

**National Aeronautics and Space Administration**

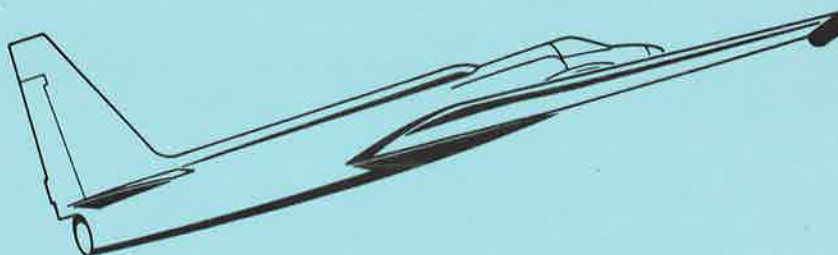
**Earth Resources Aircraft Project**

**Flight Summary Report**

**Flight No.** 74-139

**Date** 15 August 1974

**FSR- 518**



**Airborne Science Office**

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

# NASA/ARC Earth Resources Aircraft Project

## FLIGHT SUMMARY REPORT

FSR: 518

Flight No: 74-139

Date: 15 August 1974

Aircraft No: 4

Julian Date: 227

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

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

### SENSOR DATA

Accession No: 01894

Sensor ID No: 017

Sensor Type: RC-10

Lens Focal Length: 6"

Film Type: Aerochrome  
Infrared,  
2443

Spectral Band: 510-900nm

f Stop: 8.0

Shutter Speed: 1/250

No. of Frames: 78

% Overlap: 60

Quality: Excellent

Remarks: Aerosol Particulate Sampler (APS), sensor ID no. 024,  
also flown (non-imaging sensor).

## FLIGHT SUMMARY

74-139

This flight is in support of Flight Requests 74-SR-0047, Ferry, NASA/ARC and 74-SR-0186 (Deerwester, NASA/ARC) under the CY 1974, Earth Observations Aircraft Program (EOAP) plan.

The data provides coverage of the western San Joaquin Valley and supplements flights 74-132 and 74-133 to provide coverage of the Sacramento and San Joaquin Valley's (see Track Map).

The imagery is of excellent quality with no camera or processing malfunctions noted. All flight lines are cloud free, except for minor scattered cumulus at the beginning of the third flight line. (see Flight Line Data)

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. 74-139

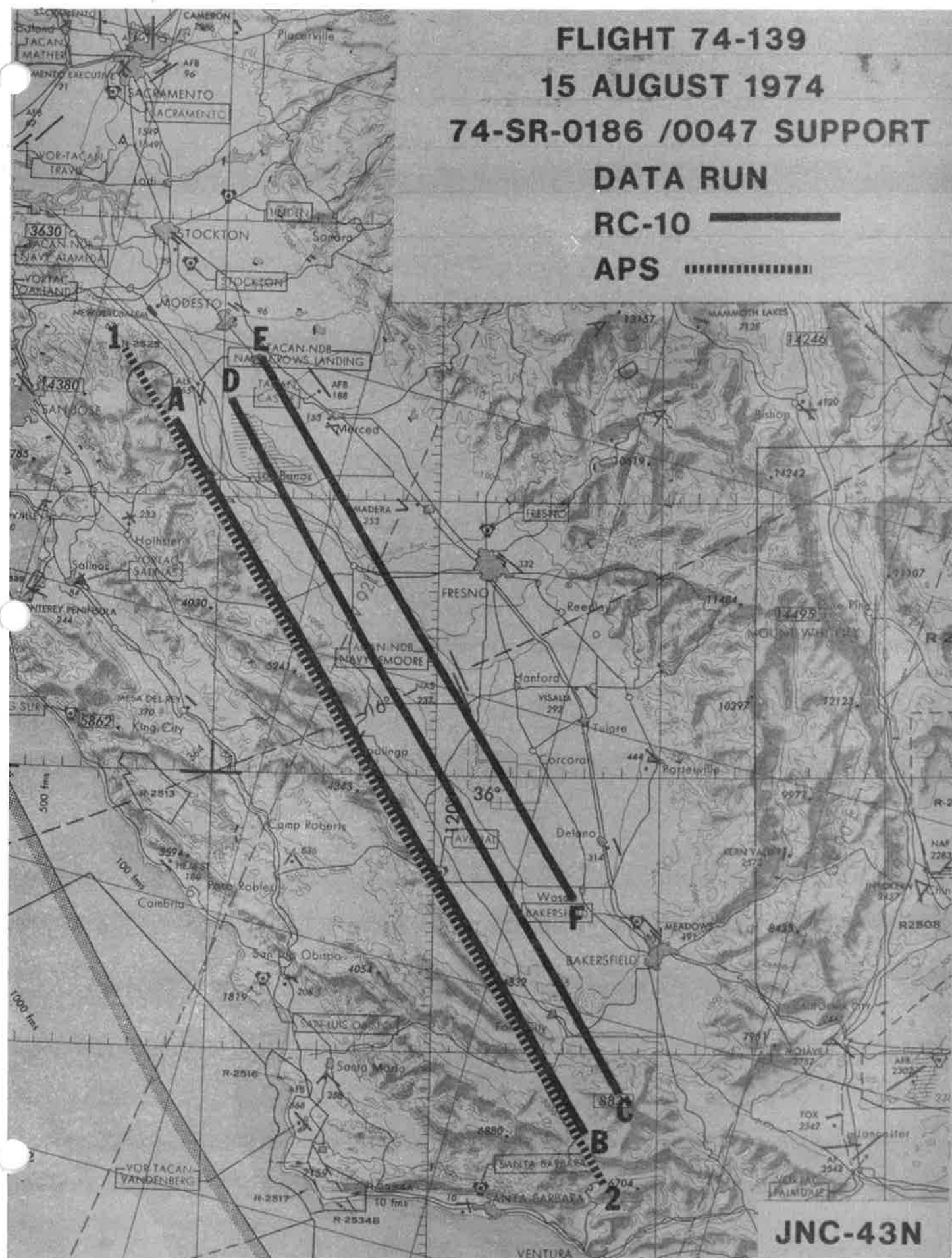
	Check Points	Frame Numbers	Time (GMT – hr, min, sec)		Altitude, MSL (feet)	Cloud Cover/Remarks
			START	END		
RC-10	A-B	1105-1133	18:28:31	18:55:50	65,000	Clear
	C-D	1134-1160	18:58:37	19:23:47	"	Clear
	E-F	1161-1182	19:26:48	19:47:03	"	10% Scattered Cumulus, frs. 1164-1166
APS	1-2	-----	18:27:00	18:57:00	65,000	APS#1 and #2, opened and closed.

## 15 AUGUST 1974

## DATA RUN

## RC-10

# APS



**JNC-43N**