National Aeronautics and Space Administration

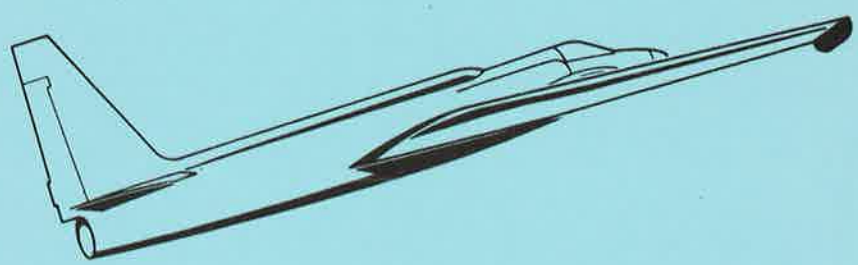
Earth Resources Aircraft Project

Flight Summary Report

Flight No. 73-205

Date 10 December 1973

FSR- 388



Airborne Science Office

Ames Research Center, Moffett Field, California

NASA/ARC Earth Resources Aircraft Project

FLIGHT SUMMARY REPORT

Flight No: 73-205

Date: 10 December 1973

Aircraft No: 4

Julian Date: 344

Sensor Package: Vinten System B/RC-10
Aerosol Particulate Sampler (APS)

Purpose of Flight: 74-SR-0101 Support
Requestor: Professor Leonard Bowden
University of California, Riverside

Area(s) Covered: Eastern Los Angeles Basin, California

SENSOR DATA

Accession No:	01547	01548	01549	01561	01562
Sensor ID No:	011	012	013	014	023
Sensor Type:	Vinten	Vinten	Vinten	Vinten	RC-10
Lens Focal Length:	1-3/4"	1-3/4"	1-3/4"	1-3/4"	6"
Film Type:	Plus-X, 2402	Plus-X, 2402	Infrared Aerographic, 2424	Aerochrome Infrared, 2443	Aerochrome Infrared, 2443
Spectral Band:	475-575nm	580-680nm	690-760nm	510-900nm	510-900nm
f Stop:	13.5	13.5	9.6	6.3	5.6
Shutter Speed:	1/250	1/250	1/250	1/250	1/250
No. of Frames:	81	81	81	81	70
% Overlap	60	60	60	60	60
Quality	Excellent	Excellent	Excellent	Excellent	Excellent
Remarks	Aerosol Particulate Sampler (APS) - Sensor ID No. 024 also flown (non-imaging sensor)				
	Vinten data annotation erroneously set for 1963 date				

FLIGHT SUMMARY

73-205

This flight is in support of Flight Request 74-SR-0101 (Bowden) under the CY 1974 Earth Observations Aircraft Program (EOAP) plan. The flight covers the eastern Los Angeles Basin and surrounding mountain ranges (see Track Map).

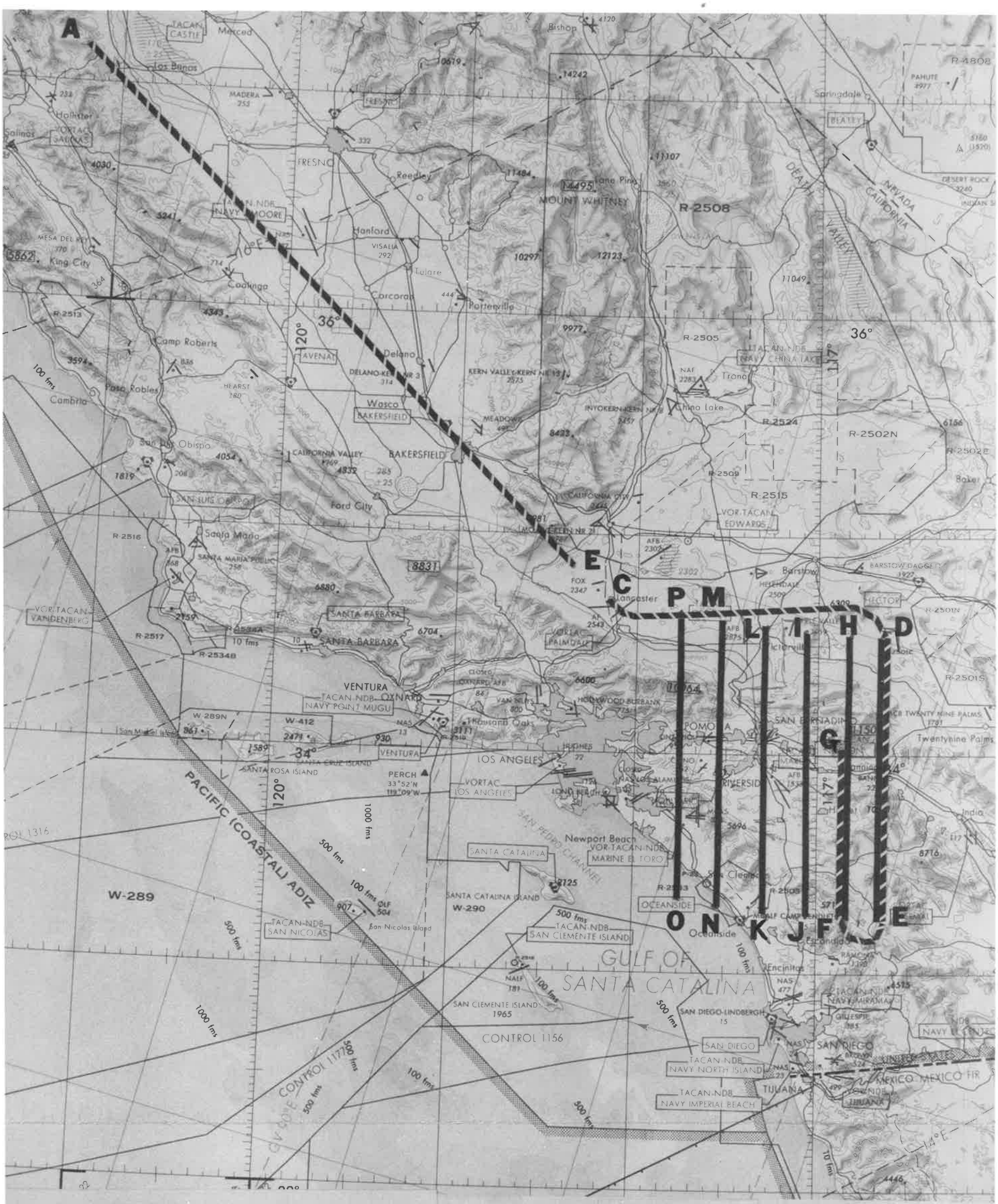
Weather conditions were clear for the flight and the imagery is cloud-free. All imagery is of excellent quality with no malfunctions noted. Both color infrared films have good color balance and saturation.

The Aerosol Particulate Sampler (APS) was also flown on this flight in support of the Planetary Science Applications Branch of NASA-Ames Research Center under the auspices of Dr. Guy Ferry. The sampler is a non-imaging sensor designed to gather high altitude dust particles for laboratory research. The Track Map and Flight Line Data indicate those segments of the flight during which the sampler was activated.

FLIGHT LINE DATA

FLIGHT NO. 73-205

	Check Points	Frame Numbers	Time (GMT – hr, min, sec)		Altitude, MSL (feet)	Cloud Cover/Remarks
			START	END		
VINTENS	D-E	0001-0013	20:00:51	20:10:27	65,000	Clear
	F-H	0014-0027	20:13:34	20:23:52	"	"
	I-J	0028-0040	20:26:52	20:36:24	"	"
	K-L	0041-0054	20:39:14	20:49:26	"	"
	M-N	0055-0067	20:52:13	21:01:49	"	"
	O-P	0068-0081	21:04:46	21:14:55	"	"
RC-10 and APS	A-B	---------	19:16:--	19:46:--	65,000	APS #1 opened and closed
	C	---------	19:49:--	--------	"	APS #2 opened
	D-E	5105-5116	20:00:19	20:10:08	"	Clear
	F-H	5117-5128	20:13:06	20:23:25	"	"
	G	---------	--------	20:19:--	"	APS #2 closed
	I-J	5129-5139	20:26:25	20:35:56	"	Clear
	K-L	5140-5151	20:38:46	20:48:58	"	"
	M-N	5152-5162	20:51:45	21:01:21	"	"
	O-P	5163-5174	21:04:18	21:14:27	"	"



FLIGHT 73-205

10 December 1973

74-SR-0101 Support Flight

Data Run

Vinten /RC-10 ——————

APS - - - - - - - -

JNC 43N