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Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 78-064

Date 30 May 1978

FSR-1132



NASA

National Aeronautics and
Space Administration

Ames Research Center
Moffett Field, California 94035

Airborne Missions and Applications Division

FLIGHT SUMMARY REPORT

Flight No: 78-064

Date: 30 May 1978

FSR No: 1132

Julian Date: 150

Sensor Package: A-3 Configuration
Aerosol Particulate Sampler (APS)

Aircraft No: 4

Purpose of Flight: #0686 Support
Requestor: Bowman
#0047 Support
Requestor: Ferry

Area(s) Covered: Mendocino / Lake Counties, California

SENSOR DATA

Accession No:	02605	02606	02607	---
Sensor ID No:	018	019	020	024
Sensor Type:	HR-732F	HR-732C	HR-732R	APS
Focal Length:	24" 609.6mm	24" 609.6mm	24" 609.6mm	---
Film Type:	High Definition Aerochrome IR, SO-127	Aerial Color, SO-242	Panatomic-X, 3400	---
Filtration:	CC .20B	HF 3	WRATTEN 12	---
Spectral Band:	510-900nm	400-700nm	510-700nm	---
f Stop:	10	10	11	---
Shutter Speed:	1/75	1/75	1/75	---
No. of Frames:	374	389	389	---
% Overlap:	60	60	60	---
Quality:	Excellent	Excellent	Excellent	---
Remarks:	Short film roll	---	---	Non-imaging sensor

FLIGHT SUMMARY

78-064

This flight was flown in support of Flight Requests #0686 (Bowman, Soil Conservation Service) and #0047 (Ferry, NASA/ARC) under the FY 1978 Airborne Instrumentation Research Program (AIRP) plan. Photographic coverage was obtained over Mendocino and Lake Counties in northwestern California (see Track Map). Additionally, Aerosol Particulate Sampler (APS) data was collected during descent over the coastal areas near Point Reyes. Due to the localized nature of this data collection, APS data is not indicated on the track map.

The weather was clear over the entire area. Due to the maximum film load limitation of the camera and the extensive area to be covered, the HR-732F (Sensor ID No. 018) was turned off during selected portions of the area. Therefore, no color infrared photography was acquired from checkpoints "C" to "1" and "2" to "F". The camera ran out of film beyond checkpoint "3" resulting in a loss of color infrared photography beyond that point. All photography acquired is of excellent quality with no camera or processing malfunctions noted.

FLIGHT LINE DATA

FLIGHT NO. 78-064

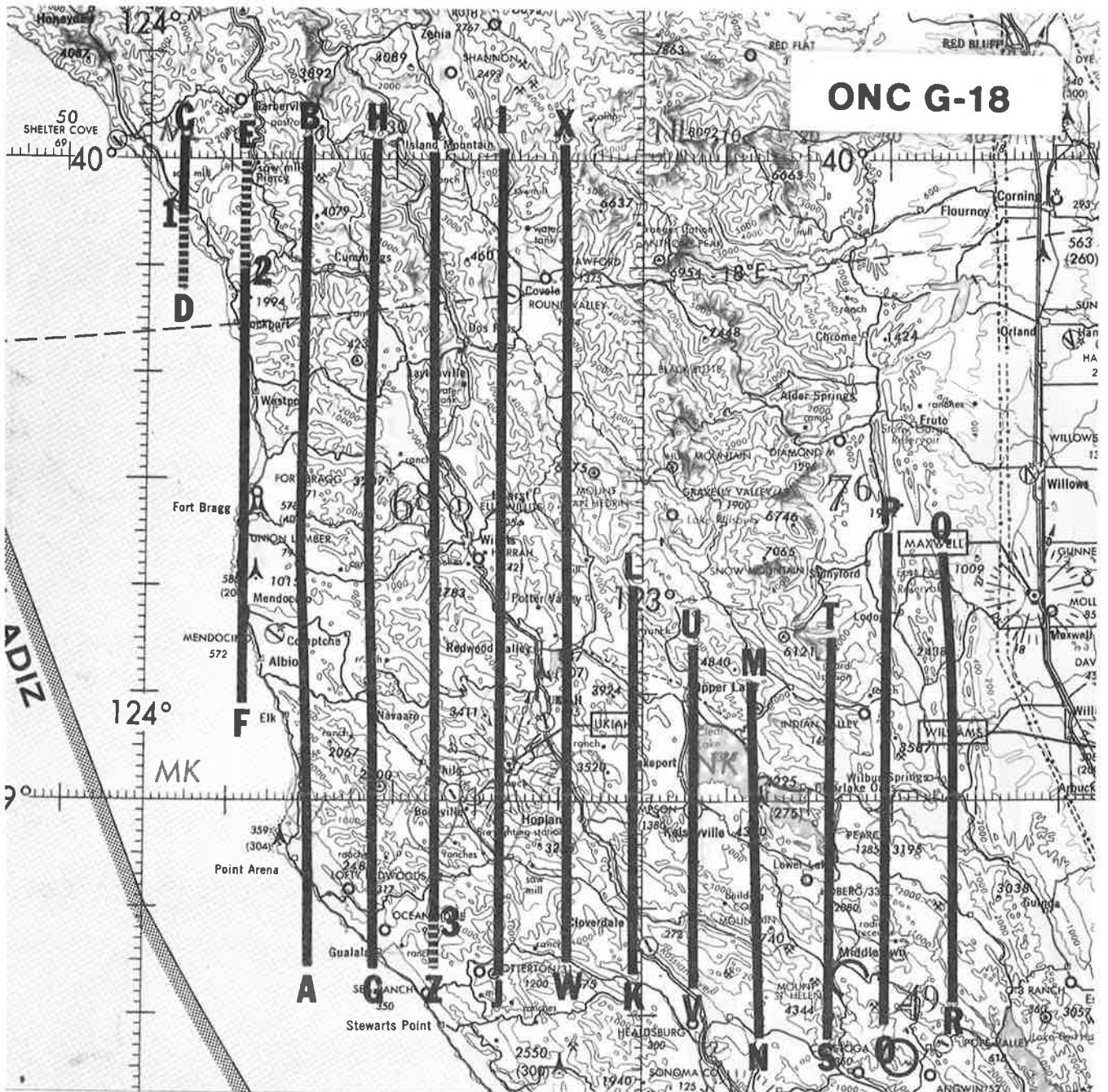
Check Points	Frame Numbers	Time (GMT— hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks	
		START	END			
HR-732F #018	A-B	0000-0045	18:27:08	18:38:23	65,000/19800	Clear
	C-1	0046-0048	18:43:15	18:43:45	"	Clear; camera turned off early
	2-F	0049-0071	18:57:54	19:03:25	"	Clear; camera turned on late
	G-H	0072-0116	19:12:41	19:23:44	"	"
	I-J	0117-0161	19:28:35	19:39:32	"	"
	K-L	0162-0181	19:45:03	19:49:49	"	"
	M-N	0182-0200	19:54:18	19:58:47	"	"
	O-P	0201-0226	20:03:30	20:09:45	"	"
	Q-R	0227-0250	20:17:44	20:23:31	"	"
	S-T	0251-0270	20:29:02	20:33:48	"	"
	U-V	0271-0287	20:38:39	20:42:40	"	"
	W-X	0288-0331	20:47:29	20:58:17	"	"
	Y-3	0332-0373	21:03:17	21:13:33	"	Clear; camera ran out of film

FLIGHT LINE DATA**FLIGHT NO. 78-064**

Check Points	Frame Numbers	Time (GMT— hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks	
		START	END			
HR-732C #019	A-B	0000-0045	18:27:08	18:38:23	65,000/19800	Clear
	C-D	0046-0053	18:43:15	18:45:01	"	"
	E-F	0054-0084	18:55:53	19:03:25	"	"
	G-H	0085-0129	19:12:41	19:23:44	"	"
	I-J	0130-0174	19:28:35	19:39:32	"	"
	K-L	0175-0194	19:45:03	19:49:49	"	"
	M-N	0195-0213	19:54:18	19:58:47	"	"
	O-P	0214-0239	20:03:30	20:09:45	"	"
	Q-R	0240-0263	20:17:44	20:23:31	"	"
	S-T	0264-0283	20:29:02	20:33:48	"	"
	U-V	0284-0300	20:38:39	20:42:40	"	"
	W-X	0301-0344	20:47:29	20:58:17	"	"
	Y-Z	0345-0388	21:03:17	21:14:03	"	"

FLIGHT LINE DATA
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Check Points	Frame Numbers	Time (GMT – hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks	
		START	END			
HR-732R #020	A-B	0001-0046	18:27:08	18:38:23	65,000/19800	Clear
	C-D	0047-0054	18:43:15	18:45:01	"	"
	E-F	0055-0085	18:55:53	19:03:25	"	"
	G-H	0086-0130	19:12:41	19:23:44	"	"
	I-J	0131-0175	19:28:35	19:39:32	"	"
	K-L	0176-0195	19:45:03	19:49:49	"	"
	M-N	0196-0214	19:54:18	19:58:47	"	"
	O-P	0215-0240	20:03:30	20:09:45	"	"
	Q-R	0241-0264	20:17:44	20:23:31	"	"
	S-T	0265-0284	20:29:02	20:33:48	"	"
	U-V	0285-0301	20:38:39	20:42:40	"	"
	W-X	0302-0345	20:47:29	20:58:17	"	"
	Y-Z	0346-0389	21:03:17	21:14:03	"	"
APS	---	-----	21:17:00	21:19:00	60,000/18300	APS #1 exposed and sealed
	---	-----	21:21:00	21:24:00	50,000/15200	APS #2 exposed and sealed
	---	-----	21:26:00	21:29:00	40,000/12200	APS #3 exposed and sealed



ONC G-18

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DATA RUN

A-3 CONFIGURATION

HR-732F,HR-732C,HR-732R —————

HR-732C,HR-732R

