FLIGHT SUMMARY REPORT

Flight Number: 93-135
Calendar/Julian Date: 11 July 1993 • 192
Sensor Package: Wild-Heerbrug RC-10
Airborne Visible and Infrared Imaging Spectrometer (AVIRIS)
Area(s) Covered: New England

Investigator(s): Aber, U. of New Hampshire
Aircraft #: 708

SENSOR DATA

Accession #: 04592
Sensor ID #: 034
Sensor Type: RC-10 AVIRIS
Focal Length: 12" 304.66 mm
Film Type: High Definition Aerochrome IR SO-131
Filtration: cc.10B
Spectral Band: 510-900 nm
f Stop: 4
Shutter Speed: 1/150
# of Frames: 51
% Overlap: 60
Quality: Excellent
Remarks:
Camera Systems

Various camera systems and films are used for photographic data collection. Film types include high definition color infrared, natural color, and black and white emulsions. Available photographic systems are as follows:

- Wild-Heerbrug RC-10 metric mapping camera
  - 9 x 9 inch film format
  - 6 inch focal length lens provides area coverage of 16 x 16 nautical miles from 65,000 feet
  - 12 inch focal length lens provides area coverage of 8 x 8 nautical miles from 65,000 feet

- Hycon HR-732 large scale mapping camera
  - 9 x 18 inch film format
  - 24 inch focal length lens provides area coverage of 4 x 8 nautical miles from 65,000 feet

- IRIS II Panoramic camera
  - 4.5 x 34.7 inch film format
  - 24 inch focal length lens
  - 90 degree field of view provides area coverage of 2 x 21.4 nautical miles from 65,000 feet

The U.S. Geological Survey's EROS Data Center at Sioux Falls, South Dakota serves as the archive and product distribution facility for NASA-Ames aircraft acquired photographic and digital imagery. For information regarding photography and digital data (including areas of coverage, products, and product costs) contact EROS Data Center, Customer Services, Sioux Falls, South Dakota 57198 (Telephone: 605-594-6151).

For specific information regarding flight documentation, sensor parameters, and areas of coverage contact the Aircraft Data Facility, NASA-Ames Research Center, Mail Stop 240-6, Moffett Field, California 94035-1000 (Telephone: 415-604-6252). Additional information regarding ER-2 acquired photographic and digital data is also available through the Aircraft Data Facility.
# CAMERA FLIGHT LINE DATA
## FLIGHT NO. 93-135

**Accession #** 04592  
**Sensor #** 034

<table>
<thead>
<tr>
<th>Check Points</th>
<th>Frame Numbers</th>
<th>Time (GMT-hr, min, sec)</th>
<th>Altitude, MSL feet/meters</th>
<th>Cloud Cover/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>START</strong></td>
<td><strong>END</strong></td>
<td></td>
</tr>
<tr>
<td>A - B</td>
<td>8930-8934</td>
<td>15:15:47</td>
<td>15:17:18</td>
<td>65000/19800</td>
</tr>
<tr>
<td>C - D</td>
<td>8937-8942</td>
<td>15:40:17</td>
<td>15:42:10</td>
<td>10-30% scattered cumulus</td>
</tr>
<tr>
<td>E - F</td>
<td>8943-8950</td>
<td>15:46:30</td>
<td>15:48:51</td>
<td>30% scattered cumulus; oblique frame; Tupper Lake, New York</td>
</tr>
<tr>
<td>G - H</td>
<td>8951-8959</td>
<td>15:54:30</td>
<td>15:56:24</td>
<td>40-50% scattered cumulus</td>
</tr>
<tr>
<td>I - J</td>
<td>8960-8966</td>
<td>16:03:42</td>
<td>16:06:08</td>
<td>10-30% scattered cumulus</td>
</tr>
<tr>
<td>K - L</td>
<td>8967-8973</td>
<td>16:12:35</td>
<td>16:14:56</td>
<td>30-60% scattered cumulus</td>
</tr>
<tr>
<td>M - A</td>
<td>8975-8981</td>
<td>17:22:15</td>
<td>17:24:34</td>
<td>40-70% scattered cumulus</td>
</tr>
</tbody>
</table>

**NOTE:** Film transported without shutter function. No image for frame 8936