

National Aeronautics and Space Administration

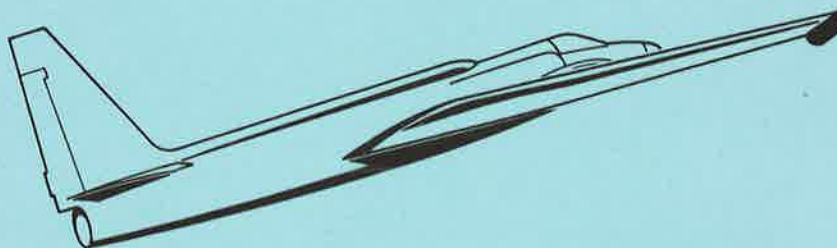
Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 77-007

Date 13 January 1977

FSR- 945



Data Management and Research Branch

Applications Division

Ames Research Center, Moffett Field, California

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FLIGHT SUMMARY REPORT

Flight No: 77-007

Date: 13 January 1977

FSR No: 945

Julian Date: 013

Sensor Package: A-3 Configuration

Aircraft No: 4

Purpose of Flight: #0599 Support
Requestor: Mikkelsen

Area(s) Covered: Southern California Coast

SENSOR DATA

Accession No:	02459	02460	02461
Sensor ID No:	018	019	020
Sensor Type:	HR-732F	HR-732C	HR-732R
Focal Length:	24" 609.6mm	24" 609.6mm	24" 609.6mm
Film Type:	High Definition Aerochrome Infrared, S0-127	Aerial Color, S0-242	Panatomic-X, 3400
Filtration:	CC .15B	NONE	Wratten 12
Spectral Band:	510-900nm	400-700nm	510-700nm
f Stop:	8	8	8
Shutter Speed:	1/75	1/75	1/75
No. of Frames:	228	228	239
% Overlap:	60	60	60
Quality:	Good	Excellent	Excellent
Remarks:	Soft focus on edge	Stepwedges printed over last 3 frs.	Shutter malfunction Random frs. lost

FLIGHT SUMMARY

77-007

This flight was flown in support of Flight Request #0599 (Mikkelsen, California Coastal Zone Conservation Commission) under the FY 1977 Airborne Instrumentation Research Program (AIRP) plan. Photographic coverage was obtained along the southern California coastline (see Track Map).

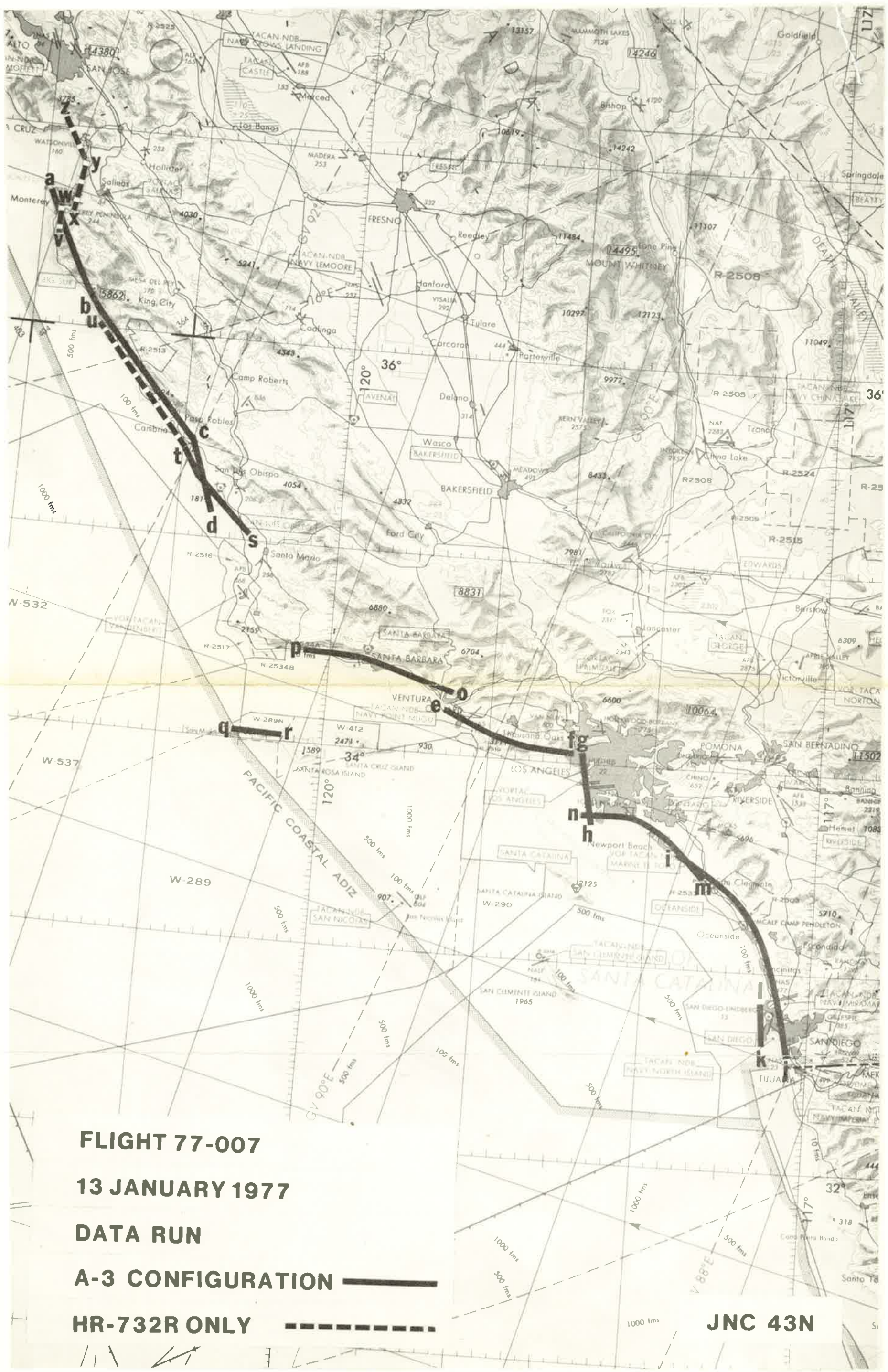
The coastal area was generally clear except for some moderate cumulus clouds south of Monterey. An intermittent shutter malfunction on the HR-732R camera resulted in a loss of data over several areas as noted in the Flight Line Data. Three sensitometric stepwedges were printed over the last three frames of the S0-242 color imagery. The S0-127 imagery is rated good quality due to a soft focus around the frame edge. All other imagery is excellent quality with no other camera or processing malfunctions noted.

FLIGHT LINE DATA

FLIGHT NO. 77-007

	Check Points	Frame Numbers	Time (GMT—hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks **
			START	END		
A-3	a-b	0001-0023	18:48:58	18:54:29	65,000/19800	10-40% cumulus, frs. 0001-0004; 0-20% cumulus, frs. 0011-0023
	b-c	0024-0054	18:54:44	19:02:15	"	0-20% cumulus, frs. 0024-0037
	c-d	0055-0066	19:02:30	19:05:04	"	Clear; frs. 0058-0062 and 0066 removed
	e-f	0067-0091	19:19:28	19:25:06	"	0-10% cumulus, frs. 0080-0082; frs. 0067 and 0079-0090 removed
	g-h	0092-0102	19:30:38	19:33:07	"	0-10% cumulus, frs. 0100-0102; frs. 0092-0096 removed
	i-j	0103-0141	19:38:25	19:47:55	"	Clear; frs. 0103-0105 removed
	k-l	0142-0147	19:57:50	19:59:05	"	Clear
	m-n	0148-0173	20:06:25	20:12:39	"	0-10% cumulus, frs. 0170-0173
	o-p	0174-0201	20:21:43	20:28:29	"	Clear
	q-r	0202-0208	20:36:33	20:38:00	"	Clear
s-t	0209-0228	20:49:35	20:54:20	"	Clear; frs. 0209-0212, 0216-0218 and 0225-0226 removed	
HR-732R only	t-u	0229-0257	20:54:35	21:01:36	"	0-20% cumulus, frs. 0248-0257; frs. 0236-0237 removed
	v-w	0258-0260	21:06:46	21:07:15	"	Clear; frs. 0261-0262 removed
	x-y	0263-0270	21:14:15	21:15:58	"	Clear
	y-z	0271-0279	21:16:14	21:18:15	"	Clear

** Frames removed refers to HR-732R only



FLIGHT 77-007

13 JANUARY 1977

DATA RUN

A-3 CONFIGURATION 

HR-732R ONLY 

JNC 43N