

National Aeronautics and Space Administration

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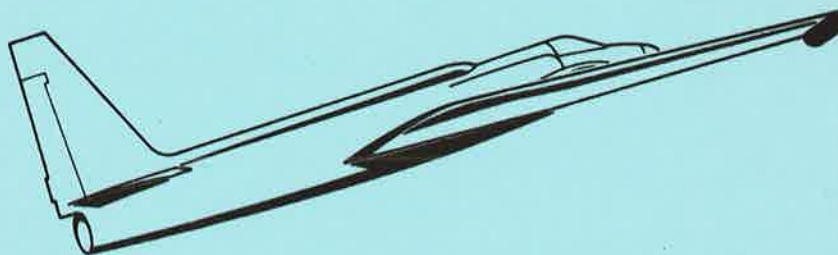
Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 75-176

Date 8 October 1975

FSR- 749



Data Research and Management Branch

Applications Division

Ames Research Center, Moffett Field, California

FLIGHT SUMMARY REPORT

Flight No: 75-176

Date: 8 October 1975

FSR No: 749

Julian Date: 281

Sensor Package: I²S Multispectral Camera
Aerosol Particulate Sampler (APS)

Aircraft No: 5

Purpose of Flight: #0331 Support
Requestor: Paul/Bryant
#0047 Support
Requestor: Ferry

Area(s) Covered: Los Angeles Basin, California

SENSOR DATA

Accession No:	02243	---
Sensor ID No:	005	024
Sensor Type:	I ² S	APS
Focal Length:	100mm	---
Film Type:	Infrared Aerographic, 2424	---
Filtration:	WRATTEN 47+ IR Blocking Filter	WRATTEN 57+ IR Blocking Filter
	WRATTEN 25+ IR Blocking Filter	WRATTEN 88A
Spectral Band:	440-560nm	540-620nm
	630-700nm	760-910nm
f Stop:	8.0	5.6
	5.6	11.0
Shutter Speed:	1/350	1/350
	1/350	1/350
No. of Frames:	133	---
% Overlap:	60	---
Quality:	Excellent	---
Remarks:		Non-imaging sensor

FLIGHT SUMMARY

75-176

This flight was flown in support of Flight Requests #0331 (Paul/Bryant, JPL) and #0047 (Ferry, NASA/ARC) under the FY 1976 Airborne Instrumentation Research Program (AIRP) plan. The flight provides I²S multi-spectral camera and Aerosol Particulate Sampler (APS) data over the Los Angeles Basin, California (see Track Map).

Minor scattered cumulus was encountered on the first and last flight lines in the vicinity of Palos Verdes peninsula. All other areas were clear. There were no camera or processing malfunctions noted and the data is rated excellent.

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. 75-176

Check Points	Frame Numbers	Time (GMT—hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks	
		START	END			
I ² S	a-b	0001-0028	18:42:59	18:56:58	65,000/19800	10-20% scattered cumulus, frs. 0021-0025
	c-d	0029-0054	19:00:32	19:14:07	"	Clear
	e-f	0055-0078	19:17:34	19:30:07	"	Clear
	g-h	0079-0105	19:36:07	19:50:04	"	Clear
	i-j	0106-0133	19:53:38	20:06:54	"	10% minor cumulus, frs. 0109-0110,0122-0123; Oblique frames 0130-0133
APS	1-2	---	18:20:--	18:30:--	"	APS #1 opened and closed
	3-4	---	18:46:--	18:36:--	"	APS #2 opened and closed

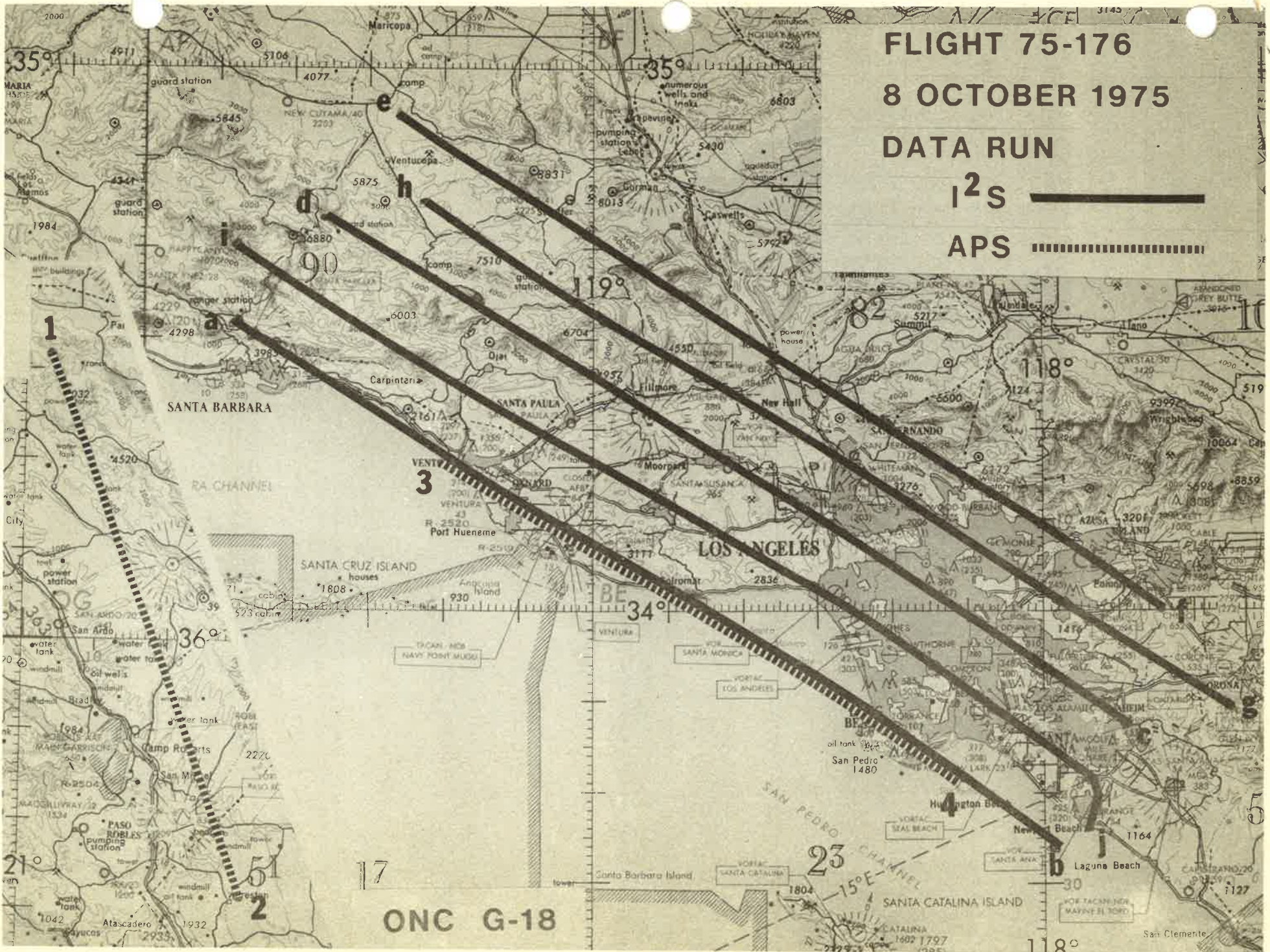
FLIGHT 75-176

8 OCTOBER 1975

DATA RUN

1²S

APS



ONC G-18