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National Aeronautics and Space Administration

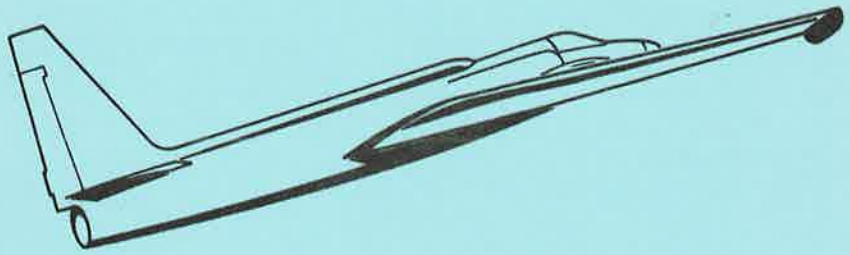
Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 76-060

Date 19 April 1976

FSR- 817



Data Research and Management Branch

Applications Division

Ames Research Center, Moffett Field, California

FLIGHT SUMMARY REPORT

Flight No: 76-060 **Date:** 19 April 1976

FSR No: 817 **Julian Date:** 110

Sensor Package: RC-10 / Aerosol Particulate Sampler (APS) **Aircraft No:** 5

Purpose of Flight: #0303 Support
Requestor: Estes
#0047 Support
Requestor: Ferry

Area(s) Covered: Central California

SENSOR DATA

Accession No:	02316	---
Sensor ID No:	036	024
Sensor Type:	RC-10	APS
Focal Length:	6" 153.19mm	---
Film Type:	High Definition Aerochrome Infrared, SO-127	---
Filtration:	CC .10B + 2.2 AV	---
Spectral Band:	510-900nm	---
f Stop:	4	---
Shutter Speed:	1/200	---
No. of Frames:	150	---
% Overlap:	60	---
Quality:	Good	---
Remarks:	---	Non-imaging sensor

FLIGHT SUMMARY

76-060

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. Photographic and Aerosol Particulate Sampler (APS) data was obtained on a flight over central California (see Track Map).

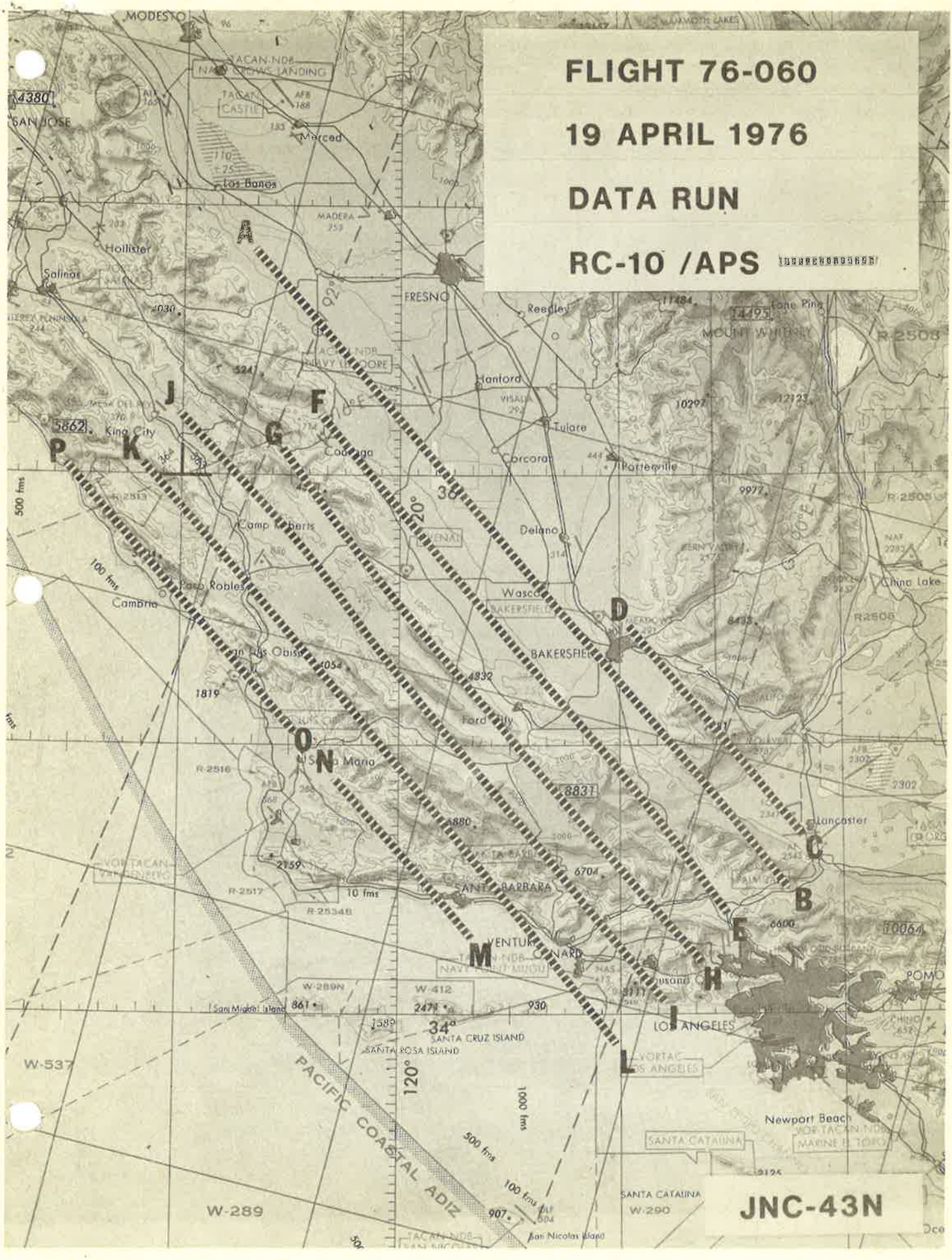
The weather for the entire flight was clear. The imagery obtained is slightly underexposed and rated good quality with no camera or processing malfunctions noted. This flight provides complementary coverage to Flight 76-059 over the San Joaquin Valley.

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. 76-060

	Check Points	Frame Numbers	Time (GMT—hr, min, sec) START	Time (GMT—hr, min, sec) END	Altitude, MSL feet/meters	Cloud Cover/Remarks
RC-10	A-B	4782-4808	18:53:06	19:17:48	65,000/19800	Clear
	C-D	4809-4817	19:21:38	19:28:39	"	"
	E-F	4818-4838	19:43:42	20:02:44	"	"
	G-H	4839-4860	20:06:15	20:26:24	"	"
	I-J	4861-4886	20:30:00	20:53:25	"	"
	K-L	4887-4913	20:56:58	21:21:34	"	"
	M-N	4914-4919	21:31:04	21:35:31	"	"
	O-P	4920-4931	21:40:55	21:50:47	"	"
APS	A-P	---	18:48:--	21:52:--	"	APS #1 opened and closed / IOAT -45°C


FLIGHT 76-060
19 APRIL 1976
DATA RUN
RC-10 /APS
JNC-43N
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
MODESTO
SAN JOSE
Merced
Los Banos
Hollister
Salinas
FRESNO
Reedley
Hanford
Visalia
Tulare
Corcoran
Porterville
King City
Coalinga
Delano
Camp Roberts
Paso Robles
Cambria
Wasco
BAKERSFIELD
China Lake
Lancaster
Ford City
Santa Maria
SANTA BARBARA
VENTURA
POMO
LOS ANGELES
Newport Beach
SANTA CATALINA
SANTA CRUZ ISLAND
SANTA ROSA ISLAND
San Nicolas Island
PACIFIC COASTAL ADIZ
W-537
W-289
W-289N
W-412
W-290
R-2516
R-2517
R-2513
R-2505
R-2508
R-2506
34°
120°
92°
38°
500 fms
100 fms
1000 fms
10 fms