SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
Southern Iran, 7 March 1975

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September 1975

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**REPORT DOCUMENTATION PAGE**

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**KEY WORDS**

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**ABSTRACT**

(Continue on reverse side if necessary and identify by block number)
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:

<table>
<thead>
<tr>
<th>Origin Time</th>
<th>Latitude</th>
<th>Longitude</th>
<th>mb</th>
<th>Ms</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORSAR</td>
<td>07:04:36</td>
<td>26.6N</td>
<td>056.7E</td>
<td>5.8</td>
</tr>
<tr>
<td>LASA</td>
<td>07:05:20</td>
<td>34.3N</td>
<td>051.2E</td>
<td>5.8</td>
</tr>
<tr>
<td>PDE</td>
<td>07:04:43</td>
<td>27.5N</td>
<td>056.3E</td>
<td>5.8</td>
</tr>
<tr>
<td>Hagfors Array, Sweden</td>
<td>07:04:16</td>
<td>24 N</td>
<td>057 E</td>
<td>6.2</td>
</tr>
</tbody>
</table>

Source parameters, other than magnitudes ($m_b = 6.2$, $M_s = 5.4$), were not calculated for the SDCS and Arrays due to limited data.

FN-WV and CPSO were not operational for this event.

Short-period signals associated with this event were recorded at RK-ON, WH2YK, LASA and NORSAR. The signal was not observed at HN-ME due to low magnetic tape input levels. An unresolved time correction at RK-ON precluded determination of a hypocenter.

Long-period signals were recorded at RK-ON, WH2YK and HN-ME. The LPT channel at HN-ME was inoperative. Array long-period data was unrecoverable.

FN-WV, RK-ON, WH2YK, and HN-ME horizontal instruments are oriented radial and transverse to the Nevada Test Site. CPSO is oriented N-S and E-W. LASA, NORSAR, and ALPA beams have been rotated to radial and transverse with respect to the event location.

Scaling factors on plots are millimicrons at 1 Hz (not correct for instrument response) with the exception of LASA and NORSAR short-period plots. LASA SP scaling factors are millimicrons per inch. Scaling factors are not reported for NORSAR short-period.
<table>
<thead>
<tr>
<th>SITE CODE</th>
<th>LOCATION</th>
<th>SITE COORDINATES</th>
<th>ELEVATION METERS</th>
<th>INSTRUMENTATION SHORT-PERIOD</th>
<th>INSTRUMENTATION LONG-PERIOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALPA</td>
<td>Alaska</td>
<td>65 14 00.0 N&lt;br&gt;147 44 36.0 W</td>
<td>626</td>
<td>None</td>
<td>31300</td>
</tr>
<tr>
<td>CPSO</td>
<td>McMinnville, Tennessee</td>
<td>35 35 41.4 N&lt;br&gt;085 34 13.5 W</td>
<td>574</td>
<td>6480 V</td>
<td>SL210 V&lt;br&gt;SL220 H</td>
</tr>
<tr>
<td>FN-WV</td>
<td>Franklin, West Virginia</td>
<td>38 32 58.0 N&lt;br&gt;079 30 47.0 W</td>
<td>910</td>
<td>KS36000</td>
<td>KS36000</td>
</tr>
<tr>
<td>LASA</td>
<td>Billings, Montana</td>
<td>46 41 19.0 N&lt;br&gt;106 13 20.0 W</td>
<td>744</td>
<td>HS10</td>
<td>7505A V&lt;br&gt;8700C H</td>
</tr>
<tr>
<td>HN-ME</td>
<td>Houlton, Maine</td>
<td>46 09 43.0 N&lt;br&gt;067 59 09.0 W</td>
<td>213</td>
<td>18300</td>
<td>SL210 V&lt;br&gt;SL220 H</td>
</tr>
<tr>
<td>NORSAR</td>
<td>Kjeller, Norway</td>
<td>60 49 25.4 N&lt;br&gt;010 49 56.5 E</td>
<td>379</td>
<td>HS10</td>
<td>7505A V&lt;br&gt;8700C H</td>
</tr>
<tr>
<td>RK-ON</td>
<td>Red Lake, Ontario</td>
<td>50 50 20.0 N&lt;br&gt;093 40 20.0 W</td>
<td>366</td>
<td>18300</td>
<td>SL210 V&lt;br&gt;SL220 H</td>
</tr>
<tr>
<td>WH2YK</td>
<td>White Horse, Yukon</td>
<td>60 41 41.0 N&lt;br&gt;134 58 02.0 W</td>
<td>853</td>
<td>18300</td>
<td>SL210 V&lt;br&gt;SL220 H</td>
</tr>
</tbody>
</table>
DATA SUMMARY

<table>
<thead>
<tr>
<th>Sta.</th>
<th>Phase</th>
<th>Arrival Time</th>
<th>Inst.</th>
<th>Per</th>
<th>A/T</th>
<th>Magnitude</th>
<th>Distf</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAO</td>
<td>EP</td>
<td>07:12:56.5</td>
<td>AB</td>
<td>1.2</td>
<td>388.6</td>
<td>6.01</td>
<td>45.2</td>
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<tr>
<td>HN-ME</td>
<td>LR</td>
<td>07:59:07</td>
<td>LPZ</td>
<td>23.0</td>
<td>275.1</td>
<td>5.52</td>
<td>91.0</td>
</tr>
<tr>
<td>WH2YK</td>
<td>EP</td>
<td>07:17:48.5</td>
<td>SPZ</td>
<td>1.2</td>
<td>80.2</td>
<td>5.70</td>
<td>91.6</td>
</tr>
<tr>
<td>LQ</td>
<td></td>
<td>07:58:36</td>
<td>LPT</td>
<td>26.0</td>
<td>Clipped</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LR</td>
<td></td>
<td>08:07:13</td>
<td>LPZ</td>
<td>20.0</td>
<td>29.3</td>
<td>4.55</td>
<td></td>
</tr>
<tr>
<td>RK-ON</td>
<td>EP</td>
<td>07:30:46.4**</td>
<td>SPZ</td>
<td>1.5</td>
<td>50.0</td>
<td>6.86</td>
<td>97.6</td>
</tr>
<tr>
<td>LR</td>
<td></td>
<td>08:19:35 **</td>
<td>LPZ</td>
<td>22.0</td>
<td>236.4</td>
<td>5.87</td>
<td></td>
</tr>
<tr>
<td>LAO</td>
<td>EP</td>
<td>07:18:47.6</td>
<td>AB</td>
<td>1.3</td>
<td>52.8</td>
<td>6.07</td>
<td>104.5</td>
</tr>
</tbody>
</table>

Average $m_b = 6.16$ (4 stations)
Average $M_s = 5.38$ (3 stations)

* Distance calculated from PDE location.
**Time correction approximately -13 minutes.
RK-ON 7 MAR 75

SPZ
19.68 Mμ

SPR
8.49 Mμ

SPT
21.78 Mμ

TIME

10 SEC

07:30:50

(-13 MINUTE TIME CORRECTION)
NORSAR EVENT FILE  1975 MAR 7

EPX NO. 91160  ARR. 7.12.58.1  26.6N  56.7E  5.7MB  33KM

DIST = 46.0  AZI = 116.9  AMP = 137.6  PER = 1.2  UMF  2

--- = 5 SECONDS

AB

SAB

3B

SAB

1C

SAB

4C

SAB

13C