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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
NTS Event "INLET", 20 November 1975

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February 1976

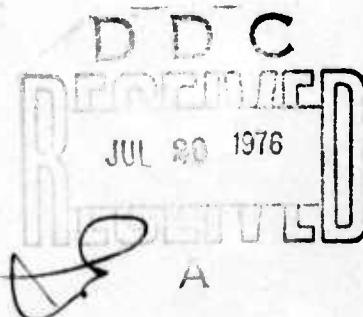
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SDCS EVENT REPORT NO. 71

NTS Event "INLET", 20 November 1975

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

	"p" Arrival	Origin Time	Lat.	Long.	m_b	M_s
NORSAR	15:11:32.0	15:00:06	38 N	116 W	5.6	N/A
Hagfors	15:11:40.6	14:59:45	35 N	119 W	6.3	4.6

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

Origin Time-- 15:00:02.0; Lat.-- 37.3N; Long.-- 116.4W; m_b sub b-- 5.7; M_s sub s-- 4.2.

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.

Long-period signals were recorded at all SDCS stations and NORSAR. Horizontal LP channels at all SDCS stations were rotated. Polarity of the LP radial channel at RK-ON is uncertain. Validity of the NORSAR long-period vertical beam is questionable and horizontal beams were not included due to program recovery problems. ALPA long-period data were not recoverable. LASA long-period data were not included due to complicated recovery procedures.

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.

EVENT REPORT	
DATE	20 NOV 1975
TIME	15:00:02.0
LOCATION	37.3N 116.4W
MAGNITUDE	5.7
STATION	NORSAR
REMARKS	
APPROVED	
SPECIAL	
A	

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES		ELEVATION METERS	INSTRUMENTATION	
		DEG	MN SEC		SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65 14	00.0 N	626	None	31300
		147 44	36.0 W			
CPSO	McMinnville, Tennessee	35 35	41.4 N	574	6480 V	SL210 V
		085 34	13.5 W		7515 H	SL220 H
FN-WV	Franklin, West Virginia	38 32	58.0 N	910	KS36000	KS36000
		079 30	47.0 W			
LASA	Billings, Montana	46 41	19.0 N	744	HS10	7505A V
		106 13	20.0 W			8700C H
HN-ME	Houlton, Maine	46 09	43.0 N	213	18300	SL210 V
		067 59	09.0 W			SL220 H
NORSAR	Kjeller, Norway	60 49	25.4 N	379	HS10	7505A V
		010 49	56.5 E			8700C H
RK-ON	Red Lake, Ontario	50 50	20.0 N	366	18300	SL210 V
		093 40	20.0 W			SL220 H
WH2YK	White Horse, Yukon	60 41	41.0 N	853	18300	SL210 V
		134 58	02.0 W			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 20 NOV 75
 15:00:00.0 37.000N 116.000W 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CAIC	REST	REST	REST
IAC	15 02 53.5	-0.1	0.3	12.0	35.7
FK-CN	15 04 46.3	-0.0	-0.5	21.1	42.9
CPSO	15 05 24.6	-0.2	0.3	24.8	84.7
WH2YK	15 05 37.7	0.2	0.6	26.2	339.2
FN-WV	15 06 02.5	0.0	0.1	29.0	76.2
HN-ME	15 07 09.7	0.6	0.3	36.7	60.5
NAC	15 11 32.0	-0.6	-1.1	73.1	24.1

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
15:00:10.3	37.587N	116.176W	52. CAIC	0.4	3	7
15:00:02.0	37.338N	116.363W	0. REST	0.6	3	7

CAIC				REST			
1	.	1		1	.	1	
0	.	0		0	.	0	
0	0.	3	2	0	0.	3	2
.	.	.	.	.	.	.	.
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= 1.69
 MAJOF 61.6KM. MINCF 37.9KM. AZ= 30 AREA= 7334 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 20 NOV 75
15 00 00.0 37.000N 116.000W OKM.

STA.	PHASE	ARRIVAL TIME	INST	PER	A/T	MAGNITUDE		DIR	DIST
						MB	MS		
LAD M	EP	15 02 53.5	LAD	1.1	642.	6.61			12.0
RK-ON	EP	15 04 46.3	SPZ	0.7	1501.	5.98			21.1
RK-ON	LQ	15 11 59.0	LPT	16.0	216.				
RK-ON	E	15 12 51.0	LPR	13.0	173.				
CPSO	EP	15 05 24.6	SPZ	0.7	945.	6.13			24.8
CPSO	LQ	15 13 42.0	LPT	15.0	1001.				
CPSO	LR	15 15 25.0	LPZ	12.0	2020.		5.82		24.8
WH2YK	EP	15 05 37.7	SPZ	1.0	127.	5.22			25.2
WH2YK	LQ	15 14 46.0	LPT	21.0	313.				
WH2YK	LR	15 16 56.0	LPZ	16.0	828.		5.45		25.2
FN-WV	EP	15 06 02.5	SPZ	0.7	79.	5.20			29.0
FN-WV	LQ	15 15 55.0	LPT	16.0	689.				
FN-WV	LR	15 18 01.0	LPZ	13.0	953.		5.55		29.0
HN-ME	EP	15 07 09.7	SPZ	0.9	580.	6.00			35.7
HN-ME	LQ	15 20 05.0	LPT	17.0	155.				
HN-ME	LR	15 22 47.0	LPZ	16.0	115.		4.74		36.7
NAO	EP	15 11 32.0	AB	0.7	97.	5.57			73.1
NAO	LR	15 42 12.0	LPZ	18.0	16.		4.19		73.1

ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA	LPMAG	LPSDV	LPSTA
15 00 10.3	37.587N	116.176W	52. CALC	5.62	0.45	6	4.19*****		1
15 00 02.0	37.338N	116.363W	0. REST	5.68	0.41	6	4.19*****		1

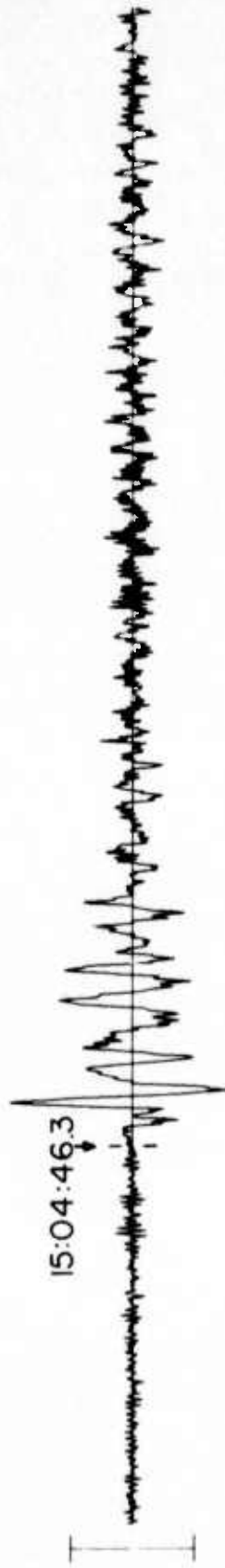
LAD NOT USED IN CALC RUN SP AVG. MAG.
LAD NOT USED IN REST RUN SP AVG. MAG.

Short-period magnitudes (m_b) used in averaging are restricted to those recorded at distances between 20 and 110 degrees from the epicenter.

Average long-period magnitude (M_s) is based on Rayleigh wave observations in the period range of 17 to 23 seconds per cycle.

RK-ON 20 NOV 75

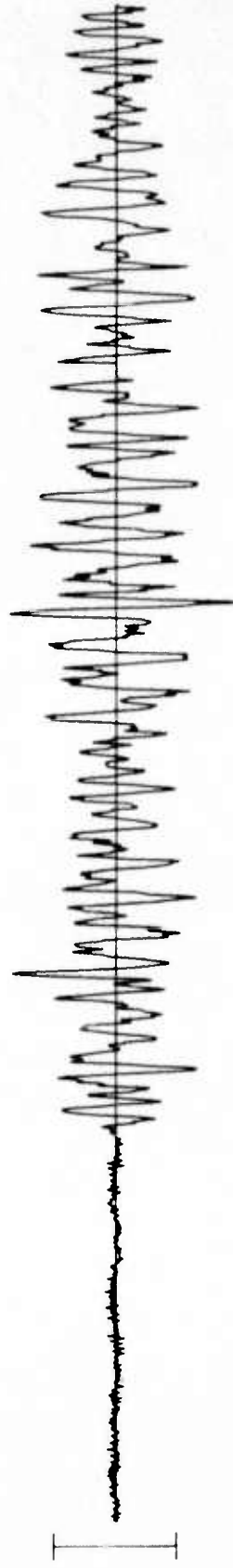
SPZ
1369.50 MU



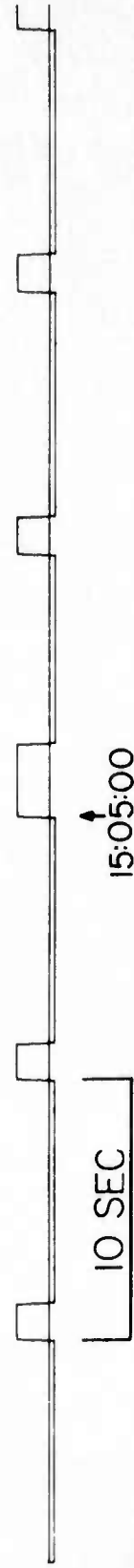
SPR
1084.22 MU



SPT
218.79 MU



TIME



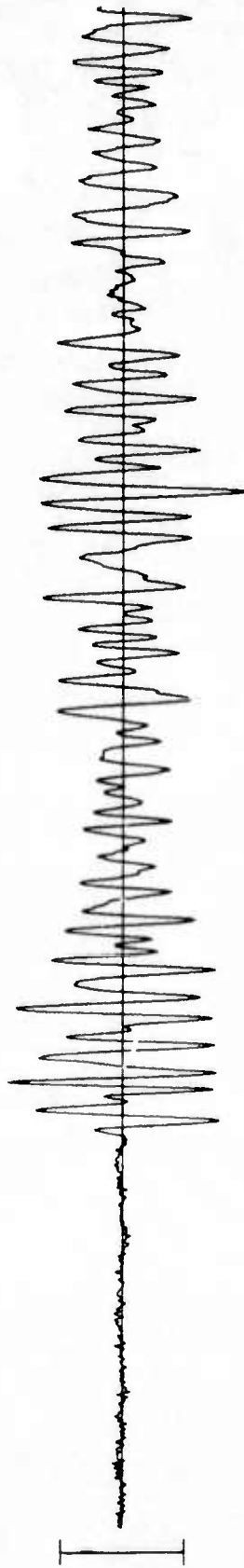
CPS0 20 NOV 75

SPZ
538.40 MU

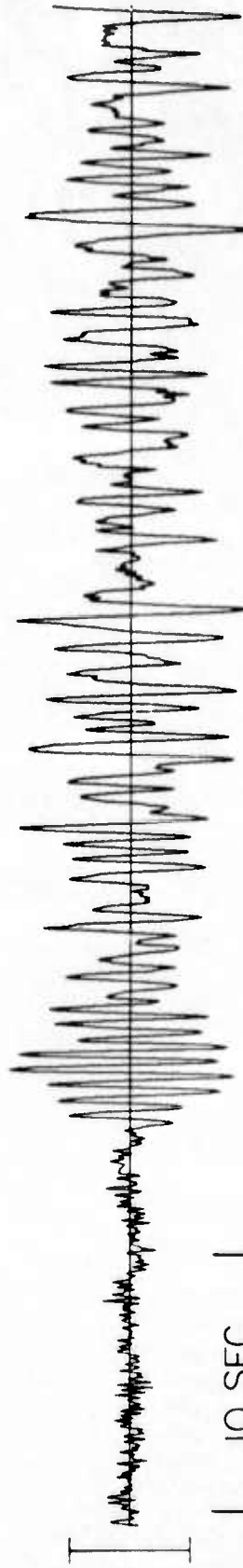
15:05:24.6



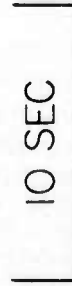
SPR
132.70 MU



SPT
74.80 MU

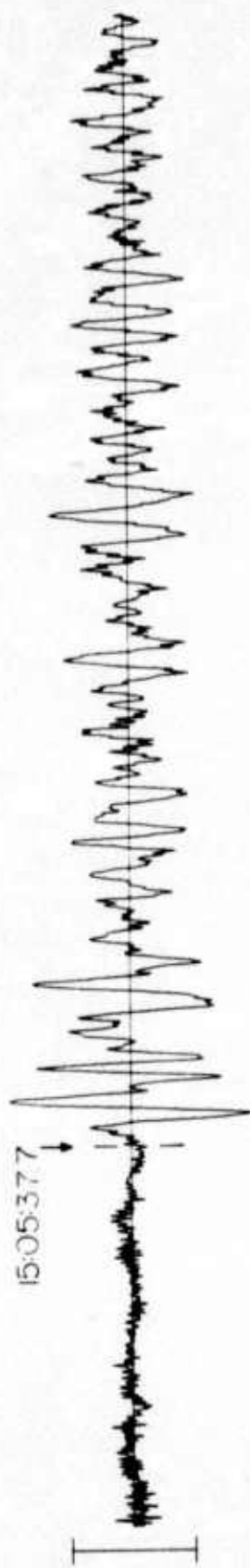


10 SEC

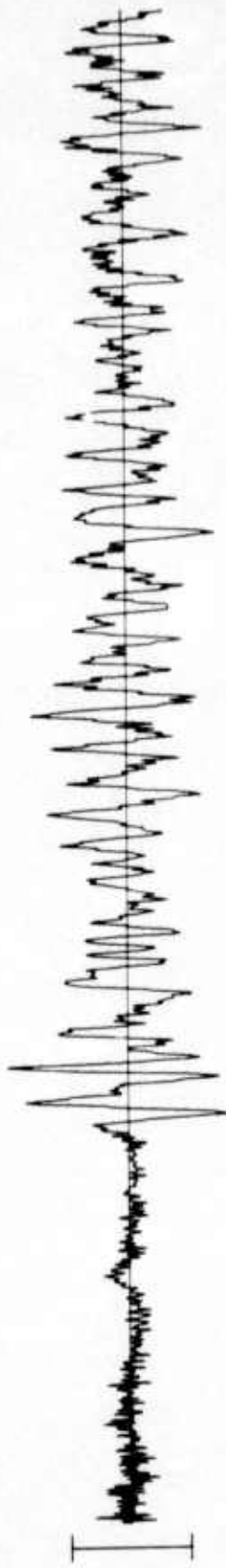


WH2YK 20 NOV 75

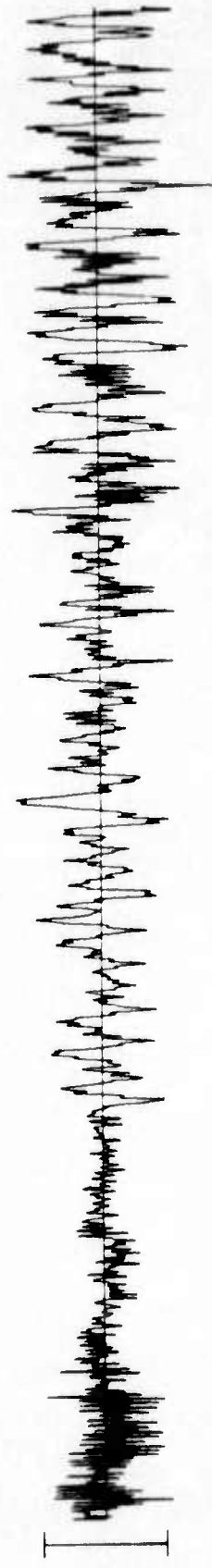
SPZ
65.00 MU



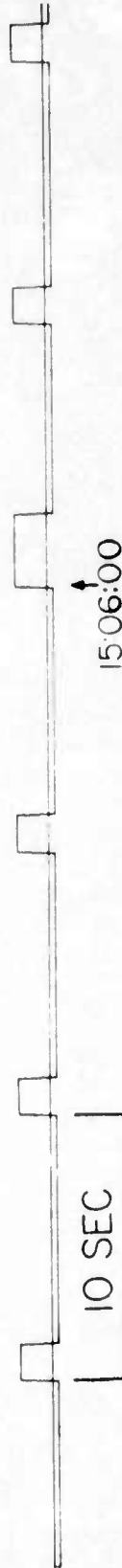
SPR
44.32 MU



SPT
43.15 MU



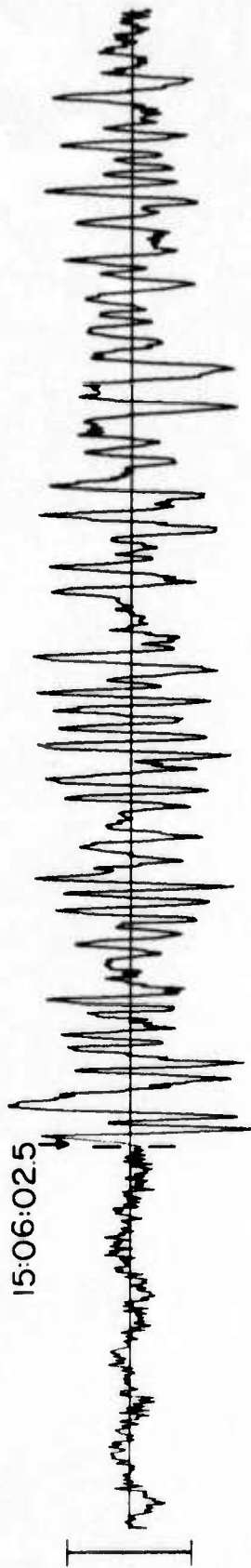
TIME



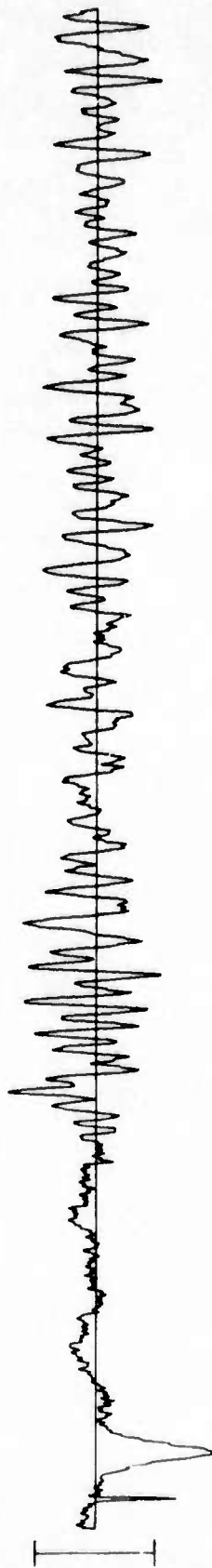
FN-WV 20 NOV 75

SPZ
45.03 MU

15:06:02.5



SPR
71.04 MU



SPT
48.02 MU

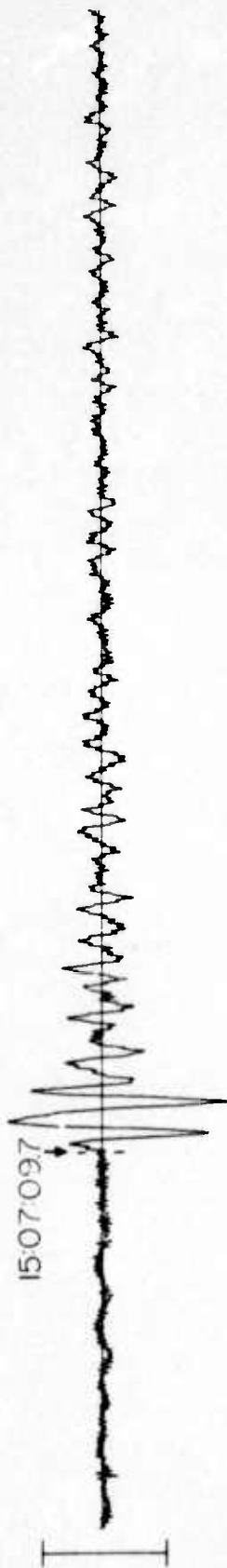


TIME

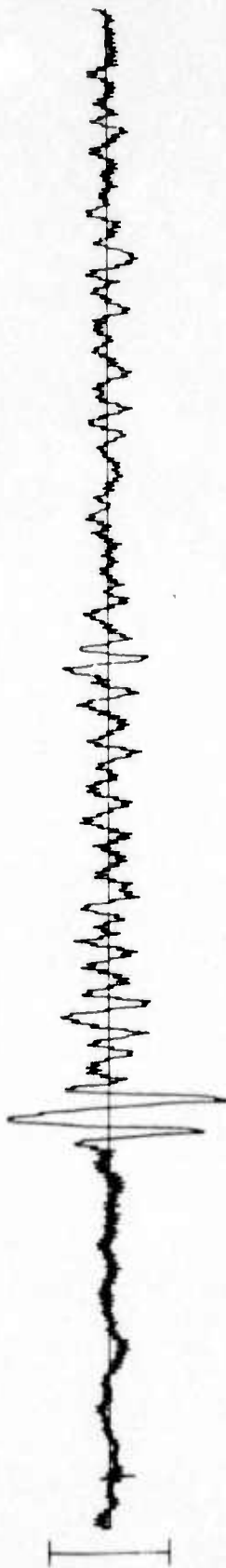


HN-ME 20 NOV 75

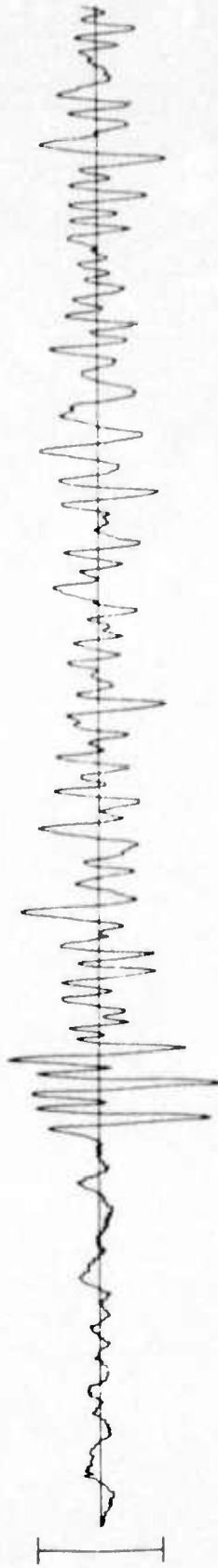
SPZ
427.86 MU



SPR
229.95 MU



SPT
103.15 MU



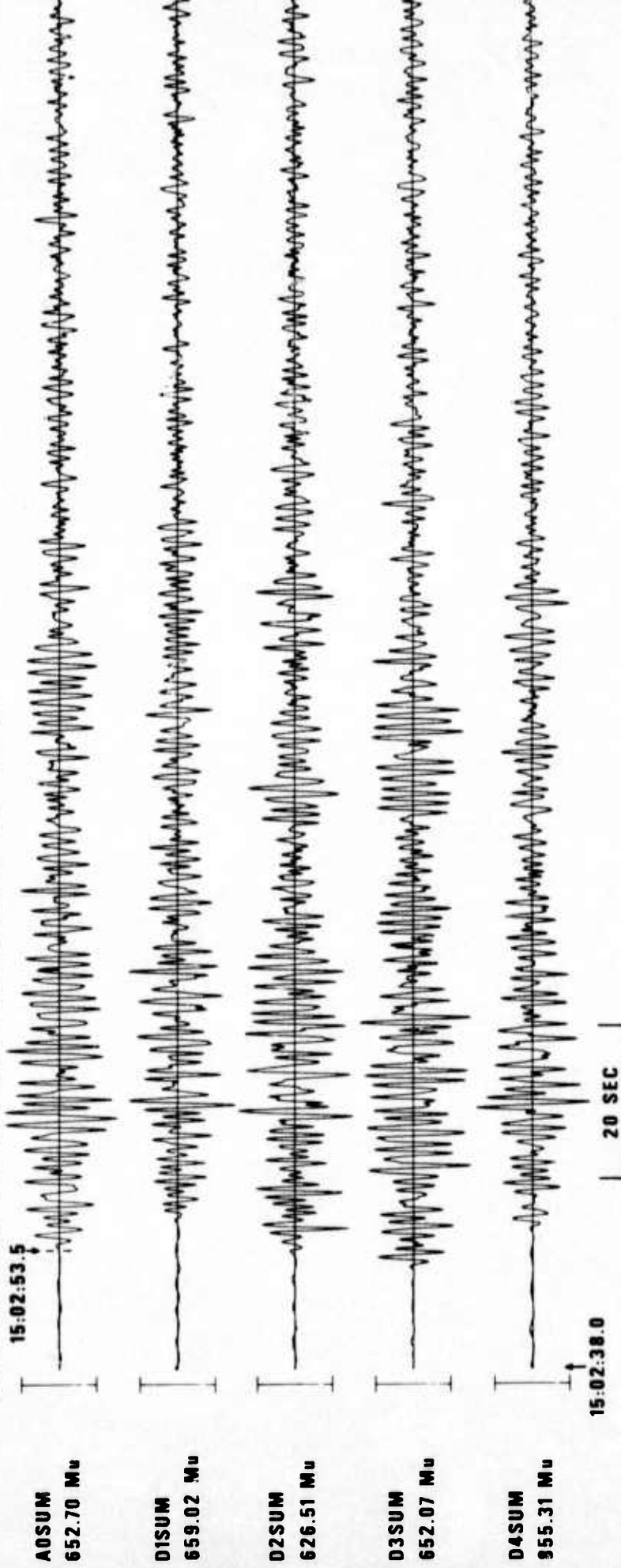
TIME



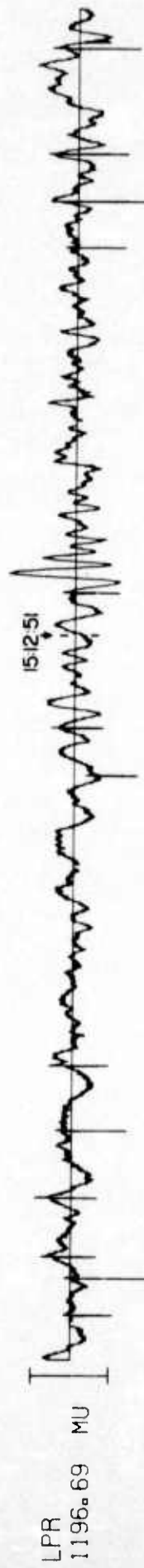
10 SEC

15:07:30

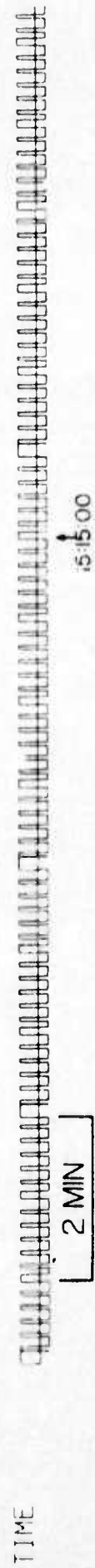
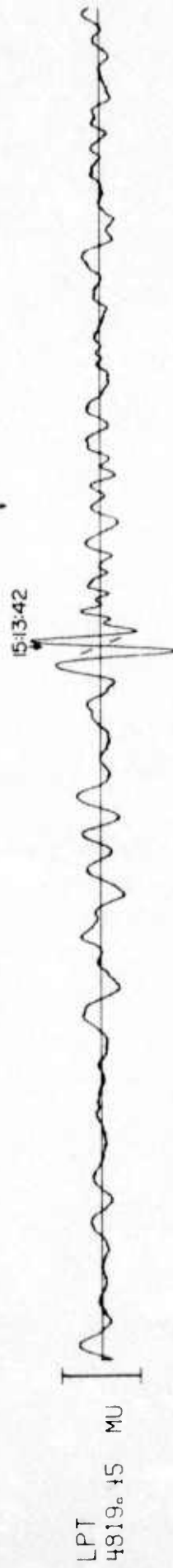
LASA INFINITE VELOCITY SUBARRAY SUMS 20 NOV 75



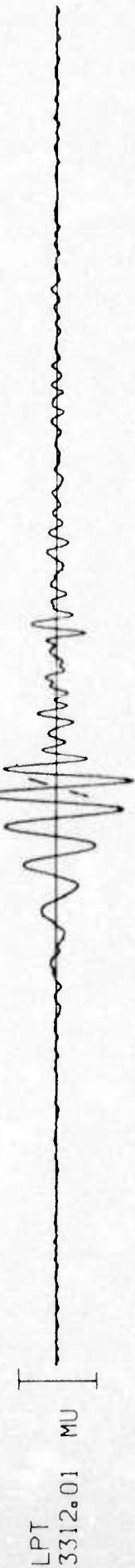
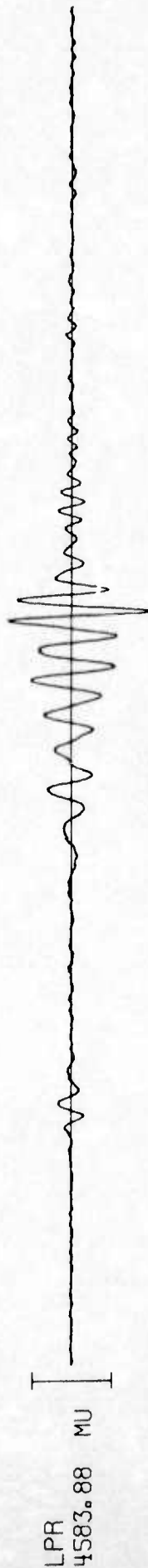
RK-ON 20 NOV 75



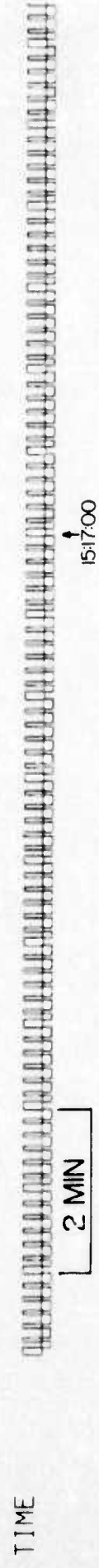
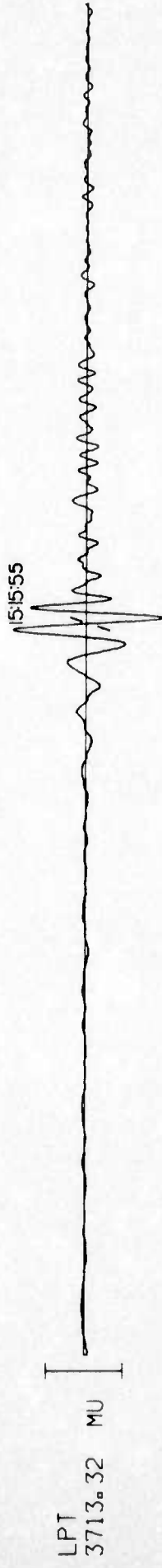
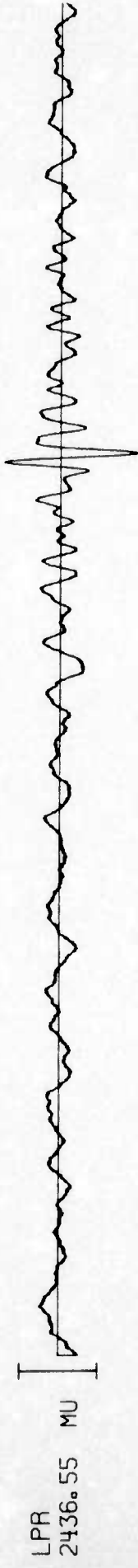
CPS0 20 NOV75



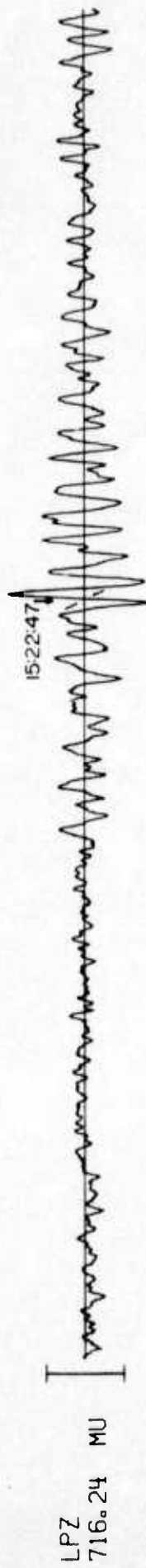
WH2YK 20 NOV 75



FN-WV 20 NOV 75



HN-ME 20 NOV 75



NORSAR LONG PERIOD VERTICAL BEAM 20 NOV 75

