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TELEDYNE GEOTECH ALEXANDRIA VA ALEXANDRIA LABS

SPECIAL DATA COLLECTION SYSTEM (SDCS) NTS EVENT

MAR 78 M S DAWKINS

SDCS-ER-76-125

F/G 8/11
'REDMUD', 08 DE--ETC(U)
F08606-78-C-0007

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**SPECIAL DATA COLLECTION SYSTEM (SDCS)
NTS Event "REDMUD", 08 December 1976**

Michael S. Dawkins

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March 1978

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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SDCS Event Report No. 125

NTS Event "REDMUD", 08 December 1976.

This -> The 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 | Latitude | Longitude | m _b | M _s |
|---------|-------------|-------------|----------|-----------|----------------|----------------|
| Hagfors | 15:01:11.1 | 14:49:16 | 36N | 121W | 5.1 | N/A |

All SDCS stations were operational during this time period, although only one, RK-ON recorded a useable signal. HN-ME short-period was negative and signals recorded at the NTS stations were clipped. Horizontal channels at RK-ON were rotated.

Long-period at HN-ME and RK-ON (the only two SDCS stations presently recording LP) was negative.

NORSAR data was unrecoverable from the SDAC/VELA Network detection processing system, and NORSAR has not yet resumed the publication of a bulletin.

LASA data was recoverable in both short-period and long-period modes, and positive signals were recorded.

Scaling factors on plots are millimicrons at 1 Hz for SP and 0.04 Hz for LP (not corrected for instrument response).

| ACCESSION for | |
|---------------------------------|---|
| NTIS | White Section <input checked="" type="checkbox"/> |
| DDC | Buff Section <input type="checkbox"/> |
| UNANNOUNCED | <input type="checkbox"/> |
| JUSTIFICATION | |
| BY | |
| DISTRIBUTION/AVAILABILITY CODES | |
| Dist. | |
| A | |

STATION DESCRIPTION

| SITE CODE | LOCATION | SITE COORDINATES DEG MN SECS | ELEVATION METERS | INSTRUMENTATION | |
|--------------|----------------------|---------------------------------|---------------------|-----------------|--------------------|
| | | | | SHORT-PERIOD | LONG-PERIOD |
| HN-ME | Houlton, Maine | 46 09 43.0 N 067 59 09.0 W | 213 | KS36000 | KS36000 |
| RK-ON | Red Lake, Ontario | 50 50 20.0 N 093 40 20.0 W | 366 | 18300 | SL210 V SL220 H |
| OB2NV | Nevada Test Site | 37 13 31.0 N 116 03 28.0 W | | 18300 | N/A |
| NT-NV | Nevada Test Site | 31 16 33.0 N 116 25 06.0 W | | 18300 | N/A |
| NT2NV | Nevada Test Site | 37 15 16.0 N 116 18 13.0 W | | 18300 | N/A |
| LASA | Billings, Montana | 46 41 19.0 N 106 13 20.0 W | 744 | HS10 | 7505A V 8700C H |
| NORSAR | Kjeller, Norway | 60 49 25.4 N 010 49 56.5 E | 379 | HS10 | 7505A V 8700C H |

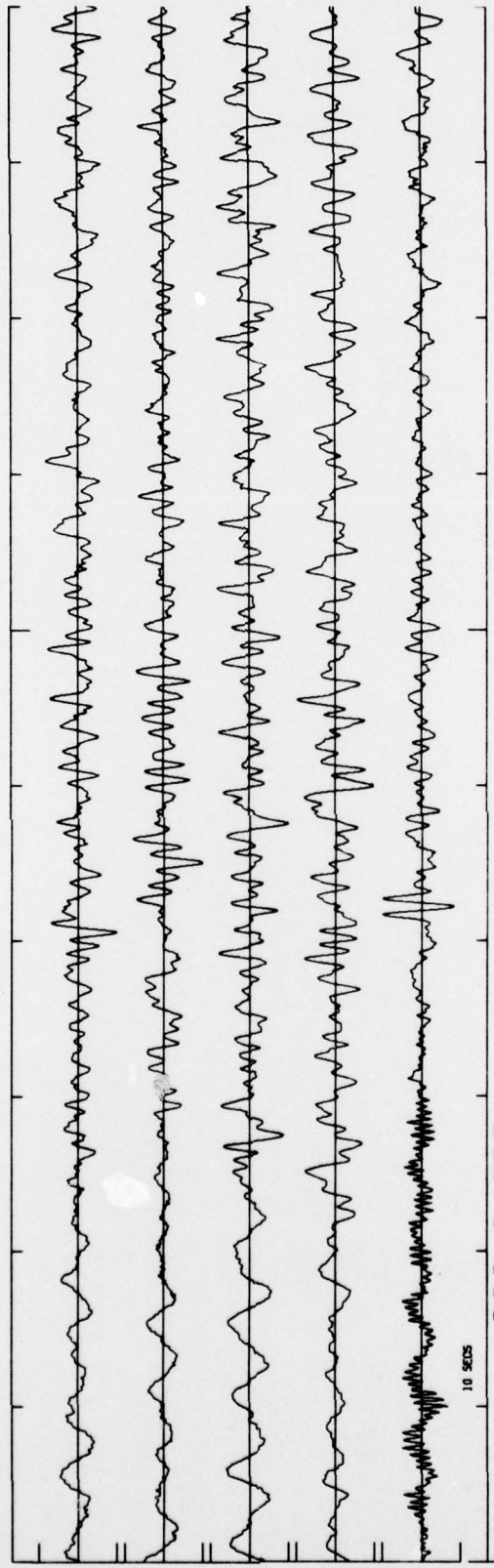
PREDA -- TRAVEL TIME PREDICTIONS --

08DEC INPUT FOR EVENT 8 DEC 76
 14:49:30.0 37.000N 116.000W 0KM.

| STA. | TIME | SURF(OKM.) | | DIST | | AZI | |
|---------|------------|-------------|-------|-----------|---------|---------|--|
| | | TRAV.TIME | DEG. | KM. | EVT-STA | STA-EVT | |
| OB2NV P | 14 49 34.3 | 0:04.3 | 0.23 | 25.4909 | 348.443 | 168.408 | |
| OB3NV P | 14 49 34.4 | 0:04.4 | 0.24 | 26.2509 | 349.440 | 169.408 | |
| NT2NV P | 14 49 36.4 | 0:06.4 | 0.34 | 37.8929 | 317.990 | 137.818 | |
| NT-NV P | 14 49 38.1 | 0:08.1 | 0.43 | 48.1569 | 309.600 | 129.348 | |
| LAO P | 14 52 22.8 | 2:52.8 | 12.11 | 1346.3806 | 33.872 | 220.403 | |
| RK-ON P | 14 54 15.4 | 4:45.4 | 21.10 | 2346.6204 | 41.990 | 237.640 | |
| HN-ME P | 14 56 36.8 | 7:06.8 | 36.58 | 4067.1921 | 60.108 | 273.026 | |
| NAO P | 15 01 02.3 | 11:32.3 | 73.31 | 8151.6133 | 24.170 | 318.013 | |
| HFS P | 15 01 10.7 | 11:40.7 | 74.76 | 8312.8984 | 23.524 | 320.323 | |

67 HERRIN TRAVEL TIME TABLES

| SURF | | | |
|------|----|---|---|
| 0 | . | 2 | |
| 0 | . | 0 | |
| 0 | 4. | 2 | 1 |
| . | . | . | . |
| 0 | 0. | 0 | 0 |
| 0 | . | 0 | |
| 0 | . | 0 | |



LA010SH01UJZ
 2.1 M (DEPTH)
 (CR # 11)

LA010SH01UJZ
 2.1 M (DEPTH)
 (CR # 10)

LA010SH02UJZ
 2.0 M (DEPTH)
 (CR # 11)

LA010SH03UJZ
 2.7 M (DEPTH)
 (CR # 12)

LA010SH04UJZ
 2.4 M (DEPTH)
 (CR # 13)



1976
 203/18/25:0.0

LASA SHORT

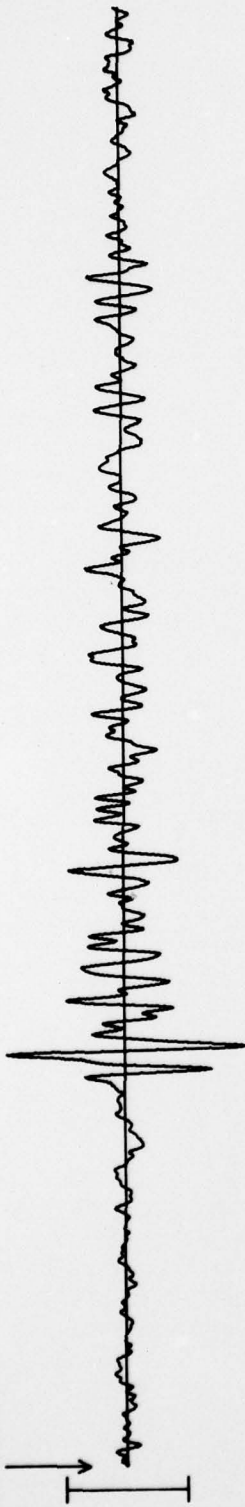
PERIOD SUBARRAYS

08 DEC 76

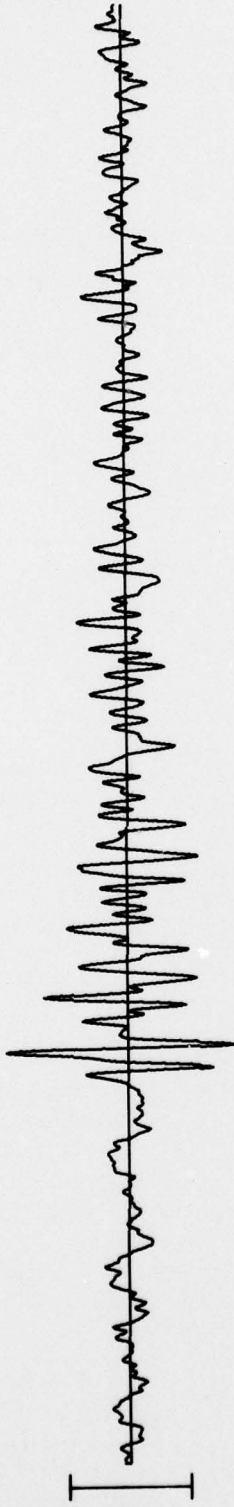
TIME 5.0 SECONDS

RK-ON 08 DEC 76

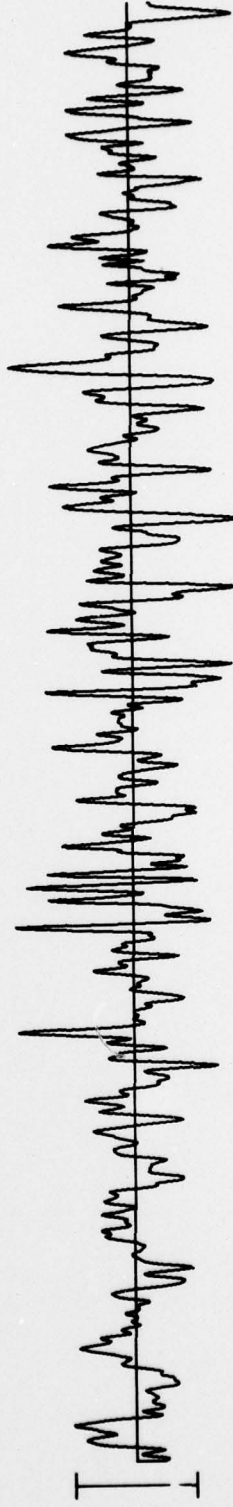
14:54:00.0



SPZ
65.05 MU



SPR
46.86 MU

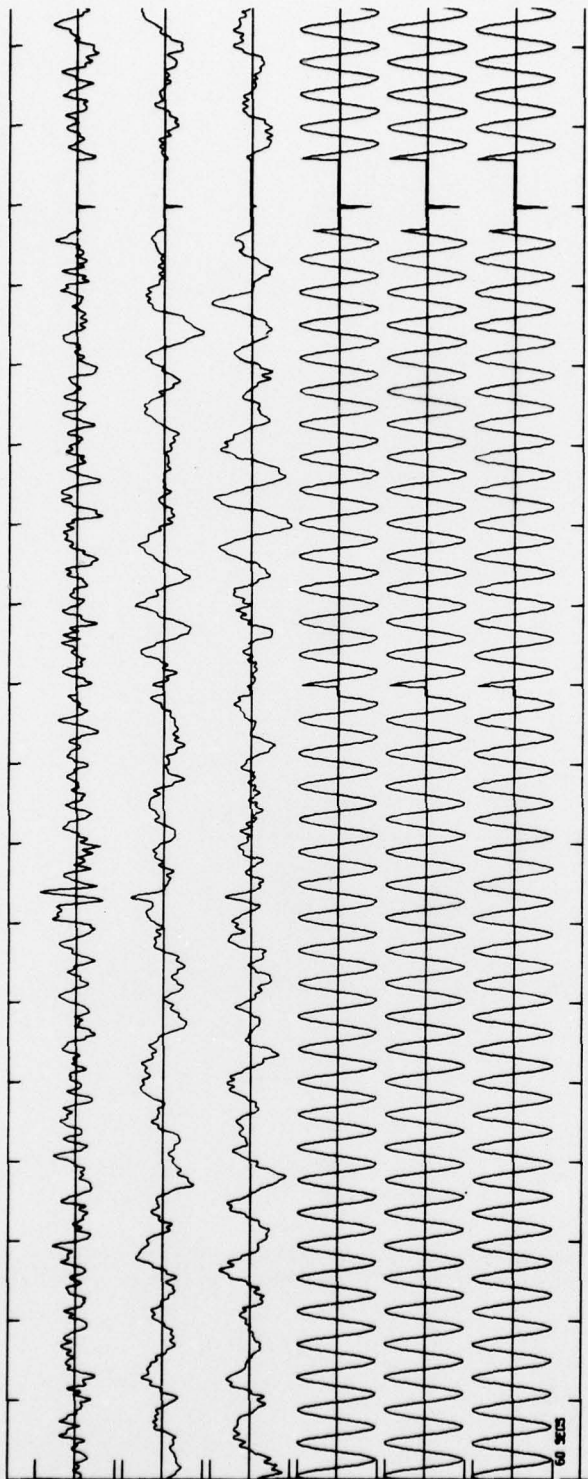


SPT
15.05 MU



SPZLO
72.03 MU

10 SEC



ROLPZ
200.5 IN/UNIT
(1.5 UP 1)

ROLPN
200.5 IN/UNIT
(1.5 UP 2)

ROLPE
200.5 IN/UNIT
(1.5 UP 3)

DOLPZ
200.5 IN/UNIT
(1.5 UP 1)

DOLPN
200.5 IN/UNIT
(1.5 UP 2)

DOLPE
200.5 IN/UNIT
(1.5 UP 3)



1976

TIME 50.0 SEC/UNIT

LASA 08 DEC 76