

**National Aeronautics and Space Administration**

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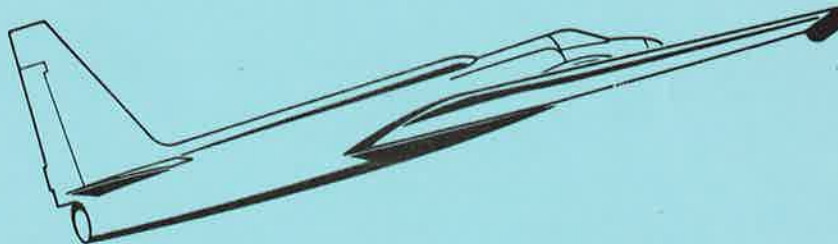
## **Earth Resources Aircraft Project**

# **Flight Summary Report**

**Flight No.** 75-006

**Date** 24 January 1975

**FSR- 581**



**Airborne Science Office**

**Ames Research Center, Moffett Field, California**

# NASA/ARC Earth Resources Aircraft Project

## FLIGHT SUMMARY REPORT

FSR: 581

Flight No: 75-006

Date: 24 January 1975

Aircraft No: 5

Julian Date: 024

Sensor Package: RC-10 (12-inch)  
Aerosol Particulate Sampler (APS)

Purpose of Flight: 75-0303 Support  
Requestor: Colwell/Estes, University of California  
75-0302 Support  
Requestor: Ferry, NASA/ARC

Area(s) Covered: South-central California

### SENSOR DATA

Accession No: 01998 ---

Sensor ID No: 026 024

Sensor Type: RC-10 Aerosol Particulate Sampler (APS)

Lens Focal Length: 12" ---

Film Type: Aerochrome  
Infrared,  
2443 ---

Filtration: Wratten 12  
+CC .20M ---

Spectral Band: 510-900nm ---

f Stop: 8 ---

Shutter Speed: 1/225 ---

No. of Frames: 387 ---

% Overlap: 60 ---

Quality: Excellent ---

Remarks: --- Non-imaging sensor

## FLIGHT SUMMARY

75-006

This flight was flown in support of Flight Requests 75-0303 (Colwell/Estes, University of California) and 75-0302 (Ferry, NASA/ARC) under the CY 1975 Earth Observations Aircraft Program (EOAP) plan. The flight provides RC-10 and Aerosol Particulate Sampler (APS) data over the San Joaquin Valley and central Coast Range of California (see Track Map).

The RC-10 data is rated excellent with no malfunctions noted. Minor haze was experienced in some areas. The 6-inch RC-10 data which was also flown was not accessioned due to severe underexposure caused by a shift in sensitivity of the film.

The Aerosol Particulate Sampler (APS) 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. 75-006

RC-10

| Check Points | Frame Numbers | Time (GMT – hr. min, sec) |          | Altitude, MSL (feet) | Cloud Cover/Remarks      |
|--------------|---------------|---------------------------|----------|----------------------|--------------------------|
|              |               | START                     | END      |                      |                          |
| A-B          | 2533-2580     | 18:27:59                  | 18:50:10 | 65,000               | Clear                    |
| C-D          | 2581-2648     | 18:54:35                  | 19:26:22 | "                    | "                        |
| E-F          | 2649-2707     | 19:30:01                  | 19:57:30 | "                    | "                        |
| G-H          | 2708-2766     | 20:02:58                  | 20:30:20 | "                    | "                        |
| I-J          | 2767-2800     | 20:34:31                  | 20:50:08 | "                    | "                        |
| K-L          | 2801-2834     | 20:53:49                  | 21:09:27 | "                    | "                        |
| M-N          | 2835-2861     | 21:27:23                  | 21:39:42 | "                    | "                        |
| O-P          | 2862-2889     | 21:43:04                  | 21:55:51 | "                    | "                        |
| Q-R          | 2890-2910     | 21:58:56                  | 22:08:07 | "                    | "                        |
| S-T          | 2911-2920     | 22:06:28                  | 22:20:28 | "                    | "                        |
| 1-2          | ---           | 18:40:--                  | 19:00:-- | 65,000               | APS #1 opened and closed |
| M-3          | ---           | 21:40:--                  | 22:00:-- | "                    | APS #2 opened and closed |



