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National Aeronautics and Space Administration

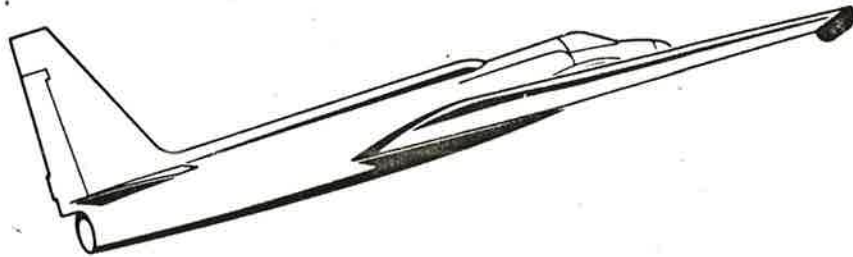
Earth Resources Aircraft Project

Flight Summary Report

Flight No. 73-176

Date 17 October 1973

FSR- 372



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Airborne Science Office

Ames Research Center, Moffett Field, California

NASA/ARC Earth Resources Aircraft Project

FLIGHT SUMMARY REPORT

Flight No: 73-176

Date: 17 October 1973

Aircraft No: 4

Julian Date: 290

Sensor Package: A-3 Configuration

Purpose of Flight: FE 3432 Water Penetration Film Test

Area(s) Covered: Lake Tahoe, Clear Lake, Carquinez Strait,
San Francisco Bay, California

SENSOR DATA

Accession No:	01501	01502	01503
Sensor ID No:	018	019	020
Sensor Type:	HR-732	HR-732	HR-732
Lens Focal Length:	24"	24"	24"
Film Type:	FE 3432	Aerochrome Infrared, 2443	Ektachrome EF, S0-397
Spectral Band:	460-580nm	510-900nm	400-700nm
f Stop:	11	11	11
Shutter Speed:	1/250	1/150	1/250
No. of Frames:	55	55	55
% Overlap	60	60	60
Quality	Good	Good	Good
Remarks	Both the S0-397 and 2443 films were overexposed by one-half stop to provide more water detail.		

FLIGHT SUMMARY

73-176

This flight was conducted to evaluate the utility of an experimental Eastman Kodak color film FE 3432, designed for water penetration. The A-3 Configuration camera system was employed so that simultaneous data could be acquired with two other film emulsions for comparison (SO-397 and 2443). Both of the comparison films were deliberately overexposed by one-half stop to enhance water detail.

Effectiveness of the test was marred by heavy haze conditions over Clear Lake and the San Francisco Bay area (see Flight Line Data). The Lake Tahoe area, however, was clear and the imagery of that site provides a useful comparison.

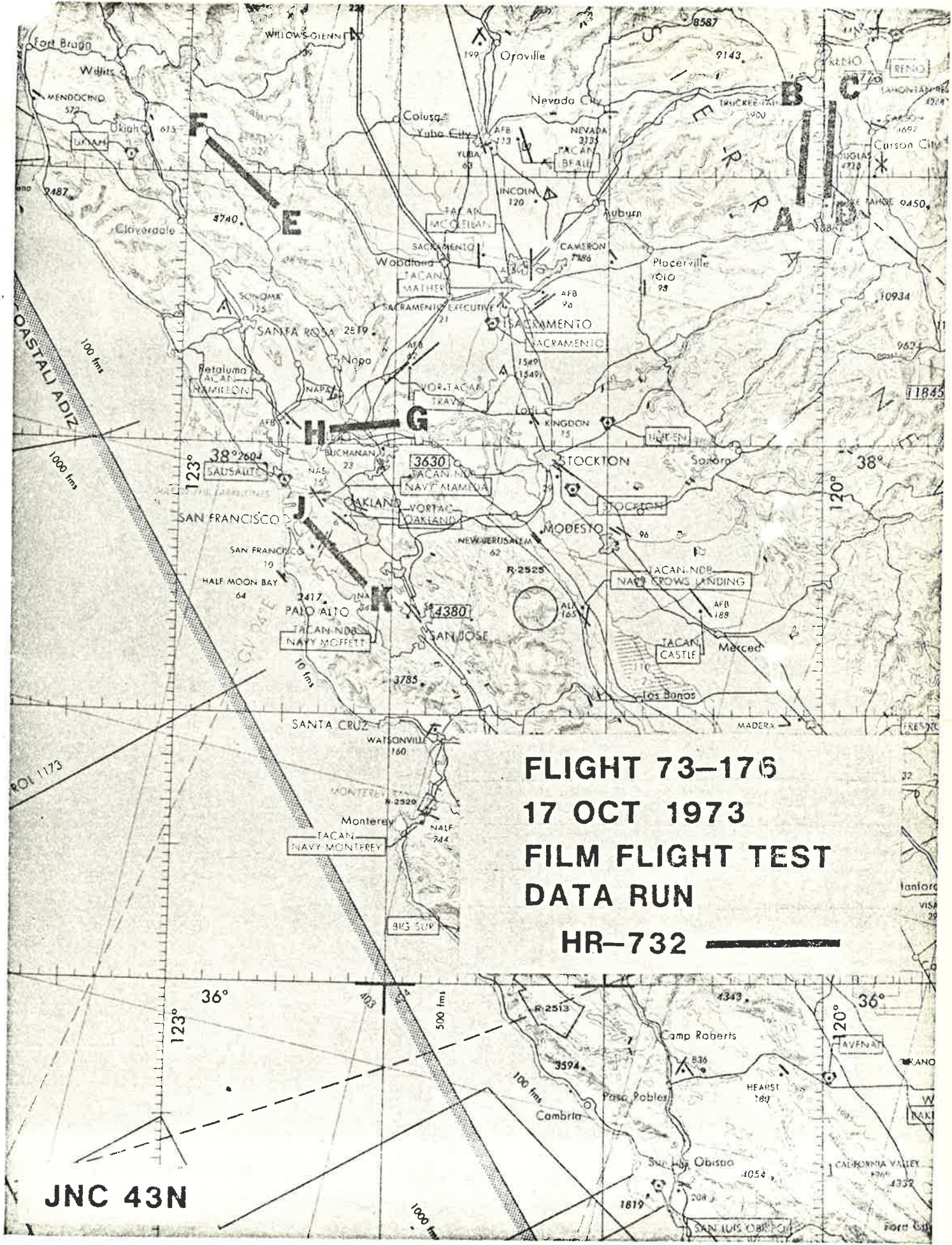
No malfunctions are noted and all three films are rated of good quality.

FLIGHT LINE DATA

FLIGHT NO. 73-176

A-3 CONFIGURATION

Check Points	Frame Numbers	Time (GMT - hr, min, sec)		Altitude, MSL (feet)	Cloud Cover/Remarks
		START	END		
A-B	0010-0022	18:30:07	18:33:26	65,000	Clear
C-D	0023-0035	18:38:27	18:41:25	"	"
E-F	0036-0047	19:02:09	19:04:52	"	Light Haze
G-H	0048-0052	19:20:52	19:21:52	"	Heavy Haze
J-K	0053-0064	19:27:19	19:30:01	"	Heavy Haze



FLIGHT 73-176
17 OCT 1973
FILM FLIGHT TEST
DATA RUN
HR-732

JNC 43N