Flight Number: 00-142

Calendar/Julian Date: 03 August 2000 • 216

Sensor Package: Dual Wild Heerbrugg RC-10
Modis Airborne Simulator (MAS)
Cloud Lidar System (CLS)
Airborne Multi-angle SpectroRadiometer (AirMISR)
Measurements of Pollutants in the Troposphere -
Airborne Simulator (MOPPIT-A)
Solar Spectral Flux Radiometer (SSRF)
Scanning High-Resolution Interferometer Sounder (S-HIS)
Leonardo Airborne Simulator (LAS)

Area(s) Covered: Sierra Nevada/Mono Lake

Investigator(s): SAFARI Functional Check Flight

Aircraft #: 809

SENSOR DATA

<table>
<thead>
<tr>
<th>Accession #:</th>
<th>05528</th>
<th>05529</th>
<th>-----</th>
<th>-----</th>
<th>-----</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor ID #:</td>
<td>026</td>
<td>034</td>
<td>108</td>
<td>120</td>
<td>113</td>
</tr>
<tr>
<td>Sensor Type:</td>
<td>RC-10</td>
<td>RC-10</td>
<td>MAS50</td>
<td>AirMISR</td>
<td>CLS</td>
</tr>
<tr>
<td>Focal Length:</td>
<td>12&quot;</td>
<td>12&quot;</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td></td>
<td>304.97 mm</td>
<td>304.66 mm</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Film Type:</td>
<td>Panatomic X</td>
<td>Aerochrome IR</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td></td>
<td>Aerographic II</td>
<td>SO-134</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td></td>
<td>EK2412</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filtration:</td>
<td>Wratten 12</td>
<td>Wratten 12</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Spectral Band:</td>
<td>510-700nm</td>
<td>510-900nm</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>f Stop:</td>
<td>11</td>
<td>11</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Shutter Speed:</td>
<td>1/325</td>
<td>1/200</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td># of Frames:</td>
<td>28</td>
<td>28</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>% Overlap:</td>
<td>60</td>
<td>60</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Quality:</td>
<td>Excellent</td>
<td>Excellent</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td>Subtract 7 seconds for correct UTC</td>
<td>Subtract 1 second for correct UTC</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## SENSOR DATA

<table>
<thead>
<tr>
<th>Accession #:</th>
<th>-----</th>
<th>-----</th>
<th>-----</th>
<th>-----</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor ID #:</td>
<td>129</td>
<td>131</td>
<td>083</td>
<td>130</td>
</tr>
<tr>
<td>Sensor Type:</td>
<td>MOPPIT-A</td>
<td>SSFR</td>
<td>S-HIS</td>
<td>LAS</td>
</tr>
<tr>
<td>Focal Length:</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Film Type:</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Filtration:</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Spectral Band:</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>f Stop:</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Shutter Speed:</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td># of Frames:</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>% Overlap:</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
</tbody>
</table>

**Quality:**

**Remarks:**
**CAMERA FLIGHT LINE DATA**

**FLIGHT NO. 00-142**

<table>
<thead>
<tr>
<th>Accession #</th>
<th>05528</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor #</td>
<td>026</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Check Points</th>
<th>Frame Numbers</th>
<th>Time (UTC-hr, min, sec)</th>
<th>Altitude, MSL feet/meters</th>
<th>Cloud Cover/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - B</td>
<td>2529-2556</td>
<td>18:06:14</td>
<td>18:18:37</td>
<td>65500/19970</td>
</tr>
</tbody>
</table>

Date and flight number incorrect in camera data block
## CAMERA FLIGHT LINE DATA
### FLIGHT NO. 00-142

**Accession #** 05529  
**Sensor #** 034

<table>
<thead>
<tr>
<th>Check Points</th>
<th>Frame Numbers</th>
<th>Time (UTC-hr, min, sec)</th>
<th>Altitude, MSL feet/ meters</th>
<th>Cloud Cover/ Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - B</td>
<td>3786-3813</td>
<td>18:06:09 / 18:18:32</td>
<td>65500/19970</td>
<td>100% cumulus, frames 3786-3795; 30-80% cumulus, frames 3796-3086; 10% cumulus, frames 3807-3808 and 3813</td>
</tr>
</tbody>
</table>

*Date and flight number incorrect in camera data block*
MODIS AIRBORNE SIMULATOR (MAS) FLIGHT LINE INFORMATION FOR 03 Aug 2000  FLIGHT 00-142

| LINE | TIME   | LAT     | LON     | SOLAR | START  | TIME   | LAT     | LON     | SOLAR | SCAN  |
|------|--------|---------|---------|-------|--------|--------|---------|---------|-------|-------|-------|
|      | HH:MM:SS | DEG   | DEG   | ZEN   | AZIM   | DEG   | DEG   | ZEN   | AZIM   | LINES |
| 1    | 17:46:18 | 35.991 | -116.785 | 77.3  | 282.2  | 4.08  | 17:50:33 | 36.005 | -116.785 | 77.3  | 282.2  | 1591  |
| 2    | 17:51:38 | 36.570 | -116.863 | 78.2  | 282.8  | 300.52 | 17:59:48 | 36.577 | -116.880 | 78.2  | 282.8  | 3058  |
| 3    | 18:00:11 | 36.894 | -118.052 | 79.8  | 284.0  | 313.33 | 18:26:55 | 36.904 | -118.065 | 79.8  | 284.0  | 10000 |
| 4    | 18:26:55 | 39.333 | -120.462 | 84.2  | 287.6  | 323.70 | 18:30:30 | 39.345 | -120.474 | 84.2  | 287.6  | 1340  |
| 5    | 18:31:10 | 39.694 | -120.880 | 84.8  | 288.2  | 283.96 | 18:34:28 | 39.697 | -120.900 | 84.8  | 288.2  | 1236  |
| 6    | 18:35:49 | 39.609 | -121.525 | 85.7  | 288.9  | 192.13 | 18:42:24 | 39.594 | -121.528 | 85.7  | 288.9  | 2466  |
| 7    | 18:45:35 | 38.870 | -121.833 | 87.8  | 290.5  | 6.93   | 18:52:00 | 38.885 | -121.831 | 87.8  | 290.5  | 2407  |
| 8    | 18:53:10 | 39.683 | -121.708 | 88.9  | 291.6  | 73.90  | 18:57:46 | 39.687 | -121.691 | 88.9  | 291.6  | 1727  |
| 9    | 18:58:21 | 39.679 | -120.992 | 89.8  | 292.4  | 127.33 | 19:25:03 | 39.670 | -120.978 | 89.8  | 292.5  | 10000 |
| 10   | 19:25:03 | 37.372 | -118.668 | 95.5  | 296.6  | 140.83 | 19:30:23 | 37.361 | -118.657 | 95.5  | 296.6  | 1997  |
| 11   | 19:30:42 | 36.878 | -118.206 | 96.7  | 297.5  | 162.84 | 19:47:55 | 36.864 | -118.202 | 96.7  | 297.5  | 6447  |
| 12   | 19:52:43 | 34.958 | -117.578 | 101.5 | 300.8  | 348.76 | 19:59:12 | 34.972 | -117.583 | 101.5 | 300.8  | 2425  |

NUMBER OF FILES FOR THIS FLIGHT = 12
TOTAL NUMBER OF SCAN LINES = 44694
DATE THESE FILES WERE PROCESSED = 11-Oct-2001
GRANULE VERSION = 1