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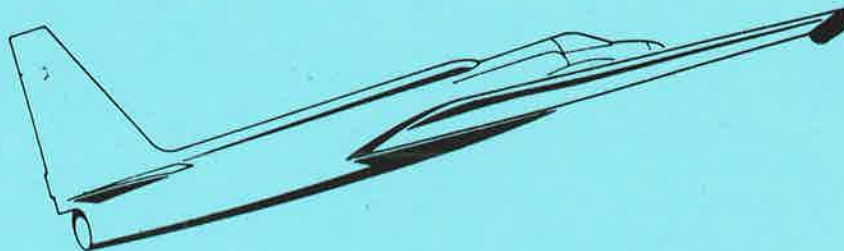
Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 80-073

Date 16 June 1980

FSR- 1421



NASA

National Aeronautics and
Space Administration

Ames Research Center
Moffett Field, California 94035

Airborne Missions and Applications Division

FLIGHT SUMMARY REPORT

Flight No: 80-073

Date: 16 June 1980

FSR No: 1421

Julian Date: 168

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

Aircraft No: 4

Purpose of Flight: #0805 Support
Requestor: Colwell
#0047 Support
Requestor: Ferry

Area(s) Covered: Plumas National Forest, California

SENSOR DATA

Accession No:	02890	---
Sensor ID No:	034	024
Sensor Type:	RC-10	APS
Focal Length:	12" 304.66mm	---
Film Type:	High Definition Aerochrome Infrared, S0-131	---
Filtration:	CC .20B	---
Spectral Band:	510-900nm	---
f Stop:	4	---
Shutter Speed:	1/125	---
No. of Frames:	289	---
% Overlap:	60	---
Quality:	Excellent	---
Remarks:	---	Non-imaging sensor

FLIGHT SUMMARY

80-073

This flight was flown in support of Flight Requests #0805 (Colwell, UCSB) and #0047 (Ferry, NASA/ARC) under the FY 1980 Airborne Instrumentation Research Program (AIRP) plan. Photography was acquired over the Plumas National Forest in California (see Track Map). Aerosol Particulate Sampler (ASP) data was collected at selected altitudes during climb out of Moffett Field.

Some minor cumulus was encountered over the higher mountainous areas of the Plumas Forest area. The photography is excellent quality with no camera or processing malfunctions noted.

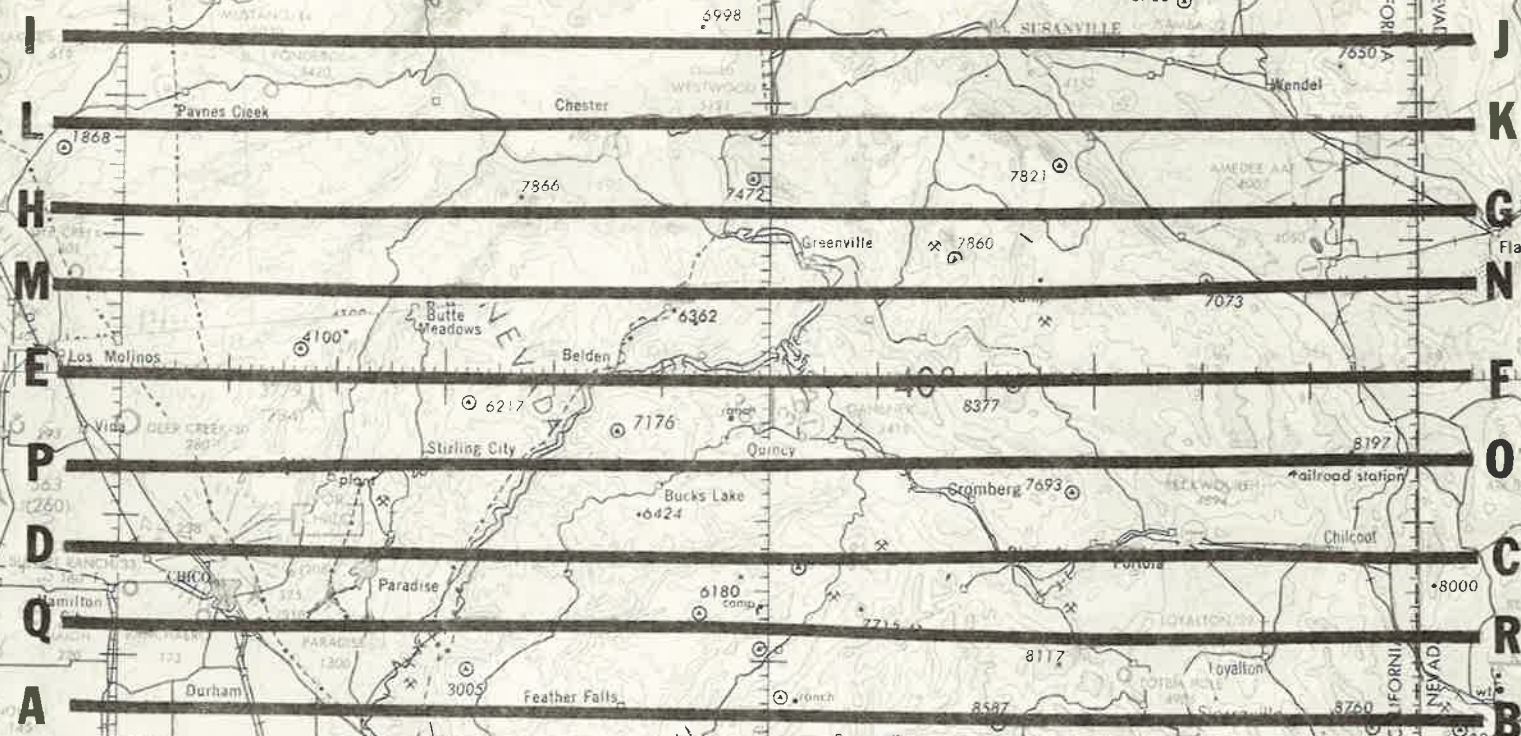
The APS has been developed and is operated by Dr. Guy Ferry of the NASA-Ames Research Center Atmospheric Experiments Branch. The sampler is a non-imaging sensor designed to gather high altitude dust particles for laboratory research.

FLIGHT LINE DATA

FLIGHT NO. 80-073

Check Points	Frame Numbers	Time (GMT—hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks	
		START	END			
RC-10	A-B	3764-3796	18:01:15	18:16:03	65,000/19800	Clear
	C-D	3797-3827	18:21:19	18:34:52	"	Forest fire, frs. 3808-3809
	E-F	3828-3859	18:37:51	18:51:53	"	Clear
	G-H	3860-3891	18:54:58	19:09:03	"	0-10% minor cumulus, frs. 3879-3881
	I-J	3892-3923	19:12:20	19:26:21	"	0-10% minor cumulus, frs. 3909-3911
	K-L	3924-3955	19:33:06	19:46:59	"	0-10% minor cumulus, frs. 3942-3945
	M-N	3956-3988	19:50:13	20:04:42	"	0-10% minor cumulus, frs. 3970-3972, 3978-3983
	O-P	3989-4019	20:07:59	20:21:42	"	0-10% minor cumulus, frs. 3996-4001
	Q-R	4020-4052	20:24:51	20:38:17	"	0-10% minor cumulus, frs. 4043-4050
APS	---	-----	17:41:00	17:42:00	40,000/12200	APS #1 exposed and sealed
	---	-----	17:45:00	17:46:00	50,000/15250	APS #2 exposed and sealed
	---	-----	17:50:00	17:51:00	60,000/18300	APS #3 exposed and sealed

ONC F-16



FLIGHT 80-073

16 JUNE 1980

DATA RUN

RC-10 

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