G 70.4 F58 **National Aeronautics and Space Administration**

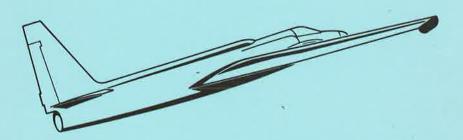
Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 76-089

Date 17 June 1976

FSR- 843





Data Management and Research Branch

Applications Division

Ames Research Center, Moffett Field, California

FLIGHT SUMMARY REPORT

Flight No: 76-089

Date: 17 June 1976

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FSR No: 843

Julian Date: 169

Sensor Package:

Dual RC-10 / Aerosol Particulate Sampler

Aircraft No:

(APS)

Purpose of Flight:

#2319 Support (LANDSAT)

Requestor: Brown #0047 Support Requestor: Ferry

Area(s) Covered:

Greater San Francisco Bay Area

SENSOR DATA

02340 Accession No: 02341 Sensor ID No: 035 036 024 Sensor Type: RC-10 RC-10 **APS** 6" Focal Length: 6" 153.46mm 153.19mm High Definition Aerial Color, Film Type: Aerochrome IR, S0-242 SO-127 Filtration: CC .30M + 2.2 AV2.2 AV

Spectral Band: 510-900nm 400-700nm f Stop: Shutter Speed: 1/150 1/250 No. of Frames: 72 72 % Overlap: 60 60 Quality: Excellent Excellent

Remarks:

Non-imaging sensor

FLIGHT SUMMARY

76-089

This was a LANDSAT Follow-on flight in support of Flight Requests #2319 (Brown, Department of Water Resources) and #0047 (Ferry, NASA/ARC) under the FY 1976 Airborne Instrumentation Research Program (AIRP) plan. Photographic and Aerosol Particulate Sampler (APS) data was obtained on a flight over the Greater San Francisco Bay Area in California (see Track Map).

The entire area was clear except for some heavy cumulus clouds along the coast. The imagery 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 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 NO. 76-089

	Check Points	Frame Numbers	Time (GMT-hr, min, sec)		Altitude, MSL	
NOT HELD			START	END	feet/meters	Cloud Cover/Remarks
RC-10	A-B	4195-4207	18;21;04	18:32:12	65,000/19800	Clear
#035	C-D	4208-4219	18:35:54	18:45:39	п	Clear
NO COT	E-F	4220-4231	18:49:05	18:59:21	Ü	Clear
FRAME COLLEGIA	G-H	4232-4242	19:02:55	19:12:37	i,	Clear
water (a	. I-J	4243-4254	19:15:51	19:26:20	ii .	10-50% cumulus over ocean, frs. 4243-4247
	K-L	4255-4266	19:29:24	19:39:58	ũ	10-100% cumulus over ocean, frs. 4255-4263
RC-10	A-B	9772-9784	18:21:04	18:32:12	u	Clear
#036	C-D	9785-9796	18:35:54	18:45:39	.11	Clear
	E-F	9797-9808	18:49:05	18:59:21	n	Clear
	G-H	9809-9819	19:02:55	19:12:37	0 ×	Clear
	I-J	9820-9831	19:15:51	19:26:20	u -	10-50% cumulus over ocean, frs. 9824-9831
	K-L	9832-9843	19:29:24	19:39:49	u u	10-100% cumulus over ocean, frs. 9832-9840
APS	A-L		18:18:	19:42:	ii	APS #1 and #2 opened and closed
					4	
		L				

