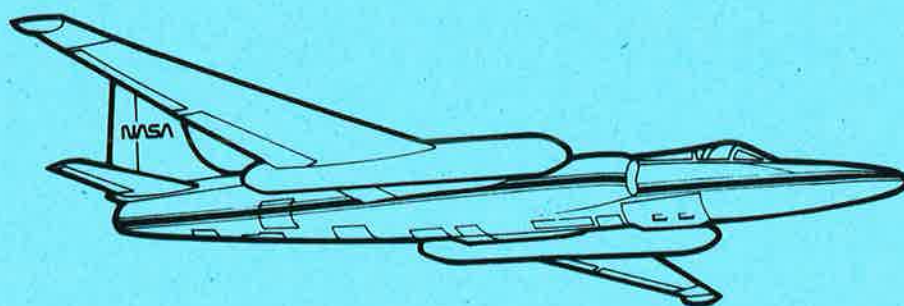


Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 88-018

Date 19 November 1987



Science and Applications Aircraft Division

NASA

National Aeronautics and
Space Administration

Ames Research Center
Moffett Field, California 94035

G
70.4
F58

FLIGHT SUMMARY REPORT

Flight Number: 88-018

Date: 19 November 1987

Julian Date: 323

Sensor Package: RC-10 Camera; Aerosol
 Particulate Sampler (APS);
 Cosmic Particulate Sampler (CPS)

Aircraft No: 709

Purpose of Flight: #88X047 Support
 Requestor: Ferry
 #88P220 Support
 Requestor: Zolensky

Area(s) Covered: Ferry of aircraft from Ellington AFB,
 Texas to Moffett Field, CA

SENSOR DATA

Accession No:	03695	---	---
Sensor ID No:	076	081	024
Sensor Type:	RC-10	CPS #2	CPS #3
Focal Length:	12" 304.89mm	---	---
Film Type:	High Definition Aerochrome Infrared, SO-131	---	---
Filtration:	cc .10C	---	---
Spectral Band:	510-900nm	---	---
f Stop:	4	---	---
Shutter Speed:	1/200	---	---
No. of Frames:	22	---	---
% Overlap:	60	---	---
Quality:	Excellent	---	---
Remarks:	---	---	---

FLIGHT SUMMARY

88-018

This flight was flown in support of Flight Requests #88X047 (Ferry, NASA/ARC) and #88P220 (Zolensky, NASA/JSC) under the FY 1988 Airborne Instrumentation Research Program (AIRP) plan. Aerosol particulate and cosmic particulate sampling was conducted throughout the flight above 60,000 feet. Additionally, photography was acquired at the discretion of the pilot enroute to Moffett Field, California (No track provided).

No camera or processing malfunctions were noted and the quality of the data is rated excellent.

Aerosol Particulate Sampler

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 to gather high altitude dust particles for laboratory research.

Cosmic Particulate Sampler

The Cosmic Particulate Sampler (CPS) is an impact sampler utilizing an oil coated impact collection plate exposed to the atmosphere for long durations. The sampler is designed to collect extraterrestrial particles in the upper atmosphere from comets, asteroid collisions, planetary impacts, etc.

CAMERA FLIGHT LINE DATA
FLIGHT NO. 88-018

Sensor #	Check Points	Frame Numbers	Time (GMT-hr, min, sec)		Altitude, MSL feet/meters	Cloud Cover/Remarks
			START	END		
076	---	3581-3583	17:23:50	17:24:06	65000/91800	moderate strato-cumulus frames 3581-3583; coverage over central Texas, N30 27'
	---	3584-3586	17:30:29	17:30:47	"	clear; Austin, TX
	---	3587-3590	18:39:50	18:40:30	"	clear; El Paso, TX
	---	3591-3595	19:25:24	19:27:17	"	clear; Phoenix, AZ
	---	3596	19:28:51		"	clear; Luke AFB, AZ
	---	3597-3598	19:57:32	19:57:36	"	clear; Twenty-nine Palms, CA
	---	3599-3601	20:13:26	20:14:13	"	clear; Lancaster, CA
	---	3602	20:49:46		20000/6100	clear; Watsonville Airport, CA