

National Aeronautics and Space Administration

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Earth Resources Aircraft Project

Flight Summary Report

Flight No. 72-110

Date 5 July 1972

FSR- 123



Airborne Science Office

Ames Research Center, Moffett Field, California

19 July 1972

NASA/ARC Earth Resources Aircraft Project

FLIGHT SUMMARY REPORT

Flight No: 72-110

Date: 5 July 1972

Aircraft No: 4

Julian Date: 187

Sensor Package Vinten System B/RC-10

Purpose of Flight ERTS-A Aircraft Support Flight
 Proposal #~~377~~ (044) - Northern California
 317

SENSOR DATA

Accession No.	00488	00489	00490	00491	00492
Sensor ID No.	011	012	013	014	017
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	Aerochrome Infrared, 2443
Spectral Band	475-575nm	580-680nm	690-760nm	510-900nm	510-900nm
f Stop:	16	16	11	13.5	8
Shutter Speed	1/250	1/250	1/250	1/250	1/500
No. of Frames.	205	205	199	205	117

PREVIOUS COVERAGE

<u>FLIGHT NO.</u>	<u>DATE</u>	<u>SENSOR PACKAGE</u>
72-045 (Contingency)	17 March 1972	A-1 Configuration

FLIGHT SUMMARY

72-110

This is an ERTS-A Aircraft Support flight for ERTS Proposal #317(044). The programmed area of coverage includes most of the Coast Range of northwestern California. Due to coastal fog, the westernmost flight lines were not flown. These were subsequently picked up on Flight 72-111B. Additionally, the RC-10 camera was erroneously loaded with too short a load of film and did not run the full length of the flight. This shortage was subsequently picked up as Flight 72-119B.

The quality of all imagery from this flight is generally good. The color infrared film of the RC-10 camera has excellent color balance, saturation and discrimination. The color infrared film of camera 014 sustained minor emulsion scratches and the film from camera 013 ran out a few frames prior to the end of the flight.

FLIGHT LINE DATA

FLIGHT NO. 72-110

VINTEN

Flight Line No.	Check Points	Frame Numbers	Time (GMT - hr, min, sec)		Altitude, MSL (feet)	Weather/ Cloud Cover	Remarks
			START	END			
	B-C	0001-0019	18 28 07	18 42 40	65,000	Clear	
	C-D	0020-0068	18 45 25	19 24 50	"	"	
	D-E	0069-0117	19 27 40	20 07 18	"	"	
	E-F	0118-0164	20 10 21	20 48 15	"	10-20% frs. 118-125	Coastal fog
	F-G	0165-0203	20 58 02	21 29 08	"	10% frs. 157- 164	" "
						30-50% frs. 165-167	" "
						10-20% frs. 168-170	" "
						10% fr. 196	" "
						40-50% frs. 197-203	" "
	H	0204-0205	21 33 57	21 34 42	"	Clear	S. F. Peninsula

FLIGHT LINE DATA

FLIGHT NO. 72-110

RC-10

Flight Line No.	Check Points	Frame Numbers	Time (GMT - hr, min, sec)		Altitude, MSL (feet)	Weather/ Cloud Cover	Remarks
			START	END			
	B-C	2405-2420	18 28 39	18 43 12	65,000	Clear	
	C-D	2421-2462	18 45 56	19 25 28	"	"	
	D-E	2463-2504	19 28 13	20 07 55	"	"	
	E-E1	2505-2521	20 10 55	20 26 27	"	10% frs. 2505-2510	Coastal fog

FLIGHT 72-110
5 July 1972
ERTS A/C SUPPORT
DATA RUN
Vinten
Vinten/RC-10

