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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,
HAWAIIAN ISLANDS, 29 NOVEMBER 1975

TELEDYNE GEOTECH

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**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Hawaiian Islands, 29 November 1975**

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February 1976

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VELA Seismological Center
312 Montgomery Street, Alexandria, Virginia 22314**

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)		

SDCS EVENT REPORT NO. 74

Hawaiian Islands, 29 November 1975

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

Origin Time	Lat.	Long.	m_b	M_s
13:35:30.8	18.7N	156.2W	5.8	5.2

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at all SDCS stations and LASA. NORSAR did not report a "P" arrival for this event. Horizontal SP channels at all SDCS stations were rotated.

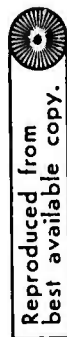
Long-period signals were recorded at all SDCS stations. Horizontal LP channels at all SDCS stations were rotated. Polarity of the LP radial channel at RK-ON is uncertain. ALPA and NORSAR long-period data were not recoverable. LASA long-period data were not included because of complicated recovery procedures.

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

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
RA-ON	Red Lake, Ontario	50	50 20.0 N 095 40 20.0 W	366	18300	SL210 V SL220 H
WHZYK	White Horse, Yukon	60	41 41.0 N 154 58 02.0 W	855	18300	SL210 V SL220 H

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



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HYPOCENTER DETERMINATION

INPUT FOR EVENT 29 NOV 75
 13:36:04.0 19.999N 155.000W OKM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CAIC	REST	REST	REST
WH2YK	13 43 43.8	-0.0	-0.1	44.6	14.7
IAC	13 44 22.5	0.7	0.7	49.4	44.0
BK-CN	13 45 26.6	-0.9	-0.9	58.4	41.3
CFSC	13 46 04.0	-0.5	-0.6	63.9	58.9
FN-WV	13 46 34.1	0.3	0.3	68.4	55.2
HN-ME	13 47 17.3	0.4	0.5	75.6	45.8

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LCNG.	DEPTH (KM)	SDV	IT	STA
NO CONVERGENCE	CN	CAIC	RUN			
13:35:13.6	18.445N	156.423W	-98. CAIC	0.6	16	6
13:35:30.8	18.718N	156.249W	0. REST	0.6	3	6

CALC			REST		
0	0	1	0	0	1
0	0	5	0	0	5
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF. LEVEL, SDV= 1.02
 MAJCF 201.5KM. MINCF 62.1KM. AZ= 52 AREA= 39325 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 29 NOV 75
 13:36:04.0 19.999N 155.000W 0KM.

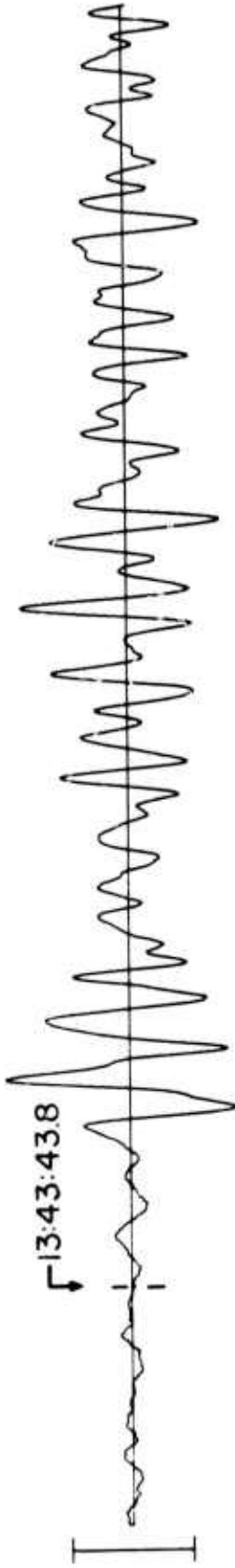
STA.	PHASE	ARRIVAL		INST	FEB	A/T	MAGNITUDE		DIR	DIST
		TIME					MB	MS		
WH2YK	EP	13 43	43.8	SPZ	1.3	96.	5.30			44.6
WH2YK	IQ	13 54	58.0	LPT	19.0	657.				
WH2YK	LR	13 57	15.0	LPZ	22.0	367.		5.33		44.6
IAC M	EP	13 44	22.5	SAE	1.8	1762.	6.70			49.4
RR-CN	EP	13 45	26.6	SPZ	1.2	182.	5.76			58.4
RR-CN	IQ	14 02	56.0	LPT	19.0	231.				
RR-CN	LR	14 05	23.0	LPZ	23.0	169.		5.11		58.4
CFSC	EP	13 46	04.0	SPZ	1.2	403.	6.29			63.9
CFSC	IQ	14 05	53.0	LPT	18.0	449.				
CFSC	LR	14 10	11.0	LPZ	19.0	112.		4.97		63.9
FN-WV	EP	13 46	34.1	SPZ	1.1	128.	5.81			68.4
FN-WV	IQ	14 09	04.0	LPT	14.0	862.				
FN-WV	LR	14 10	00.0	LFR	17.0	221.		5.30		68.4
HN-ME	EP	13 47	17.3	SPZ	1.4	296.	6.03			75.6
HN-ME	IQ	14 12	03.0	LPT	18.0	557.				
HN-ME	LR	14 17	06.0	LPZ	20.0	223.		5.35		75.6

CRIGIN LAT. ICNG. DEPTH (KM) MAG SDV STA LPMAG LPSDV LPSTA
 13:35:30.8 18.718N 156.249W 0. REST 5.84 0.37 5 5.21 0.2 5
 IAC NOT USED IN REST RUN SP AVG. MAG.

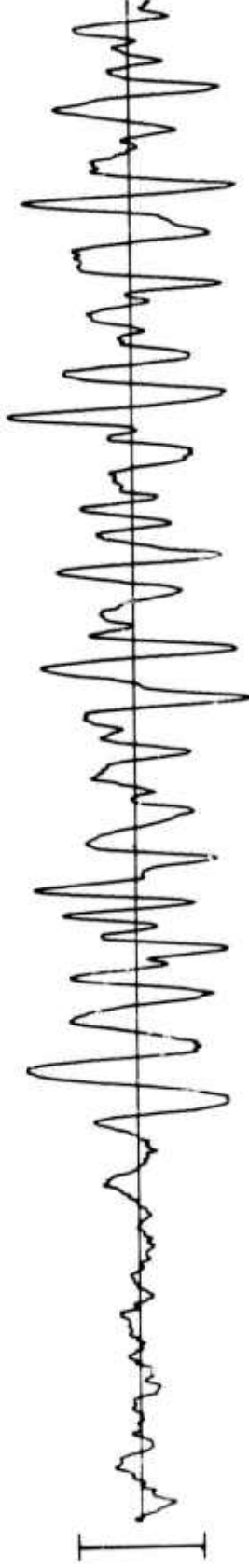
LAO NOT USED IN RESTRAINED SP AVERAGE MAGNITUDE CALCULATION
 BECAUSE ITS MAGNITUDE EXCEEDS THE SDV PARAMETERS OF THE
 HYPOCENTER PROGRAM.

WH2YK 29 NOV 75

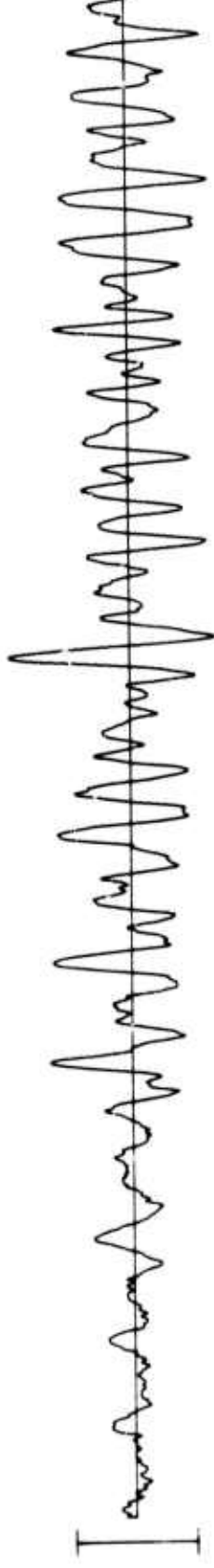
SPZ
39.01 MU



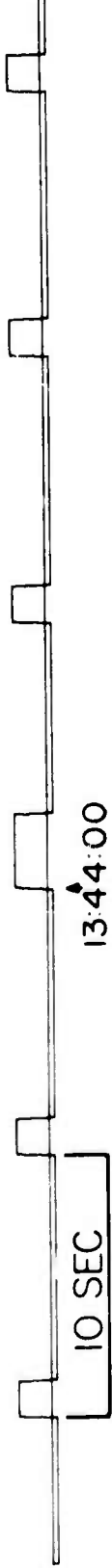
SPR
22.20 MU



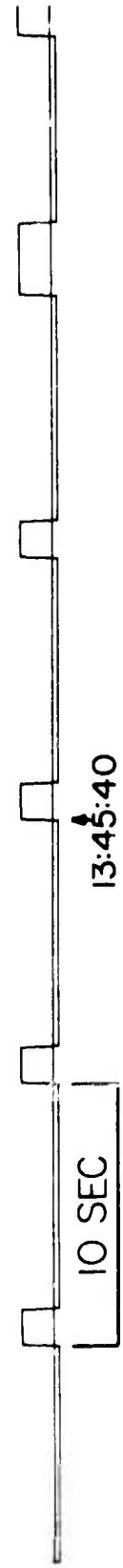
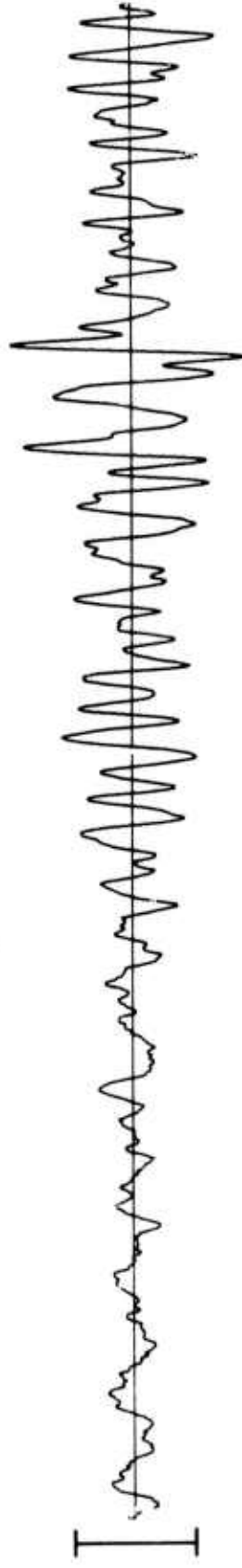
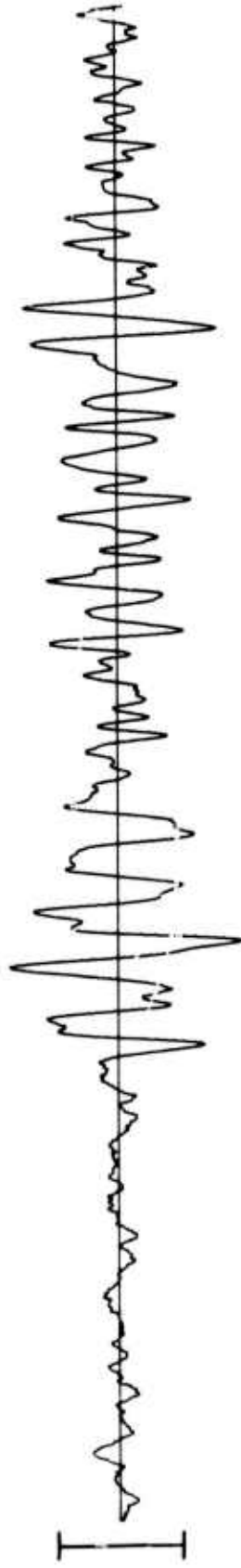
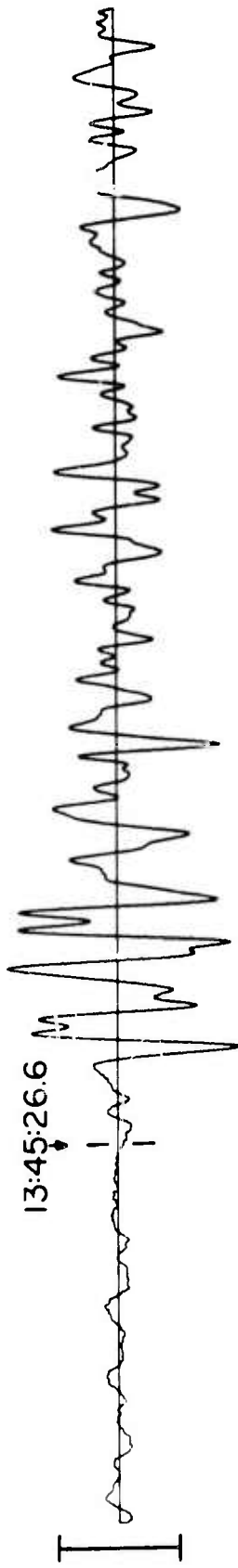
SPT
18.54 MU



TIME



RK-ON 29 NOV 75



13:45:40

6<

CPSO 29 NOV 75

13:46:04.0

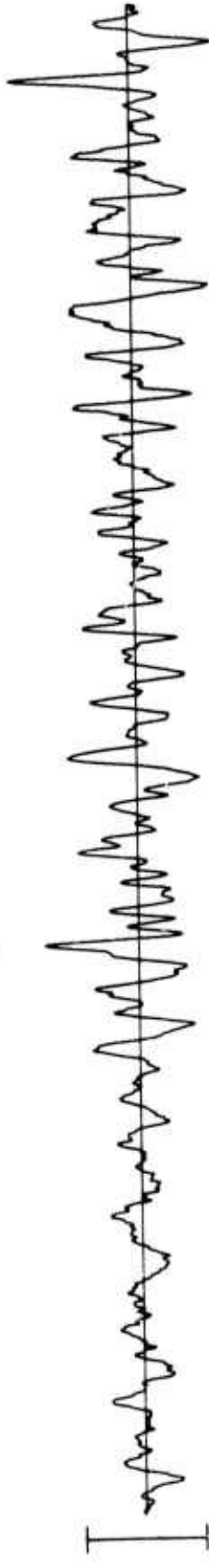
SPZ
197.49 MU



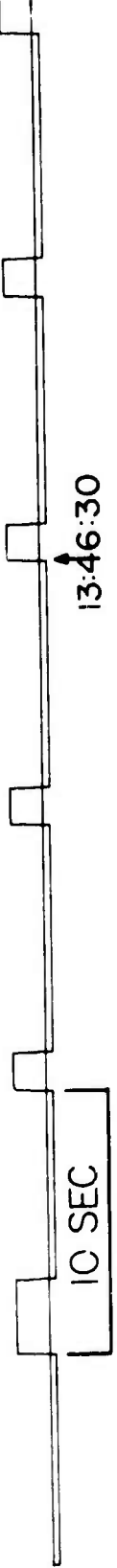
SPR
26.53 MU



SPT
29.18 MU



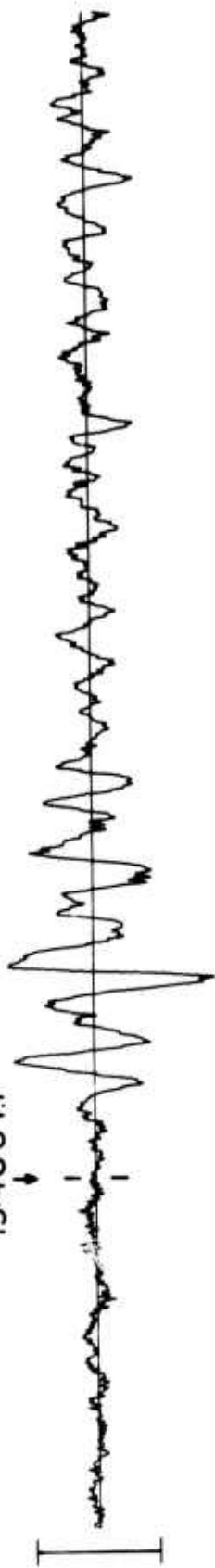
TIME



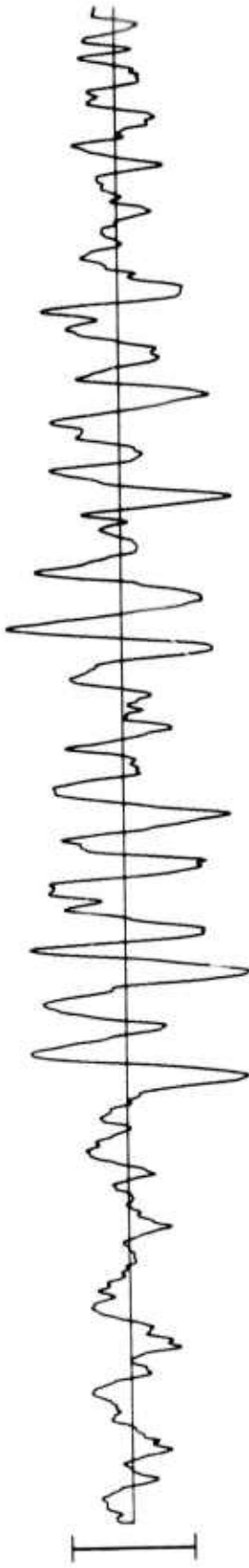
FN-WV 29 NOV 75

SFZ
72.47 MU

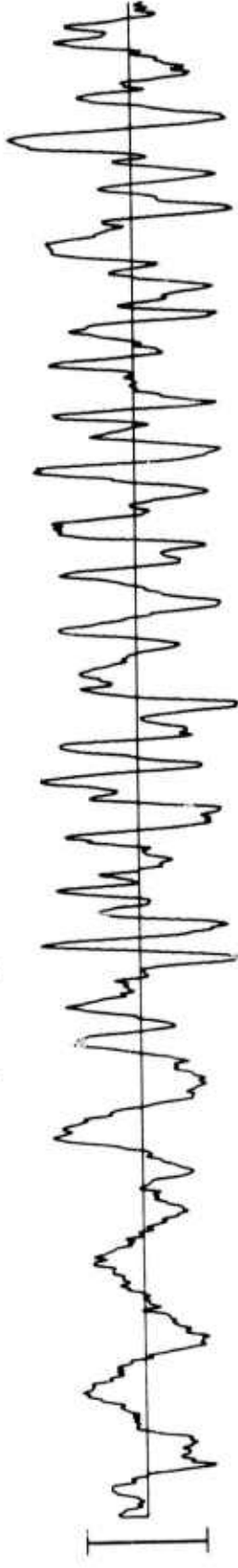
13:46:34.1



SPR
24.10 MU



SPT
15.22 MU



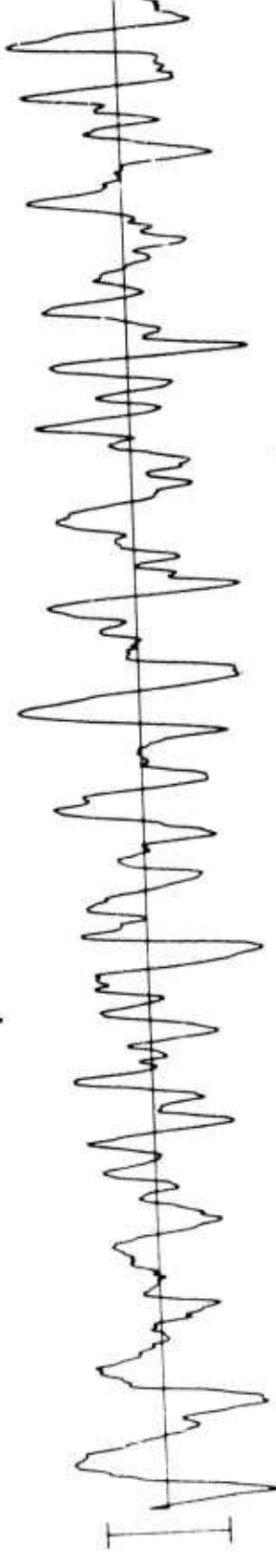
TIME



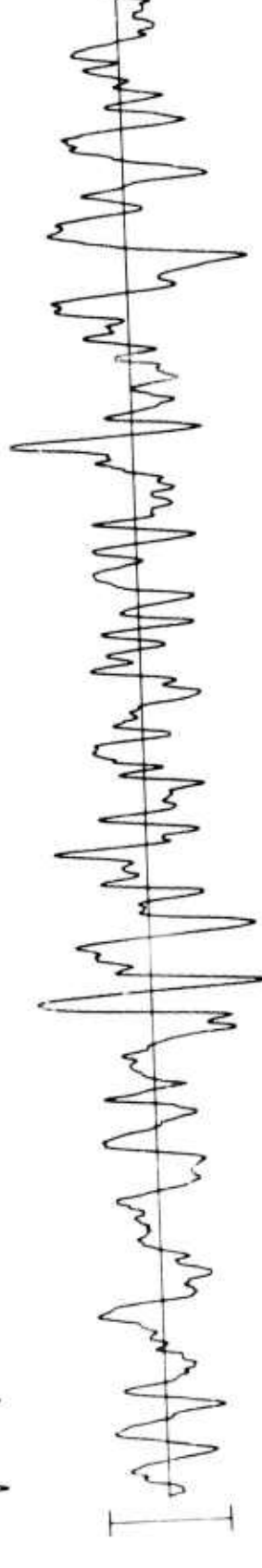
HN-ME 29 NOV 75



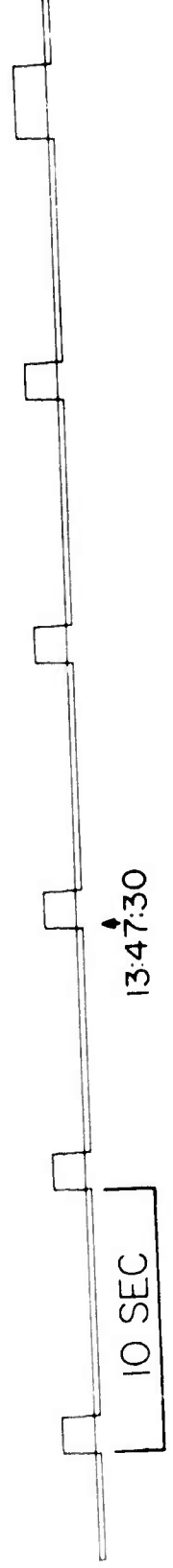
SPZ
79.85 MU



SPR
31.94 MU

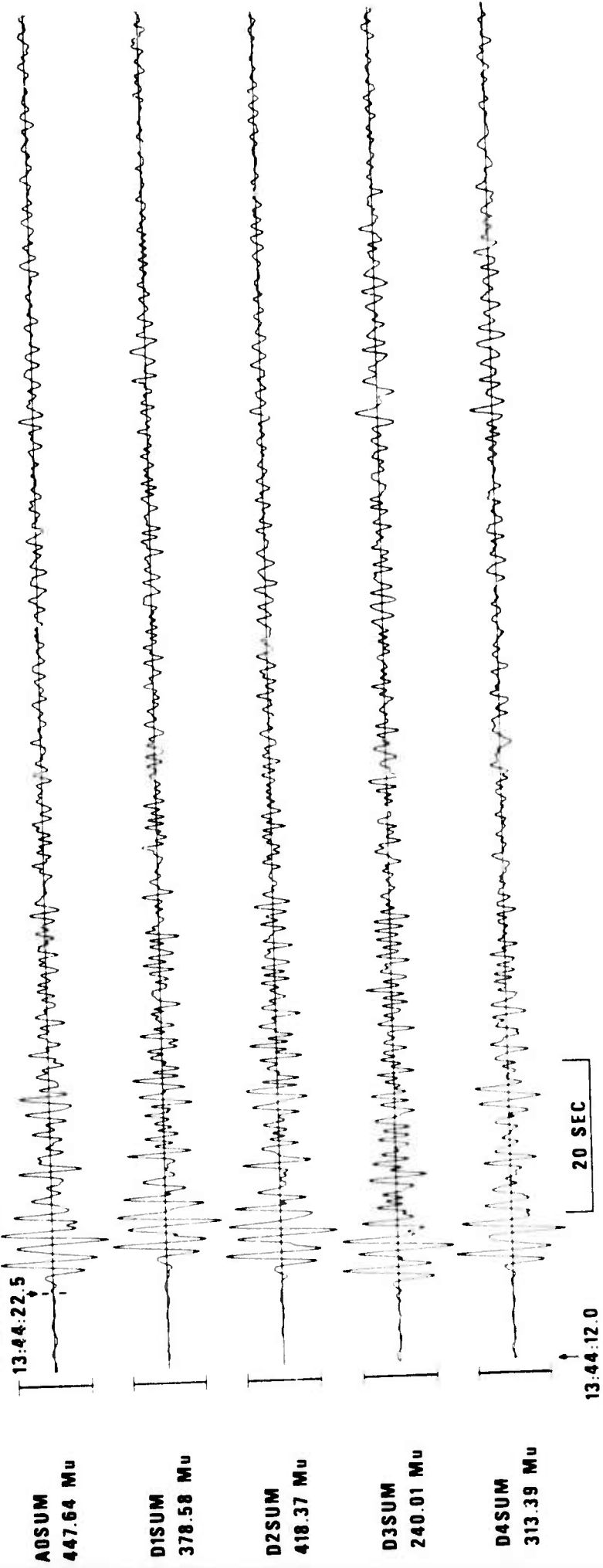


SPT
33.82 MU



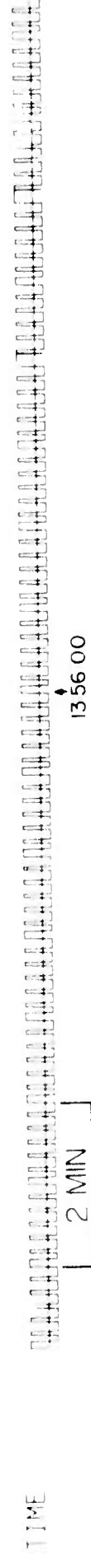
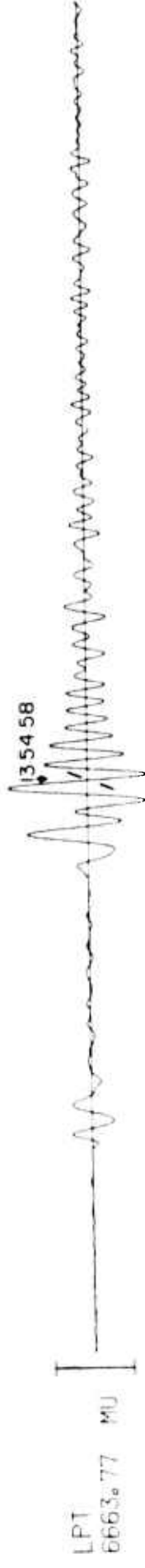
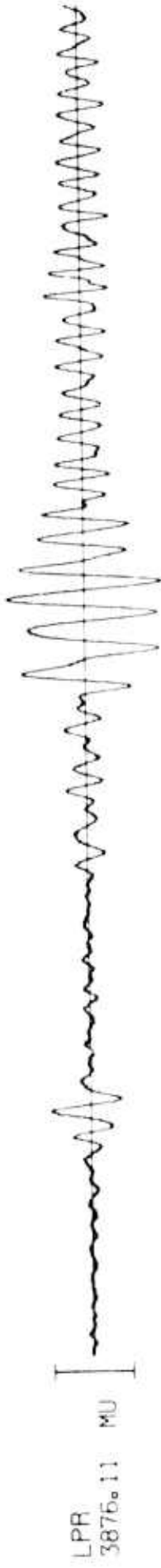
TIME

LASA INFINITE VELOCITY SUBARRAY SUMS 29 NOV 75



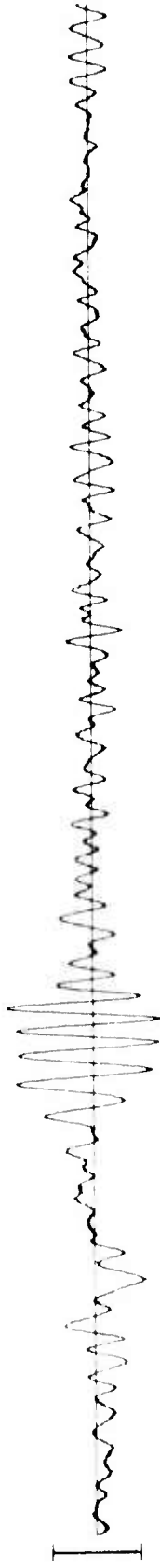
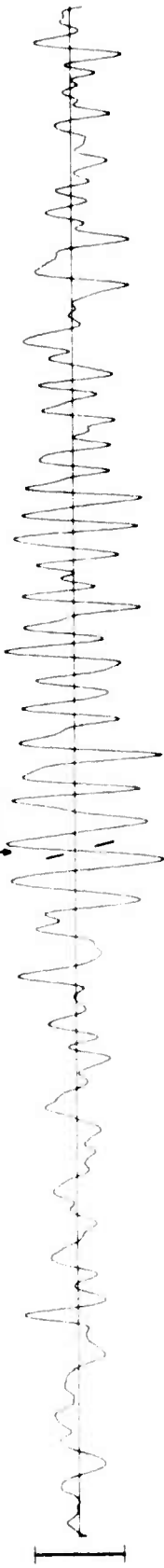
WHL2YR 20 NOV 75

135715

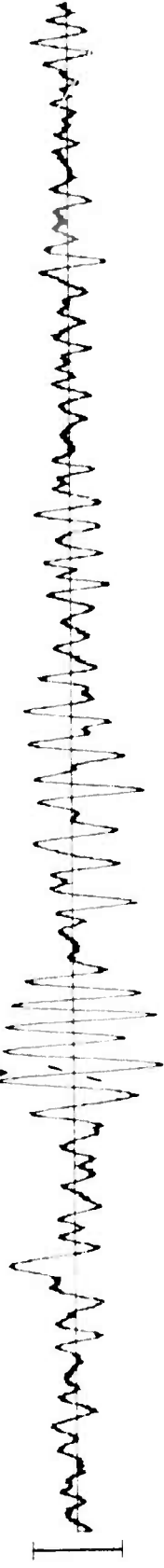


FK-CN 29 NOV 75

14 05 23

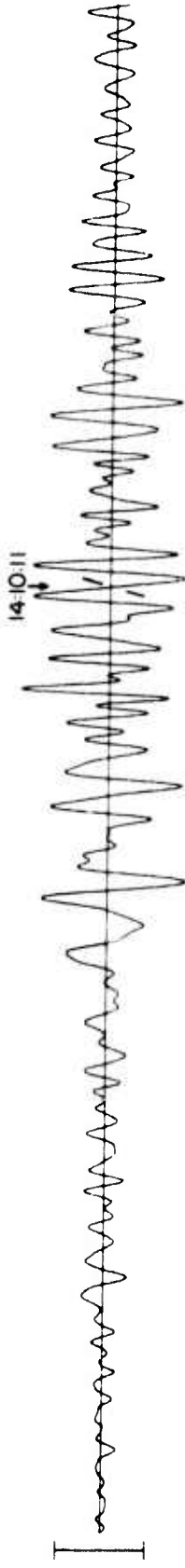


14 02 56

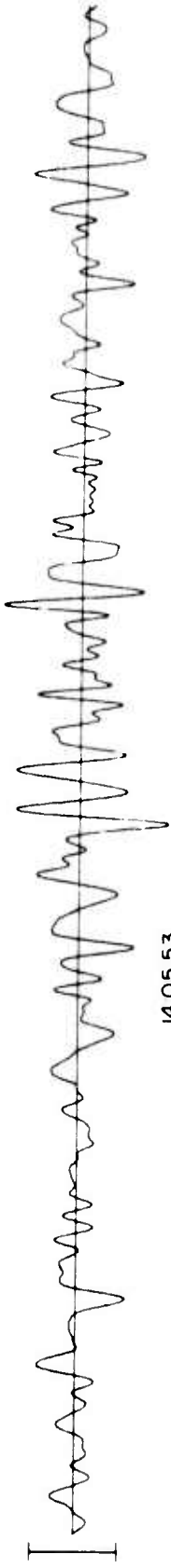


CPSU 29 NOV 75

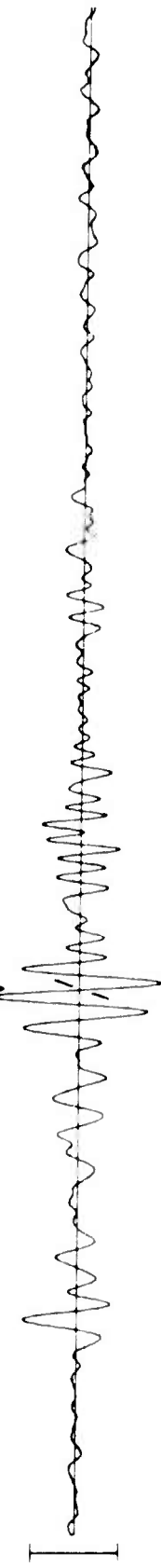
LPZ
1213.29 MU



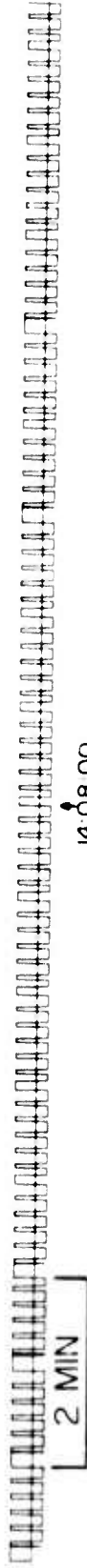
LPR
1472.49 MU



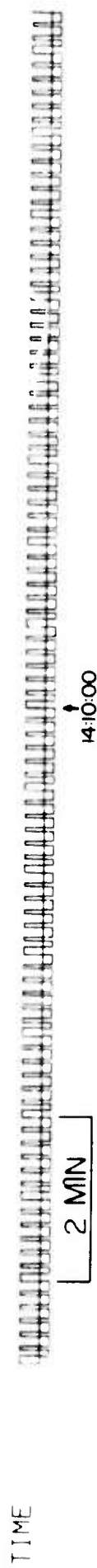
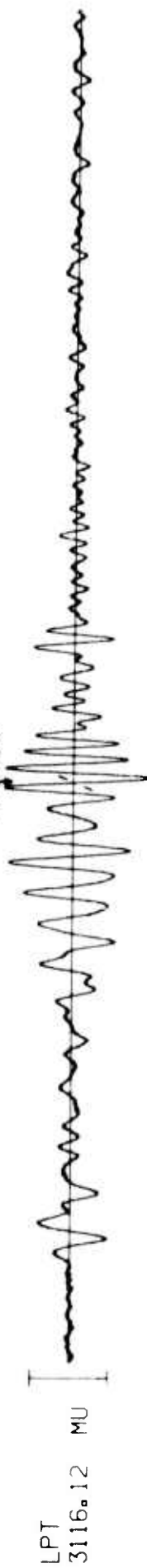
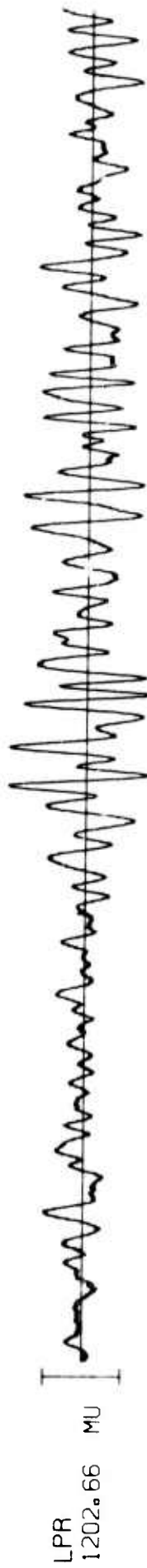
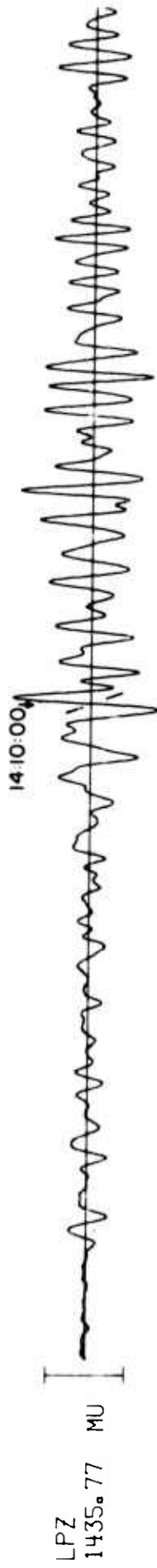
LPT
3703.15 MU



TIME



FN-WV 29 NOV 75



HN-ME 29 NOV 75

