National Aeronautics and Space Administration

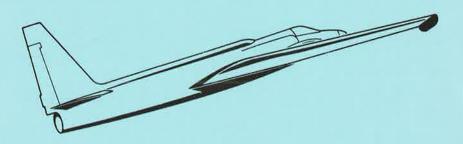
Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 76-067

Date 14 May 1976

FSR- 823





Data Management and Research Branch

Applications Division

Ames Research Center, Moffett Field, California

FLIGHT SUMMARY REPORT

Flight No: 76-067

Date: 14 May 1976

135

FSR No:

823

Julian Date:

Sensor Package:

Dual RC-10/Aerosol Particulate Sampler

Aircraft No: 4

Purpose of Flight:

#0488 Support

Requestors: Adams/Deerwester

#0047 Support Requestor: Ferry

Area(s) Covered:

Southern San Joaquin Valley, California

SENSOR DATA

Accession No:

02317

02318

Sensor ID No:

034

026

024

Sensor Type:

RC-10

RC-10

APS

Focal Length:

12" 304.66mm 12"

304.99mm

Film Type:

High Definition Aerochrome IR, Panatomic-X,

3400

SO-127

Filtration:

CC .10C + .10M

WRATTEN 12

...

Spectral Band:

510-900nm

510-700nm

f Stop:

5.6

8.0

Shutter Speed:

1/375

1/375

No. of Frames:

119

120

777

% Overlap:

60

60

Quality:

Good

Excellent

Remarks:

Underexposed

Non-imaging

sensor

FLIGHT SUMMARY

76-067

This flight was flown in support of Flight Requests #0488 (Adams/Deerwester, NASA/ARC) and #0047 (Ferry, NASA/ARC) under the FY 1976 Airborne Instrumentation Research Program (AIRP) plan. The flight obtained dual RC-10 (12" focal length) data over the southern San Joaquin Valley region in California. Aerosol Particulate Sampler (APS) data was collected on ascent over the Diablo Mountain Range (see Track Map).

Light cirrus and haze was encountered on all flight lines. The Panatomic-X (3400) film is of excellent quality. The High Definition Aerochrome Infrared (S0-127) film exhibits excellent color balance but is underexposed resulting in a good quality rating. No camera or processing malfunctions were noted.

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 NO. 76-067

	Check Points	Frame Numbers	Time (GMT-hr, min, sec)		Altitude, MSL	Cloud Cover/Remarks
			START	END	feet/meters	Cloud Cover/ nettidiks
-10	a-b	9576-9594	18:34:16	18:42:56	65,000/19800	Light haze and cirrus
034	c-d	9595-9613	18:46:09	18:54:48	п	R
	e-f	9614-9631	18:58:14	19:06:40	п	a
	g-h	9632-9652	19:12:35	19:22:30	п	и
	i-j	9653-9670	19:26:24	19:34:22	n	"
	k-1	9671-9694	19:37:29	19:46:56	n -	н :
-10	a-b	4055-4074	18:34:16	18:42:56	ii,	п
026	c-d	4075-4093	18:46:09	18:54:48	11	ii
	e-f	4094-4111	18:58:14	19:06:40	- 11	ii -
	g-h	4112-4132	19:12:35	19:22:30	n n	ii
	i-j	4133-4150	19:26:24	19:34:22	11	n
	k-1	4151-4174	19:37:29	19:46:56	ŤI	n e 28 J 5
PS	1		18:06:00	18:07:00	40,000/12200	APS #1 opened and closed; IOAT -40°C
	2		18:10:00	18:11:00	50,000/15220	APS #2 opened and closed; IOAT -42°C
	3		18:14:00	18:15:00	60,000/18300	APS #3 opened and closed; IOAT -36°C
				:		
2		· ·				
						2.1

