

Airborne Instrumentation Research Project

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Flight Summary Report

Flight No. 78-017

Date 14 February 1978

FSR- 1103



NASA

National Aeronautics and
Space Administration

Ames Research Center
Moffett Field, California 94035

Airborne Missions and Applications Division

FLIGHT SUMMARY REPORT

Flight No: 78-017

Date: 14 February 1978

FSR No: 1103

Julian Date: 045

Sensor Package: Dual RC-10

Aircraft No: 5

Purpose of Flight: Flood Assessment
Requestor: Office of Emergency Services
State of California

Area(s) Covered: Southern California

SENSOR DATA

Accession No:	02581	02582
Sensor ID No:	035	036
Sensor Type:	RC-10	RC-10
Focal Length:	6" 153.46mm	6" 153.19mm
Film Type:	High Definition Aerochrome Infrared, S0-127	Panatomic-X, <i>B+W</i> 3400
Filtration:	CC .30M + .20B + 2.2AV	Wratten 12 + 2.2AV
Spectral Band:	510-900nm	510-700nm
f Stop:	4	4
Shutter Speed:	1/75	1/125
No. of Frames:	81	82
% Overlap:	60	60
Quality:	Excellent	Fair
Remarks:	---	Filter pack not fully seated in drawer

FLIGHT SUMMARY

78-017

This flight was flown in support of the Office of Emergency Services, State of California, at the request of the Ventura County Flood Control District. Photographic data was acquired over the southern California coast between Los Angeles and Santa Barbara for flood assessment purposes (see Track Map).

Minor to moderate cumulus clouds were encountered over the mountainous areas around Los Angeles and Santa Barbara. Flight line A-B was shifted south to avoid heavy cumulus clouds. The 3400 film is rated only fair quality due to a shift of the filter pack within the filter drawer resulting in a density shift across the frame format. The S0-127 color infrared film is rated excellent quality. No other camera or processing malfunctions were noted.

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67

FLIGHT LINE DATA

FLIGHT NO. 78-017

RC-10
#035

Check Points	Frame Numbers	Time (GMT— hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks	
		START	END			
RC-10 #035	A-B	5108-5122	20:39:50	20:51:57	65,000/19800	Heavy cumulus, frs. 5108-5109; minor cumulus, frs. 5110-5115, 5118-5122
	C-A	5123-5138	20:54:52	21:08:07	"	Minor cumulus, frs. 5123-5129, 5133-5135; heavy cumulus, frs. 5136-5138
	D-E	5139-5162	21:17:31	21:37:59	"	Minor cumulus, frs. 5139-5150, 5159-5162
	F-G	5163-5188	21:40:57	22:01:37	"	Moderate to minor cumulus, frs. 5163-5166
RC-10 #036	A-B	4020-4034	20:39:50	20:51:57	65,000/19800	Heavy cumulus, frs. 4020-4021; minor cumulus, frs. 4022-4024, 4030-4034
	B-C	4035-4050	20:54:52	21:08:08	"	Minor cumulus, frs. 4035-4041, 4045-4047; heavy cumulus, frs. 4048-4050
	D-E	4051-4074	21:17:31	21:37:59	"	Minor cumulus, frs. 4051-4062, 4071-4074
	F-G	4075-4101	21:40:57	22:01:38	"	Moderate to minor cumulus, frs. 4075-4079

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FLIGHT 78-017
14 FEBRUARY 1978
DATA RUN
DUAL RC-10 

