National Aeronautics and Space Administration

Earth Resources Aircraft Project

Flight Summary Report

Flight No. 74-133
Date 1 August 1974

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

FLIGHT SUMMARY REPORT

Flight No: 74-133
Aircraft No: 4
Sensor Package: RC-10 Aerosol Particulate Sampler (APS)

Purpose of Flight: 74-SR-0186 Support
Requestor: Deerwester, NASA/ARC
74-SR-0047 Support (APS)
Requestor: Ferry, NASA/ARC
Area(s) Covered: San Joaquin Valley, California

SENSOR DATA

Accession No: 01893
Sensor ID No: 017 024
Sensor Type: RC-10 APS
Lens Focal Length: 6"
Film Type: Aerochrome Infrared, 2443
Spectral Band: 510-900nm
f Stop: 8
Shutter Speed: 1/250
No. of Frames: 81
% Overlap: 60
Quality: Excellent
Remarks: Non-imaging Sensor
FLIGHT SUMMARY

74-133

This flight was flown in support of Flight Requests 74-SR-0186 (Deerwester, NASA/ARC) and 74-SR-0047 (Ferry, NASA/ARC) under the CY 1974 Earth Observations Aircraft Program (EOAP) plan. The flight provides coverage of the east-central portions of the San Joaquin Valley, (see Track Map) in cooperation with the State of California, Department of Water Resources.

The RC-10 camera was the only photographic sensor flown. The quality of the data is rated excellent with only minor degradation due to minor cumulus cloud over the area.

The Aerosol Particulate Sampler (APS) was also flown on this flight in support of Flight Request 74-SR-0047 (Dr. Guy Ferry, NASA/ARC Planetary Science and Applications Branch) under the CY 1974 Earth Observations Aircraft Program (EOAP) plan. 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. 74-133

<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>
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<td>E</td>
<td>--------------</td>
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