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National Aeronautics and Space Administration

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Earth Resources Aircraft Project

## Flight Summary Report

Flight No. 72-075

Date 10 May 1972

FSR- 90



Airborne Science Office

Ames Research Center, Moffett Field, California

29 June 1972

# NASA/ARC Earth Resources Aircraft Project

## FLIGHT SUMMARY REPORT

Flight No: 72-075

Date: 10 May 1972

Aircraft No: 4

Julian Date: 131

Sensor Package: Vinten System A/RC-10

Purpose of Flight: RC-10 Camera Test - Monterey County, CA.

### SENSOR DATA

Accession No:	00333	00334	00335	00336
Sensor ID No:	001	002	003	016
Sensor Type:	Vinten	Vinten	Vinten	RC-10
Lens Focal Length:	1-3/4"	1-3/4"	1-3/4"	6"
Film Type:	Plus X, 2402	Plus X, 2402	Infrared Aerographic, 2424	Plus X, 2402
Spectral Band:	475-575nm	580-680nm	690-760nm	510-700nm
f Stop:	11	11	9.5	Variable
Shutter Speed:	1/250	1/250	1/250	1/500
No. of Frames:	74	77	77	87

### PREVIOUS COVERAGE

<u>FLIGHT #</u>	<u>DATE</u>	<u>SENSOR PACKAGE</u>
72-032	1 March 1972	RC-8 Test Flight

## FLIGHT SUMMARY

72-075

This flight was conducted as a camera test for the RC-10 Wild Heerbrug mapping camera. The Vinten camera system was also flown. Only the film from cameras 001, 002 and 003 are accessioned - the S0-242 film from camera 004 was too underexposed to be useful. Since this was a test flight, the data annotation system for the Vinten cameras was left off for maintenance.

All flight lines were clear except for coastal fog over Monterey Bay and along the San Francisco Peninsula (see Flight Line Data).

Exposure density for the RC-10 varies due to the change in f stop settings during the flight. This was done to evaluate optimum settings for future flights.

Quality of all imagery from this flight is good. Camera 001 ran out of film near the end of the flight and has only 74 exposures vs 77 exposures for the other Vintens. Frames 1 and 2 of camera 003 fogged due to insufficient pre-flight camera clearing.

## FLIGHT LINE DATA

FLIGHT NO. 72-075

Flight Line No.	Check Points	Frame Numbers	Time (GMT—hr, min, sec)		Altitude, MSL (feet)	Weather/ Cloud Cover	Remarks
			START	END			
VINTEN	B-C	0001-0023	No times	No times	65,000	Clear	Ran out of film on last leg of flight line camera 001
	C-D	0024-0049	See RC-10 data		"	Coastal fog Monterey Bay	
	D-E	0050-0054			"	"	
	E-F	0055-0077				Clear	
RC-10	A-B	0102-0121	17 07 18	17 35 19	40,000-65,000	Coastal fog	f stop 8
	B-C	0122-0143	17 36 16	17 45 15	65,000	Clear	f stop 8
	C-D	0144-0165	17 46 13	18 06 10	"	Coastal fog	f stop 5.6
	D-E	0166-0169	18 07 04	18 11 58	"	Coastal fog	f stop 5.6
	E-F	0170-0189	18 12 50	18 29 40	"	Clear	f stop 11

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FLIGHT 72-075

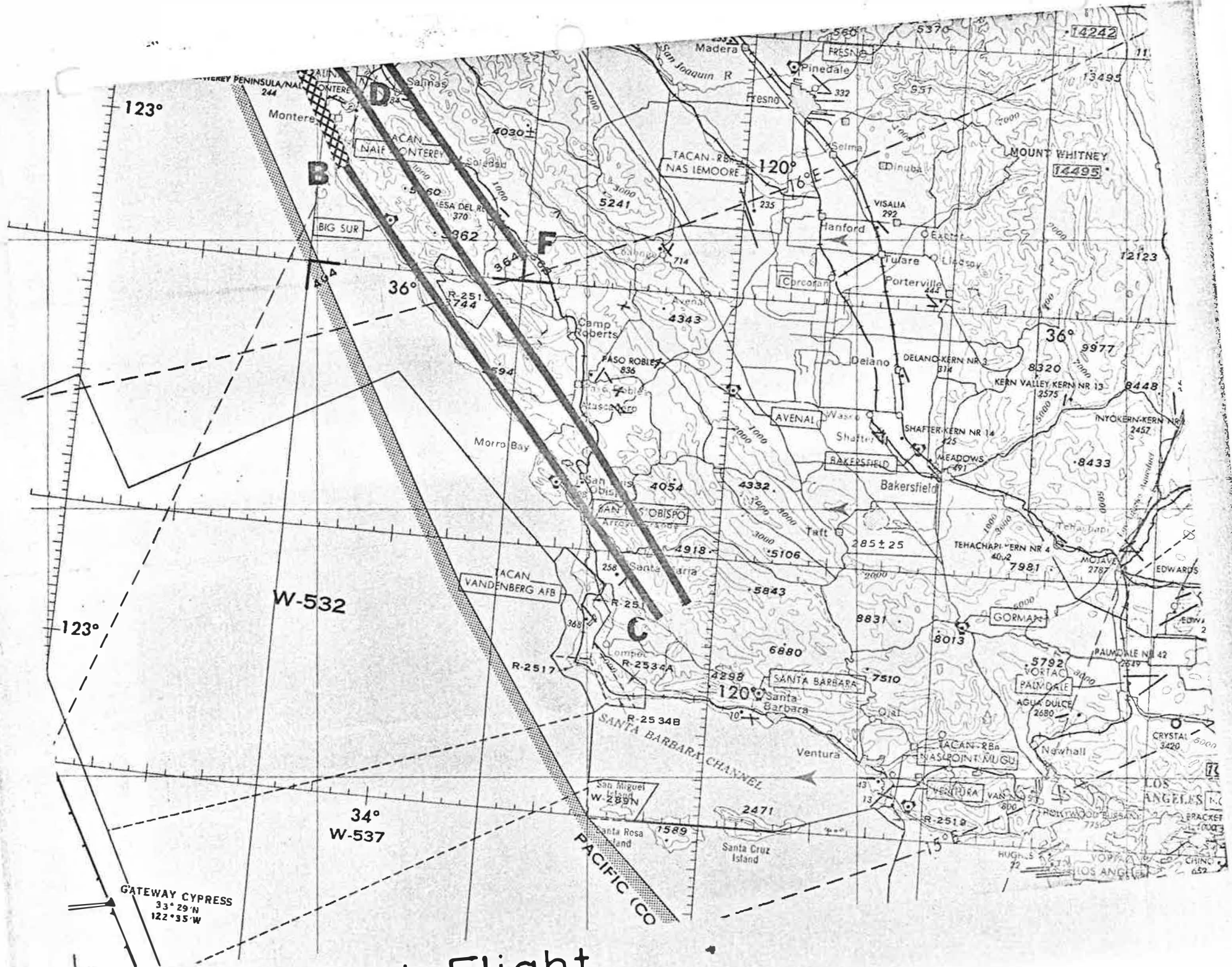
10 May 1972

Data run

RC-10

Vinten / RC 10





BC-10 Test Flight