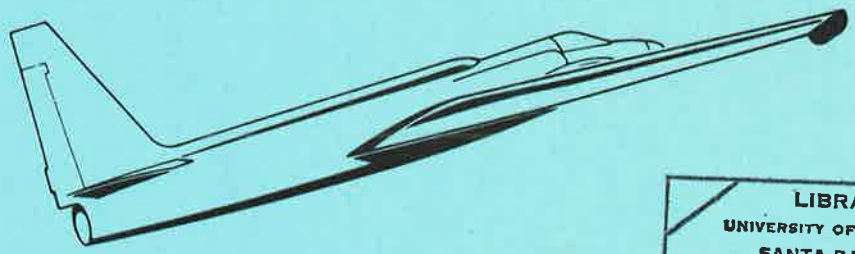
Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 79-135

Date 11 September 1979

FSR- 1330



National Aeronautics and
Space Administration

Ames Research Center
Moffett Field, California 94035

Airborne Missions and Applications Division

FLIGHT SUMMARY REPORT

Flight No: 79-135

Date: 11 September 1979

FSR No: 1330

Julian Date: 254

Sensor Package: A-4 Configuration
Aerosol Particulate Sampler (APS)

Aircraft No: 5

Purpose of Flight: #0666W Support
Requestor: Bauer
#0047 Support
Requestor: Ferry

Area(s) Covered: Eastern Fresno County, California

SENSOR DATA

Accession No:	02821	02822	---
Sensor ID No:	023	039	024
Sensor Type:	RC-10	HR-732	APS
Focal Length:	6" 153.21mm	24" 609.6mm	---
Film Type:	High Definition Aerochrome Infrared, SO-127	High Definition Aerochrome Infrared, SO-127	---
Filtration:	CC .10B + 2.2AV	CC .30B	---
Spectral Band:	510-900nm	510-900nm	---
f Stop:	4	8	---
Shutter Speed:	1/125	1/75	---
No. of Frames:	51	164	---
% Overlap:	60	60	---
Quality:	Excellent	Excellent	---
Remarks:	---	---	Non-imaging sensor

FLIGHT SUMMARY

79-135

This flight was flown in support of Flight Requests #0666W (Bauer, NASA/ARC) and #0047 (Ferry, NASA/ARC) under the FY 1979 Airborne Instrumentation Research Program (AIRP) plan. The A-4 Camera Configuration was utilized to acquire photography over eastern Fresno County in California (see Track Map). Additionally, Aerosol Particulate Sampler (APS) data was collected for the full time above 60,000 feet although not indicated on the track map.

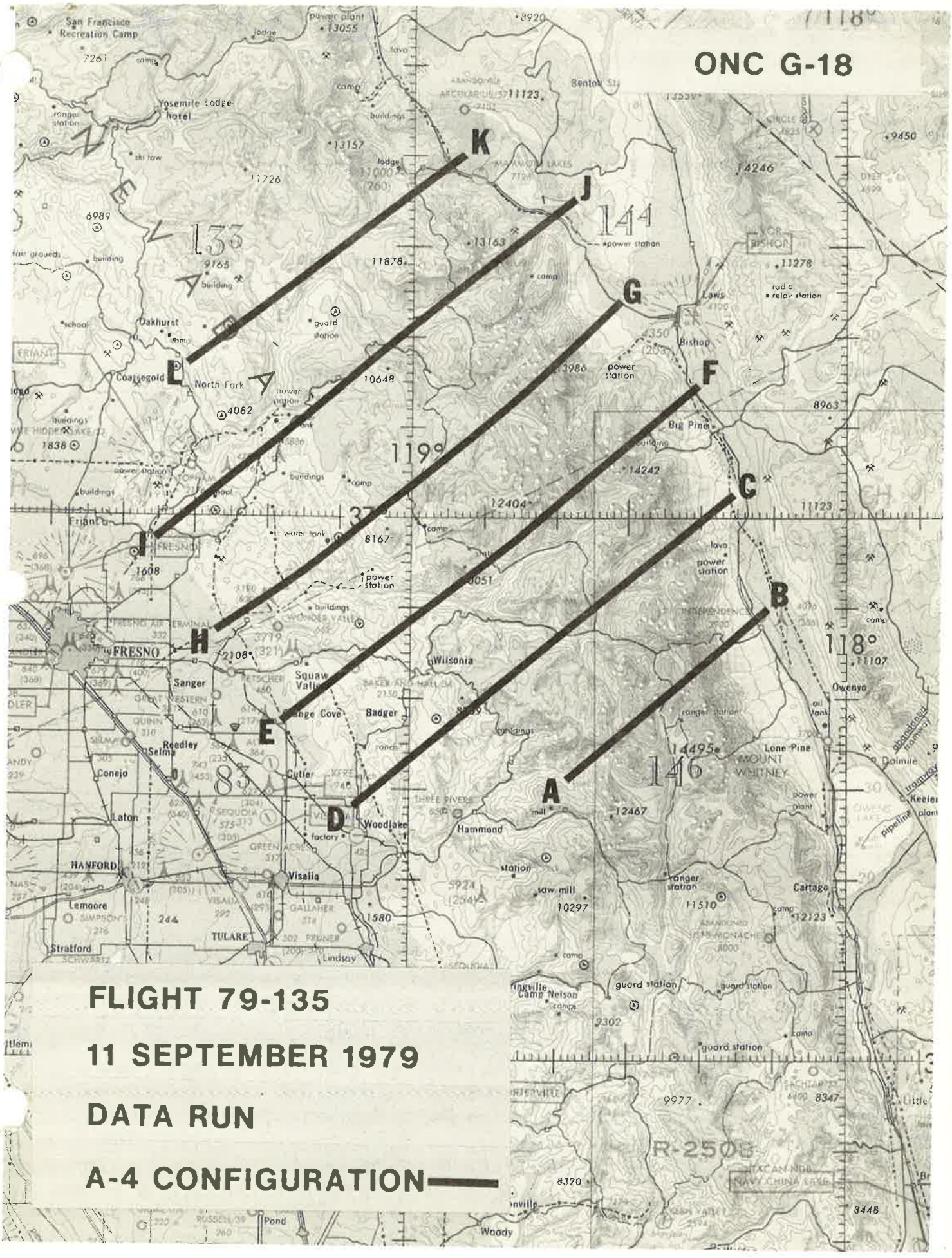
The area was generally clear except for some minor cumulus encountered over the higher elevations. The photography acquired is of excellent quality with no camera or processing malfunctions noted.

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. 79-135

	Check Points	Frame Numbers	Time (GMT – hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks
			START	END		
RC-10	A-B	7240-7245	18:37:48	18:41:47	65,000/19800	Very minor cumulus, frs. 7240-7241
	C-D	7246-7254	18:45:55	18:52:56	"	Minor cumulus, frs. 7249-7251
	E-F	7255-7264	18:56:11	19:04:01	"	Minor cumulus, frs. 7259-7261
	G-H	7265-7273	19:07:43	19:15:07	"	Very minor cumulus, frs. 7268-7269
	I-J	7274-7283	19:18:20	19:26:28	"	Clear
	K-L	7284-7290	19:30:42	19:35:35	"	Minor cumulus, fr. 7284
HR-732	A-B	0001-0014	18:38:15	18:42:18	65,000/19800	Clear
	C-D	0015-0043	18:46:22	18:53:21	"	Minor cumulus, frs. 0028-0034
	E-F	0044-0076	18:56:38	19:04:28	"	Minor cumulus, frs. 0062-0064
	G-H	0077-0108	19:08:09	19:15:40	"	Minor cumulus, frs. 0087-0088, 0093-0094
	I-J	0109-0142	19:18:47	19:26:54	"	Clear
	K-L	0143-0164	19:31:08	19:36:08	"	Clear
APS	---	---------	18:14:00	19:39:00	65,000/19800	APS #1 and #2 exposed and sealed for full time above 60,000 feet MSL


ONC G-18
K
J
G
F
C
B
A
D
E
H
I
L
FLIGHT 79-135
11 SEPTEMBER 1979
DATA RUN
A-4 CONFIGURATION