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# Airborne Instrumentation Research Project

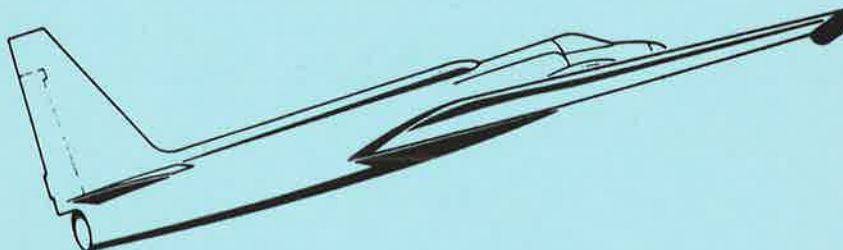
## Flight Summary Report

Flight No. 79-028

Date 3 April 1979

24"

FSR- 1238



# NASA

National Aeronautics and  
Space Administration

**Ames Research Center**  
Moffett Field, California 94035

**Airborne Missions and Applications Division**

# FLIGHT SUMMARY REPORT

**Flight No:** 79-028

**Date:** 3 April 1979

**FSR No:** 1238

**Julian Date:** 093

**Sensor Package:** HR-732  
Aerosol Particulate Sampler (APS)

**Aircraft No:** 4

**Purpose of Flight:** #0666 Support  
Requestor: Bauer/Lumb  
#0047 Support  
Requestor: Ferry

**Area(s) Covered:** Ventura County, California

## SENSOR DATA

<b>Accession No:</b>	02711	---
<b>Sensor ID No:</b>	039	024
<b>Sensor Type:</b>	HR-732	APS
<b>Focal Length:</b>	24" 609.6mm	---
<b>Film Type:</b>	High Definition Aerochrome Infrared, S0-127	---
<b>Filtration:</b>	CC .20B	---
<b>Spectral Band:</b>	510-900nm	---
<b>f Stop:</b>	8	---
<b>Shutter Speed:</b>	1/75	---
<b>No. of Frames:</b>	219	---
<b>% Overlap:</b>	60	---
<b>Quality:</b>	Excellent	---
<b>Remarks:</b>	---	Non-imaging sensor

## FLIGHT SUMMARY

79-028

This flight was flown in support of Flight Requests #0666 (Bauer/ Lumb, NASA/ARC) and #0047 (Ferry, NASA/ARC) under the FY 1979 Airborne Instrumentation Research Program (AIRP) plan. Photographic data was acquired over Ventura County in southern California (see Track Map). Aerosol Particulate Sampler (APS) data was acquired during descent, but is not indicated on the track map.

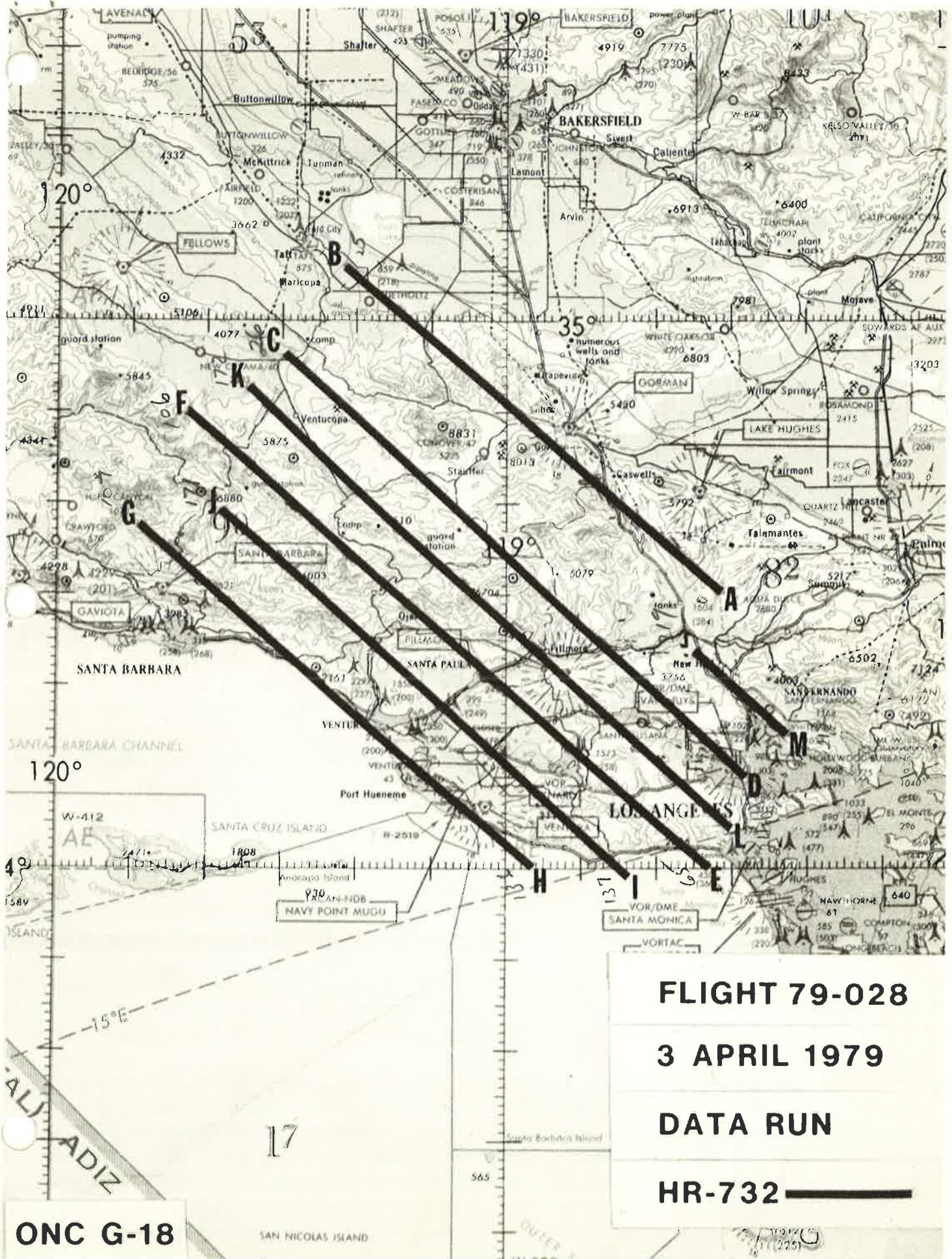
The entire flight was cloud-free except for some light scattered cumulus encountered at the beginning of the flight. There was a film transport malfunction which resulted in numerous double and triple film advances, causing the camera to run out of film during the final data line (M-N). This line will be reflown at a later date. The quality of the data is rated excellent with no other camera or processing malfunctions noted.

The APS has been developed and is operated by Dr. Guy Ferry of the NASA-Ames Research Center Atmospheric Experiments Branch. The sampler is a non-imaging sensor designed to gather high altitude dust particles for laboratory research.

# FLIGHT LINE DATA

FLIGHT NO. 79-028

Check Points	Frame Numbers	Time (GMT— hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks	
		START	END			
HR-732	A-B	0001-0025	21:20:56	21:26:32	65,000/19800	Light scattered cumulus, frs. 0020-0025
	C-D	0026-0064	21:32:25	21:41:46	"	Clear
	E-F	0065-0106	21:44:58	21:55:04	"	Clear
	G-H	0107-0136	21:59:34	22:06:41	"	Clear
	I-J	0137-0171	22:13:58	22:22:19	"	Clear
	K-L	0172-0211	22:26:49	22:36:25	"	Clear
	M-N	0212-0219	22:39:27	22:41:09	"	Clear; camera ran out of film
APS	---	-----	23:00:00	23:02:00	60,000/18300	APS #2 exposed and sealed
	---	-----	23:06:00	23:09:00	50,000/15250	APS #3 exposed and sealed
	---	-----	23:13:00	23:16:00	40,000/12200	APS #1 exposed and sealed



**FLIGHT 79-028**

**3 APRIL 1979**

**DATA RUN**

**HR-732**

**ONC G-18**

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