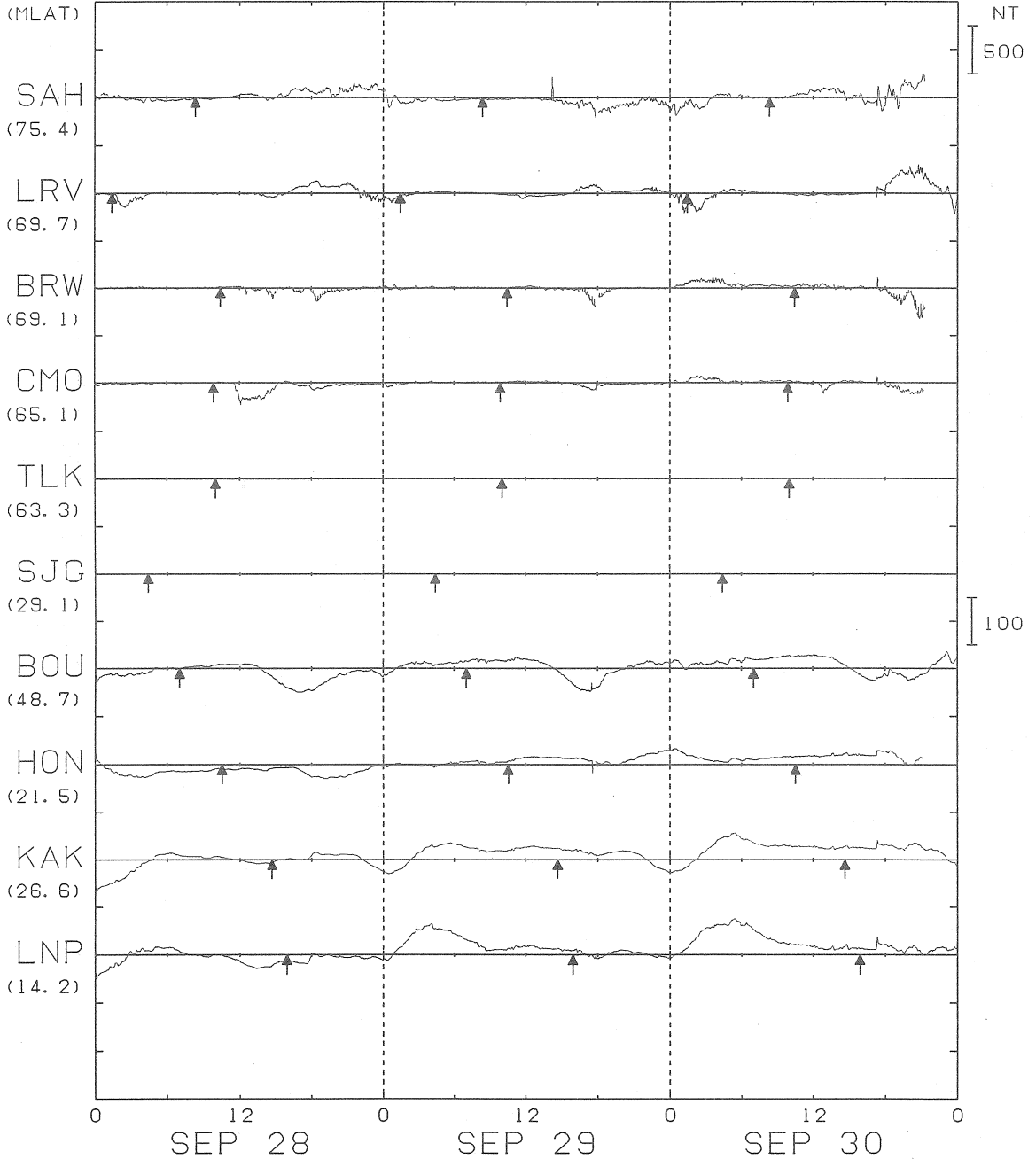
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



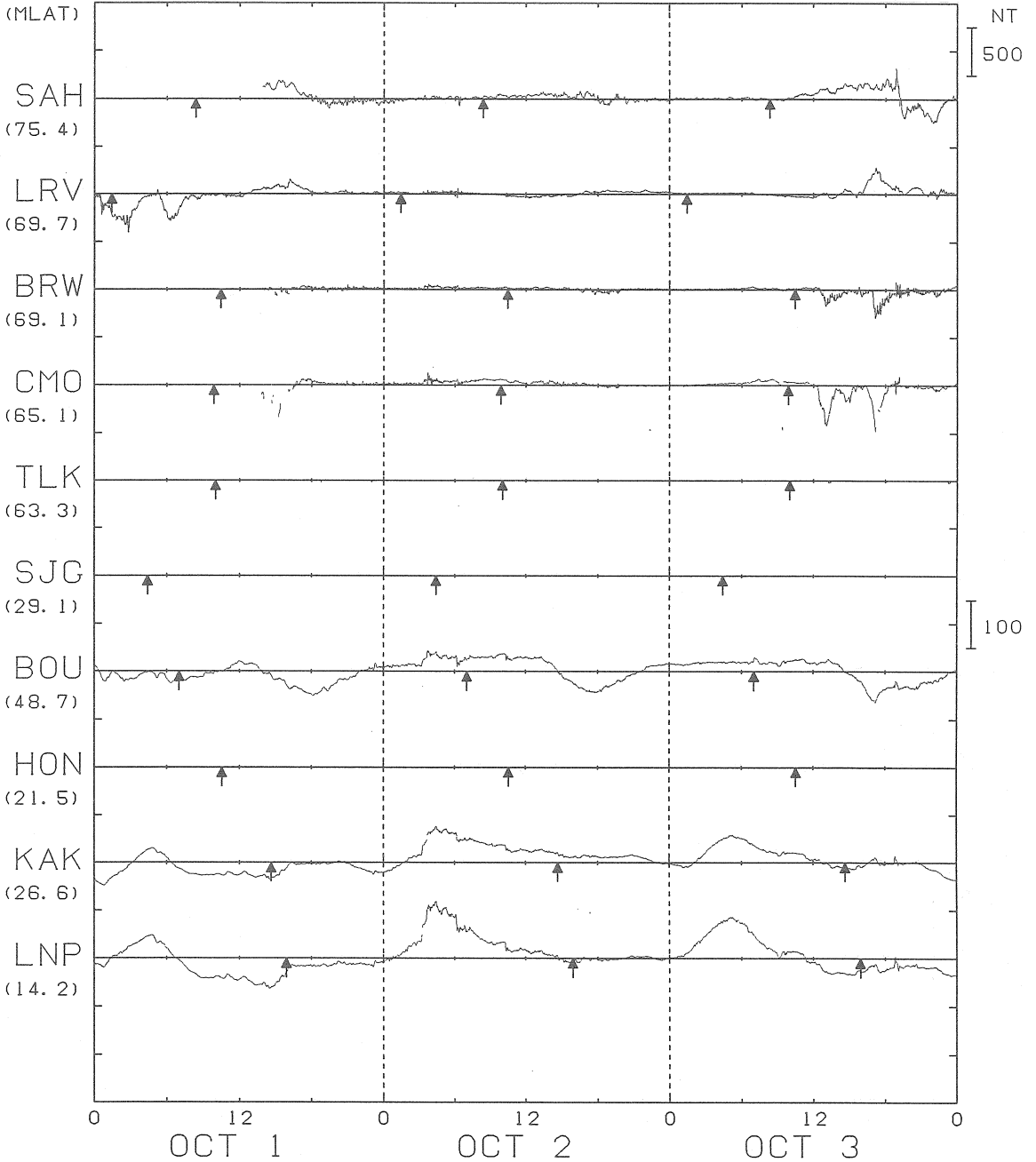
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

OCTOBER 1989

(DAY 274 - 304)

1989 H OR X-COMPONENT

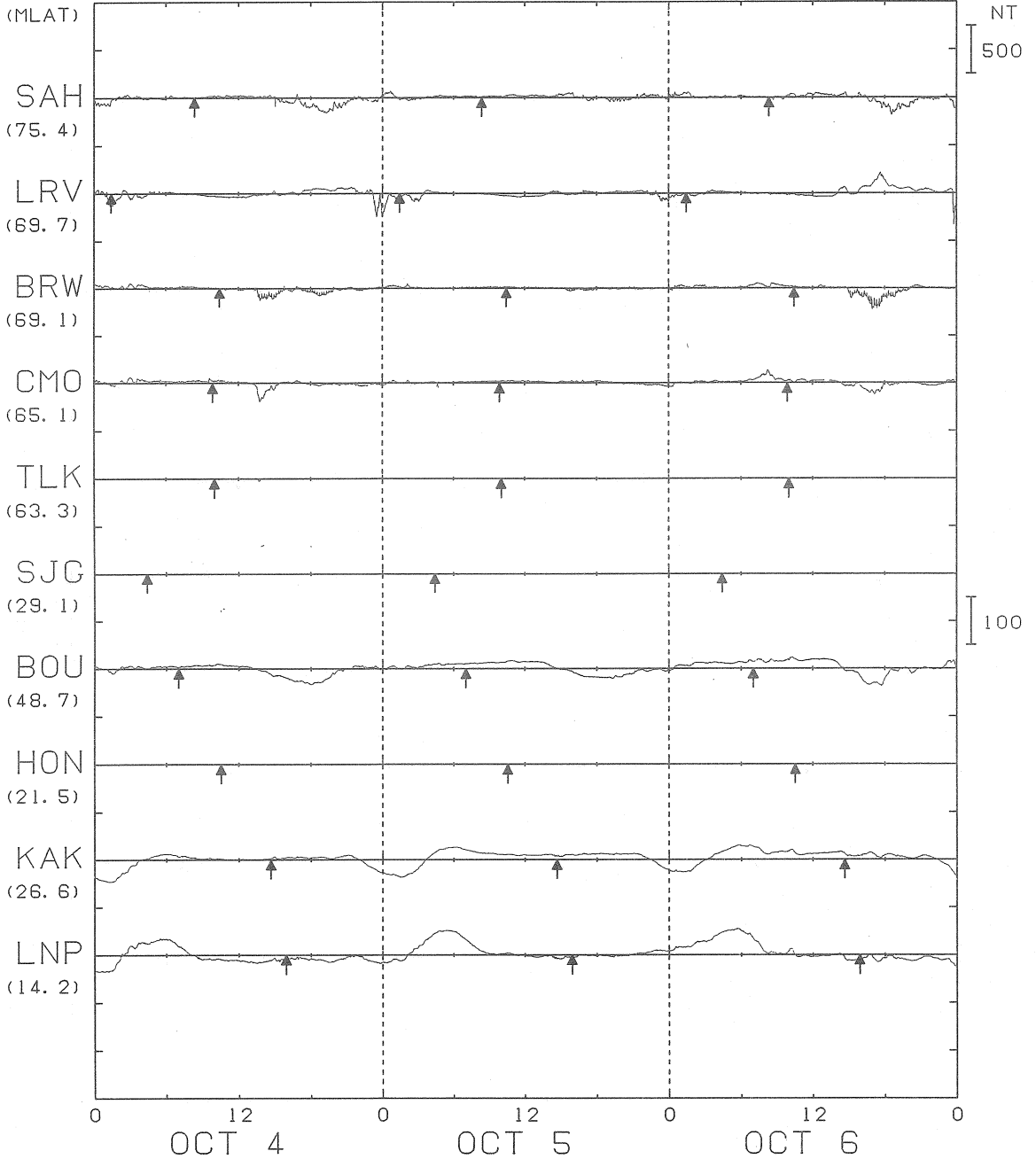
↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

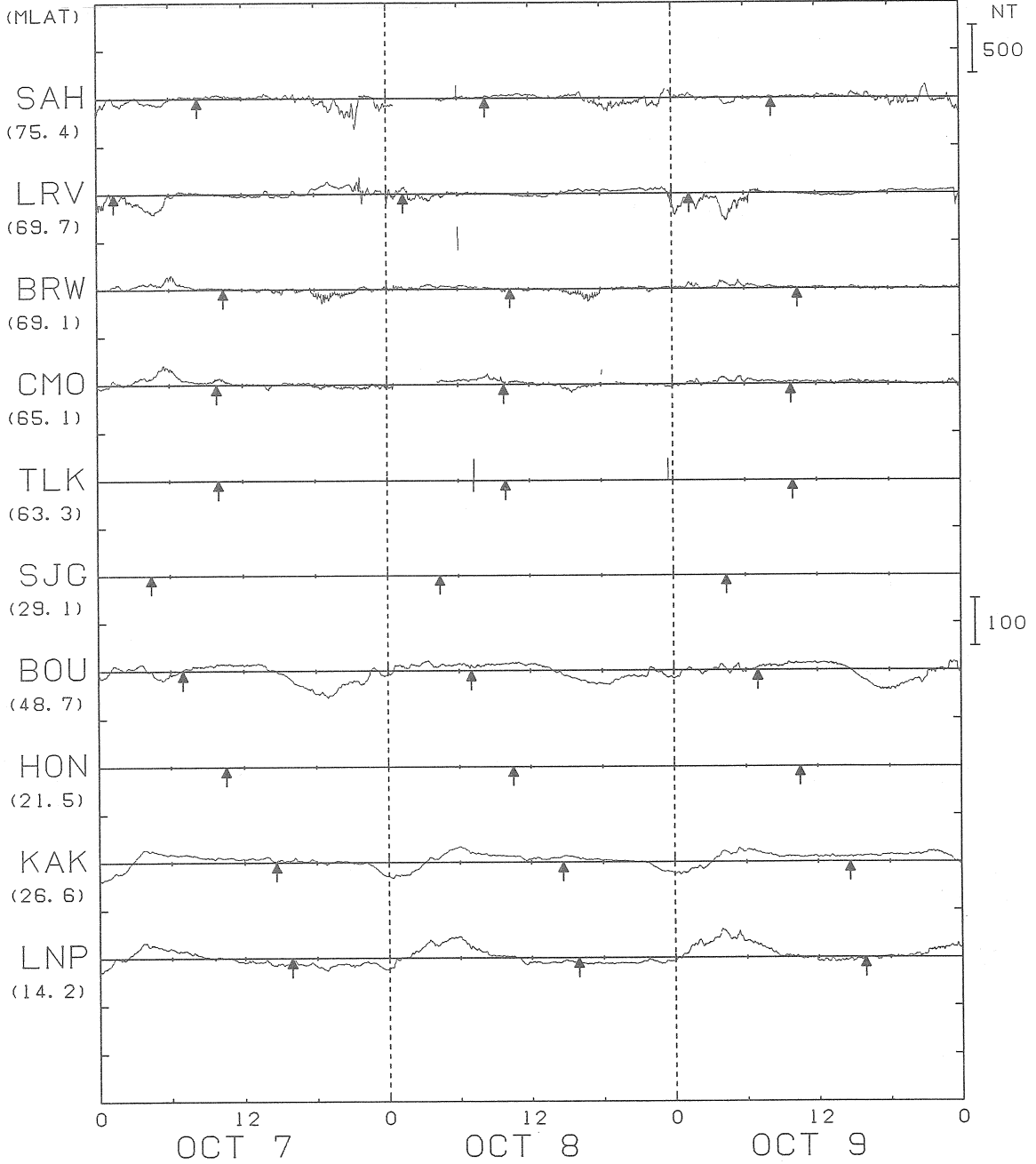
↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

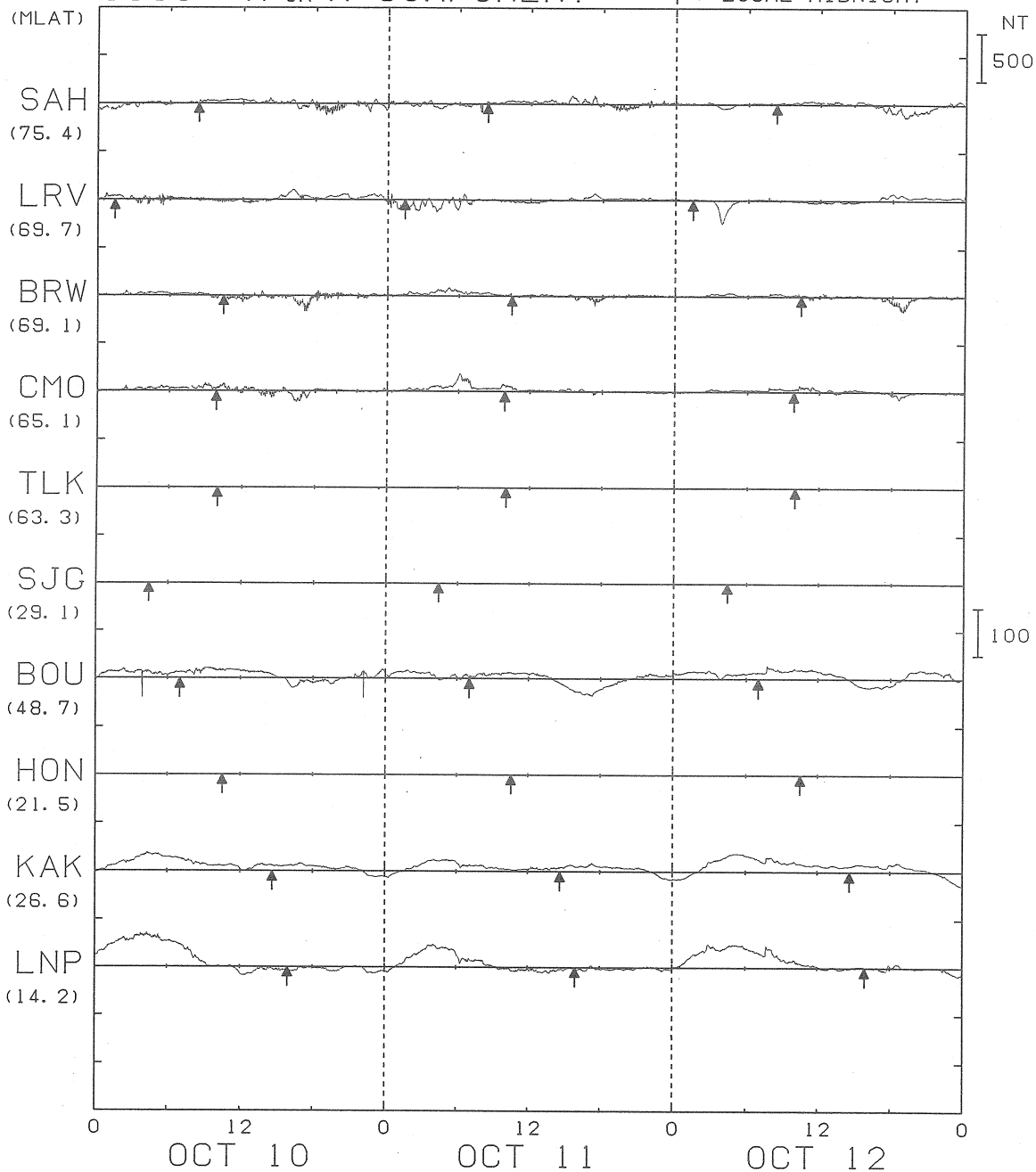
↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

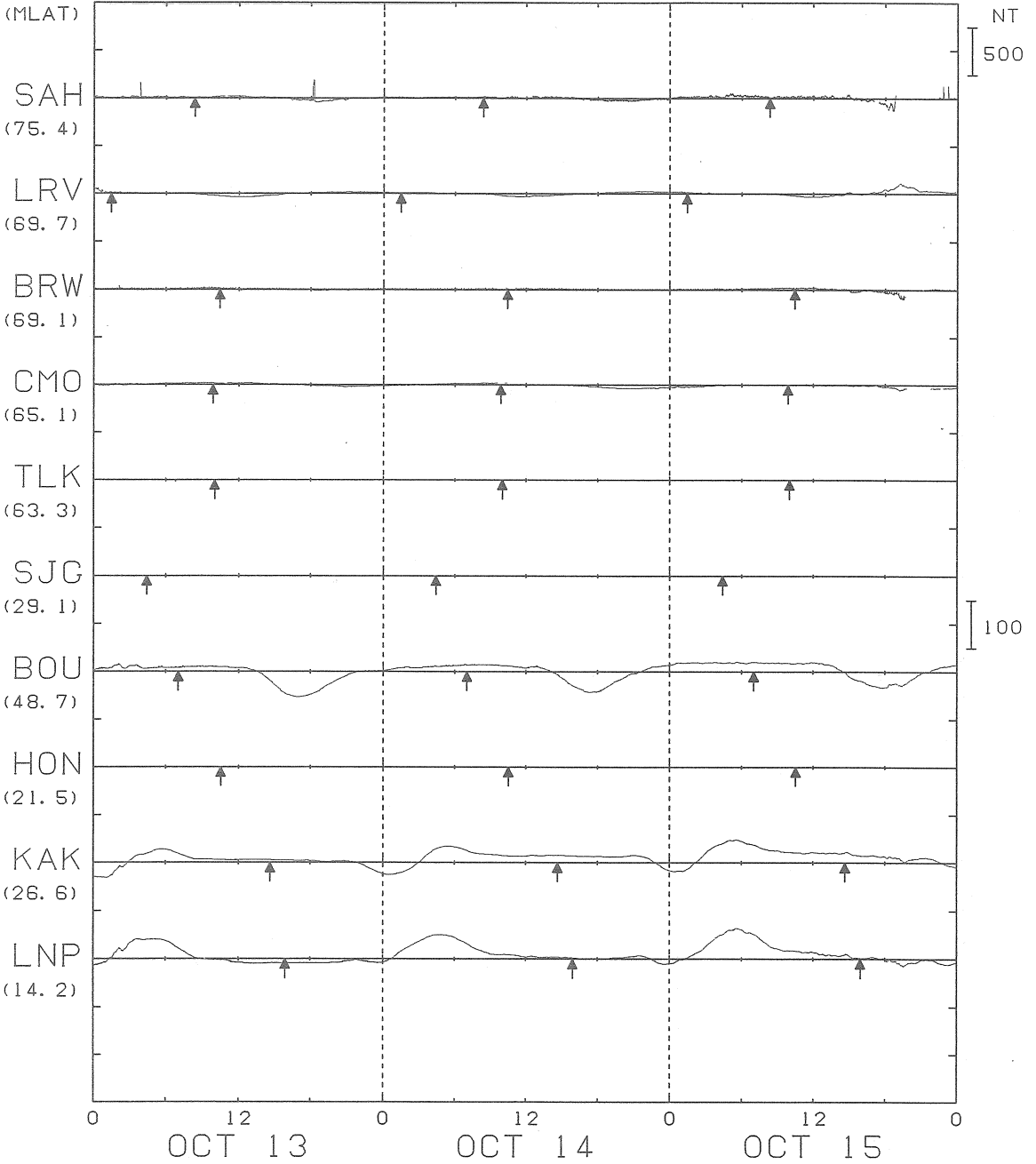
↑ : LOCAL MIDNIGHT



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

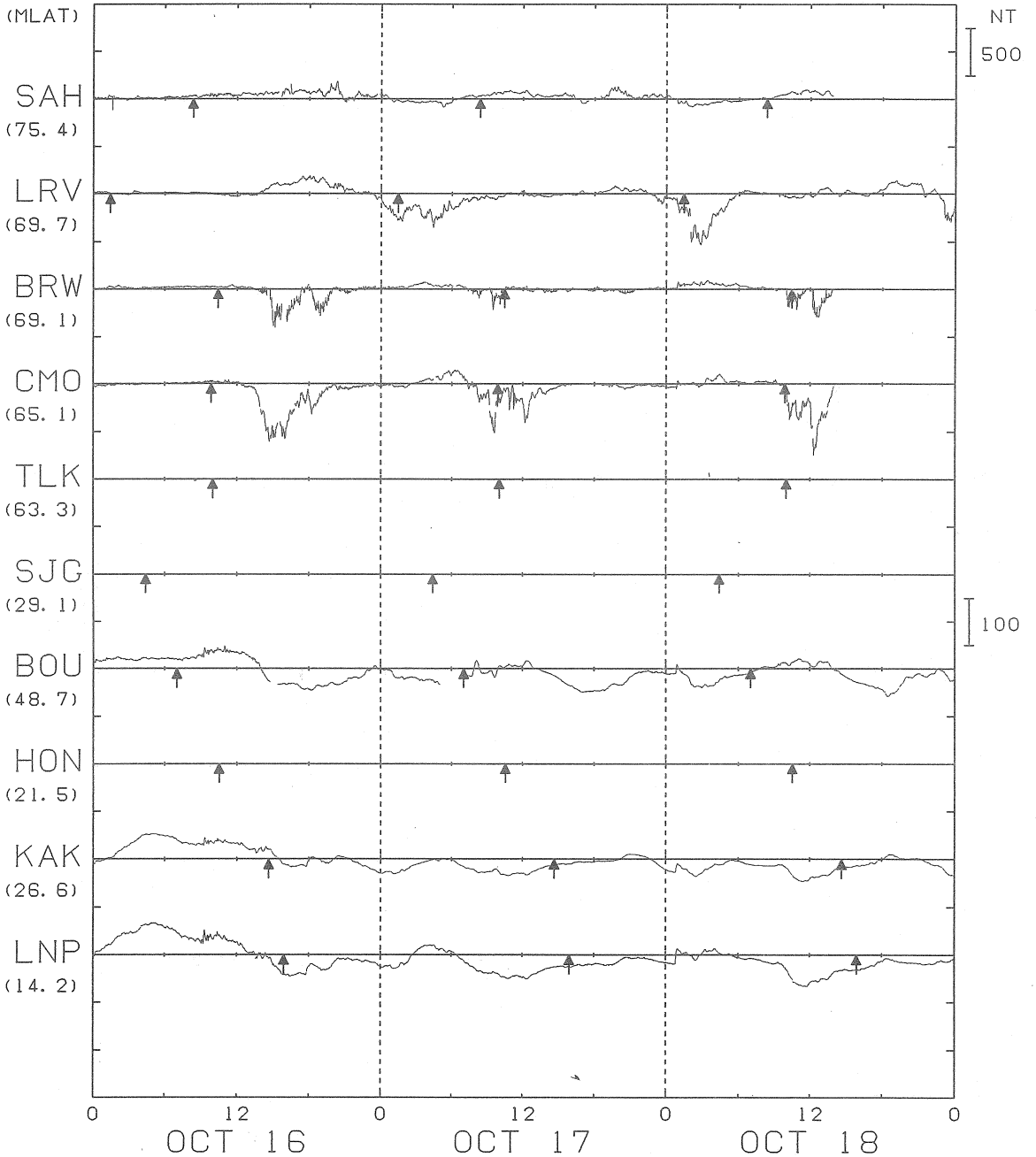
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



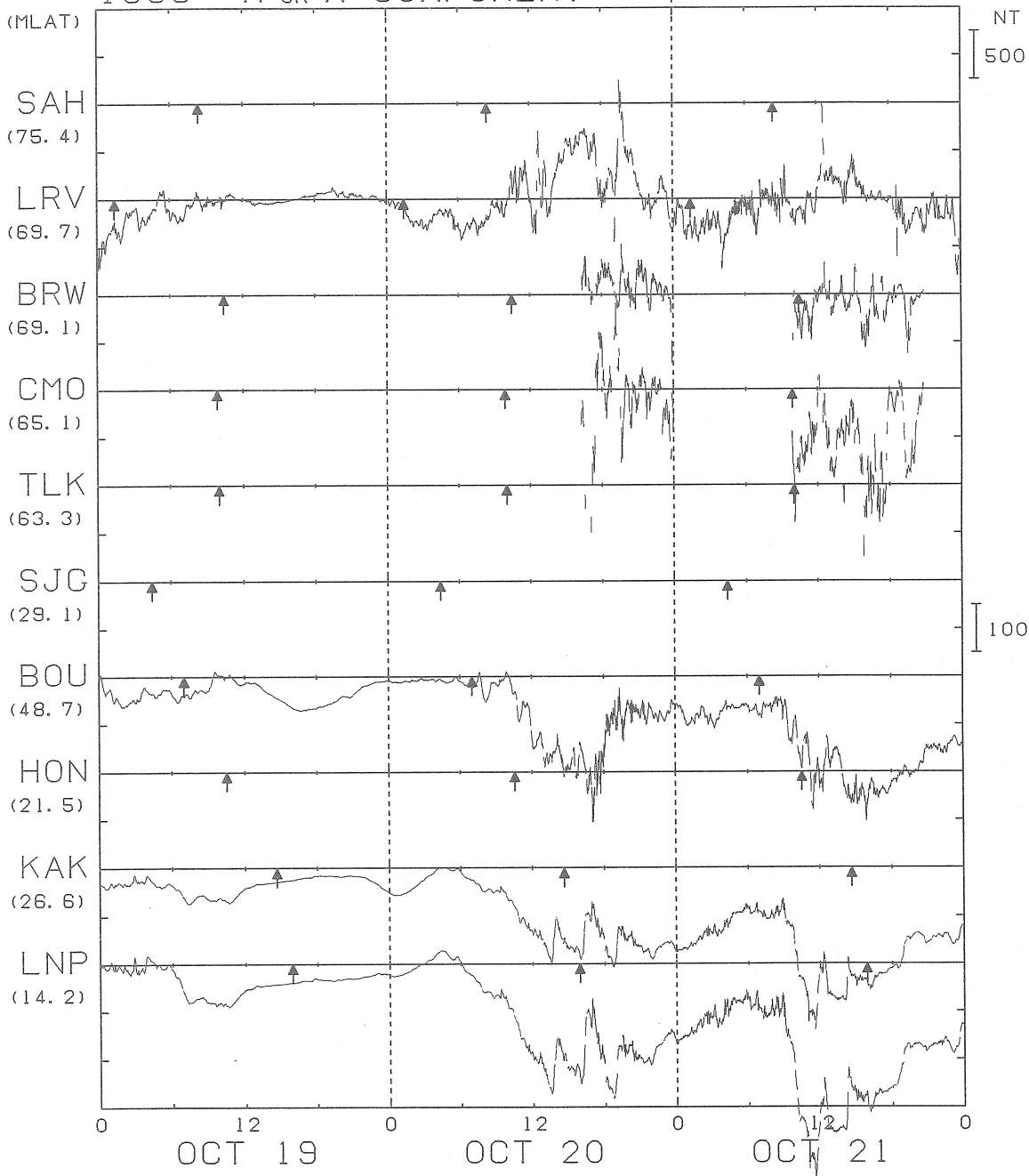
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT



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

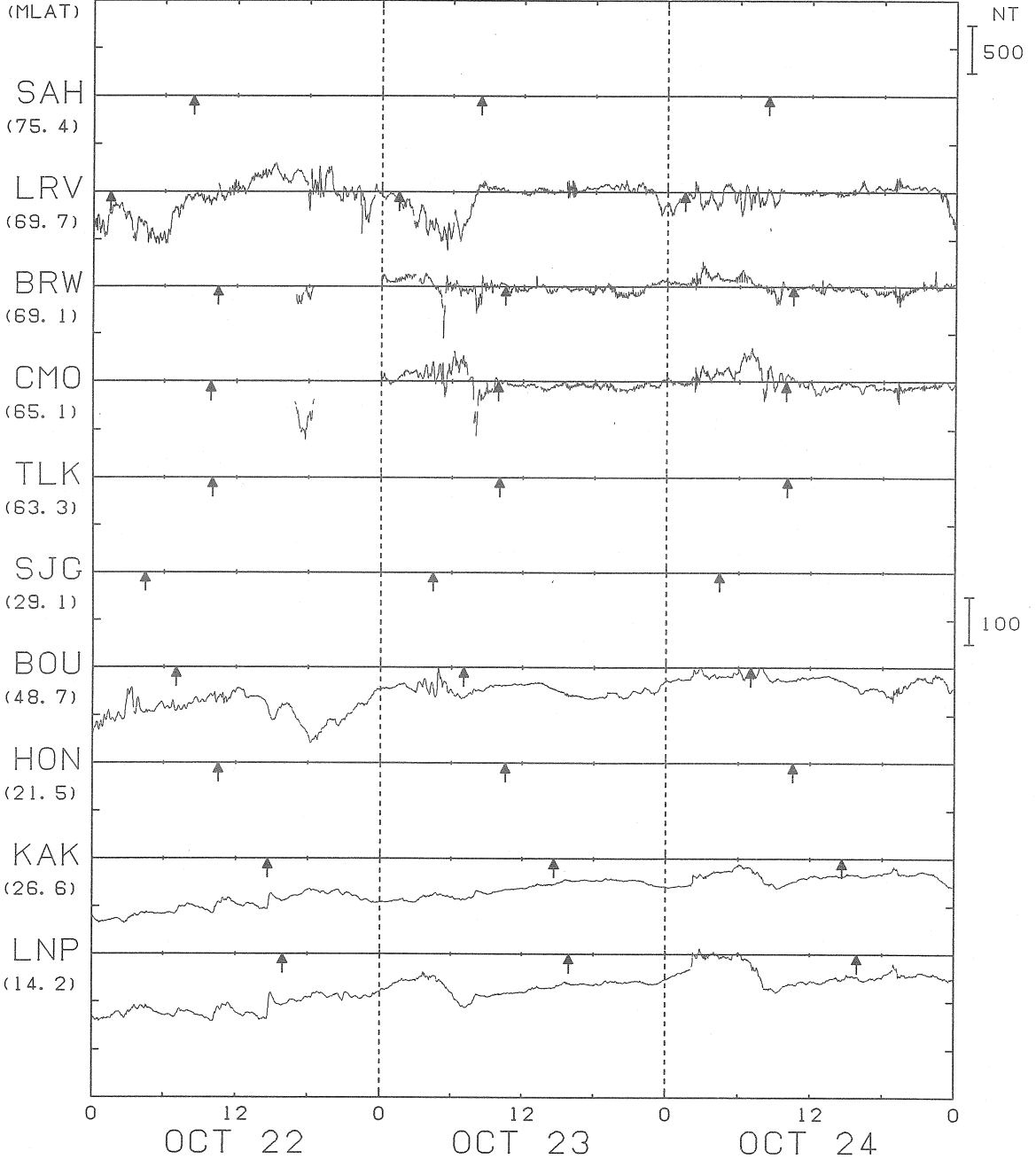
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

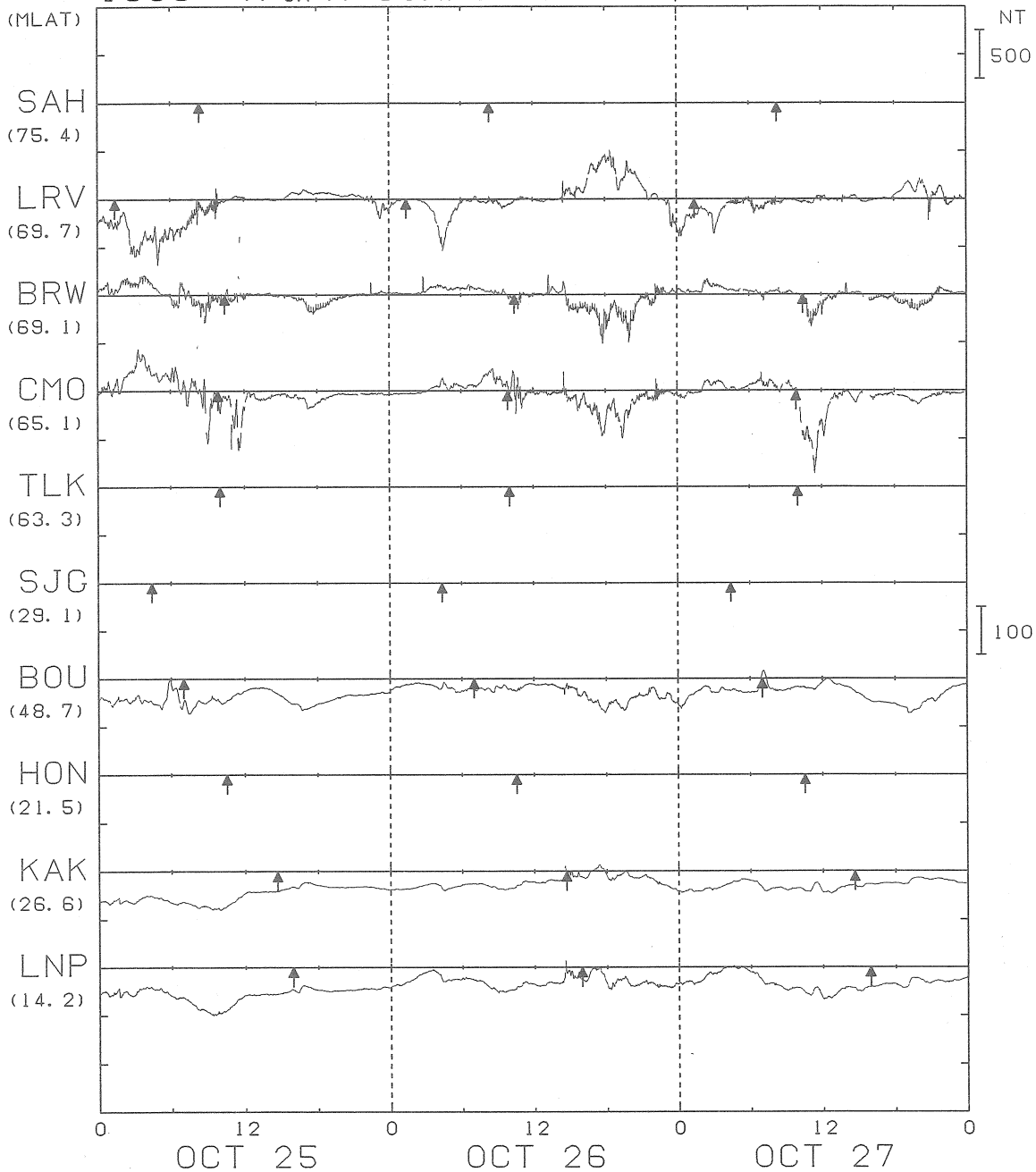
↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

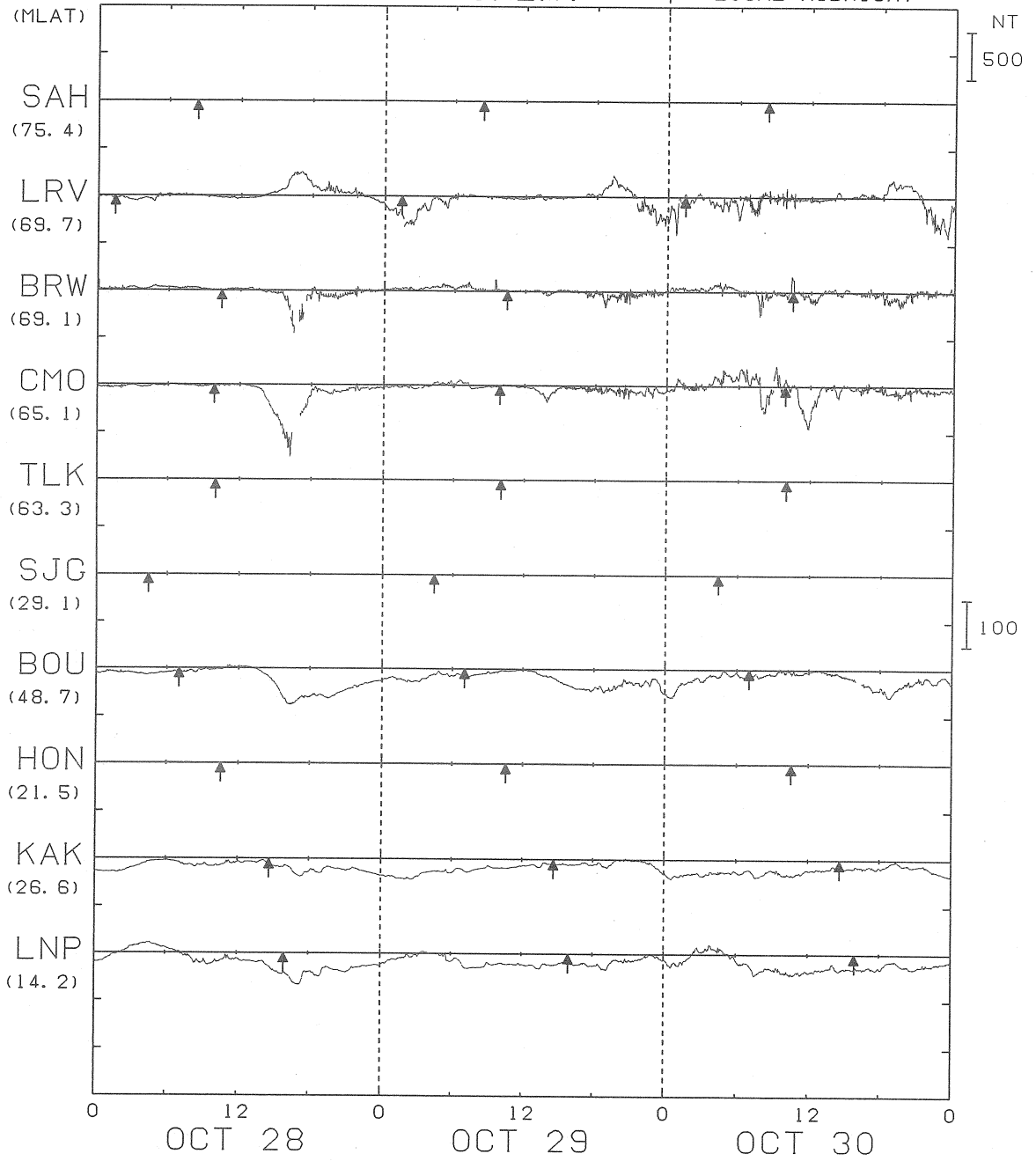
↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

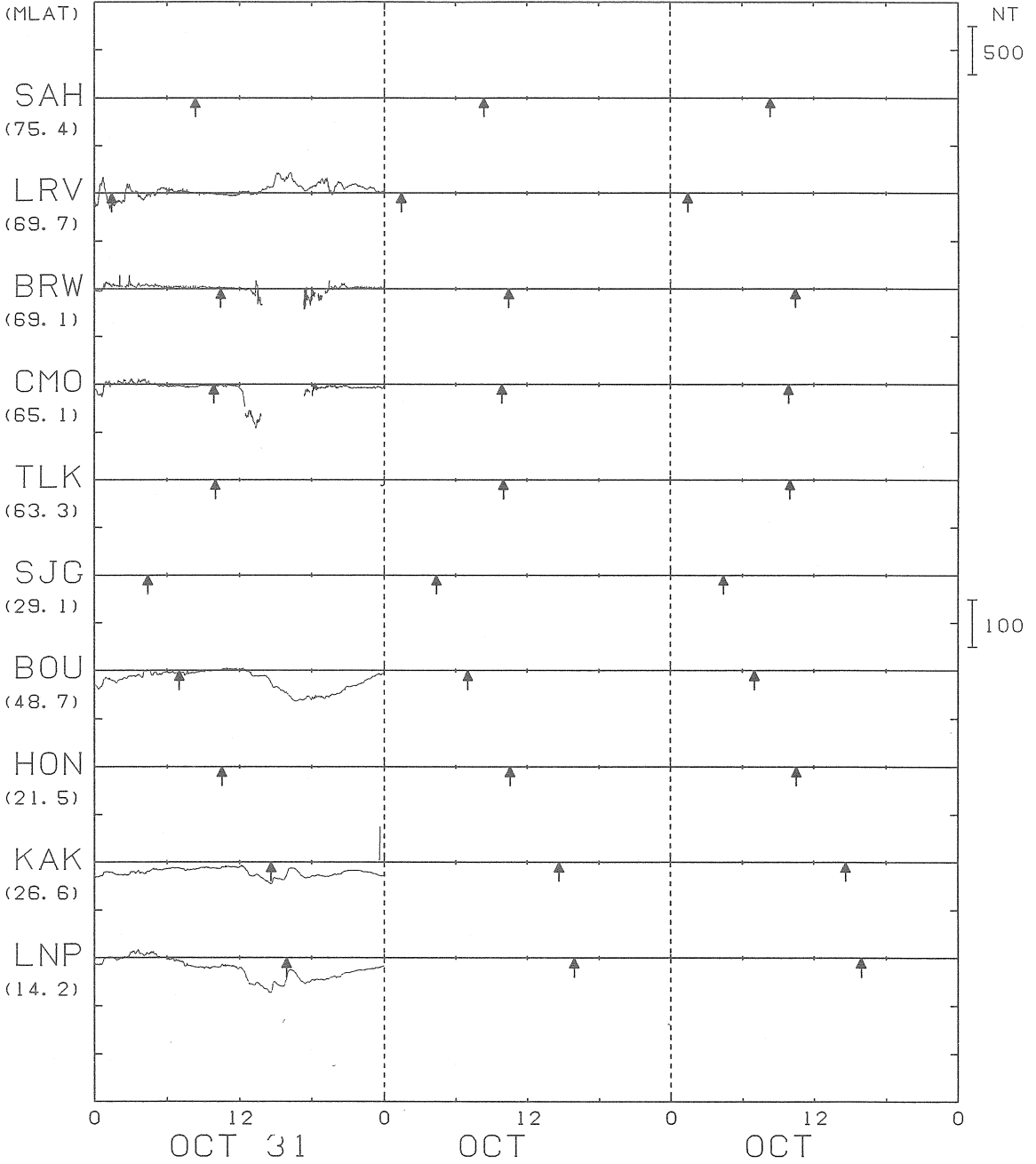
↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT

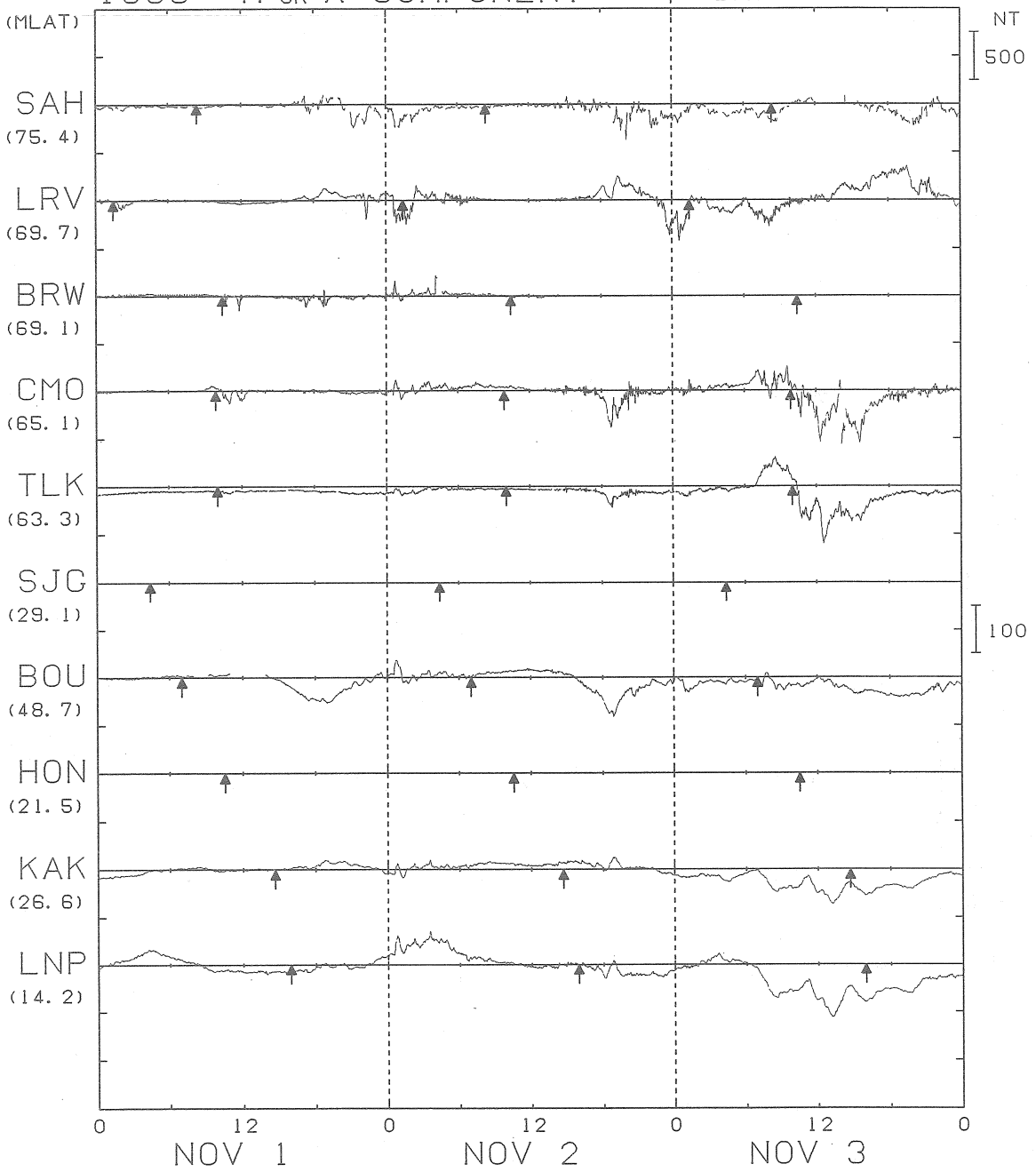


* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

NOVEMBER 1989

(DAY 305 - 334)

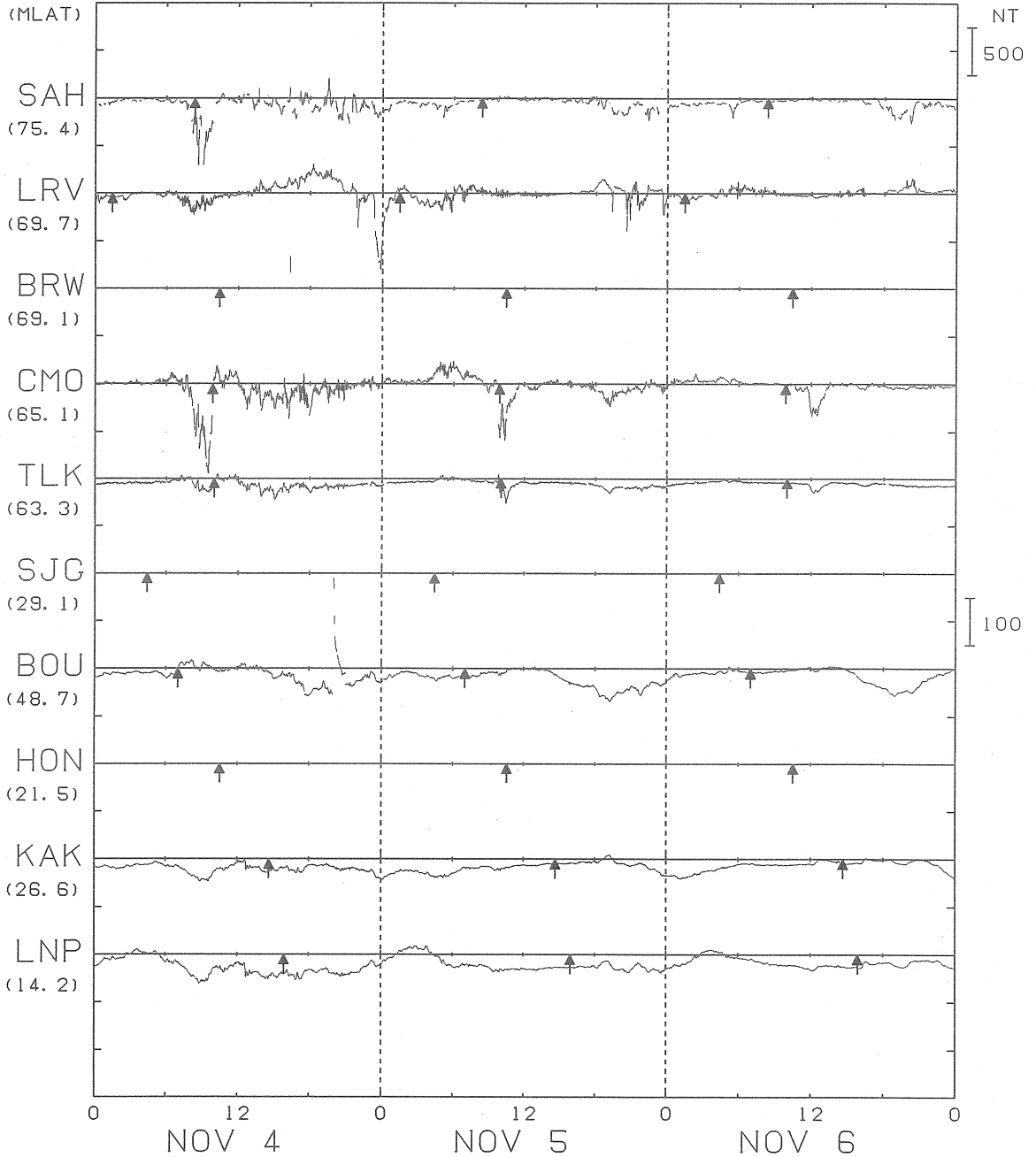
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

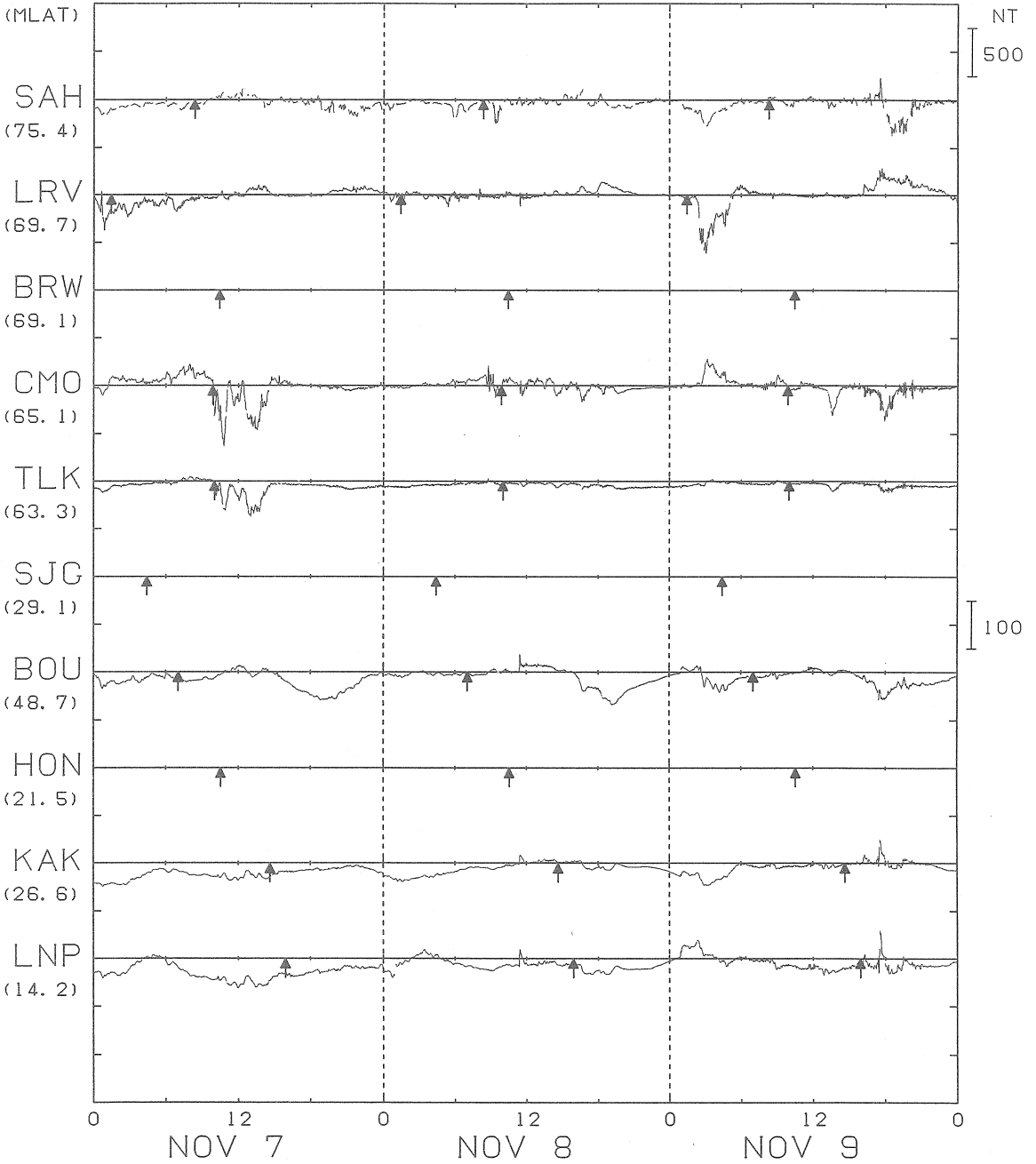
↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

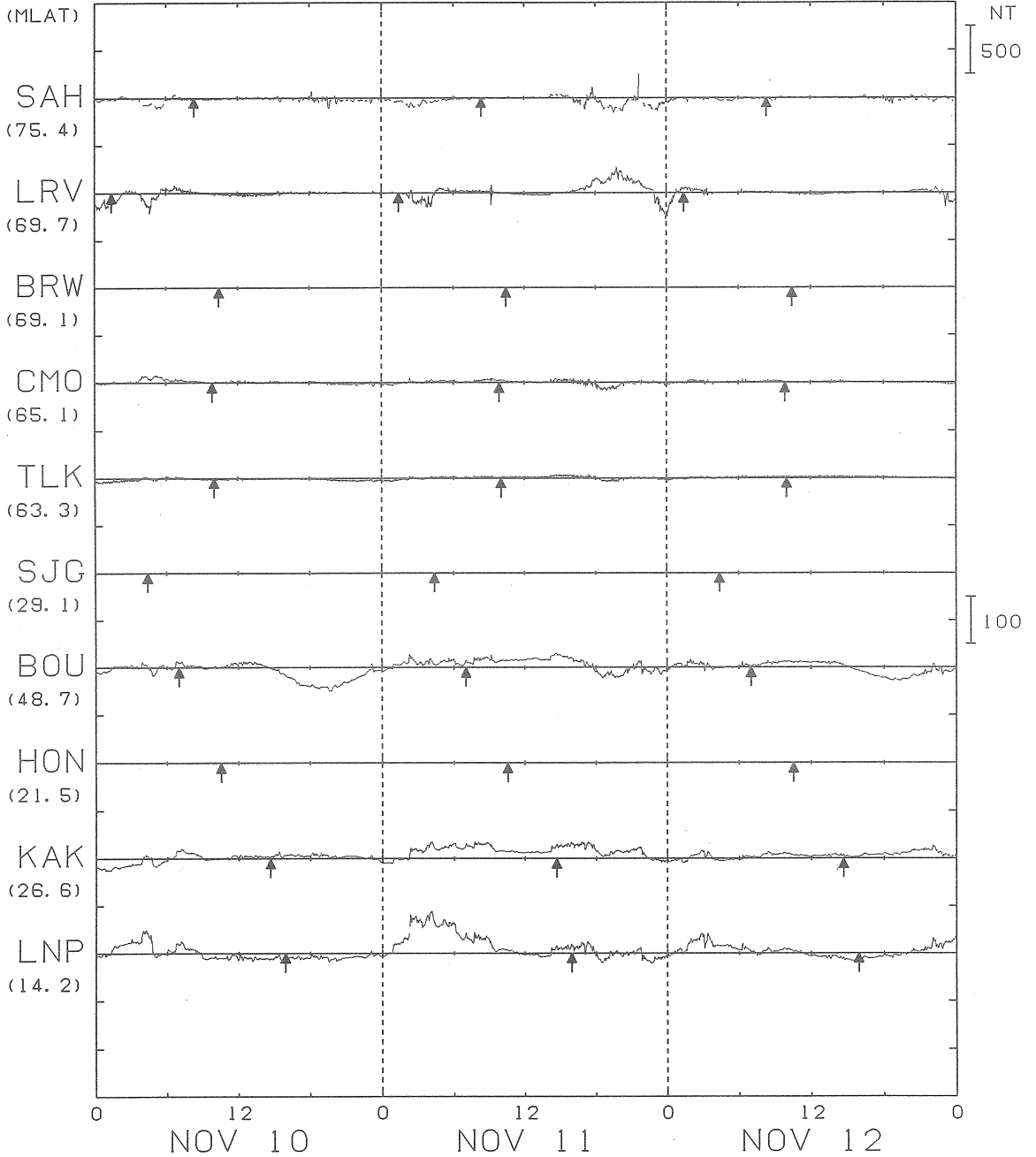
↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

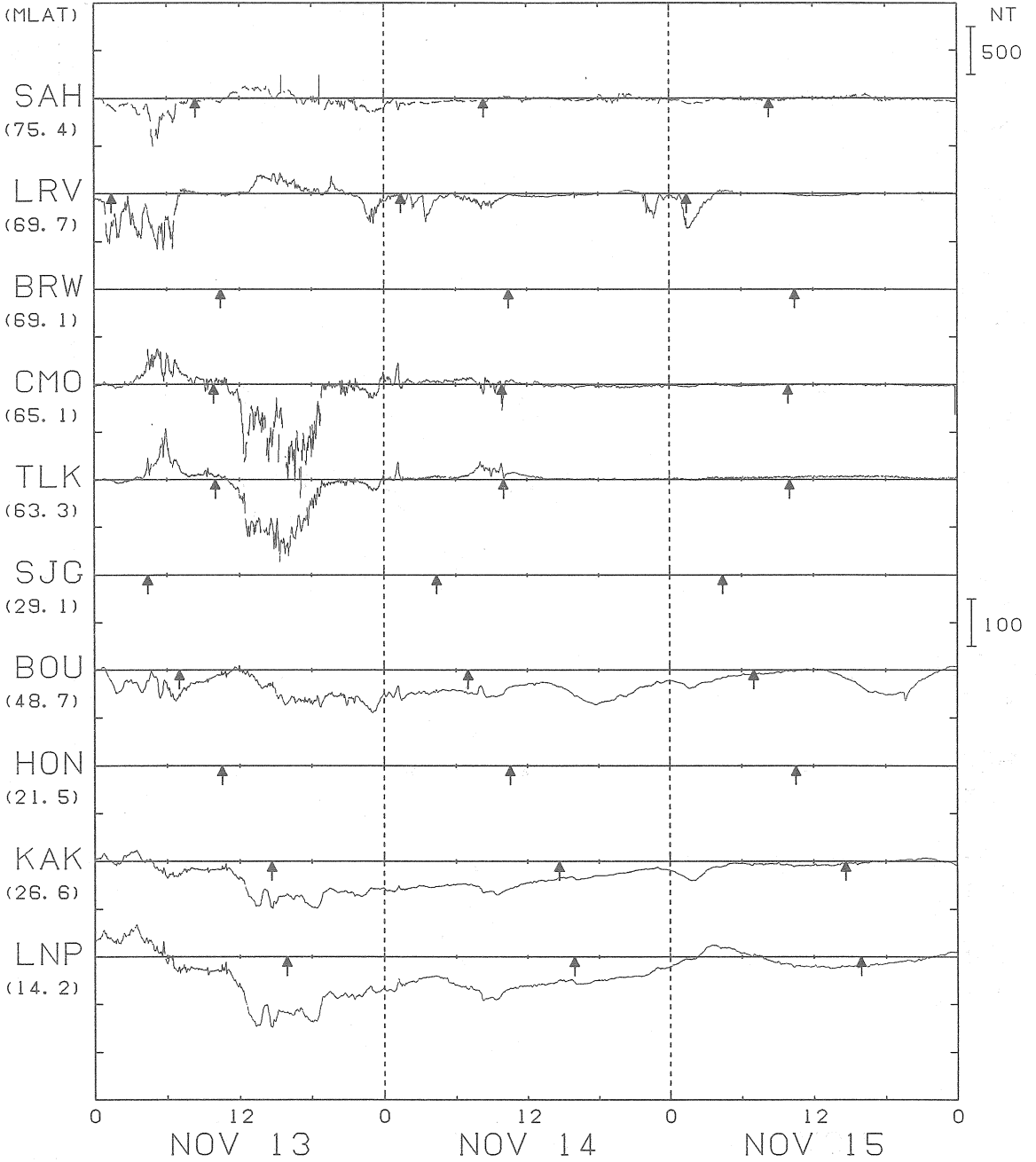
↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

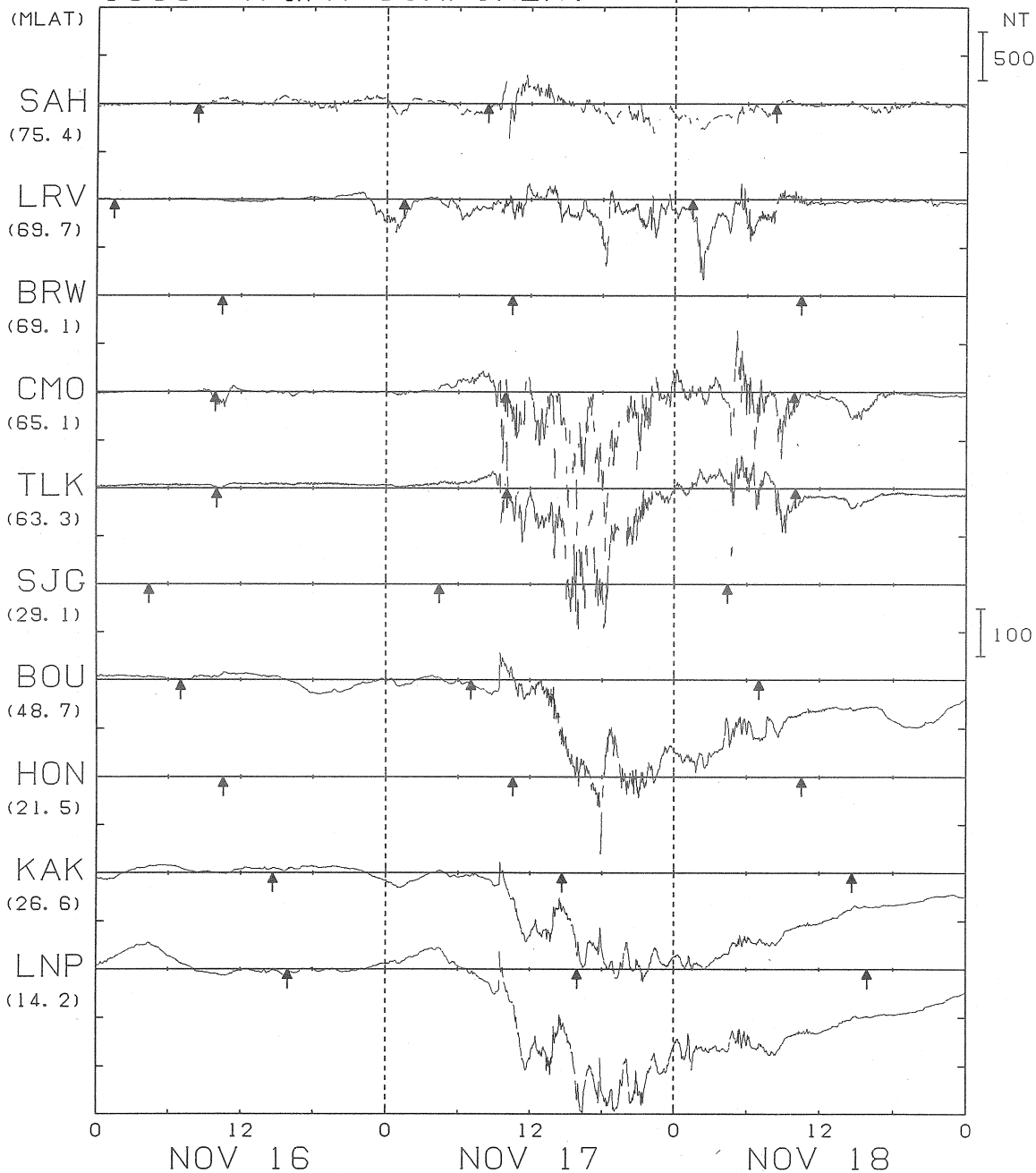
↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

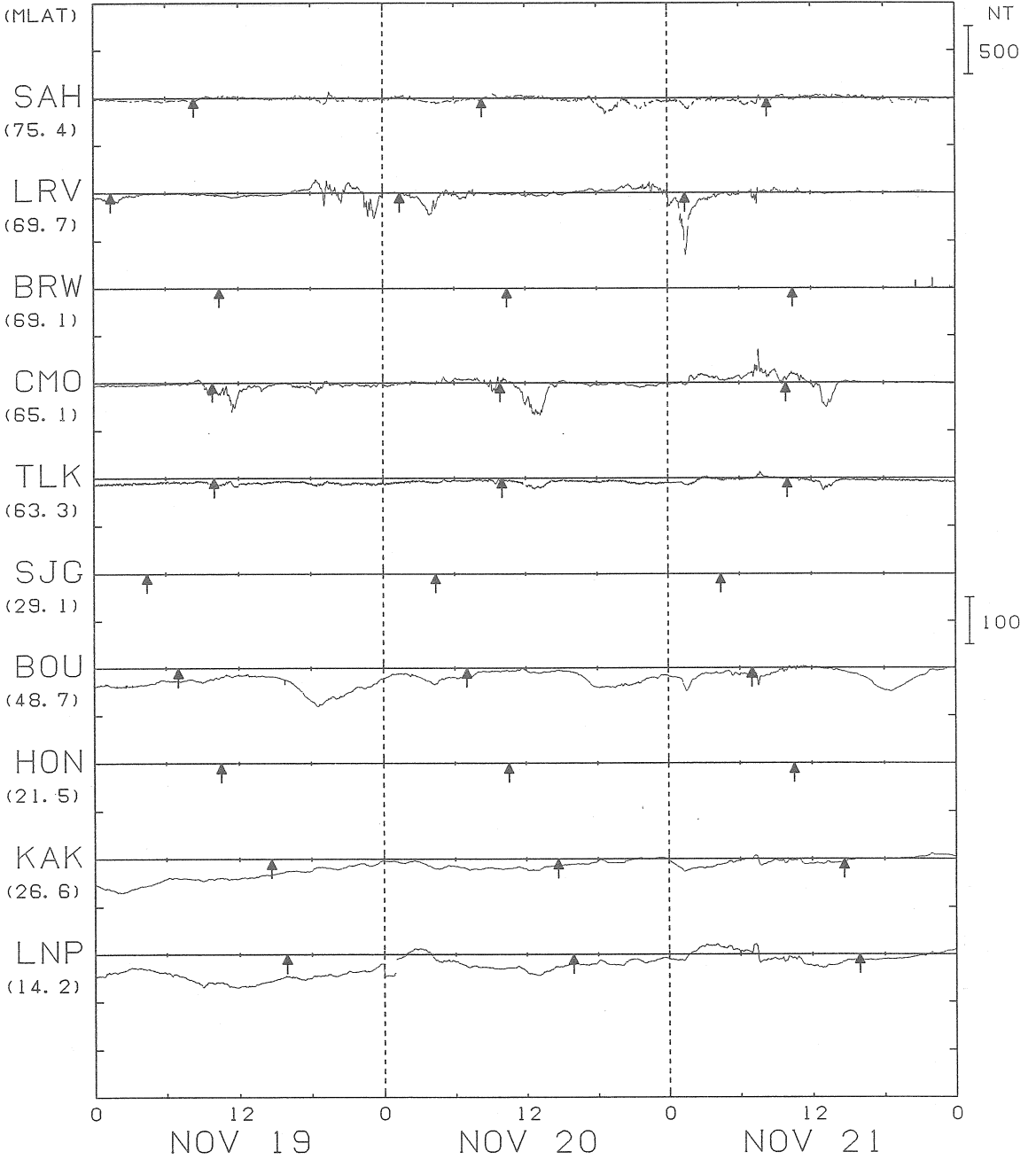
↑ : LOCAL MIDNIGHT



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

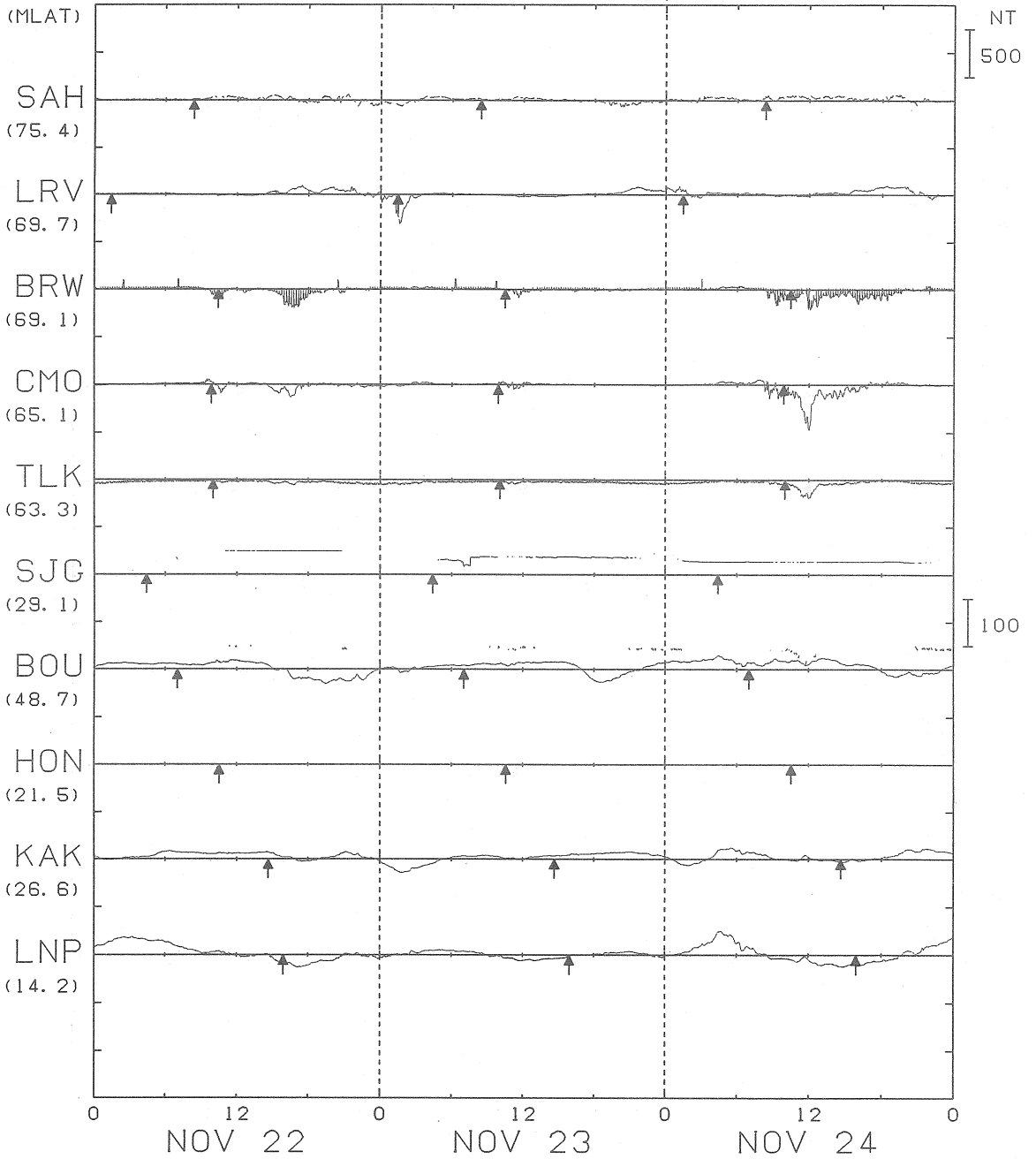
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



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

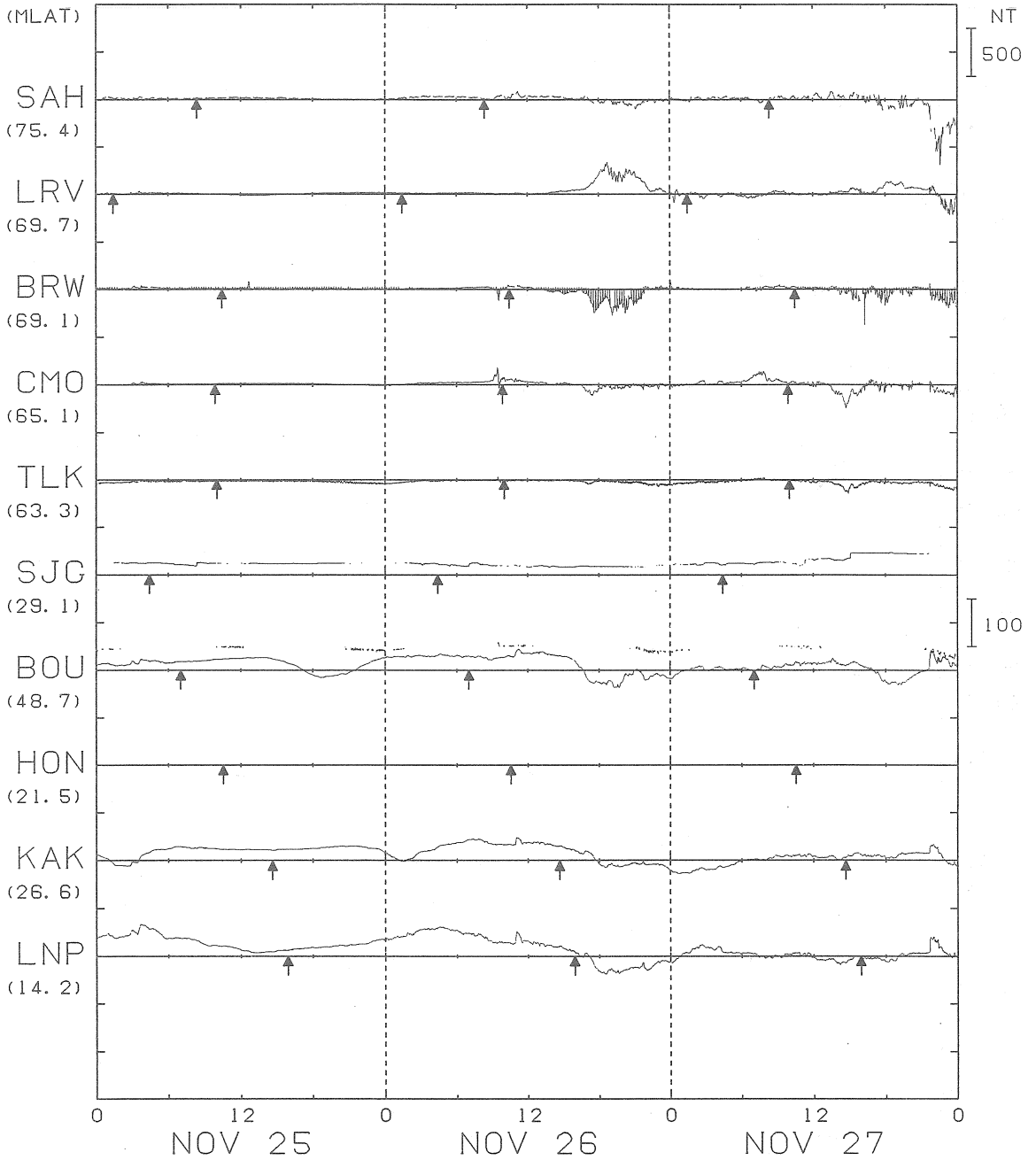
1989 H OR X-COMPONENT



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

1989 H_{0R} X-COMPONENT

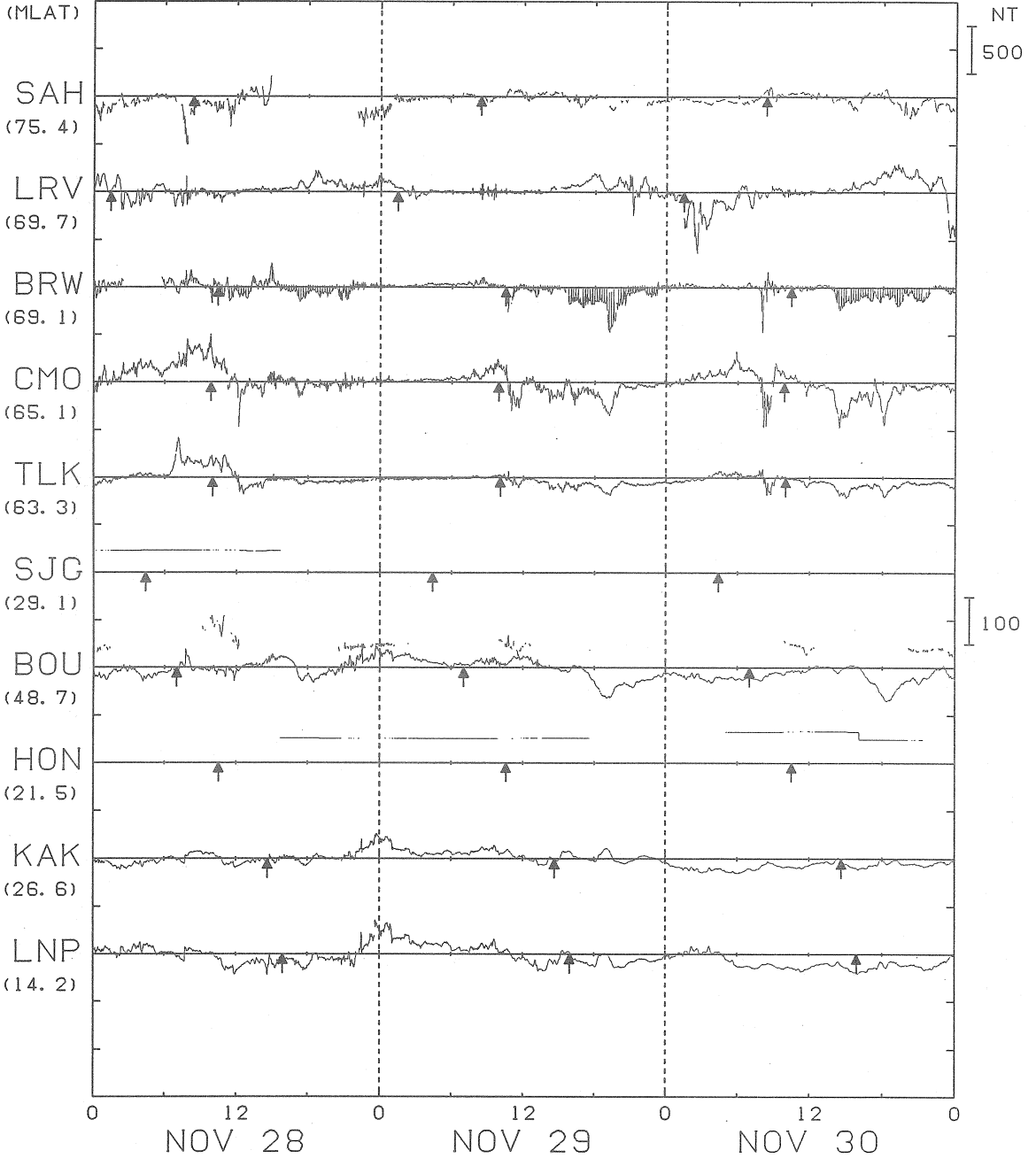
↑ : LOCAL MIDNIGHT



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

1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



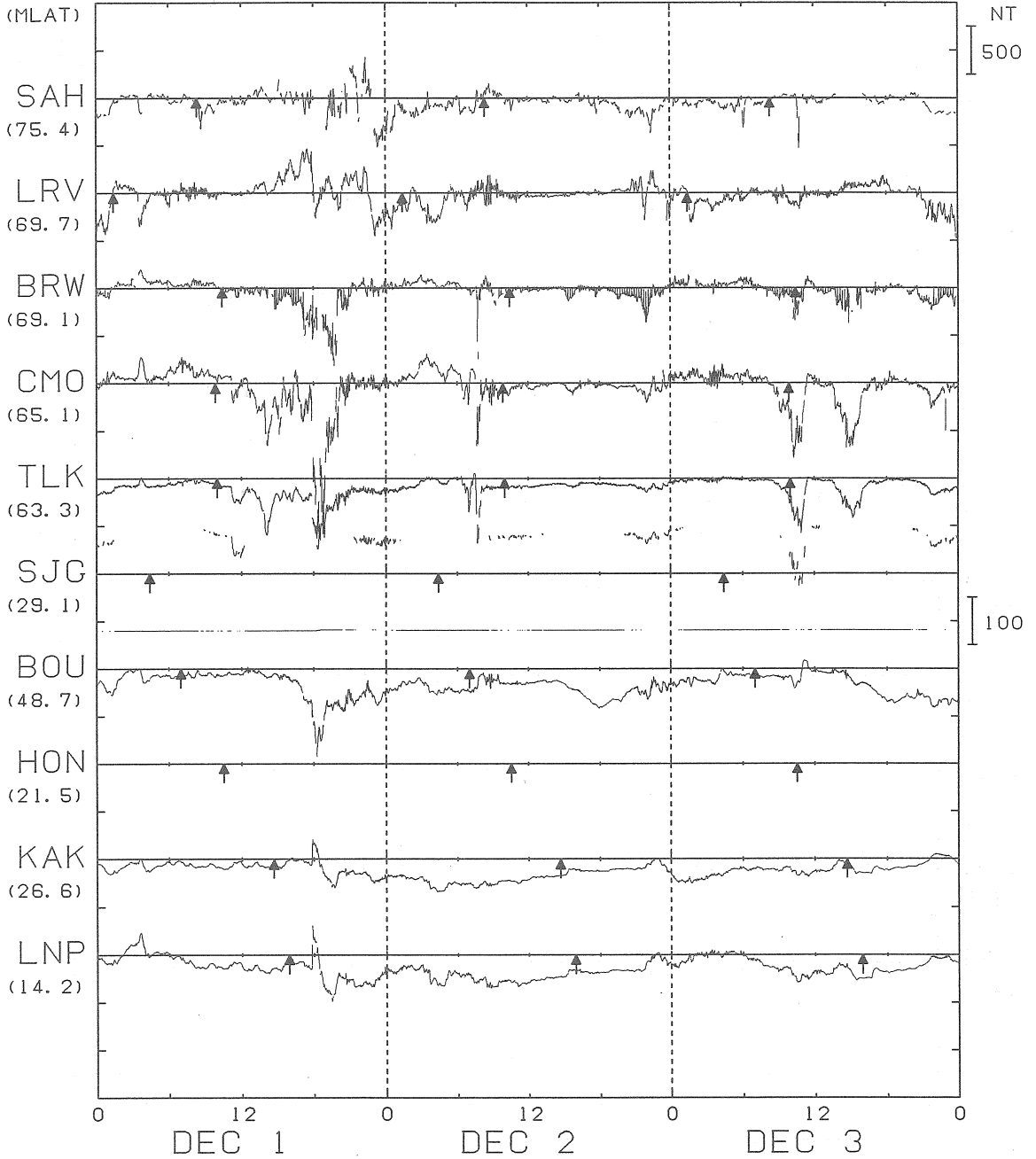
* MONTHLY MEAN OF 5-QUIET DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

DECEMBER 1989

(DAY 335 - 365)

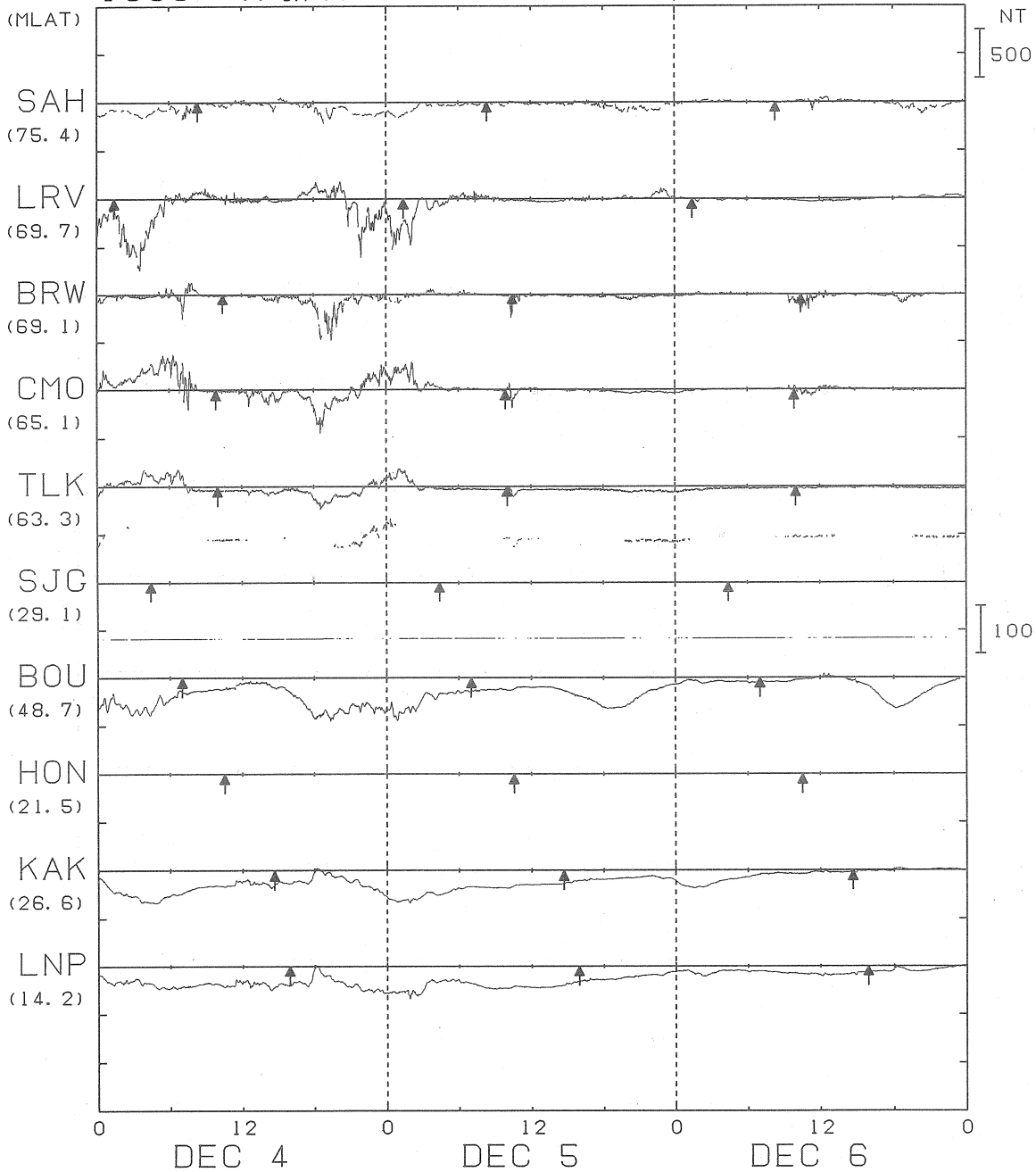
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



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

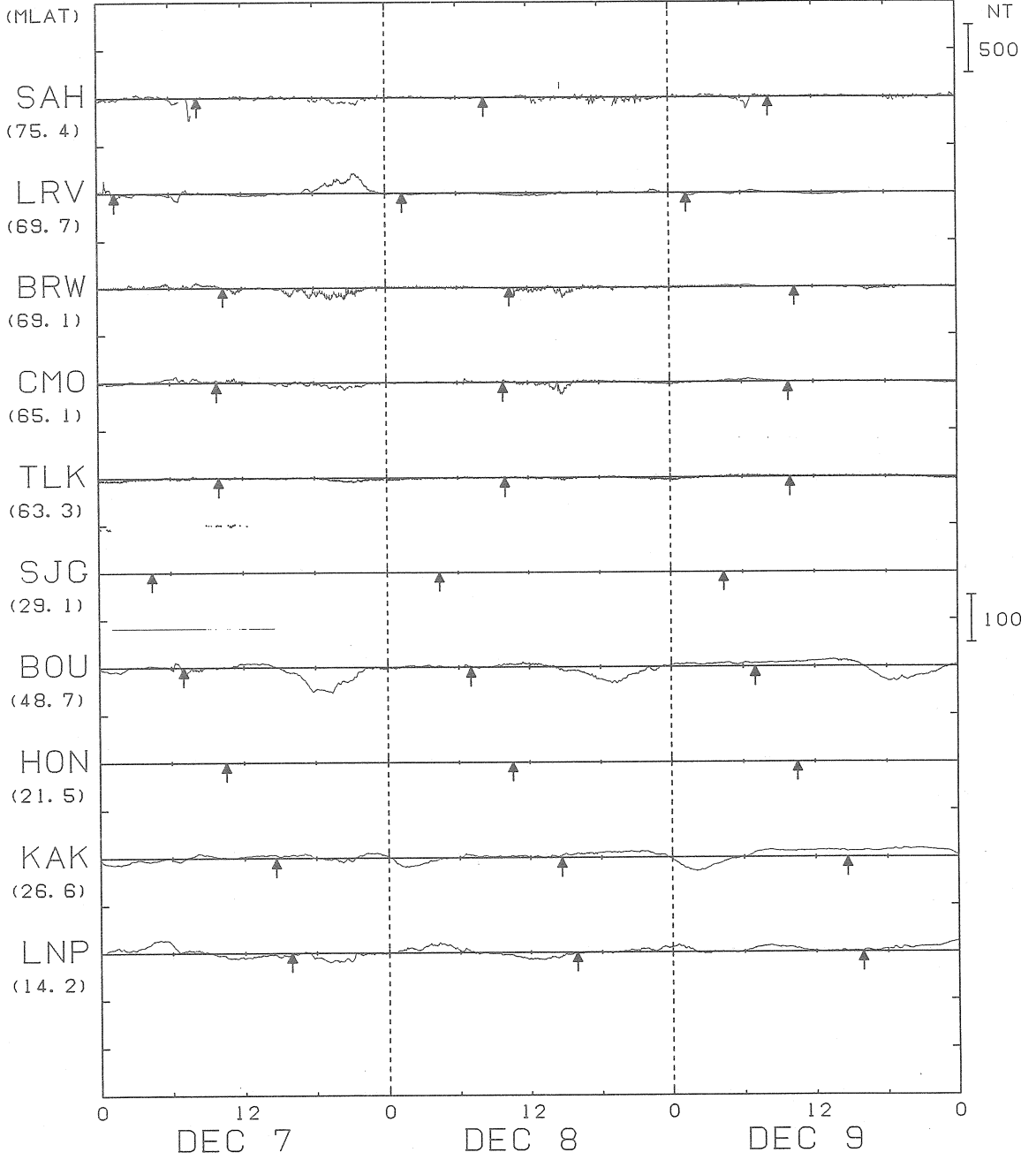
1989 H OR X-COMPONENT



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

1989 H OR X-COMPONENT

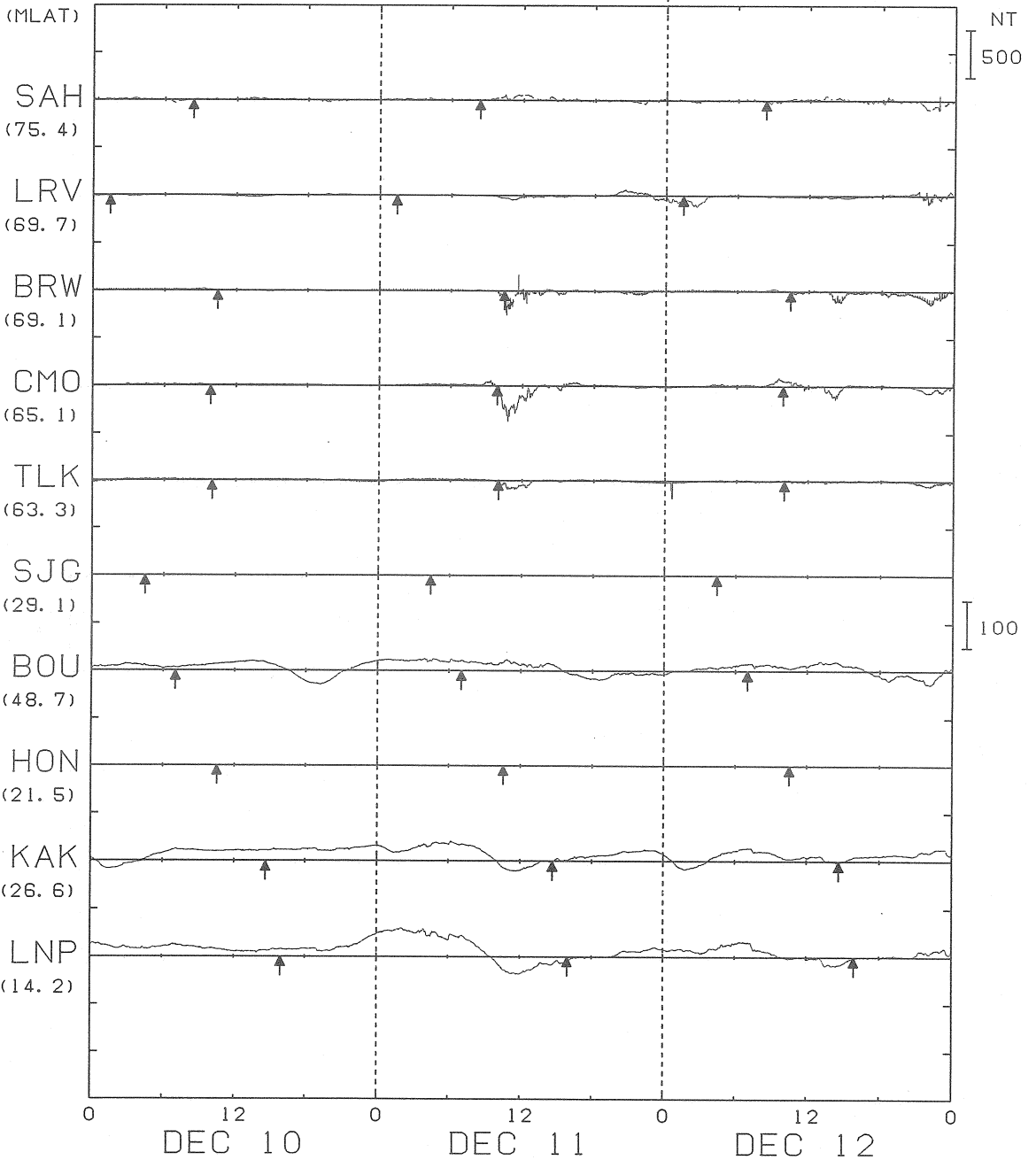
↑ : LOCAL MIDNIGHT



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

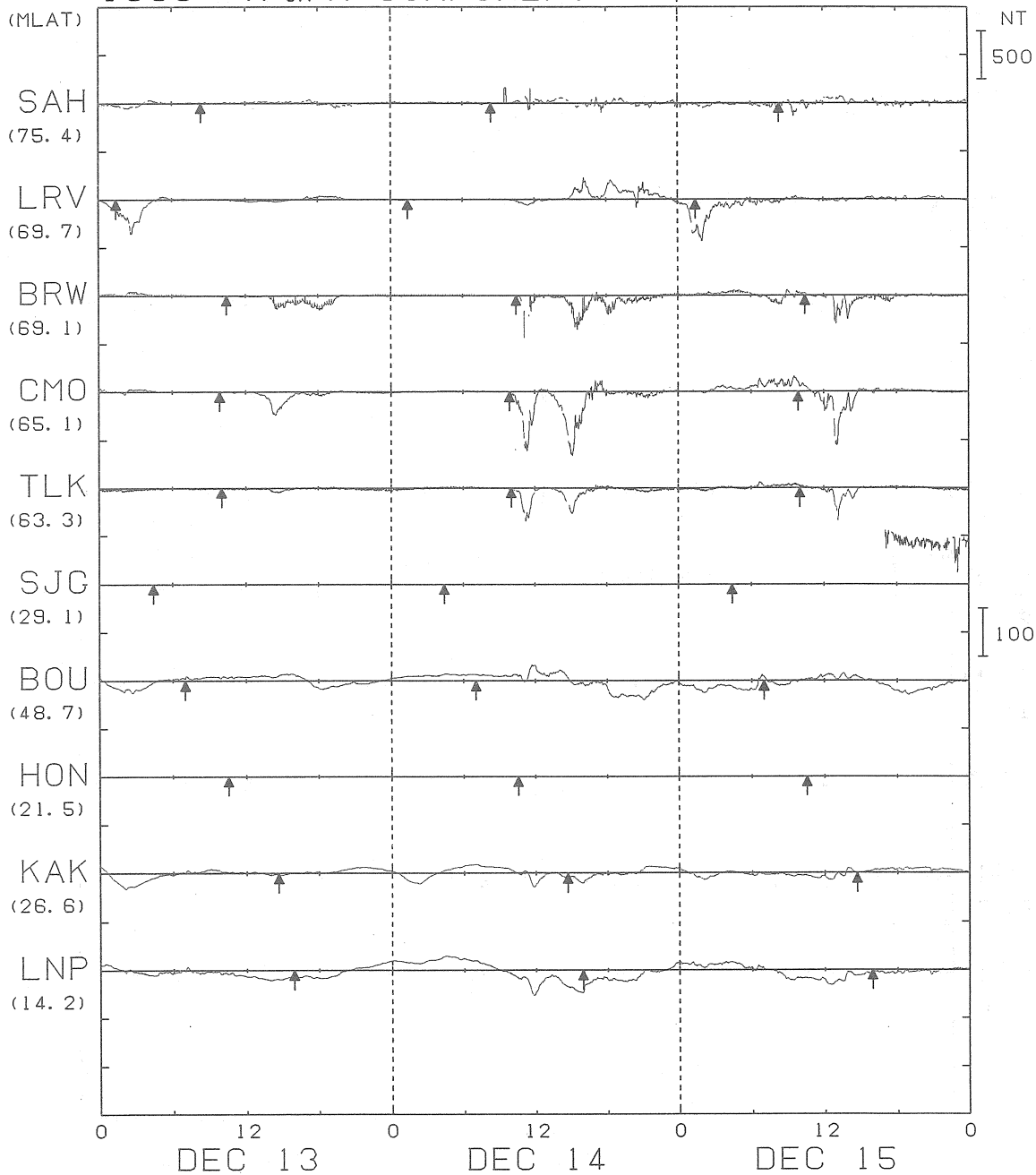
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



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

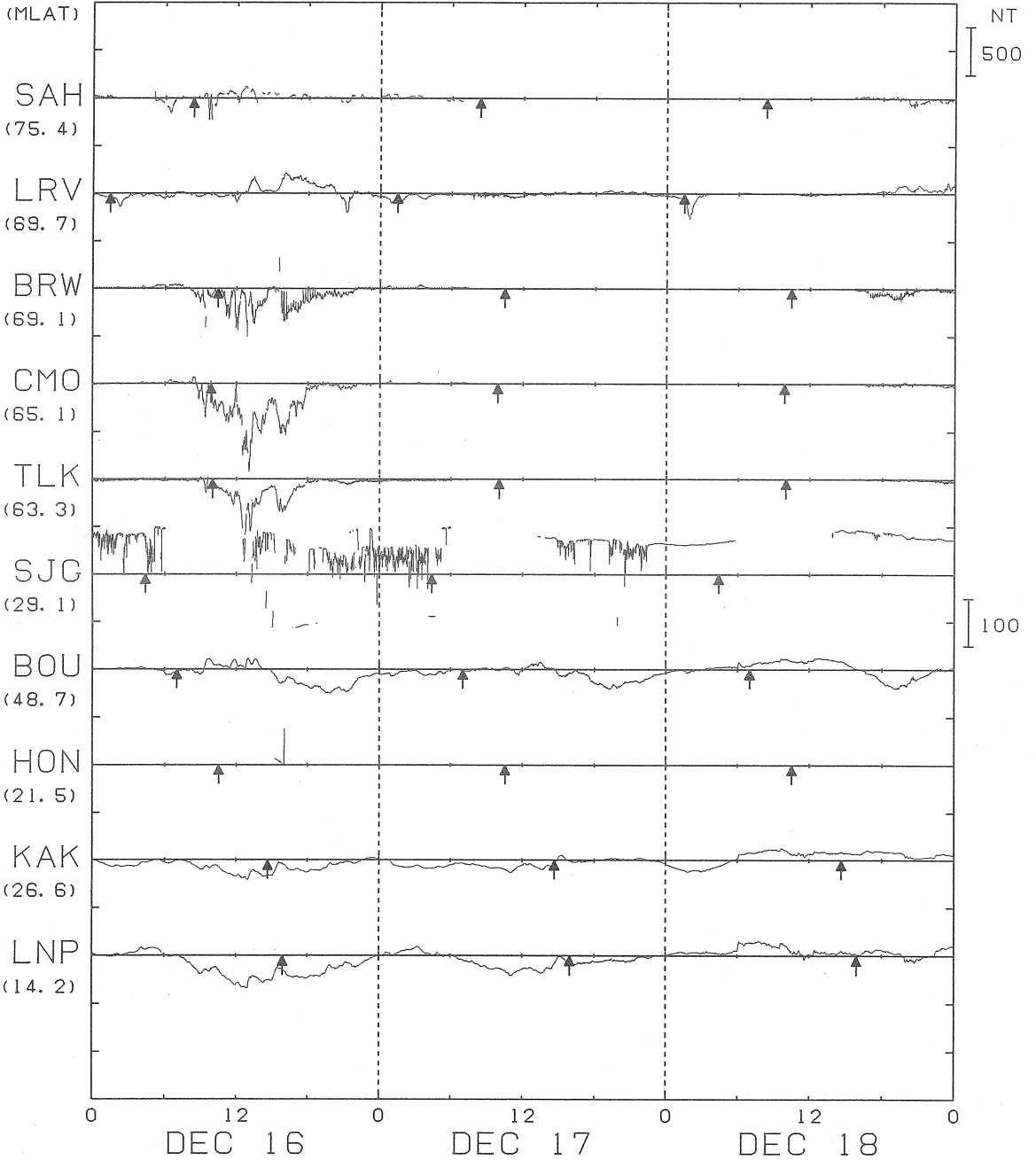
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

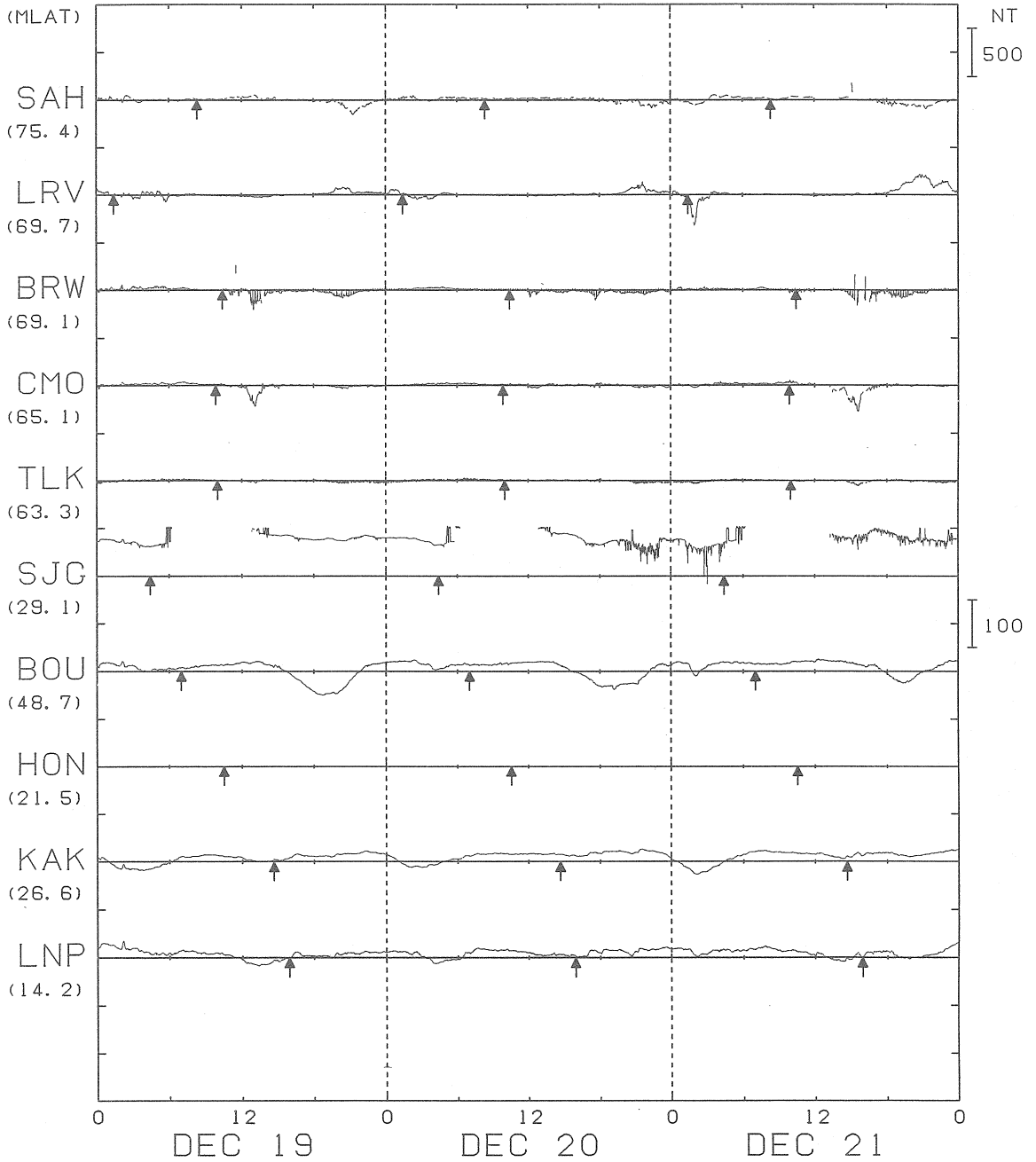
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



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

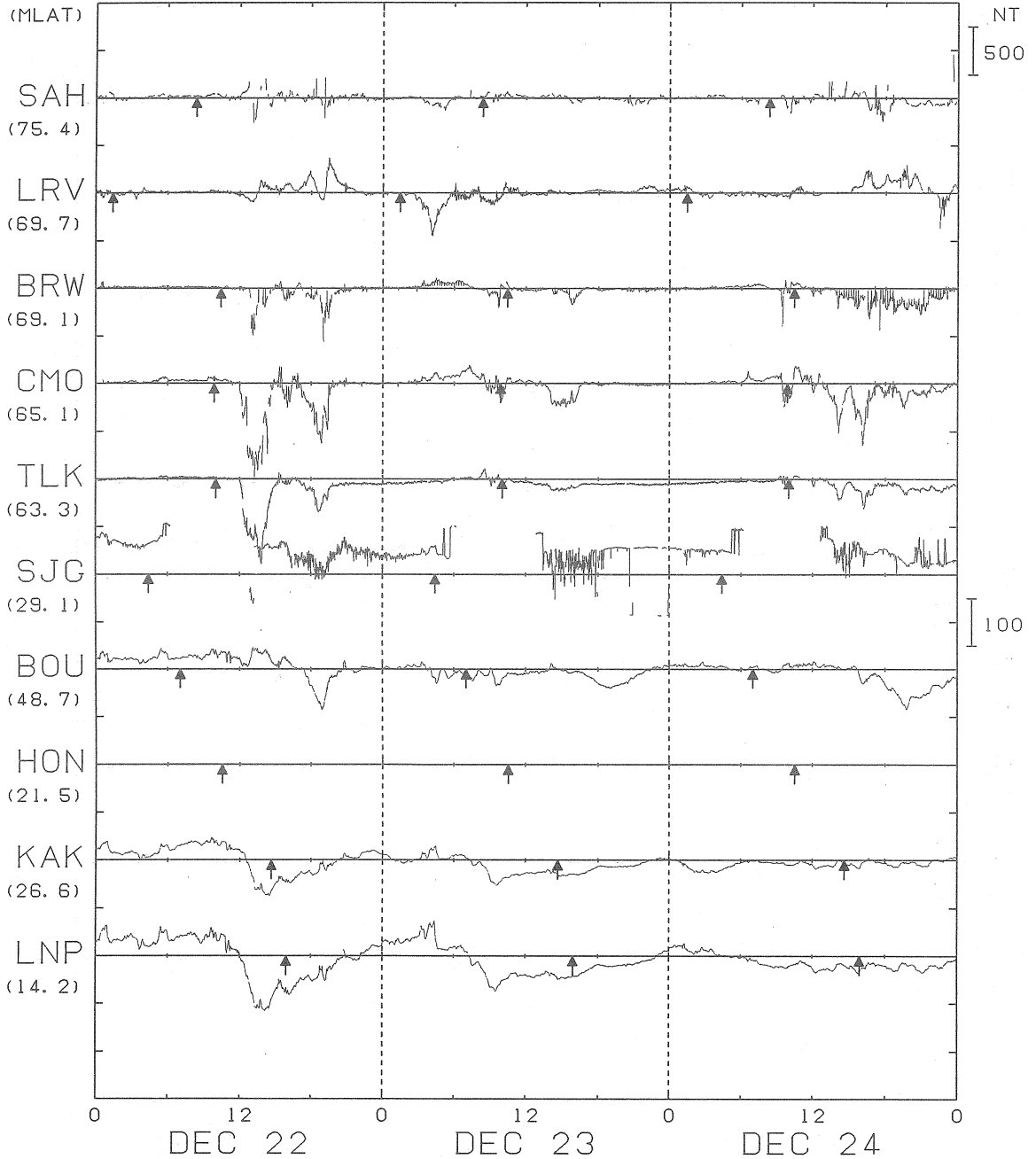
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

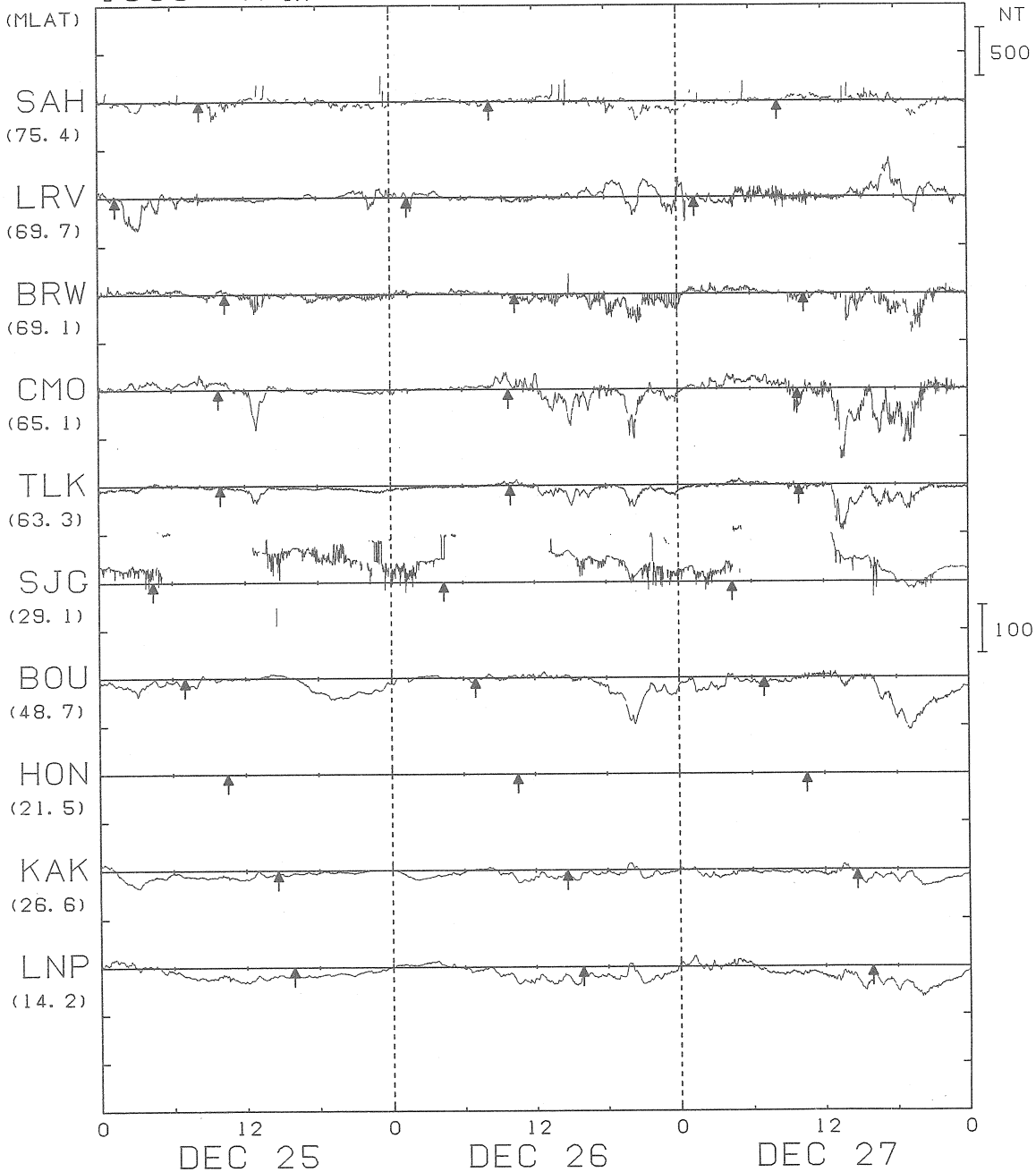
1989 H OR X-COMPONENT

↑ : LOCAL MIDNIGHT



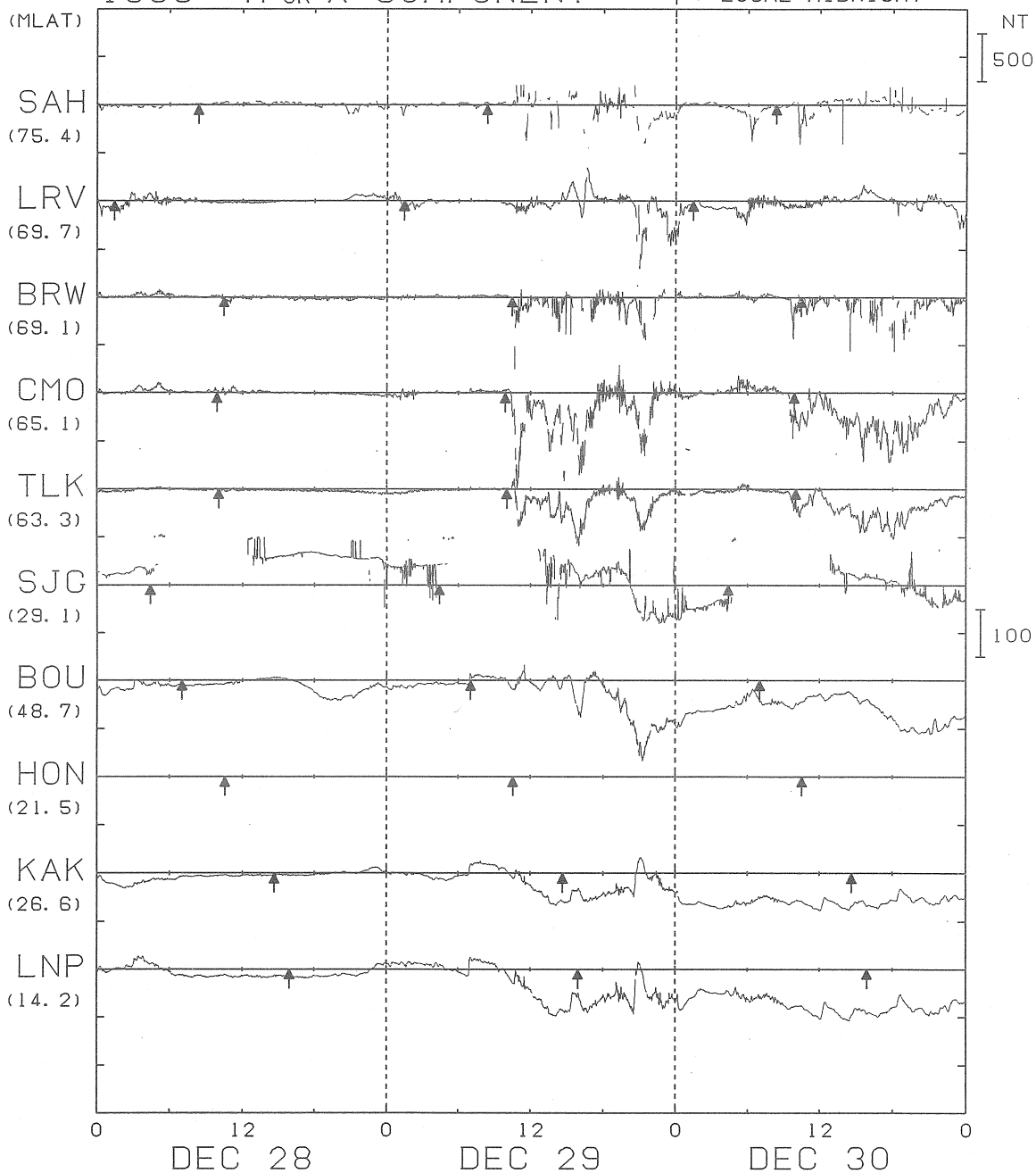
* MONTHLY MEAN OF 5-QUIET-DAYS SUBTRACTED
 * PROMPT DATA INCLUDED
 * ARTIFICIAL NOISE NOT ELIMINATED ENOUGH

1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

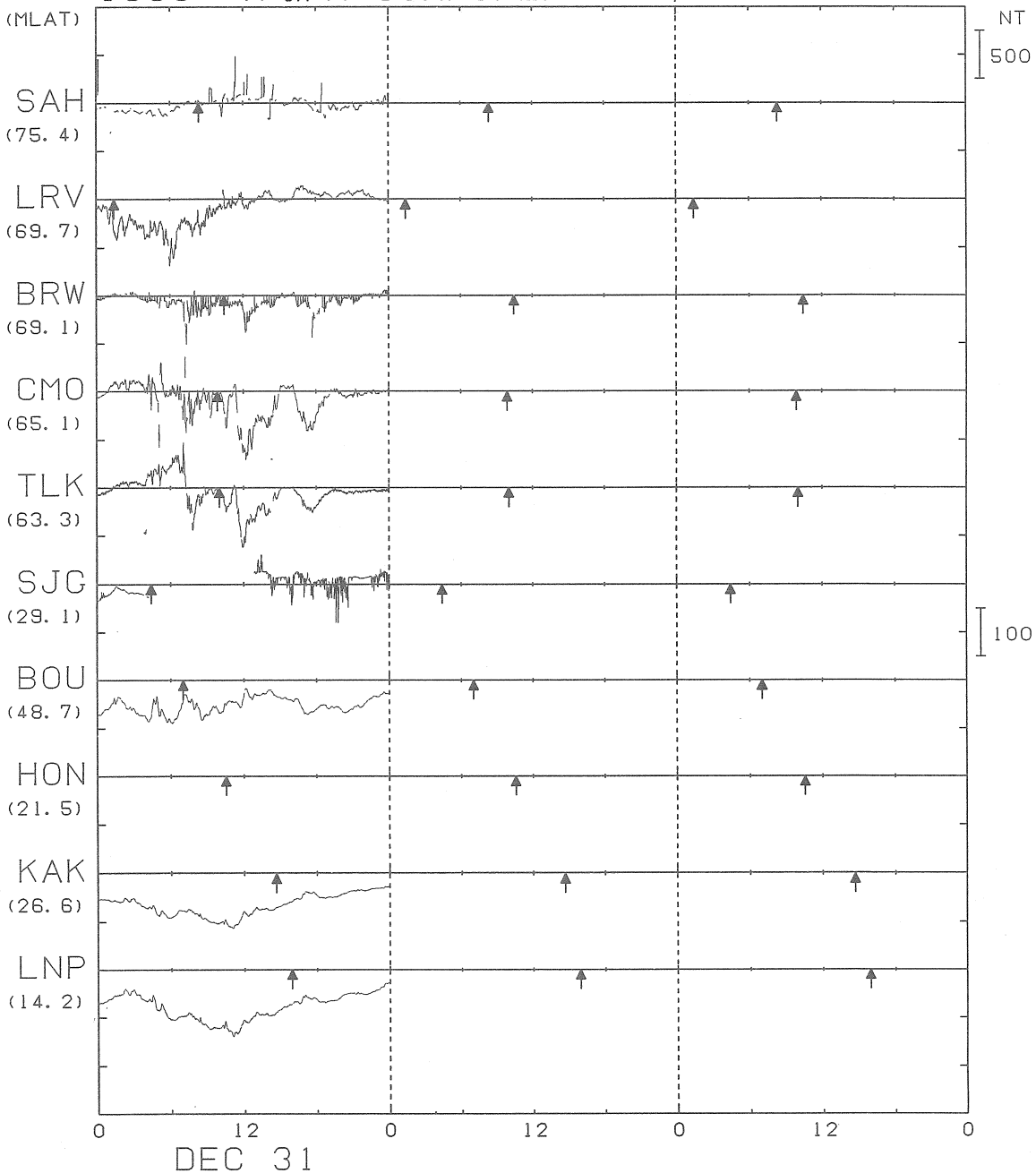
1989 H OR X-COMPONENT ↑ : LOCAL MIDNIGHT



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

1989 H_{0R} X-COMPONENT

↑ : LOCAL MIDNIGHT



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

