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**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
KODIAK ISLAND REGION, 17 June 1976**

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August 1976

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1400 Wilson Boulevard, Arlington, Virginia 22209

ARPA Order No. 2897

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER SDCS-ER-76-106 ✓	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) SPECIAL DATA COLLECTION SYSTEM (SDCS) <i>Event Report</i> KODIAK Island Region, 17 June 1976		5. TYPE OF REPORT & PERIOD COVERED Technical ✓
7. AUTHOR(s) Dawkins, M. S. and Gillispie, M. D.		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS Teledyne Geotech ✓ 314 Montgomery Street Alexandria, Virginia 22314		8. CONTRACT OR GRANT NUMBER(s) F08606-76-C-00004 ✓ ARPA Order-2897
11. CONTROLLING OFFICE NAME AND ADDRESS Defense Advanced Research Projects Agency Nuclear Monitoring Research Office 1400 Wilson Blvd.-Arlington, Virginia 22209		10. PROGRAM ELEMENT PROJECT TASK AREA & WORK UNIT NUMBERS TT4703
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) VELA Seismological Center 312 Montgomery Street Alexandria, Virginia 22314		12. REPORT DATE 30 August 30, 1976
16. DISTRIBUTION STATEMENT (of this Report) Technical rept. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED		13. NUMBER OF PAGES 15
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) M. S. / Dawkins M. D. / Gillispie		15. SECURITY CLASS. (of this report) Unclassified
15a. DECLASSIFICATION DOWNGRADING SCHEDULE		
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)		

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SDCS EVENT REPORT NO. 106

Kodiak Island Region, 17 June 1976

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	02:55:11.3	02:44:57	57 N	154 W	5.3	N/A
Hagfors	02:55:17.5	02:44:47	56 N	156 W	N/A	N/A

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

02:44:52.7 57.2N 154.6W 5.0 4.0

The programs used for LASA and NORSAR data recovery, previously listed as undergoing modifications, are now usable. Beginning with the previous report (#105), data from these two arrays, both short period and long period, will be included whenever possible.

FN-WV was INOP during this period.

Short-period signals associated with this event were recorded at all operational SDCS stations, LASA and NORSAR. All SDCS short-period data were retrieved from the field-station digital tapes, and horizontal channels were rotated. Short-period "P" arrival time for LASA was obtained from their Teleseism Event Report, because information from the detection processing system was unavailable. NORSAR short-period analysis data were obtained from their bulletin. Array trace presentation for NORSAR was obtained from their event tape.

Long-period signals associated with this event were recorded at all operational SDCS stations. Horizontal channels were rotated. Long-period array data for both LASA and NORSAR were unobtainable.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response).

ACCESSION INFO	
NTIS	With Serials
DOC	Diff Serials
UNANNOUNCED	<input type="checkbox"/>
JUSTIFICATION	<input type="checkbox"/>
BY	
DISTRIBUTION/AVAILABILITY CODES	
Dist.	AVAIL. AND/OR SERIAL
<div style="text-align: right;">A</div>	

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES		ELEVATION METERS	INSTRUMENTATION	
		DEG	MN SECS		SHORT-PERIOD	LONG PERIOD
CPSO	McMinnville, Tennessee	35	35 41.4 N	574	6480 V	SL210 V
		085	34 13.5 W		7515 H	SL220 H
FN-WV	Franklin, West Virginia	38	32 58.0 N	910	KS36000	KS36000
LASA	Billings, Montana	46	41 19.0 N	744	HS10	7505A V
		106	13 20.0 W		KS36000	8700C H
HN-ME	Houlton, Maine	46	09 43.0 N	213	KS36000	KS36000
NORSAR	Kjeller, Norway	60	49 25.4 N	379	HS10	7505A V
		010	49 56.5 E		18300	8700C H
RK-ON	Red Lake, Ontario	50	50 20.0 N	366	18300	SL210 V
WHZYK	White Horse, Yukon	60	41 41.0 N	853	18300	SL220 H
		134	58 02.0 W			SL210 V

Note: The orientation of the radial instruments at FN-WV is assumed to be $16^{\circ} + 5^{\circ}$ based on empirical data (event recordings). Rotation, where performed, is referenced to this azimuth and may be questionable.

HYPOCENTER DETERMINATION

INPUT FOR EVENT 17 JUN 76
 02:44:57.0 57.000N 154.000W 0KM.

STA.	ARRIVAL	RESIDUALS		DIST. REST	AZ. REST
		CALC	REST		
WH2YK	02 47 26.5	-0.1	-0.0	10.7	63.0
LAO	02 51 12.1	1.0	1.3	31.0	88.8
RK-ON	02 51 47.7	0.2	-0.4	35.3	73.7
CPSO	02 53 45.4	-1.3	-1.2	49.9	84.7
HN-ME*	02 54 01.0	4.7 *	3.9 *	51.3	62.8
NAO	02 55 11.3	0.1	0.2	61.7	8.0

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
02:45:04.8	57.671N	153.842W	69. CALC	0.8	4	5
02:44:52.7	57.244N	154.636W	0. REST	0.9	3	5

CALC			REST		
0	. 1		0	. 1	
0	.	0	0	.	0
0	0. 1	2	0	0. 1	3
.
0	0. 0	1	0	0. 0	0
0	.	0	0	.	0
0	. 0		0	. 0	

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 1.69
 MAJOR 82.6KM. MINOR 54.3KM. AZ= 22 AREA= 14092 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 17 JUN 76
 02:44:57.0 57.000N 154.000W OKM.

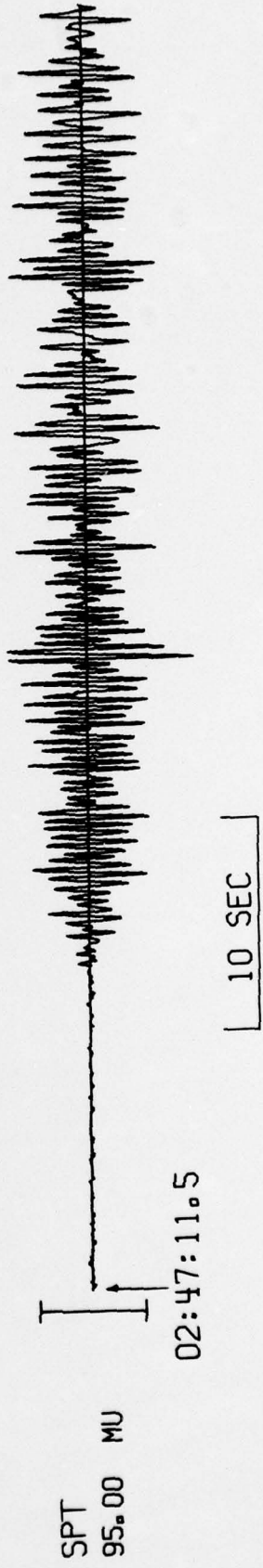
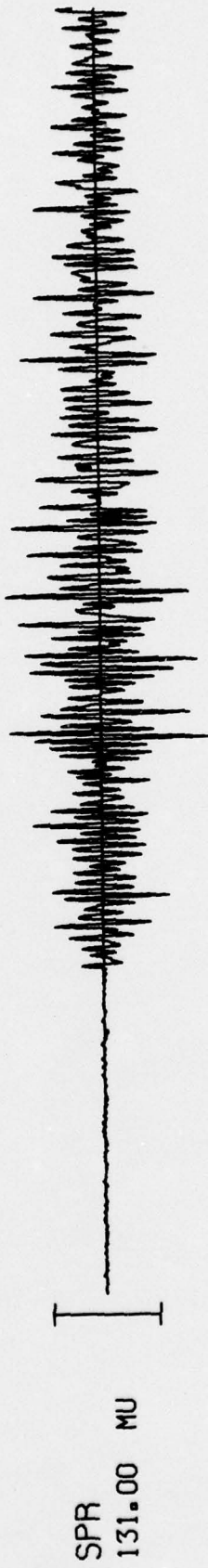
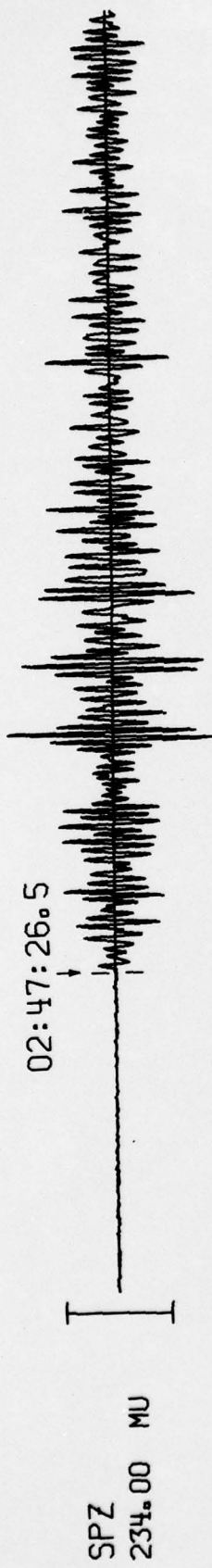
STA.	PHASE	ARRIVAL		INST	PER	A/T	MAGNITUDE		DIR	DIST
		TIME					MB	MS		
WH2YKM	EP	02 47	26.5	SPZ	0.4	136.	6.06			10.7
WH2YK	LQ	02 51	08.0	LPT	22.0	42.				
WH2YK	LR	02 52	08.0	LPZ	18.0	58.	3.91			10.7
LAO	EP	02 51	12.1	SAB	99.9	9999.				
RK-ON	EP	02 51	47.7	SPZ	0.6	21.	4.69			35.3
RK-ON	LQ	03 03	07.0	LPT	26.0	12.				
RK-ON	LR	03 05	32.0	LPZ	22.0	21.	3.99			35.3
CPSO	EP	02 53	45.4	SPZ	0.5	30.	4.89			49.9
CPSO	LQ	03 10	35.0	LPT	23.0	11.				
CPSO	LR	03 15	03.0	LPZ	20.0	23.	4.18			49.9
HN-ME*	EP	02 54	01.0	SPZ	0.6	11.	4.44			51.3
HN-ME	LQ	03 12	42.0	LPT	24.0	19.				
HN-ME	LR	03 16	40.0	LPZ	17.0	19.	4.11			51.3
NAO	EP	02 55	11.3	AB	0.8	80.	5.57			61.7

ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA	LPMAG	LPSDV	LPSTA
02:45:04.8	57.671N	153.842W	69. CALC	5.01	0.38	3	4.04	0.1	4
02:44:52.7	57.244N	154.636W	0. REST	5.05	0.46	3	4.05	0.1	4

Short-period magnitudes (m_b) used in averaging are restricted to those recorded at distances between 20 and 110 degrees from the epicenter.

HN-ME was not used due to low signal to noise ratio, which precluded calling an accurate start.

WH2YK 17 JUN 76



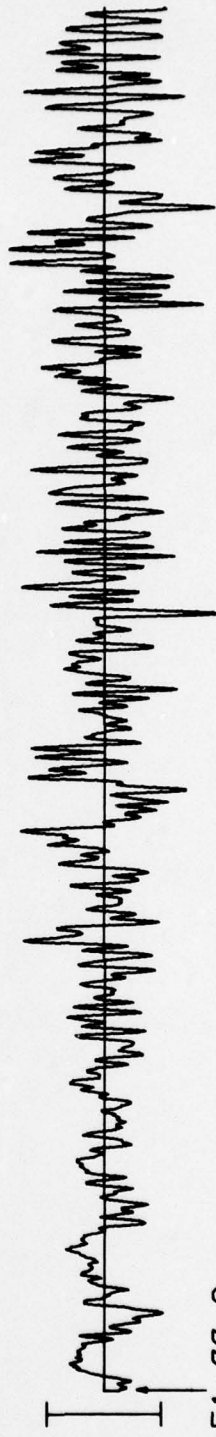
RK-ON 17 JUN 76



SPZ
22.53 MU



SPR
12.33 MU



SPT
7.44 MU

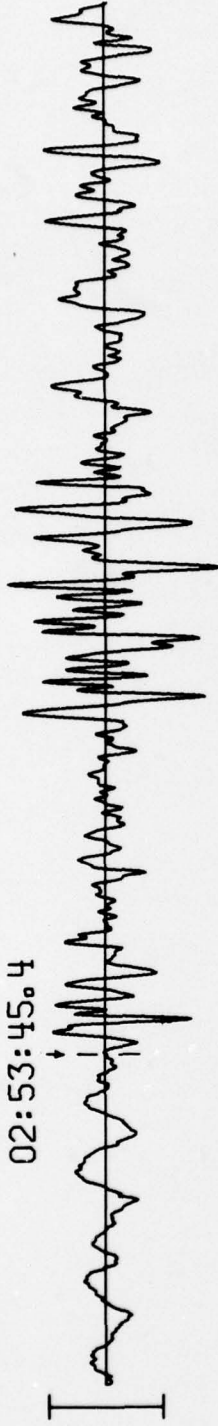
02:51:33.0

10 SEC

CPSO 17 JUN 76

02:53:45.4

SPZ
28.09 MU



SPR
17.54 MU



SPT
10.42 MU



02:53:31.0

10 SEC

HN-ME 17 JUN 76

02:54:01.0

SPZ
23.00 MU



SPR
24.36 MU



SPT
17.25 MU

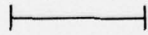


02:53:44.0

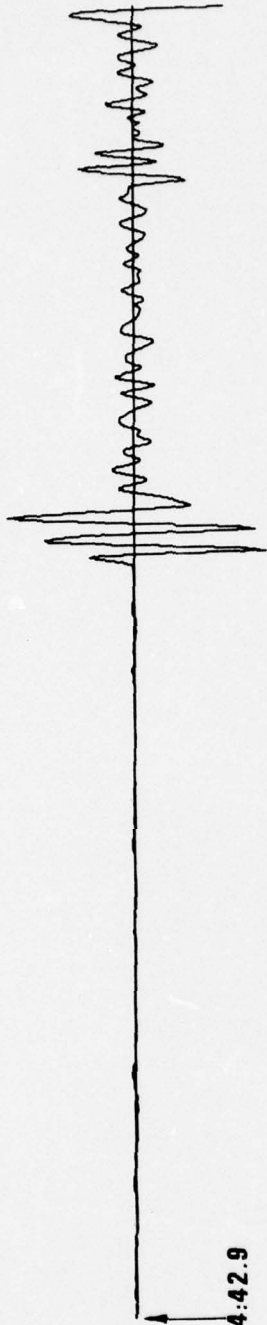
10 SEC

NORSAR ARRAY BEAM 17 JUNE 1976

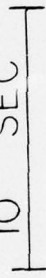
UB 50.4 NM



02:54:42.9

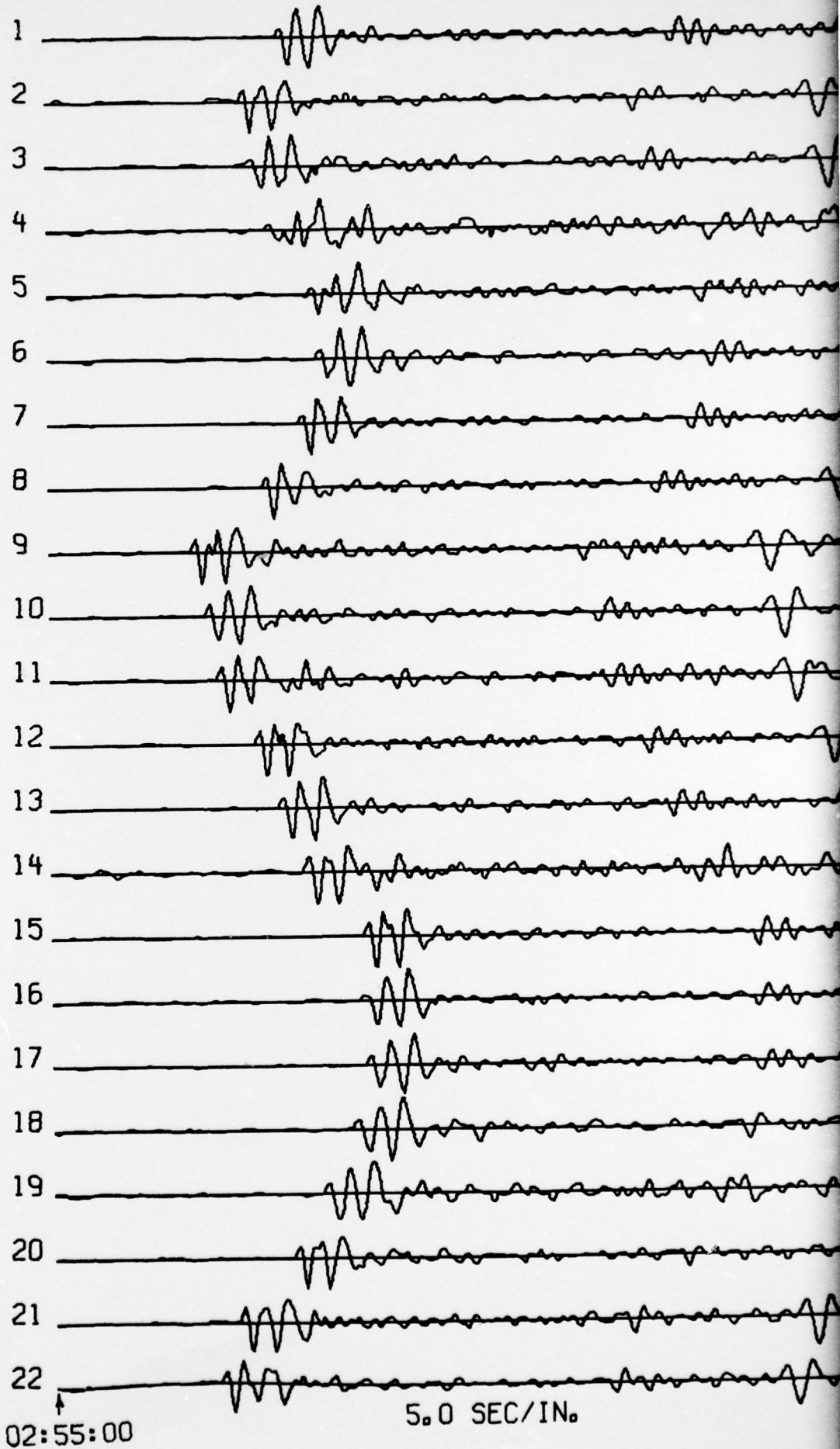


10 SEC



01A
 360.8 NM/IN
 01B
 244.1 NM/IN
 02B
 235.7 NM/IN
 03B
 130.7 NM/IN
 04B
 169.6 NM/IN
 05B
 218.7 NM/IN
 06B
 458.6 NM/IN
 07B
 356.5 NM/IN
 01C
 200.3 NM/IN
 02C
 287.1 NM/IN
 03C
 231.8 NM/IN
 04C
 304.6 NM/IN
 05C
 403.8 NM/IN
 06C
 127.8 NM/IN
 07C
 330.0 NM/IN
 08C
 351.2 NM/IN
 09C
 270.6 NM/IN
 10C
 194.5 NM/IN
 11C
 131.4 NM/IN
 12C
 254.1 NM/IN
 13C
 251.2 NM/IN
 14C
 342.3 NM/IN

NORSAR SUBARRAY BEAMS 17 JUNE 1976



WH2YK 17 JUN 76

02:52:08



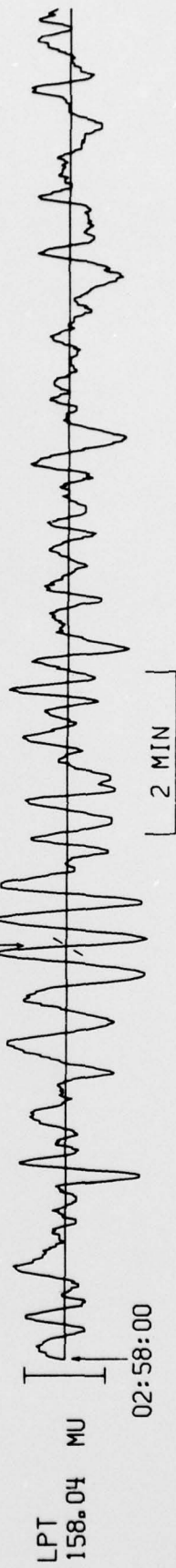
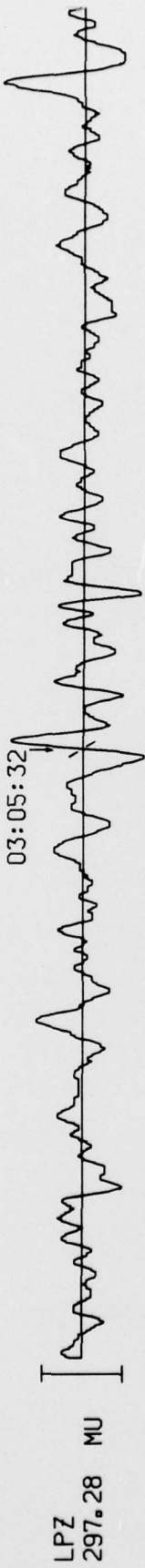
02:51:08



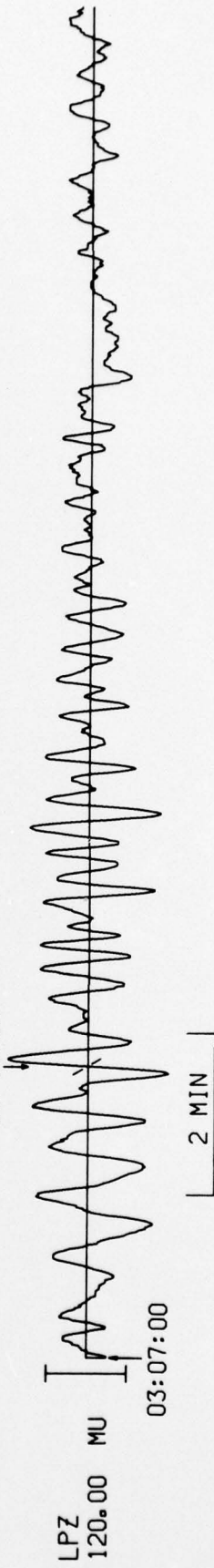
02:43:00

2 MIN

RK-ON 17 JUN 76



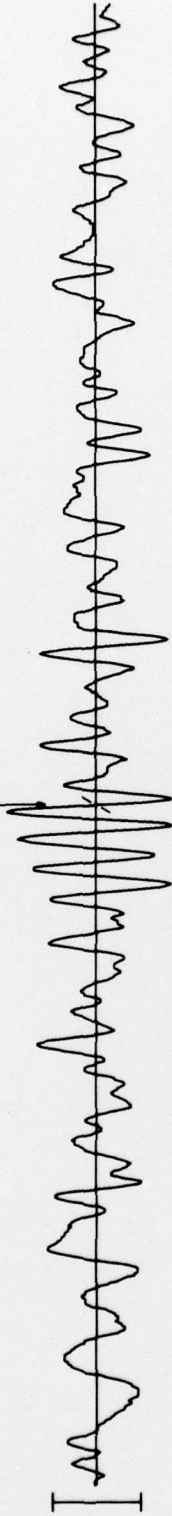
CPSO 17 JUN 76



HN-ME 17 JUN 76

03:16:40

LPZ
122.62 MU

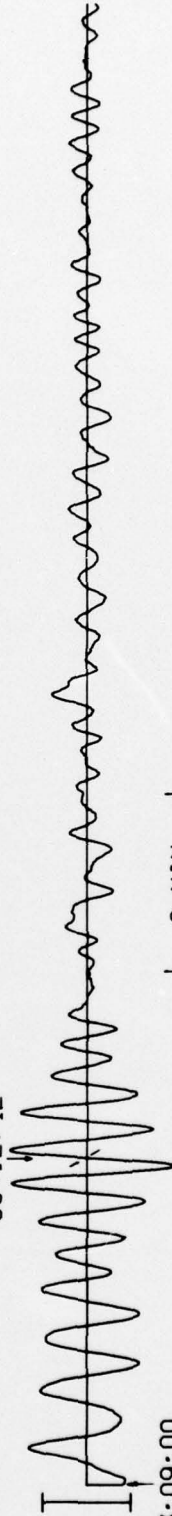


LPR
95.18 MU



03:12:42

LPT
241.22 MU



03:09:00

2 MIN