Earth Resources Aircraft Project

Flight Summary Report

Flight No. 74-074
Date 9 May 1974

FSR-456

Airborne Science Office
Ames Research Center, Moffett Field, California
NASA/ARC Earth Resources Aircraft Project

FLIGHT SUMMARY REPORT

Flight No: 74-074
Aircraft No: 4
Sensor Package: Vinten System B/RC-10
Sensor ID No: 017
Sensor Type: Vinten
Lens Focal Length: 1-3/4"
Film Type: Plus-X, 2402
Spectral Band: 475-575nm
f Stop: 16
Shutter Speed: 1/250
No. of Frames: 68
% Overlap: 60
Quality: Excellent
Remarks: Aerosol Particulate Sampler (APS), Sensor ID No. 024, also flown (non-imaging sensor)

Date: 9 May 1974
Julian Date: 129

Area(s) Covered: Merced County, California
FLIGHT SUMMARY
74-074

This flight was conducted in support of the ERAP Data Facility's R&D Program concerned with developing analysis techniques for deriving and quantifying land use and other types of information from high altitude photography. The test area selected for this program is Merced County, California.

All camera imagery obtained on this flight is of excellent quality with no malfunctions noted. The entire test area was cloud-free.

The Aerosol Particulate Sampler (APS) was also flown on this flight in support of the Planetary Sciences and Applications Branch of NASA-Ames Research Center under the auspices of Dr. Guy Ferry. 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.** 74-074

<table>
<thead>
<tr>
<th>Check Points</th>
<th>Frame Numbers</th>
<th>Time (GMT - hr. min, sec)</th>
<th>Altitude, MSL (feet)</th>
<th>Cloud Cover/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VINTEN</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>A-B</td>
<td>0001-0014</td>
<td>18:29:44</td>
<td>18:40:29</td>
<td>65,000</td>
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<tr>
<td>C-D</td>
<td>0015-0027</td>
<td>18:45:01</td>
<td>18:54:32</td>
<td>Clear</td>
</tr>
<tr>
<td>E-F</td>
<td>0028-0039</td>
<td>18:58:18</td>
<td>19:07:25</td>
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<td><strong>RC-10</strong></td>
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<td>7067-7078</td>
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<td>18:40:28</td>
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<td>C-D</td>
<td>7079-7089</td>
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<td>18:54:32</td>
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<td>E-F</td>
<td>7090-7099</td>
<td>18:58:25</td>
<td>19:07:12</td>
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<tr>
<td><strong>APS</strong></td>
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<tr>
<td>1-2</td>
<td>----</td>
<td>18:20:00</td>
<td>18:50:00</td>
<td>65,000</td>
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<tr>
<td>2-3</td>
<td>----</td>
<td>18:50:00</td>
<td>19:20:00</td>
<td>APS #1 opened and closed</td>
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</tbody>
</table>
FLIGHT 74-074
9 MAY 1974
ERAP SUPPORT
DATA RUN
Vinten /RC-10
APS

JNC-43N