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SDCS-ER-75-16

AD-A019142



**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Turkey, 27 March 1975**

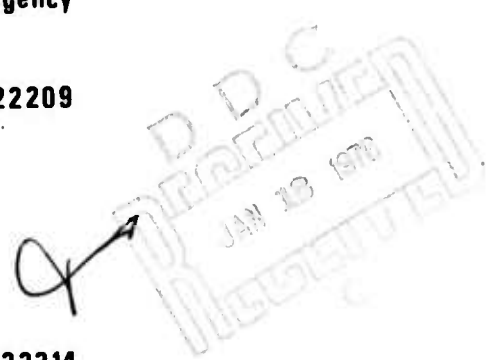
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September 1975

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Unclassified

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SDCS Event Report No. 16

Turkey, 27 March 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	05:15:38	42.6N	024.0E	5.3	N/A
LASA	05:15:39	42.8N	026.4E	5.6	N/A
PDE	05:15:06	40.4N	026.1E	5.7	6.7
Hagfors Array, Sweden	05:15:04	40 N	026 E	5.6	N/A

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

	05:15:07	40.6N	026.7E	5.6	6.4
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FN-WV was not operational for this event.

All operational SDCS stations, LASA and NORSAR recorded short-period signals associated with this event. The magnification of the CPSO vertical channel is unknown. The number of instruments contributing to the summation calibration was not recorded. The time correction at WH2YK was approximately minus 9 minutes and 30 seconds.

Long-period signals were recorded at all operational SDCS stations. The LP transverse channel at WH2YK was inoperative. The CPSO LP radial magnification is unknown. Clipped signals appear on the LP transverse channel at HN-ME and the E-W channel at CPSO. No low-gain data for these channels was available. Array long-period data was not recoverable.

Short-period horizontal channels at RK-ON, WH2YK, and HN-ME have been rotated to orientations radial and transverse relative to this event location. Rotation was also performed on long-period channels at RK-ON.

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.

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES		ELEVATION METERS	INSTRUMENTATION	
		DEG	MN SECS		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 27 MAR 75
 05:15:39.0 42.800N 26.400E 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CALC	REST		
NAO	05 20 06.7	-0.0	-0.0	22.5	339.4
HN-ME	05 25 47.9	0.3	0.3	65.0	310.2
RK-ON	05 26 49.3	-0.4	-0.5	75.1	325.5
WH2YK*	05 36 38.3	572.5 *	572.5 *	78.0	350.9
CPO	05 27 27.6	-0.3	-0.3	82.0	310.4
LAC	05 27 36.2	0.5	0.5	83.5	329.5

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
05:15:14.5	40.788N	26.591E	45. CALC	0.4	10	5
05:15:06.8	40.598N	26.744E	0. REST	0.4	3	5

CALC

0	.	0
4	.	0
0	1.	0
.	.	.
0	0.	0
0	.	0
0	.	0

REST

0	.	0
4	.	0
0	1.	0
.	.	.
0	0.	0
0	.	0
0	.	0

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 1.06
 MAJOR 163.9KM. MINOR 59.5KM. AZ= 94 AREA= 30643 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 27 MAR 75
 05:15:39.0 42.800N 26.400E OKM.

STA.	PHASE	ARRIVAL		INST	PER	A/T	MAGNITUDE		DIR	DIST
		TIME					MB	MS		
NAO	EP	05 20	06.7	AB	1.1	379.	5.53			22.5
HN-ME	EP	05 25	47.9	SPZ	1.2	21.	5.02			65.0
HN-ME	LR	05 54	53.0	LPZ	17.0	3538.		6.48		65.0
RK-ON	EP	05 26	49.3	SPZ	0.8	166.	5.73			75.1
PK-ON	LQ	05 54	54.0	LPT	25.0	1310.				
RK-ON	LR	05 58	20.0	LPZ	22.0	3401.		6.53		75.1
WH2YK*	EP	05 36	38.3	SPZ	0.9	25.	5.00			78.0
WH2YK	LQ	06 04	07.0	LPT	33.0	2281.				
WH2YK	LR	06 10	56.0	LPZ	23.0	1236.		6.10		78.0
CPO	EP	05 27	27.6	SPZ	0.9	??				
CPO	LQ	05 56	54.0	LPE	26.0	CLIPPED				
CPC	LR	06 02	42.0	LPZ	21.0	2400.		6.41		82.0
LAO	EP	05 27	36.2	AB	1.1	197.	5.99			83.5

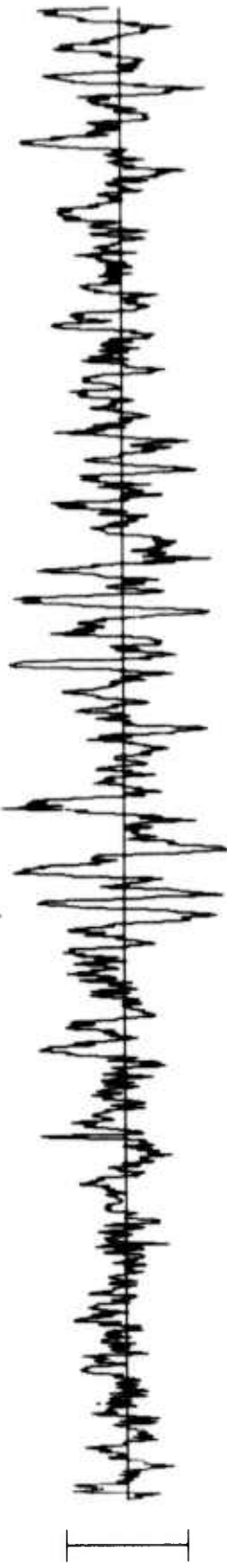
ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA	LPMAG	LPSDV	LPSTA
05:15:14.5	40.788N	26.591E	45. CALC	5.46	0.42	4	6.38	0.2	4
05:15:06.8	40.598N	26.744E	0. REST	5.57	0.41	4	6.38	0.2	4

HN-ME 27 MAR 75

SPZ
8.90 MU



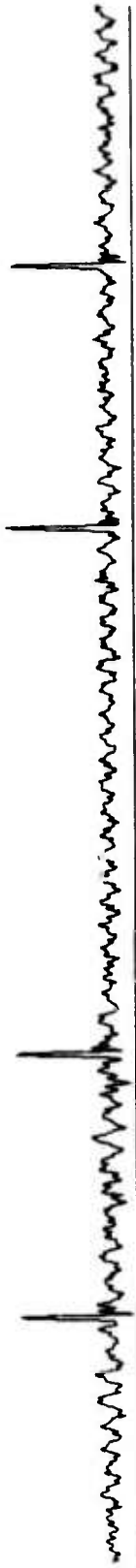
SPR
4.41 MU



SPT
6.02 MU



TIME



RK-ON 27 MAR 75

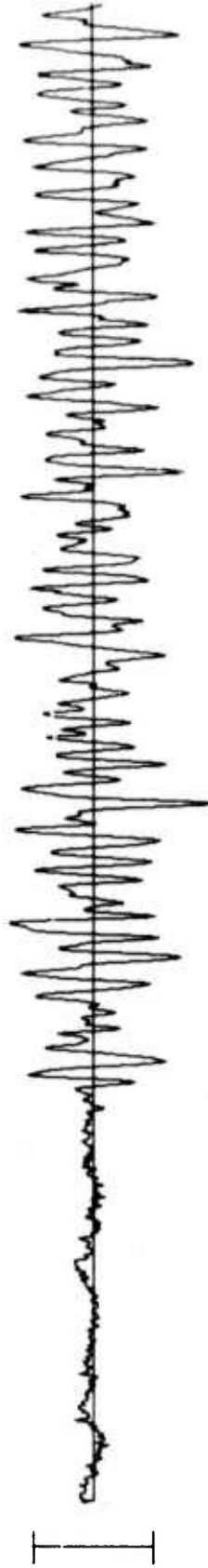
05:26:49.3



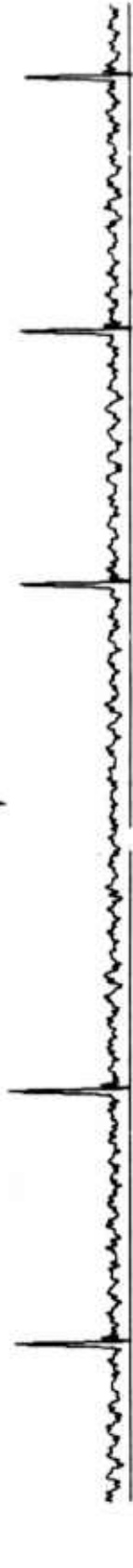
SPZ
142.84 MU



SPR
54.55 MU



SPT
33.89 MU



TIME

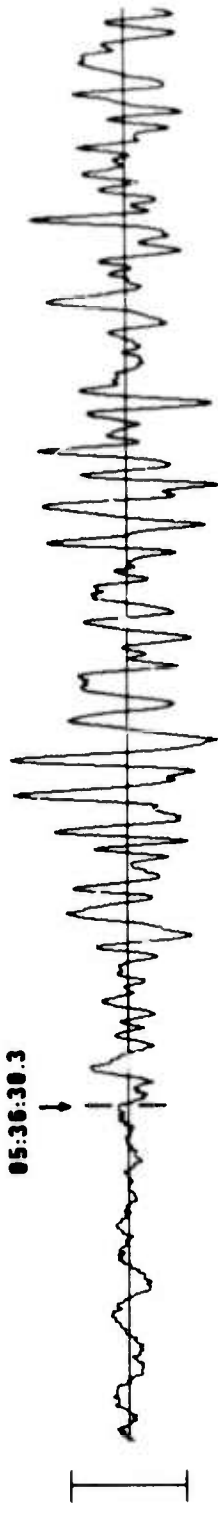
05:26:50



10 SEC



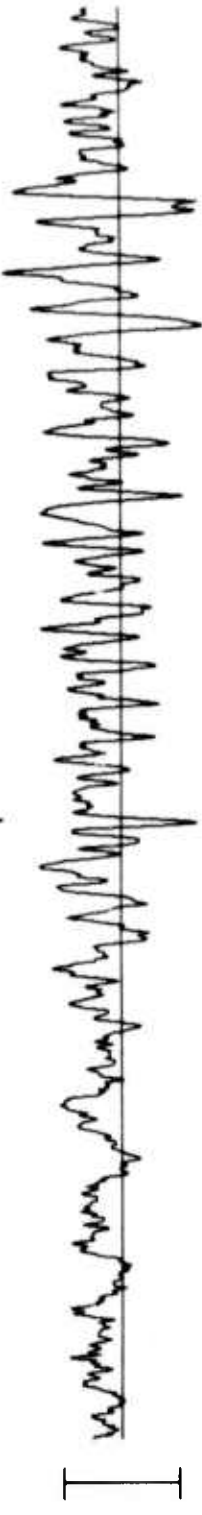
WH2YK 27 MAR 75



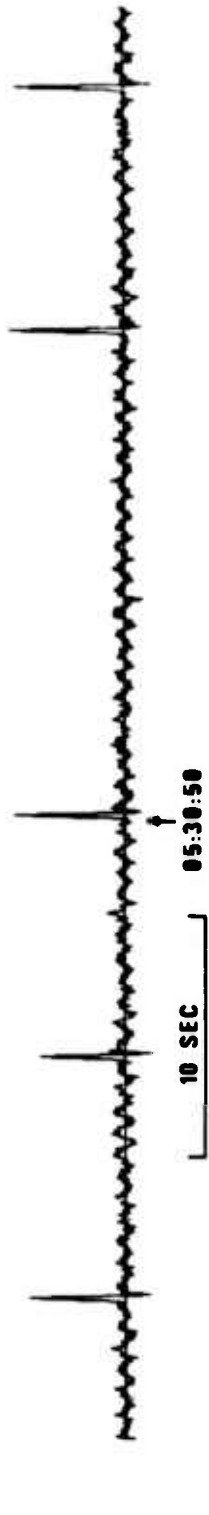
**SPZ
35.79 MP**



**SPR
19.70 MP**



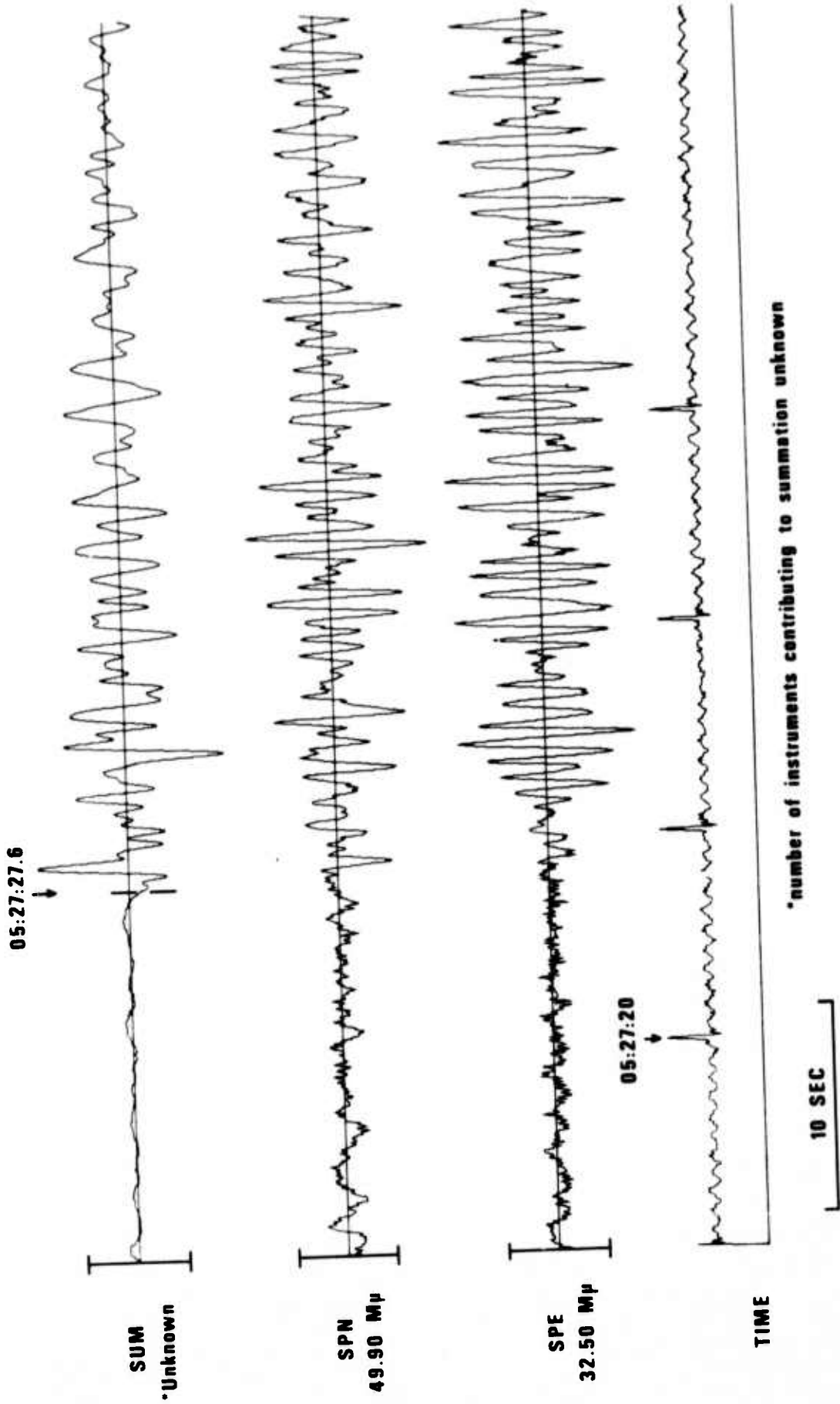
**SPT
14.14 MP**



TIME

(APPROXIMATE - 9 MINUTE 30 SECOND TIME CORRECTION)

CPSG 27 MAR 75



SUM
Unknown

SPN
49.90 Mμ

SPE
32.50 Mμ

TIME

number of instruments contributing to summation unknown

10 SEC

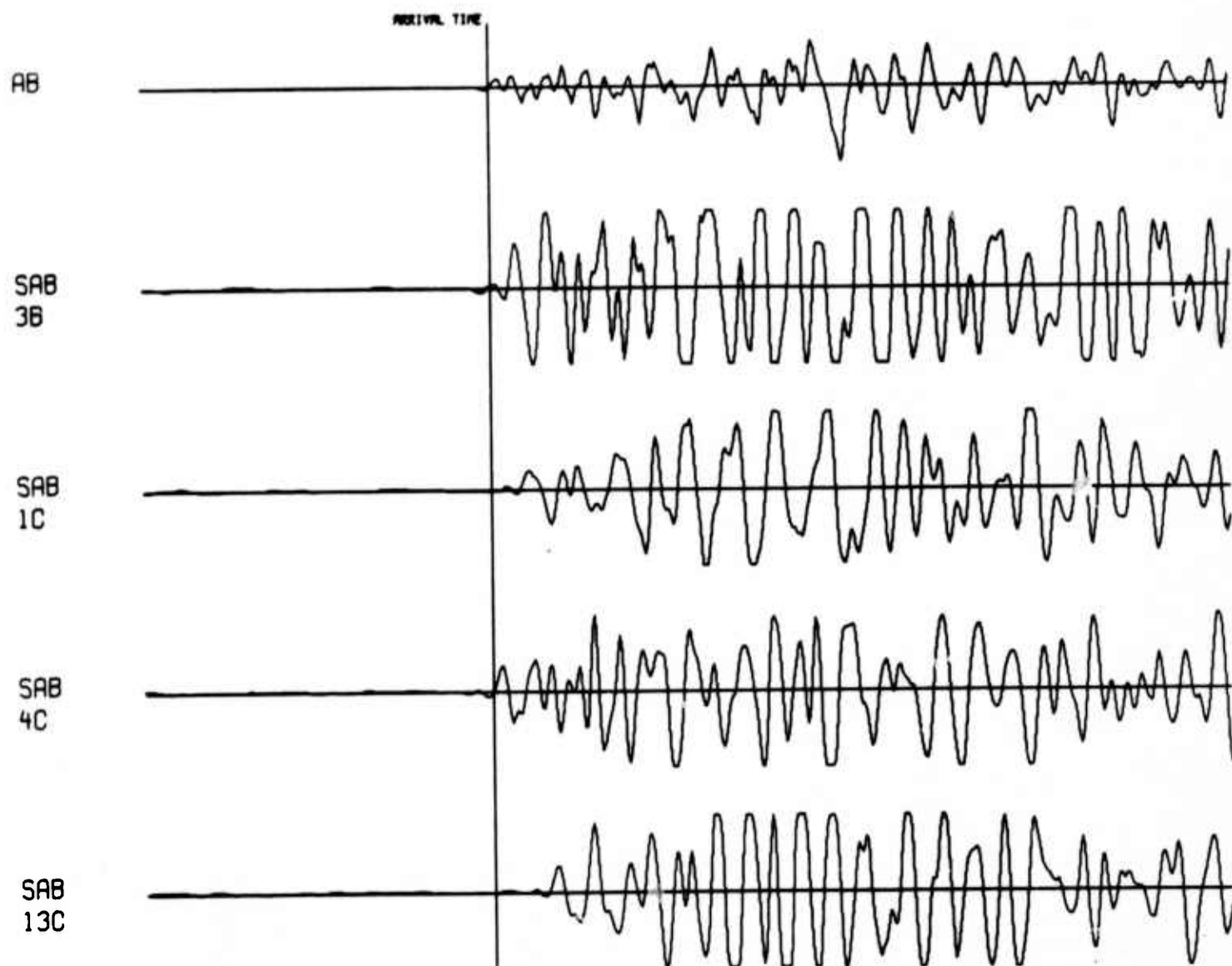
NORSAR EVENT FILE

1975 MAR 27

EPX NO. 74960 ARR. 5.20.6.3 38.ON 21.OE 4.7MB 33KM

DIST = 23.7 AZI = 159.7 AMP = 22.7 PER = 0.9 UMETH 0

SCALE  = 5 SECONDS



LASA

1 27 MAR 1975

2 5 15 39 42.8N 26.4E 175G B 5.5 359 BULGARIA

3 5 27 36.4 LAO P 123.6 1.6 21.3 81.6 33.2

EPX 73020

BP-B 0.6-2.0 HZ

ABN 11

05:27:26.4

AB 230

FAB 130

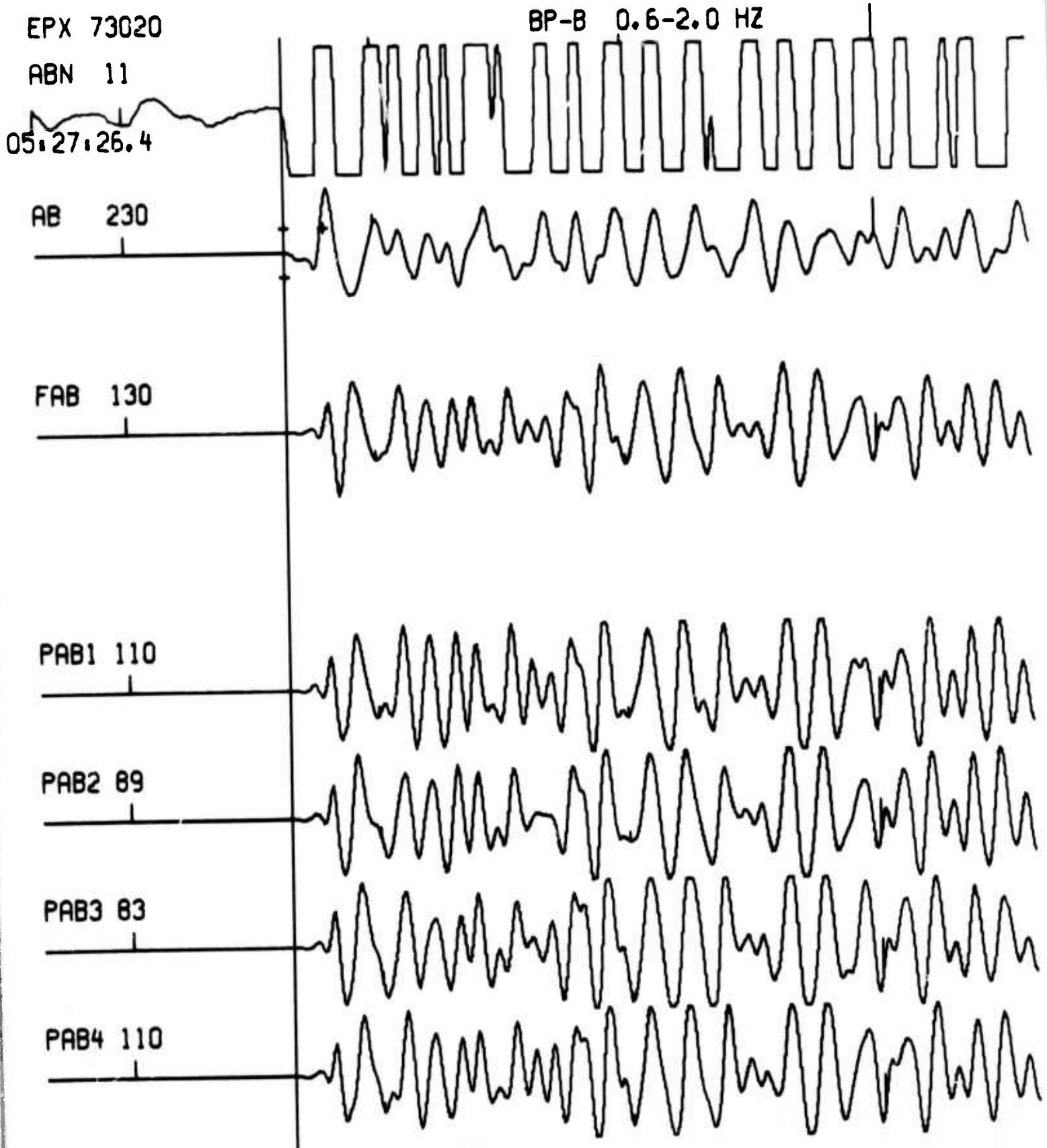
PAB1 110

PAB2 89

PAB3 83

PAB4 110

10 SEC

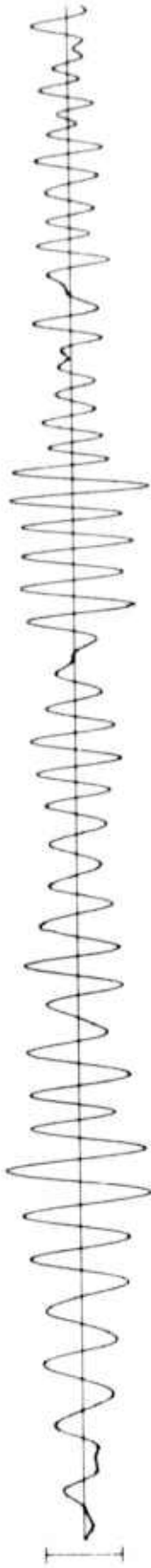


HR-ME 27 MAR 75

05 54 53



LPZ
29824.40 MU



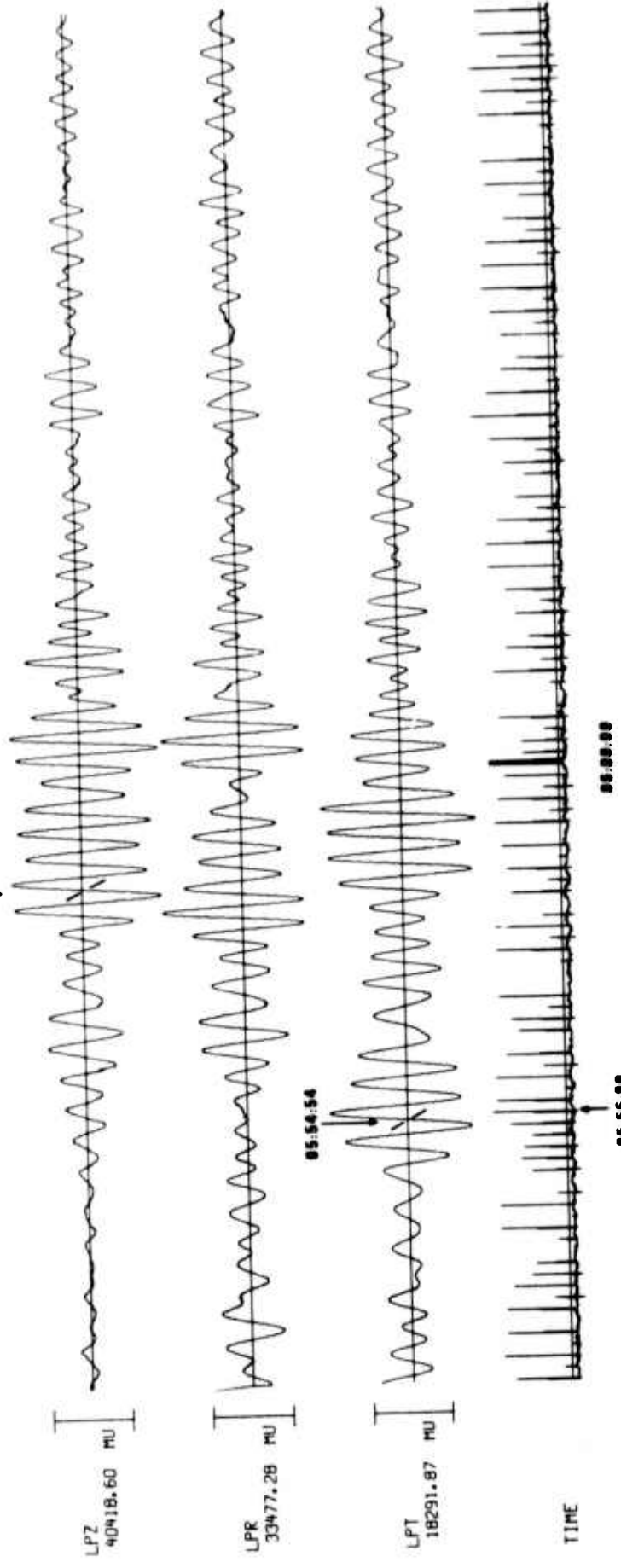
LPR
15860.00 MU



LPT
11294.25 MU

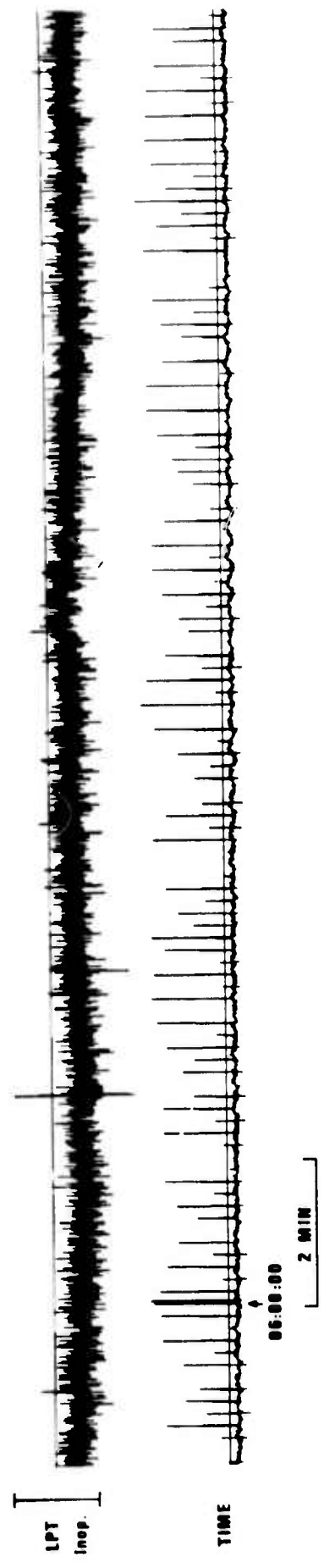
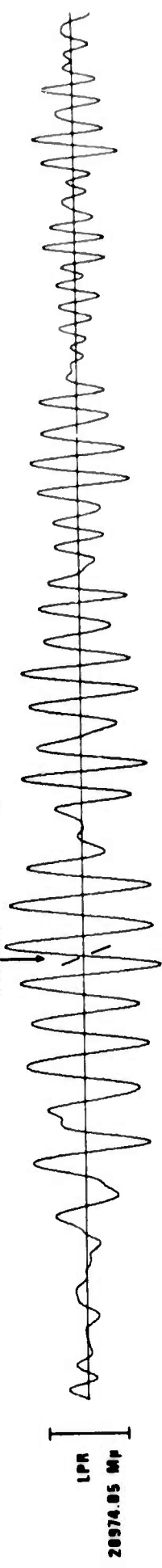
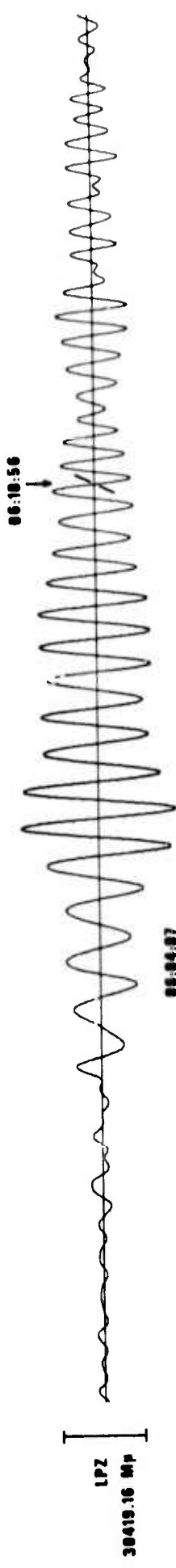


RK-ON 27 MAR 75



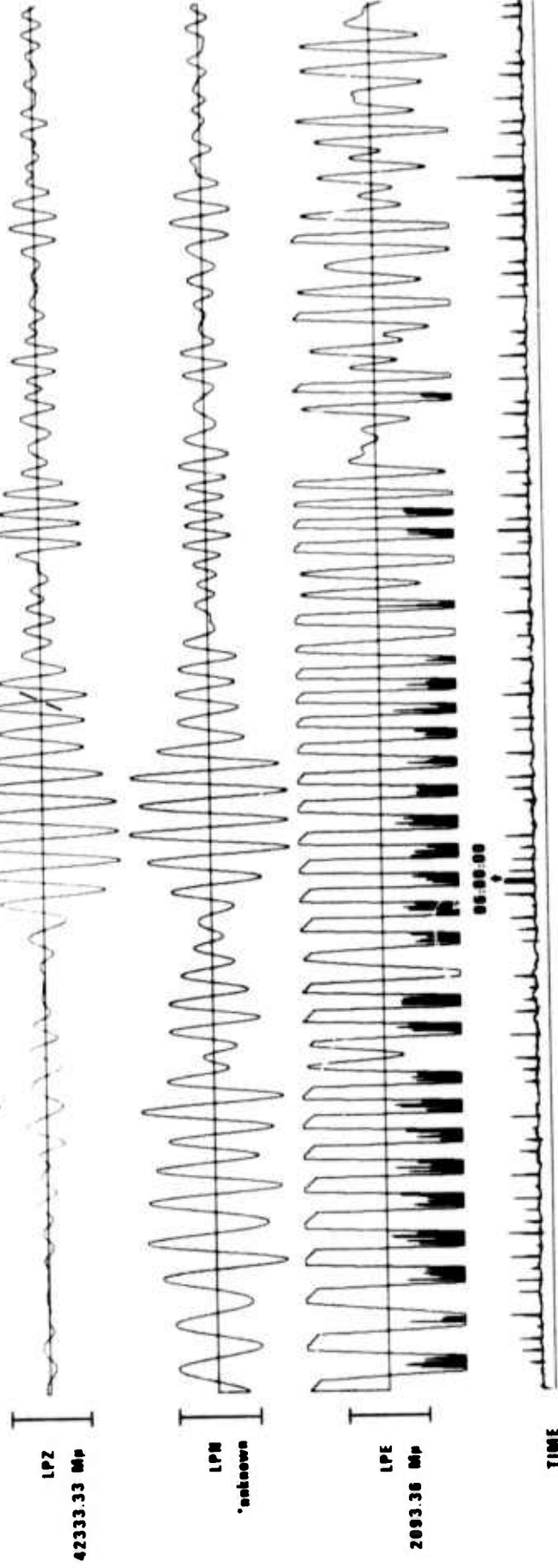
TIME

WH2YK 27 MAR 75



(APPROXIMATE - 9 MINUTE 30 SECOND TIME CORRECTION)

CPSO 27 MAR 75



* LPR calibration unreadable

2 MIN