

OVERSIZE

National Aeronautics and Space Administration

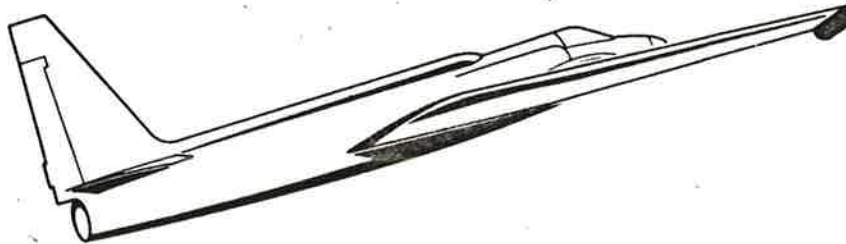
Earth Resources Aircraft Project

Flight Summary Report

Flight No. 73-173

Date 10 October 1973

FSR- 369



EROS DATA CENTER
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Airborne Science Office

Ames Research Center, Moffett Field, California

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NASA/ARC Earth Resources Aircraft Project

FLIGHT SUMMARY REPORT

Flight No: 73-173

Date: 10 October 1973

Aircraft No: 4

Julian Date: 283

Sensor Package: A-1 Configuration (vertical cameras only)
Aerosol Particulate Sampler (APS)

Purpose of Flight: ERTS-1 Aircraft Support
Proposal No. 275-4

Area(s) Covered: Northern Sacramento Valley, California

SENSOR DATA

Accession No:	01494	01495	-----
Sensor ID No:	006	009	024
Sensor Type:	HC-730V	HR-732	Aerosol Particulate Sampler
Lens Focal Length:	6"	24"	
Film Type:	Aerochrome Infrared, 2443	Aerochrome Infrared, 2443	-----
Spectral Band:	510-900nm	510-900nm	-----
f Stop:	11	11	-----
Shutter Speed:	1/150	1/75	-----
No. of Frames:	32	128	-----
% Overlap	60	60	-----
Quality	Good	Good	-----
Remarks			Non-imaging sensor

FLIGHT SUMMARY

73-173

This is an ERTS-1 Aircraft Support flight for Proposal No. 275-4 (Poulton) covering a major portion of the Sacramento Valley region (see Track Map).

Most of the imagery obtained was affected by light cirrus cloud cover conditions (see Flight Line Data). All imagery is of good quality and exposure. The color balance, however, is affected to some degree by the cirrus cloud cover. The interframe spacing on the first ten frames of the HR-732 camera film is erratic. This condition is due to slack in the film transport mechanism and does not affect the quality of the imagery.

On this flight the Aerosol Particulate Sampler (APS) was also employed in support of the Planetary Science Applications Branch, NASA-Ames Research Center under the auspices of Dr. Guy Ferry. 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.

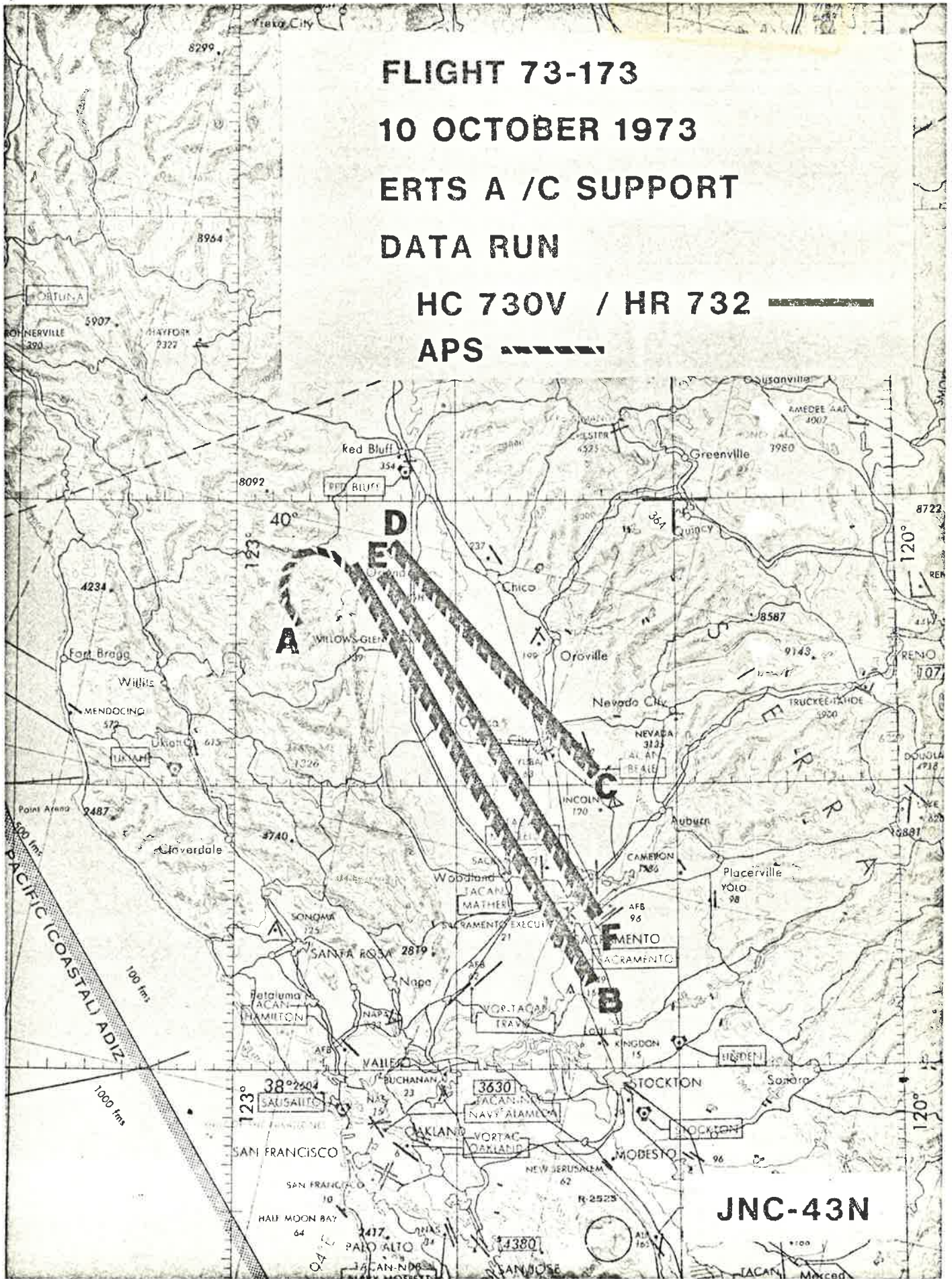
FLIGHT LINE DATA

FLIGHT NO. 73-173

Check Points	Frame Numbers	Time (GMT - hr, min, sec)		Altitude, MSL (feet)	Cloud Cover/Remarks	
		START	END			
HC730V	A-B C-D E-F	094-006 007-014 015-025	18:30:50 18:51:37 19:08:29	18:43:10 18:59:49 19:18:45	65,000 " "	10% light cirrus, frs. 095-097; rest clear 10% light cirrus 10% light cirrus
HR732	A-B C-D E-F	0001-0051 0052-0083 0084-0128	18:30:58 18:52:03 19:07:58	18:43:28 19:00:03 19:18:19	65,000 " "	10% light cirrus, frs. 0005-0015; rest clear 10% light cirrus 10% light cirrus
APS	A-F	-----	18:25:--	19:19:30	65,000	APS #1 and #2 open-seal

**FLIGHT 73-173
10 OCTOBER 1973
ERTS A / C SUPPORT
DATA RUN**

**HC 730V / HR 732
APS**



JNC-43N