

National Aeronautics and Space Administration

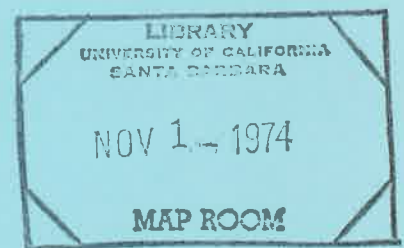
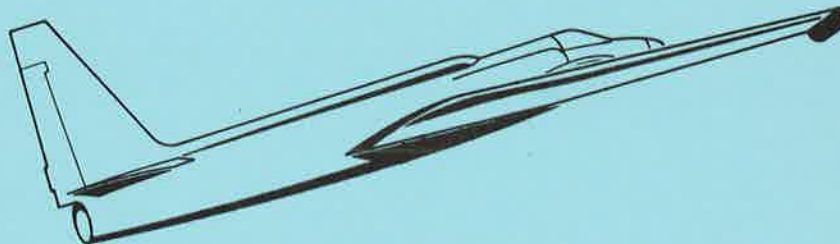
Earth Resources Aircraft Project

Flight Summary Report

Flight No. 74-133

Date 1 August 1974

FSR- 516



Airborne Science Office

Ames Research Center, Moffett Field, California

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NASA/ARC Earth Resources Aircraft Project

FLIGHT SUMMARY REPORT

Flight No: 74-133

FSR: 516

Date: 2 August 1974

Aircraft No: 4

Julian Date: 214

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
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

	Check Points	Frame Numbers	Time (GMT - hr. min. sec)		Altitude, MSL (feet)	Cloud Cover/Remarks
			START	END		
RC-10	B-C	0927-0941	18:31:28	18:43:52	65,000	10% Cumulus (frs. 0931-0933)
	D-F	0942-0967	18:59:07	19:22:52	"	Clear
	G-H	0968-0995	19:27:17	19:52:52	"	10% Cumulus (frs. 0980-0983)
	I-J	0996-1007	19:56:05	20:06:47	"	10% Cumulus (frs. 0996,1005,1007)
APS	A	-----	18:25:--	-----	65,000	APS #1 & 2 opened
	E	-----	-----	19:10:--	"	APS #1 & 2 closed

