Flight Summary Report

Flight No. 75-176
Date 8 October 1975

FSR- 749

Data Research and Management Branch
Applications Division
Ames Research Center, Moffett Field, California
FLIGHT SUMMARY REPORT

Flight No: 75-176
FSR No: 749
Sensor Package: I2S Multispectral Camera
Aerosol Particulate Sampler (APS)

Purpose of Flight: 
#0331 Support
Requestor: Paul/Bryant
#0047 Support
Requestor: Ferry

Area(s) Covered: Los Angeles Basin, California

SENSOR DATA

Accesion No: 02243
Sensor ID No: 005
Sensor Type: I2S
Focal Length: 100mm

Film Type: Infrared
Aerographic, 2424

Filtration: WRATTEN 47+ IR Blocking Filter
WRATTEN 57+ IR Blocking Filter
WRATTEN 25+ IR Blocking Filter
WRATTEN 88A

Spectral Band: 440-560nm 540-620nm 630-700nm 760-910nm
f Stop: 8.0 5.6 5.6 11.0
Shutter Speed: 1/350 1/350 1/350 1/350
No. of Frames: 133
% Overlap: 60
Quality: Excellent
Remarks: Non-imaging sensor

Date: 8 October 1975
Julian Date: 281
Aircraft No: 5
This flight was flown in support of Flight Requests #0331 (Paul/Bryant, JPL) and #0047 (Ferry, NASA/ARC) under the FY 1976 Airborne Instrumentation Research Program (AIRP) plan. The flight provides I2S multispectral camera and Aerosol Particulate Sampler (APS) data over the Los Angeles Basin, California (see Track Map).

Minor scattered cumulus was encountered on the first and last flight lines in the vicinity of Palos Verdes peninsula. All other areas were clear. There were no camera or processing malfunctions noted and the data is rated excellent.

The Aerosol Particulate Sampler has been developed and is operated by Dr. Guy Ferry of the NASA-Ames Research Center Planetary Science and Applications Branch. The sampler is a non-imaging sensor designed to gather high altitude dust particles for laboratory research. The Track Map and Flight Line Data indicate those segments of the flight during which the sampler was activated.
## FLIGHT LINE DATA

**FLIGHT NO.** 75-176

<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><strong>I2S</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a-b</td>
<td>0001-0028</td>
<td>18:42:59</td>
<td>18:56:58</td>
<td>65,000/19800</td>
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<tr>
<td>c-d</td>
<td>0029-0054</td>
<td>19:00:32</td>
<td>19:14:07</td>
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<tr>
<td>e-f</td>
<td>0055-0078</td>
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<td>19:30:07</td>
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<td>g-h</td>
<td>0079-0105</td>
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<td>19:50:04</td>
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<td>i-j</td>
<td>0106-0133</td>
<td>19:53:38</td>
<td>20:06:54</td>
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<tr>
<td><strong>APS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-2</td>
<td>---</td>
<td>18:20:--</td>
<td>18:30:--</td>
<td>&quot;</td>
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<tr>
<td>3-4</td>
<td>---</td>
<td>18:46:--</td>
<td>18:36:--</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

10-20% scattered cumulus, frs. 0021-0025
Clear
Clear
Clear
10% minor cumulus, frs. 0109-0110, 0122-0123; Oblique frames 0130-0133
APS #1 opened and closed
APS #2 opened and closed