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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,
NEAR COAST OF NORTHERN CALIFORNIA, 7 JUNE 1975

K. J. Hill, et al

Teledyne Geotech

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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Near Coast of Northern California, 7 June 1975

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January 1976

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SDCS EVENT REPORT NO. 65

event on
Near Coast of Northern California, 7 June 1975.

7/6
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: *given*

	"P" Arrival	Origin Time	Lat.	Long.	m_b	M_s
NORSAR	08:57:48.0	08:46:24	40 N	124 W	5.5	N/A
LASA	08:49:44.2	08:46:10	39.1N	124.3W	5.8	N/A
Hagfors	08:57:56.0	08:46:56	45 N	118 W	6.1	5.8

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

08:46:21.8 40.6N 124.0W 5.3 5.5

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, ALPA, LASA, and NORSAR. The LP vertical instrument at HN-ME was not responding properly. Horizontal LP channels at HN-ME, WH2YK, RK-ON, and CPSO were rotated. Signal clipping at FN-WV prevented rotation of the LP horizontal channels. Validity of the ALPA, LASA and NORSAR long-period vertical beams is questionable and horizontal beams were not included because of program recovery problems.

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	MIN	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 7515 H	SL210 V SL220 H
		085 34	13.5	W			
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 8700C H
		106 13	20.0	W			
HN-ME	Houlton, Maine	46 09	43.0	N	213	18300	SL210 V SL220 H
		067 59	09.0	W			
NORSAR	Kjeller, Norway	60 49	25.4	N	379	HS10	7505A V 8700C H
		010 49	56.5	E			
RK-ON	Red Lake, Ontario	50 50	20.0	N	366	18300	SL210 V SL220 H
		093 40	20.0	W			
WH2YK	White Horse, Yukon	60 41	41.0	N	853	18300	SL210 V SL220 H
		134 58	02.0	W			

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 7 JUN 75
08:46:10.0 39.100N 124.300W 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CAIC	REST	REST	REST
IAC	08 49 44.2	0.2	0.8	14.3	58.7
WH2YK	08 51 09.5	0.0	0.8	21.3	345.1
FK-CN	08 51 28.7	-0.9	-1.9	23.4	53.8
CFC	08 52 36.3	-0.4	.5	30.5	86.9
FN-WV	08 53 07.6	-0.0	0.2	34.1	78.6
HN-ME	08 54 01.1	1.2	0.5	40.4	62.8
NAC	08 57 48.0	-0.1	-0.9	72.4	21.4

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LCNG.	DEPTH (KM)	SDV	IT	STA
08:46:35.2	41.108N	123.568W	82. CAIC	0.6	4	7
08:46:21.8	40.574N	124.019W	0. REST	1.0	3	7

CAIC

0	. 1		
0	.	0	
0	1. 2	3	
.	.	.	.
0	0. 0	0	
0	.	0	
0	0 . 0		

REST

0	. 1		
0	.	0	
0	1. 2	3	
.	.	.	.
0	0. 0	0	
0	.	0	
0	0 . 0		

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONFD..LEVEL, SDV= 1.64
MAJCF 78.2KM. MINCF 33.9KM. AZ= 29 AREA= 8333 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 7 JUN 75
 08:46:10.0 39.100N 124.300W 0KM.

STA.	PHASE	ARRIVAL		INST	FEE	P/T	MAGNITUDE		DIR	DIST
		TIME					MB	MS		
IAC	M	EP	08 49 44.2	AE	0.8	155.	5.41			14.3
IAC		LR	08 55 33.0	IPZ	17.0	1516.		5.45		14.3
WH2YK		EP	08 51 09.5	SFZ	1.1	173.	5.06			21.3
WH2YK		LQ	08 56 53.0	IFT	25.0	1344.				
WH2YK		LR	09 00 23.0	IPZ	19.0	8322.		6.37		21.3
FK-CN		EP	08 51 26.7	SFZ	0.8	241.	5.38			23.4
FK-CN		LQ	08 59 42.0	IFT	21.0	3128.				
FK-CN		LR	09 01 27.0	IPZ	18.0	2422.		5.87		23.4
AIFA		LR	09 01 38.0	IPZ	23.0	89.		4.52		28.2
CFC		EP	08 52 36.3	SFZ	0.7	148.	5.52			30.5
CFC		LQ	09 03 24.0	IFT	23.0	2676.				
CFC		LR	09 05 03.0	IPZ	21.0	857.		5.54		30.5
FN-WV		EP	08 53 07.6	SFZ	0.7	16.	4.60			34.1
HN-ME		EP	08 54 01.1	SFZ	0.9	154.	5.33			40.4
HN-ME		LQ	09 08 29.0	IFT	22.0	382.				
HN-ME		E	09 10 43.0	IFB	17.0	1762.				
NAC		EP	08 57 48.0	AE	1.2	128.	5.71			72.4
NAC		LR	09 28 03.0	IPZ	23.0	282.		5.43		72.4

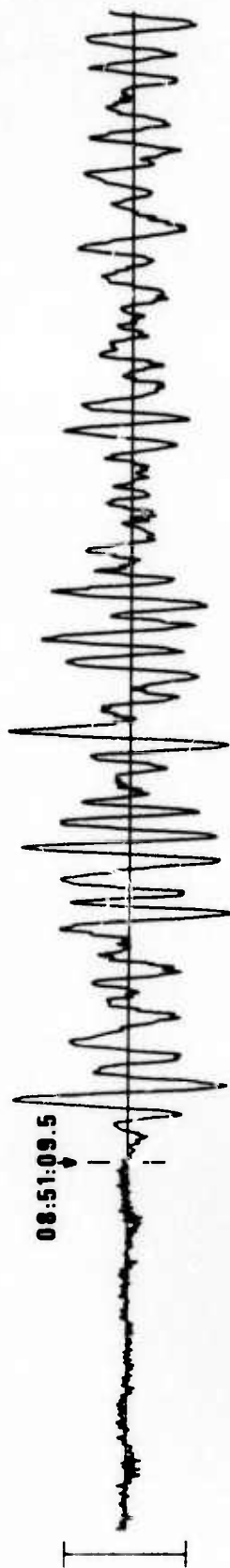
CFIGIN	IAT.	ICNG.	DEPTH (KM)	MAG	SDV	STA	IPMAG	LPSPDV	LPSTA
08:46:35.2	41.108N	123.566W	82. CAIC	5.18	0.36	6	5.52	0.6	6
08:46:21.8	40.574N	124.019W	0. REST	5.27	0.39	6	5.53	0.6	6

IAC NOT USED IN CAIC RUN SE AVG. MAG.
 IAC NOT USED IN REST RUN SE AVG. MAG.

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

WH2YK 07 JUN 75

SPZ
69.72 MHz



SPR
51.09 MHz



SPT
26.28 MHz



TIME



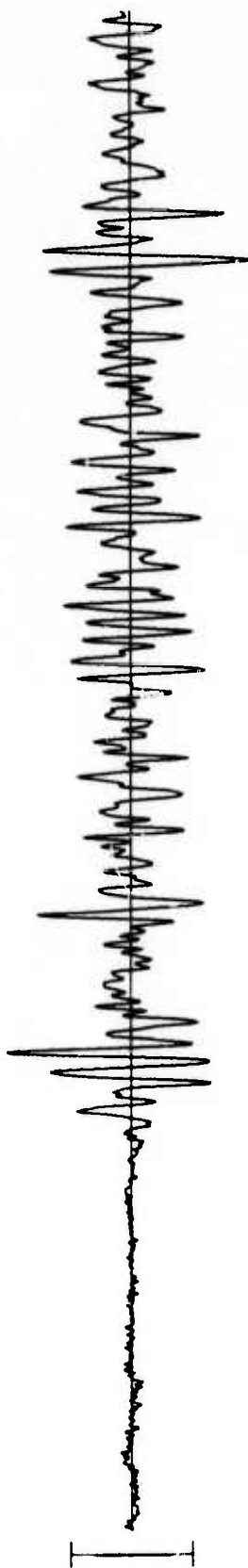
RK-ON 07 JUN 75

08:51:28.7

SPZ
207.28 MHz



SPR
111.74 MHz



SPT
68.53 MHz



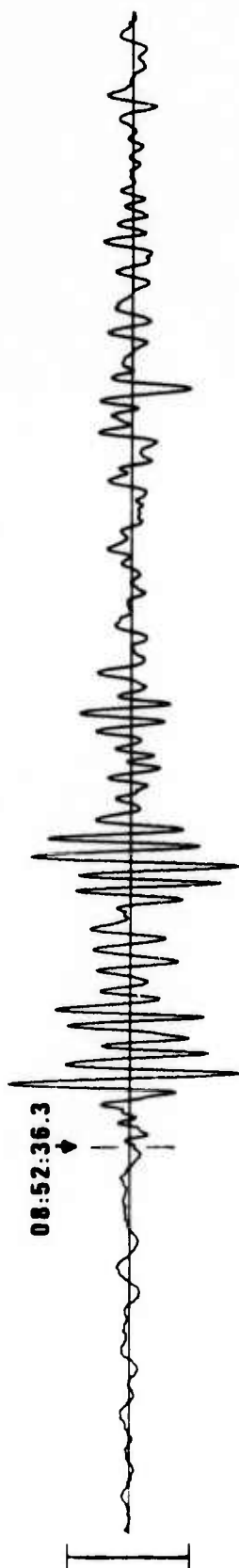
TIME

10 SEC

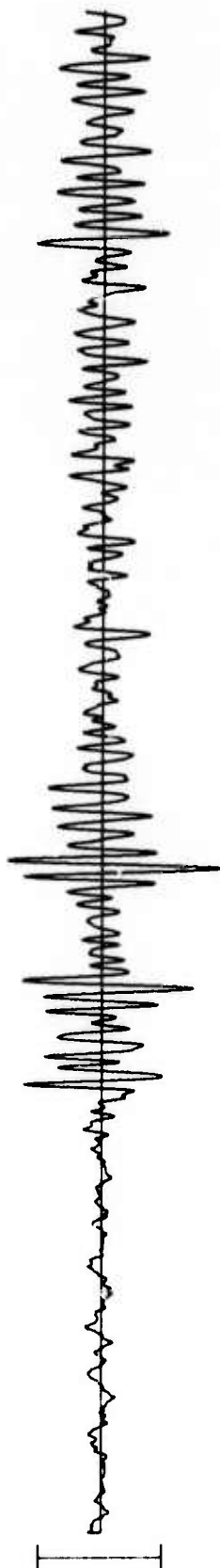
08:51:50

CPSO 07 JUN 75

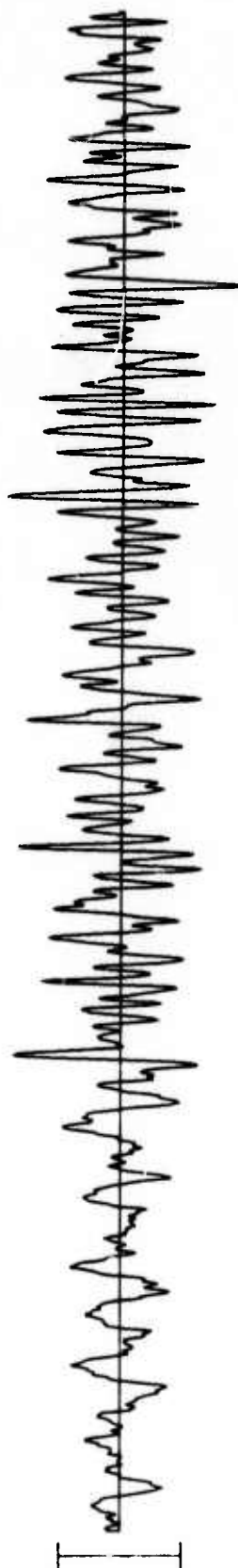
SPZ
83.26 Mμ



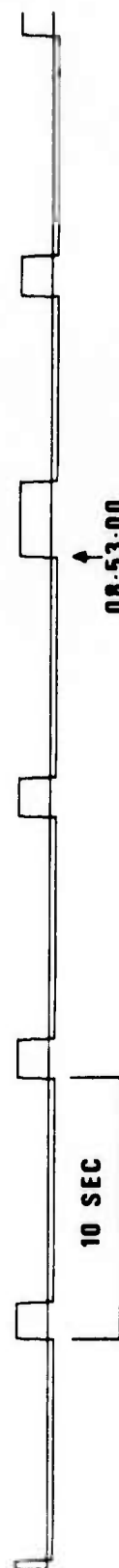
SPR
34.63 Mμ



SPT
14.42 Mμ



TIME



FN-WV 07 JUN 75

08:53:07.6



SPZ
22.77 MU



SPR
16.24 MU



SPT
12.03 MU



TIME

10 SEC

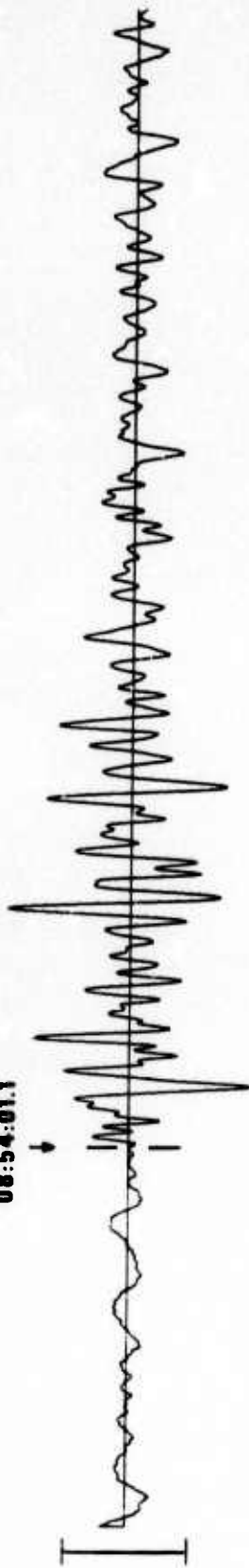
08:53:30

HN-ME 7 JUN 75

SPZ

125.93 Mu

08:54:01.1



SPR

70.54 Mu

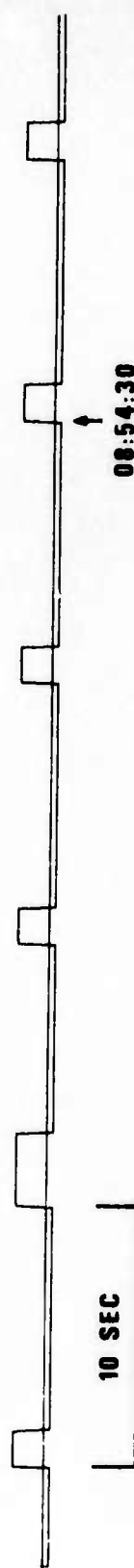


SPT

54.24 Mu



TIME



10 SEC

08:54:30

LASA

1 7 JUN 1975

2 8 46 11 39.1N 124.3W

OG 6 5.8 35 NEAR COAST OF N. CALIF.

3 8 49 44.9 LAO P

161.9 0.9 8.5 15.2 247.1

EPX 33956

BP-B 0.6-2.0 HZ

ABN 27

08:49:34.9

AB 520

FAB 450

PAB1 660

PAB2 450

PAB3 470

PAB4 480

10 SEC

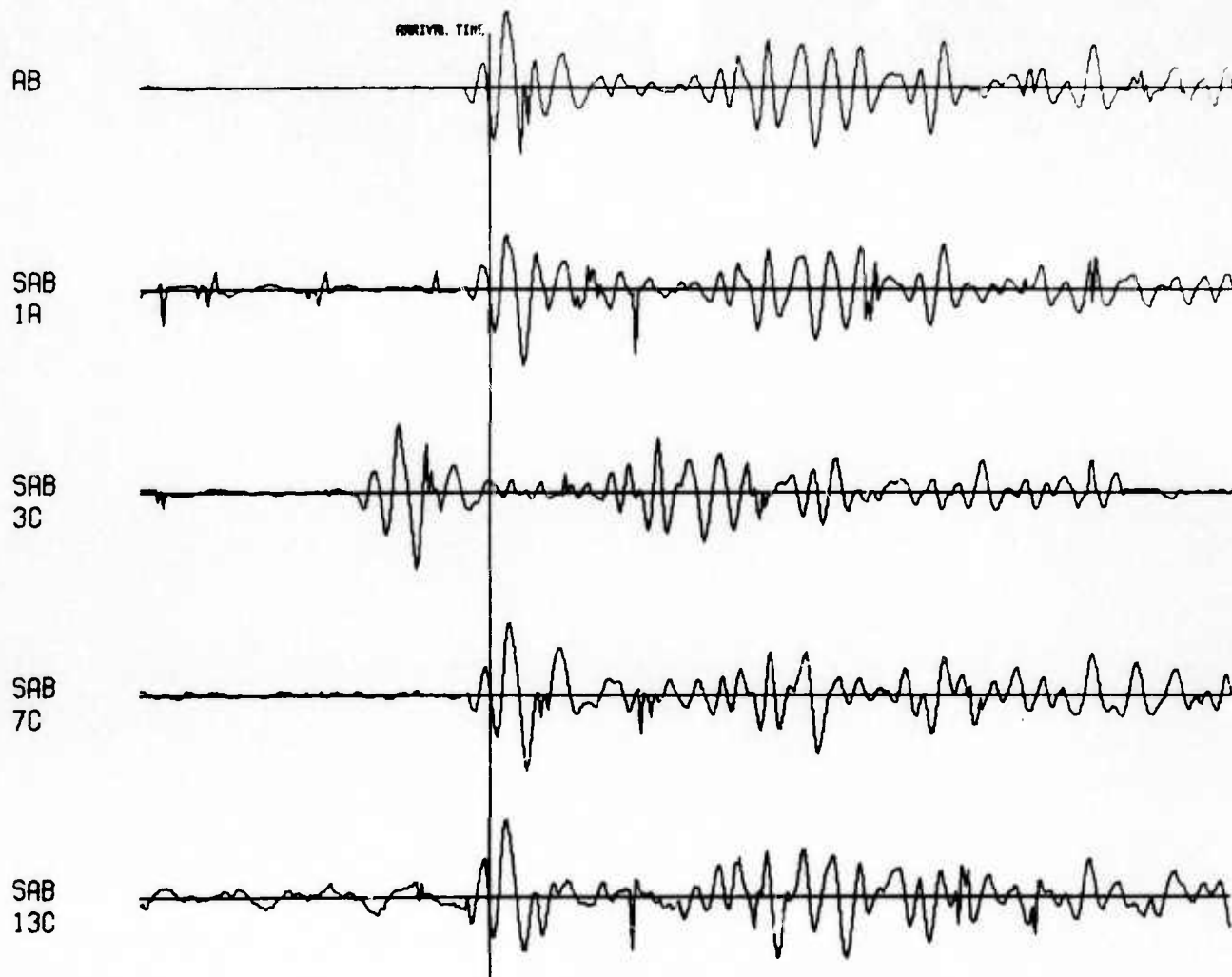
NORSAR EVENT FILE

1975 JUN 7

EPX NO. 13520 ARR. 8.57.49.1 40.2N 123.7W 5.3MB 33KM

DIST = 72.7 AZI = 325.1 AMP = 41.8 PER = 1.2 UNETH 2

SCALE  = 5 SECONDS



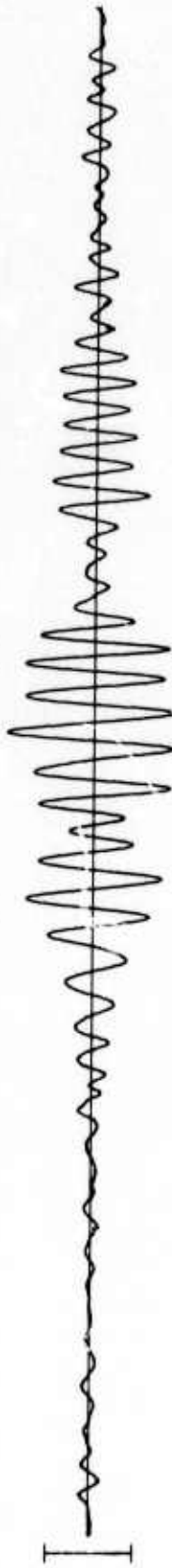
WH2YK 07 JUN 75

09:00:23

LPZ
6862.92 MHz



LPR
5414.36 MHz



08:58:53

LPT
15512.31 MHz



TIME



2 MIN

09:00:00

RK-ON 07 JUN 75

LPZ

20900.30 MP

09:01:27



LPR

13119.35 MP

08:59:42



LPT

33103.59 MP



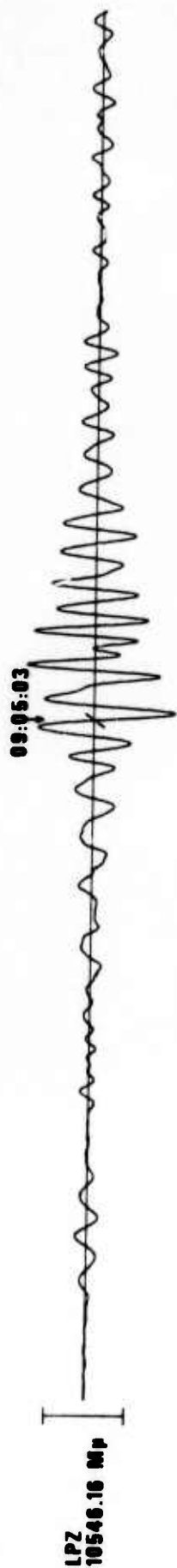
TIME



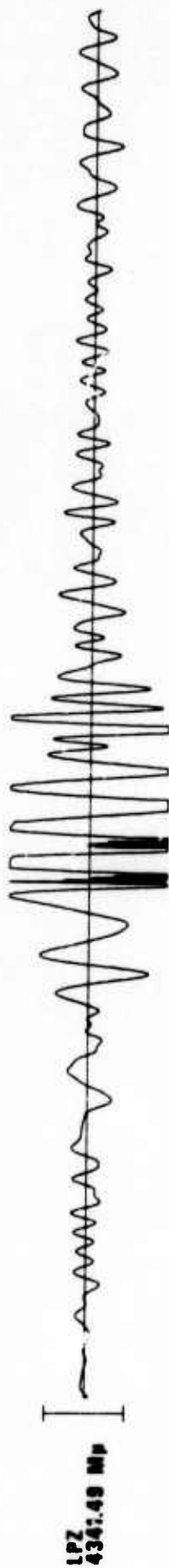
2 MIN

09:00:00

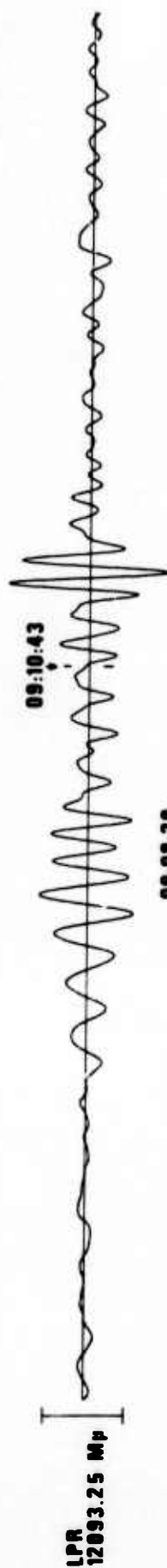
CPSO 07 JUN 75



FN-WV 07 JUN 75



HN-ME 07 JUN 75



ARRAY LONG PERIOD VERTICAL BEAMS 07 JUN 75

LASA

LP VERTICAL
26021.64 Mμ

08:55:33

08:48:41

1 MIN

ALPA

LP VERTICAL
24396.73 Mμ

09:01:38

08:54:12

1 MIN

NORSAR

LP VERTICAL
8772.51 Mμ

09:28:03

09:18:59

1 MIN