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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,  
NORTH ATLANTIC OCEAN, 26 MAY 1975

K. J. Hill, et al

Teledyne Geotech

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21 January 1976

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North Atlantic Ocean, 26 May 1975**

**K.J. Hill, M.S. Dawkins, R.R. Baumstark, and M.D. Gillespie  
Alexandria Laboratories  
Teledyne Geotech, 314 Montgomery Street, Alexandria, Virginia 22314**

January 1976

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SDCS EVENT REPORT NO. 59

North Atlantic Ocean, 26 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:

	"P" Arrival	Origin Time	Lat.	Long.	$m_b$	$M_s$
NORSAR	09:18:06.1	09:12:53	36 N	018 W	6.3	N/A
LASA	09:22:23.3	09:11:34	32.2N	016.7W	6.8	N/A
IDE		09:11:50.9	35.8N	017.6W	N/A	8.0

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

09:11:54.5 36.8N 018.1W 6.4 N/A

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 HN-ME and RK-ON were rotated. Signal clipping prevented rotation of the SP horizontal channels at WH2YK, FN-WV and CPSO.

Long-period signals were recorded at all SDCS stations and NORSAR. Signal clipping prevented rotation of horizontal LP channels at all SDCS stations. Validity of the NORSAR long-period vertical beam is uncertain and horizontal channels were not included because of program recovery problems. ALPA and LASA long-period array data were not recoverable.

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	NN SECS		SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65 14	00.0 N 147 44 36.0 W	626	None	31300
CPSO	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	855	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 26 MAY 75  
 09:11:34.0 32.199N 16.70W 0FM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CAIC	FEST		
NAC	09 18 06.1	-0.0	0.1	30.2	28.1
HN-ME	09 19 13.0	-0.1	0.0	38.0	300.3
FN-WV	09 20 33.4	0.4	0.4	47.8	291.7
CFC	09 21 14.7	-0.3	-0.3	53.4	290.3
RK-CN*	09 22 14.5	55.5 *	55.4 *	54.0	310.6
IAC	09 22 23.3	-0.1	-0.2	63.2	309.6
WH2YK	09 23 07.3	0.1	-0.1	70.1	332.2

67 HERRIN TRAVEL TIME TABLES

ORIGIN	IAT.	LCNG.	DEPTH (KM)	SDV	IT	STA
09:11:58.0	36.795N	18.142W	23. CAIC	0.2	5	6
09:11:54.5	36.780N	18.145W	0. FEST	0.2	4	6

CAIC			FEST		
1	.	1	1	.	1
2	.	0	2	.	0
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 CONFD. LEVEL, SDV= 1.11  
 MAJOR 223.3KM. MINOR 28.1KM. AZ= 157 AREA= 19740 SQ.KM. FEST

\* RK-ON NOT USED IN HYPOCENTER DETERMINATION DUE TO APPROXIMATE TIME CORRECTION OF 27 MINUTES 30 SECONDS.

DATA SUMMARY

INPUT FOR EVENT      26 MAY 75  
 09:11:34.0      32.199N      16.700W      0KM.

STA.	PHASE	ARRIVAL		INST	PER	A/T	MAGNITUDE		DIP	DIST
		TIME					MB	MS		
NAC	EP	09 18	06.1	AE	0.8	696.	6.17			30.2
RN-ME	EP	09 19	13.0	SPZ	0.9	1310.	6.32			38.0
FN-WV	EP	09 20	33.4	SPZ	1.7	9999.				
CPO	EP	09 21	14.7	SPZ	1.7	9999.				
RK-CN*	EP	09 22	14.5	SFZ	1.9	4250.	7.13			54.0
IAC	EP	09 22	23.3	AE	1.1	1341.	6.75			63.2
WH2YK	EP	09 23	07.3	SFZ	0.6	9999.				

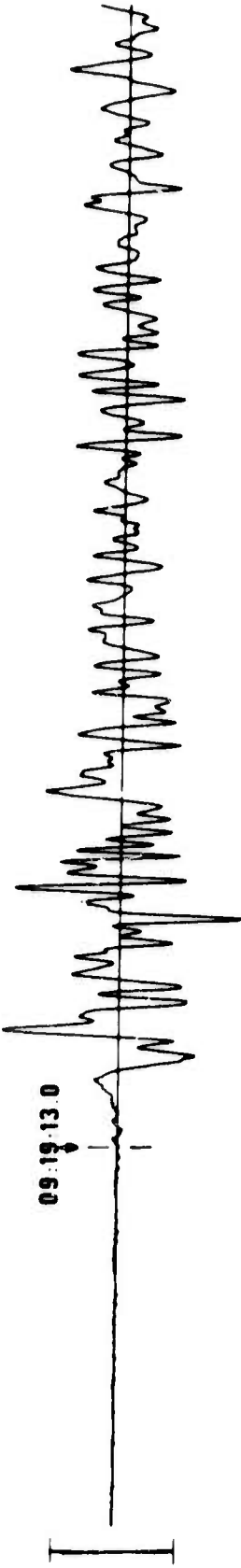
ORIGIN	IAT.	LCNG.	DEPTH (KM)	MAG	SDV	STA
09:11:58.0	36.795N	18.142W	23. CALC	6.40	0.28	3
09:11:54.5	36.780N	18.145W	0. REST	6.41	0.30	3

\*RK-ON NOT USED IN HYPOCENTER DETERMINATION DUE TO APPROXIMATE TIME CORRECTION OF 27 MINUTES 30 SECONDS.



**HN-ME 26 MAY 75**

**SPZ**  
1136.69 MHz



**SPR**  
836.59 MHz

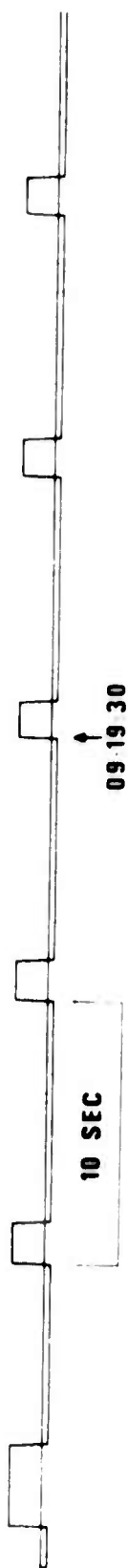


**σ**

**SPT**  
340.25 MHz



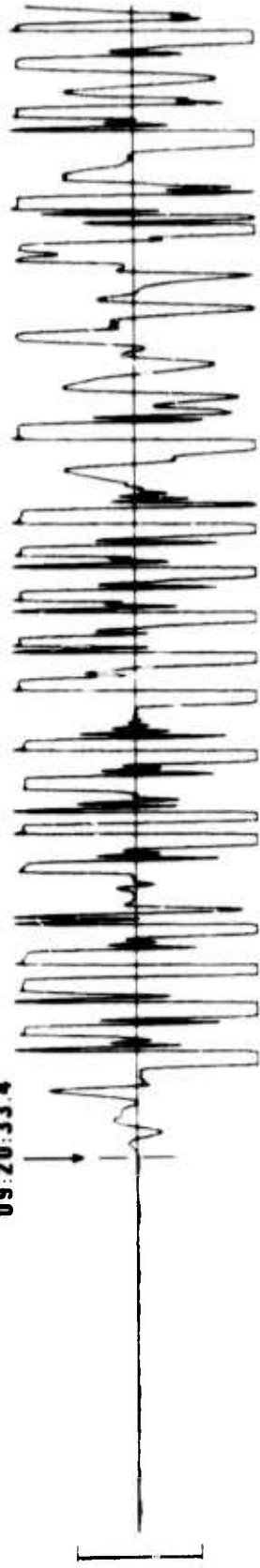
**TIME**



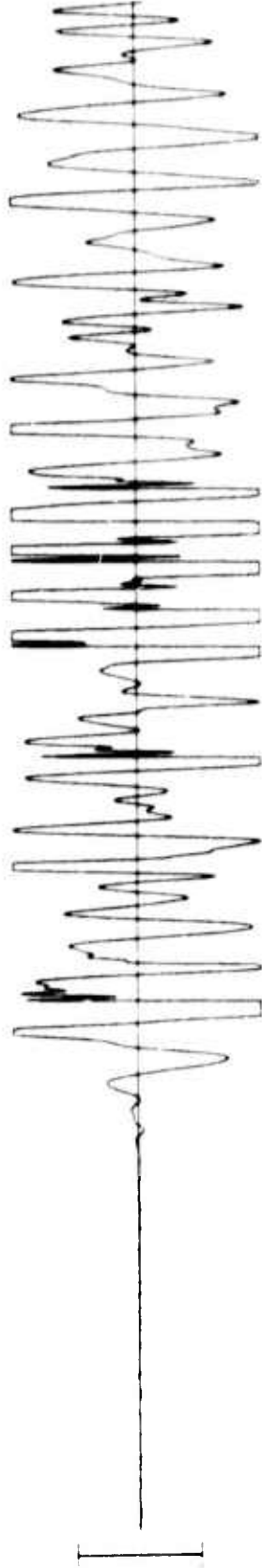
**FN-WV 26 MAY 75**

09:20:33.4

SPZ  
460.17 Mu

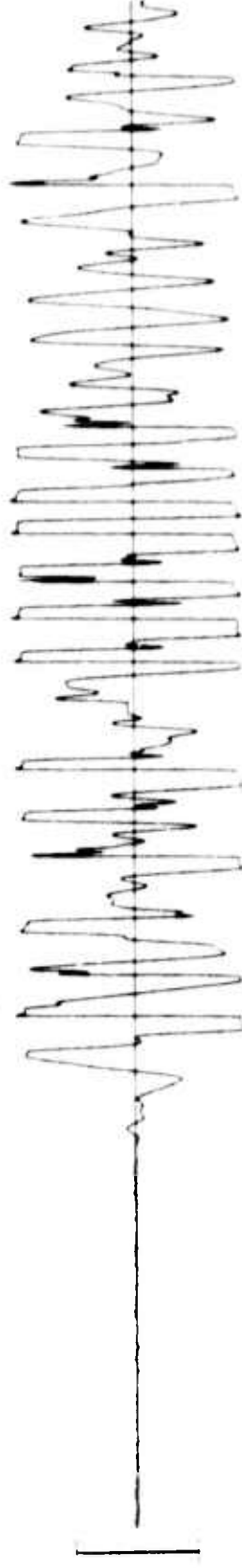


SPR  
471.799 Mu



SPR

599.63 Mu



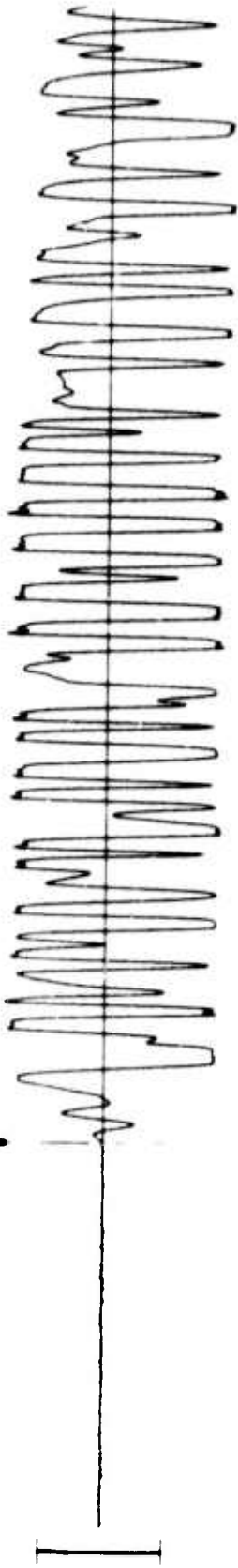
10 SEC



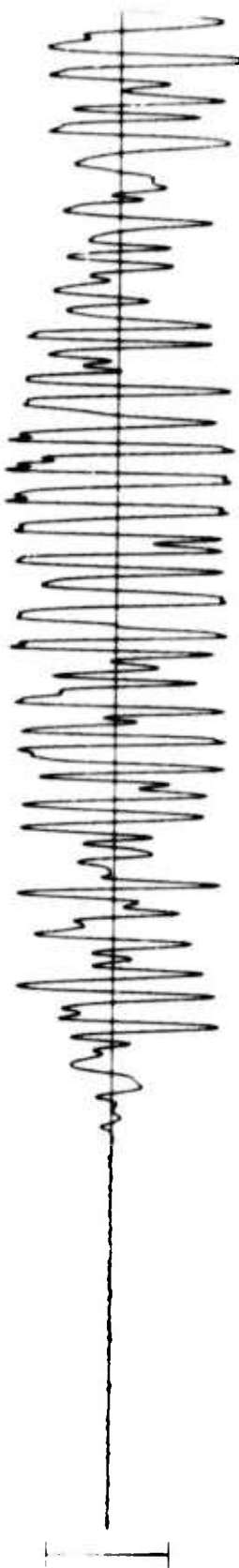
**CPSO 26 MAY 75**

09:21:14.7

SPZ  
940 20 M $\mu$

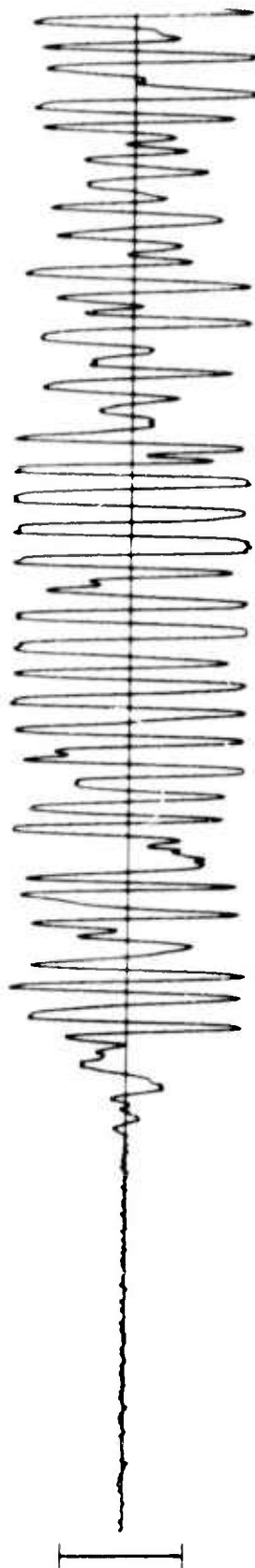


SPN  
455 35 M $\mu$

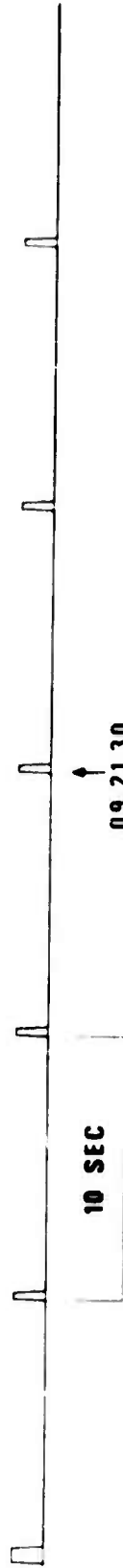


$\infty$

SPE  
416 26 M $\mu$



TIME

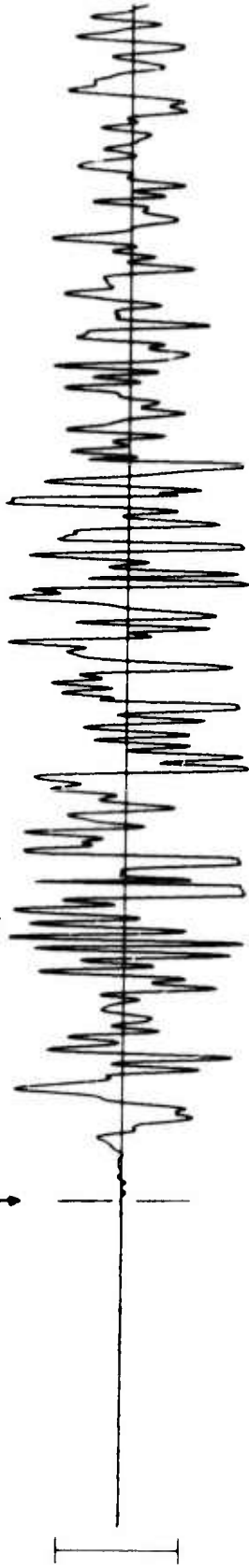


09 21 30

# RK-ON 26 MAY 75

08:54:44.5 (UNCORRECTED)

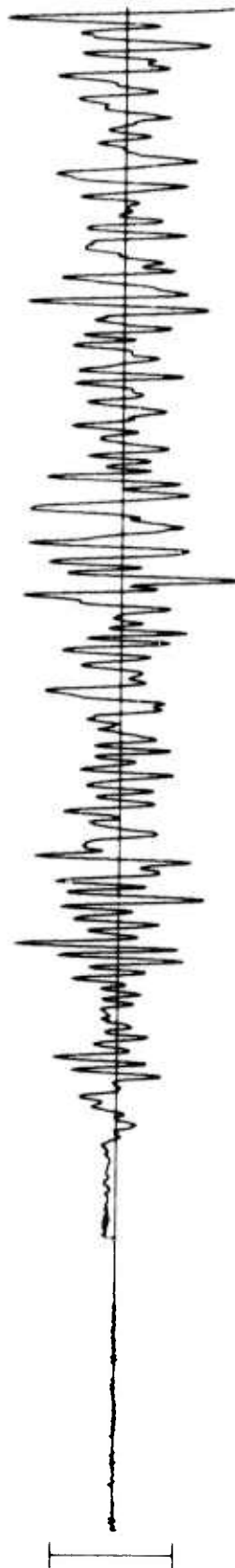
SPZ  
931.45 Mμ



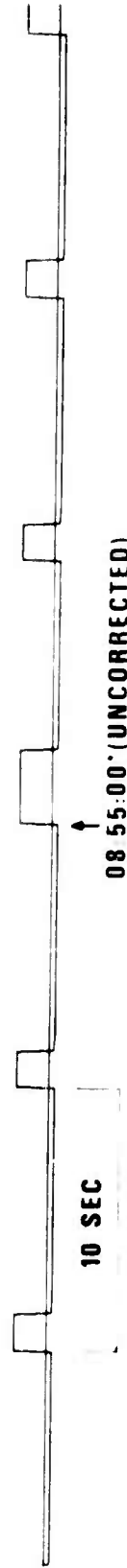
SPR  
762.47 Mμ



SPT  
596.78 Mμ



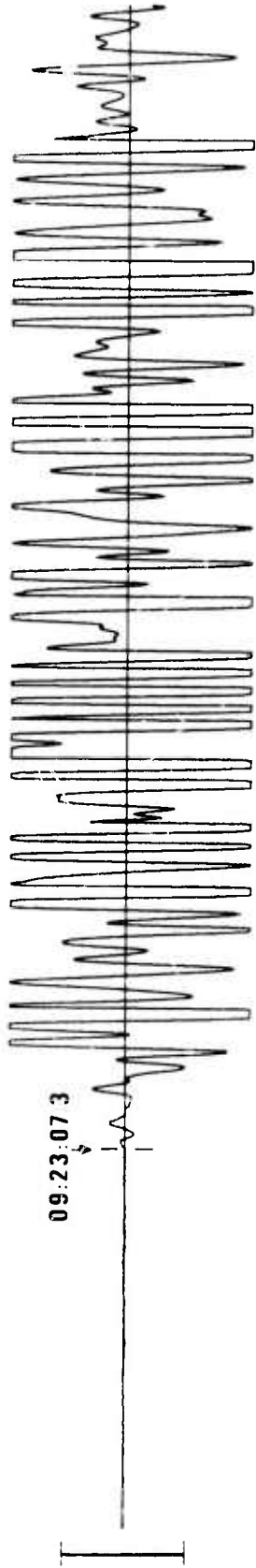
TIME



\*APPROXIMATE TIME CORRECTION +27 MINUTES 30 SECONDS

WH2YK 26 MAY 75

SPZ  
783.65 M $\mu$



SPR  
506.27 M $\mu$

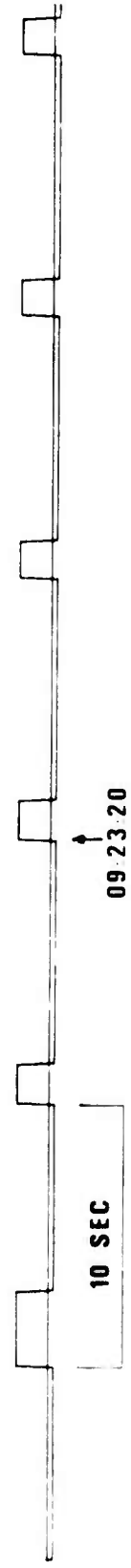


10

SPT  
901.64 M $\mu$



TIME



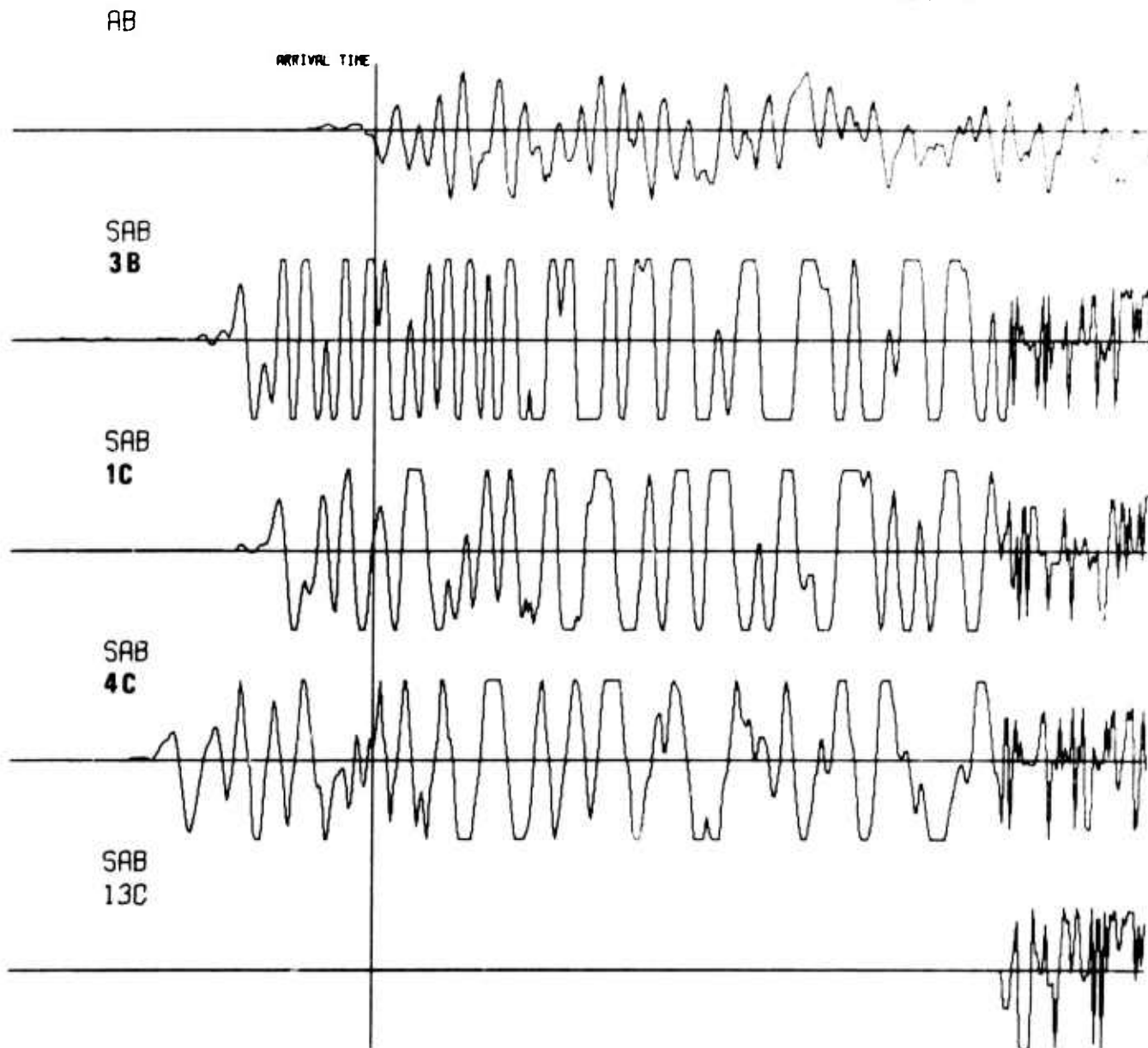
NORSAR EVENT FILE

1975 MAY 26

EPX NO. 68210 ARR. 9.18.7.1 48.2N 32.8W 5.3MB 33KM

DIST = 27.7 AZI = 262.7 AMP = 37.2 FER = 0.8

—————+————— = 5 SECONDS



LASA

1. 26 MAY 1975

2 9 11 45 32.5N 19.2W 330 C 6.2 393 MADEIRA ISLANDS REGION

3 9 22 23.3 LAO P 493.6 1.5 17.1 65.3 68.3

EPX 9271

ABN 34

09:22:13.3

BP-B 0.6-2.0 HZ

AB 2420

FAB 1700

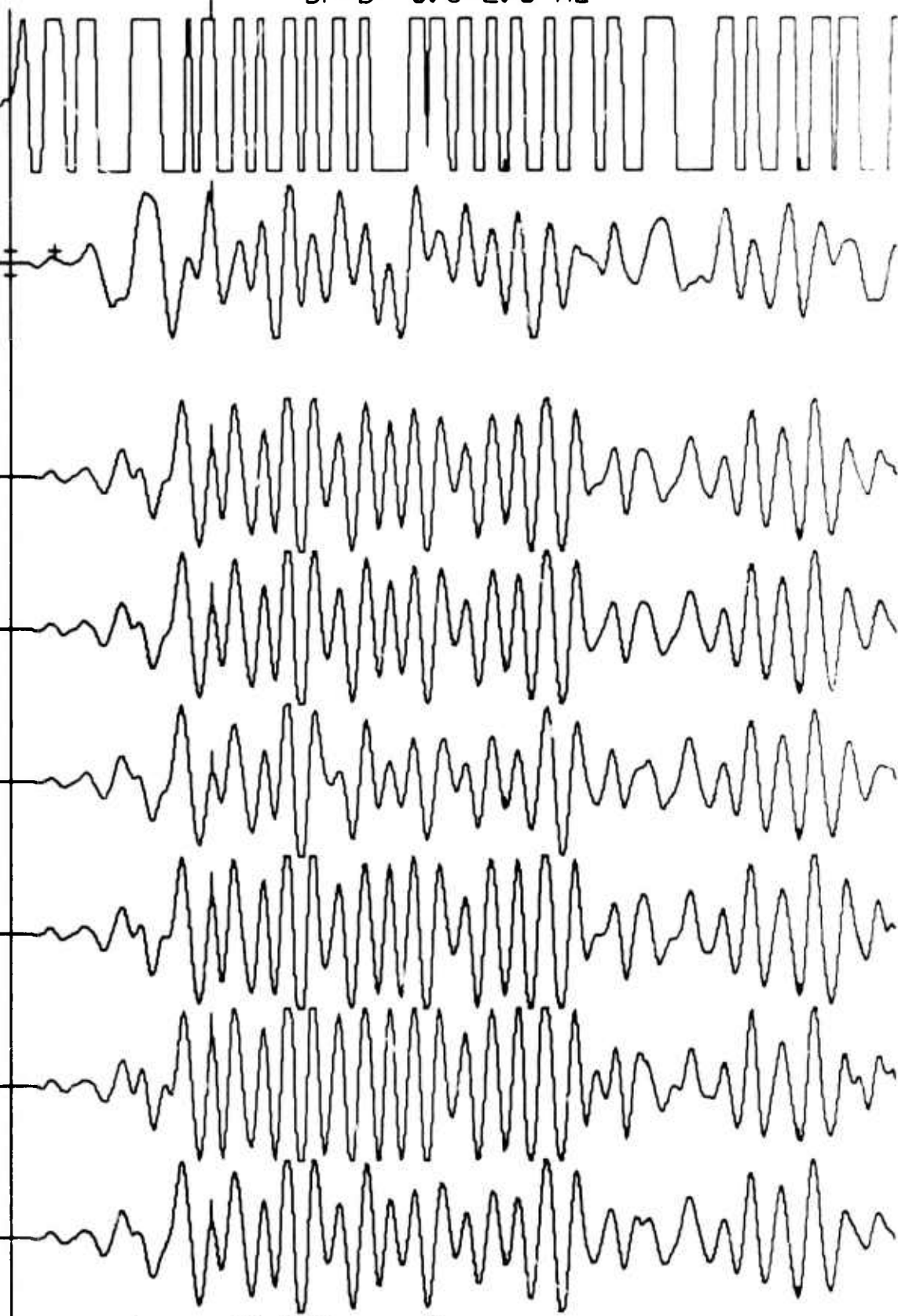
WAB 1800

PAB1 1950

PAB2 1680

PAB3 1560

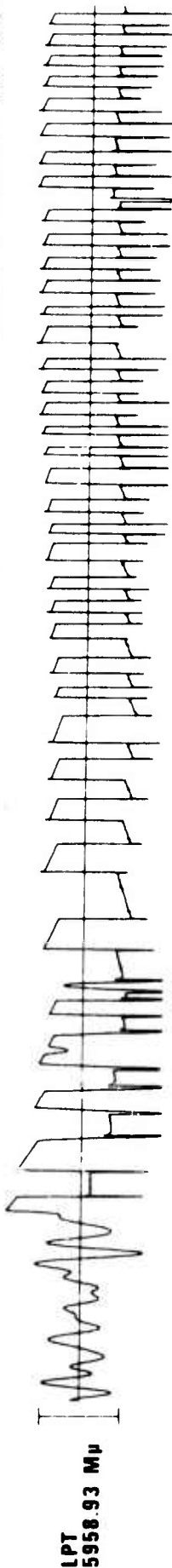
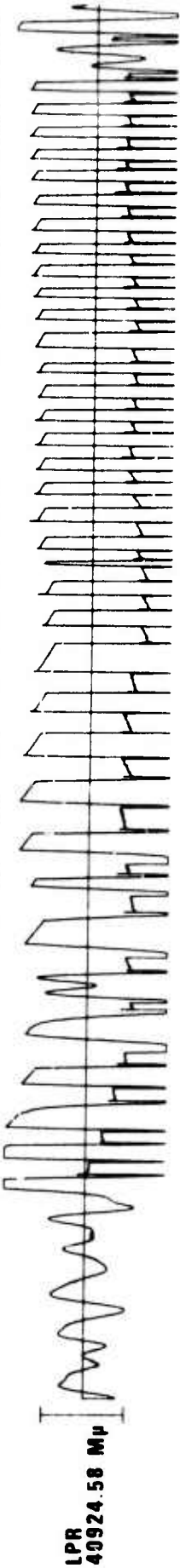
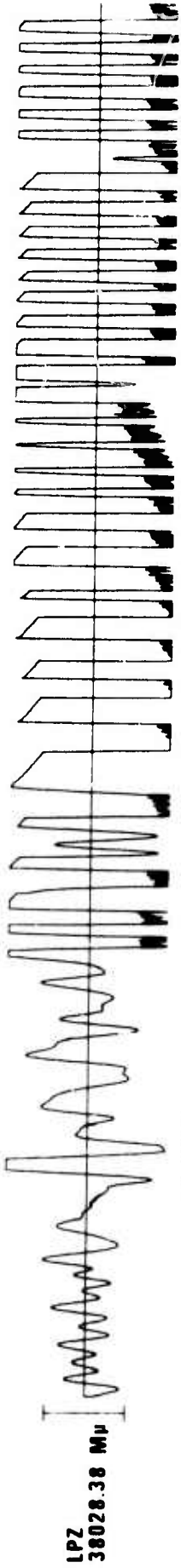
PAB4 1660



10 SEC

12

HN-ME 26 MAY 75



13





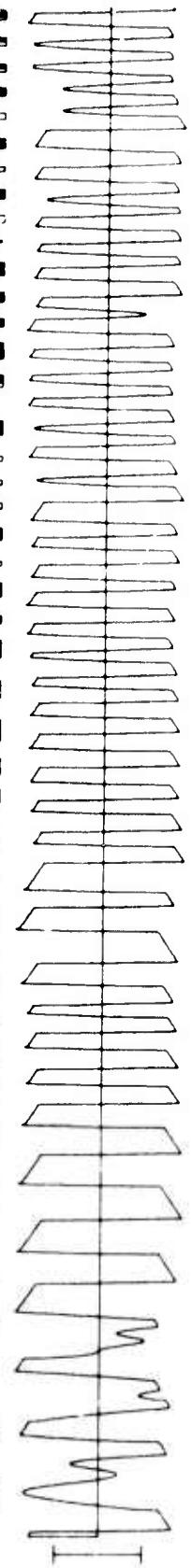
FN-WV 26 MAY 75



LPZ  
4861.44 MHz



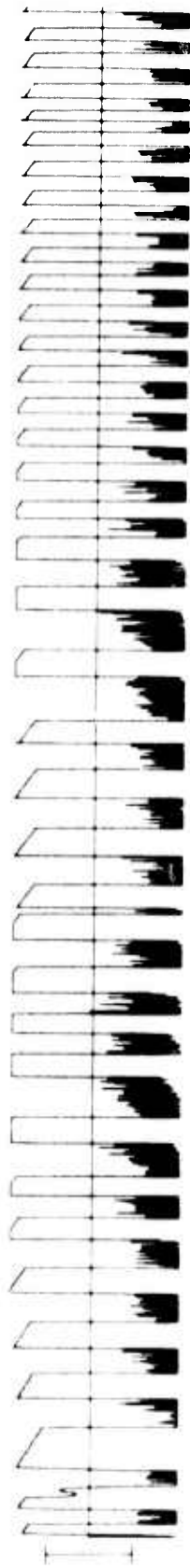
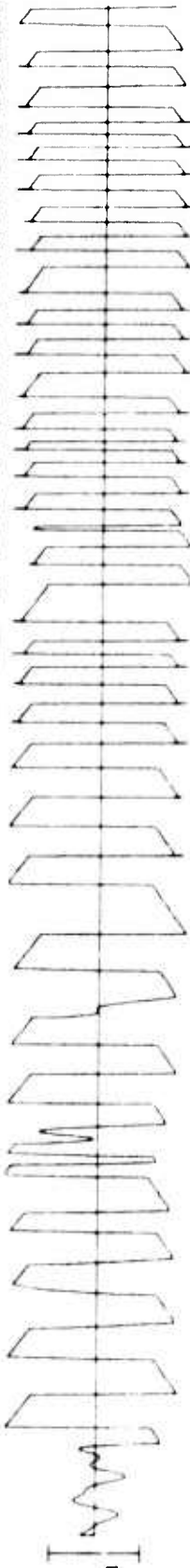
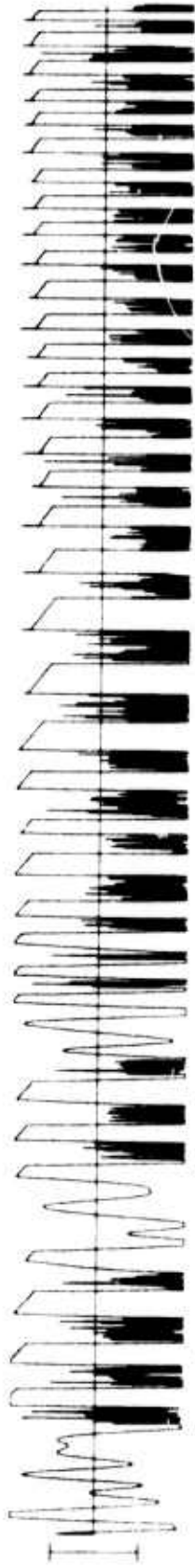
LPR  
6226.41 MHz



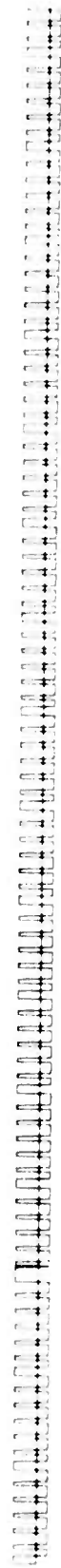
LPT  
6147.49 MHz



CPSO 26 MAY 75



15

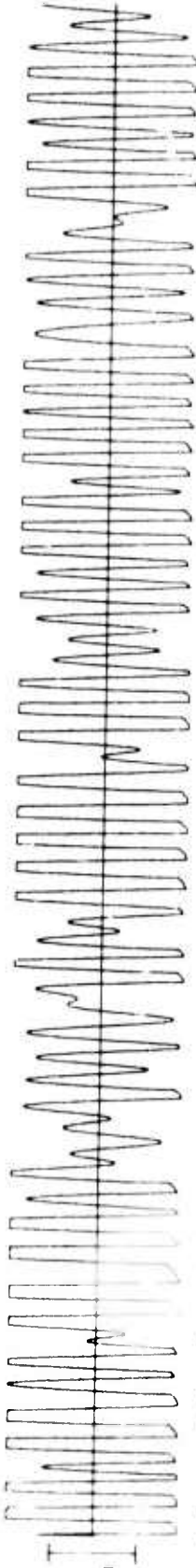


2 MIN

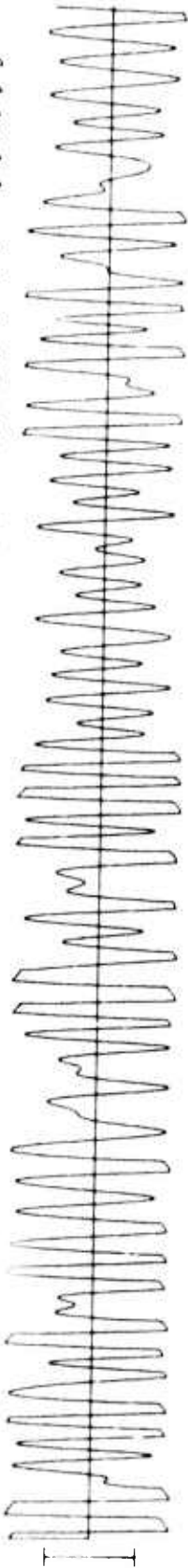
09:37:00

RK-ON 26 MAY 75

LPZ  
56258.28 Mμ



LPR  
732.1.05 Mμ



LPT  
6580.35 Mμ



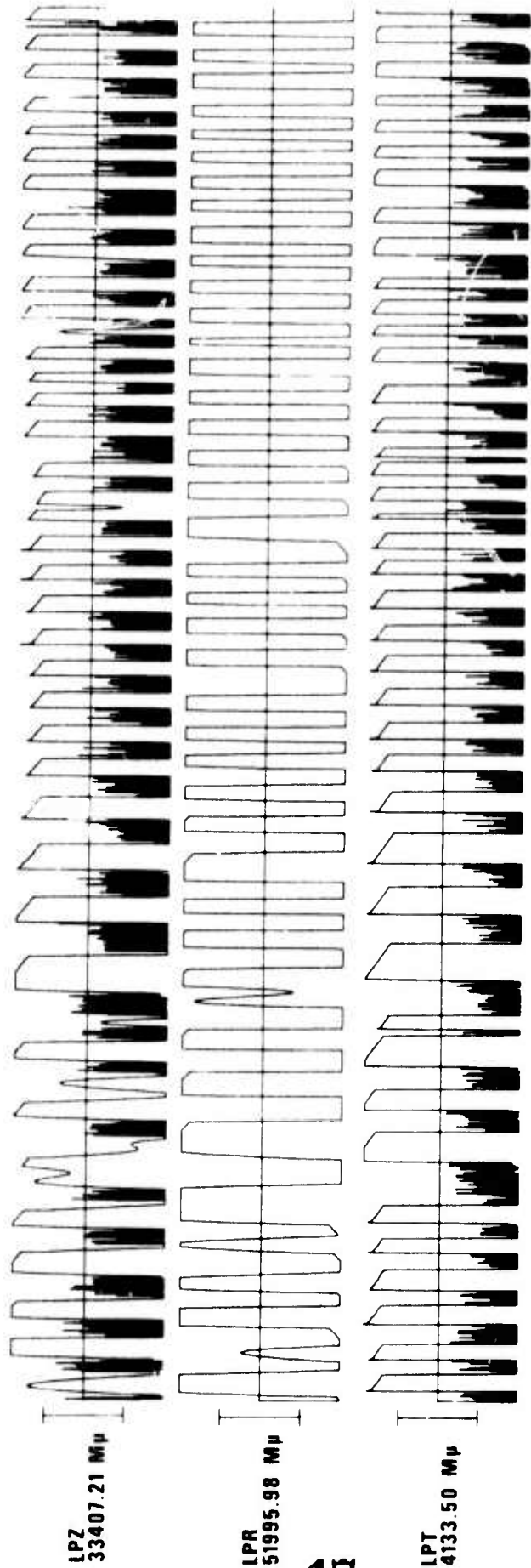
TIME



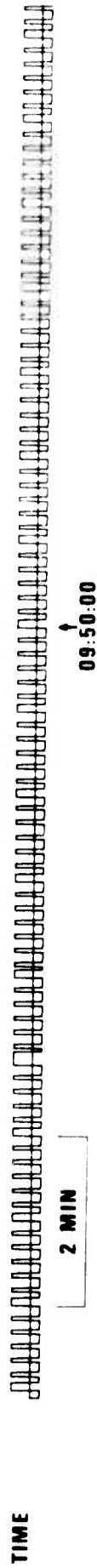
2 MIN

09:40:00

WH2YK 26 MAY 75



12



TIME

**NORSAR LONG PERIOD VERTICAL BEAM 26 MAY 75**

