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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,
NEAR COAST OF VENEZUELA, 8 JUNE 1975

K. J. Hill, et al

Teledyne Geotech

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26 January 1976

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Near Coast of Venezuela, 8 June 1975

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January 1976

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SDCS EVENT REPORT NO. 60

→ Near Coast of Venezuela, 8 June 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:

	"P" Arrival	Origin Time	Lat.	Long.	m_b	M_s
NORSAR	00:10:42.1	23:59:19	11 N	062 W	4.7	N/A
LASA	00:08:20.8	23:59:22	09.6N	062.0W	5.3	N/A
PDE		23:59:32.0	11.6N	062.1W	4.9	N/A

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

23:59:10.2 10.0N 062.4W 5.0 4.0

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at CPSO, RK-ON, FN-WV, LASA and NORSAR. WH2YK and HN-ME did not record SP signals for this event and were not included in this report. Horizontal SP channels at RK-ON and FN-WV were rotated. At CPSO the SP east channel was inoperative and therefore no horizontal channel rotation was performed.

Long-period signals were recorded at all SDCS stations, LASA and ALPA. Horizontal LP channels at all SDCS stations were rotated. Validity of the LASA and ALPA long-period vertical beams is uncertain and the horizontal channels 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	MN SECS		SHORT - PERIOD	LONG - PERIOD
ALPA	Alaska	65 14	00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinville, 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 07.0 W	853	18300	SL210 V 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 8 JUN 75
 23:59:22.0 9.600N 62.000W 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CAIC	REST		
FN-WV	00 05 40.2	0.1	0.2	32.3	334.4
CPC	00 05 48.4	-0.1	1.6	33.0	324.0
RF-CN	00 07 49.1	-0.2	-1.9	48.1	333.7
LAC	00 08 20.8	0.1	-0.3	52.1	322.8
NAC	00 10 42.1	-0.0	0.4	73.1	29.4

67 HERRIN TRAVEL TIME TABLES

	ORIGIN	LAT.	LCNG.	DEPTH (KM)	SDV	IT	STA
+	00:00:16.3	12.949N	62.866W	509. CALC	0.1	6	5
	23:59:10.2	10.047N	62.387W	0. REST	1.3	3	5

CAIC		
2	.	1
0	0.	0
0	0.	0
0	0.	0
0	0.	0

REST		
2	.	1
0	0.	0
0	0.	0
0	0.	0
0	0.	0

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 1.14
 MAJOR 206.6KM. MINOR 46.4KM. AZ= 14 AREA= 30138 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 8 JUN 75
 23:59:22.0 9.600N 62.000W OKM.

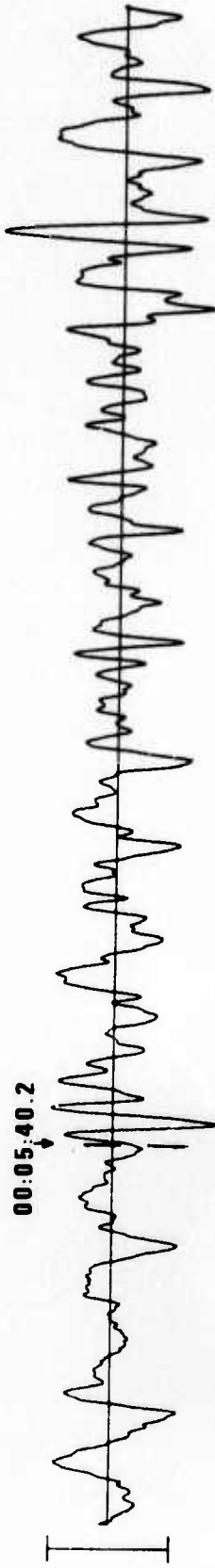
STA.	PHASE	ARRIVAL		INST	FEB	A/T	MAGNITUDE		DIR	DIST
		TIME					MB	MS		
FN-WV	EP	00 05	40.2	SPZ	1.0	25.	4.80			32.3
FN-WV	LQ	00 14	39.0	LPT	24.0	27.				
FN-WV	LR	00 17	16.0	IPZ	21.0	31.		4.12		32.3
CFC	EP	00 05	48.4	SPZ	1.0	109.	5.44			33.0
CFC	IC	00 14	39.0	IPT	24.0	60.				
FN-ME	LQ	00 15	29.0	LPT	23.0	39.				
RK-ON	EP	00 07	49.1	SPZ	0.6	26.	5.00			48.1
RK-CN	LR	00 26	48.0	IPZ	21.0	41.		4.42		48.1
IAC	EP	00 08	20.8	AE	0.9	50.	5.10			52.1
IAC	LR	00 28	33.0	IPZ	21.0	10.		3.84		52.1
WH2YK	LR	00 43	35.0	IPZ	20.0	18.		4.24		72.8
NAC	EP	00 10	42.1	AE	0.9	14.	4.73			73.1
AIFA	LR	00 45	35.0	IPZ	21.0	3.		3.49		79.0

	ORIGIN	LAT.	LCNG.	DEPTH (FM)	MAG	SDV	STA	IPMAG	LFSDV	IPSTA
+	00:00:16.3	12.949N	62.866W	509. CALC	4.52	0.33	5	4.00	0.4	5
	23:59:10.2	10.047N	62.387W	C. REST	5.01	0.28	5	4.02	0.4	5

FN-WV 09 JUN 75

SPZ
18.38 Mμ

00:05:40.2



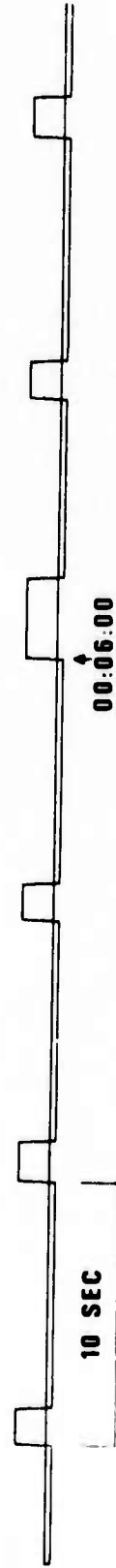
SPR
13.07 Mμ



SPT
10.27 Mμ



TIME

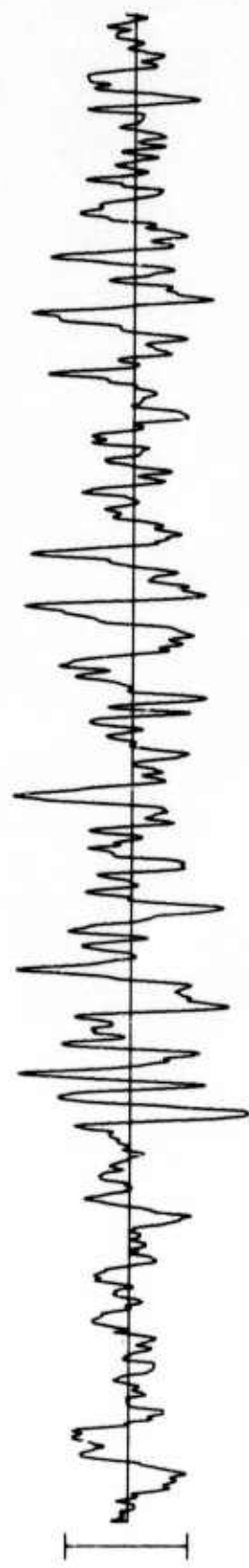


CPSO 09 JUN 75

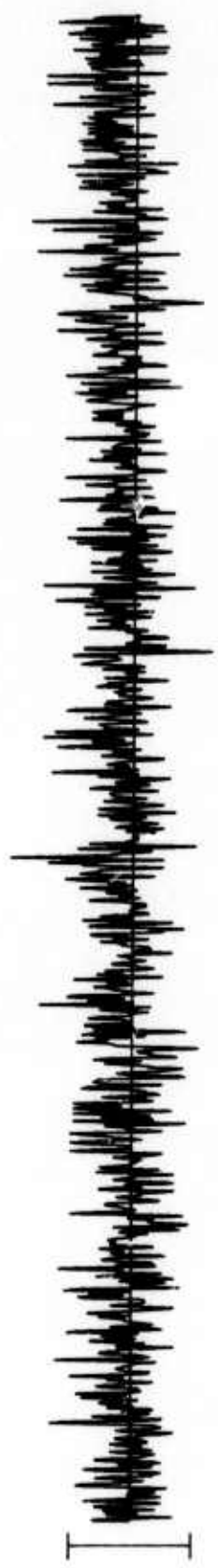
00:05:48.4



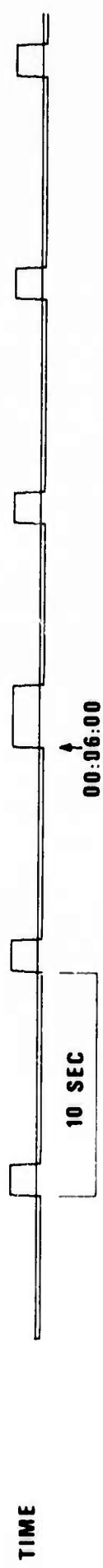
SPZ
66.39 Mμ



SPN
12.97 Mμ



SPE
INOPERATIVE



TIME

10 SEC

00:06:00

1
2

RK-ON C9 JUN 75

**SPZ
24.27 Mμ**

00:07:49.1



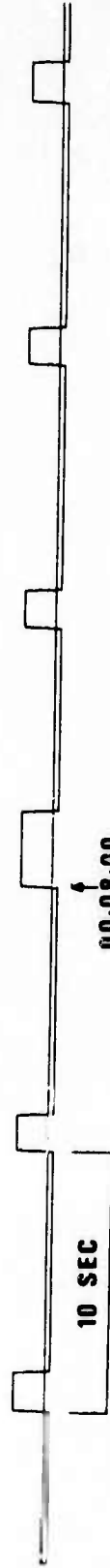
**SPR
14.59 Mμ**



**SPT
9.93 Mμ**



TIME



10 SEC

00:08:00

-7-

LASA

1 9 JUN 1975

2 23 59 23 11.3N 62.6W 33C C 5.4 95 WINDWARD ISLANDS

3 0 8 20.6 LAO P 50.2 0.9 14.8 50.9 119.4

EPX 36890

BP-B 0.6-2.0 HZ

ABN 5.3

00:08:10.6

AB 130

FAB 130

WAB 130

PAB1 140

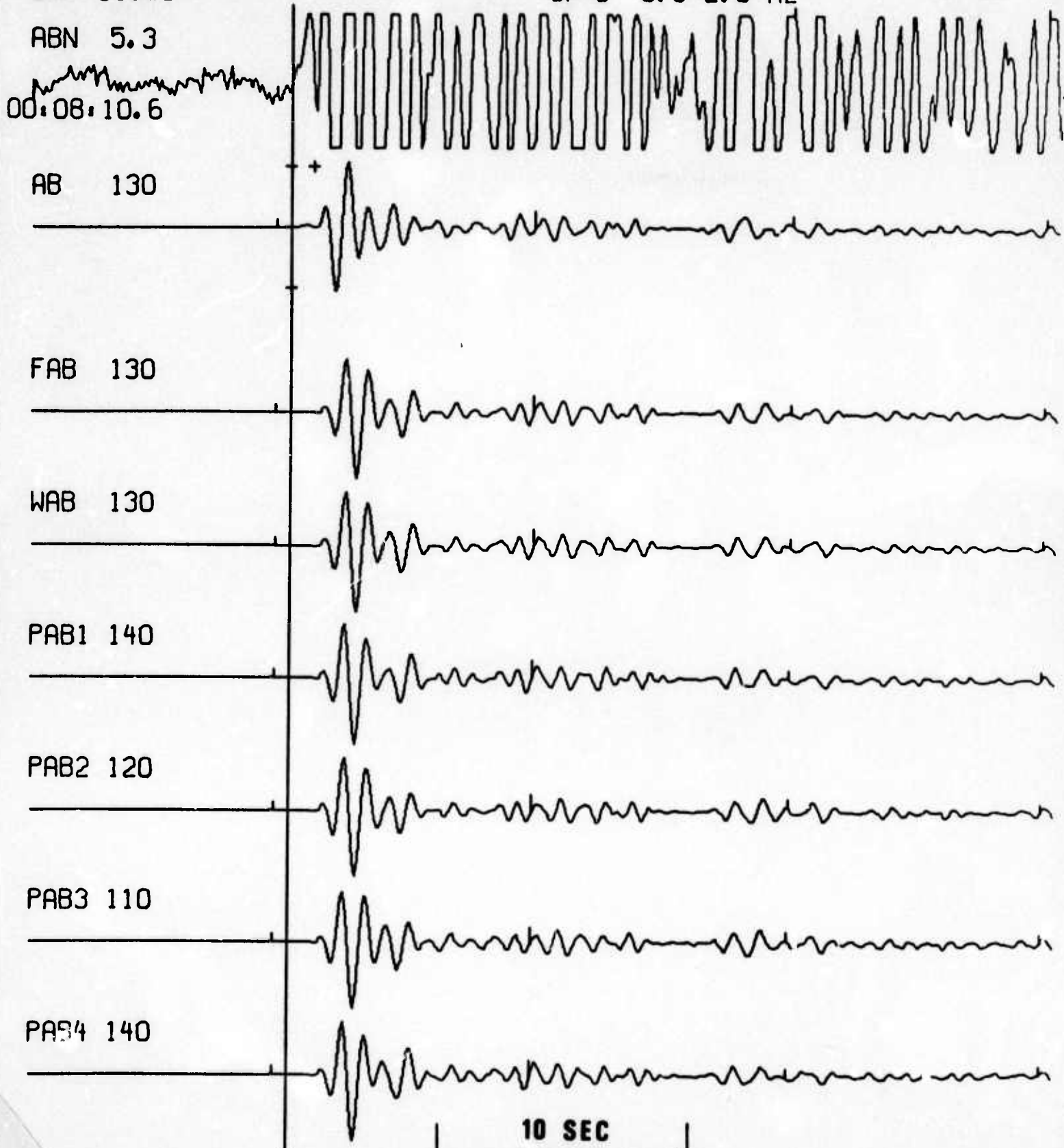
PAB2 120

PAB3 110

PAB4 140

10 SEC

- 8 -



NORSAR EVENT FILE

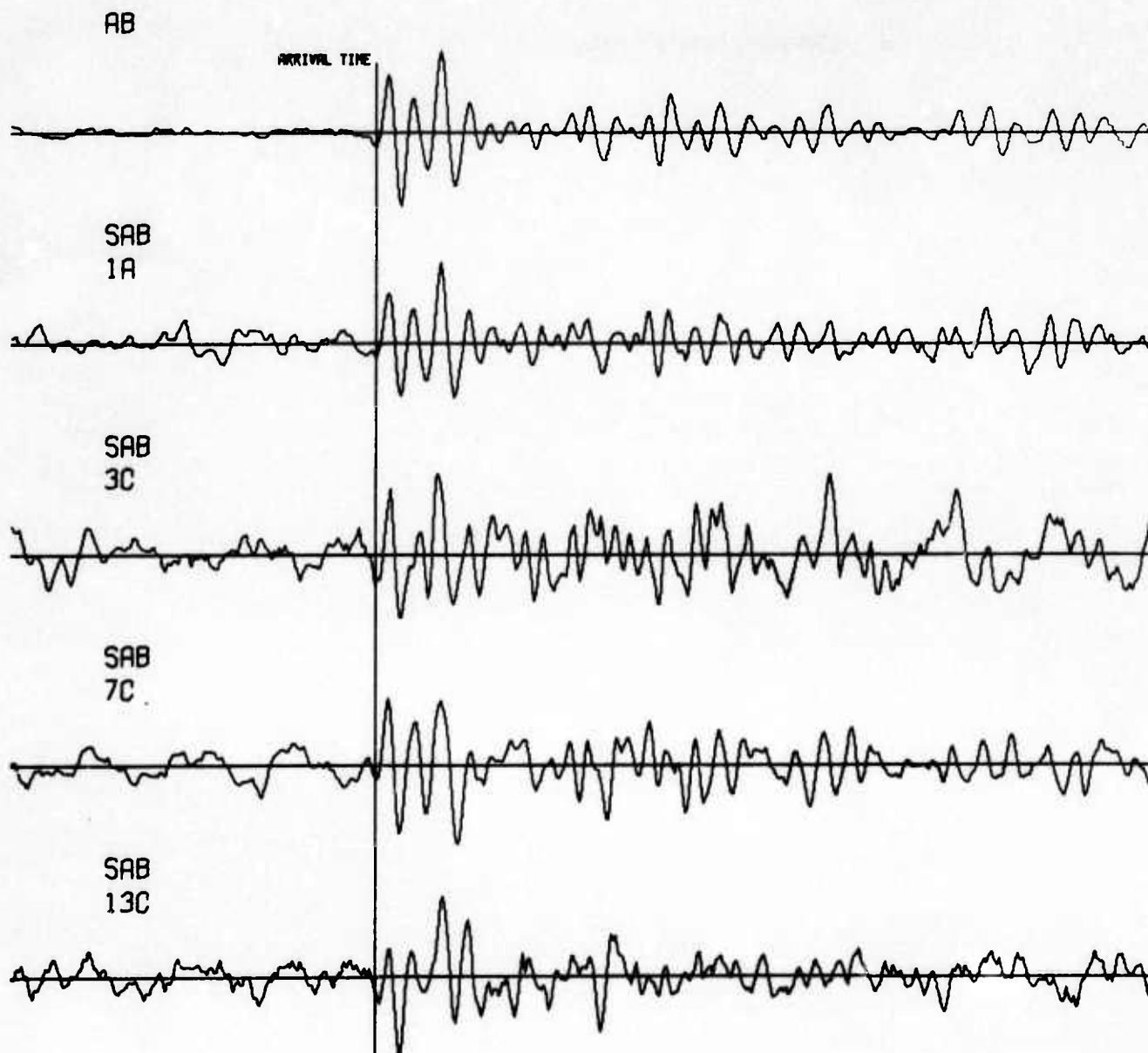
1975 JUN 9

EPX NO. 18710 ARR. 00.10.42.3

4.7MB 33KM

DIST = 72.5 AZI = 260.1 AMP = 8.5 PER = 1.0

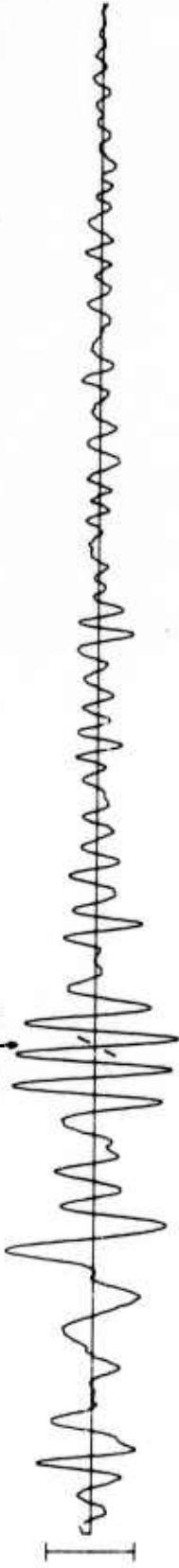
—|—| = 5 SECONDS



FN-WV 09 JUN 75

LPZ
326.81 MHz

00:17:16

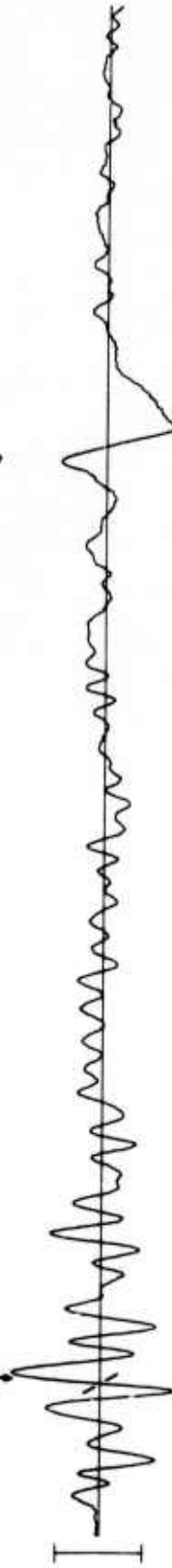


LPR
394.74 MHz

00:14:39



LPT
347.03 MHz



TIME

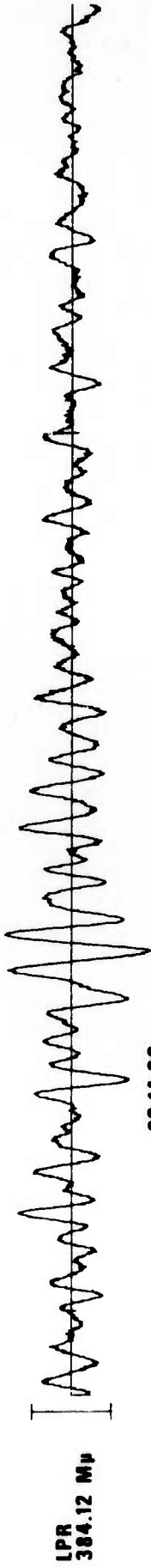
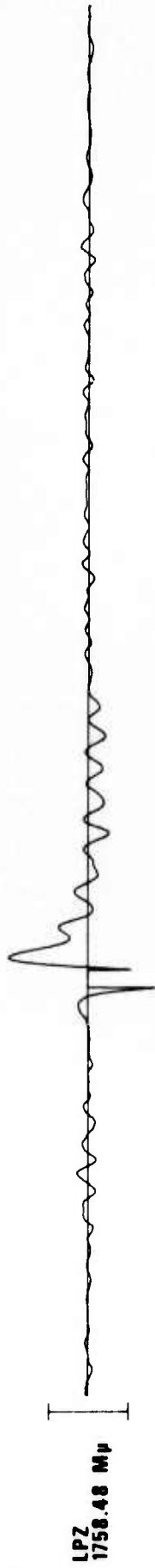


2 MIN

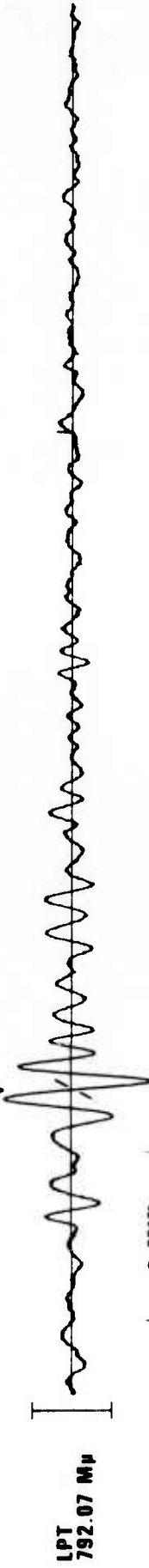
00:20:00

01-

CPSO 09 JUN 75



00:14:39

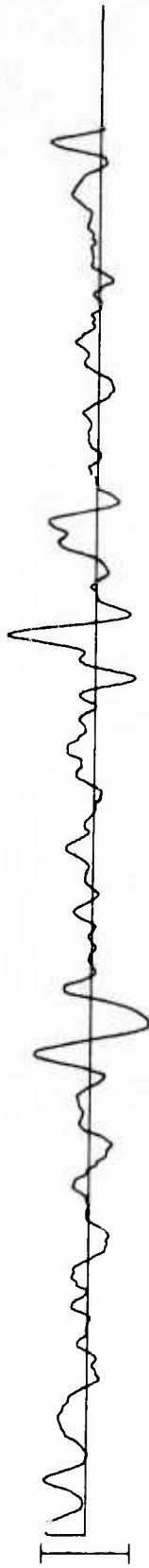


2 MIN

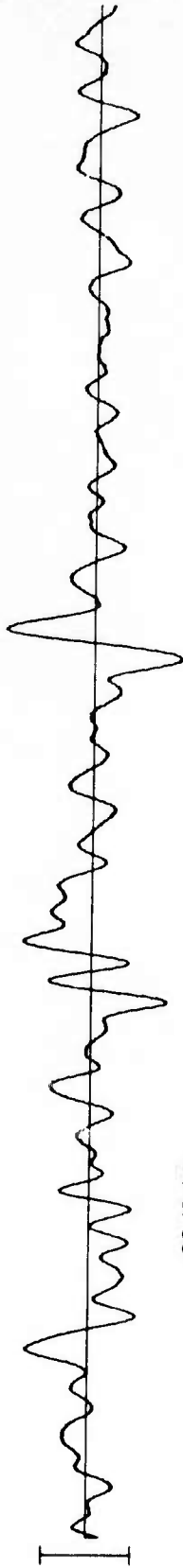
//

HN-ME 09 JUN 75

LPZ
997.55 MHz

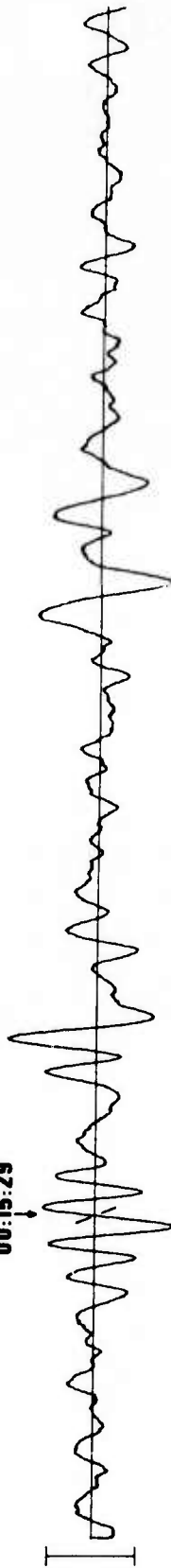


LPR
545.05 MHz

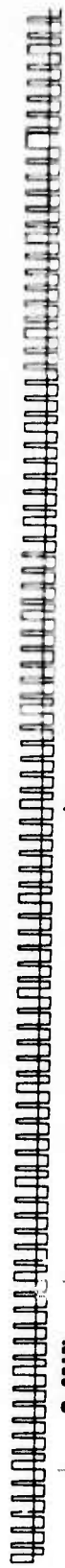


00:15:29

LPT
616.20 MHz



TIME



2 MIN

00:20:00

RK-ON 09 JUN 75

00:26:48

LPT
467.45 M μ



LPR
1712.11 M μ



LPT
1349.39 M μ



2 MIN

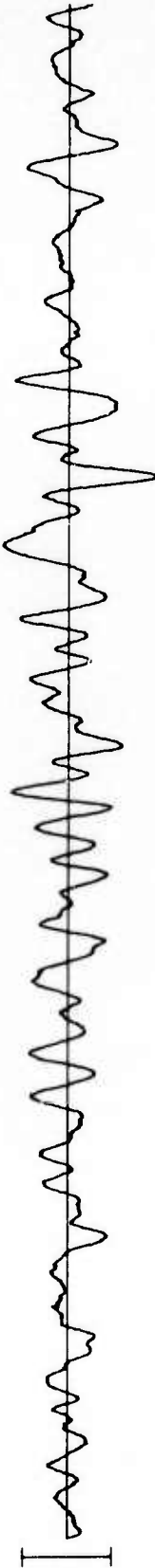
WH2YK 09 JUN 75

00:43:35

LPT
187.04 MHz



LPR
441.63 MHz



LPT
492.29 MHz



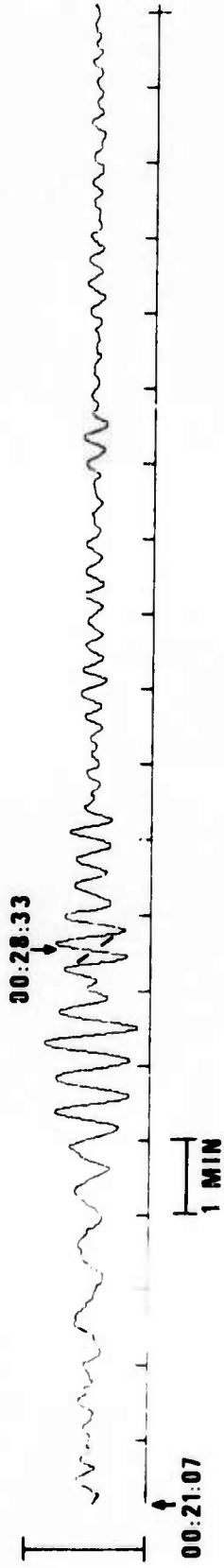
2 MIN

-14-

ARRAY LONG PERIOD VERTICAL BEAMS 09 JUN 75

LASA

LP VERTICAL
337.85 MHz



ALPA

LP VERTICAL
87.90 MHz

