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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,
NEAR EAST COAST OF EASTERN RUSSIA, 16 MAY 1975

K. J. Hill, et al

Teledyne Geotech

Prepared for:

Air Force Technical Applications Center

21 January 1976

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ADA 022872

**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Near East Coast of Eastern Russia, 16 May 1975**

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January 1976

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1400 Wilson Boulevard, Arlington, Virginia 22209

ARPA Order No. 2897

Monitored By

VELA Seismological Center

312 Montgomery Street, Alexandria, Virginia 22314

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1 REPORT NUMBER SDCS-ER-75-44	2 GOVT ACCESSION NO.	3 RECIPIENT'S CATALOG NUMBER
4 TITLE (and Subtitle) SPECIAL DATA COLLECTION SYSTEM (SDCS) Near East Coast of Eastern Russia, 16 May 1975		5 TYPE OF REPORT & PERIOD COVERED Technical
		6 PERFORMING ORG. REPORT NUMBER
7 AUTHOR(s) Hill, K. J., Dawkins, M. S., Baumstark, R. R., and Gillespie, M. D.		8 CONTRACT OR GRANT NUMBER(s) F08606-74-C-0013
9 PERFORMING ORGANIZATION NAME AND ADDRESS Teledyne Geotech 314 Montgomery Street Alexandria, Virginia 22314		10. PROGRAM ELEMENT PROJECT TASK AREA & WORK UNIT NUMBERS T/4703
11 CONTROLLING OFFICE NAME AND ADDRESS Defense Advanced Research Projects Agency Nuclear Monitoring Research Office 1400 Wilson Blvd.-Arlington, Virginia		12 REPORT DATE 21 January 1976
		13. NUMBER OF PAGES 350
14 MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) VELA Seismological Center 312 Montgomery Street Alexandria, Virginia 22314		15 SECURITY CLASS (of this report) Unclassified
		16a. DECLASSIFICATION DOWNGRADING SCHEDULE
16 DISTRIBUTION STATEMENT (of this Report) APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.		
17 DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18 SUPPLEMENTARY NOTES		
19 KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20 ABSTRACT (Continue on reverse side if necessary and identify by block number)		

SDCS EVENT REPORT NO. 44

Near East Coast of Eastern Russia, 16 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	01:25:12.2	01:14:08	41 N	137 E	5.3	N/A
LASA	01:25:58.1	01:14:14	41.7N	135.9E	5.8	N/A
Hagfors	01:25:09.9	01:14:14	40 N	131 E	5.8	5.1

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

01:14:03.5 40.6N 135.7E 5.6 4.3

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at WH2YK, RK-ON, HN-ME, CPSO, LASA and NORSAR. FN-WV did not record a short-period "P" arrival for this event and was not included in this report. Horizontal SP channels at WH2YK, RK-ON, HN-ME and CPSO were rotated.

Long-period signals were recorded at WH2YK, HN-ME, FN-WV, CPSO, ALPA, LASA and NORSAR. Horizontal LP channels at CPSO, WH2YK and RK-ON were rotated. Horizontal LP channels at HN-ME were not rotated because of unknown gain of the LP radial channel. Horizontal LP channels at FN-WV were not rotated because of unknown instrument orientation.* The operating gain of the LP vertical channel at RK-ON was unknown because the instrument was not responding properly. 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.

* 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.

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	51300
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	KS56000	KS56000
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

HYPOCENTER DETERMINATION

INPUT FOR EVENT 16 MAY 75
 01:14:14.0 41.700N 135.900E 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CAIC	REST	REST	REST
WH2YR	01 23 38.3	0.2	0.2	55.4	36.7
NAC	01 25 12.2	-0.1	-0.0	69.4	334.6
IAC	01 25 58.1	0.0	0.1	77.1	38.5
RK-CN	01 26 08.9	-0.7	-0.8	79.3	29.3
HN-ME	01 27 09.5	0.6	0.5	91.1	16.2
CFC	01 27 28.5	-0.0	0.0	95.2	32.7

67 HERRIN TRAVEL TIME TABLES

CFIGIN	IAT.	ICNG.	DEPTH (KM)	SDV	IT	STA
01:14:15.3	40.945N	135.754E	76. CAIC	0.4	7	6
01:14:03.5	40.557N	135.696E	0. REST	0.4	3	6

CAIC			REST		
1	2	3	1	2	3
0	.	3	0	.	3
0	0.0	0	0	0.0	0
.
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= 0.90
 MAJCF 153.9KM. MINCF 44.2KM. AZ= 5 AREA= 21373 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 16 MAY 75
 01:14:14.0 41.700N 135.500E 0KM.

STA.	PHASE	ARRIVAL		INST	EFF	AZT	MAGNITUDE		DIR	DIST
		TIME					MB	MS		
PIFA	IR	01 41	31.0	IFZ	22.0	11.		3.85		48.5
WH2YK	EP	01 23	38.3	SFZ	1.2	99.	5.50			55.4
WH2YK	LR	01 50	53.0	IFZ	20.0	12.		3.94		55.4
NAC	EP	01 25	12.2	AB	1.0	86.	5.59			69.4
NAC	LR	01 57	49.0	IFZ	20.0	34.		4.49		69.4
IAC	EP	01 25	59.1	AB	1.2	120.	5.68			77.1
IAC	LR	02 04	03.0	IFZ	18.0	14.		4.15		77.1
EK-CN	EP	01 26	08.9	SFZ	0.5	52.	5.19			79.3
HN-ME	EP	01 27	09.5	SFZ	1.3	67.	5.63			91.1
HN-ME	LR	02 15	11.0	IFZ	23.0	55.		4.82		91.1
FN-WV	LR	02 09	58.0	IFZ	23.0	16.		4.30		94.9
CFC	EP	01 27	28.5	SFZ	1.4	90.	5.88			95.2
CFC	IR	02 16	59.0	IFZ	21.0	17.		4.33		95.2

CFIGIN	IAT.	ICNG.	DEPTH (KM)	MAG	SDV	STA	IPMAG	LPSEV	LPSTA
01:14:15.3	40.945N	135.754E	76. CAIC	5.45	0.26	6	4.27	0.3	7
01:14:03.5	40.557N	135.696E	0. REST	5.58	0.23	6	4.27	0.3	7

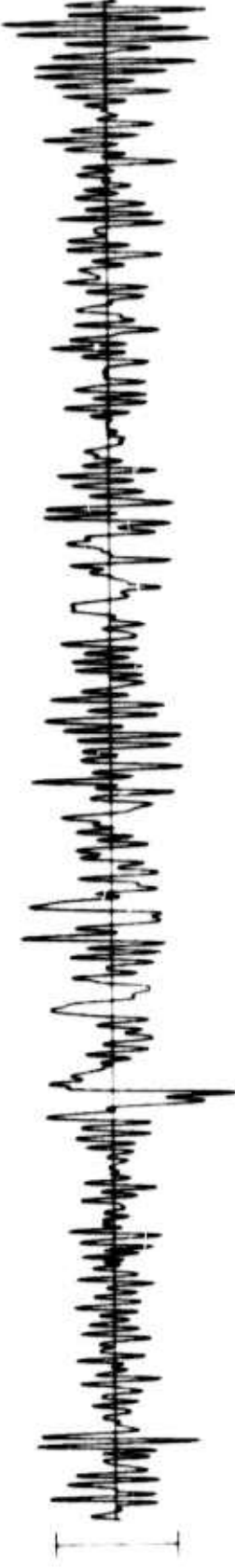
5<

WH2YK 16 MAY 75

01:23:38.3



SPZ
46.63 MP



SPR
22.15 MP



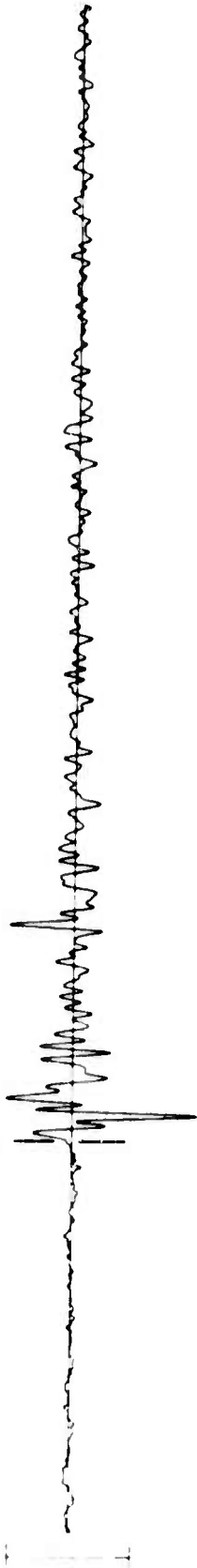
SPT
19.99 MP

10 SEC

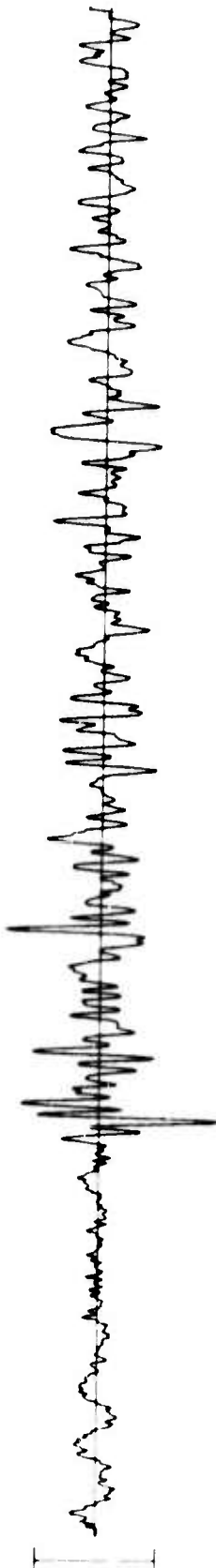
RK-ON 16 MAY 75

6<

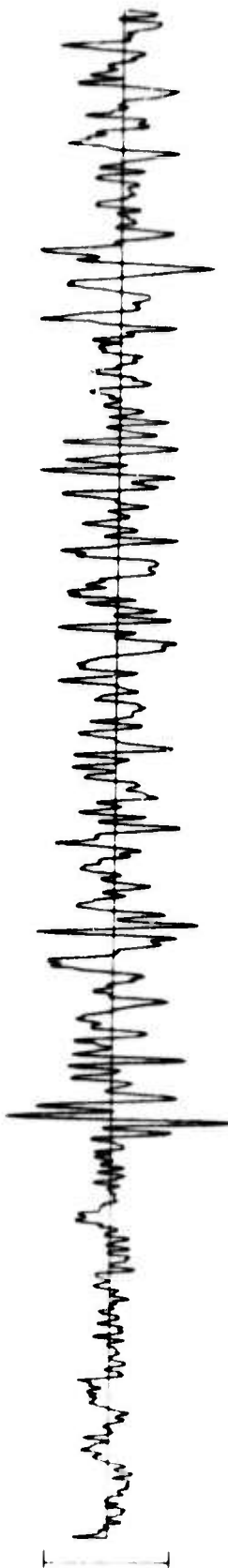
01:26:08.9



**SPZ
71.94 Mμ**



**SPR
19.36 Mμ**



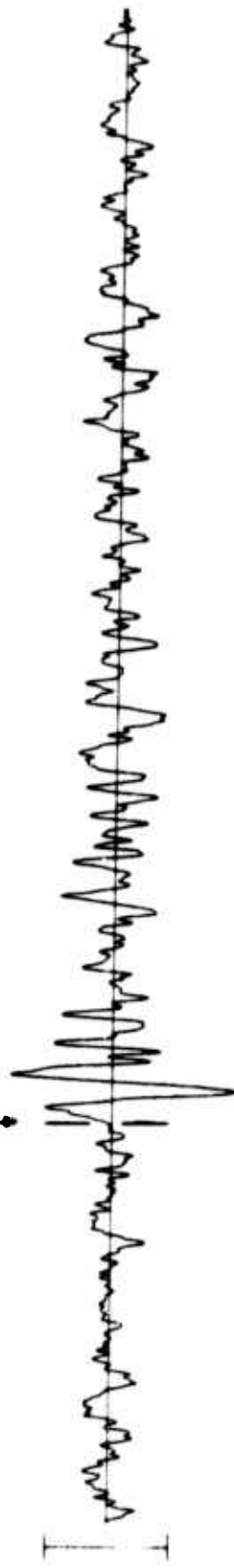
**SPT
11.25 Mμ**

10 SEC

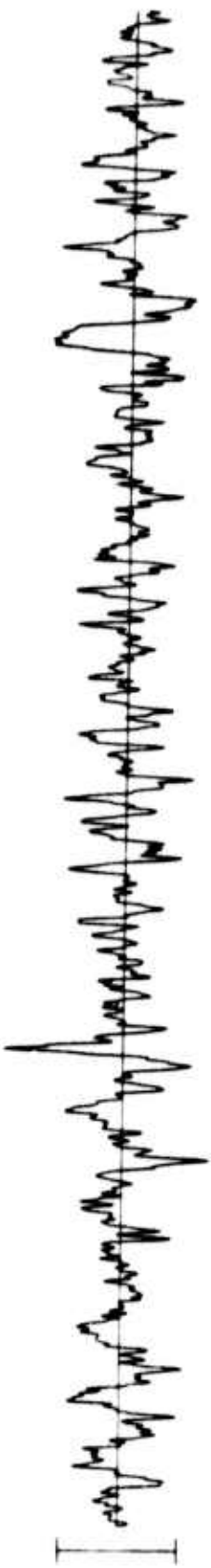
HN-ME 16 MAY 75

7<

01:27:09.5



SPZ
22.72 Mμ



SPR
11.12 Mμ



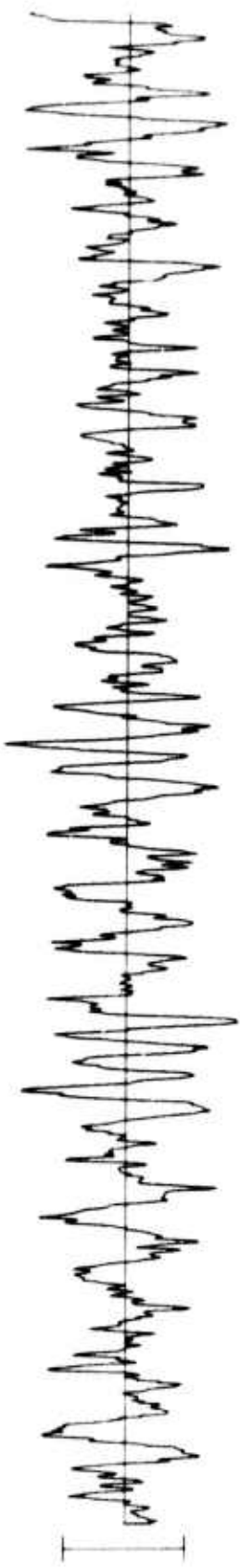
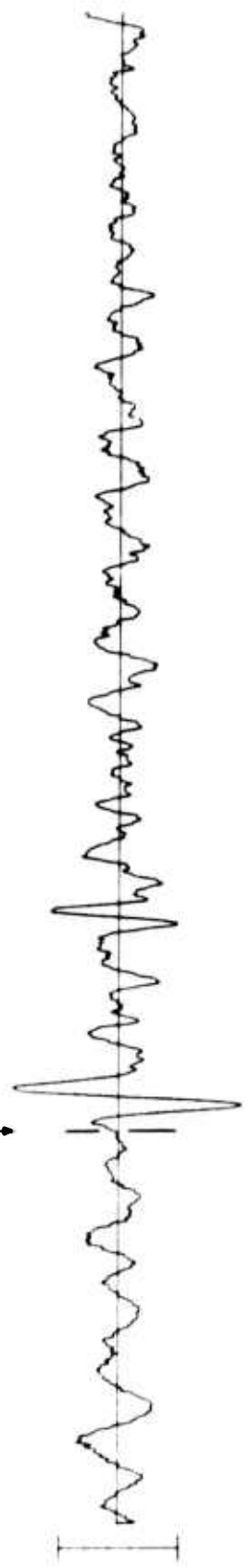
SPT
7.17 Mμ

10 SEC

8<

CPSO 16 MAY 75

01:27:28.5



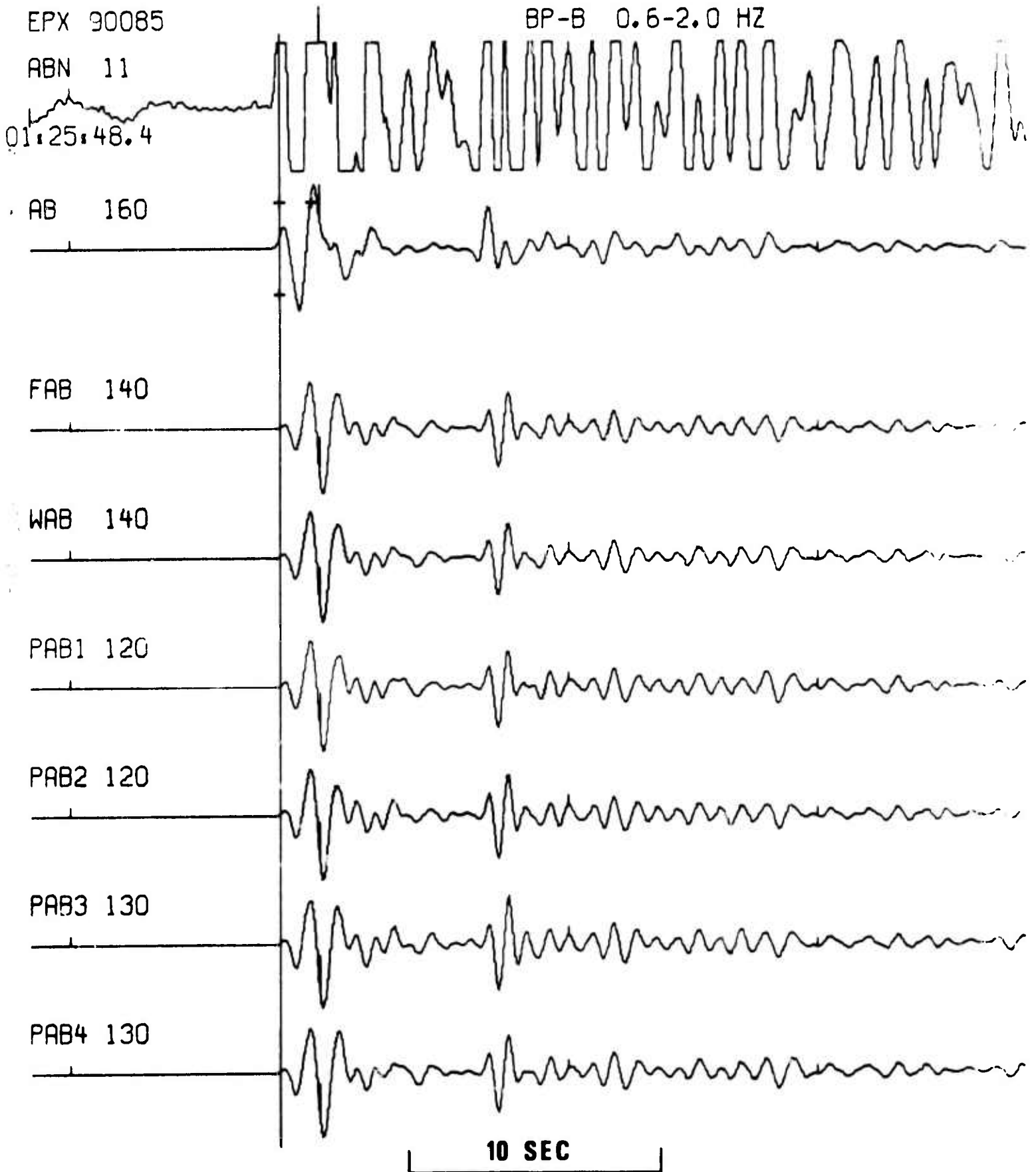
10 SEC

LASA

1 16 MAY 1975

2 1 14 14 41.7N 135.9E 33C C 5.6 660 SEA OF JAPAN

3 1 25 58.4 LAO P 95.8 1.3 19.5 76.2 317.0



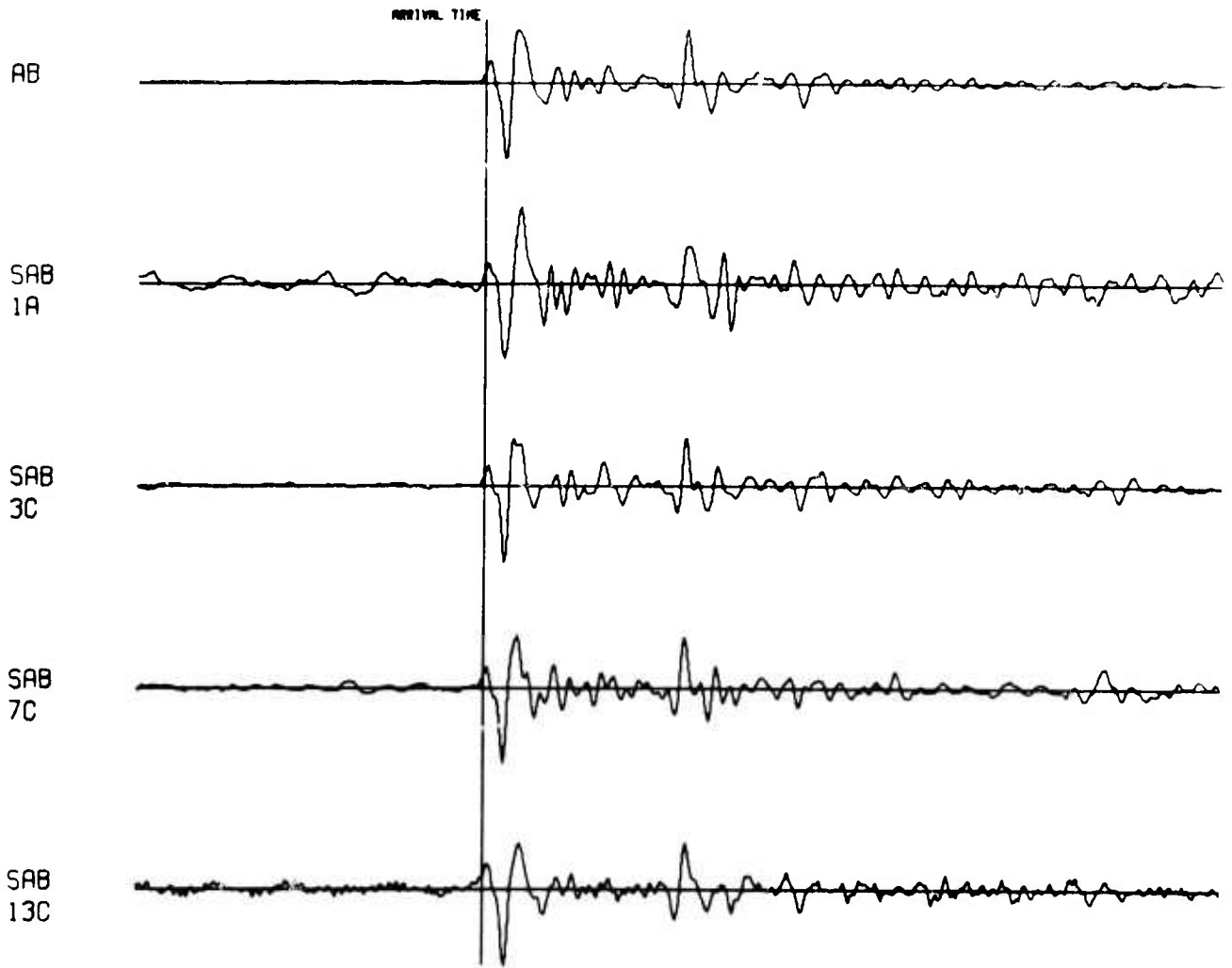
NORSAR EVENT FILE

16 MAY 75

EPX NO. 46130 ARR. 1.25.12.6 40.9N 136.8E 5.2MB 33KM

DIST = 69.5 AZI = 40.9 AMP = 43.2 PER = 1.3 UMETH 2

SCALE [] = 5 SECONDS



11<

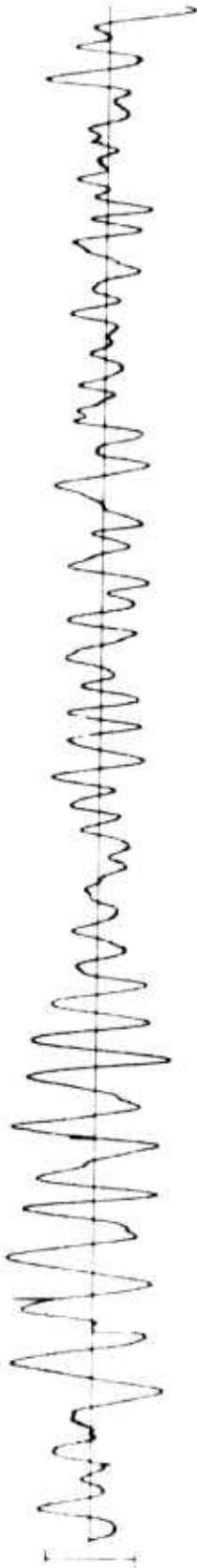
WH2YK 16 MAY 75

Lpz
246.41 M μ



01:50:53

LPR
154.87 M μ



LPT
222.39 M μ



TIME

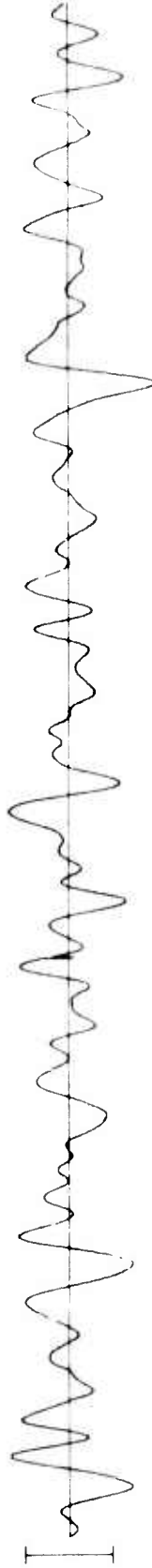
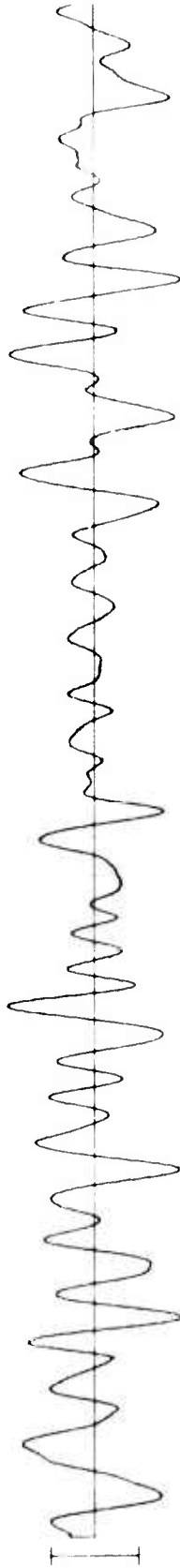
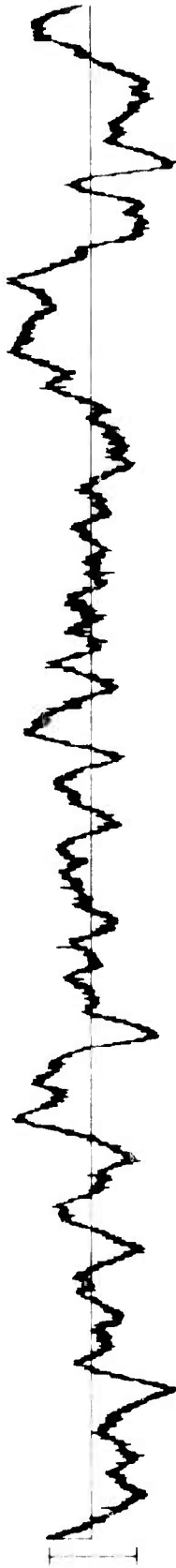


2 MIN

01:45:00

12<

RK-ON 16 MAY 75



*INSTRUMENT NOT RESPONDING PROPERLY

HN-ME 16 MAY 75

LPT
1078.51 MHz

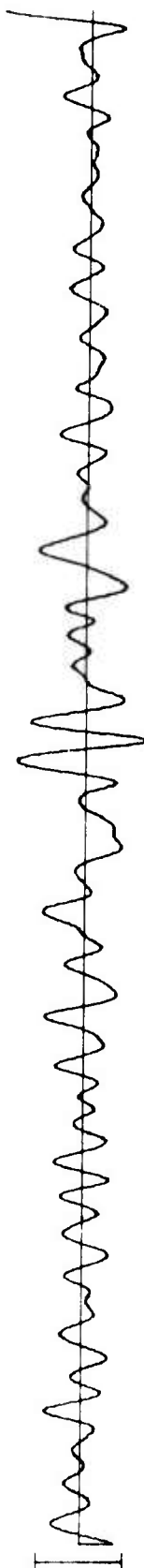
02:15:11



LPR
UNKNOWN



LPT
252.24 MHz



TIME



2 MIN

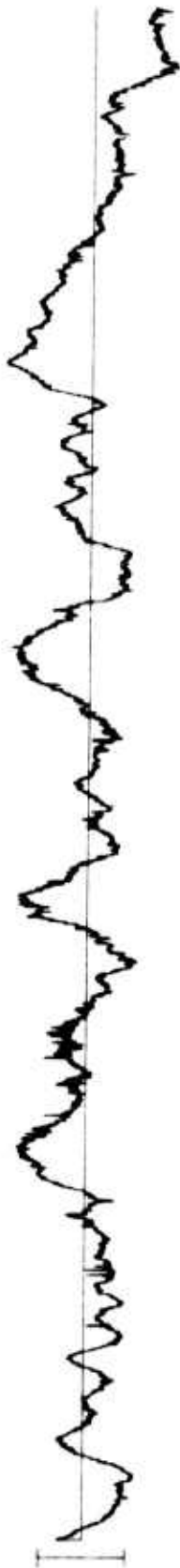
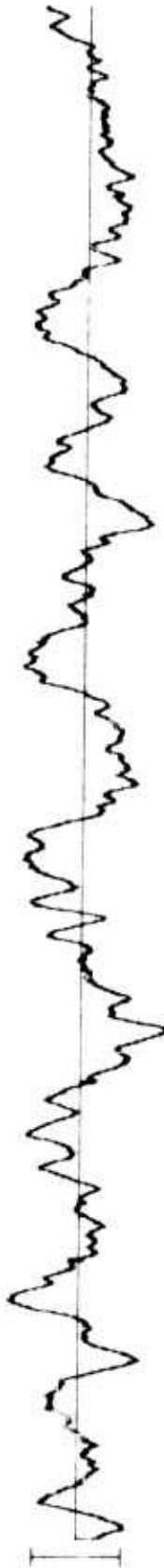
02:10:00

*CALIBRATION CIRCUIT INOPERATIVE

14<

FN-WV 16 MAY 75

02:09:58



15<

CPSO 16 MAY 75

02:16:59



TIME



2 MIN

02:16:00

ARRAY LONG PERIOD VERTICAL BEAMS 16 MAY 75

