

SDCS-ER-77-134

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**SPECIAL DATA COLLECTION SYSTEM (SDCS)  
NTS Event "MARSILLY", 05 April 1977**

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**December 1978**

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|--|-----------------------|---|
| 1. REPORT NUMBER<br><b>14</b> SDCS-ER-77-134   | 2. GOVT ACCESSION NO. | 3. RECIPIENT'S CATALOG NUMBER   |
| 4. TITLE (and Subtitle)<br><b>6</b> SPECIAL DATA COLLECTION SYSTEM (SDCS)<br>NTS Event 'MARSILLY', 05 April 1977.  | <b>9</b>              | 5. TYPE OF REPORT & PERIOD COVERED<br>Technical <i>rept.</i>  |
| 7. AUTHOR(s)<br><b>10</b> G. R. Naylor & M. S. Dawkins   | <b>15</b>             | 6. PERFORMING ORG. REPORT NUMBER<br>8. CONTRACT OR GRANT NUMBER(s)<br>F08606-78-C-0007<br>✓ <i>WARPA Order-2551</i> |
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS<br>Teledyne Geotech<br>314 Montgomery Street<br>Alexandria, Virginia 22314   |                       | 10. PROGRAM ELEMENT, PROJECT, TASK<br>AREA & WORK UNIT NUMBERS<br>VT/8709   |
| 11. CONTROLLING OFFICE NAME AND ADDRESS<br>VELA Seismological Center<br>312 Montgomery Street<br>Alexandria, Virginia 22314  | <b>11</b>             | 12. REPORT DATE<br>18 Dec 1978  |
| 14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)<br>Defense Advanced Research Projects Agency<br>Nuclear Monitoring Reserach Office<br>1400 Wilson Blvd., Arlington, Virginia 22209 |                       | 13. NUMBER OF PAGES<br>8  |
|  |                       | 15. SECURITY CLASS. (of this report)  |
|  |                       | 15a. DECLASSIFICATION/DOWNGRADING<br>SCHEDULE   |
| 16. DISTRIBUTION STATEMENT (of this Report)<br><br>APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. <b>12</b> [9p.]  |                       |   |
| 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)   |                       |   |
| 18. SUPPLEMENTARY NOTES  |                       |   |
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SDAC Event Report No. 134

NTS Event "MARSILLY", 05 April 1977

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                             | Latitude | Longitude | $m_b$ | $M_s$ |
|-----------|------------------------|---|----------|-----------|-------|-------|
| LASA      | 15:02:53.1             | Origin time and location not published. |          |           | 6.0   | N/A   |
| NORSAR    | No bulletin published. |   |          |           |       |       |
| Hagfors   | Negative               |   |          |           |       |       |
| SDAC/VELA |                        | 15:00:02.0                              | 37.1M    | 115.8W    | 5.6   | N/A   |

All SDCS stations were operational during this time period. RK-ON data were retrieved from the digital field tapes, and HN-ME data are from the analog back-up system. Both stations recorded positive short- and long-period signals. Horizontal channels were rotated. OB2NV clipped, and the other Nevada stations were in the process of moving to a new site.

There were no tapes recorded from the SDAC/VELA detection processor for this time period; therefore, no waveforms are available from LASA or NORSAR.

LASA data are reported from the LASA Data Center Teleseismic Report; SDAC/VELA data are from their summary.

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                            | Write Section <input checked="" type="checkbox"/> |
| DDC                             | Buff Section <input type="checkbox"/>             |
| UNANNOUNCED                     | <input type="checkbox"/>                          |
| JUSTIFICATION                   |   |
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STATION DESCRIPTION

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

PREDA -- TRAVEL TIME PREDICTIONS --

05APR INPUT FOR EVENT 5 APR 77  
 15:00:00.0 37.000N 116.000W 0KM.

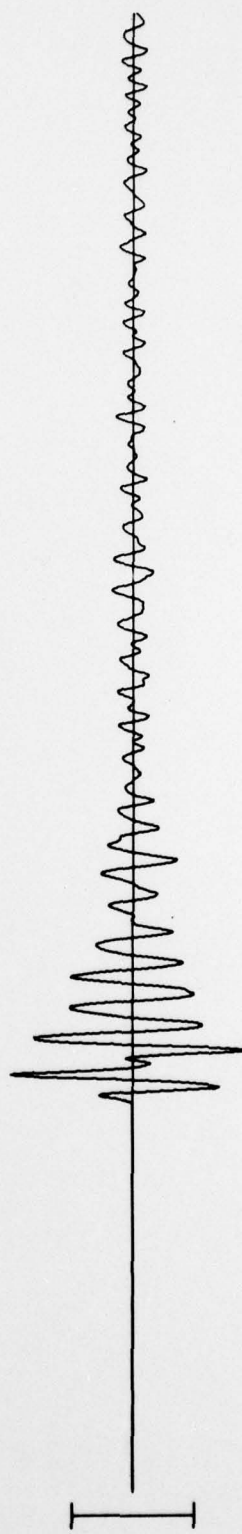
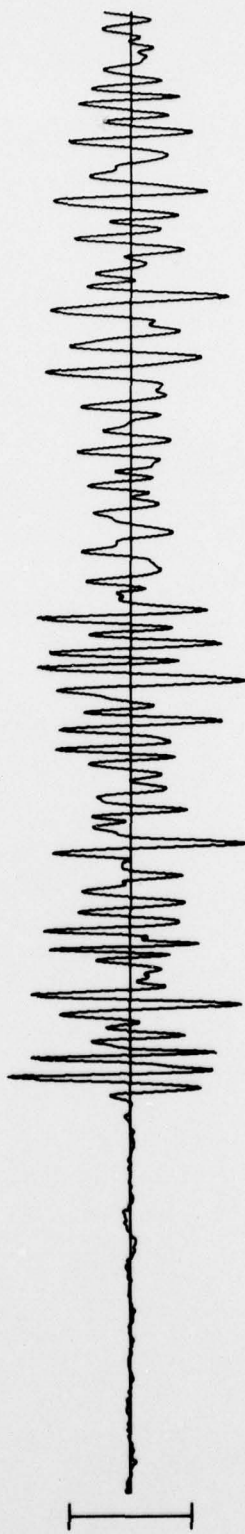
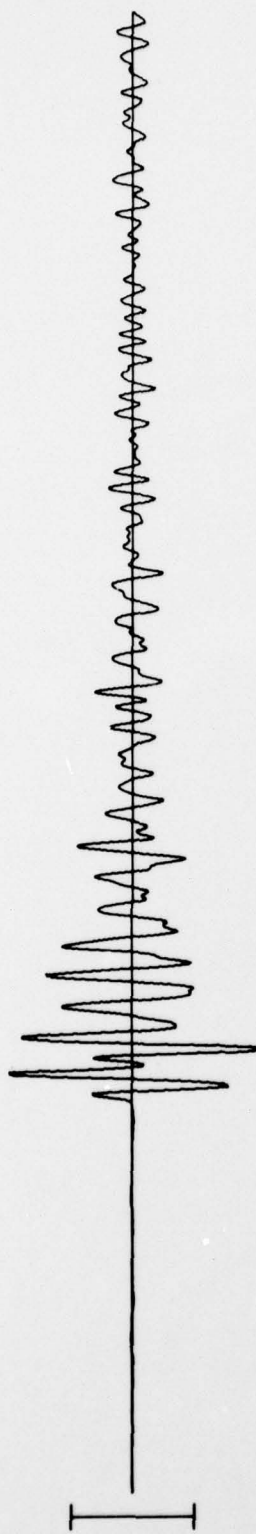
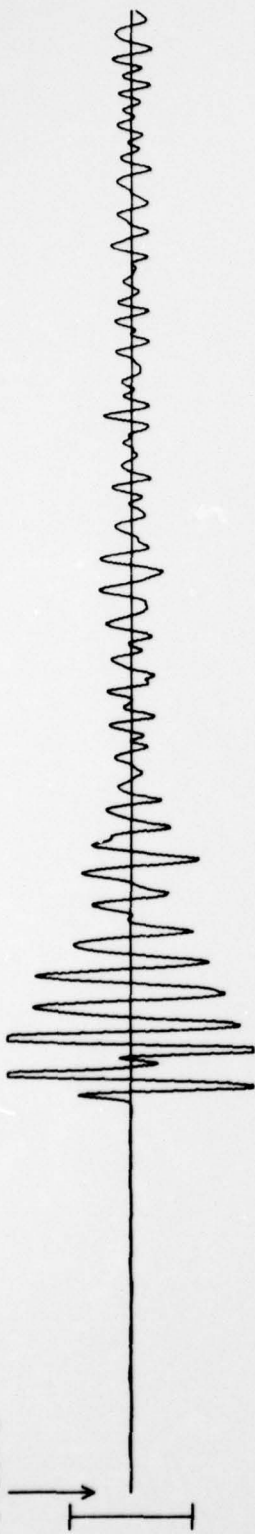
| STA.    | TIME       | SURF( CKM.) |       | DIST      |         | AZI     |  |
|---------|------------|-------------|-------|-----------|---------|---------|--|
|         |            | TRAV.TIME   | DEG.  | KM.       | EVT-STA | STA-EVT |  |
| OB2NV P | 15 00 04.3 | 0:04.3      | 0.23  | 25.4909   | 348.443 | 168.408 |  |
| LAO P   | 15 02 52.8 | 2:52.8      | 12.11 | 1346.3806 | 33.872  | 220.403 |  |
| RK-ON P | 15 04 45.4 | 4:45.4      | 21.10 | 2346.6204 | 41.990  | 237.640 |  |
| HN-ME P | 15 07 06.8 | 7:06.8      | 36.58 | 4067.1921 | 60.108  | 273.026 |  |
| NAO P   | 15 11 32.3 | 11:32.3     | 73.31 | 8151.6133 | 24.170  | 318.013 |  |
| HFS P   | 15 11 40.7 | 11:40.7     | 74.76 | 8312.8984 | 23.524  | 320.323 |  |

67 HERRIN TRAVEL TIME TABLES

| SURF |    |   |   |
|------|----|---|---|
| 0    | .  | 2 |   |
| 0    | .  | 0 |   |
| 0    | 1. | 2 | 1 |
| .    | .  | . | . |
| 0    | 0. | 0 | 0 |
| C    | .  | 0 |   |
| 0    | .  | 0 |   |

RK-QN 05 APR 77

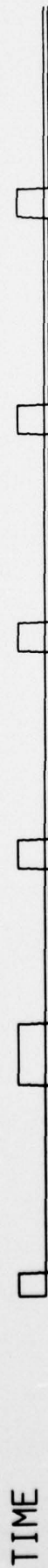
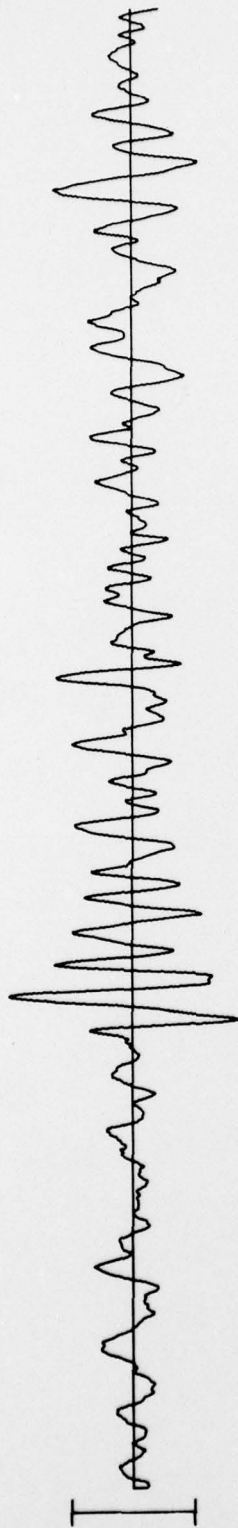
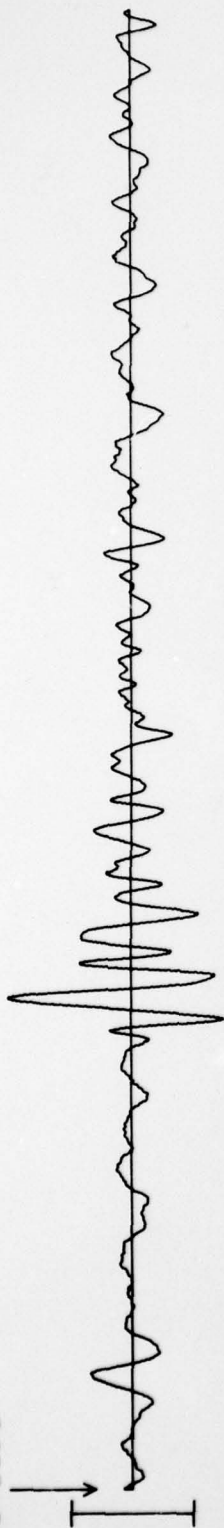
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10 SEC

HN-ME 05 APR 77

15:06:50.0

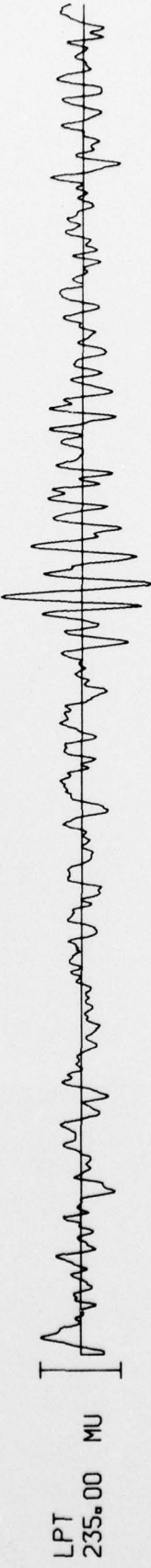
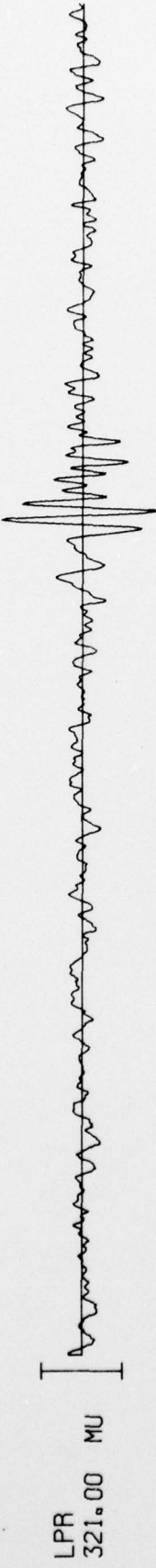


10 SEC



RK-DN 05 APR 77

15:07:00



HN-ME 05 APR 77

15:13:00.0

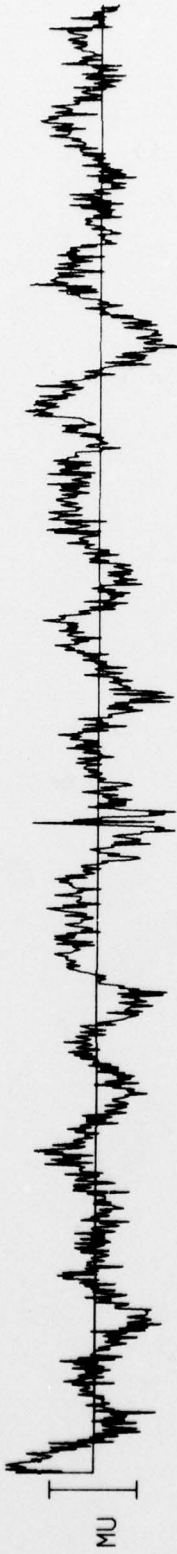
LPZ  
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LPR  
99.55



LPTLO  
138.24



120 SEC