

National Aeronautics and Space Administration

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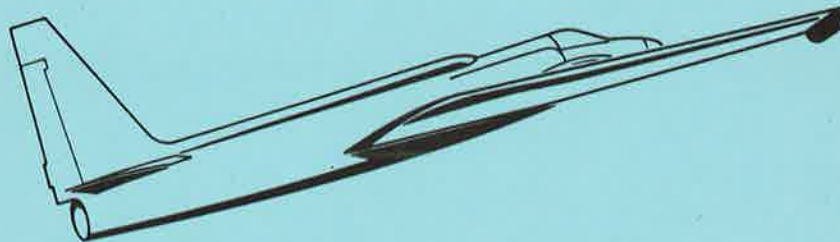
Earth Resources Aircraft Project

Flight Summary Report

Flight No. 75-074

Date 23 May 1975

FSR- 650



Airborne Science Office

Ames Research Center, Moffett Field, California

FLIGHT SUMMARY

75-074

This flight supports Flight Requests #0303 (Colwell, UC Berkeley) and #0047 (Ferry, NASA/ARC) under the CY 1975 Earth Observations Aircraft Program (EOAP) plan. The flight provides photographic and Aerosol Particulate Sampler (APS) data over Kern County and the south-central coastal area in California (see Track Map).

The weather over the Kern County test area was clear. Some moderate cumulus was encountered over the coast between Pismo Beach and Morro Bay, California. The A-3 camera configuration was employed on this flight. Due to the roll length of the Aerochrome Infrared film and the amount of the area to be covered, each camera was operated individually to acquire all of the data on one flight. A minor magazine light leak on camera #018 resulted in a few frames at the beginning and end of the roll being partially unusable. Both rolls are rated good with no other camera or processing malfunctions noted.

The Aerosol Particulate Sampler (APS) 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.

NASA/ARC Earth Resources Aircraft Project

FLIGHT SUMMARY REPORT

FSR: 650

Flight No: 75-074

Date: 23 May 1975

Aircraft No: 4

Julian Date: 143

Sensor Package: A-3 Configuration (two cameras only)
Aerosol Particulate Sampler (APS)

Purpose of Flight: #0303 Support
Requestor: Colwell
#0047 Support
Requestor: Ferry (APS)

Area(s) Covered: Kern County and South-central Coast,
California

SENSOR DATA

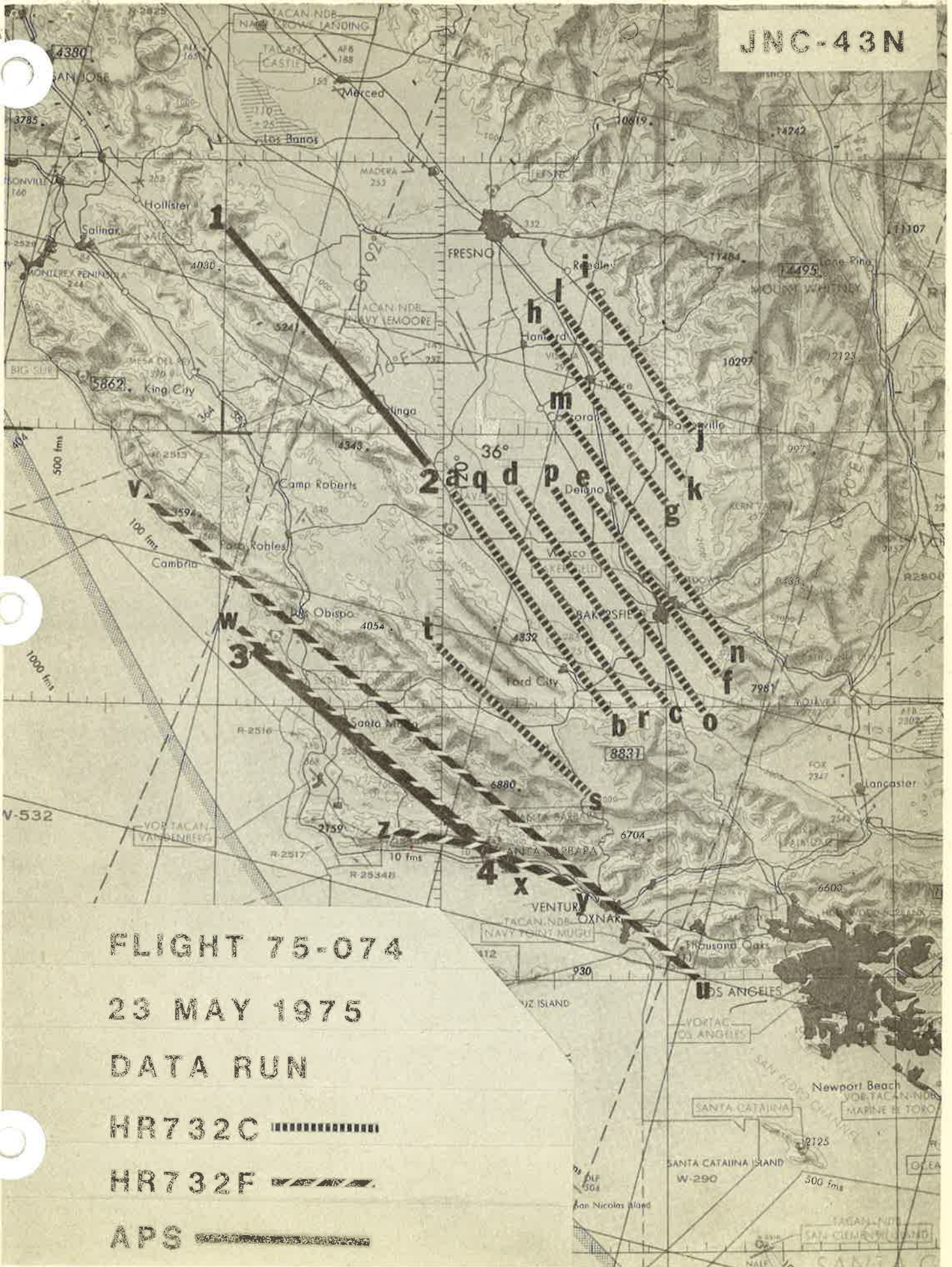
Accession No:	02120	02121	---
Sensor ID No:	019	018	024
Sensor Type:	HR-732C	HR-732F	APS
Lens Focal Length:	24"	24"	---
Film Type:	Aerochrome Infrared, 2443	Aerochrome Infrared, 2443	---
Filtration:	WRATTEN 12 + CC .40B + .10C	WRATTEN 12 + CC .10B + .10C	---
Spectral Band:	510-900nm	510-900nm	---
f Stop:	9	8	---
Shutter Speed:	1/130	1/250	---
No. of Frames:	308	166	---
% Overlap:	60	60	---
Quality:	Good	Good	---
Remarks:	---	Magazine light leak	Non-imaging sensor

FLIGHT LINE DATA

FLIGHT NO. 75-074

Check Points	Frame Numbers	Time (GMT - hr. min. sec)		Altitude, MSL (feet)	Cloud Cover/Remarks	
		START	END			
HR732C	a-b	0001-0037	17:31:14	17:40:11	65,000	Clear
	c-d	0038-0071	17:44:17	17:52:32	"	"
	e-f	0072-0099	17:57:10	18:04:55	"	"
	g-h	0100-0127	18:13:02	18:19:46	"	"
	i-j	0128-0149	18:22:49	18:27:04	"	"
	k-l	0150-0176	18:32:01	18:38:32	"	"
	m-n	0177-0214	18:44:18	18:54:32	"	"
	o-p	0215-0248	18:57:35	19:05:49	"	"
	q-r	0249-0281	19:09:52	19:18:51	"	"
s-t	0282-0308	19:22:56	19:28:27	"	"	
HR732F	u-v	0001-0094	19:47:35	20:10:53	65,000	0-30% cumulus along coastline, frs. 0072-94
	w-x	0095-0143	20:18:58	20:30:58	"	10-40% cumulus along coastline, frs. 0095-97
	y-z	0144-0166	20:34:58	20:41:28	"	Clear
APS	1-2	---	17:20:--	17:30:--	65,000	APS #1 opened and closed
	3-4	---	20:20:--	20:30:--	"	APS #2 opened and closed

JNC-43N



FLIGHT 75-074

23 MAY 1975

DATA RUN

HR732C 

HR732F 

APS 