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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT - JAPAN,
04 MAY 1975

J. R. Woolson, et al

Teledyne Geotech

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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Japan, 04 May 1975

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October 1975

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SDCS Event Report No. 36

Japan, 04 May 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:

	Origin Time	Latitude	Longitude	m_b	M_s
NORSAR	09:32:05	37.8N	142.1E	5.7	N/A
LASA	09:31:55	36.8N	140.1E	5.8	N/A
PDE	09:32:00	37.1N	142.1E	5.8	5.6
Hagfors Array, Sweden	09:32:35	41.0N	134.0E	6.1	6.2

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

09:31:53.7	36.4N	141.7E	5.6	5.2
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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 channels at FN-WV were not rotated due to unknown instrument orientation.*

Long-period signals were recorded at all SDCS stations. At HN-ME the gain of the LP transverse instrument was unknown. Horizontal channels at FN-WV were not rotated due to unknown instrument orientation.* LP array beam data were unrecoverable.

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.

*Due to operational problems the instrument hole lock was repositioned and the known orientation lost. Situation corrected 24 May 75 when the instrument was moved to a new borehole.

2.

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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
GPSU	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

W.

HYPOCENTER DETERMINATION

INPUT FOR EVENT 4 MAY 75
 09:31:55.0 36.800N 140.100E 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CALC	REST		
WH2YK	09 41 32.9	0.3	0.5	55.9	36.2
NAO	09 43 36.7	-0.4	-0.0	75.1	337.5
IAC	09 43 49.1	-0.7	-0.3	77.3	40.8
RK-ON	09 44 05.1	-1.4	-1.4	80.4	31.9
HN-ME	09 45 11.2	0.4	0.3	93.6	20.2
CPO	09 45 22.5	0.0	0.0	96.6	37.0
FN-WV	09 45 24.1	0.4	0.0	96.3	31.3

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	YT	STA
NO CONVERGENCE ON CALC RUN						
09:32:17.5	37.206N	141.834E	164. CALC	0.7	16	7
09:31:53.7	36.389N	141.684E	0. REST	0.7	3	7

CALC				REST			
	1	.	1		1	.	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

CHIZ COVERAGE ELLIPSE; 95 PER CENT CCNF..LEVEL, SDV= 0.90
 MAJCF 133.4KM. MINCR 46.9KM. AZ= 5 AREA= 19649 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 4 MAY 75
 09:31:55.0 36.800N 140.100E 0KM.

STA.	PHASE	ARRIVAL		INST	PEP	A/T	MAGNITUDE		DIR	DIST
		TIME					MB	MS		
WH2YK	SP	09 41	32.9	SPZ	0.8	138.	5.64			55.9
WH2YK	LR	10 03	35.0	LPZ	20.0	89.		4.82		55.9
NAO	EP	09 43	36.7	AB	0.9	146.	5.68			75.1
IAC	EP	09 43	49.1	AB	0.8	180.	5.86			77.3
RK-ON	EP	09 44	05.1	SPZ	0.7	111.	5.49			80.4
RK-CN	LQ	10 16	13.0	LPT	27.0	31.				
RK-CN	LR	10 26	45.0	LPZ	19.0	181.		5.28		80.4
HN-ME	EP	09 45	11.2	SPZ	0.9	76.	5.72			93.6
HN-ME	LR	10 29	25.0	LPZ	21.0	135.		5.22		93.6
CFC	EP	09 45	22.5	SPZ	1.2	64.	5.80			96.0
CFC	LQ	10 16	20.0	LPT	33.0	220.				
CFC	LR	10 28	54.0	LPZ	20.0	147.		5.27		96.0
FN-WV	EP	09 45	24.1	SPZ	0.8	9.	4.98			96.3
FN-WV	LR	10 26	56.0	LPZ	23.0	116.		5.17		96.3

ORIGIN LAT. LONG. DEPTH (KM) MAG SDV STA LPMAG LPSDV LPSTA
 09:31:53.7 36.389N 141.684E 0. REST 5.60 0.30 7 5.15 0.2 5

5.

WH2YK 04 MAY 75

09:41:32.9

SPZ
244.05 MHz



SPR
QUESTIONABLE



SPT
QUESTIONABLE



TIME

10 SEC

09:41:59

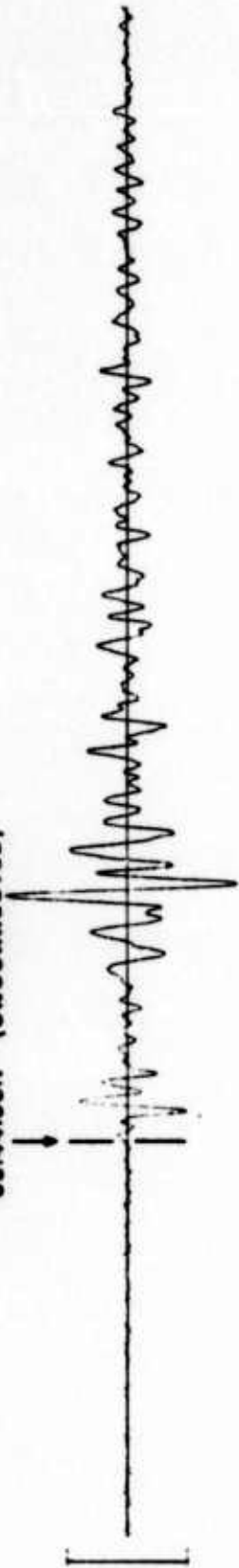


6.

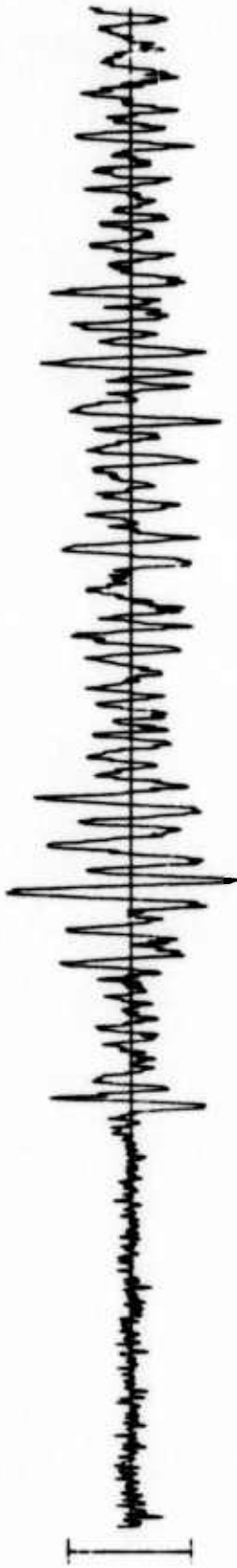
RK-ON 04 MAY 75

09:44:06.1 (UNCORRECTED)

**SPZ
191.74 MP**

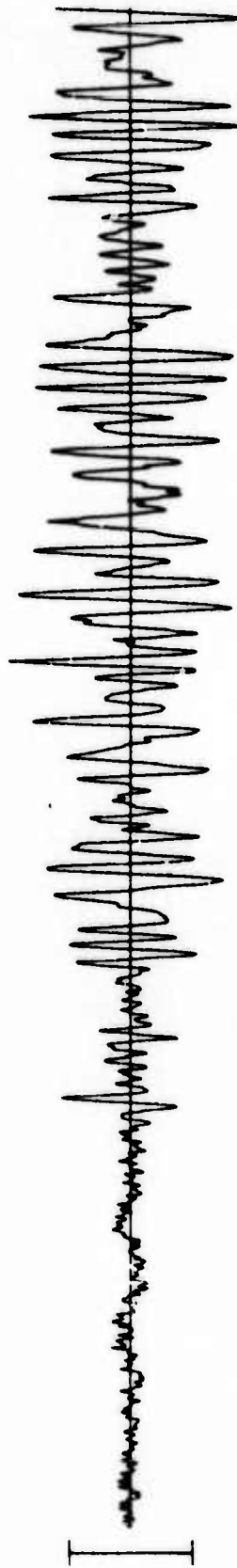


**SPR
34.00 MP**



7.

**SPT
30.40 MP**



TIME



10 SEC

09:44:20

*TIME CORRECTION -1.0 SECOND

HN-ME 04 MAY 75

SPZ
77.11 MP

09:45:11.2

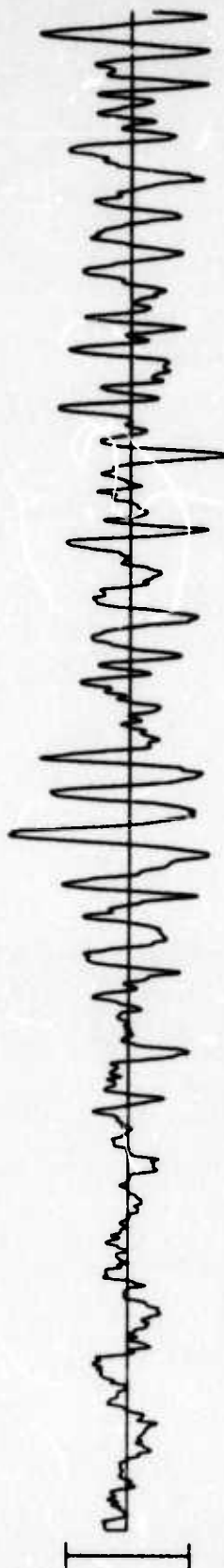


SPR
13.19 MP



∞.

SPT
16.85 MP



TIME

10 SEC

09:45:20



CP-S0 04 MAY 75

SPZ
57.81 MP

09:45:22.5

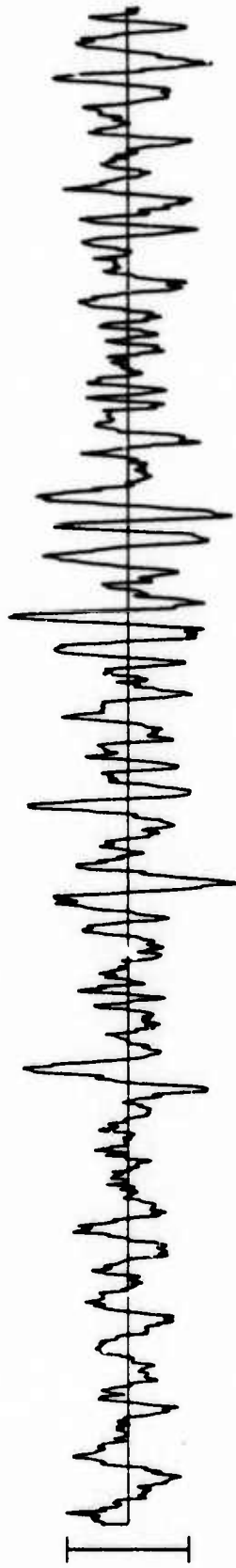


SPR
17.12 MP



9.

SPT
12.83 MP



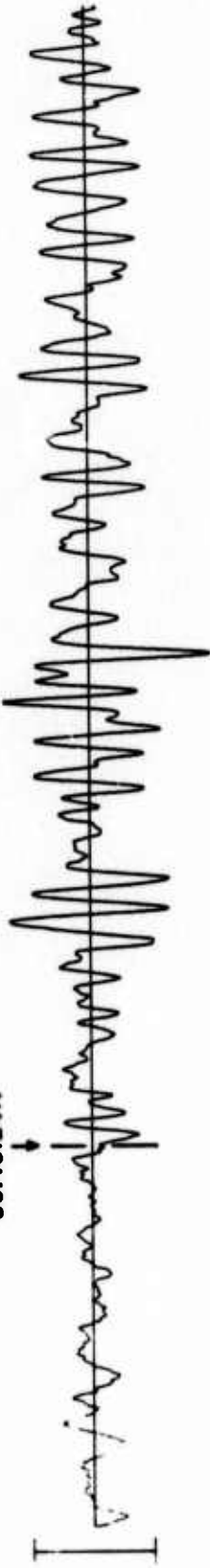
TIME



FN-WV 04 MAY 75

**SPZ
21.42 MP**

09:45:24.1



**SPR
9.00 MP**



10.

**SPT
13.02 MP**



TIME



10 SEC

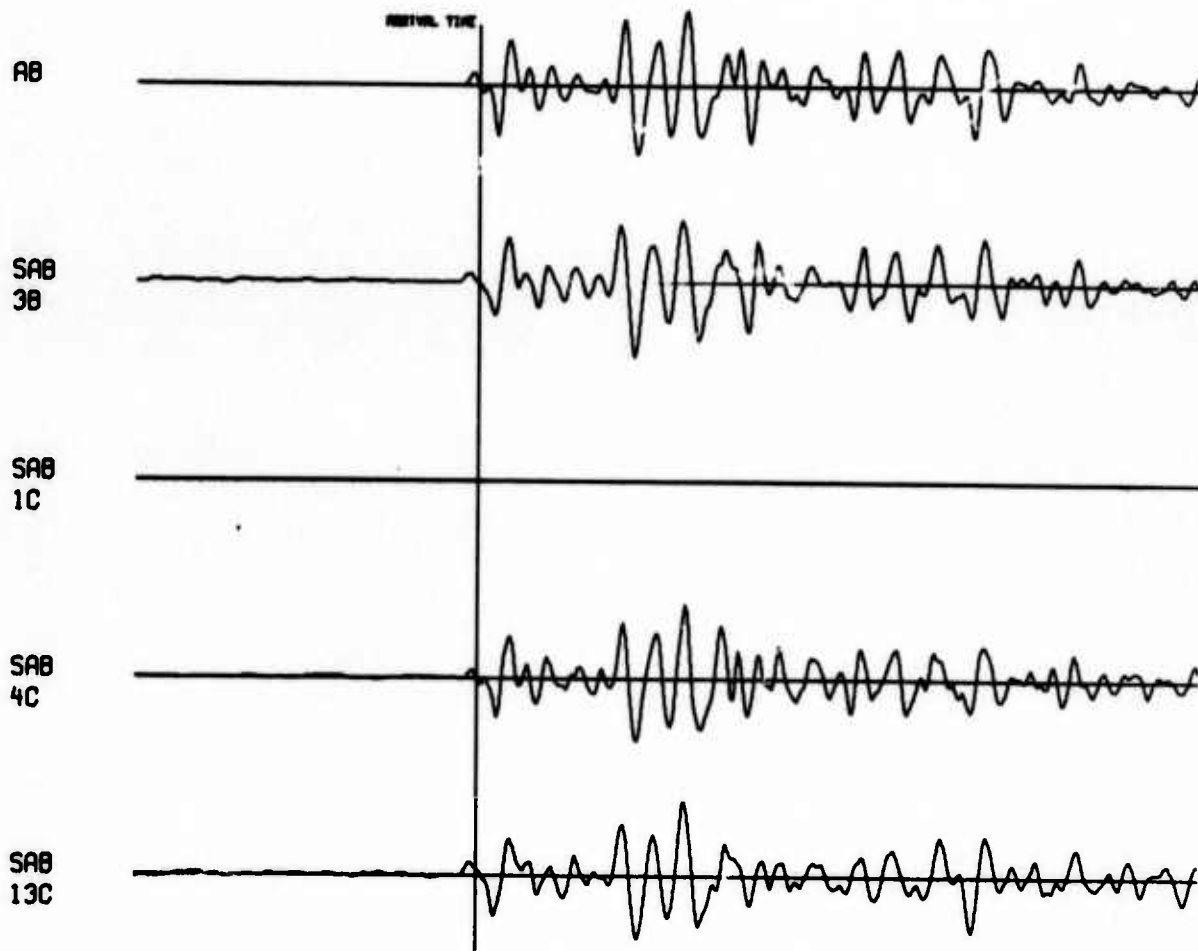
09:45:50

NORSAR EVENT FILE 1975 MAY 4

EPX NO. 27590 ARR. 9.43.37.4 37.8N 142.1E 5.6MB 33KM

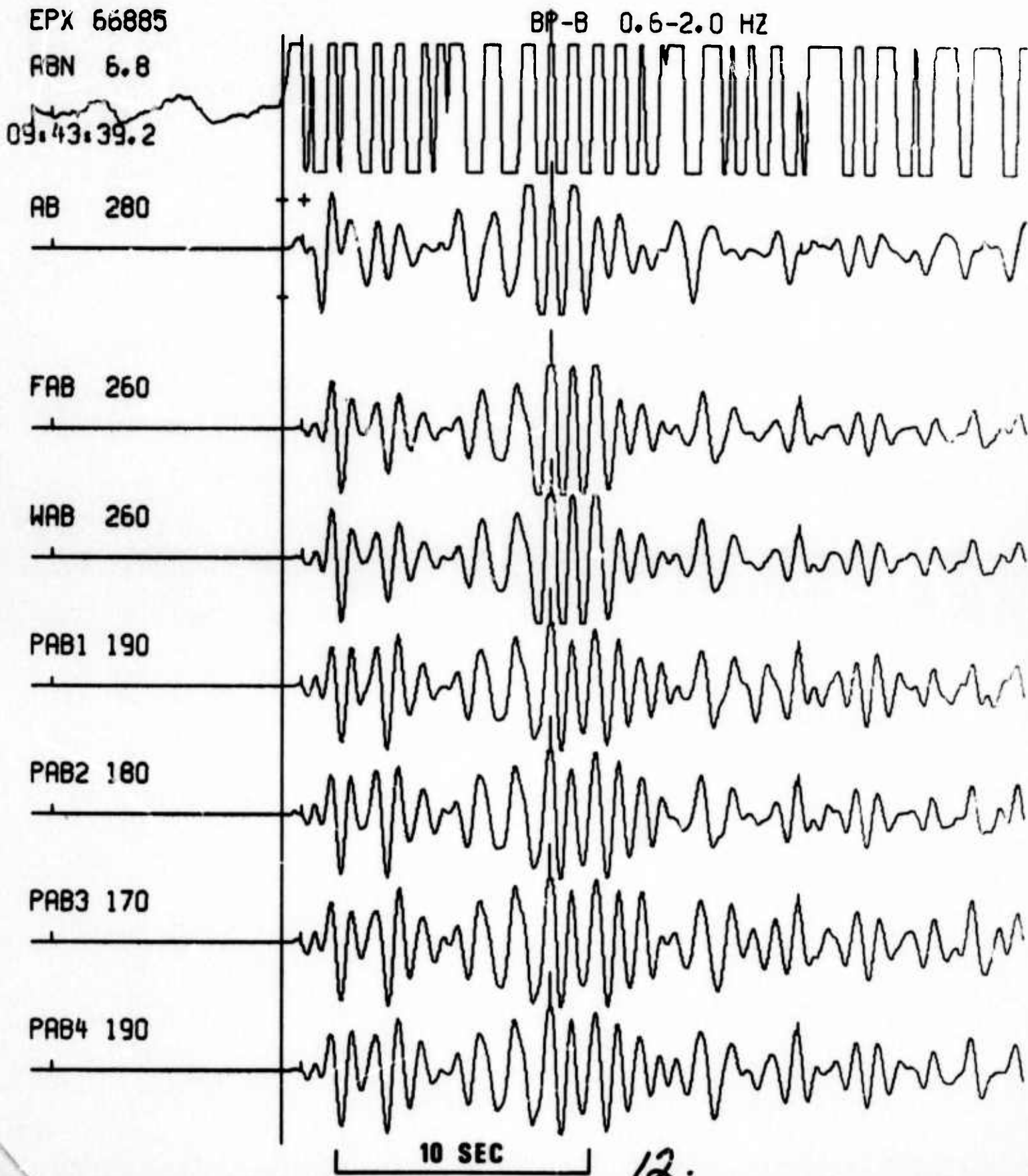
DIST = 74.0 AZI = 38.3 AMP = 56.0 PER = 0.9 UMETH 2

SCALE  = 5 SECONDS

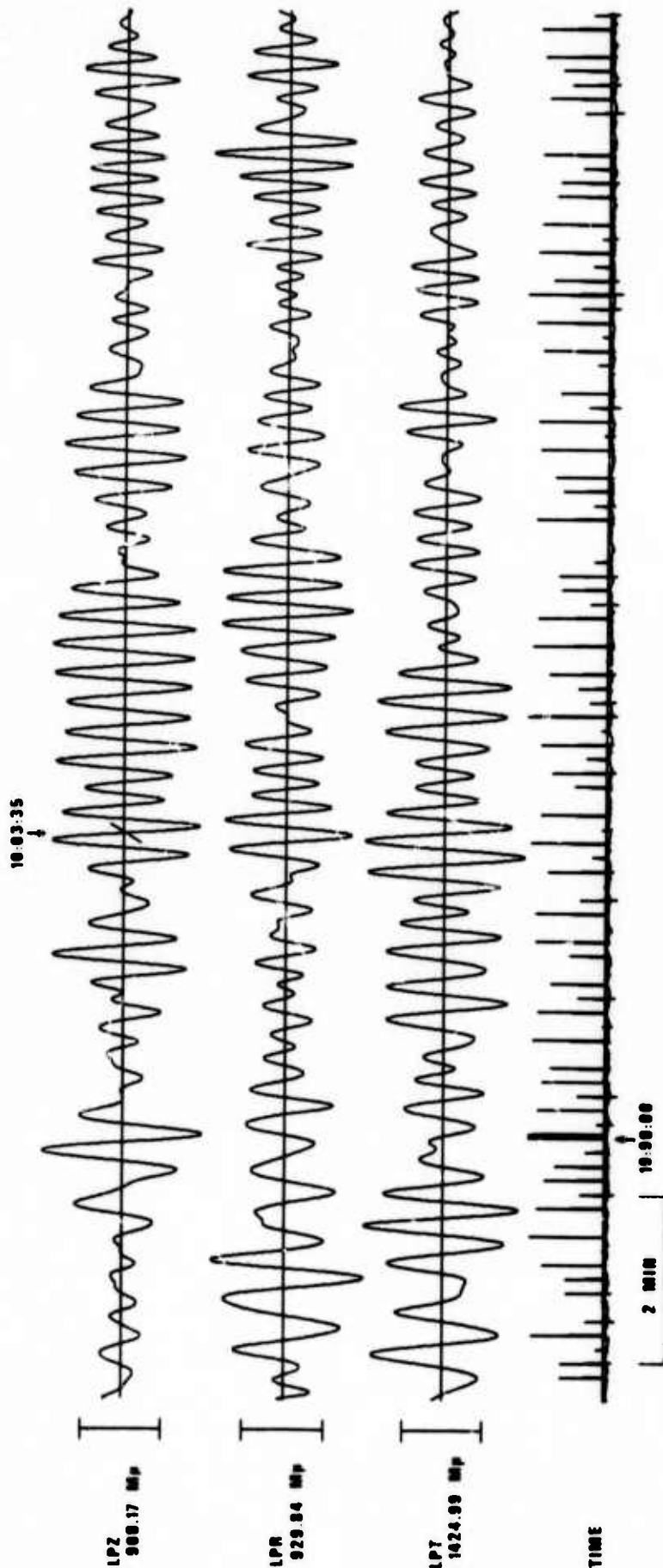


LASA

1 4 MAY 1975
2 9 31 55 36.8N 140.1E 33C C 5.8 228 NEAR E COAST HONSHU. JAPAN
3 9 43 49.2 LAO P 90.7 0.9 20.0 77.9 311.2



WH2YK 04 MAY 75



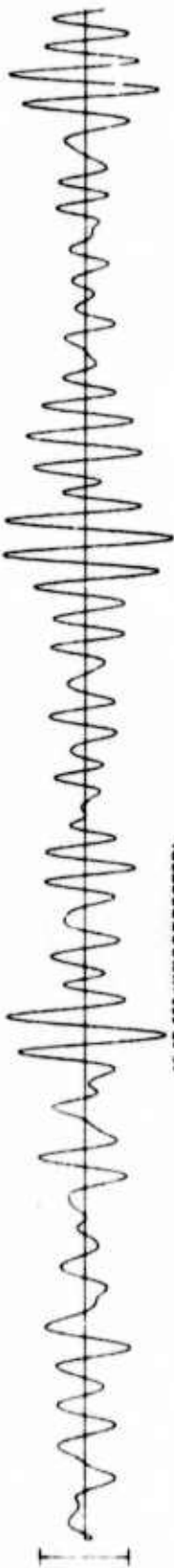
13.

RK-ON 04 MAY 75

LPT
1700.4 MP



LPR
563.9 MP



10:18:10 (UNCORRECTED)

LPT
393.6 MP



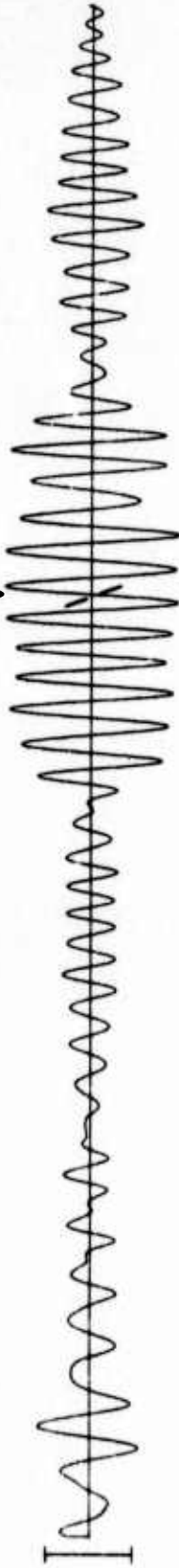
TIME



14.

HIN-ME 04 MAY 75

10:20:25



15.

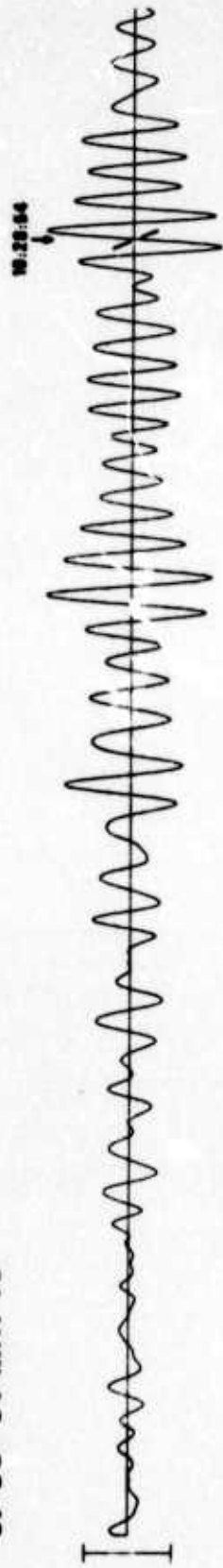


10:30:00

*CALIBRATION INVALID

CP-SO 04 MAY 75

Lpz
1045.45 MP



LPR
1250.30 MP



LPT
2000.05 MP



TIME



FN-WV 04 MAY 75

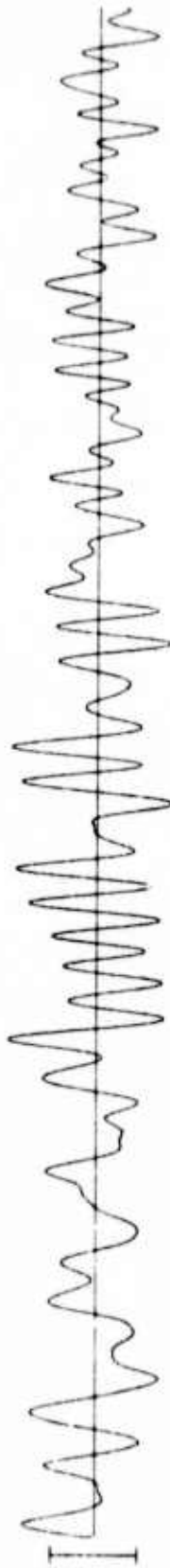
10:23:50
↓



LPZ
1373.07 MHz



LPR
1766.51 MHz



LPT
2056.20 MHz

2 MIN