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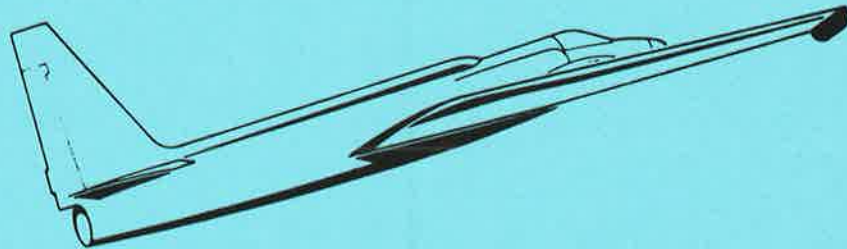
Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 80-148

Date 9 September 1980

FSR- 1459



NASA

National Aeronautics and
Space Administration

Ames Research Center
Moffett Field, California 94035

Airborne Missions and Applications Division

FLIGHT SUMMARY REPORT

Flight No: 80-148

Date: 9 September 1980

FSR No: 1459

Julian Date: 253

Sensor Package: IRIS II Panoramic Camera System
Aerosol Particulate Sampler (APS)

Aircraft No: 5

Purpose of Flight: #0890 Support
Requestor: Weber
#0047 Support
Requestor: Ferry

Area(s) Covered: California

SENSOR DATA

Accession No:	02945	---
Sensor ID No:	066	024
Sensor Type:	IRIS II	APS
Focal Length:	24" 609.6mm	---
Film Type:	High Definition Aerochrome Infrared, SO-131	---
Filtration:	CC .20B	---
Spectral Band:	510-900nm	---
f Stop:	3.5	---
Shutter Speed:	1/250	---
No. of Frames:	514	---
% Overlap:	60	---
Quality:	Excellent	---
Remarks:	---	Non-imaging sensor

FLIGHT SUMMARY

80-148

This flight was flown in support of Flight Requests #0890 (Weber, USFS) and #0047 (Ferry, NASA/ARC) under the FY 1980 Airborne Instrumentation Research Program (AIRP) plan. The IRIS II Panoramic Camera System was utilized to acquire data over California (see Track Map). Aerosol Particulate Sampler (APS) data was also collected during the flight but is not indicated on the track map.

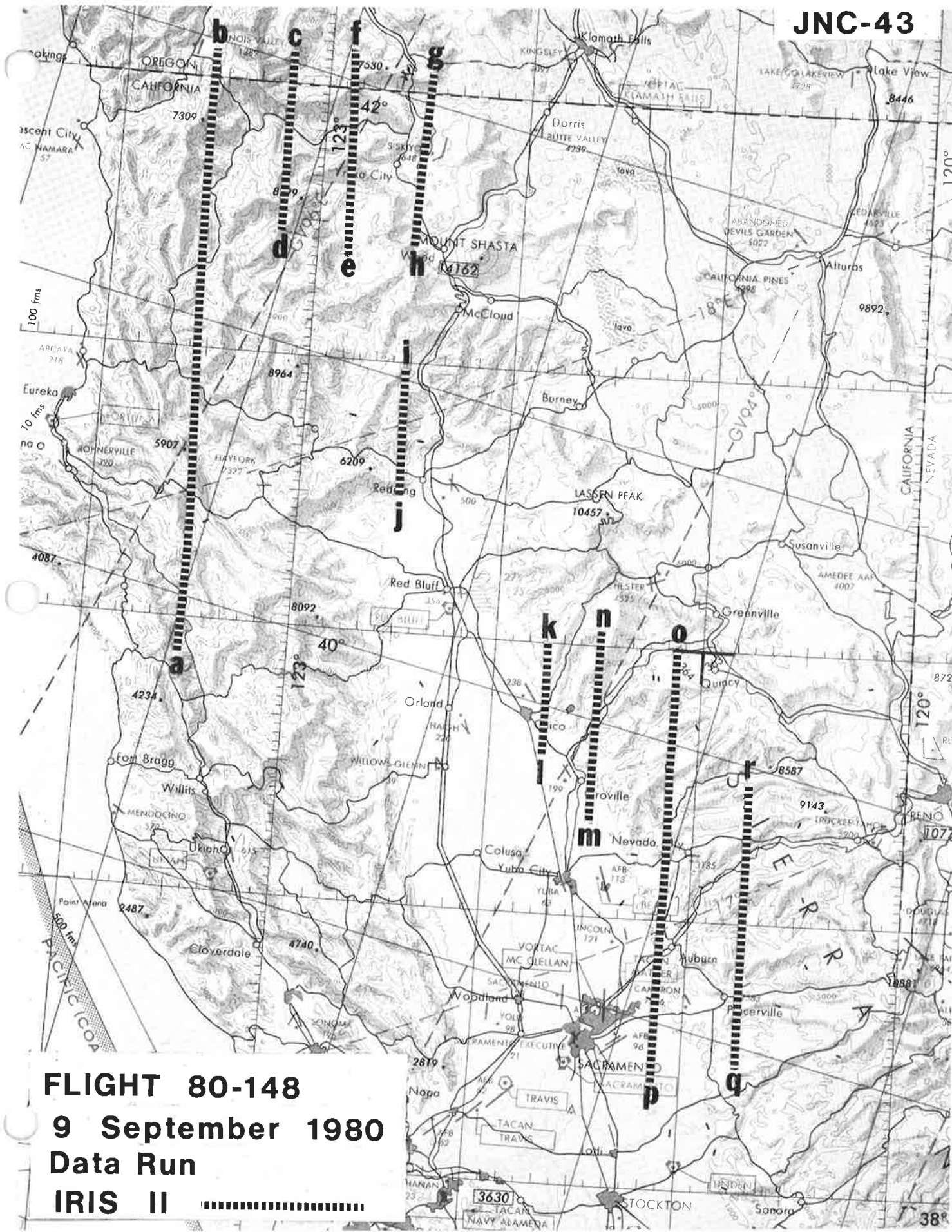
The area flown had very minor cloud-cover. No camera or processing malfunctions were noted and the quality of the data is rated excellent.

The APS has been developed and is operated by Dr. Guy Ferry of the NASA-Ames Research Center Atmospheric Experiments Branch. The sampler is a non-imaging sensor designed to gather high altitude dust particles for laboratory research.

FLIGHT LINE DATA

FLIGHT NO. 80-148

	Check Points	Frame Numbers	Time (GMT—hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks
			START	END		
IRIS II	a-b	0001-0135	18:26:50	18:46:14	65,000/19800	10-20% cumulus and coastal fog, frs. 0001-0135
	c-d	0136-0174	18:52:11	18:57:36	"	0-10% cumulus, frs. 0136-0174
	e-f	0175-0219	19:02:58	19:09:14	"	10% cumulus, frs. 0175-0185, 0208-0219
	g-h	0220-0261	19:14:53	19:21:43	"	0-10% cumulus, frs. 0220-0238, 0253-0261
	i-j	0262-0292	19:24:50	19:29:06	"	0-10% cumulus, frs. 0262-0292
	k-l	0293-0317	19:37:35	19:41:59	"	Clear
	m-n	0318-0356	19:48:38	19:54:03	"	0-10% cirrus, frs. 0325-0356
	o-p	0357-0452	19:58:17	20:11:48	"	10-20% cumulus, frs. 0357-0399; factory splice, fr. 0428
	q-r	0453-0514	20:16:03	20:24:44	"	10-20% cumulus, frs. 0490-0514
APS	---	-----	18:17:00	20:27:00	65,000/19800	APS #1 and #2 exposed for 2 hours, 10 minutes



FLIGHT 80-148
9 September 1980
Data Run
IRIS II

3630