

National Aeronautics and Space Administration

Earth Resources Aircraft Project

Flight Summary Report

Flight No. 74-199

Date 22 November 1974

FSR- 567



Airborne Science Office

Ames Research Center, Moffett Field, California

**G
70.4
F58**

NASA/ARC Earth Resources Aircraft Project

FLIGHT SUMMARY REPORT

Flight No: 74-199
Aircraft No: 4
Sensor Package: A-4 Configuration (RC-10 only)
Aerosol Particulate Sampler (APS)

FSR: 567

Date: 22 November 1974

Julian Date: 326

Purpose of Flight: 75-SR-0303 Support
Requestor: Colwell/Estes, University of California
74-SR-0047 Support (APS)

Area(s) Covered: Central Coast Range, California

SENSOR DATA

*ERS**

Accession No:	01973	---
Sensor ID No:	035	024
Sensor Type:	RC-10	Aerosol Particulate Sampler (APS)
Lens Focal Length:	6"	---
Film Type:	Aerochrome Infrared, 2443	---
Spectral Band:	510-900nm	---
f Stop:	5.6	---
Shutter Speed:	1/225	---
No. of Frames:	177	---
% Overlap	60	---
Quality	Excellent	---
Remarks	Slightly underexposed	Non-imaging sensor

FLIGHT SUMMARY

74-199

This flight was flown in support of Flight Request 75-SR-0303 (Colwell/Estes, University of California) under the CY 1975 Earth Observations Aircraft Program (EOAP) plan. The flight provides data over the Coast Range of central California (see Track Map).

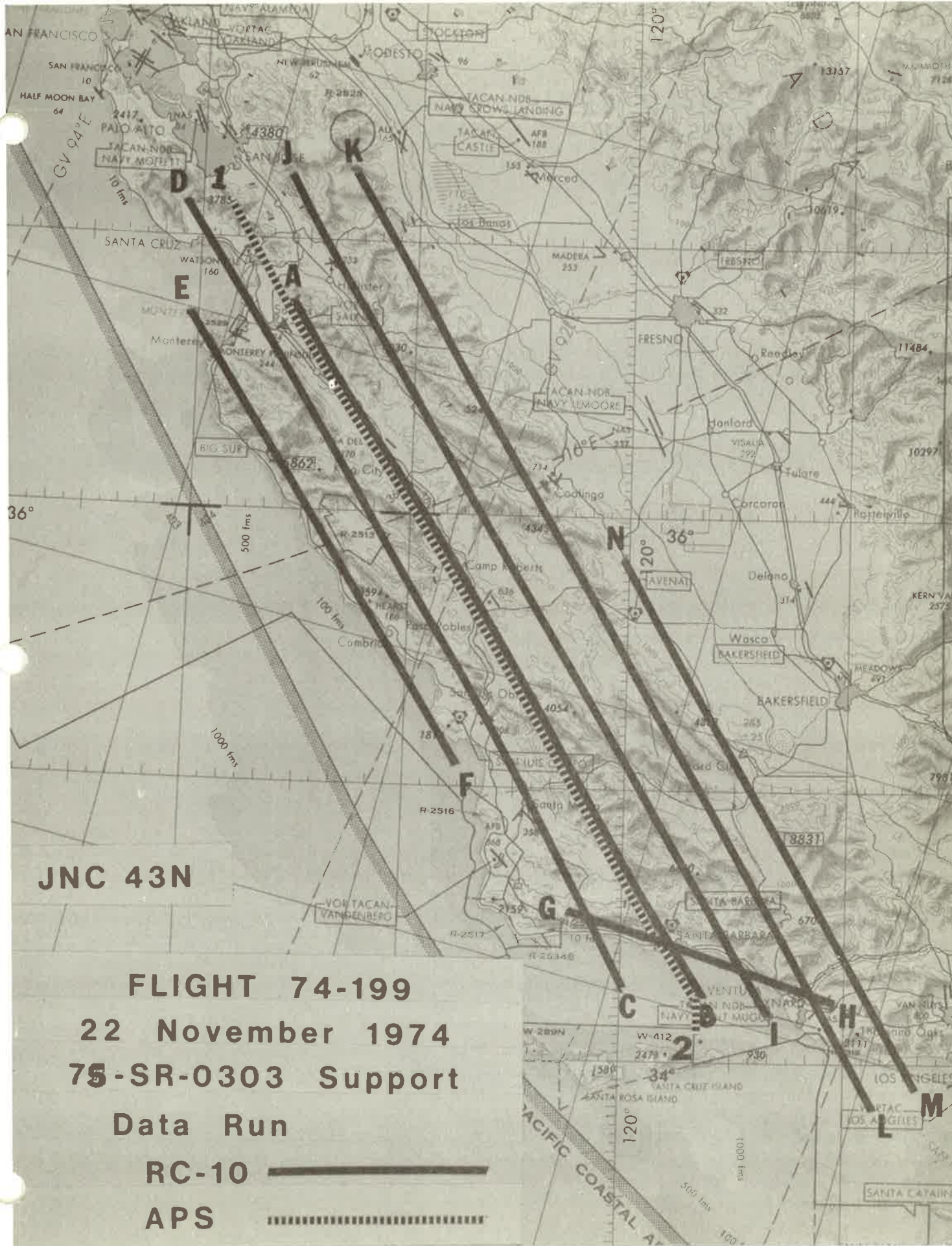
Scattered cumulus cloud cover was encountered over most of the area (see Flight Line Data) and the film was slightly underexposed, particularly at the beginning of the flight. Additionally, the data lights failed approximately halfway through the flight. As a result, times were taken for that portion of the flight from the pilot's log.

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. 74-199

Check Points	Frame Numbers	Time (GMT - hr, min, sec)		Altitude, MSL (feet)	Cloud Cover/Remarks	
		START	END			
RC-10	A-B	2829-2855	18:35:43	19:00:11	65,000	10-30% scattered cumulus, frs. 2829-2851
	C-D	2856-2886	19:05:31	19:34:31	"	10% scattered cumulus, frs. 2864-2869
	E-F	2887-2904	19:39:37	19:56:14	"	Clear
	G-H	2905-2913	20:03:53	20:10:54	"	10-20% scattered cumulus, frs. 2910-2913
	I-J	2914-2946	20:16:57	20:46:--	"	10-40% scattered cumulus
	K-L	2947-2983	20:49:--	21:24:--	"	10-20% scattered cumulus, frs. 2961-2967; 10-50% scattered cumulus, frs. 2969-2979
	M-N	2984-3005	21:26:30	21:47:--	"	10-20% scattered cumulus, frs. 2988-2990; 10-40% scattered cumulus, frs. 2992-3003
APS	1-2	---	18:32:--	19:02:--	65,000	APS #1 and #2 opened and closed



JNC 43N

FLIGHT 74-199
22 November 1974
75-SR-0303 Support
Data Run
RC-10
APS

