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**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

**FSR No:** 843

**Julian Date:** 169

**Sensor Package:** Dual RC-10 / Aerosol Particulate Sampler  
(APS)

**Aircraft No:** 5

**Purpose of Flight:** #2319 Support (LANDSAT)  
Requestor: Brown  
#0047 Support  
Requestor: Ferry

**Area(s) Covered:** Greater San Francisco Bay Area

## SENSOR DATA

<b>Accession No:</b>	02340	02341	---
<b>Sensor ID No:</b>	035	036	024
<b>Sensor Type:</b>	RC-10	RC-10	APS
<b>Focal Length:</b>	6" 153.46mm	6" 153.19mm	---
<b>Film Type:</b>	High Definition Aerochrome IR, S0-127	Aerial Color, S0-242	---
<b>Filtration:</b>	CC .30M + 2.2 AV	2.2 AV	---
<b>Spectral Band:</b>	510-900nm	400-700nm	---
<b>f Stop:</b>	4	4	---
<b>Shutter Speed:</b>	1/150	1/250	---
<b>No. of Frames:</b>	72	72	---
<b>% Overlap:</b>	60	60	---
<b>Quality:</b>	Excellent	Excellent	---
<b>Remarks:</b>	---	---	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 LINE DATA

FLIGHT NO. 76-089

NOT HELD

IN CUT  
FRAME  
COLLECTION

Check Points	Frame Numbers	Time (GMT—hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks
		START	END		
A-B	4195-4207	18:21:04	18:32:12	65,000/19800	Clear
C-D	4208-4219	18:35:54	18:45:39	"	Clear
E-F	4220-4231	18:49:05	18:59:21	"	Clear
G-H	4232-4242	19:02:55	19:12:37	"	Clear
I-J	4243-4254	19:15:51	19:26:20	"	10-50% cumulus over ocean, frs. 4243-4247
K-L	4255-4266	19:29:24	19:39:58	"	10-100% cumulus over ocean, frs. 4255-4263
A-B	9772-9784	18:21:04	18:32:12	"	Clear
C-D	9785-9796	18:35:54	18:45:39	"	Clear
E-F	9797-9808	18:49:05	18:59:21	"	Clear
G-H	9809-9819	19:02:55	19:12:37	"	Clear
I-J	9820-9831	19:15:51	19:26:20	"	10-50% cumulus over ocean, frs. 9824-9831
K-L	9832-9843	19:29:24	19:39:49	"	10-100% cumulus over ocean, frs. 9832-9840
A-L	---	18:18:--	19:42:--	"	APS #1 and #2 opened and closed



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DATA RUN

DUAL RC-10 /APS

