

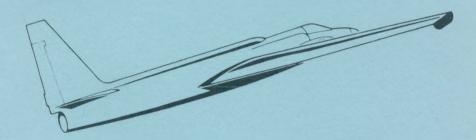
70.4 F58

Flight Summary Report

 Flight No.
 78-131

 Date
 19
 September
 1978

FSR-1189





Ames Research Center Moffett Field. California 94035

Airborne Missions and Applications Division

FLIGHT SUMMARY REPORT

Flight No: 78-131

FSR No: 1189

Sensor Package: Itek Optical Bar Panoramic Camera Aerosol Particulate Sampler (APS)

> Purpose of Flight: #0753 Support Requestor: Weber #0047 Support Requestor: Ferry

Area(s) Covered: Northern California

SENSOR DATA

Accession No:	02679	
Sensor ID No:	029	024
Sensor Type:	Optical Bar	APS
Focal Length:	24" 609.6mm	
Film Type:	High Definition Aerochrome Infrared, SO-131	
Filtration:	CC .20B	
Spectral Band:	510-900nm	
f Stop:	3.5	
Shutter Speed:	1/300	
No. of Frames:	1170	
% Overlap:	60	
Quality:	Excellent	
Remarks:		Non-imaging sensor

Date: 19 September 1978

Julian Date: 262

Aircraft No: 5

FLIGHT SUMMARY

78-131

This flight was flown in support of Flight Requests #0753 (Weber, USFS) and #0047 (Ferry, NASA/ARC) under the FY 1978 Airborne Instrumentation Research Program (AIRP) plan. Panoramic photography was acquired over northern California (see Track Map). Additionally, Aerosol Particulate Sampler (APS) data was collected during climb and descent. Due to the localized nature of the APS collection, it is not indicated on the track map.

The weather was generally clear throughout the flight except for some occassional scattered cumulus clouds. Minor emulsion flaws were noted on frames 0017 and 0021. The photography 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. 78-131

	Check Fi	Frame	Time (GMT-	-hr, min, sec)	Altitude, MSL feet/meters		
Poi	Points	Numbers	START	END		Cloud Cover/Remarks	
Optical	A-B	0001-0094	17:55:41	18:09:09	65,000/19800	Clear; minor emulsion flaws, frs. 0017-0021	
Bar	C-D	0095-0194	18:13:34	18:27:52	П	Clear	
	E – F	0195-0298	18:33:31	18:48:23	11	Clear	
	G-H	0299-0435	19:04:35	19:24:10	Ш	Minor scattered cumulus, frs. 0379-0407, 0413-0423	
	I-J	0436-0614	19:28:35	19:54:07	Ш	Minor scattered cumulus, frs. 0436-0497; film splice, fr. 0480	
	K-L	0615-0762	20:05:25	20:26:29	51	Minor scattered cumulus, frs. 0744-0755	
	M-N	0763-0936	20:31:11	20:55:54	u	Minor scattered cumulus, frs. 0763-0770, 0784-0785	
	0-P	0937-1113	21:22:54	21:28:02	u	Minor scattered cumulus, frs. 1070-1077, 1093-1101	
	Q-R	1114-1170	21:32:35	21:40:35	п	Minor scattered cumulus, frs. 1145-1155, 1161-1170	
APS			17:41:00	17:43:00	50,000/15250	APS #2 exposed and sealed IOAT -40°C	
			17:48:00	17:49:00	60,000/18300	APS #1 exposed and sealed IOAT -38°C	
			22:01:00	22:03:00	40,000/12200	APS #3 exposed and sealed IOAT -40°C	

