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14 SDCS-ER-76-108

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6 SPECIAL DATA COLLECTION SYSTEM EVENT REPORT, Northeastern China, 27 July 1976.

9 Technical rept.

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Teledyne Geotech, 314 Montgomery Street, Alexandria, Virginia 22314

11 Nov 1977

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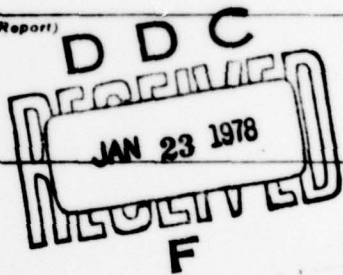
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SDCS EVENT REPORT NO. 108

Northeastern China, 27 July 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 provided.

	"P" Arrival	Origin Time	Lat.	Long.	m_b	M_s
NORSAR	19:53:24.5	19:42:53.0	39.9N	119.8E	6.5	N/A
Hagfors	19:53:19.5	19:43:15.0	42.0N	114.0E	5.8	N/A

Using SDCS stations, LASA and NORSAR, the epicenter location and magnitudes become: *Origin time--* 19:42:48.9, *Latitude--* 38.8N, *Longitude--* 117.6E, *and m_b sub b--* 6.6, N/A

All SDCS stations were operational during this period.

Due to a bad memory unit in the digital system, data for HN-ME was retrieved from the back-up analog system. All other SDCS data were retrieved from the digital field tapes. Information for LASA is reported from their Teleseism Event Report. NORSAR and Hagfors data are from their bulletins. Array trace presentations for LASA and NORSAR were unobtainable.

Short period signals associated with this event were recorded at all SDCS stations, LASA, and NORSAR. Horizontal channels at all SDCS stations were rotated.

Long-period signals at all SDCS stations were clipped. Long-period data from LASA and NORSAR were unobtainable.

Due to the emergent nature of this event it was felt that a conventional pick for short-period amplitude and period would not be representative of the true magnitude. Therefore, two picks were made from SDCS data and are marked accordingly on the plots. This report contains two Data Summaries corresponding to these separate picks.

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

ACCESSION for	
NTIS	White Section <input checked="" type="checkbox"/>
DDC	B If Section <input type="checkbox"/>
MANAGING	<input type="checkbox"/>
DISPATCHED BY: []	
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STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES		ELEVATION METERS	INSTRUMENTATION	
		DEG	MN SECS		SHORT-PERIOD	LONG-PERIOD
CPSO	McMinville, 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	KS36000	KS36000
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

1

DATA SUMMARY

27 JUL 76 Northeastern China

STA.	PHASE	ARRIVAL		INST	PER	A/T	MAGNITUDE		DIR	DIST
		TIME					MB	MS		
NAO	EP	19 53	24.5	AB	99.9	9999.				64.3
WH2YK	EP	19 53	27.1	SPZ	1.1	74.	5.57			64.6
LAO	EP	19 55	31.7	SAB	99.9	9999.				
RK-ON	EP	19 55	30.5	SPZ	0.8	14.	4.79			86.5
HN-ME	EP	19 56	14.2	SPZ	0.9	127.	6.02			95.1
FN-WV*	EP	19 56	36.3	SPZ	0.9	8.	4.93			101.3
CPO *	EP	19 56	49.7	SPZ	0.8	23.	5.54			102.8
	ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA			
	19:43:08.4	39.549N	117.637E	126. CALC	5.22	0.71	3			
	19:42:48.9	38.755N	117.622E	0. REST	5.46	0.62	3			

Signal arrivals at CPO(CPSO) and FN-WV were considered to be P diffracted and were therefore not used in the calculations for hypocenter determination and average MB.

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DATA SUMMARY

27 JUL 76 Northeastern China

STA.	PHASE	ARRIVAL		INST	PER	A/T	MAGNITUDE		DIR	DIST
		TIME					MB	MS		
NAO	EP	19 53	24.5	AB	1.1	1293.	6.81			64.3
WH2YK	EP	19 53	27.1	SPZ	1.0	670.	6.53			64.6
LAO	EP	19 55	31.7	SAB	99.9	9999.				
RK-ON	EP	19 55	30.5	SPZ	0.7	209.	5.97			86.5
HN-ME	EP	19 56	14.2	SPZ	1.2	1098.	6.95			95.1
FN-WV*	EP	19 56	36.3	SPZ	1.1	46.	5.69			101.3
CPO *	EP	19 56	49.7	SPZ	1.3	104.	6.20			102.8
	ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA			
	19:43:08.4	39.549N	117.637E	126. CALC	6.30	0.50	4			
	19:42:48.9	38.755N	117.622E	0. REST	6.56	0.44	4			

WH2YK 27 JUL 76

②

19:53:27.1

①

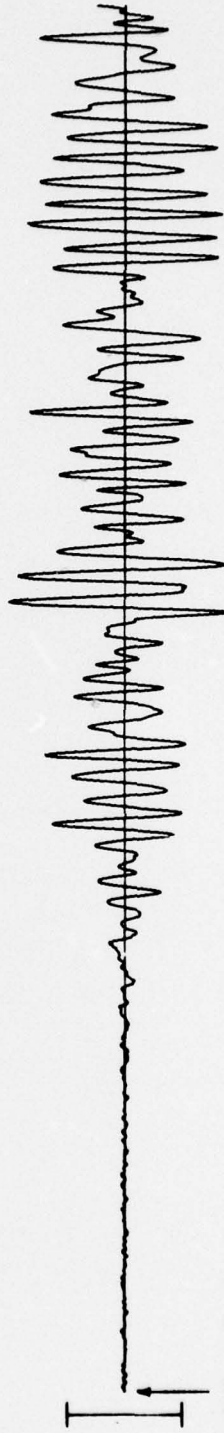
SPZ
396.00 MU



SPR
320.00 MU



SPT
203.00 MU



19:53:15.0

10 SEC.

RK-DN 27 JUL 76
19:55:30.5

②



SPZ
290.00 MU



SPR
104.00 MU



SPT
61.00 MU

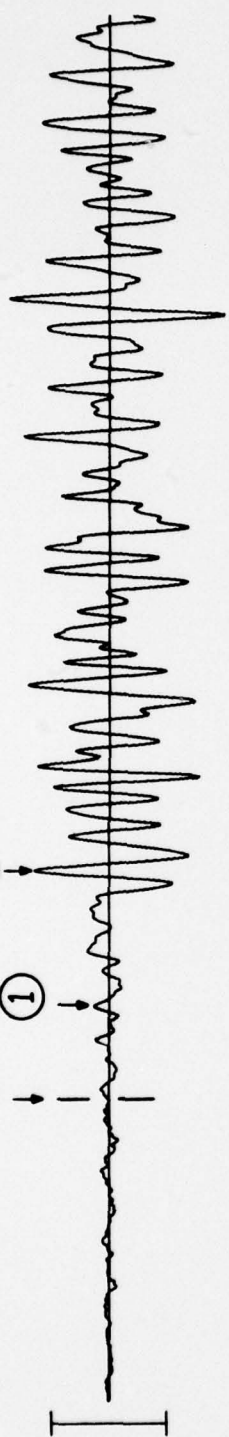
19:55:16.0 [10 SEC.]

HN-ME 27 JUL 76

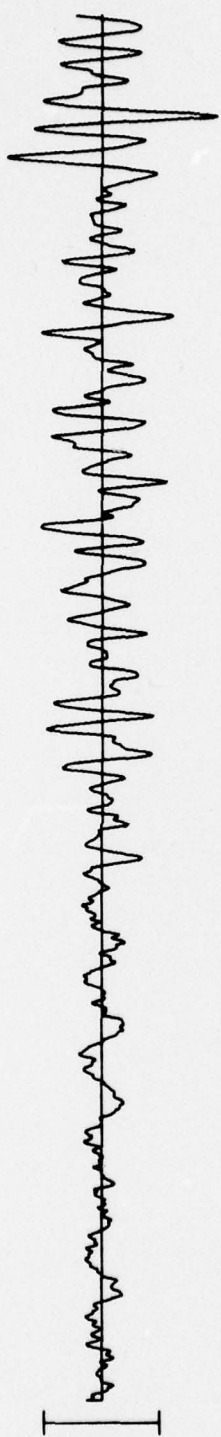
19:56:14.2

②

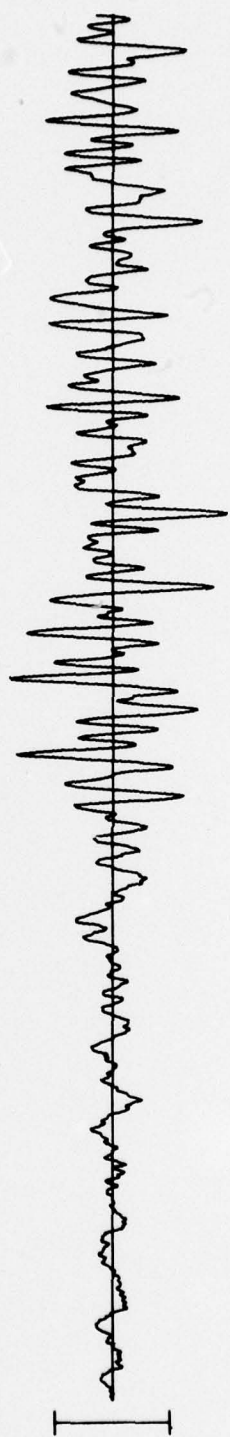
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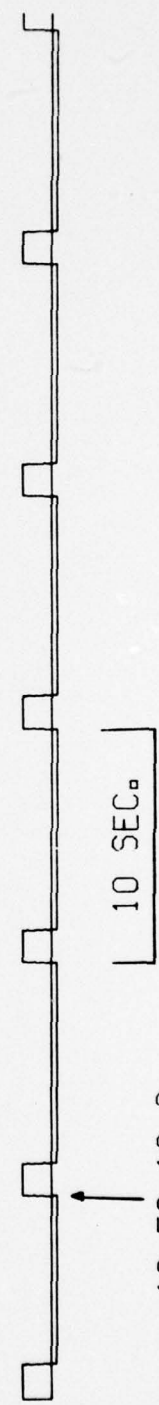
SPZ
677.84 MU



SPR
206.58 MU



SPT
255.16 MU

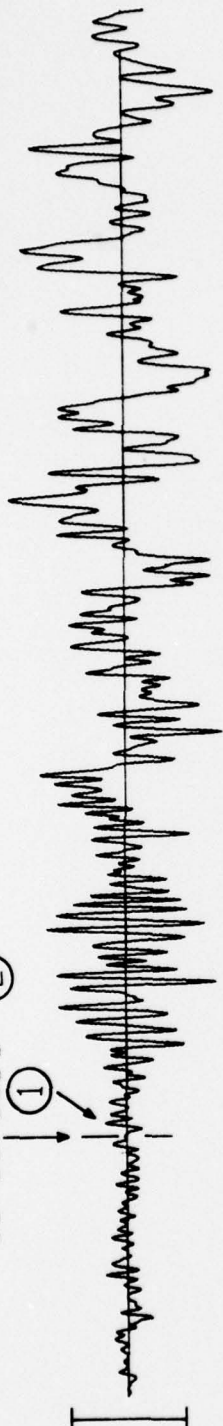


TIME

10 SEC.

19:56:10.0

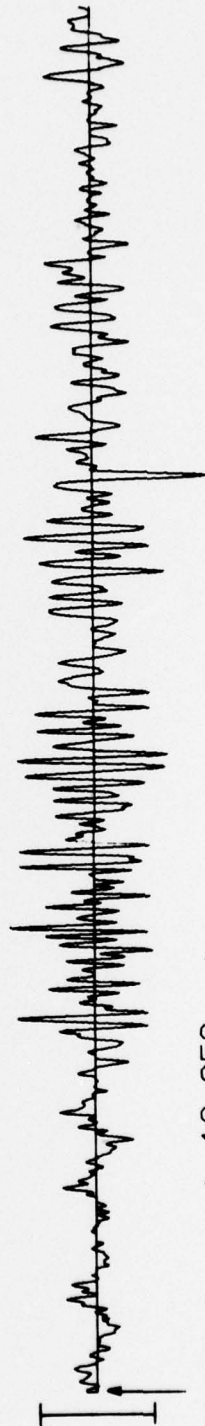
FN-WV 27 JUL 76
19:56:30.3 ②



SPZ
30.07 MU



SPR
28.06 MU



SPT
22.55 MU

19:56:23.0 | 10 SEC.

CPSO 27 JUL 76

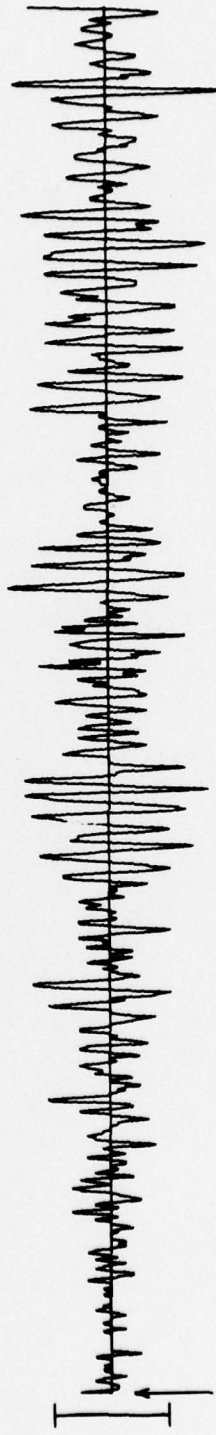
19:56:49.7 ②



SPZ
94.00 MU



SPR
33.00 MU



SPT
15.00 MU

19:56:41.0

10 SEC