

## FLIGHT SUMMARY REPORT

 Flight No:
 76-059
 Date:
 16 April 1976

 FSR No:
 816
 Julian Date:
 107

 Sensor Package:
 RC-10 / Aerosol Particulate Sampler (APS)
 Aircraft No:
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Purpose of Flight:

#0303 Support Requestor: Estes #0047 Support Requestor: Ferry

Area(s) Covered:

San Joaquin Valley, California

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APS

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* *	SENSOR DATA
Accession No:	02315
Sensor ID No:	036
Sensor Type:	RC-10
Focal Length:	6" 153.19mm
Film Type:	High Definition Aerochrome Infrared, S0-127
Filtration:	CC .10B + 2.2 AV
	8
Spectral Band:	510-900nm
f Stop:	4
Shutter Speed:	1/200
No. of Frames:	59
% Overlap:	60
Quality:	Good
Remarks:	

Non-imaging sensor

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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. The flight provides RC-10 photographic coverage and Aerosol Particulate Sampler (APS) data over the San Joaquin Valley in California (see Track Map).

Minor cumulus cloud cover was experienced on all flight lines (see Flight Line Data) and, since it was building up over the coast range, coverage was suspended in the middle of the third flight line. The balance of the coverage was obtained on 19 April 1976 (Flight 76-060). No camera or processing malfunctions were encountered and the coverage is rated good.

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. 76-059

	Check Frame Points Numbers	Frame	Time (GMT-hr, min, sec)		Altitude, MSL	
		Numbers	START	END	feet/meters	Cloud Cover/Remarks
RC-10	A-B C-D E-F	4715-4733 4734-4757 4758-4773	18:24:22 18:51:32 19:16:46	18:41:40 19:13:38 19:31:11	65,000/19800 "	Minor scattered cumulus, frs. 4726-4733 Minor scattered cumulus, frs. 4734-4750 Minor scattered cumulus, frs. 4769-4773
		5				
APS =	1-2 2-3		18:21: 18:22:	18:22: 19:41:	U U U	APS #1 opened for 1 minute / IOAT -41°C APS #2 and #3 opened and closed / IOAT -40°C

