

OVERSIZE

National Aeronautics and Space Administration

Earth Resources Aircraft Project

# Flight Summary Report

Flight No. 73-036

Date 14 March 1973

FSR- 245



EROS DATA CENTER  
LIBRARY

Airborne Science Office

Ames Research Center, Moffett Field, California

23 March 1973

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

Flight No: 73-036

Date: 14 March 1973

Aircraft No: 4

Julian Date: 073

Sensor Package: A-3 Configuration

Purpose of Flight: ERTS-1 Aircraft Support  
Proposal No. 124

Area(s) Covered: Los Angeles Basin, California

**SENSOR DATA**

Accession No:	00997	00998	00999
Sensor ID No:	018	019	020
Sensor Type:	HR-732F	HR-732C	HR-732R
Lens Focal Length:	24"	24"	24"
Film Type:	Aerochrome Infrared, 2443	Panatomic X, 3400	Aerial Color, S0-242
Spectral Band:	510-900nm	510-700nm	400-700nm
f Stop:	8	8	8
Shutter Speed:	1/250	1/250	1/250
No. of Frames:	373	433	433
% Overlap	60	60	60
Quality	Good	Good	Good
Remarks	Ends fr.0273- short film roll		Starts frame 0004 Sporadic traces of processing residue

## FLIGHT SUMMARY

73-036 ..

This is the first operational (other than camera test) flight of the A-3 Configuration and constitutes an ERTS-1 Aircraft Support flight for Proposal No. 124 (Raje). The flight covers the Los Angeles Basin and adjacent areas (see Track Map).

The A-3 Configuration consists of three HR-732 cameras (24-inch focal length) in a vertical array. Different film types were used in each camera - color infrared, high resolution black-and-white, and high resolution natural color. The entire Basin was mostly clear with only minor scattered to some broken cumulus cloud cover encountered over the area (see Flight Line Data).

Since film roll lengths of 2443 film are limited to only 600 feet, the HR-732F camera did not obtain coverage for the final few flight lines (see Track Map). The SO-242 camera (020) film does not start until frame 0004, the first 2 frames being lost to camera clearing ground operation.

Due to the vacuum system characteristics of these cameras, the first frame of each flight line will be "soft" in resolution.

The close spacing of flight lines necessitated an alternate flight line sequence as depicted on the Track Map.

All imagery from the flight is of good to excellent quality with no major malfunctions noted. A few frames of the 3400 film from camera 019 have minor static marks, and the SO-242 film has sporadic traces of processing residue, a standard problem with this type of film.

# FLIGHT LINE DATA

FLIGHT NO. 73-036

Check Points	Frame Numbers	Time (GMT - hr, min, sec)		Altitude, MSL (feet)	Cloud Cover/Remarks
		START	END		
A-B	0001-0034	19 09 14	19 17 07	65,000	10% sc. cumulus frs. 2-7
C-D	0035-0070	19 20 22	19 29 03	"	10-70% cumulus frs. 59-70
E-F	0071-0114	19 32 12	19 42 56	"	Clear
G-H	0115-0147	19 45 38	19 55 38	"	10% sc. cumulus frs. 129-139
I-J	0148-0185	19 57 52	20 06 05	"	" " " " 153-157; 20-50% cumulus frs. 158-162
K-L	0186-0224	20 12 28	20 21 58	"	10% sc. cumulus frs. 186-189, 212-216; 10-50% cumulus frs. 218-224
M-N	0225-0264	20 26 06	20 35 50	"	10-50% cumulus frs. 225-237; 10% sc. cumulus frs. 238-242
O-P	0265-0304	20 39 07	20 48 50	"	10% sc. cumulus frs. 280-293
Q-R	0305-0339	20 52 35	21 00 03	"	10% sc. cumulus frs. 319-330
S-T	0340-0374	21 07 50	21 16 14	"	
U-V	0375-0405	21 19 16	21 27 28	"	Sc. cumulus beginning of line
W-X	0406-0419	21 32 37	21 35 50	"	Clear
Y-Z	0420-0433	21 42 29	21 47 40	"	"
---	0434-0438	22 12 51	22 13 48	"	" - Atascadero
---	0439-0441	22 25 06	22 25 35	"	" - 3 frames, Salinas





WARNING  
W-1412

W-289 excludes the airspace  
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**FLIGHT 73-036**

**14 MARCH 73**

**ERTS A /C SUPPORT**

**DATA RUN**

**HR-732F,C,R : —————**

**HR-732C,R : - - - - -**

service outside U.S. airspace is  
in accordance with Article 12 and  
Convention. ICAD Convention  
state aircraft but compliance  
with standards and practices is encouraged.

0°

33°

CONTROL AREA 1177

COASTAL

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W-290

OUTER SANTA BARBARA PASSAGE

119°

SAN CLEMENTE ISLAND (NAVY)  
CT-126.2  
181° L 93  
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SAN CLEMENTE ISLAND  
Magnetic disturbance of  
as much as 5° exists at  
sea level in the vicinity  
of San Clemente Island.

Warning, National Defense Operating Area  
Operations hazardous to the flight of air-  
craft conducted within this area.

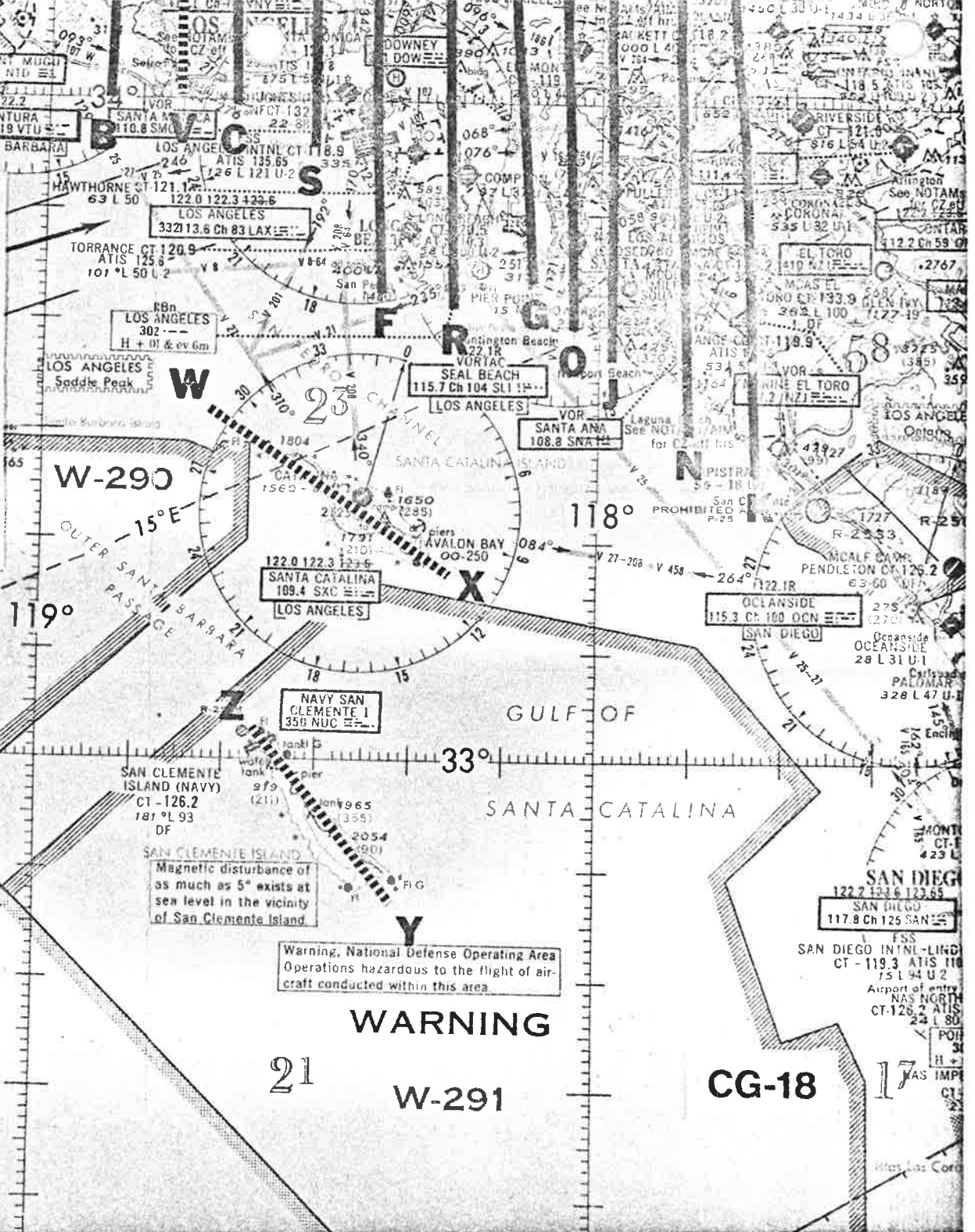
**WARNING**

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W-291

CG-18

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TORRANCE CT 120.9  
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Saddle Peak

SANTA CATALINA  
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LOS ANGELES

NAVY SAN CLEMENTE I  
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33°

SANTA CATALINA

GULF OF

SAN DIEGO  
122.2 123.6 123.65  
SAN DIEGO  
117.8 Ch 125 SAN

SAN DIEGO INTL-LINDI  
CT-119.3 ATIS 119  
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Airport of entry  
NAS NORTH  
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MAS IMPR  
CT-123