SAN NICOLAS ISLAND SURFACE RADIATION-METEOROLOGY DATA
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The following is a summary of the surface data collected by CSU on San Nicolas Island during the FIRE experiment from 30 June (Julian Day 181) through 19 July (Julian Day 200). The data are available in two formats; hard copy graphs, and processed data on floppy disk.

Table 1. Instrumentation Specifications

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Serial Number</th>
<th>Dome Type</th>
<th>Measurement Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyranometer</td>
<td>21568F3</td>
<td>WG7</td>
<td>.3 to 2.8μm</td>
</tr>
<tr>
<td>Pyranometer</td>
<td>21570F3</td>
<td>RG8</td>
<td>.7 to 2.8μm</td>
</tr>
<tr>
<td>Pyrgeometer</td>
<td>25690F3</td>
<td>silicon</td>
<td>4 to 50μm</td>
</tr>
<tr>
<td>Dome Thermistor</td>
<td></td>
<td></td>
<td>-10 C to +50 C</td>
</tr>
<tr>
<td>Sink Thermistor</td>
<td></td>
<td></td>
<td>-10 C to +50 C</td>
</tr>
<tr>
<td>Air Temperature</td>
<td></td>
<td></td>
<td>-33 C to +48 C</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td></td>
<td></td>
<td>12% to 100%</td>
</tr>
<tr>
<td>Wind Speed</td>
<td></td>
<td></td>
<td>0 to 60 Meters/sec</td>
</tr>
<tr>
<td>Wind Direction</td>
<td></td>
<td></td>
<td>0 to 356 Deg</td>
</tr>
</tbody>
</table>

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Figure 1: Map of San Nicolas Island, California. The island is approximately 16 km long and 5 km wide. The radiation/meteorological station was deployed at the calibration site (DSP site D) on the west side of Laser Bay. The station was 38 meters above sea level on a ridge approximately 400 meters South East of the Penn State surface instrumentation.

Figure 2: Schematic Diagram of Radiation/Meteorological station used on San Nicolas Island.
FOUR DAY DATA SAMPLE

FIRE - SNI - SURFACE WIND DATA
JD 186 - JULY 5, 1987

WIND SPEED (METERS/SECOND) - WIND DIRECTION (DEGREES)

FIRE - SNI - AIR TEMP & RELATIVE HUMIDITY
JD 186 - JULY 5, 1987

AIR TEMPERATURE (DEGREES CELSIUS) - RELATIVE HUMIDITY (PERCENT)

FIRE - SNI - DOWNWELLING SURFACE RADIATION
JD 186 - JULY 5, 1987

IRRADIANCE (WATTS PER METER SQUARED)

0.3 to 2.8 um — 0.7 to 2.8 um — 4 to 50 um —
FIRE - SNI - SURFACE WIND DATA
JD 187 - JULY 6, 1987

FIRE - SNI - AIR TEMP & RELATIVE HUMIDITY
JD 187 - JULY 6, 1987

FIRE - SNI - DOWNWELLING SURFACE RADIATION
JD 187 - JULY 6, 1987
FIRE - SNI - SURFACE WIND DATA
JD 188 - JULY 7, 1987

WIND SPEED (METERS/SECOND)  WIND DIRECTION

FIRE - SNI - AIR TEMP & RELATIVE HUMIDITY
JD 188 - JULY 7, 1987

AIR TEMPERATURE (DEGREES CELSIUS)  RELATIVE HUMIDITY (PERCENT)

FIRE - SNI - DOWNWELLING SURFACE RADIATION
JD 188 - JULY 7, 1987

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