SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT, NTS EVENT 'EDAM', 24 APRIL 1975

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Teledyne Geotech

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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
NTS Event "EDAM", 24 April 1975

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September 1975

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SDCS Event Report No. 20

NTS Event "EDAM", 24 April 1975

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	Origin Time	Latitude	Longitude	m_b	M_s
NORSAR	N/A	N/A	N/A	N/A	N/A
LASA	N/A	N/A	N/A	N/A	N/A
PDE	14:10:00	37.1N	116.1W	4.6	N/A
Hagfors Array, Sweden	N/A	N/A	N/A	N/A	N/A

Using SDCS stations and LASA, the epicenter location becomes

SDCS & Arrays	14:10:00	37.0N	116.4W	4.8	3.6

All SDCS stations were operational for this event.

Short-period signals associated with this event were recorded at RK-CN, CPSO, HN-ME, and LASA. The signal was not observed at FN-WV. The apparent signal at WH2YK was not used in the hypocenter and magnitude calculations due to timing uncertainties. NORSAR did not report this event.

Analysis of long-period records yielded a definite signal only at WH2YK. There were weak indications at CPSO and FN-WV. The long-period array beams from NORSAR were not recoverable.

Details of the program used to obtain beam vertical, radial and transverse long-period data at LASA, ALPA and NORSAR are in the process of being reviewed. Vertical beams are probably valid while horizontal beams are questionable.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument reponse) with the exception of LASA and NORSAR short-period plots. LASA SP scaling factors are millimicrons per inch. Scaling factors are not reported for NORSAR short-period.

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES DEG MN SECS	ELEVATION METERS	INSTRUMENTATION SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65 14 00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinnville, Tennessee	35 35 41.4 N 085 34 13.5 W	574	o480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38 32 58.0 N 079 30 47.0 W	910	KS36000	KS36000
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	18300	SL220 V SL220 H
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H
RK-ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
WH2YK	White Horse, Yukon	60 41 41.0 N 134 58 02.0 W	853	18300	SL210 V SL220 H

HYPOCENTER DETERMINATION

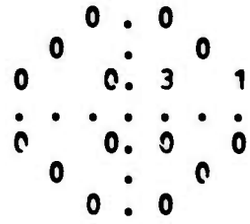
INPUT FOR EVENT 24 APR 75
14:10:00.0 37.000N 116.000W 0KM.

STA.	ARRIVAL	RESIDUALS CALC	RESIDUALS REST	DIST. REST	AZ. REST
LAO	14 12 54.9	-0.0	0.1	12.3	34.7
RF-ON	14 14 47.0	-0.0	-0.2	21.3	42.3
CPO	14 15 22.2	-0.0	-0.0	24.8	83.9
WH2YK*	14 16 10.2	25.1 *	32.5 *	26.5	339.4
HN-HE	14 17 08.7	-0.0	0.1	36.8	60.1

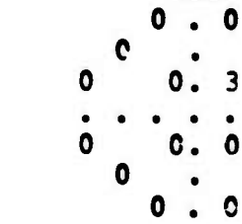
67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
14:10:13.6	37.322N	115.368W	52. CALC	0.0	14	4
14:09:59.5	36.977N	116.368W	0. REST	0.2	3	4

CALC



REST



CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 1.95
MAJOR 425.1KM. MINOR 69.3KM. AZ= 81 AREA= 92519 SQ.KM. REST

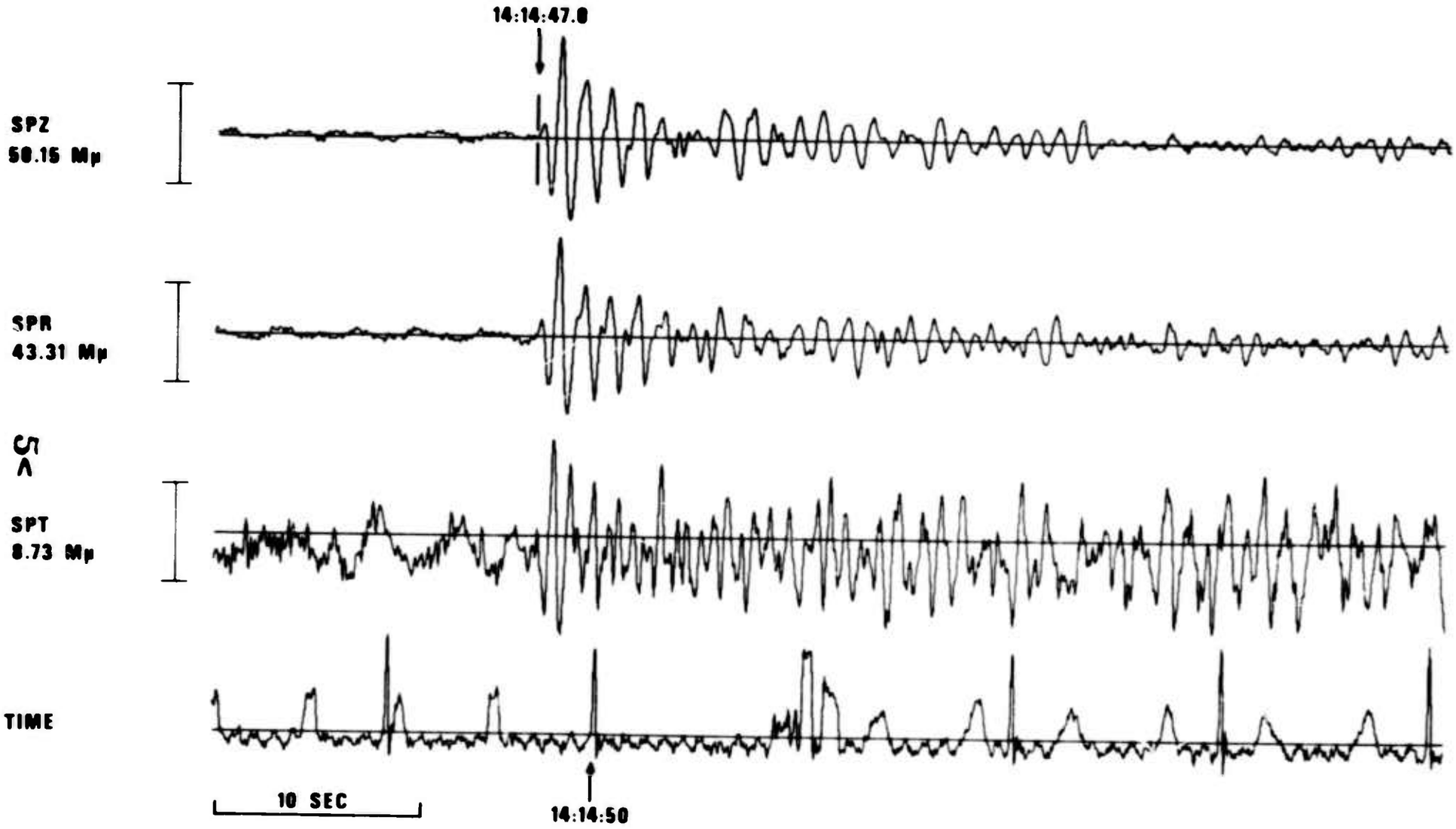
DATA SUMMARY

INPUT FOR EVENT 24 APR 75
14:10:00.0 37.000N 116.000W 0KM.

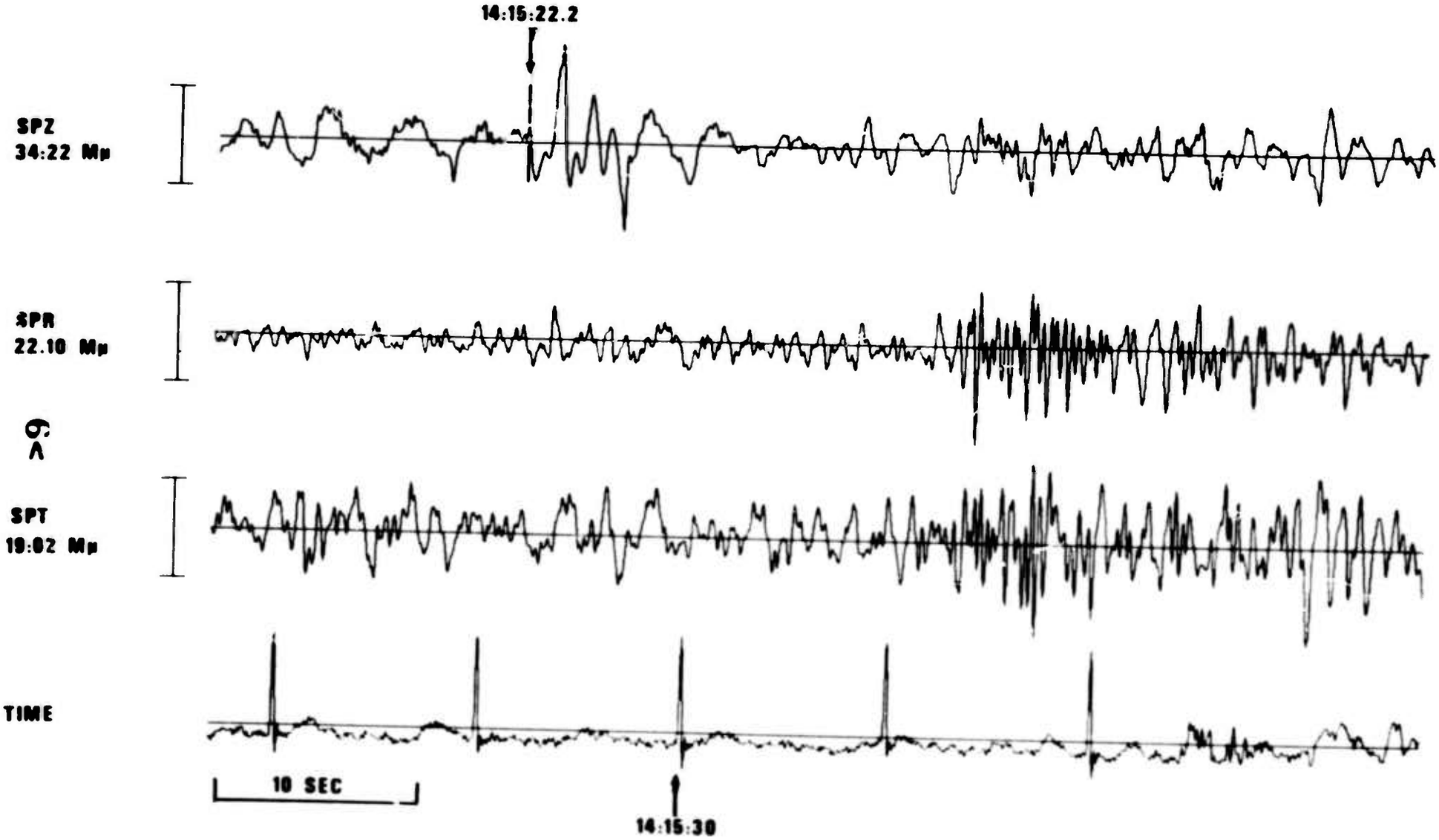
STA.	PHASE	ARRIVAL TIME	INST	PER	A/T	MAGNITUDE MB	MS	DIR	DIST
LAO	EP	14 12 54.9	SPZ	0.7	??				
RK-ON	EP	14 14 47.0	SPZ	1.0	105.	4.85			21.3
CPO	EP	14 15 22.2	SPZ	1.1	51.	4.87			24.8
WH2YK*	EP	14 16 10.2	SPZ	1.0	6.	3.93			26.5
WH2YK	LQ	14 25 21.0	LPT	20.0	7.				
WH2YK	LR	14 27 22.0	LPZ	18.0	11.		3.58		26.5
HN-HE	EP	14 17 08.7	SPZ	1.0	23.	4.58			36.8

ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA	LPMAG	LPSDV	LPSTA
14:10:13.6	37.322N	115.368W	52. CALC	4.72	0.07	3	3.58	******	1
14:09:59.5	36.977N	116.368W	0. FEST	4.77	0.16	3	3.58	******	1

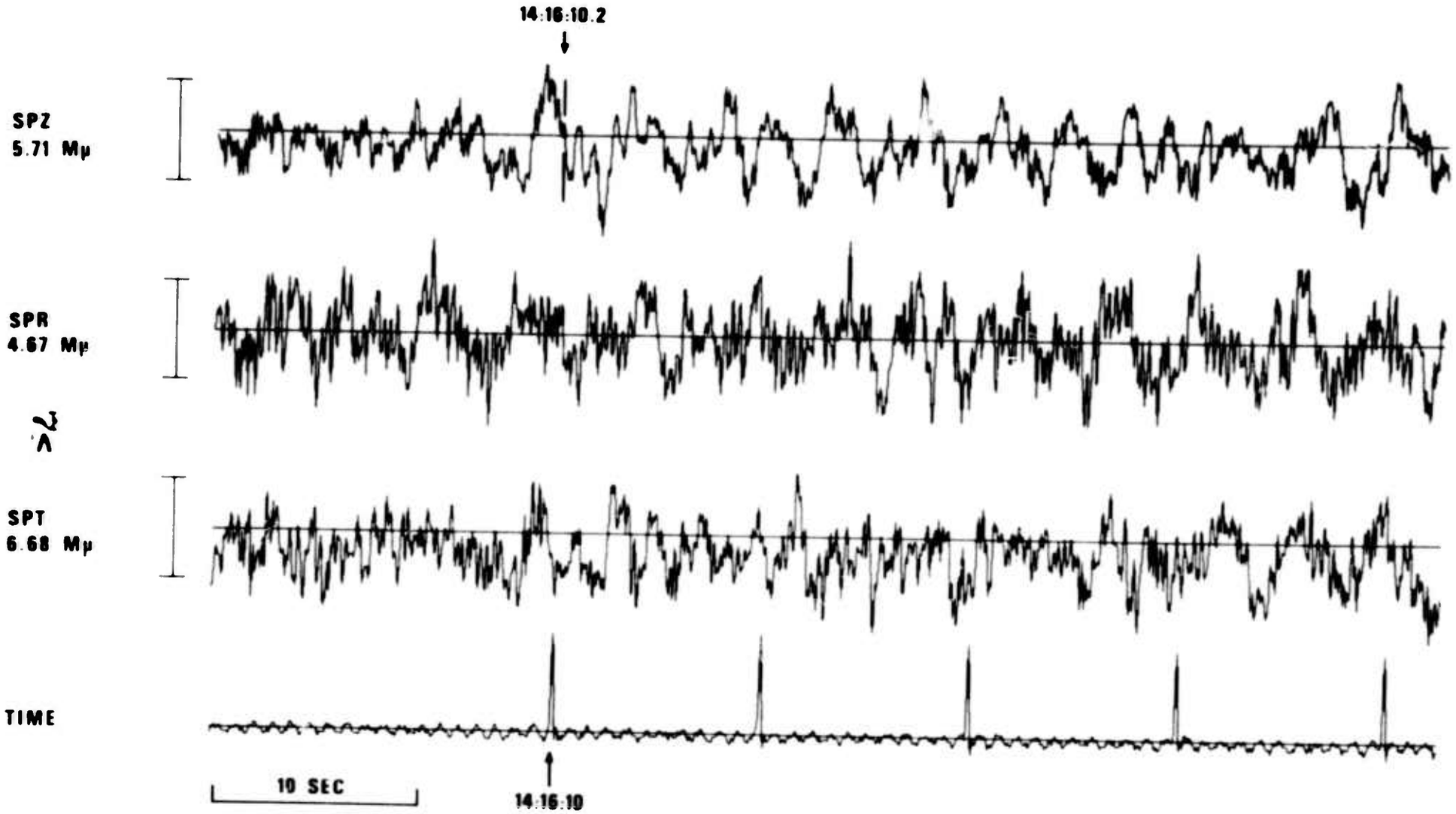
RK-ON 24 APRIL 75



CPSO 24 APRIL 75

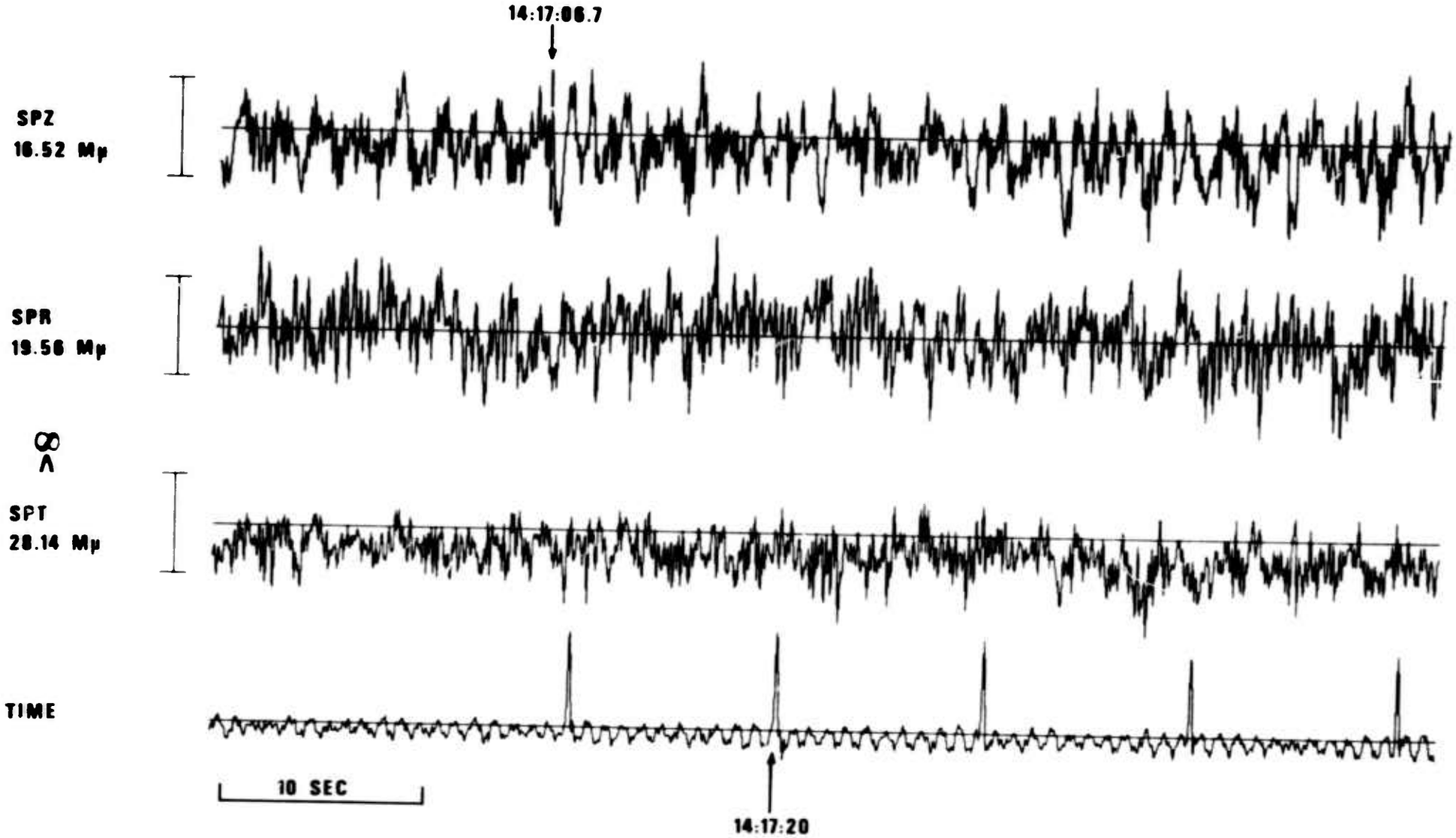


WH2YK 24 APR 75

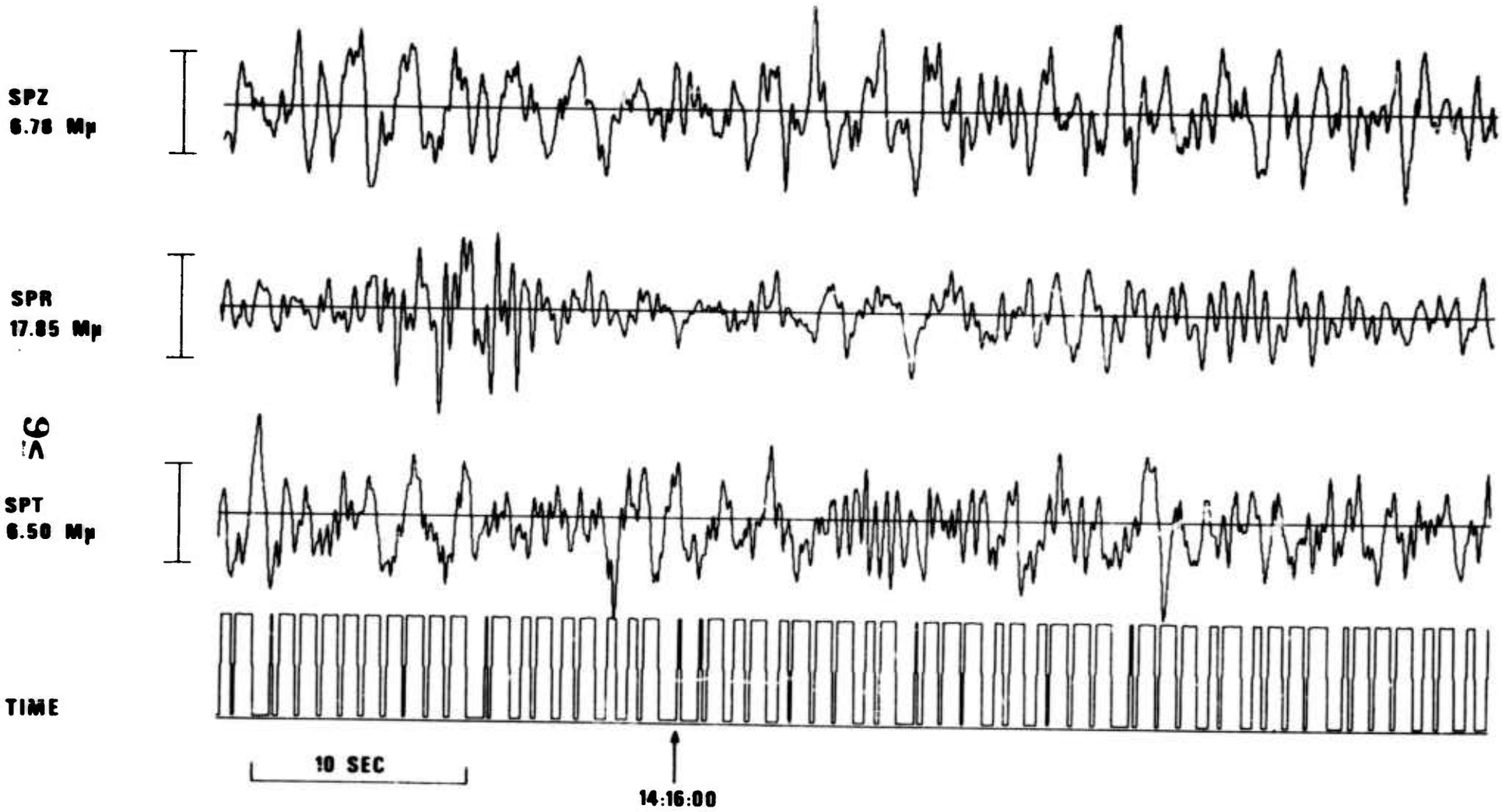


(-30 SECOND TIME CORRECTION)

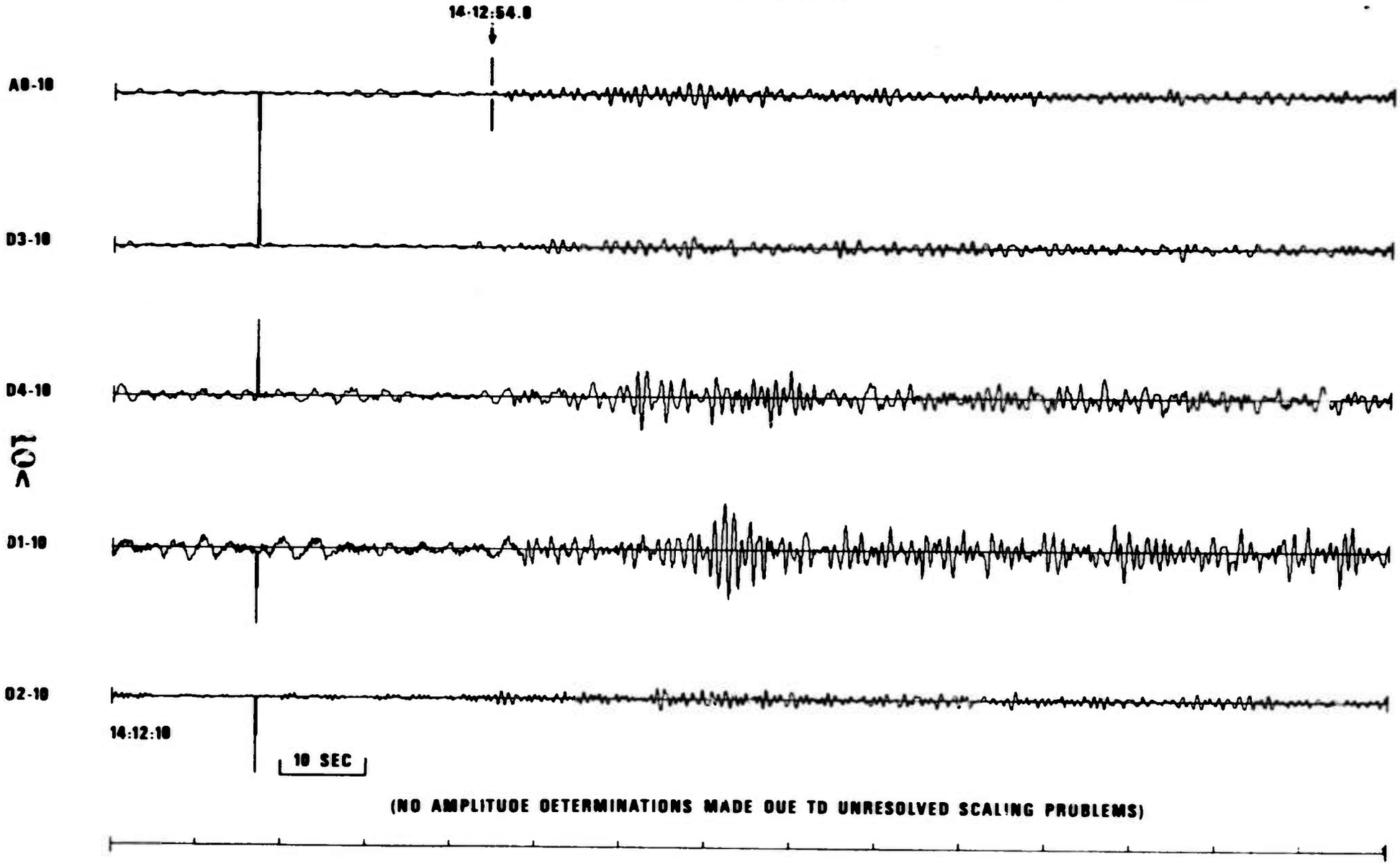
HN-ME 24 APRIL 75



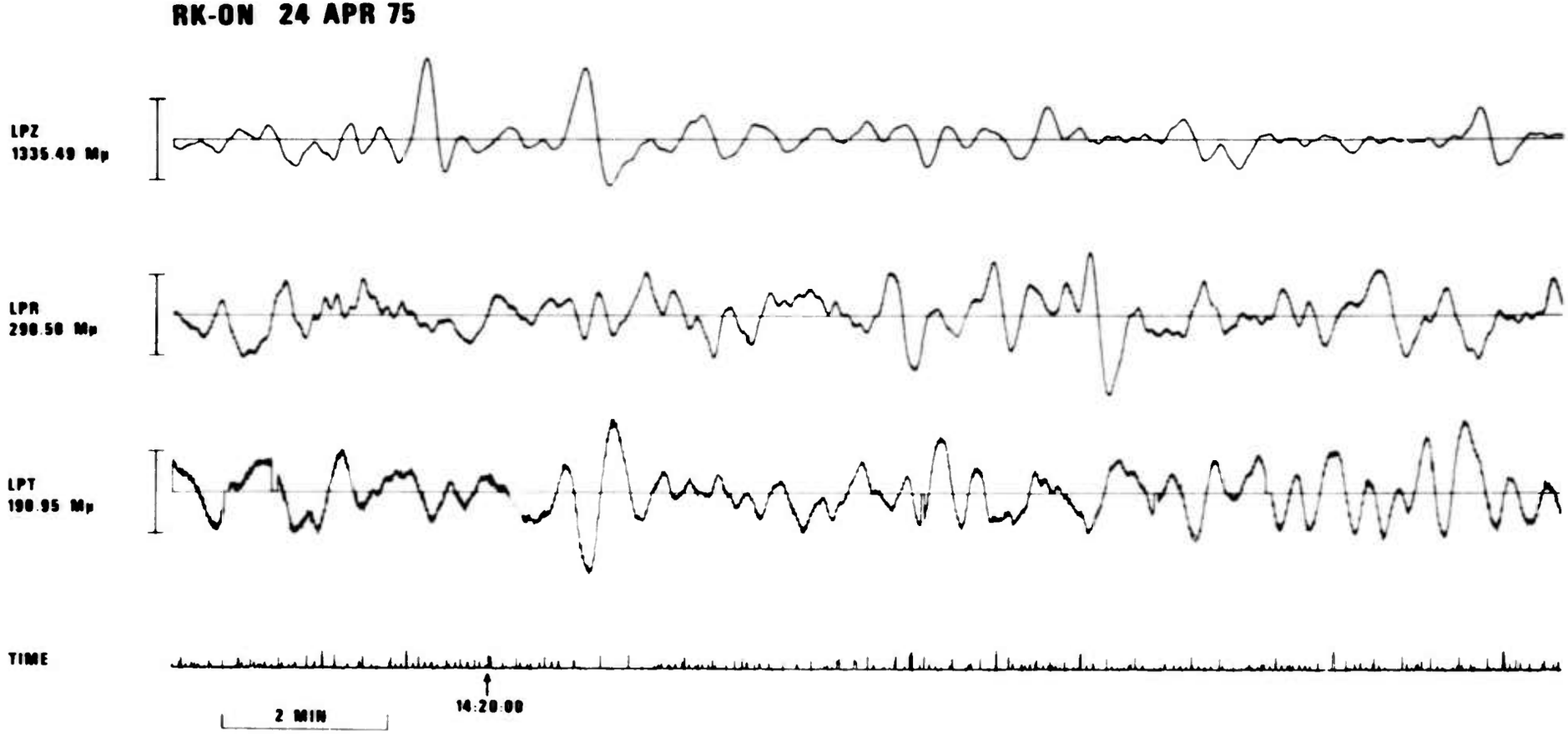
FN-WV 24 APRIL 75

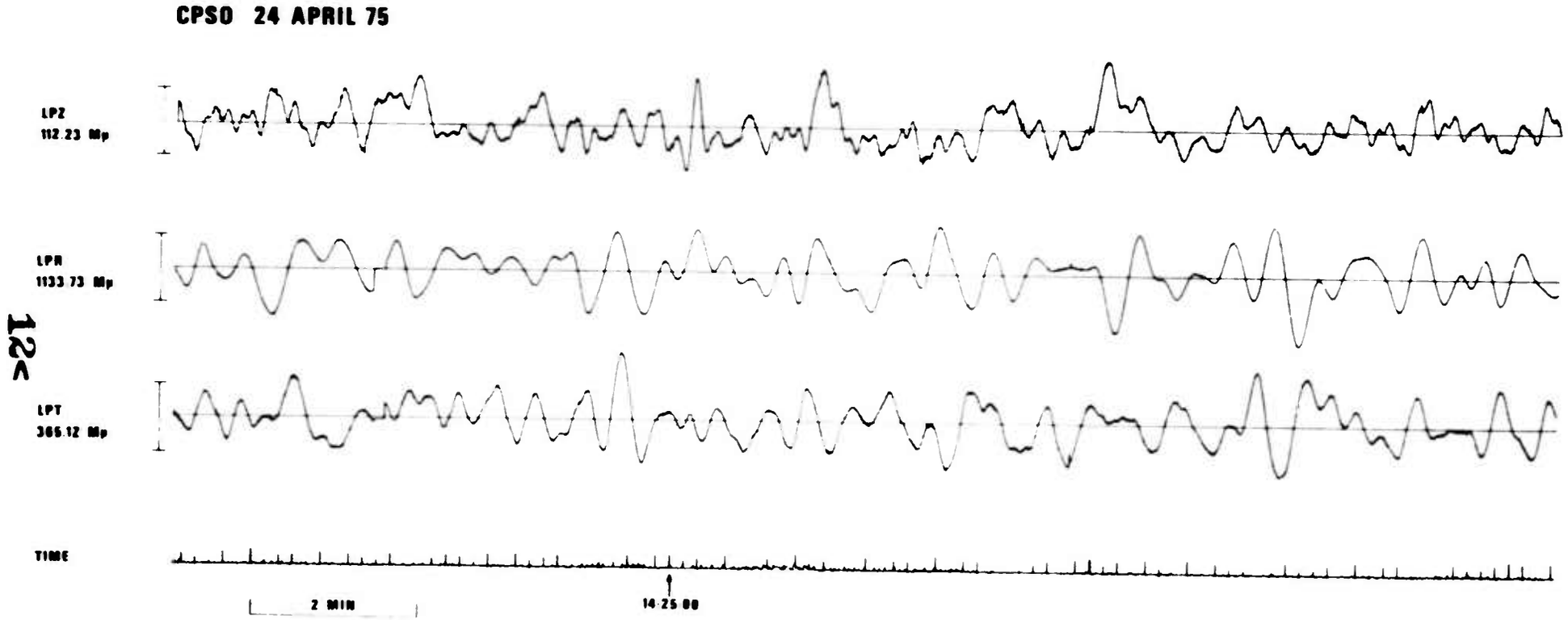


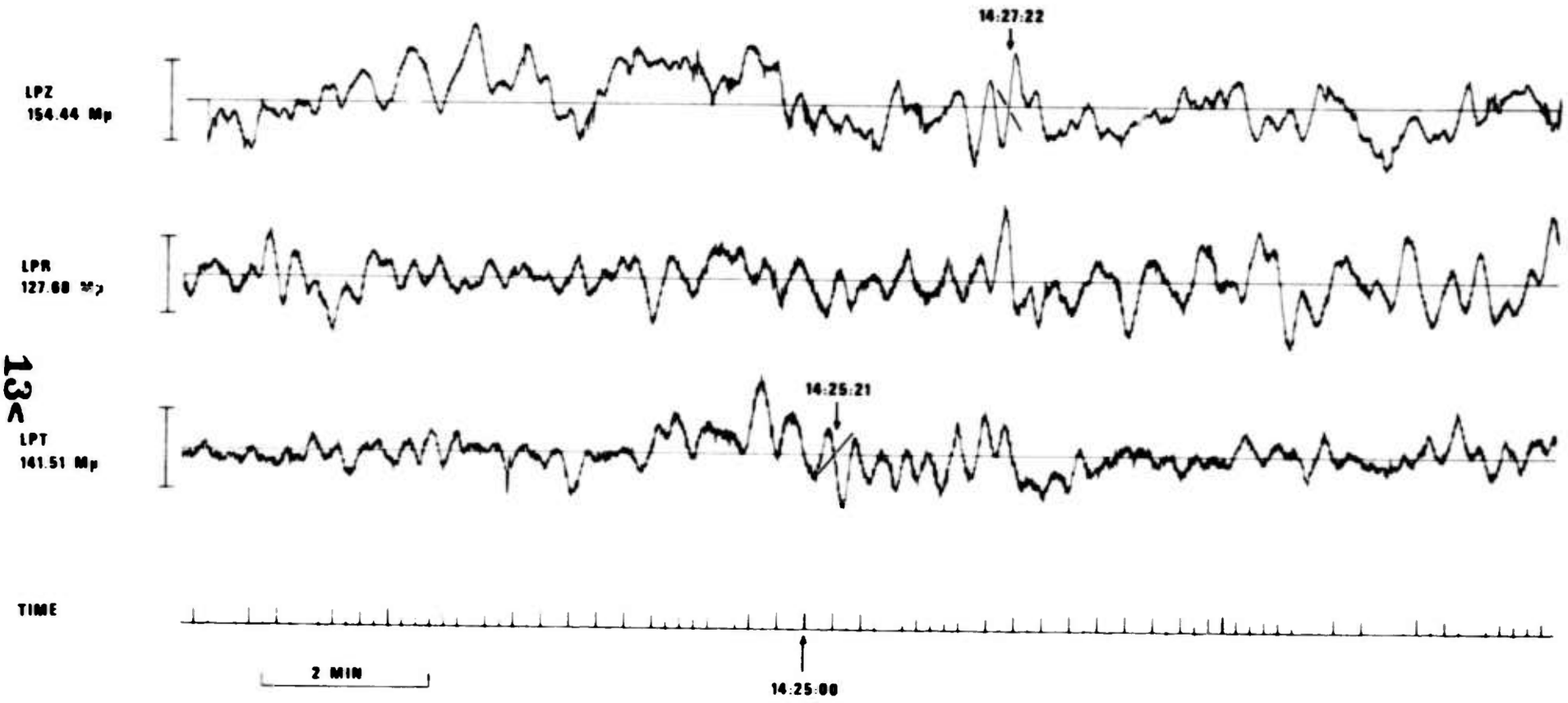
LASA (SHORT-PERIOD HIGH-GAIN INSTRUMENTS) 24 APR 75



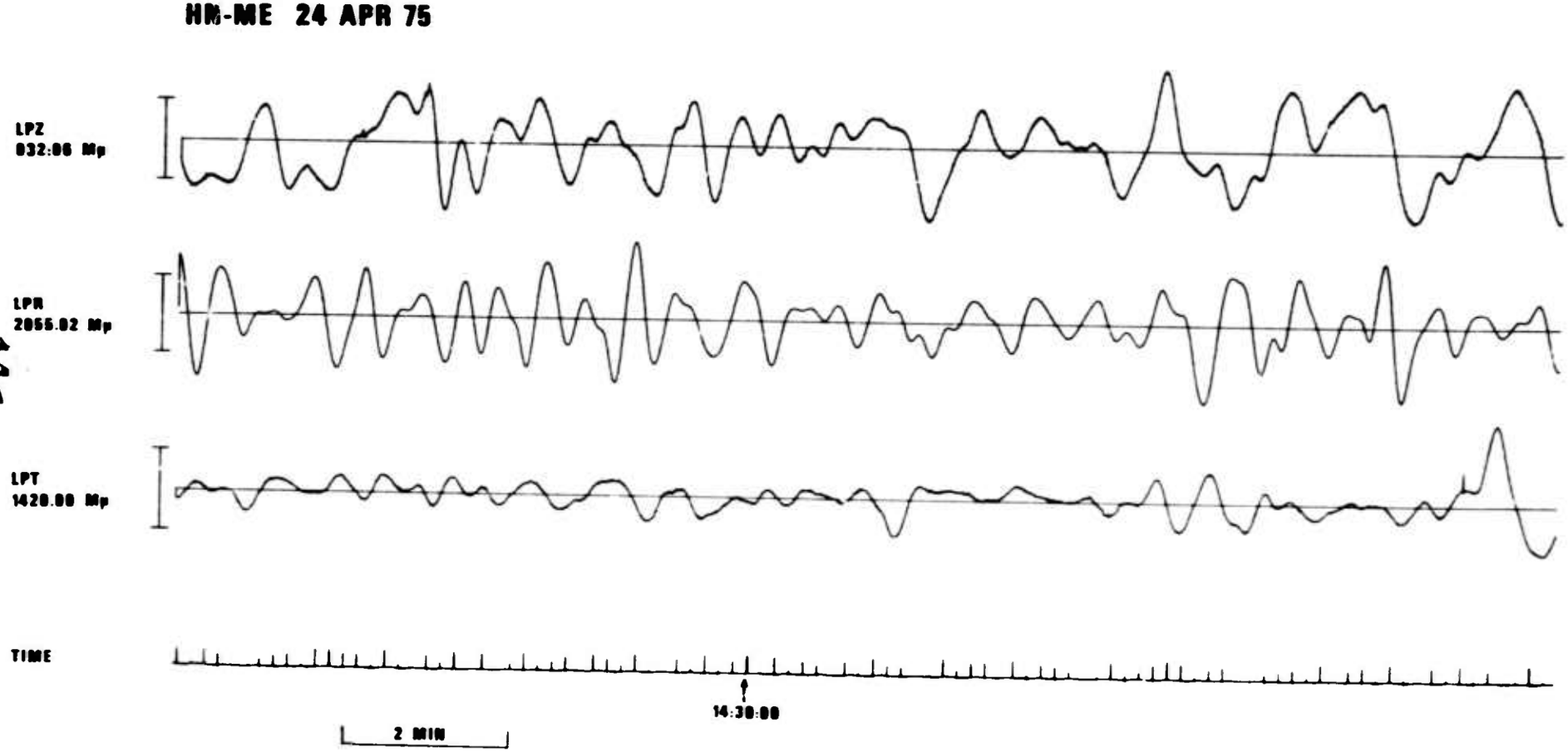
(NO AMPLITUDE DETERMINATIONS MADE DUE TO UNRESOLVED SCALING PROBLEMS)

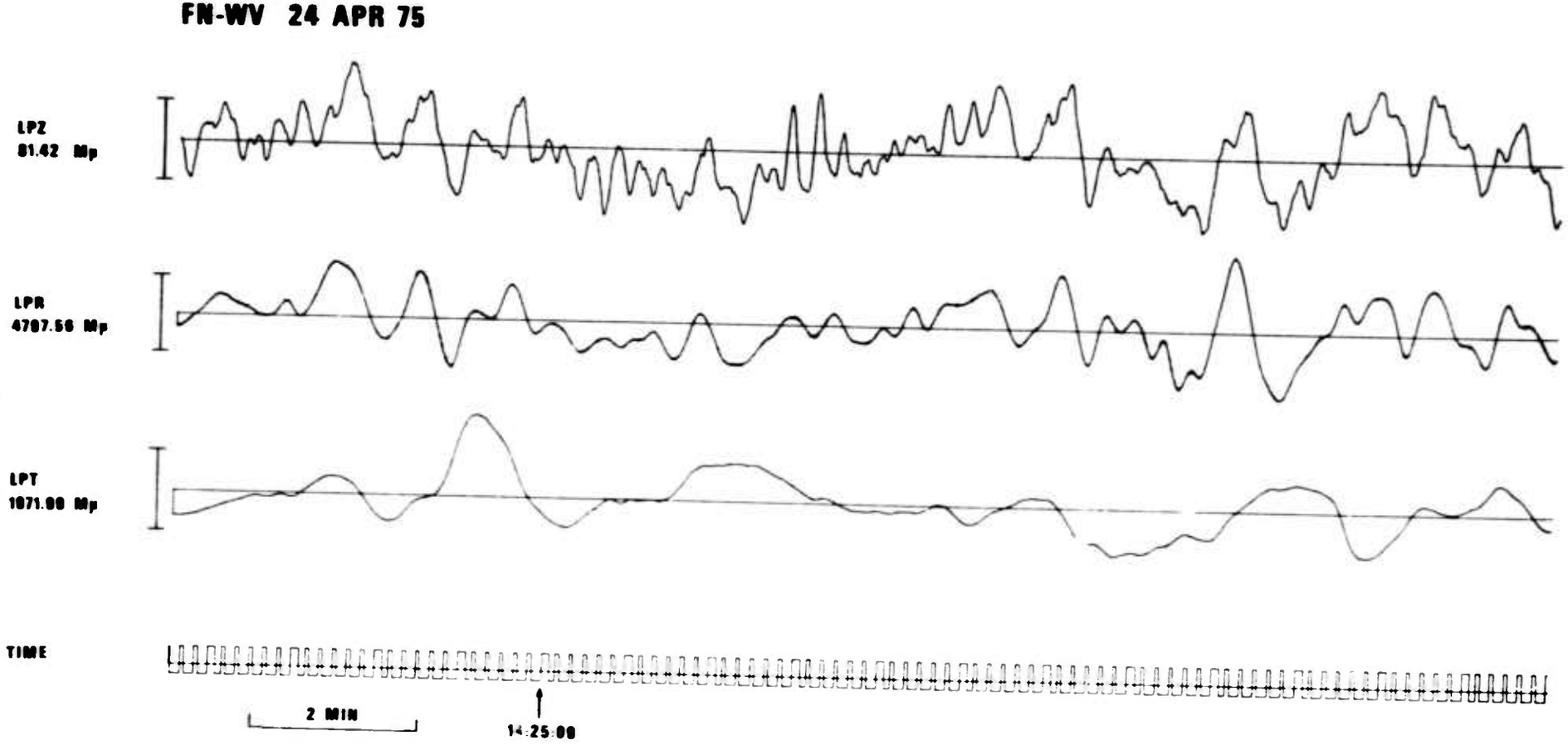

RK-ON 24 APR 75
LPZ
1335.49 Mp
LPR
298.58 Mp
LPT
198.95 Mp
TIME
14:20:00
2 MIN


CPSO 24 APRIL 75
LPZ
112.23 Mp
LPR
1133.73 Mp
LPT
365.12 Mp
TIME
2 MIN
14:25:00

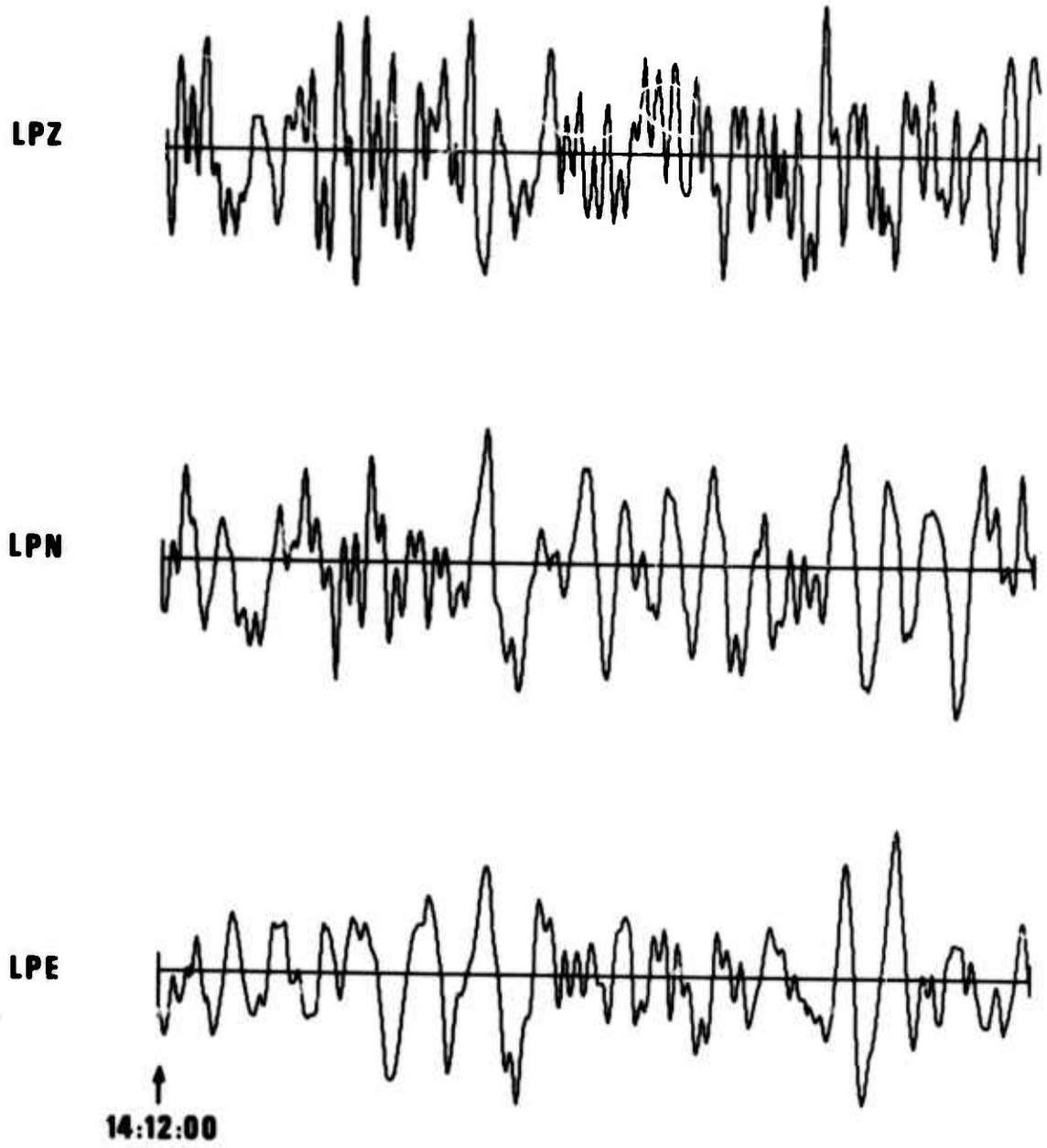


(APPROXIMATE -30 SECOND TIME CORRECTION)


HN-ME 24 APR 75
LPZ
832.86 Mp
LPR
2855.82 Mp
LPT
1420.88 Mp
TIME
14:38:00
2 MIN

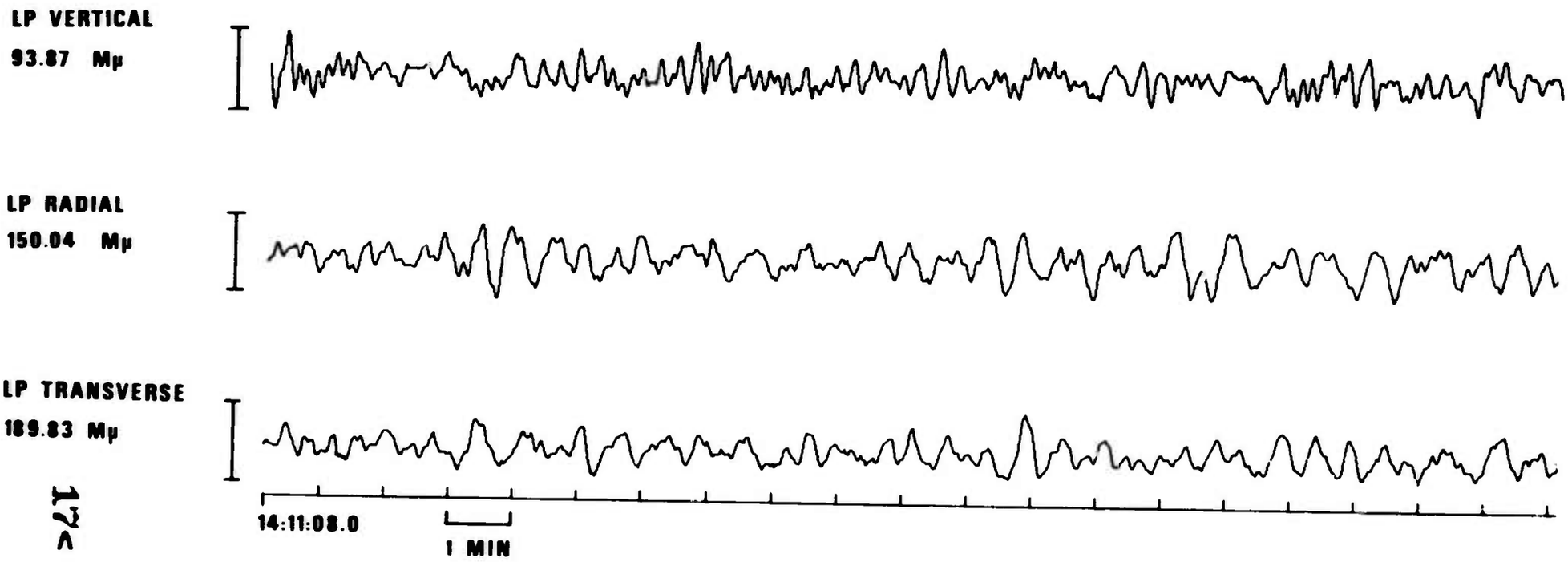

FN-WV 24 APR 75
LPZ
81.42 Mp
LPR
4787.56 Mp
LPT
1071.88 Mp
TIME
2 MIN
14:25:00

LASA C4 SUBARRAY 24 APRIL 75



(NO AMPLITUDE DETERMINATIONS MADE DUE TO UNRESOLVED SCALING PROBLEMS)

LASA LONG-PERIOD BEAMS 24 APRIL 75



ALPA LONG - PERIOD BEAMS 24 APRIL 75