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National Aeronautics and Space Administration

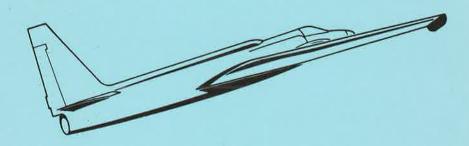
Earth Resources Aircraft Project

Flight Summary Report

Flight No. 74-074

Date 9 May 1974

FSR- 456







Airborne Science Office

Ames Research Center, Moffett Field, California

NASA/ARC Earth Resources Aircraft Project FLIGHT SUMMARY REPORT

FSR: 456

Flight No: 74-074

Date: 9 May 1974

Aircraft No: 4

Julian Date: 129

Sensor Package:

Vinten System B/RC-10

Aerosol Particulate Sampler (APS)

Purpose of Flight: ERAP Data R&D Support

74-SR-0047 Support (APS)

Area(s) Covered:

Merced County, California

SENSOR DATA

Accession No:	01745	01746	01747	01748	01749	
Sensor ID No:	011	012	013	014	023	
Sensor Type:	Vinten	Vinten	Vinten =	Vinten	RC-10	
Lens Focal Length:	1-3/4"	1-3/4"	1-3/4"	1-3/4"	6"	
Film Type:	Plus-X, 2402	Plus-X, 2402	Infrared Aerographic, 2424	Aerochrome Infrared, 2443	Panatomic-X Aerographic 3400	
Spectral Band:	475-575nm	580-680nm	690-760nm	510-900nm	510-700nm	
			¥			
f Stop:	16	13.5	9.5	9.5	8	
Shutter Speed:	1/250	1/250	1/250	1/250	1/200	
No. of Frames:	68	68	68	68	58	
% Overlap	60	60	60	60	60	
Quality	Excellent	Excellent	Excellent	Excellent	Excellent	
Remarks	Aerosol Particulate Sampler (APS), Sensor ID No. 024, also flown (non-imaging sensor)					

FLIGHT SUMMARY

74-074

This flight was conducted in support of the ERAP Data Facility's R&D Program concerned with developing analysis techniques for deriving and quantifying land use and other types of information from high altitude photography. The test area selected for this program is Merced County, California.

All camera imagery obtained on this flight is of excellent quality with no malfunctions noted. The entire test area was cloud-free.

The Aerosol Particulate Sampler (APS) was also flown on this flight in support of the Planetary Sciences and Applications Branch of 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. 74-074

	Check	Frame Numbers	Time (GMT-hr. min, sec)		Altitude, MSL	Cloud Cover/Remarks		
	Points		START	END	(feet)	Gloud Govery Heritaria		
VINTEN	A-B	0001-0014	18:29:44	18:40:29	65,000	Clear		
	C-D	0015-0027	18:45:01	18:54:32	11	ŭ .		
	E-F	0028-0039	18:58:18	19:07:25	n	п *		
	G-H	0040-0053	19:11:32	19:22:17	31	9		
	I-J	0054-0068	19:25:54	19:37:28	11	п		
	. ,					É		
RC-10	A-B	7067-7078	18:29:46	18:40:28	65,000	Clear		
KC-10	C-D	7079-7089	18:45:10	18:54:32	n	п		
	E-F	7090-7099	18:58:25	19:07:12	Ü	"		
	G-H≃	7100-7111	19:11:27	19:22:10	11	и _% ,		
	I-J	7112-7124	19:25:48	19:37:29	n.	п		
APS	1-2		18:20:00	18:50:00	65,000	APS #1 opened and closed		
AFS	2-3		18:50:00	19:20:00	u	APS #2 opened and closed		
				7.				
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						A		

