Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 84-068
Date 8 May 1984

FSR- 1888

NASA
National Aeronautics and Space Administration
Ames Research Center
Moffett Field, California 94035

Airborne Missions and Applications Division
FLIGHT SUMMARY REPORT

Flight No: 84-068
FSR No: 1888

Sensor Package: RC-10 Camera; Aerosol Particulate Sampler (APS)

Purpose of Flight: #0950 Support
Requestor: Bauer

Area(s) Covered: Northern California

SENSOR DATA

Accession No: 03336
Sensor ID No: 036 024
Sensor Type: RC-10 APS
Focal Length: 6" 153.19mm

Film Type: High Definition
Aerochrome Infrared S0-127

Filtration: CC .30B+2.2AV

Spectral Band: 510-900nm
f Stop: 4.0
Shutter Speed: 1/75
No. of Frames: 175
% Overlap: 60
Quality: Excellent
Remarks: Non-Imaging Sensor
This Flight was flown in support of Flight Request #0950 (Bauer, NASA/Ames) under the FY 1984 Airborne Instrumentation Research Program (AIRP) plan. Color infrared photography was acquired over the Sacramento Valley in California (See Track Map). Additionally Aerosol Particulate Sampling (APS) was acquired during the flight.

Minor clouds were encountered at the beginning of the second flight line; The rest of the flight being cloud free. No camera or processing malfunctions were noted, and the quality of the data is rated as excellent.

Aerosol Particulate Sampler

The APS has been developed and is operated by Dr. Guy Ferry of the NASA-Ames Research Center Atmospheric Experiments Branch. The sampler is a non-imaging sensor designed to gather high altitude dust particles for laboratory research.
**FLIGHT LINE DATA**

**FLIGHT NO.** 84-068

<table>
<thead>
<tr>
<th>Sensor#</th>
<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>
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</thead>
<tbody>
<tr>
<td>036</td>
<td>A-B</td>
<td>6827-6843</td>
<td>18:21:40 18:37:10</td>
<td>65,000/19800</td>
<td>Clear</td>
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<td>C-D</td>
<td>6844-6889</td>
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<td>E-F</td>
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<td>024</td>
<td>-</td>
<td>-</td>
<td>18:13:00 21:13:00</td>
<td>65,000/19800</td>
<td>APS #1, #2 Exposed for 3 hours above 60,000 feet.</td>
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</tbody>
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