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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,
TURKEY, 6 SEPTEMBER 1975

Teledyne Geotech

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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Turkey, 6 September 1975

K.J. Hill, M.S. Dawkins, R.R. Baumstark, and M.D. Gillispie
Alexandria Laboratories

Teledyne Geotech, 314 Montgomery Street, Alexandria, Virginia 22314

February 1976

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SDCS EVENT REPORT NO. 69

Turkey, 6 September 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:

	"P" Arrival	Origin Time	Lat.	Long.	m_b	M_s
NORSAR	09:26:10.1	09:20:08	38 N	041 E	6.1	N/A
Hagfors		09:18:27	27 N	045 E	6.4	N/A

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

09:20:09.3 38.5N 040.7E 6.3 5.8

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at all SDCS stations, LASA and NORSAR. Horizontal SP channels at all SDCS stations were rotated. NORSAR "P" arrival was obtained from their bulletin; the TAL transmission was not recoverable.

Long-period signals were recorded at all SDCS stations, ALPA and NORSAR. Horizontal LP channels at WH2YK and HN-ME were rotated. Horizontal LP channels at FN-WV, CPSO and RK-ON were not rotated due to signal clipping. Validity of ALPA and NORSAR long-period vertical beams is questionable and horizontal beams were not included because of program recovery problems. LASA long-period data were not recoverable.

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 DEG MN SECS	ELEVATION METERS	INSTRUMENTATION	
				SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65 14 00.0 N 147 44 36.0 W	626	None	31390
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

Note: The orientation of the radial instruments at FN-WV is assumed to be 316° + 5° based on empirical data (event recordings). Rotation, where performed, is referenced to this azimuth and may be questionable.

HYPOCENTER DETERMINATION

INPUT FOR EVENT 6 SEP 75
 09:20:08.0 38.000N 41.000E 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CAIC	REST		
NAC	09 26 10.1	-0.2	-0.2	29.1	329.8
HN-ME	09 31 48.1	0.7	0.7	74.3	316.8
WH2YK	09 32 24.8	-0.3	-0.3	81.1	357.9
FK-CN	09 32 32.4	-0.0	-0.0	82.4	332.8
FN-WV	09 32 49.0	-0.3	-0.3	85.7	317.2
IAC	09 33 11.4	C.9	C.9	90.1	337.9
CFSC	09 33 14.2	-0.9	-0.9	91.1	318.9

67 HERRIN TRAVEL TIME TABLES

ORIGIN	IAT.	ICNG.	DEPTH (KM)	SDV	IT	STA
NC CONVERGENCE CN CAIC RUN						
09:20:37.4 39.053N	40.432E	158. CAIC	0.6	16	7	
09:20:09.3 38.543N	40.721E	C. REST	0.6	2	7	

CAIC				REST			
3	.	0		3	.	0	
4	.	0		4	.	0	
C	C.	0	0	0	0.	0	0
.	.	.	.	.	.	.	.
C	C.	0	0	0	0.	0	0
0	.	0		0	.	0	
C	.	0		0	.	0	

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONFD..LEVEL, SDV= 0.92
 MAJOR 79.6KM. MINOR 65.2KM. AZ= 43 AREA= 16304 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 6 SEP 75
09:20:08.0 38.000N 41.000E 0KM.

STA.	PHASE	ARRIVAL TIME	INST	FFR	PCT	MAGNITUDE MP	MS	DIR	DIST
NAC	EF	09 26 10.1	AE	1.0	524.	6.02			29.1
HN-MEM	EP	09 31 48.1	SFZ	1.0	6.	4.28			74.3
HN-ME	IC	10 00 22.0	IFT	26.0	1706.				
HN-ME	IR	10 04 32.0	IFZ	23.0	1888.		6.27		74.3
ALFA	IR	10 08 25.0	IFZ	23.0	206.		5.32		76.3
WH2YK	EF	09 32 24.8	SFZ	0.7	45.	5.16			81.1
FK-CN	EP	09 32 32.4	SFZ	0.9	197.	5.94			82.4
FN-WV	EP	09 32 49.0	SFZ	1.0	322.	6.14			85.7
IAC	EF	09 33 11.4	SAE	1.1	976.	6.70			90.1
CFSC	EP	09 33 14.2	SFZ	1.5	662.	6.62			91.1

CRIGIN	LAT.	LCNG.	DEPTH (KM)	MAG	SDV	STA	IPMAG	LPDV	LPSTA
09:20:09.3	38.543N	40.721E	0. REST	6.28	0.35	5	5.79	0.7	2

HN-ME NOT USED IN CALC RUN SF AVG. MAG.
WH2YK NOT USED IN CALC RUN SF AVG. MAG.
HN-ME NOT USED IN REST RUN SF AVG. MAG.
WH2YK NOT USED IN REST RUN SF AVG. MAG.

HN-ME AND WH2YK WERE NOT USED IN EITHER THE CALCULATED OR THE RESTRAINED SP AVERAGE MAGNITUDE CALCULATIONS BECAUSE THEIR MAGNITUDES EXCEED THE SDV PARAMETERS OF THE HYPOCENTER PROGRAM.

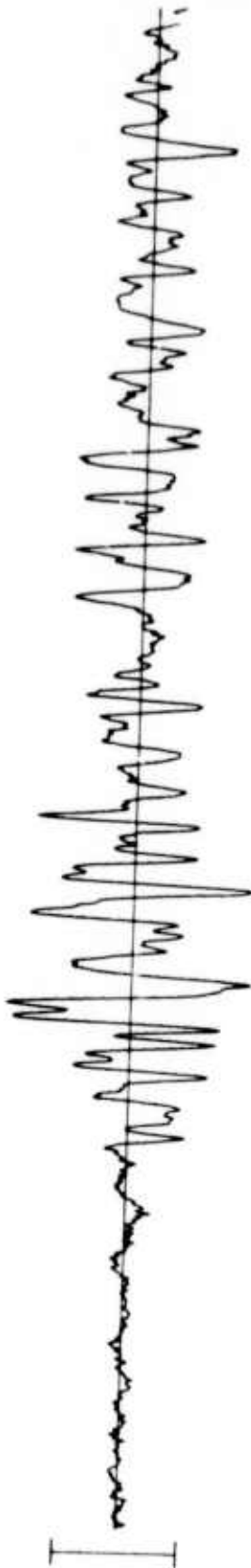
HN-ME 6 SEP 75

09:31:48.1

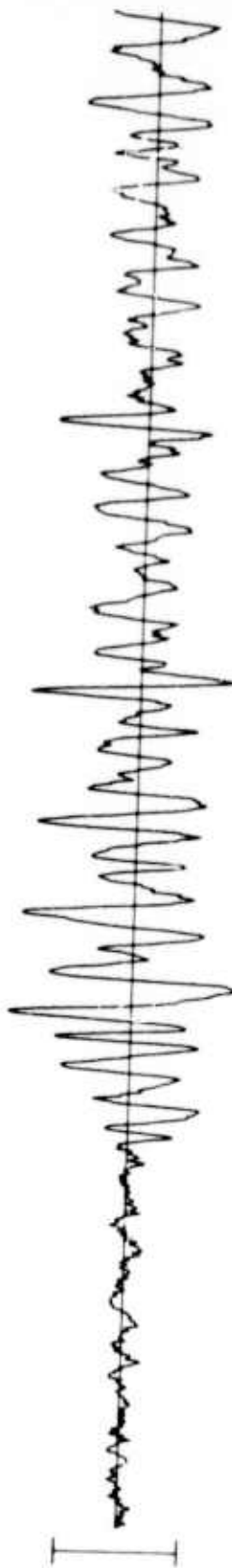
SPZ
3.29 MU



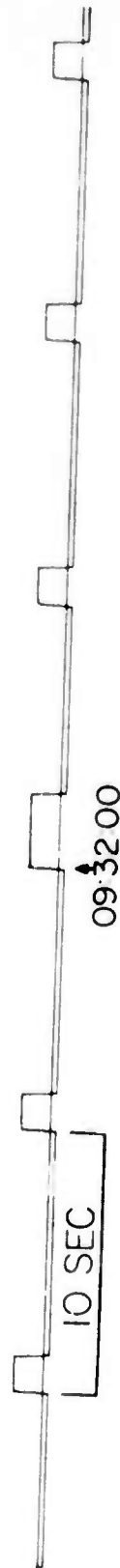
SPR
67.69 MU



SPT
57.67 MU

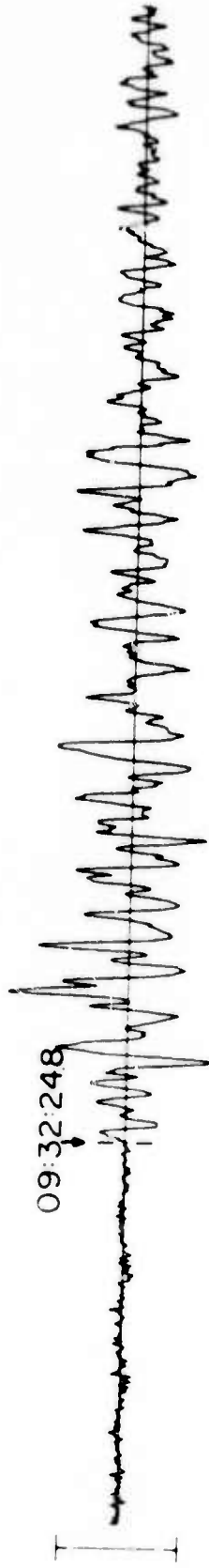


TIME



WH2YK 6 SEP 75

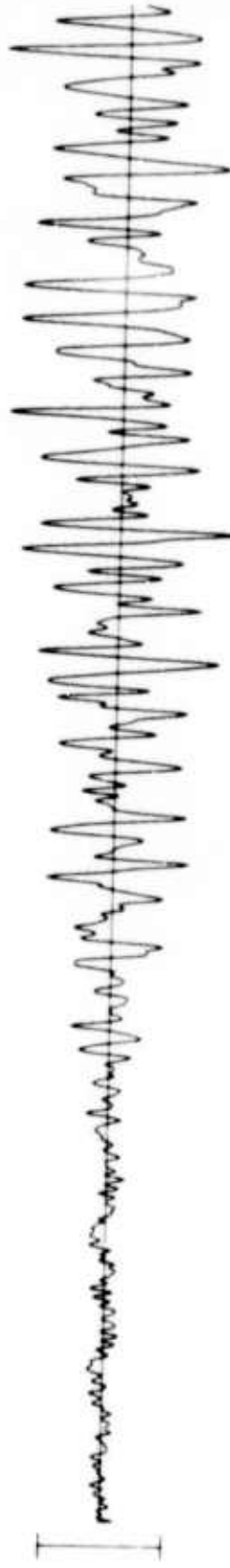
SPZ
71.00 MU



SPR
30.64 MU



SPT
41.95 MU



TIME

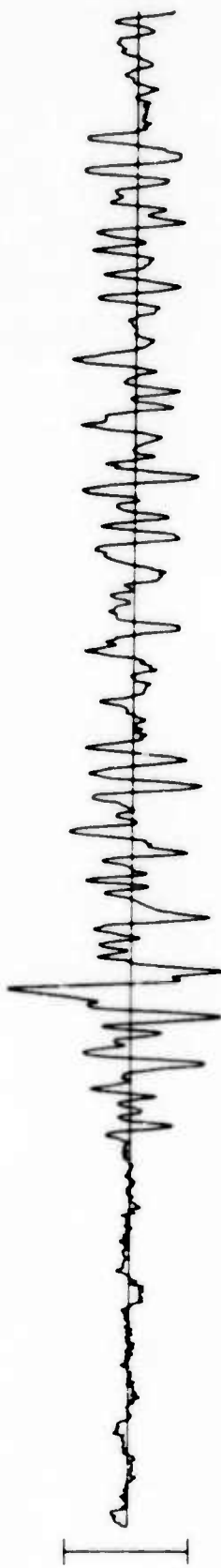


RK-QN 6 SEP 75

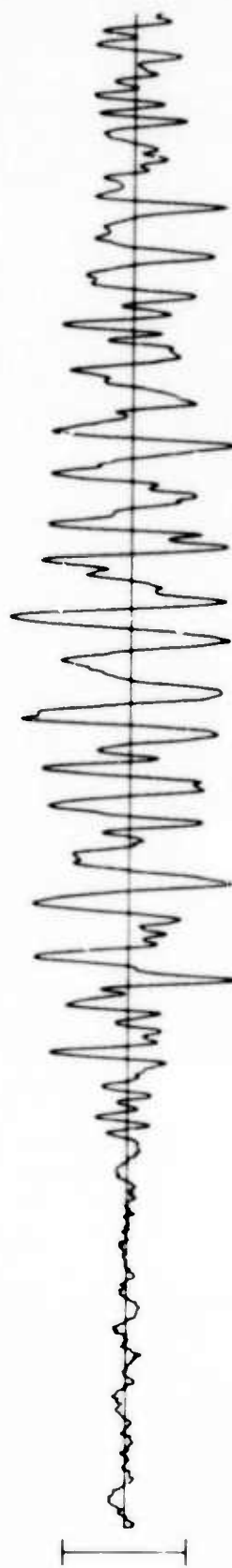
SPZ
215.22 MU



SPR
73.35 MU



SPT
54.63 MU



TIME



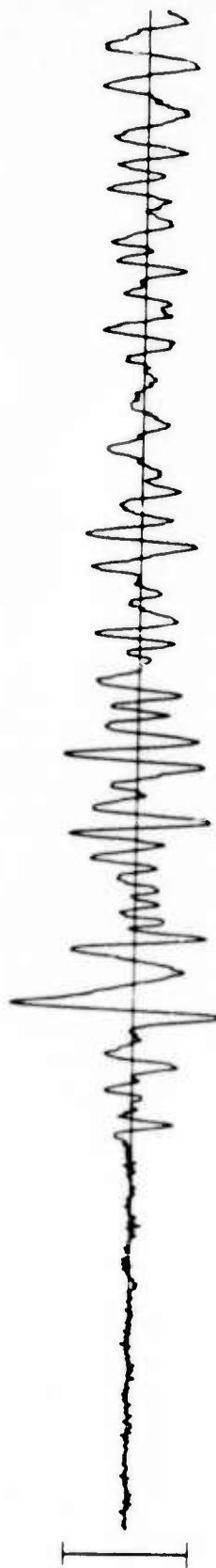
09:32:50

FN-WV 6 SEP 75

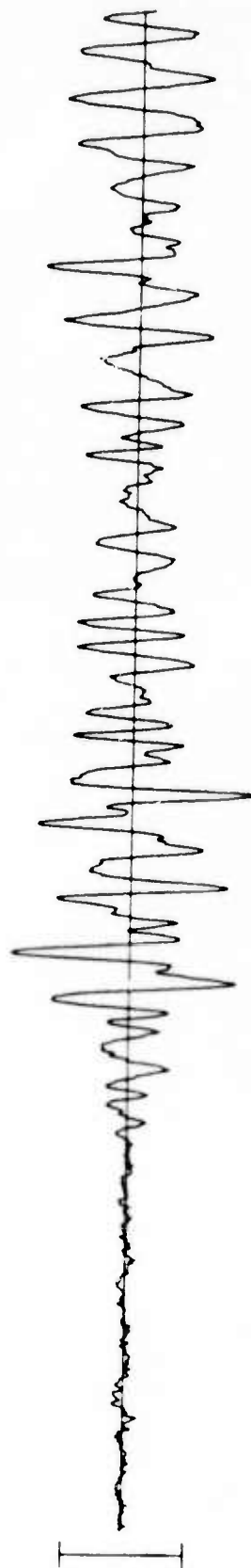
SPZ
199.65 MU



SPR
76.13 MU



SPT
61.66 MU

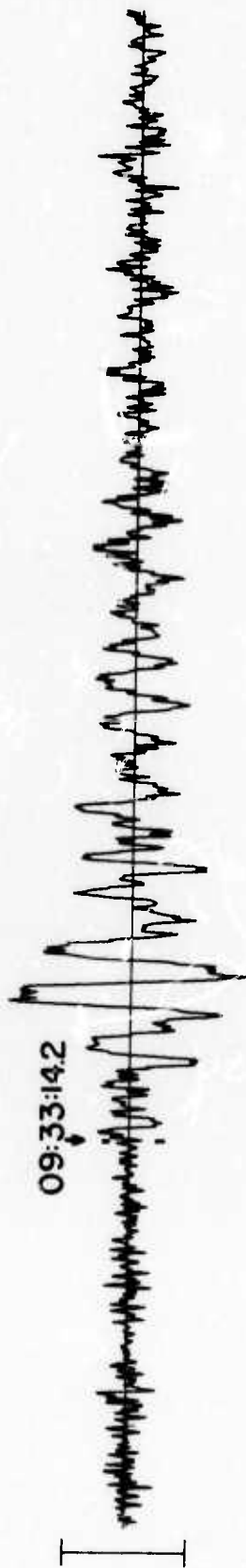


TIME



CPSO 6 SEP 75

SPZ
219.12 MU



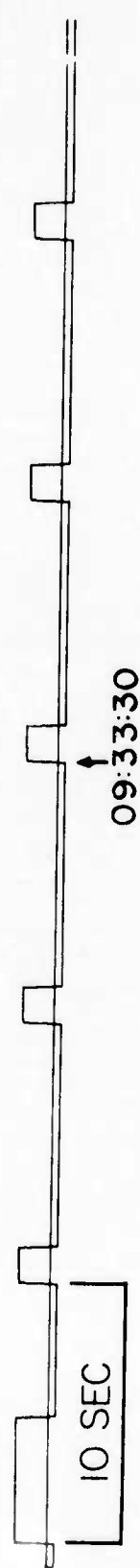
SPR
30.98 MU



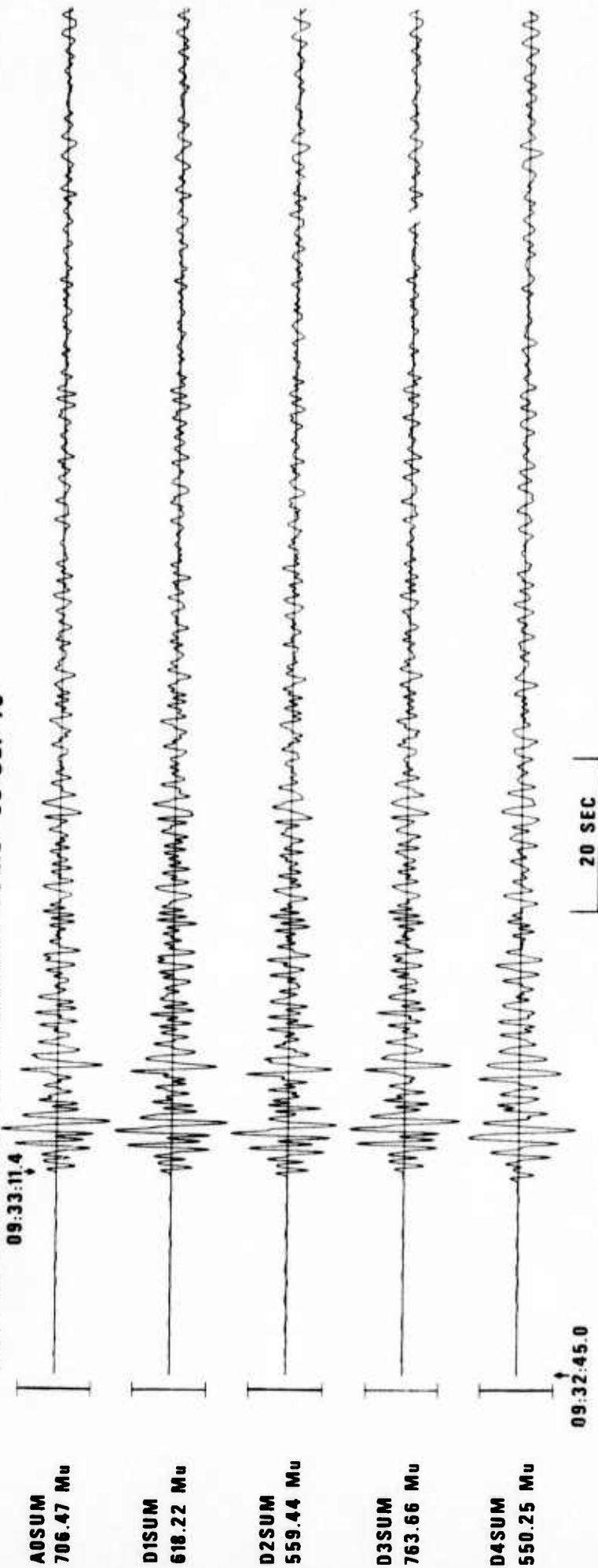
SPT
36.87 MU



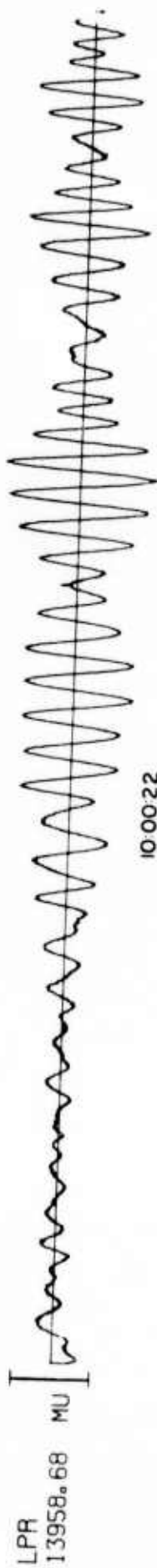
TIME



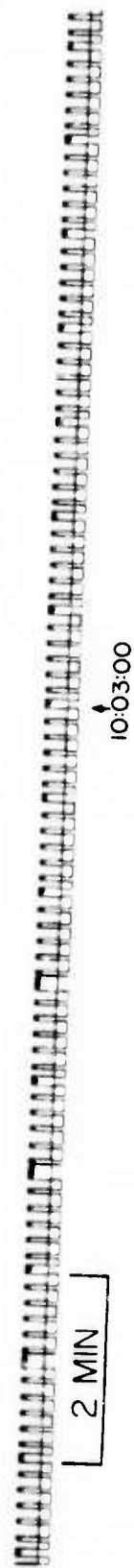
LASA INFINITE VELOCITY SUBARRAY SUMS 06 SEP 75



HN-ME 06 SEP 75



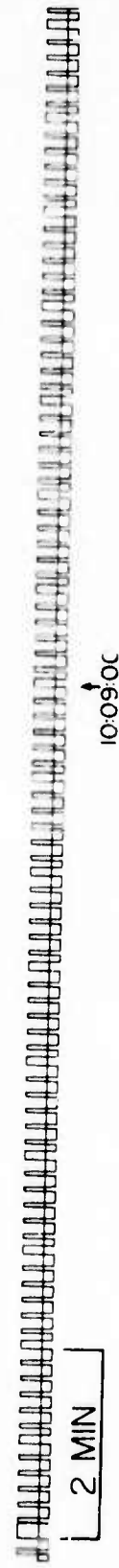
TIME



WH2YK 6 SEP 75

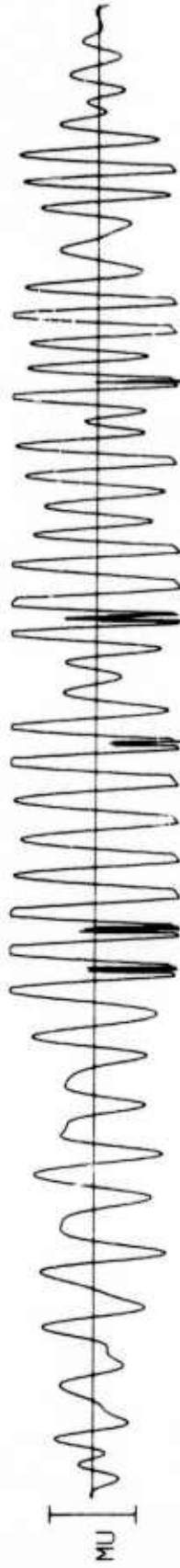


TIME



RK-QN 6 SEP 75

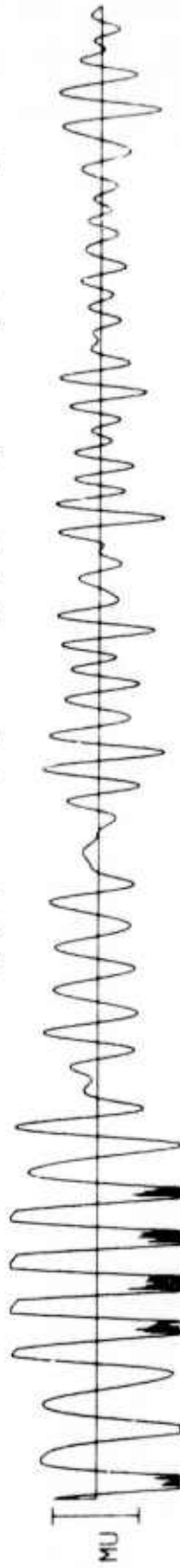
LPZ
22693.59



LPR
21359.11



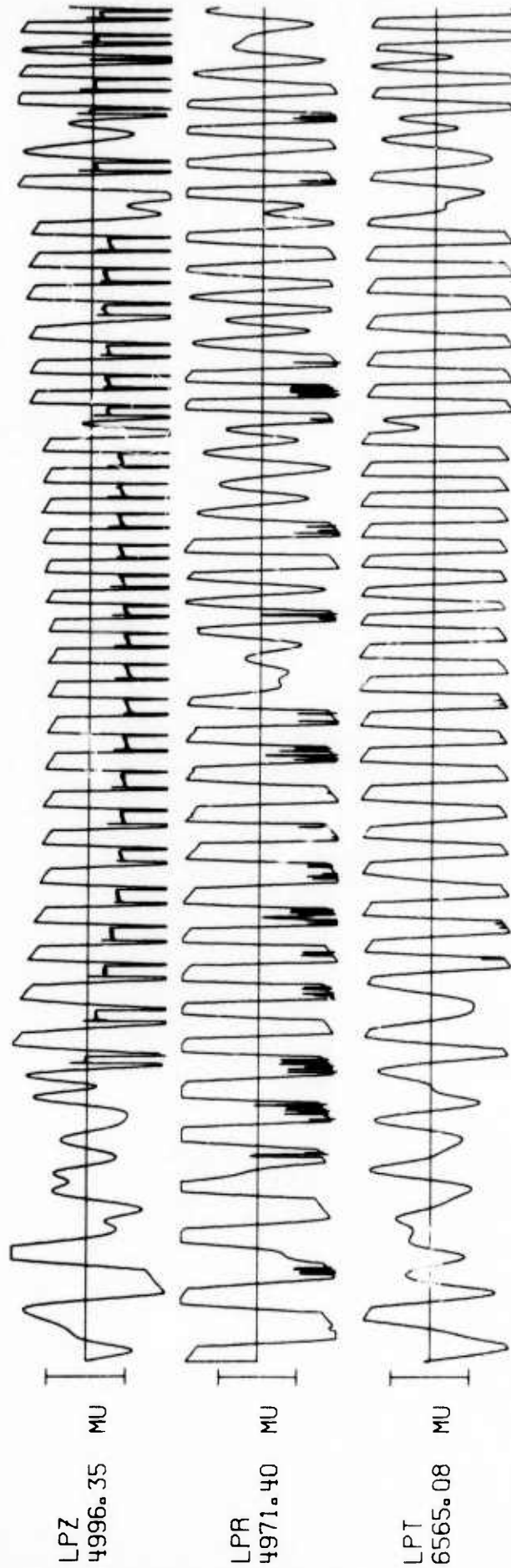
LPT
20953.80



TIME



FN-WV 6 SEP 75

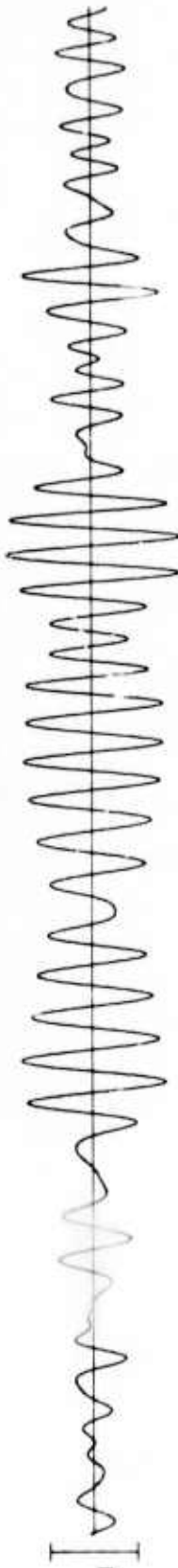


CPS0 6 SEP 75

LPZ
20037.32
MU



LPN
26627.02
MU



LPE
29448.51
MU



TIME



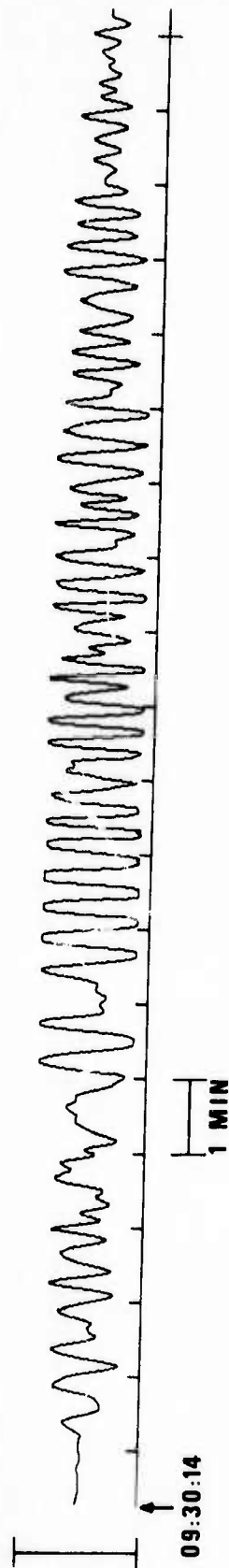
2 MIN

10:10:00

ARRAY LONG PERIOD VERTICAL BEAMS 06 SEP 75

NORSAR

LP VERTICAL
51490.86 Mμ



ALPA

LP VERTICAL
16984.39 Mμ

