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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT
EASTERN KAZAKH SSR, 15 JANUARY 1976

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**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Eastern Kazakh SSR, 15 January 1976**

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MAY 1976

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SDCS EVENT REPORT NO. 82

Eastern Kazakh SSR, 15 January 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	04:54:18.6	04:46:47	49 N	080 E	5.0	N/A
Hagfors	04:54:09.0	04:46:00 ?	50 N	078 E	5.5	N/A

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

04:47:05.9 50.9N 077.9E 5.1 N/A

All SDCS stations were operational during this period.

The programs used for LASA, NORSAR and ALPA data recovery are presently undergoing modifications. Information for LASA short-period is reported from their Telesism Event Report; NORSAR short-period data is obtained from their bulletin. The long-period array beam recovery for these stations will be resumed upon completion of these modifications.

Short-period signals associated with this event were recorded at WH2YK, RK-ON, LASA and NORSAR. All SP channels at HN-ME had polarity reversals; to correct this, mathematical inversions of the data were performed. Horizontal SP channels at all SDCS stations were rotated.

Long-period signal arrivals at all SDCS stations were masked by Kermadec Islands event. All LP channels at HN-ME and the LP radial channel at RK-ON had polarity reversals; to correct this, mathematical inversions of the data were performed. Horizontal channels at all SDCS stations were rotated.

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

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES		ELEVATION METERS	INSTRUMENTATION	
		DEG	NM SECS		SHORT - PERIOD	LONG - PERIOD
ALPA	Alaska	65 14 44	00.0 N 36.0 W	626	None	31300
CPSO	McMinnville, Tennessee	35 35 085	41.4 N 13.5 W	574	6480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38 32 079	58.0 N 47.0 W	910	KS36000	KS36000
LASA	Billings, Montana	46 41 106	19.0 N 20.0 W	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46 09 067	43.0 N 09.0 W	213	KS36000	KS36000
NORSAR	Kjeller, Norway	60 49 010	25.4 N 56.5 E	379	HS10	7505A V 8700C H
RK-ON	Red Lake, Ontario	50 50 093	20.0 N 20.0 W	366	18300	SL210 V SL220 H
WH2YK	White Horse, Yukon	60 41 154	41.0 N 02.0 W	853	18300	SL210 V SL220 H

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

HYPOCENTER DETERMINATION

INPUT FOR EVENT 15 JAN 76
 04:47:00.0 50.000N 80.000E 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CALC	REST		
NAO	04 54 18.6	-8.3	0.1	37.3	311.9
WH2YK	04 57 50.6	-4.0	0.2	65.7	17.1
RK-ON	04 59 06.4	-5.3	-0.6	78.4	354.6
LAO	04 59 30.8	-3.4	0.4	82.7	2.9

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
NO CONVERGENCE ON CALC RUN						
04:46:24.1	49.500N	78.373E	215. CALC	2.2	16	4
04:47:05.9	50.902N	77.930E	0. REST	0.4	4	4

CALC			REST		
1	2	0	1	2	0
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 CONF..LEVEL; SDV= 0.99
 MAJOR 370.7KM. MINOR 43.4KM. AZ= 179 AREA= 50598 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 15 JAN 76
 04:47:00.0 50.000N 80.000E 0KM.

STA.	PHASE	ARRIVAL		INST	PER	A/T	MAGNITUDE		DIR	DIST
		TIME					MB	MS		
NAO	EP	04 54	18.6	AB	0.5	49.	4.89			37.3
WH2YK	EP	04 57	50.6	SPZ	0.5	34.	5.23			65.7
RK-ON	EP	04 59	06.4	SPZ	0.4	43.	5.19			78.4
LAO	EP	04 59	30.8	SAB	0.0	0.				

ORIGIN LAT. LONG. DEPTH (KM) MAG SDV STA
 04:47:05.9 50.902N 77.930E 0. REST 5.11 0.19 3

WH2YK 15 JAN 76

04:57:50.6



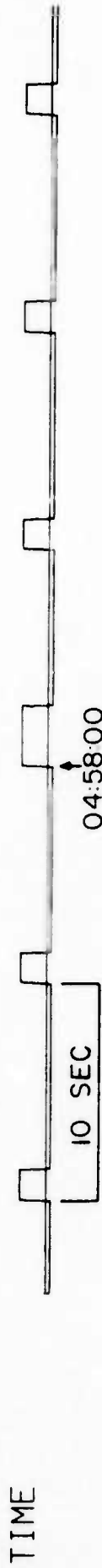
SPZ
31.62 MU



SPR
14.45 MU

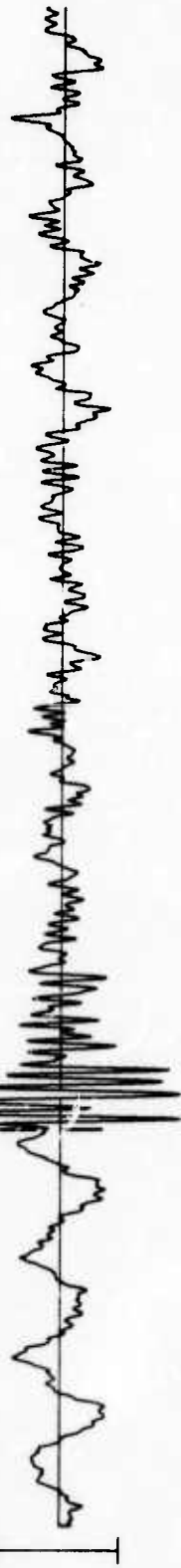


SPT
13.42 MU



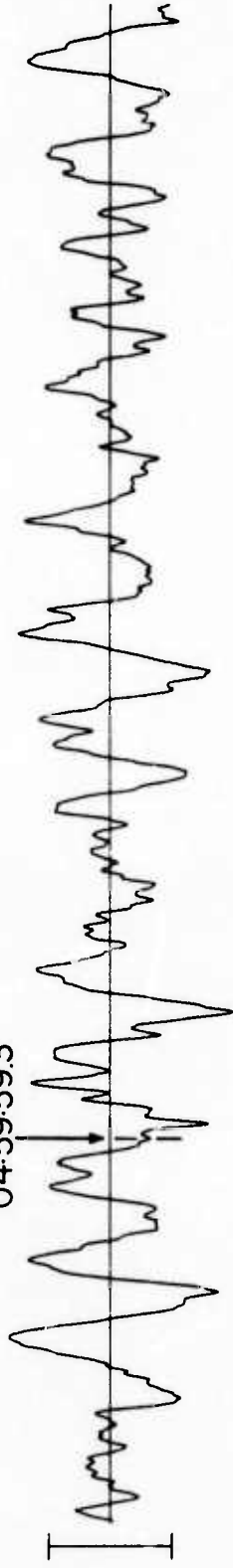
TIME

RK-ON 15 JAN 76
04:59:06.4



FN-WV 15 JAN 76

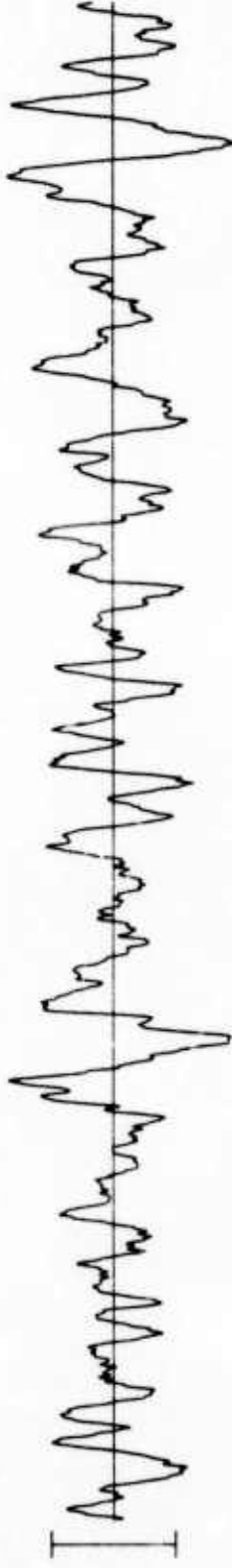
POSSIBLE "P"
04:59:59.3



SPZ
21.12 MU



SPR
18.15 MU



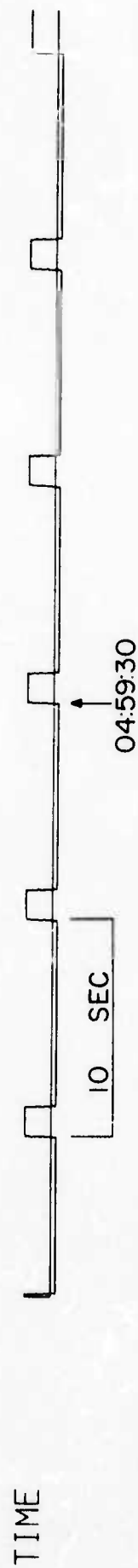
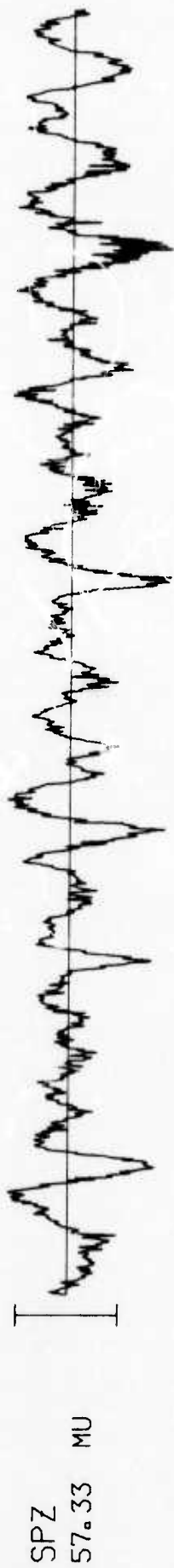
SPT
14.66 MU



TIME

05:00:20

HN-ME 15 JAN 76



CPSO 15 JAN 76

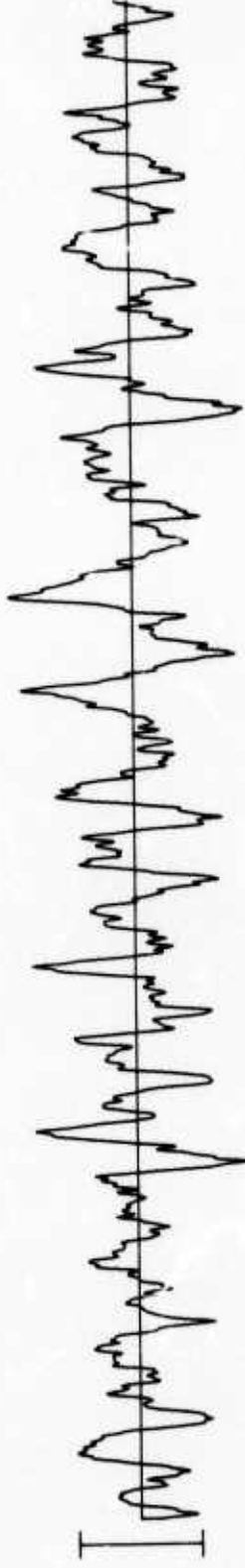
SPZ
30.13 MU



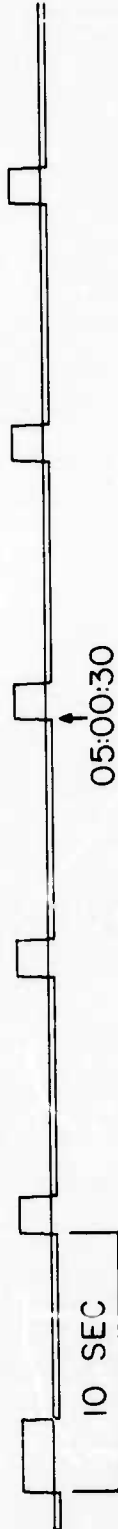
SPR
14.26 MU



SPT
9.78 MU



TIME

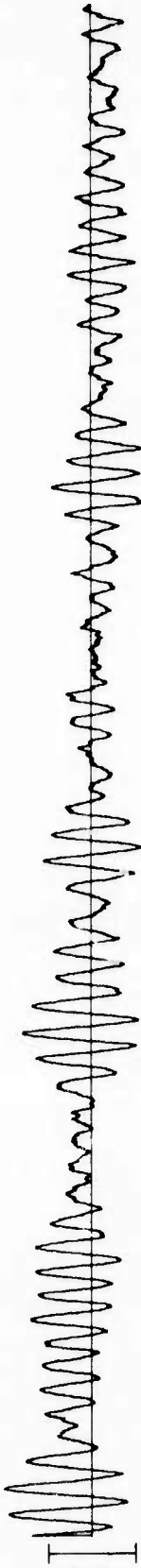


WH2YK 15 JAN 76



RK-ON 15 JAN 76

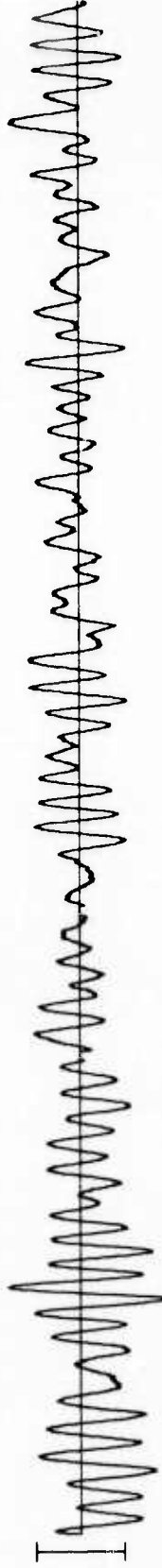
LPT
13059.34 MU



LPR
7071.13 MU



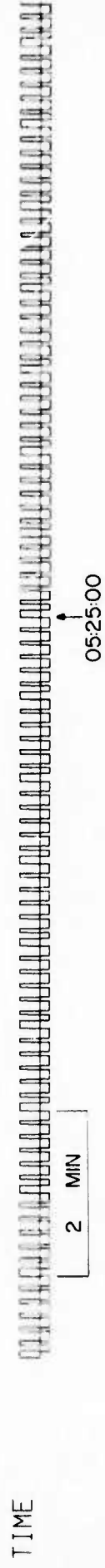
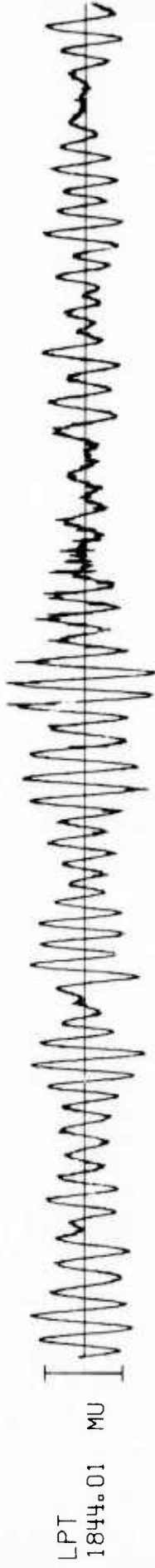
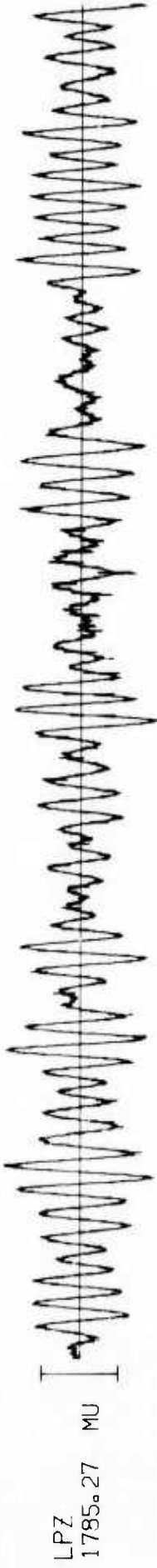
LPT
7840.58 MU



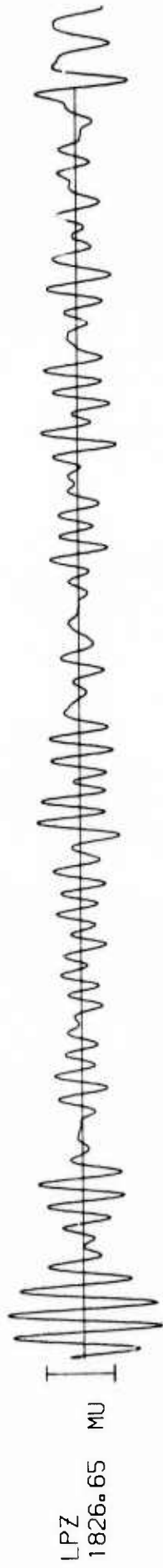
TIME



HN-ME 15 JAN 76



FN-WV 15 JAN 76



CPSO 15 JAN 76

