

National Aeronautics and Space Administration

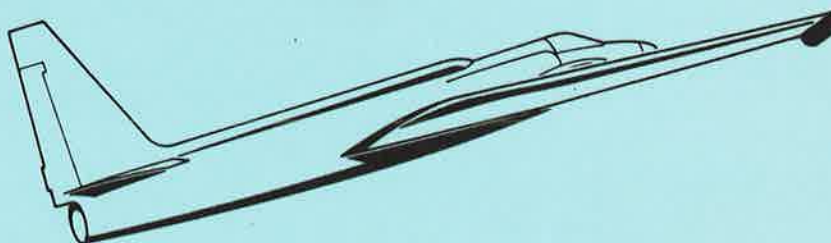
Earth Resources Aircraft Project

Flight Summary Report

Flight No. 76-005

Date 15 January 1976

FSR- 782



Airborne Science Office

Ames Research Center, Moffett Field, California

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FLIGHT SUMMARY REPORT

Flight No: 76-005

Date: 15 January 1976

FSR No: 782

Julian Date: 015

Sensor Package: RC-10 / Aerosol Particulate Sampler (APS) Aircraft No: 4

Purpose of Flight: #0303 Support
Requestor: Estes
#0047 Support
Requestor: Ferry

Area(s) Covered: Central California

SENSOR DATA

450

Accession No:	02290	---
Sensor ID No:	023	024
Sensor Type:	RC-10	APS
Focal Length:	6" 153.21mm	---
Film Type:	Aerochrome Infrared, 2443	---
Filtration:	WRATTEN 12 + CC .50M + 2.2 AV	---
Spectral Band:	510-900nm	---
f Stop:	5.6	---
Shutter Speed:	1/200	---
No. of Frames:	194	---
% Overlap:	60	---
Quality:	Good	---
Remarks:	---	Non-imaging sensor

FLIGHT SUMMARY

76-005

This flight was flown in support of Flight Requests #0303 (Estes, University of California, Santa Barbara) and #0047 (Ferry, NASA/ARC) under the FY 1976 Airborne Instrumentation Research Program (AIRP) plan. Photographic and Aerosol Particulate Sampler (APS) data was collected over central California (see Track Map).

The weather over the entire area was clear except for some minor cirrus and haze in the San Joaquin Valley. The flight number displayed in the data annotation block on the imagery erroneously reads 76-015. The imagery obtained is good quality with no camera or processing malfunctions noted.

The Aerosol Particulate Sampler 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. 76-005

Check Points	Frame Numbers	Time (GMT— hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks
		START	END		
a-b	7603-7625	19:00:26	19:19:56	65,000/19800	Light cirrus, frs. 7603-7608
c-d	7626-7655	19:31:12	19:58:59	"	Light cirrus, frs. 7652-7655
e-f	7656-7682	20:02:57	20:28:19	"	Clear
g-h	7683-7703	20:31:22	20:50:36	"	Clear
i-j	7704-7725	20:54:05	21:14:16	"	Clear
k-l	7726-7752	21:18:09	21:42:59	"	Clear
m-n	7753-7777	21:46:06	22:08:32	"	Clear
o-p	7778-7782	22:15:55	22:19:48	"	Clear
q-r	7783-7796	22:23:54	22:35:58	"	Clear
1-2	---	18:56:--	19:06:--	"	APS #3 opened and closed
3-4	---	19:07:--	19:17:--	"	APS #2 opened and closed
3-r	---	19:07:--	22:35:--	"	APS #1 opened full time from start of photo data run and closed at the beginning of descent - not shown on Track Map

