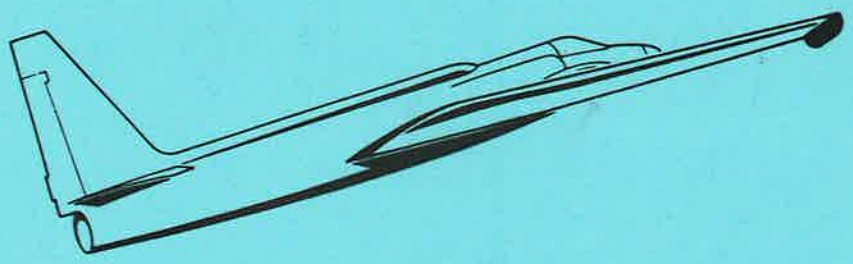
Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 84-148

Date 7 September 1984

FSR- 1973



NASA
National Aeronautics and
Space Administration

Ames Research Center
Moffett Field, California 94035

Airborne Missions and Applications Division

FLIGHT SUMMARY REPORT

Flight No: 84-148

Date: 7 September 1984

FSR No: 1973

Julian Date: 251

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

Aircraft No: 706

Purpose of Flight: #0950 Support
Requestor: Bauer
#0983 Support
Requestor: Clanton

Area(s) Covered: central California

SENSOR DATA

Accession No:	03405	---
Sensor ID No:	023	024
Sensor Type:	RC-10	APS
Focal Length:	6" 153.21mm	---
Film Type:	High Definition Aerochrome Infrared, SO-193	---
Filtration:	CC.20B+2.2AV	---
Spectral Band:	510-900nm	---
f Stop:	4	---
Shutter Speed:	1/125	---
No. of Frames:	174	---
% Overlap:	60	---
Quality:	Excellent	---
Remarks:	---	Non imaging-Sensor

FLIGHT SUMMARY

84-148

This flight was flown in support of Flight Requests #0950 (Bauer, NASA/AMES) and #0983 (Clanton, NASA/JSC) under the FY 1984 Airborne Instrumentation Research Program (AIRP) plan. RC-10 photographic coverage was obtained over central California. Additionally, Aerosol Particulate Sampler (APS) data was acquired throughout the flight but is not depicted on the track map.

The entire area was cloud free. No camera or processing malfunctions were encountered and the quality of the data is rated excellent.

Aerosol Particulate Sampler

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. 84-148

Sensor #	Check Points	Frame Numbers	Time (GMT—hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks
			START	END		
023	A-B	9500-9553	18:36:41	19:27:01	65000/19800	Clear
	C-D	9554-9615	19:30:27	20:26:00	"	Clear
	E-F	9616-9667	20:29:31	21:16:38	"	Clear
	G-H	9668-9673	21:26:26	21:30:17	"	Clear
024	---	---	18:21:00	21:34:00		APS #3 exposed for 3 hours and 13 minutes

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DATA RUN
RC-10