SPECIAL DATA COLLECTION SYSTEM EVENT REPORT - MEXICO, 04 MAY 1975

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Teledyne Geotech

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SDCS-ER-75-37

SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Mexico, 04 May 1975

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1.

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

SDCS Event Report No. 37

Mexico, 04 May 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	15:23:11	13.8N	095.0W	4.7	N/A
LASA	15:23:06	13.3N	093.5W	4.7	N/A

Using SDCS stations, LASA and NORSAR, the epicenter location and magnitudes become

15:23:11.8	14.6N	094.2W	4.7	4.0

All SDCS stations were operational during this period.

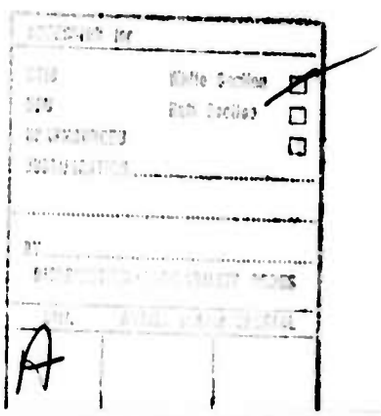
Short-period signals associated with this event were recorded at CPSO, RK-ON, LASA and NORSAR. Horizontal channels at FN-WV were not rotated due to unknown instrument orientation.*

Long-period signals were recorded at CPSO, FN-WV, RK-ON and ALPA. At HN-ME the LP transverse instrument was inoperative. Horizontal channels at FN-WV were not rotated due to unknown instrument orientation.* LP array beam data from NORSAR were unrecoverable.

Details of the program used to obtain beamed vertical, radial and transverse long-period data at ALPA and LASA 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 response) 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.

*Due to operational problems the instrument hole lock was repositioned and the known orientation lost. Situation corrected 24 May 75 when the instrument was moved to a new borehole.



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	6480 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	SL210 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

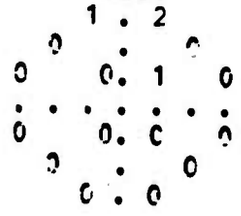
INPUT FOR EVENT 4 MAY 75
15:23:06.0 13.300N 93.500W 0KM.

STA.	ARRIVAL	RESIDUALS CALC	RESIDUALS REST	DIST. REST	AZ. REST
CPC	15 28 10.9	0.0	0.5	22.3	18.8
LAC	15 29 53.7	0.0	0.8	33.6	345.0
RK-ON	15 30 14.0	0.0	-1.4	36.2	0.6
NAO	15 35 46.2	0.0	0.1	84.6	28.4

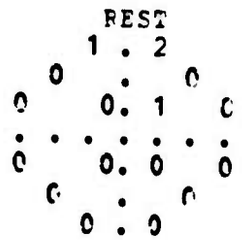
67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
15:24:12.6	17.465N	93.702W	428. CALC	0.0	6	4
15:23:11.8	14.561N	94.205W	0. REST	1.0	2	4

CALC



REST



CHI2 COVERAGE ELLIPSE: 95 PER CENT CONF..LEVEL, SDV= 1.26
MAJOR 91.9KM. MINOR 75.4KM. AZ= 34 AREA= 21767 SQ.KM. REST

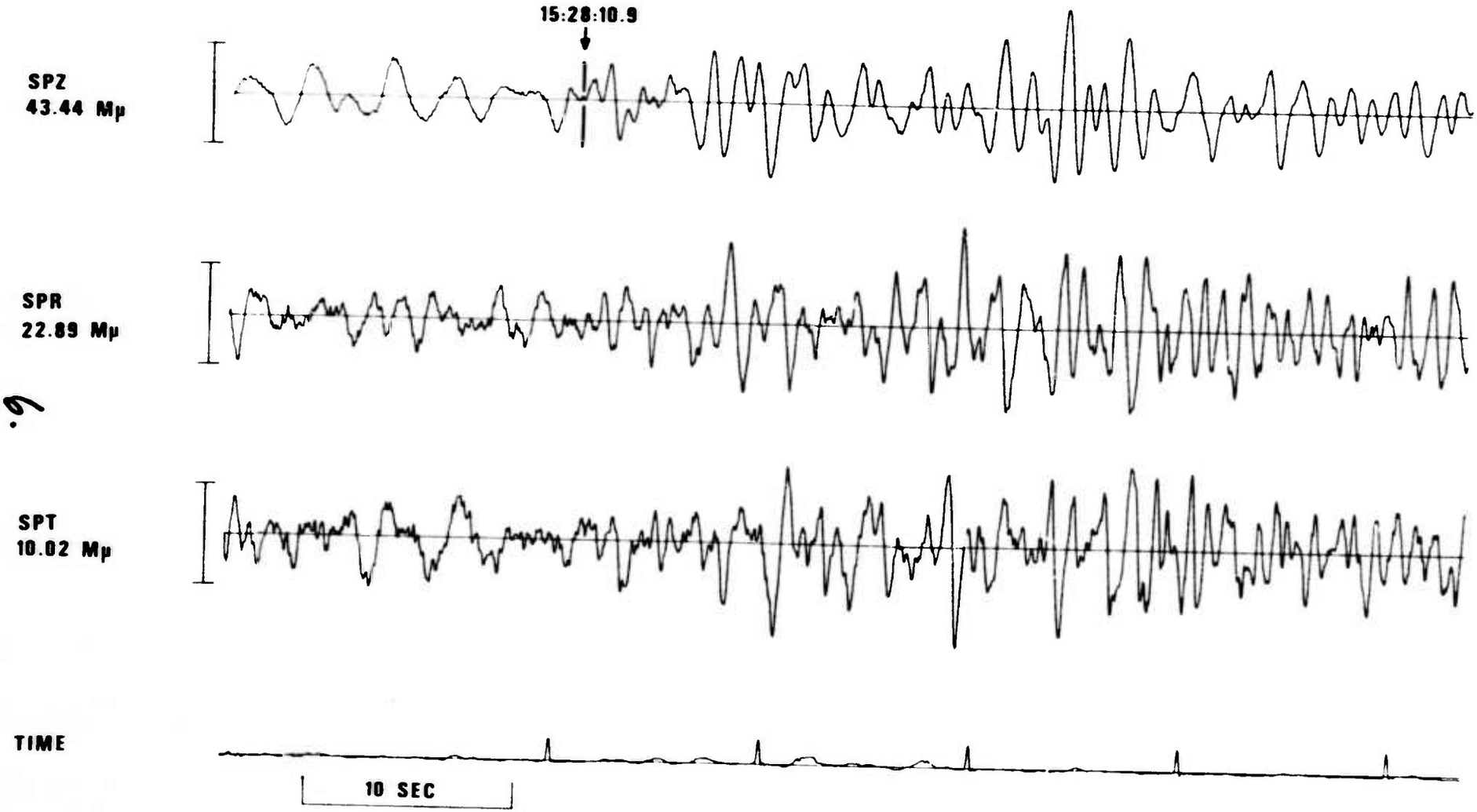
DATA SUMMARY

INPUT FOR EVENT 4 MAY 75
15:23:06.0 13.300N 93.500W 0KM.

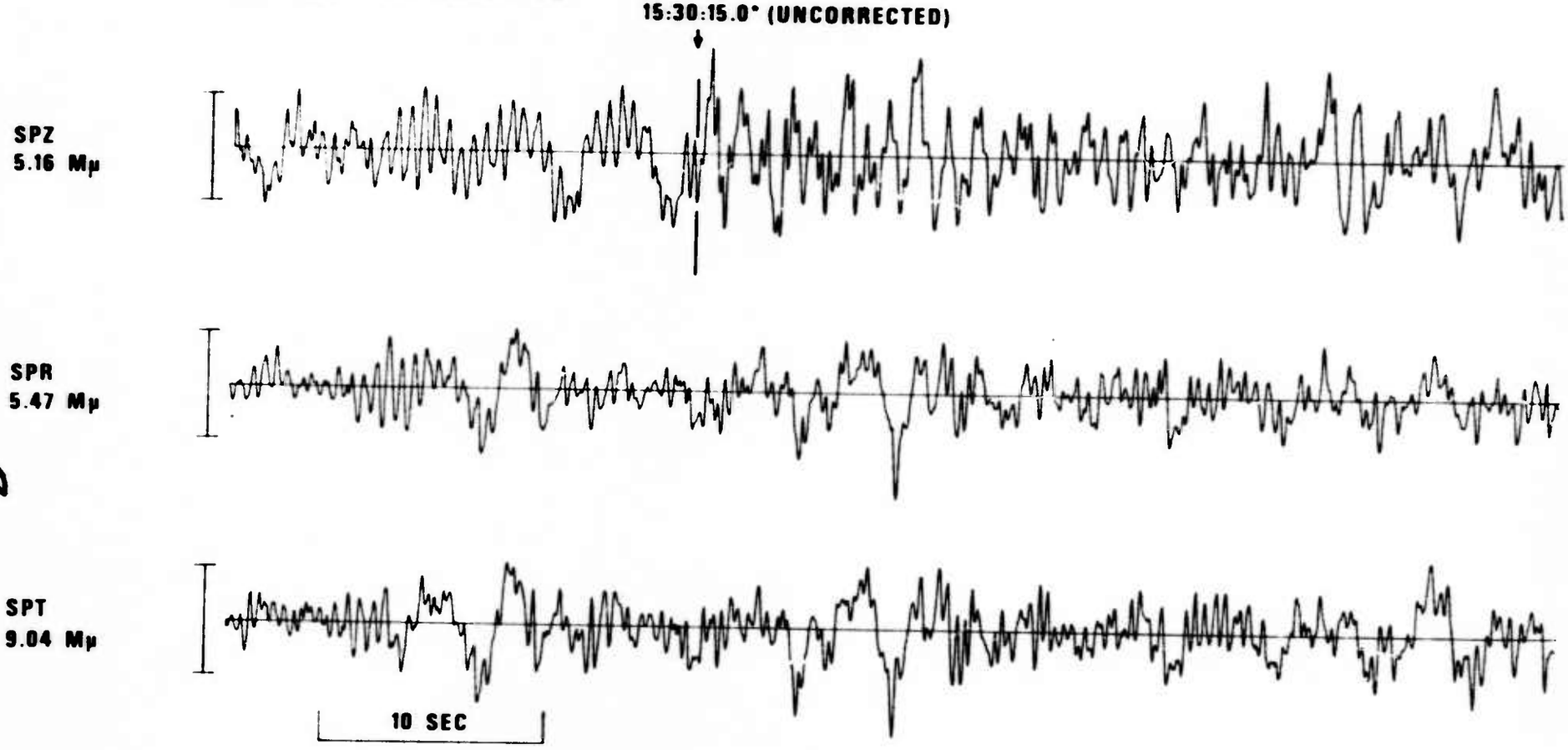
STA.	PHASE	ARRIVAL TIME	INST	PER	A/T	MAGNITUDE MB	MS	DIR	DIST
CPC	EP	15 28 10.9	SPZ	1.0	32.	4.44			22.3
CPC	LR	15 38 44.0	LPZ	22.0	22.		3.81		22.3
FN-WV	LR	15 41 33.0	IPZ	19.0	45.		4.21		27.2
LAC	EP	15 29 53.7	AB	1.4	34.	4.93			33.6
RK-ON	EP	15 30 14.0	SPZ	1.2	12.	4.36			36.2
RK-ON	E	15 44 39.0	LPR	26.0	6.				
WH2YK	LR	15 59 18.0	LPZ	17.0	19.		4.14		54.7
ALPA	LQ	15 58 07.0	LPP	22.0	3.				
ALPA	LR	16 03 16.0	LPZ	19.0	11.		3.95		62.0
NAC	EP	15 35 46.2	AP	1.5	21.	5.02			84.6

ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA	LPMAG	LPSDV	LPSTA
15:24:12.6	17.465N	93.762W	42E. CALC	4.26	0.29	3	3.99	0.2	4
15:23:11.8	14.561N	94.205W	C. REST	4.69	0.34	4	4.03	0.2	4

CPO NOT USED IN CALC RUN SP AVG. MAG.

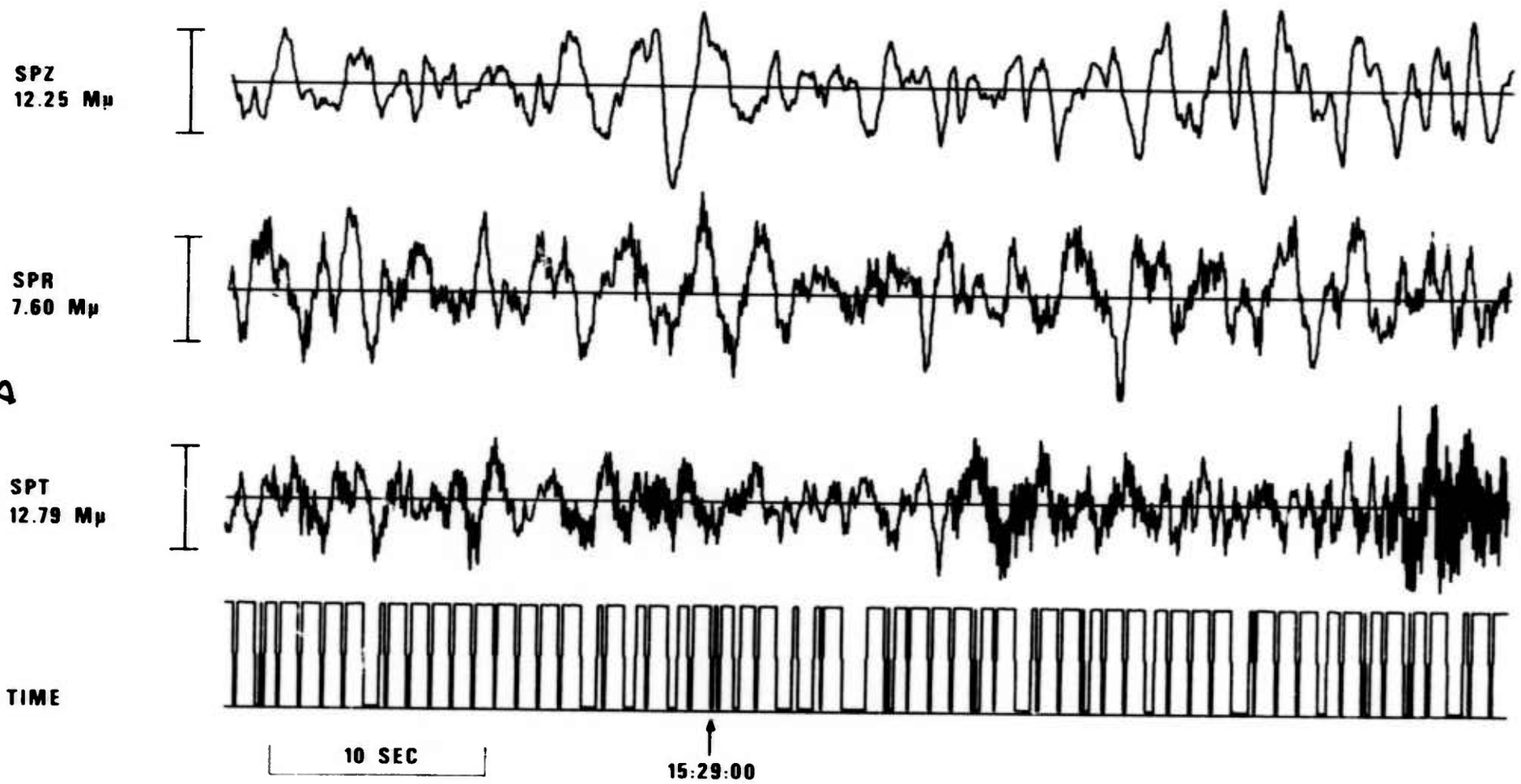

CP-SO 04 MAY 75
15:28:10.9
SPZ
43.44 Mμ
SPR
22.89 Mμ
SPT
10.02 Mμ
TIME
10 SEC

RK-ON 04 MAY 75

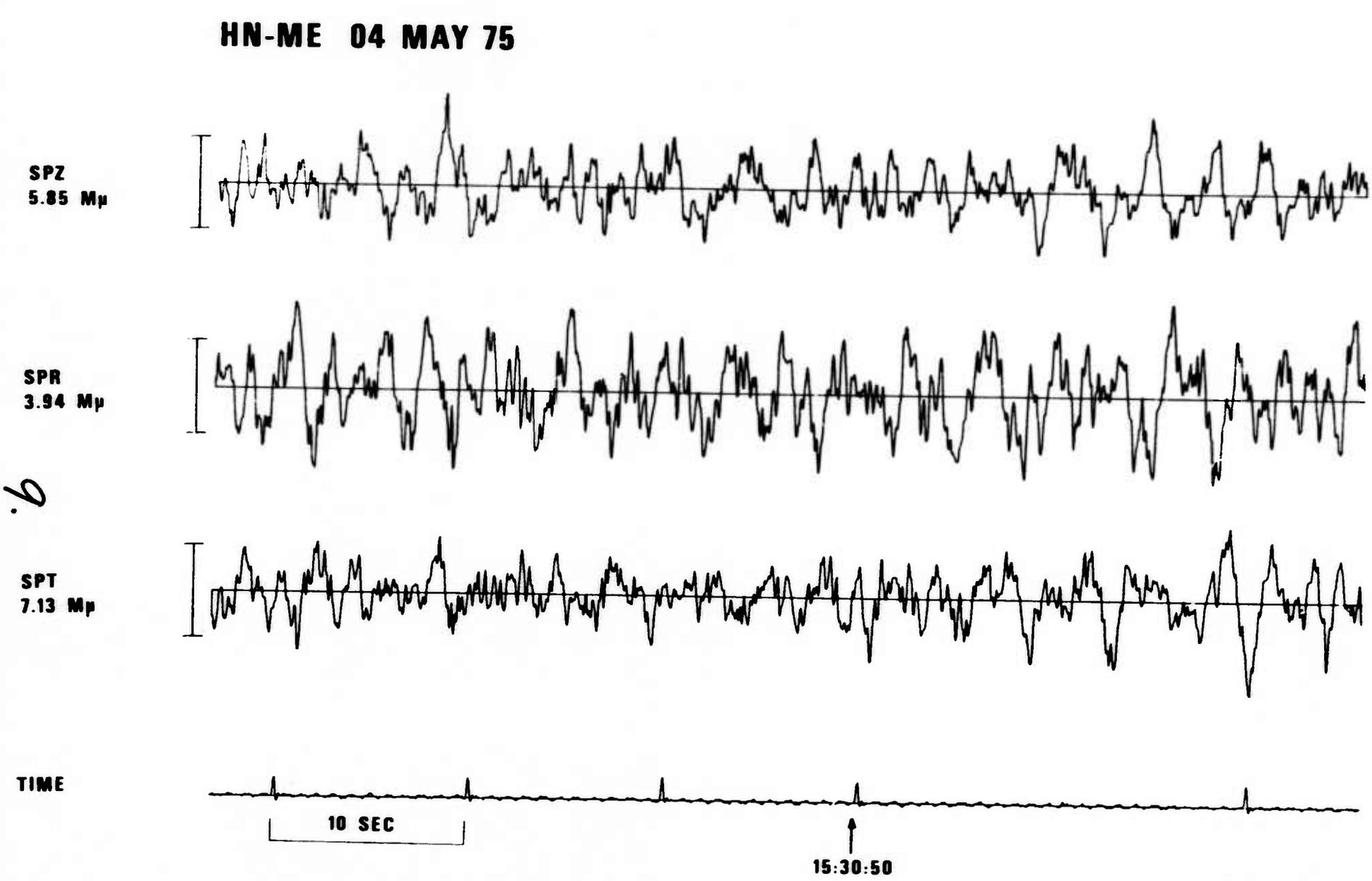


*TIME CORRECTION -1.0 SECOND

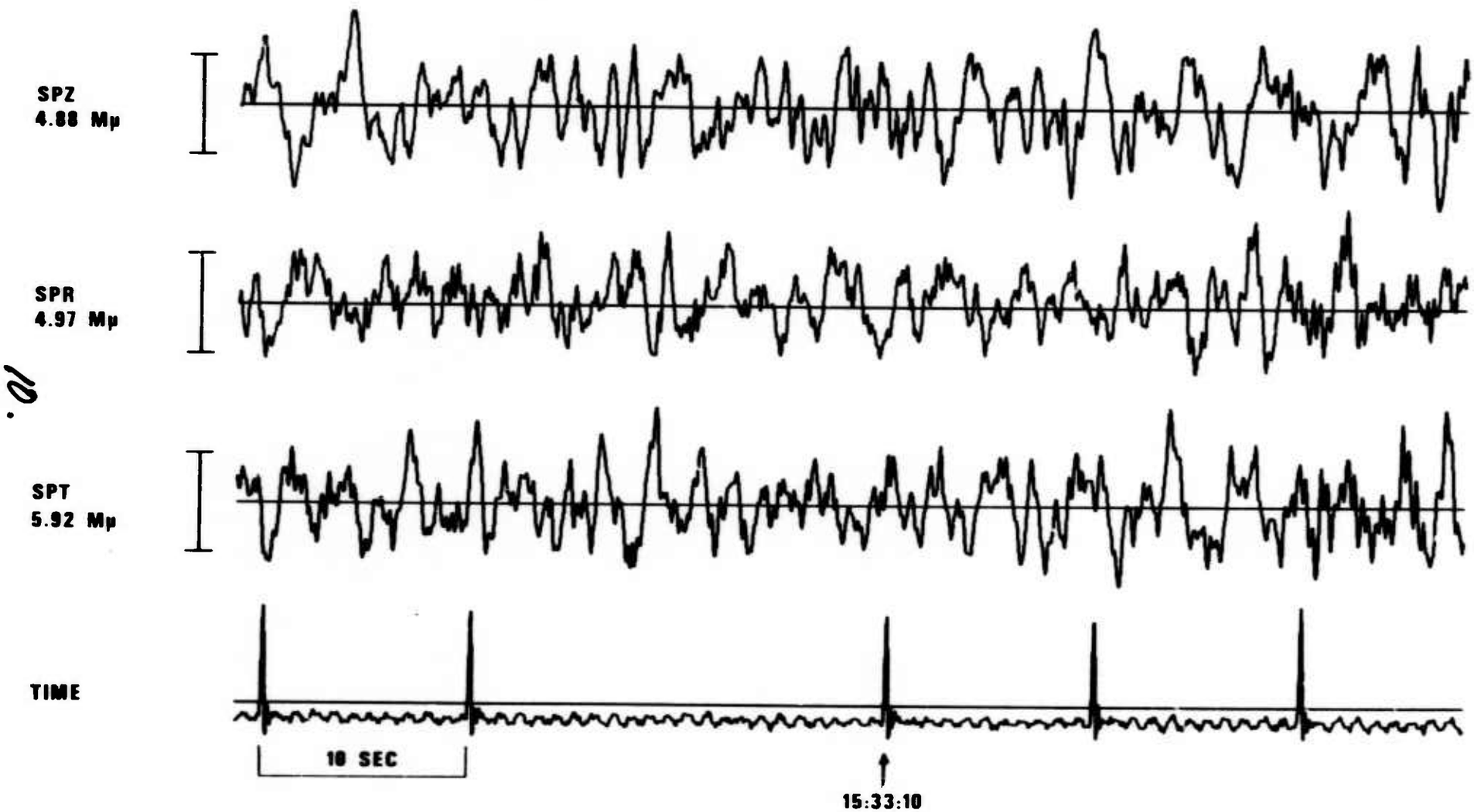
FN-WV 04 MAY 75



8

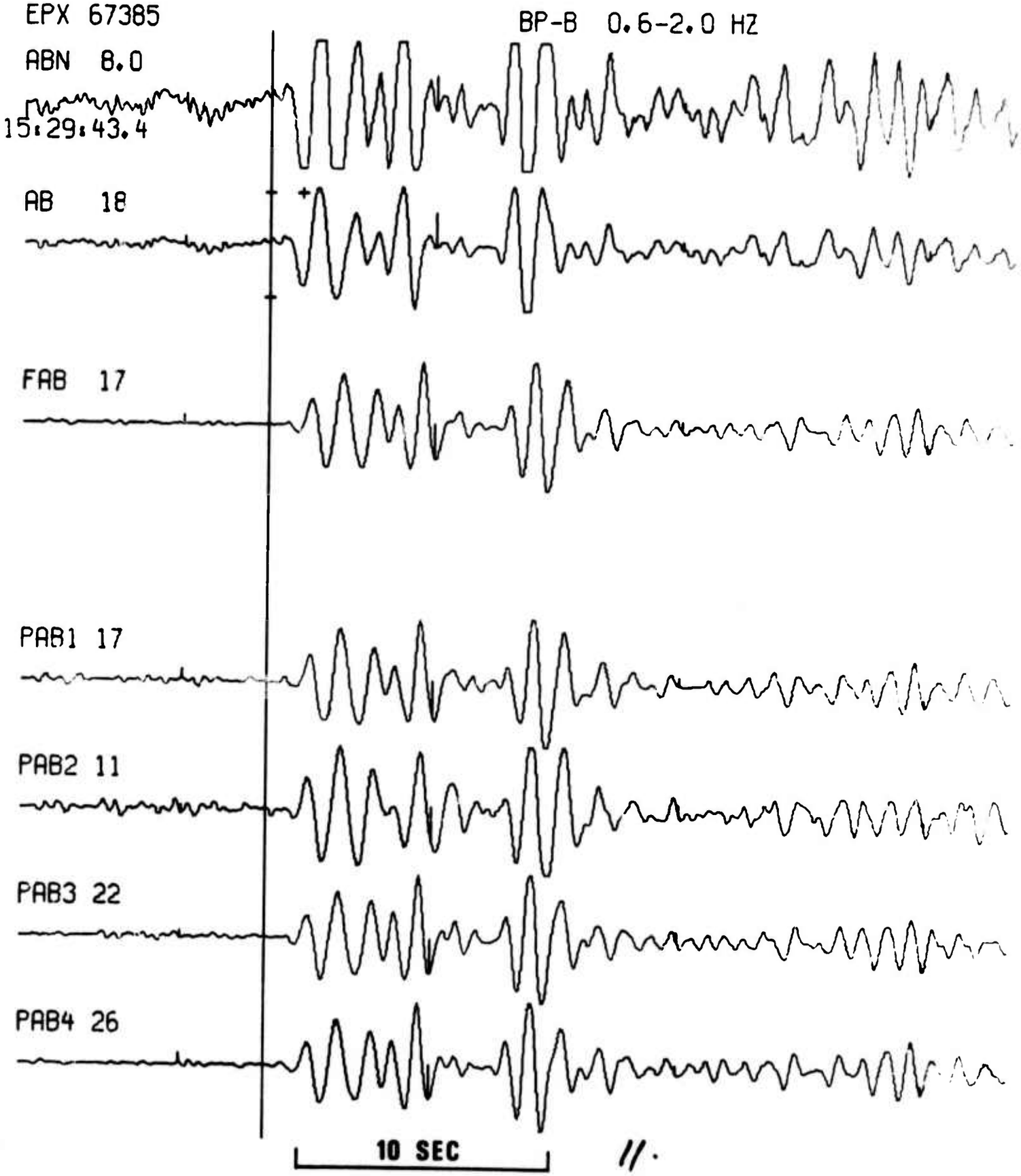

HN-ME 04 MAY 75
SPZ
5.85 Mμ
SPR
3.94 Mμ
SPT
7.13 Mμ
TIME
10 SEC
15:30:50

WH2YK 04 MAY 75



LASA

1 4 MAY 1975
2 15 23 6 13.3N 93.5W 33C B 4.6 68 OFF COAST OF CHIAPAS. MEX
3 15 29 53.4 LAO P 13.3 1.3 12.9 34.9 158.1

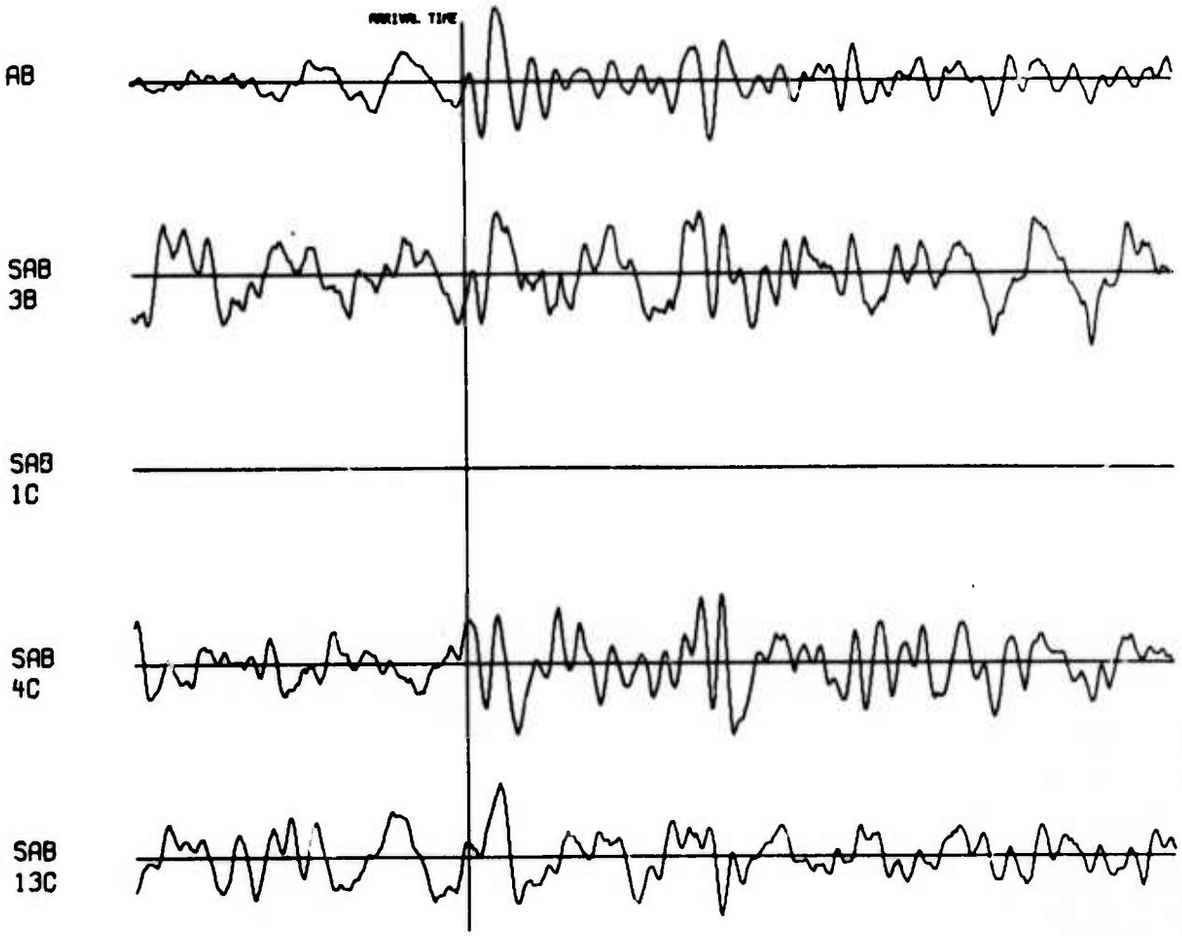


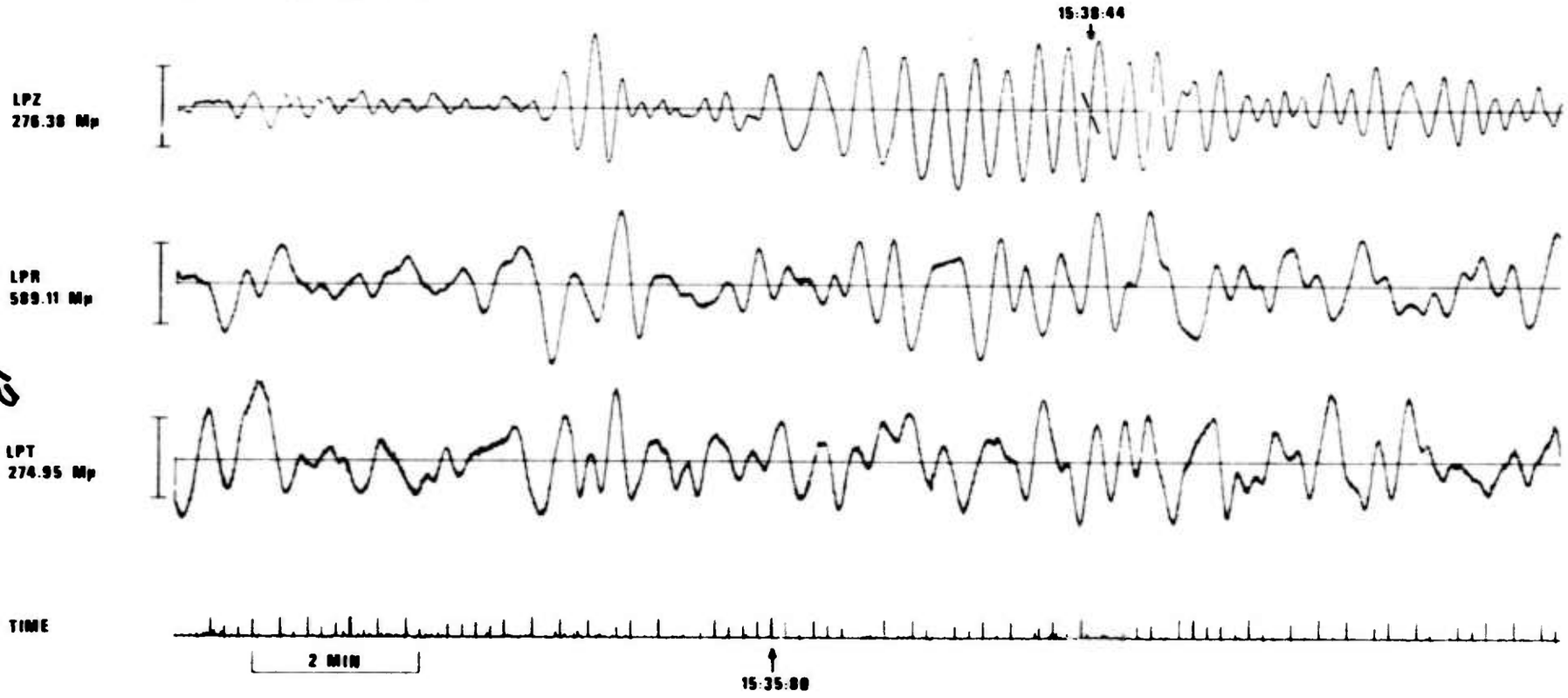
NORSAR EVENT FILE 1975 MAY 4

EPX NO. 28400 ARR. 15.35.46.1 13.8N 95.0W 4.3MB 33KM

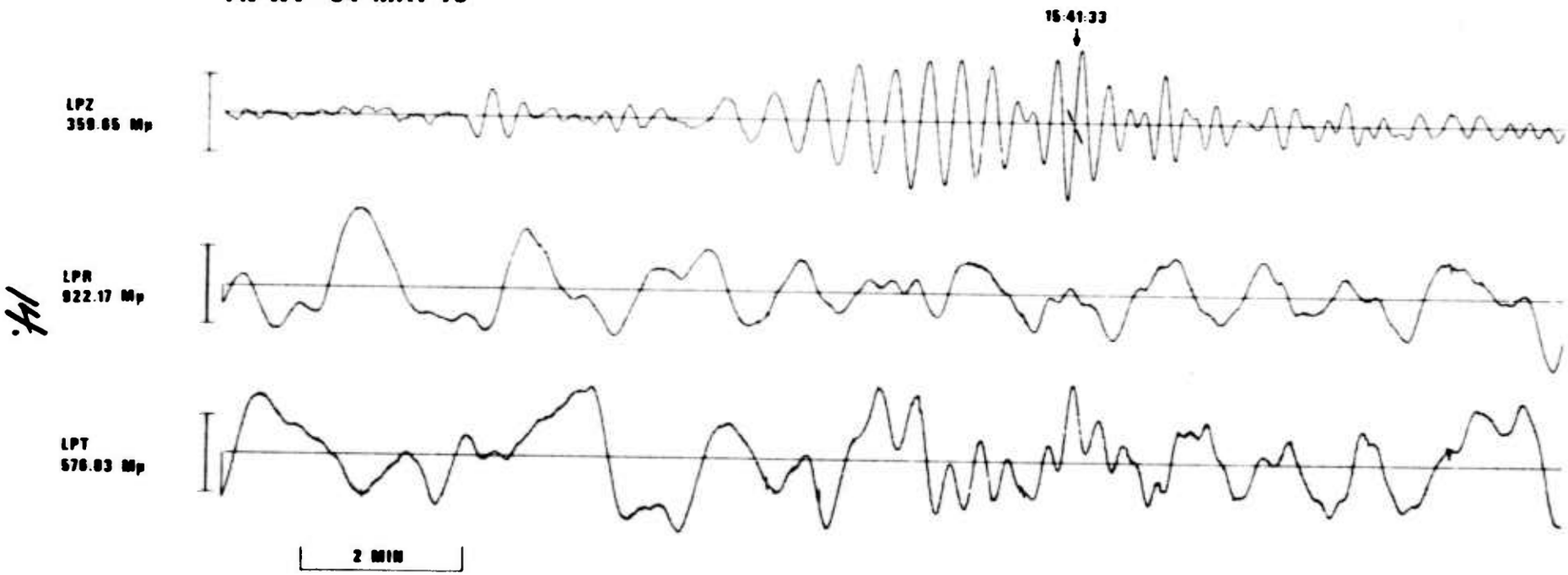
DIST = 85.6 AZI = 290.4 AMP = 4.1 PER = 1.4 UMETH 2

SCALE[_____]= 5 SECONDS

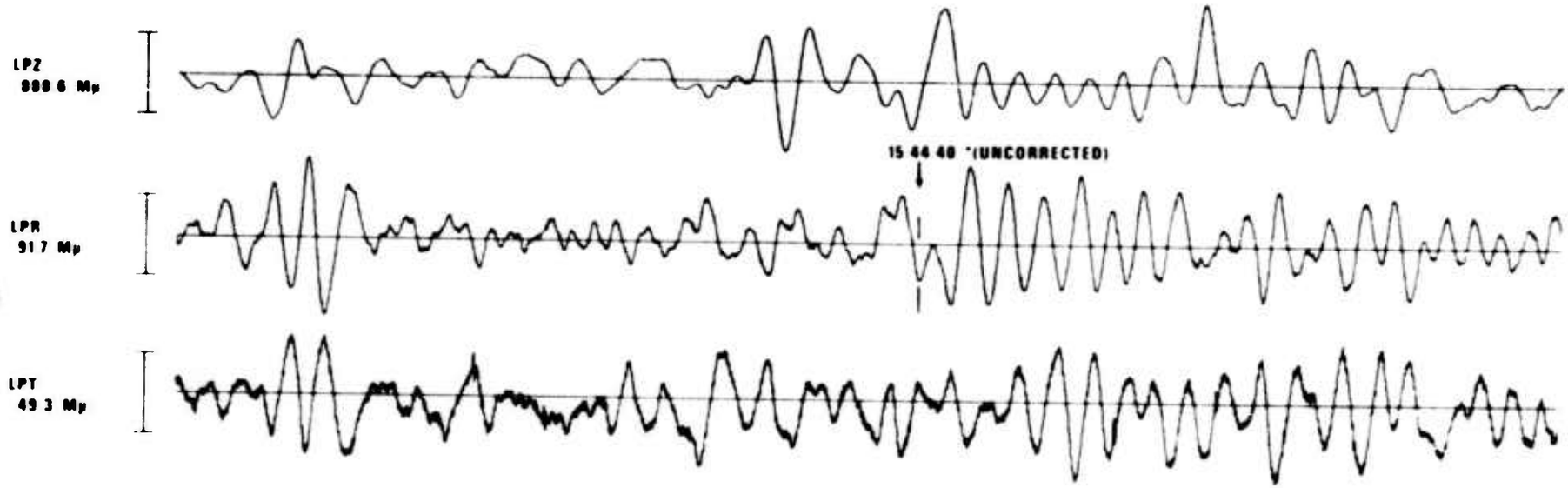



CP-SO 04 MAY 75
15:38:44
LPZ
276.38 Mp
LPR
589.11 Mp
LPT
274.95 Mp
TIME
2 MIN
15:35:88

13.


FN-WV 04 MAY 75
15:41:33
LPZ
359.65 Mp
LPR
922.17 Mp
LPT
576.83 Mp
2 MIN

RK-ON 04 MAY 75

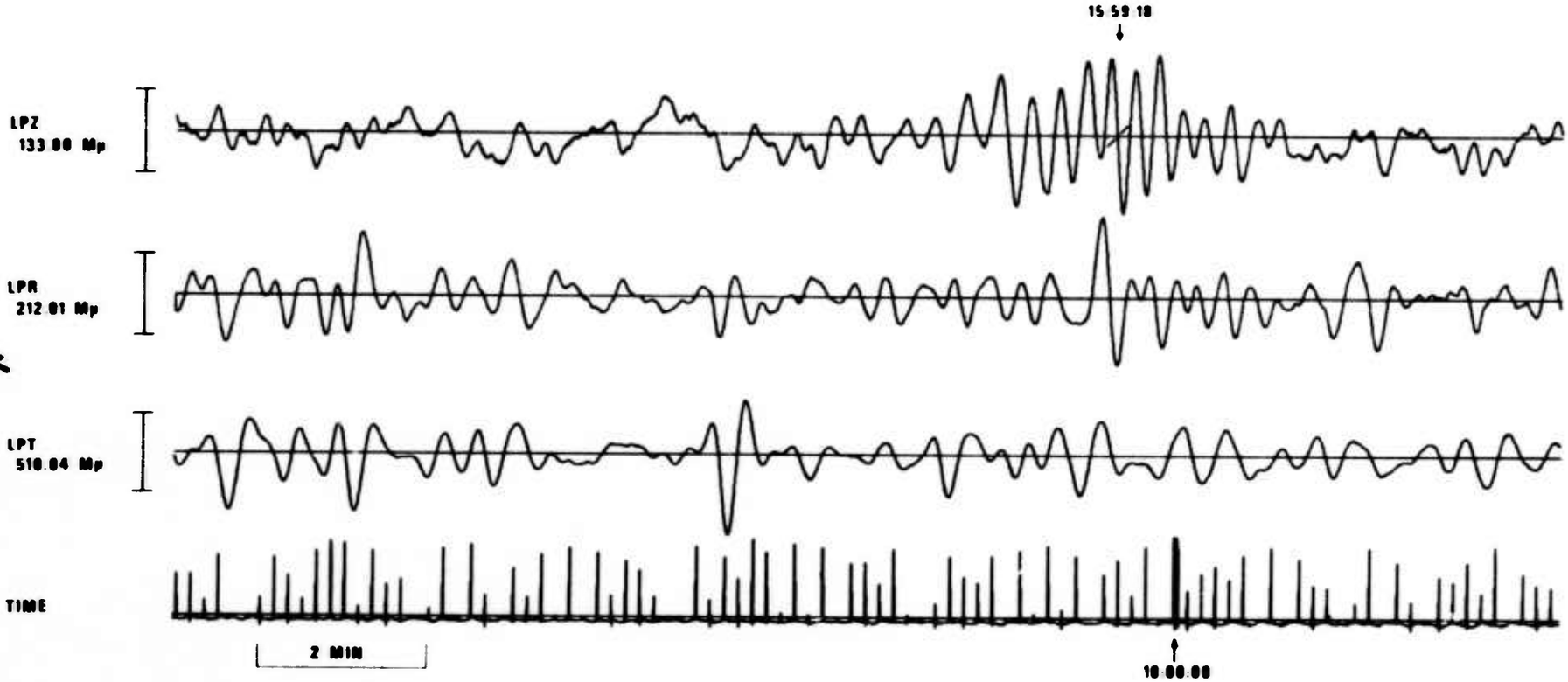


*TIME CORRECTION 10 SECOND

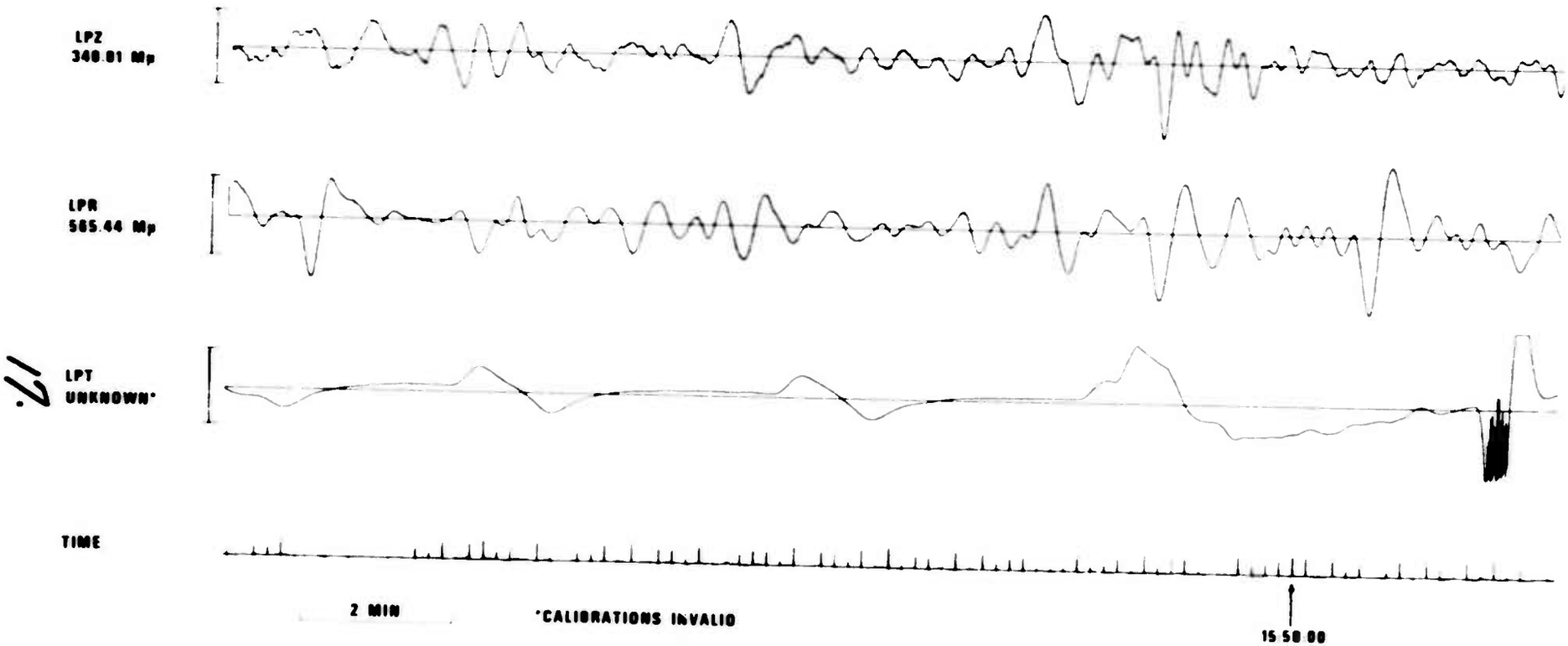
2 MIN

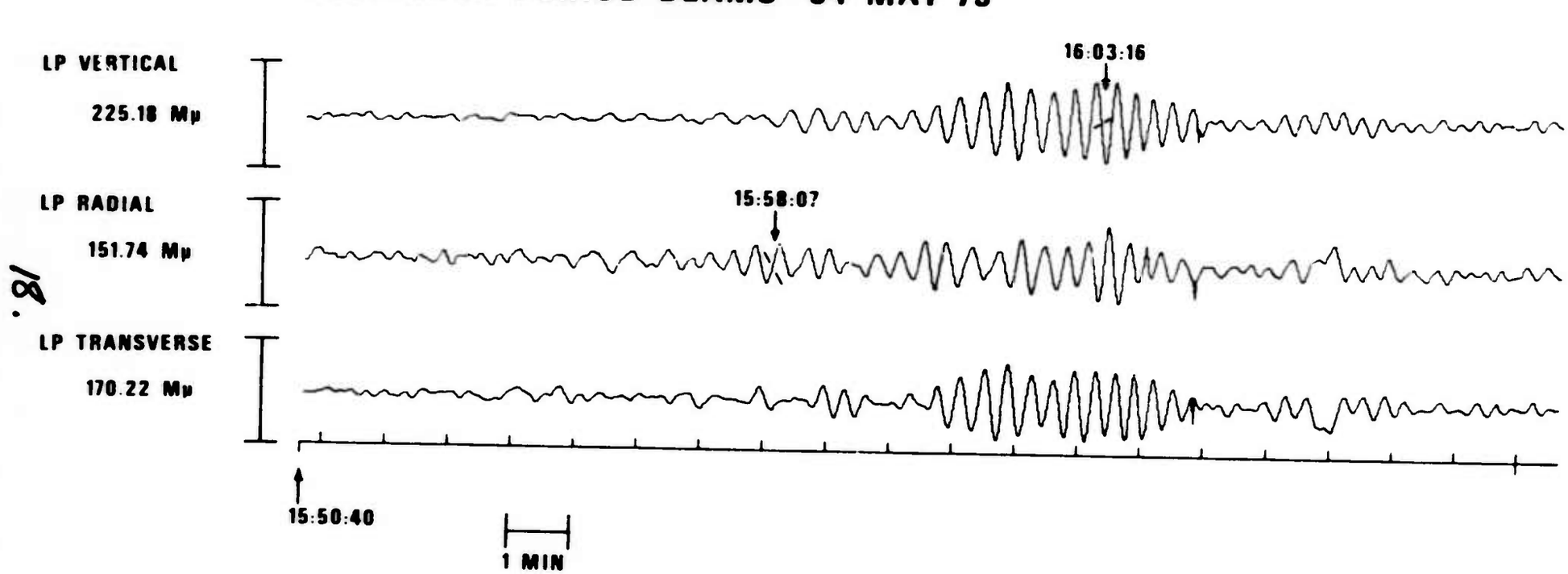
15.

WH2YK 04 MAY 75

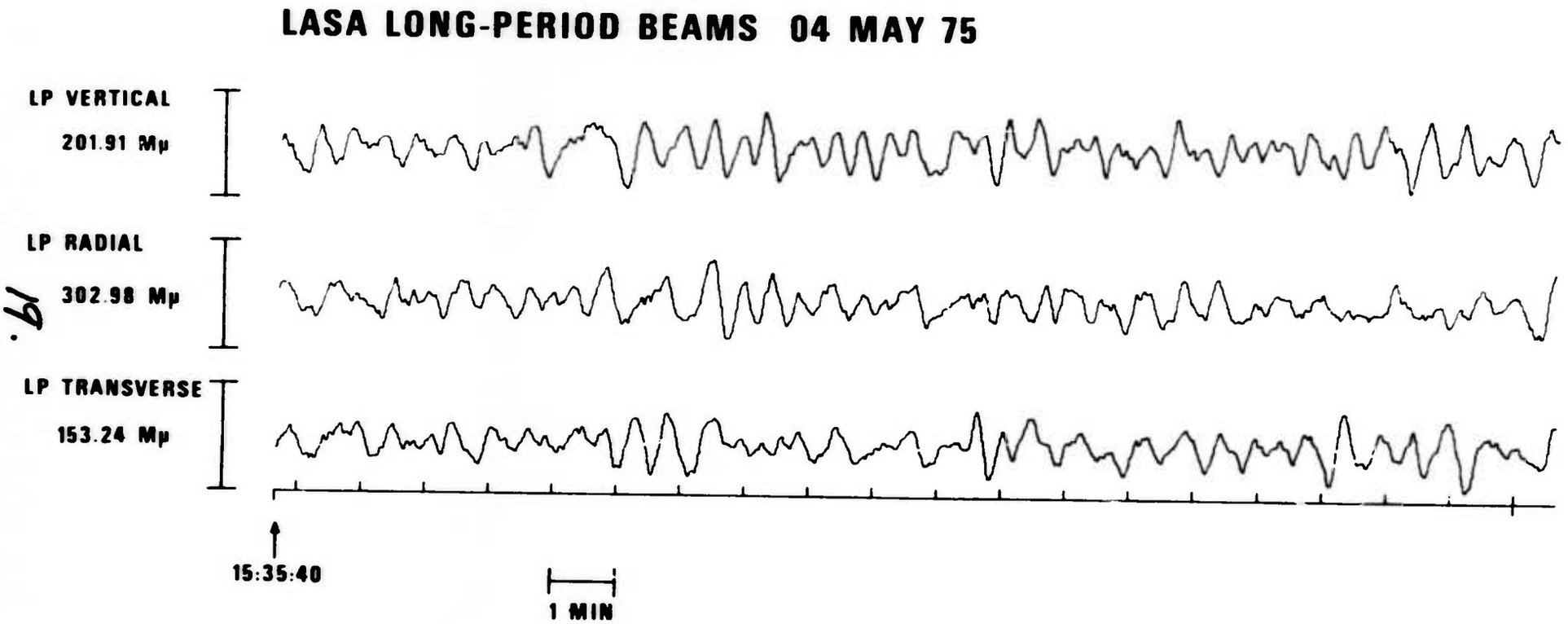


HN-ME 04 MAY 75




ALPA LONG-PERIOD BEAMS 04 MAY 75
LP VERTICAL
225.18 Mμ
16:03:16
LP RADIAL
151.74 Mμ
15:58:07
LP TRANSVERSE
170.22 Mμ
15:50:40
1 MIN

18.


LASA LONG-PERIOD BEAMS 04 MAY 75
LP VERTICAL
201.91 Mμ
LP RADIAL
302.98 Mμ
LP TRANSVERSE
153.24 Mμ
15:35:40
1 MIN