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70.4
F58

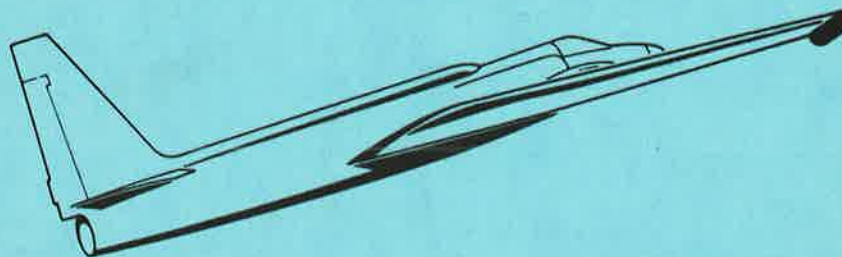
Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 83-127

Date 23 June 1983

FSR- 1764



NASA

National Aeronautics and
Space Administration

Ames Research Center
Moffett Field, California 94035

Airborne Missions and Applications Division

FLIGHT SUMMARY REPORT

Flight No: 83-127

Date: 23 June 1983

FSR No: 1764

Julian Date: 174

Sensor Package: A-4 Configuration

Aircraft No: 709

Purpose of Flight: #0985 Support
Requestor: Office of Emergency Services
#0790 Support
Requestor: Pollack

Area(s) Covered: Southern California
Big Sur

*ordered
5/18/83*

SENSOR DATA

Accession No:	03222	03223	---
Sensor ID No:	026	038	024
Sensor Type:	RC-10	HR-732	APS
Focal Length:	12" 304.97mm	24" 609.6mm	---
Film Type:	High Definition Aerochrome Infrared, S0-131	High Definition Aerochrome Infrared, S0-131	---
Filtration:	CC .10B	CC .40 B	---
Spectral Band:	510-900nm	510-900nm	---
f Stop:	4	8	---
Shutter Speed:	1/225	1/75	---
No. of Frames:	139	145	---
% Overlap:	60	60	---
Quality:	Excellent	Excellent	---
Remarks:	---	---	Non-imaging Sensor

FLIGHT SUMMARY

83-127

This flight was flown in support of Flight Requests #0985 (OES, State of California) and #0790 (Pollack, NASA/ARC) under the FY 1983 Airborne Instrumentation Research Program (AIRP) plan. RC-10 photographic coverage was obtained over the Transverse Range in Southern California. Also, HR-732 photographic coverage was obtained over the Coast Range at Point Sur, California. Additionally, aerosol particulate sampler data was collected as part of a long-term exposure project, but is not depicted on the track map.

Minor coastal fog was encountered over portions of the flight. The data block digital clock on the HR-732 malfunctioned; therefore, times for photo frames were taken from the pilot's log. No processing malfunctions were encountered, and the quality of the data is rated excellent.

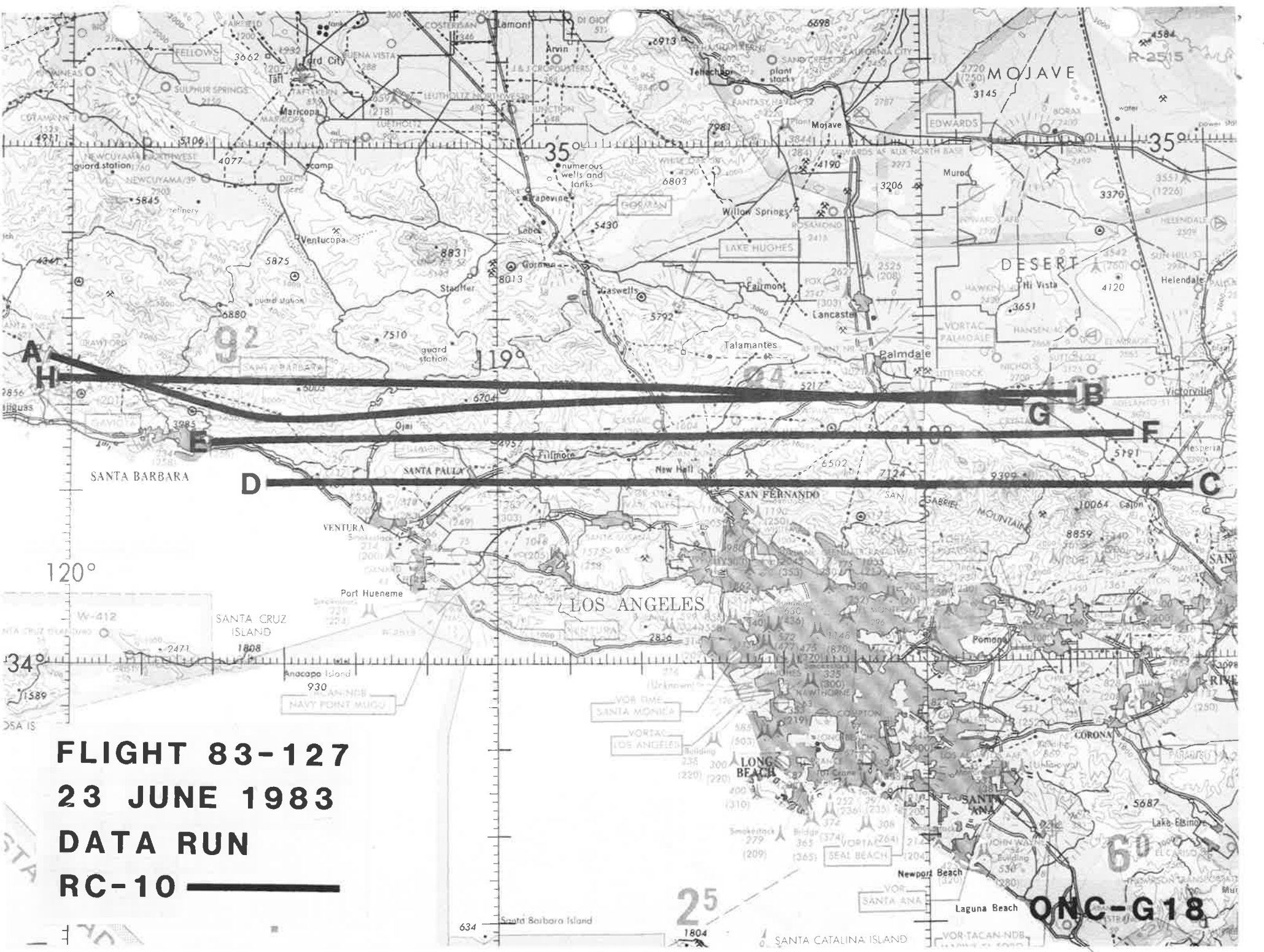
Aerosol Particulate Sampler

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

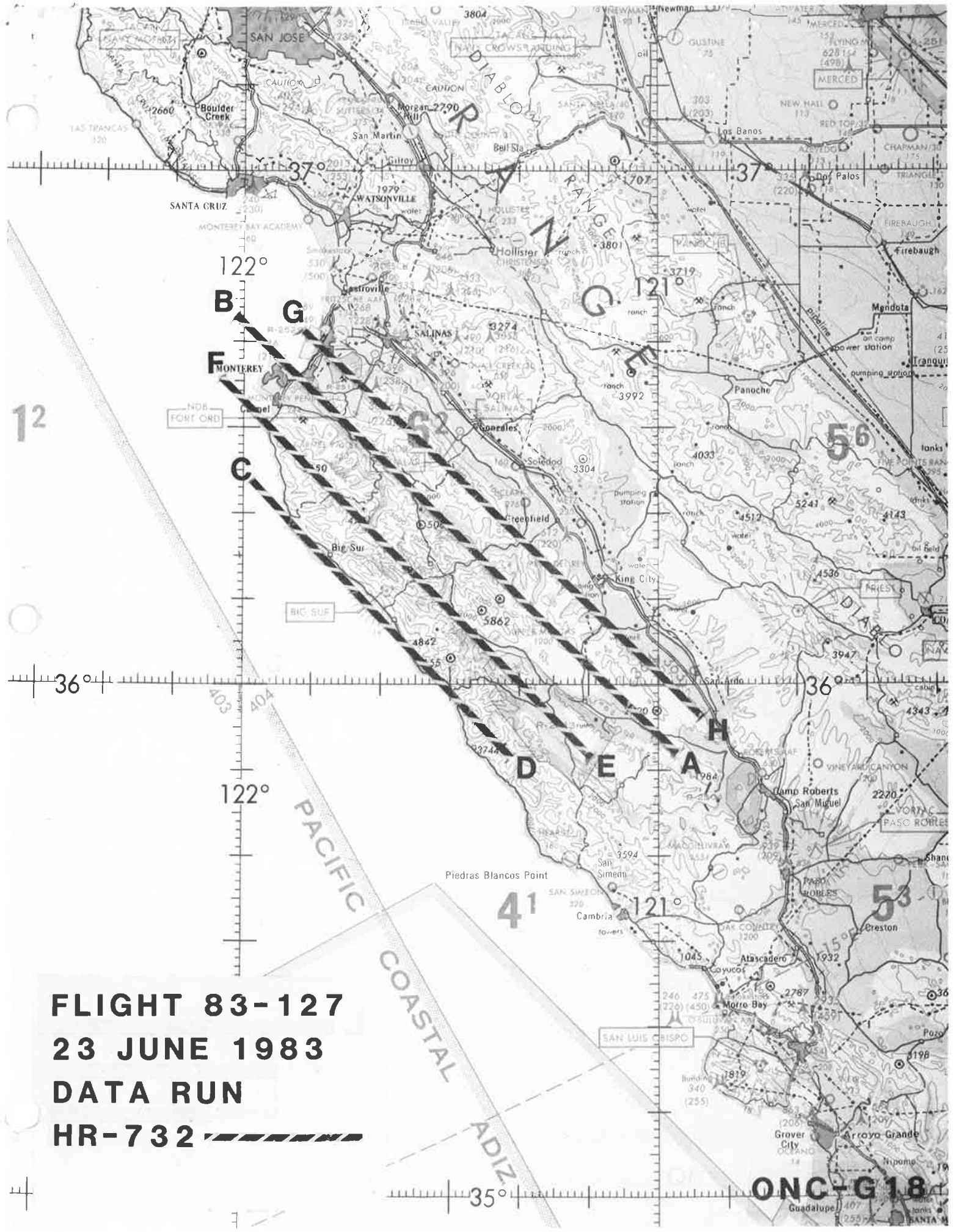
FLIGHT NO. 83-127

	Check Points	Frame Numbers	Time (GMT—hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks
			START	END		
RC-10 026	A-B	4523-4561	18:42:20	19:00:00	61,000/18598	10-30% coastal fog, frs. 4523-4532
	C-D	4562-4593	19:07:14	19:22:29	"	Clear
	E-F	4594-4628	19:31:16	19:46:35	"	Minor stratus, frs. 4594-4598
	G-H	4629-4661	19:55:01	20:10:12	"	Clear
HR-732 038	A-B	0001-0040	20:24:00	20:33:00	65,000/19800	Clear
	C-D	0041-0070	20:37:00	20:45:00	"	"
	E-F	0071-0105	20:51:00	21:00:00	"	"
	G-H	0106-0145	21:03:00	21:13:00	"	"
APS 024	---	---	18:15:00	21:13:00	65,000/19800	APS #1 and #2 exposed full time above 60,000 feet for 2 hours and 38 minutes



FLIGHT 83-127
23 JUNE 1983
DATA RUN
RC-10

ONC-G18



12

122°

121°

B

G

F

G

C

36°

36°

122°

121°

41

53

FLIGHT 83-127
23 JUNE 1983
DATA RUN
HR-732

ONC-G 18

35°