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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT
NORTH ATLANTIC RIDGE, 28 MARCH 1976

TELEDYNE GEOTECH

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MAY 1976

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SDCS-ER-76-96

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**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
North Atlantic Ridge, 28 March 1976**

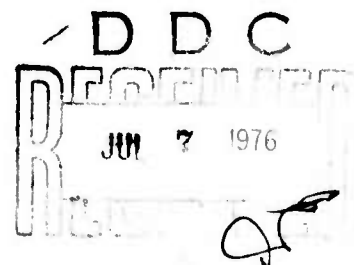
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MAY 1976

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

SDCS EVENT REPORT NO. 96

North Atlantic Ridge, 28 March 1976

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	20:27:32.1	20:19:29	32 N	040 W	5.1	N/A
Hagfors	20:27:39.7	20:19:42	33 N	038 W	5.3	5.2

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

20:19:45.7 34.2N 038.7W 5.3 5.6

The programs used for LASA, NORSAR and ALPA data recovery are presently undergoing modifications. Information for LASA short-period is reported from their Teleseism Event Report; NORSAR short-period is obtained from their bulletin. The long-period array beam recovery for these stations will be resumed upon completion of these modifications.

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at all SDCS stations, LASA and NORSAR. All SP channels at HN-ME had polarity reversals; to correct this, mathematical inversions of the data were performed. Horizontal SP channels at all SDCS stations were rotated.

Long-period signals were recorded at all SDCS stations. All LP channels at HN-ME had polarity reversals; to correct this, mathematical inversions of the data were performed. Horizontal LP channels at WH2YK, CPSO, RK-ON and HN-ME were rotated. Signal clipping prevented rotation of the LP horizontal channels at FN-WV.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response).

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES		ELEVATION METERS	INSTRUMENTATION	
		DEG	MN SECS		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	KS36000	KS36000
		067	59 09.0 W			
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

HYPOCENTER DETERMINATION

INPUT FOR EVENT 28 MAR 76
 20:19:29.0 32.000N 40.000W 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CALC	REST		
HN-ME	20 25 12.1	0.1	-0.1	25.2	307.1
FN-WV	20 26 22.1	0.8	0.7	33.0	289.6
CPSO	20 27 05.7	-0.6	-0.6	38.2	285.9
RK-ON	20 27 43.4	-0.7	-0.6	42.8	310.1
NAO	20 27 32.1	-0.0	-0.1	41.3	34.4
LAO	20 28 51.7	0.1	0.2	51.4	305.5
WH2YK	20 30 18.8	0.3	0.6	63.8	327.0

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
20:19:38.8	34.154N	38.702W	-46. CALC	0.5	4	7
20:19:45.7	34.157N	38.716W	0. REST	0.5	3	7

CALC			REST		
0	.	0	0	.	0
4	.	1	4	.	1
2	0.	0	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= 1.20
 MAJOR 128.6KM. MINOR 28.3KM. AZ= 165 AREA= 11454 SQ.KM. REST

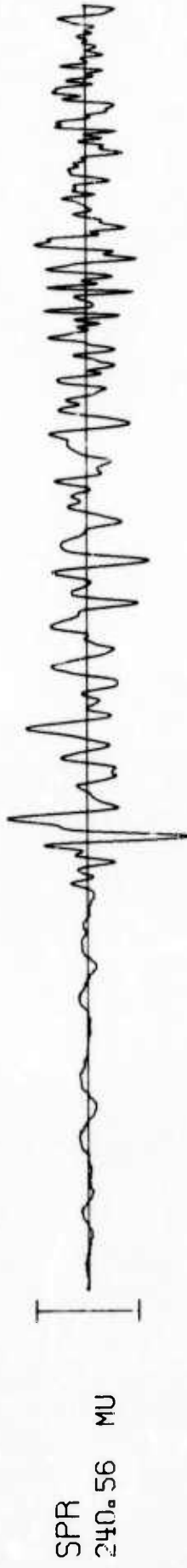
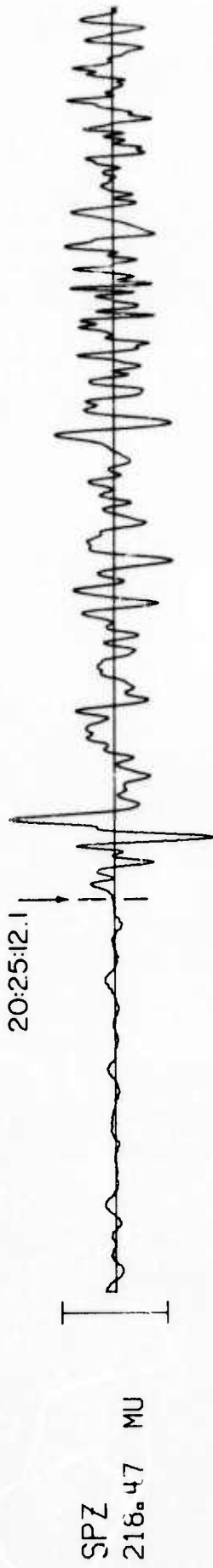
DATA SUMMARY

INPUT FOR EVENT 28 MAR 76
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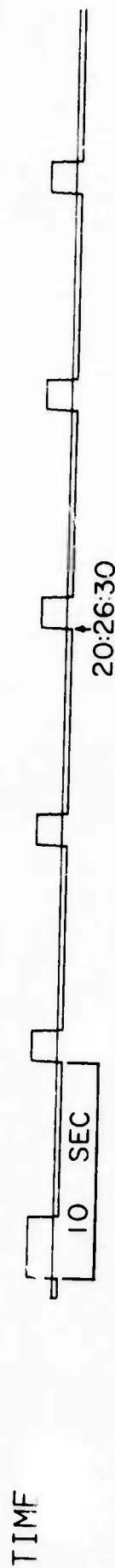
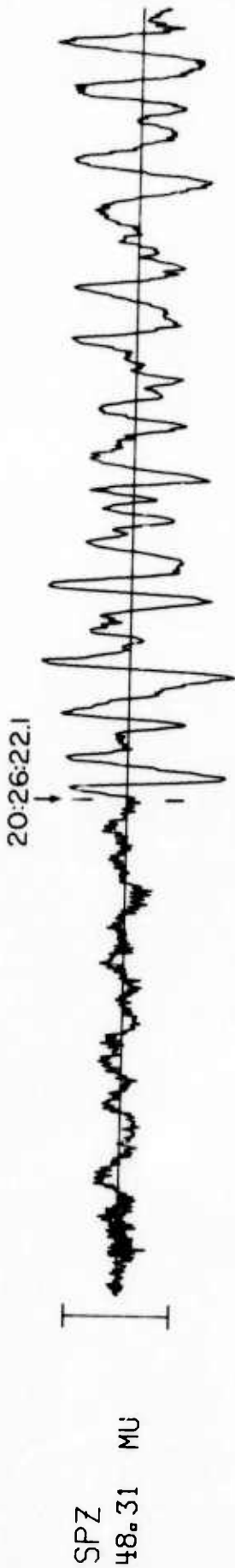
STA.	PHASE	ARRIVAL		INST	PER	A/T	MAGNITUDE		DIB	DIST
		TIME					MB	MS		
HN-ME	EP	20 25	12.1	SPZ	0.9	228.	5.53			25.2
HN-ME	LQ	20 31	47.0	LPT	27.0	671.				
HN-ME	LR	20 33	38.0	LPZ	21.0	9999.		0.0		25.2
FN-WV	FP	20 26	22.1	SPZ	1.4	127.	5.50			33.0
FN-WV	LQ	20 33	48.0	LPT	35.0	9999.				
FN-WV	LR	20 37	29.0	LPZ	18.0	512.		5.35		33.0
CPSO	EP	20 27	05.7	SPZ	1.2	44.	4.83			38.2
CPSO	LQ	20 36	47.0	LPT	29.0	1104.				
CPSO	LR	20 39	26.0	LPZ	20.0	639.		5.51		38.2
NAO	EP	20 27	32.1	AB	1.2	69.	5.04			41.3
RK-ON	EP	20 27	43.4	SPZ	0.9	155.	5.39			42.8
RK-ON	LQ	20 41	33.0	LPT	20.0	651.				
RK-ON	LR	20 44	42.0	LPZ	20.0	1673.		5.97		42.8
LAO	EP	20 28	51.7	SAB	99.9	9999.				
WH2YK	EP	20 30	18.8	SPZ	0.8	85.	5.61			63.8
WH2YK	LQ	20 54	04.0	LPT	19.0	377.				
WH2YK	LR	20 57	17.0	LPZ	20.0	9999.		0.0		63.8

ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA	LPMAG	LPSDV	LPSTA
20:19:38.8	34.154N	38.702W	0. CALC	5.32	0.31	6	5.61	0.3	3
20:19:45.7	34.157N	38.716W	0. REST	5.32	0.31	6	5.61	0.3	3

HN-ME 28 MAR 76



FN-WV 28 MAR 76



CP-S0 28 MAR 76

SPZ
20.97 MU



SPR
4.53 MU



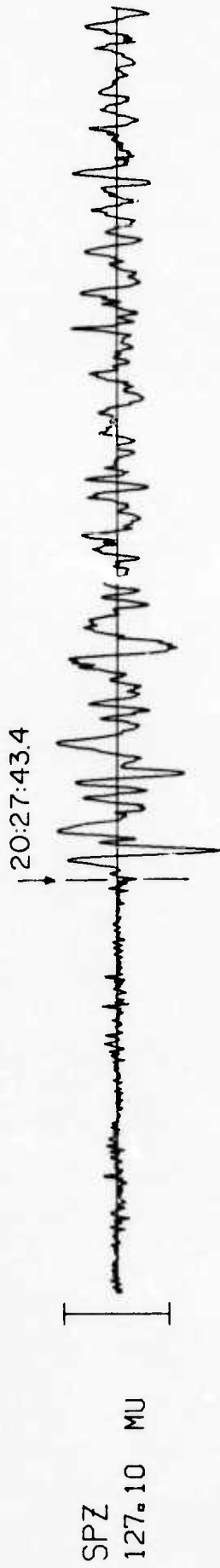
SPT
3.59 MU



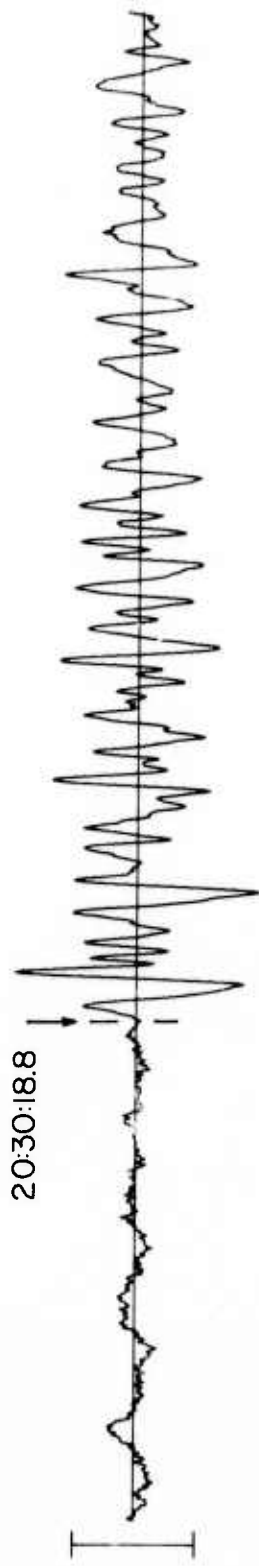
TIME



RK-ON 28 MAR 76



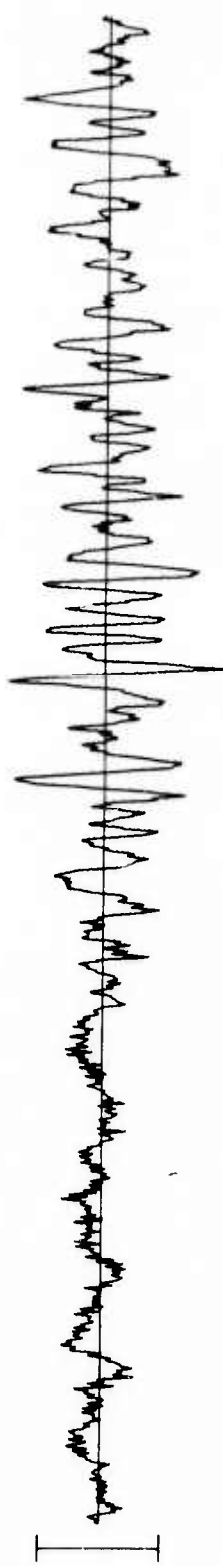
WH2YK 28 MAR 76



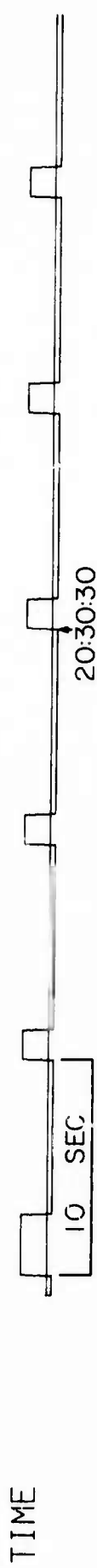
SPZ
61.73 MU



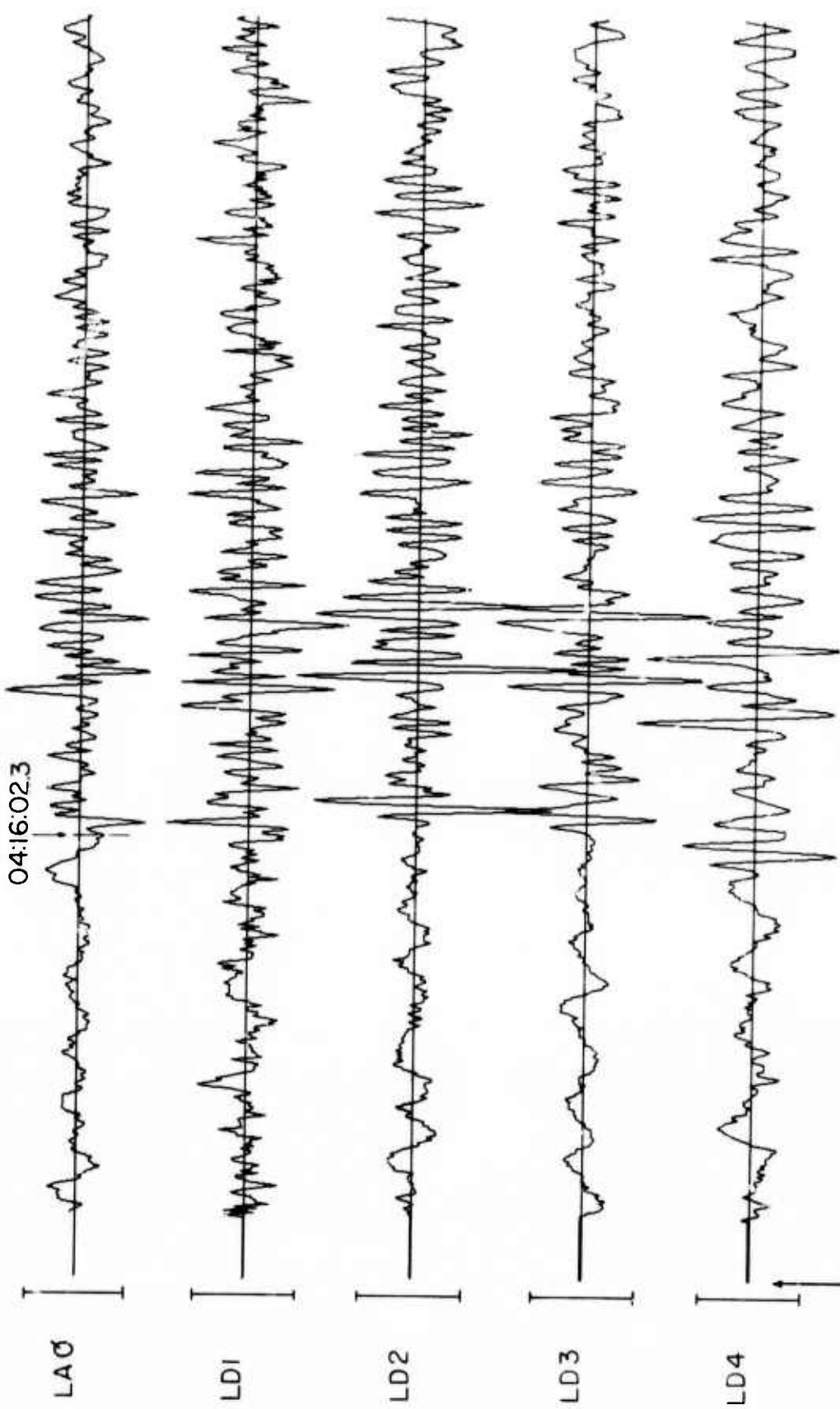
SPR
24.45 MU



SPT
29.52 MU

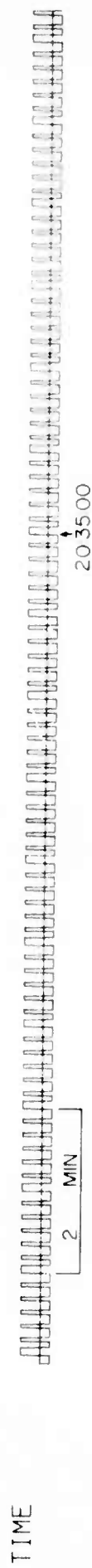
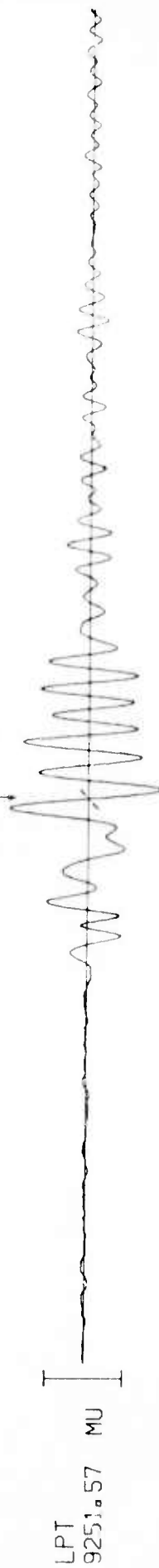
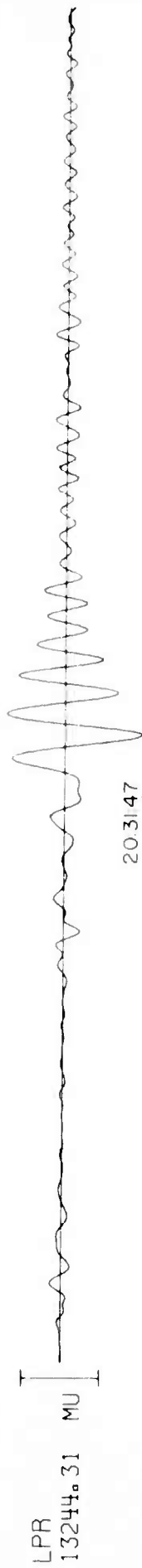
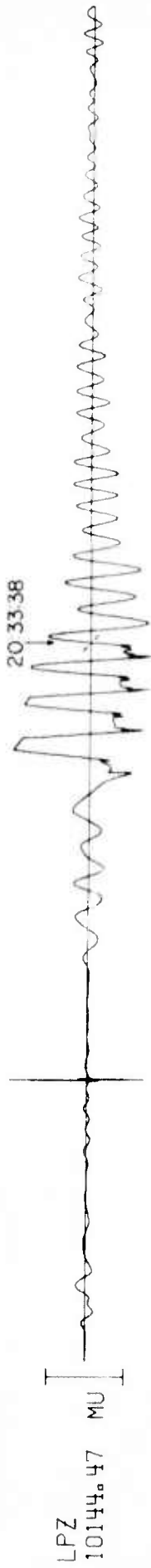


LASA INFINITE VELOCITY SUBARRAY SUMS 20 MAR 76



04:15:40 [2 IN.] ALL SCALING FACTORS 21.15 MU.

HN-ME 28 MAR 76



FN-WV 28 MAR 76

LPZ
4686.95

MU

20:37:29

LPR
5144.69

MU

20:33:48

LPT
5305.01

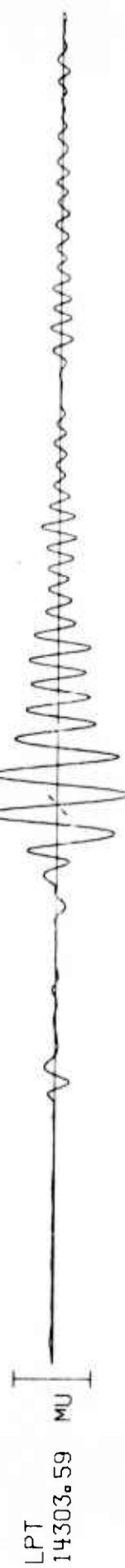
MU

TIME

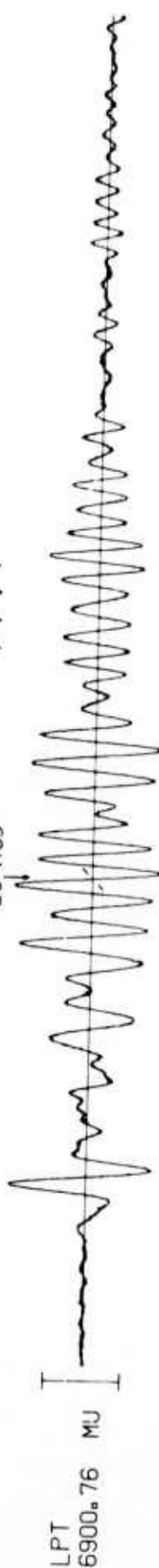
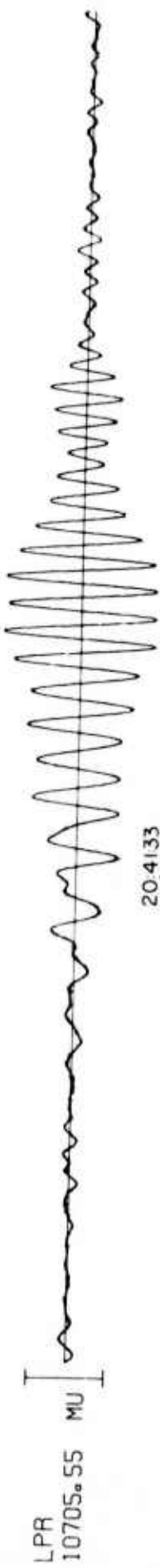
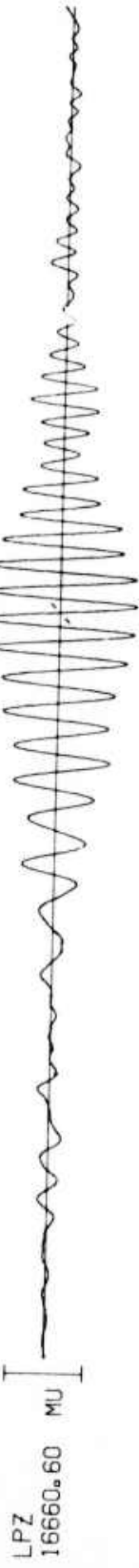
2 MIN

20:35:00

CPSO 28 MAR 76

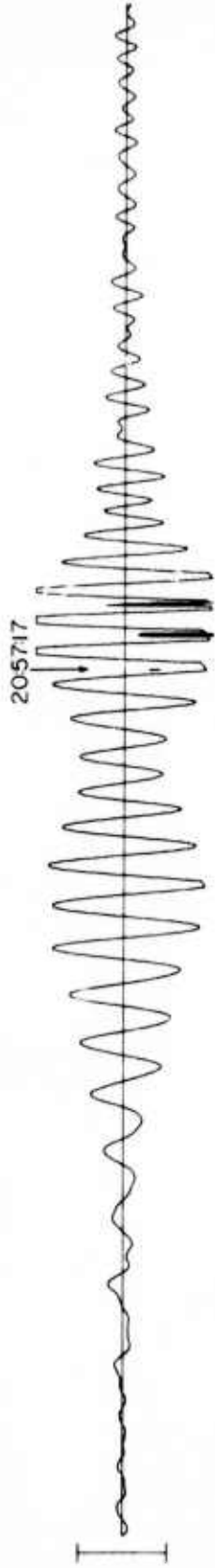


RK-0N 28 MAR 76

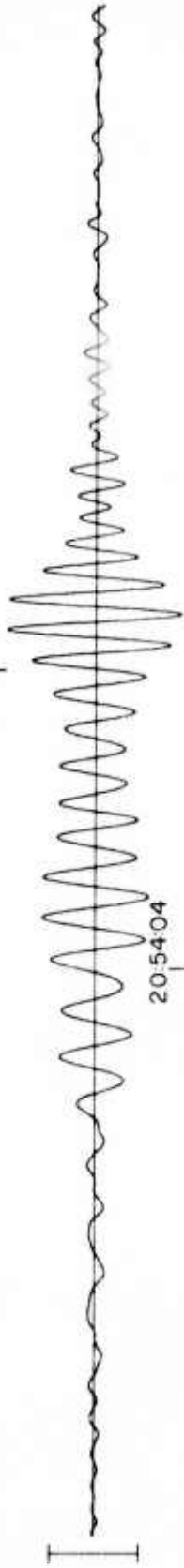


WH2YK 28 MAR 76

LPZ
5803.73
MU



LPR
6987.82
MU



LPT
3640.37
MU



TIME

