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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT,
AFGHANISTAN-USSR BORDER REGION, 3 MARCH 1975

J. R. Woolson, et al

Teledyne Geotech

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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Afghanistan-USSR Border Region, 03 March 1975

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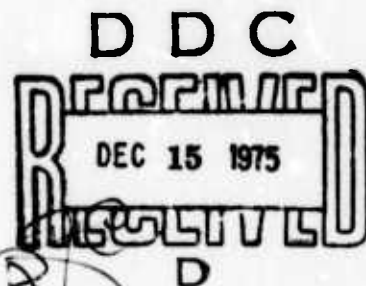
September 1975

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1.

SDCS Event Report No. 14

Afghanistan - USSR Border Region, 03 March 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	Lat.	Long.	Depth	m_b	M_s
NORSAR	09:48:23	36.2N	071.1E	205 km	5.5	4.2
LASA	09:48:57	43.6N	070.6E	190 km	5.4	4.4
PDE	09:48:24	36.4N	070.9E	201 km	5.3	-
Hagfors Array, Sweden	09:48:20	39 N	068 E	-	5.7	4.4
SDCS & Arrays	Source parameters not calculated				5.6*	4.2

*Determined using LASA, NORSAR, and WH2YK.

RK-ON, FN-WV and CPSO were not operational for this event.

Short-period signals associated with this event were recorded at WH2YK, LASA and NORSAR. In view of the limited data, no attempt was made to compute a hypocenter. SDCS long-period signals were not identifiable by visual analysis. HN-ME short-period data is negative.

The long-period radial instrument at WH2YK was operating at a very low gain and system noise dominates that trace.

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	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

Notes:

Details of the program used to obtain beamed vertical, radial and transverse data at LASA, ALPA and NORSAR are in the process of being reviewed. Vertical beams are probably valid, horizontal beams at the LASA and NORSAR are questionable. Horizontal beams at ALPA are probably invalid.

FN-WV, RK-ON, WH2YK and HN-ME horizontal instruments are oriented radial and transverse to the Nevada Test Site. CPSO is oriented N-S and E-W. LASA, NORSAR and ALPA beams have been rotated to radial and transverse with respect to the event location.

DATA SUMMARY

Sta.	Phase	Arrival Time	Inst.	Per	A/T	m_b^*	M_s	Dist.**
NAO	EP	09:56:16.0	AB	0.9	181.8	5.67		38.9
NAO	LR	10:14:32	LAB	28.0	31.7		4.21	
ALPA	LR	10:27:32	LAB	33.0	14.7		4.12	67.6
WH2YK	EP	10:00:17.1	SPZ	0.8	48.4	5.50		73.8
LAO	EP	10:01:35.3	AB	0.9	52.8	5.72		89.9
LAO	LR	10:46:22	LAB	25.0	19.9		4.37	

Average m_b = 5.63

Average M_s = 4.23

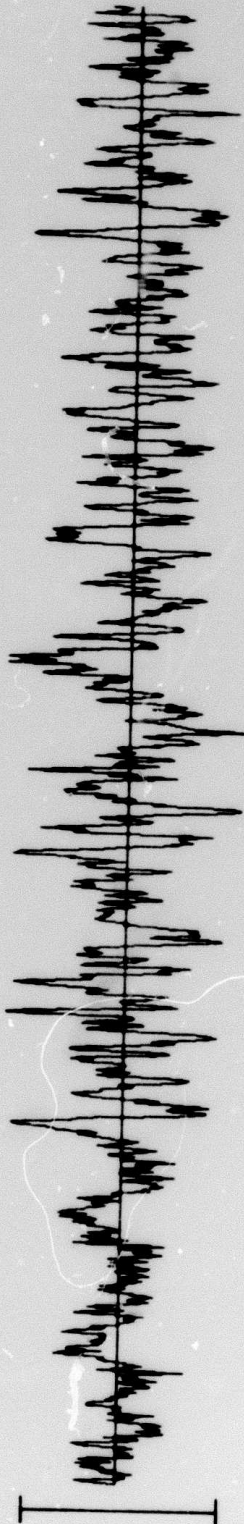
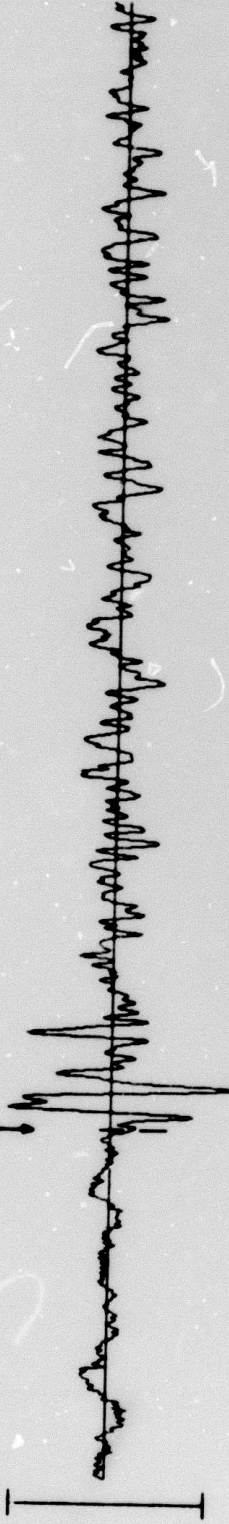
* For event source at surface

** Distances are calculated to LASA location.

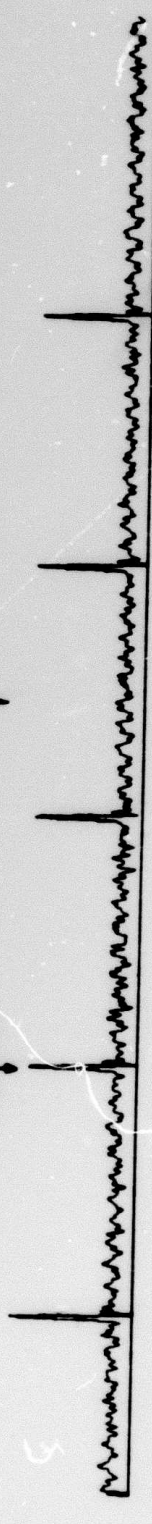
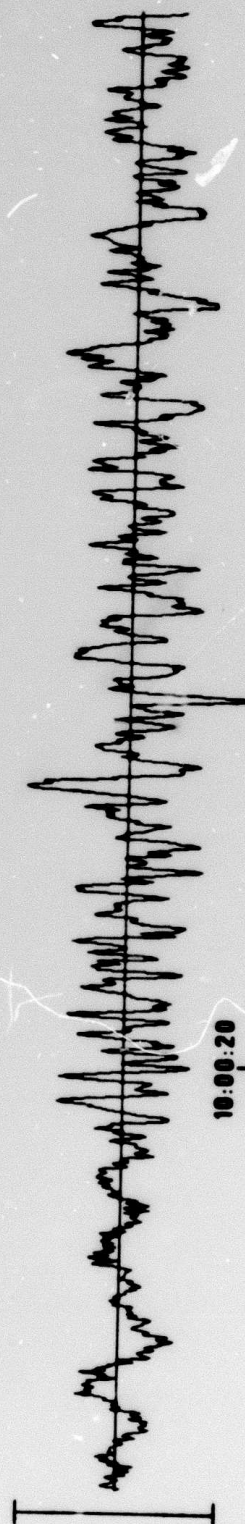
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WH2YK 03 MAR 75

10:00:17.1



10:00:20



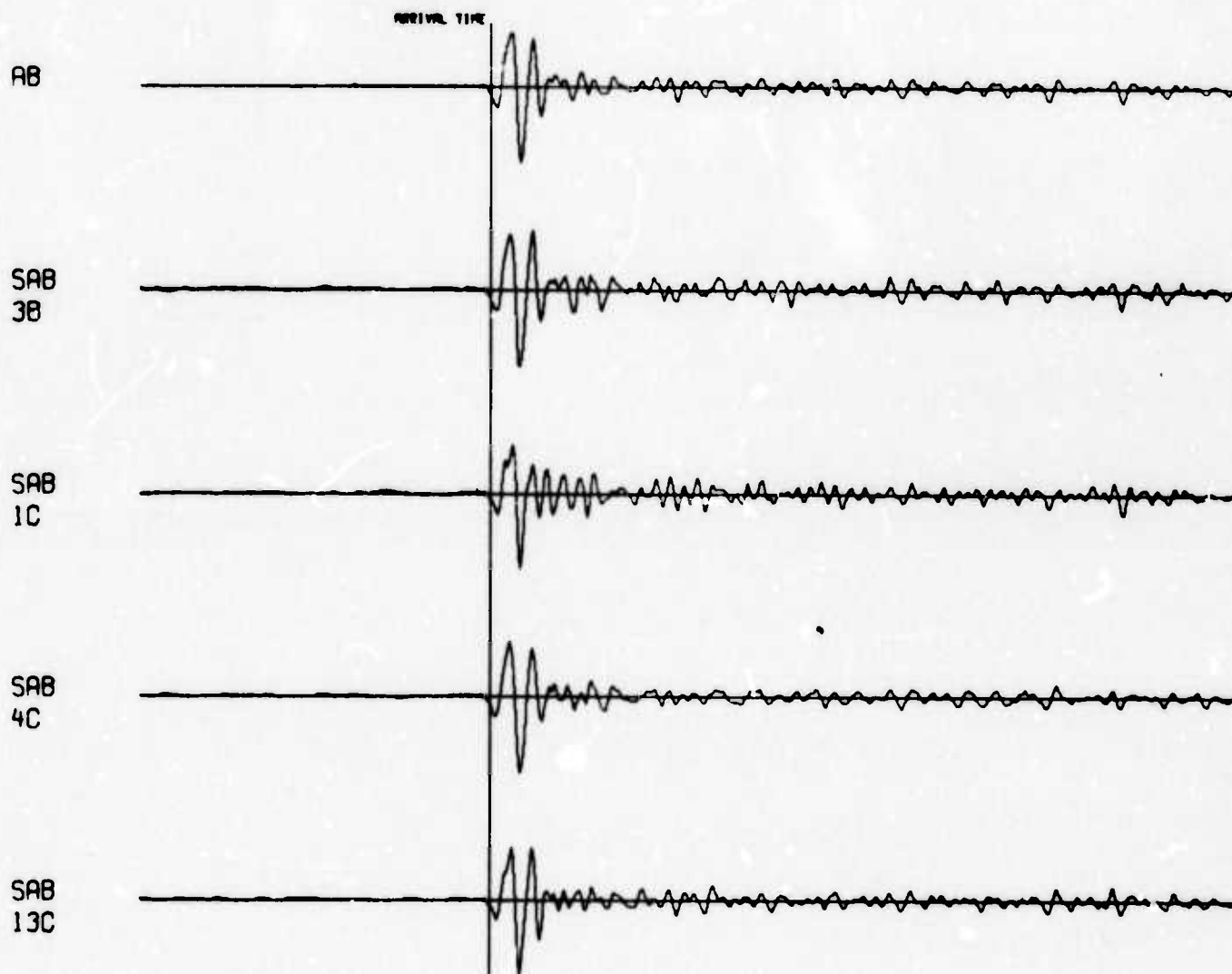
10 sec

NORSAR EVENT FILE 1975 MAR 3

EPX NO. 80150 ARR. 9.56.16.5 35.3N 72.0E 5.6MB 33KM

DIST = 46.0 AZI = 95.0 AMP = 99.2 PER = 0.9 UMETH 2

— = 5 SECONDS



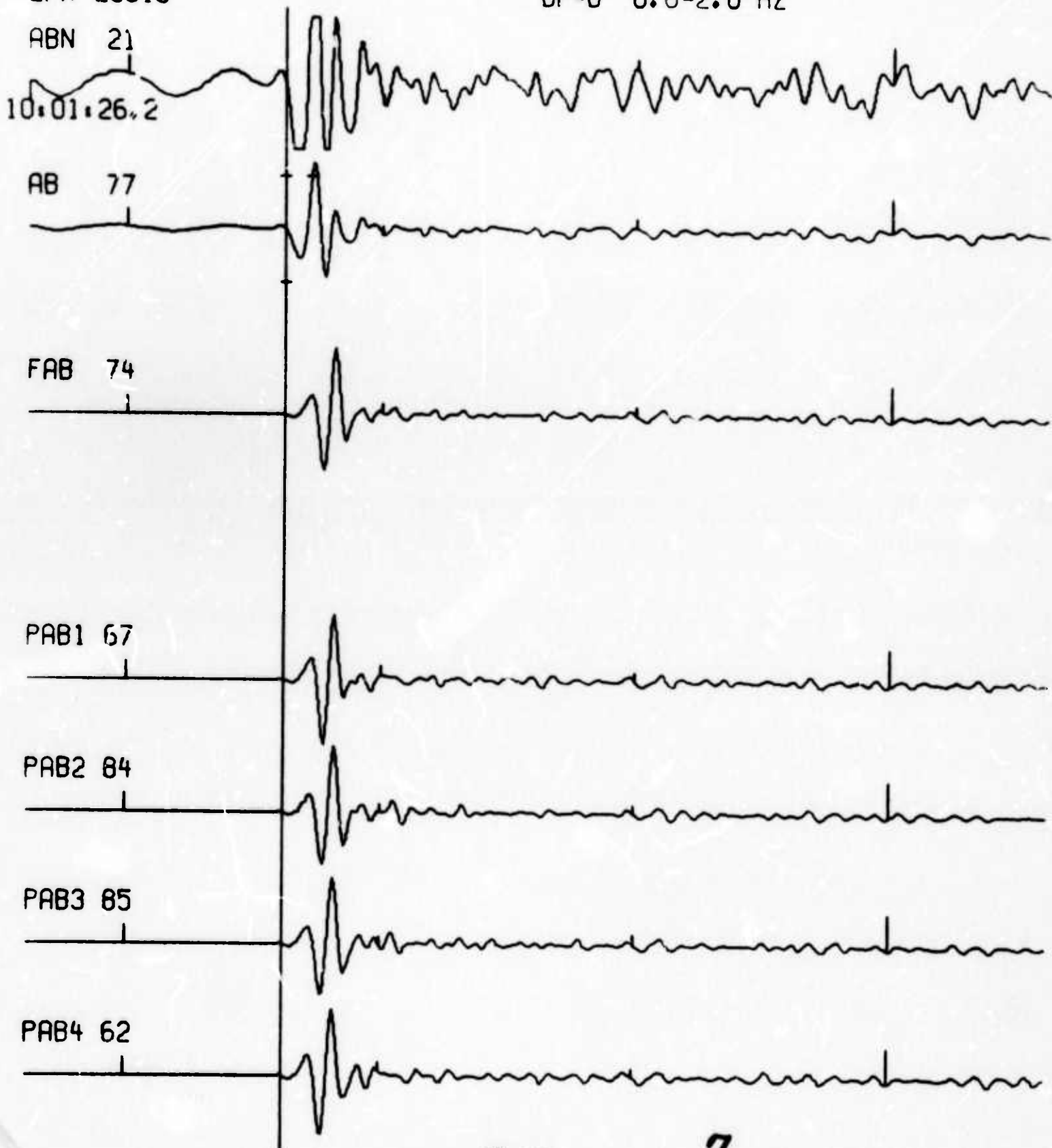
6.

LASA

1 3 MAR 1975
2 9 48 58 43.6N 70.6E 190G B 5.4 713 CENTRAL KAZAKH SSR
3 10 1 36.2 LAO P 35.5 1.1 23.8 90.2 2.4

EPX 25615

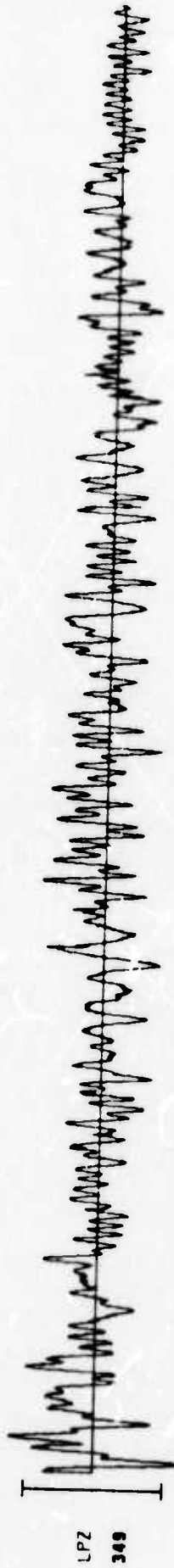
BP-B 0.6-2.0 HZ



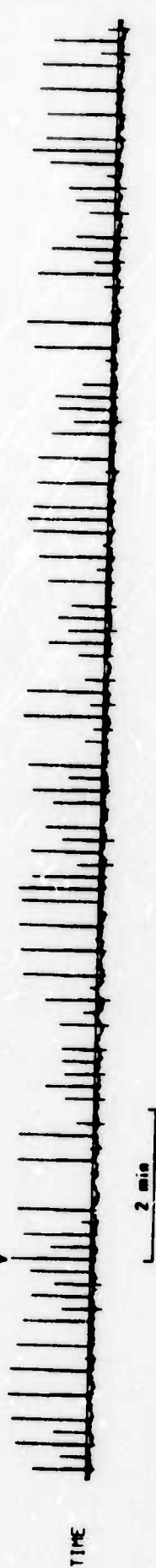
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7.

WH2YK 03 MAR 75



10:35:00



2 min

NORSAR LONG-PERIOD BEAMS

03 MARCH 75

LP VERTICAL

911 mp

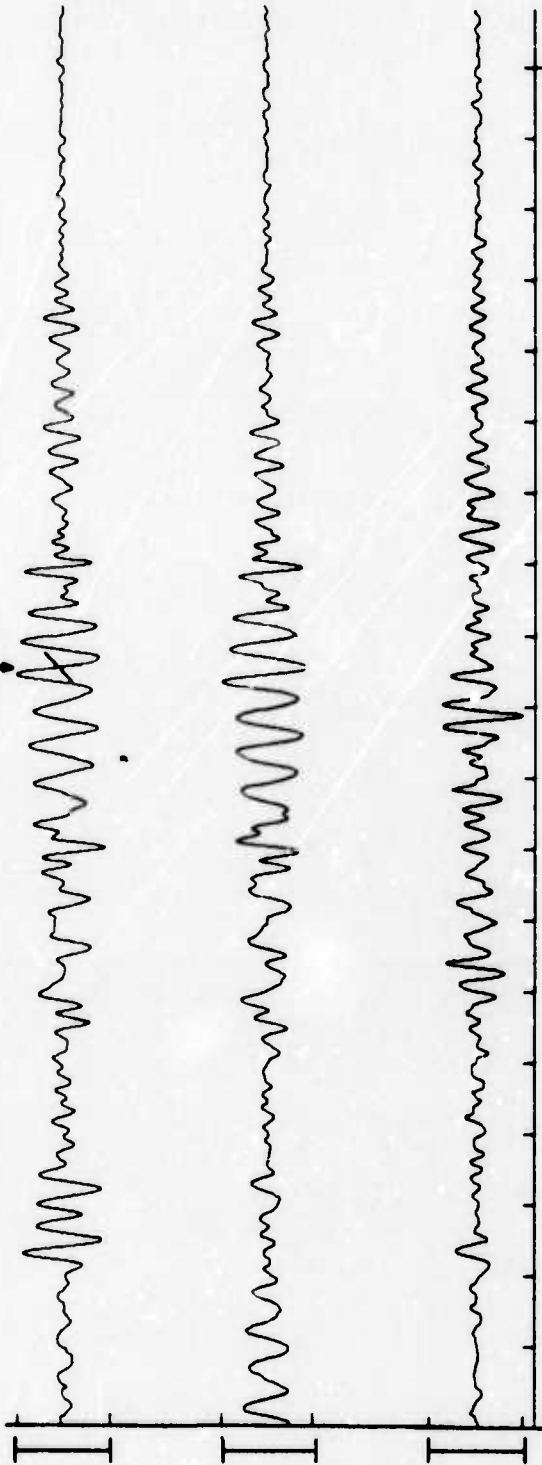
LP RADIAL

003 mp

LP TRANSVERSE

000 mp

10:14:32



10:03:51.0

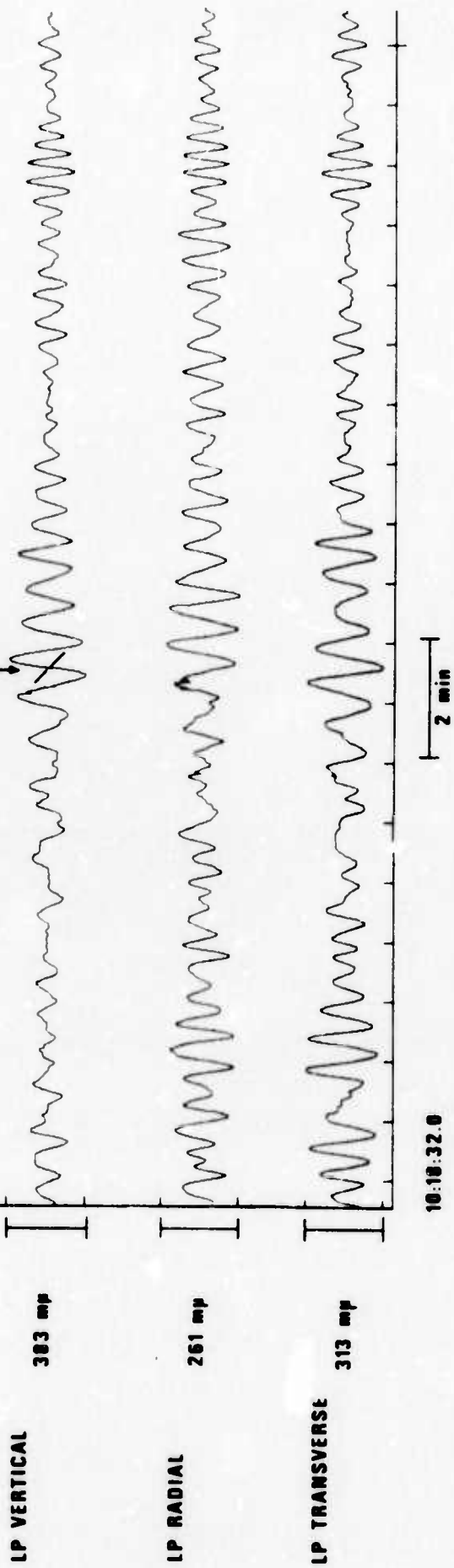
2 min

10:23:00.0

9.

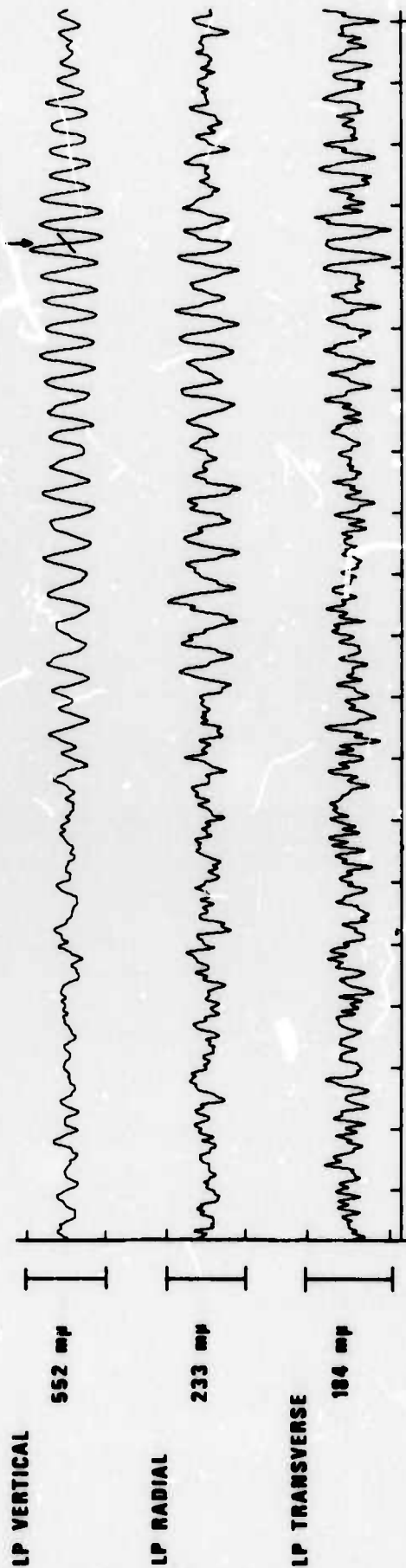
ALPHA LONG-PERIOD BEAMS

03 MARCH 75



10.

LASA LONG-PERIOD BEAMS
03 MARCH 75



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