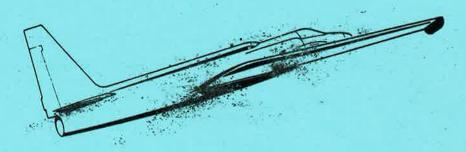
Airborne Instrumentation Research Project

Flight Summary Report

Flight No. 84-130

Date 14 July 1984

FSR- 1942



NASA

National Aeronautics and Space Administration

Ames Research Center Moffett Field, California 94035

38. Carl 36.

Airborne Missions and Applications Division

FLIGHT SUMMARY REPORT

Flight No: 84-130

Date: 14 July 1984

196

FSR No:

1942

Julian Date:

Sensor Package:

Itek Iris II Panoramic Camera

Aircraft No: 706

Aerosol Particulate Sampler (APS)

Purpose of Flight: #0903 Support

Requestor: Weber #0983 Support Requestor: Clanton

Area(s) Covered:

Pennsylvania

SENSOR DATA

Accession No:

03366

Sensor ID No:

070

024

Sensor Type:

Iris II (90°)

APS

Focal Length:

24"

609.6mm

Film, Type:

High Definition

Aerochrome Infrared

SO-131

Filtration:

CC.30B

Spectral Band:

510-900nm

f Stop;

3.5

Shutter Speed:

1/125

No. of Frames:

. .

% Overlap:

60

Quality:

Good

Remarks:

Non-imaging Sensor

FLIGHT SUMMARY

84-130

This flight was flown in support of Flight Requests #0903 (Weber, USFS) and #0983 (Clanton, NASA/JSC) under the FY 1984 Airborne Instrumentation Research Program (AIRP) plan. Itek Iris II Panoramic photography was acquired over portions of Pennsylvania in support of a gypsy moth defoliation detection program. Additionally, aerosol particulate sampling was conducted throughout the flight above 60,000 feet.

Iris photography coverage was acquired over the following flightlines:

Longitude	Latitude		Latitude
076°40'W 077°03'W 077°25'W 077°49'W 078°10'W 078°32'W	39°20'N 38°15'N 39°20'N 38°00'N 41°00'N 38°00'N	to to to to to	38°15'N 39°20'N 38°00'N 41°00'N 38°00'N 39°50'N

Film processing was accomplished at EPA-EPIC facilities in Warrenton, Virginia in order to expedite delivery to Forest Service personnel.

Aerosol Particulate sampling was acquired for 3 hours and 10 minutes from 1357z to 1707z above 60,000 feet.

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 designed to gather high altitude dust particles for laboratory research.