

National Aeronautics and Space Administration

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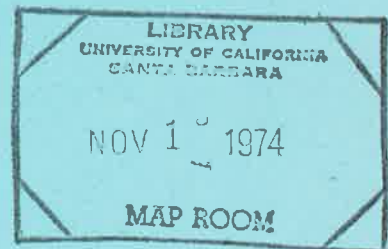
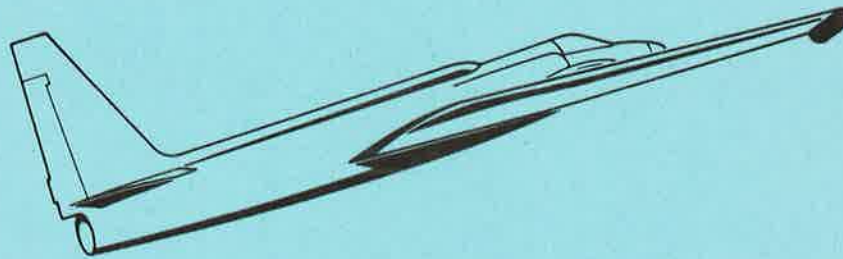
Earth Resources Aircraft Project

Flight Summary Report

Flight No. 74-072

Date 7 May 1974

FSR- 454



Airborne Science Office

Ames Research Center, Moffett Field, California

**NASA/ARC Earth Resources Aircraft Project**  
**FLIGHT SUMMARY REPORT**

FSR: 454

Flight No: 74-072

Date: 7 May 1974

Aircraft No: 4

Julian Date: 127

Sensor Package: RC-10

Purpose of Flight: R-NAV Flight Test

Area(s) Covered: Southern California

**SENSOR DATA**

Accession No: 01744  
Sensor ID No: 023  
Sensor Type: RC-10  
Lens Focal Length: 6"  
Film Type: Panatomic-X,  
3400  
Spectral Band: 510-700nm  
f Stop: 8  
Shutter Speed: 1/200  
No. of Frames: 22  
% Overlap: N/A  
Quality: Good  
Remarks: Single-pulse frames

## **FLIGHT SUMMARY**

74-072

This flight was a test of the R-NAV (Area Navigation) system which is being developed for the ERAP U-2 aircraft by Hoffman Electronics Corporation. This flight constituted both a pilot familiarization with the system operation and a preliminary check of system accuracy.

The RC-10 camera was flown and operated in a single-pulse mode along the programmed flight track at intervals selected by the pilot. Simultaneously with each camera pulse, the pilot recorded the aircraft position as computed by the R-NAV system. The film was subsequently plotted with the ERAP Data Entry System to compare the camera nadir position with the R-NAV data.

The quality of the imagery is good with no camera malfunctions noted.

## FLIGHT LINE DATA

FLIGHT NO. 74-072

RC-10

Check Points	Frame Numbers	Time (GMT - hr, min, sec)		Altitude, MSL (feet)	Cloud Cover/Remarks
		START	END		
a	7022	18:36:11	---	65,000	Clear
b	7023	18:37:37	---	"	"
c	7024	18:44:09	---	"	"
d	7025	18:45:24	---	"	"
e	7026	18:48:00	---	"	"
f	7027	18:51:00	---	"	"
g	7028	18:54:00	---	"	"
h	7029	18:59:00	---	"	"
i	7030	19:01:00	---	"	"
j	7031	19:06:00	---	"	"
k	7032	19:10:00	---	"	"
l	7033	19:29:00	---	"	"
m	7034	19:34:00	---	"	"
n	7035	19:36:00	---	"	"
o	7036	19:41:00	---	"	"
p	7037	19:44:00	---	"	"
q	7038	19:46:00	---	"	"
r	7039	19:51:00	---	"	30% cumulus
s	7040	19:57:00	---	"	"

## FLIGHT LINE DATA

FLIGHT NO. 74-072

RC-10

Check Points	Frame Numbers	Time (GMT - hr, min, sec)		Altitude, MSL (feet)	Cloud Cover/Remarks
		START	END		
t	7041	20:00:00	---	65,000	Clear
u	7042	20:07:00	---	"	"
v	7043	20:09:00	---	"	10% cumulus
			<i>22 frames</i>		

