

# FLIGHT SUMMARY REPORT

Flight No: 79-062

Date: 29 May 1979

FSR No: 1270

Julian Date: 149

Sensor Package: Modified Airborne Particle Sampler (MAPS)

Aircraft No: 4

Purpose of Flight: #0047 Support  
Requestor: Ferry

Area(s) Flown: San Francisco Bay Area

NOTE: No documentation of photography produced by NASA-Ames. Sensor data below derived from film review and "best guess" by MIL. See MIL generated track map attached. Altitude assumed to be 65,000ft. since film measures to 1:32,500. 4/95 RB

## SENSOR DATA

Sensor ID No: 062

Sensor ID No: 029

Sensor Type: MAPS

Sensor Type: Itek Optical Bar

Focal Length: 24"  
609.6mm

Data Format: Impact sampler

Film Type: High Definition  
Aerochrome Infrared,  
SO-131

Filtration: CC .40C

Sensor Position: Wing pylon

Spectral Band: 510-900nm

Remarks: Non-imaging sensor

f Stop: 3.5

Shutter Speed: 1/350

No. of Frames: 57

% Overlap: 60

Quality: Excellent

Remarks: ---

## FLIGHT SUMMARY

79-062

This flight was flown in support of Flight Request #0047 (Ferry, NASA/ARC) under the FY 1979 Airborne Instrumentation Research Program (AIRP) plan. Modified Airborne Particle Sampler (MAPS) data was collected over the San Francisco Bay Area during a routine checkflight of the aircraft. Due to the localized nature of the flight, no track map is provided.

The Modified Airborne Particle Sampler (MAPS) is an updated version of the Aerosol Particulate Sampler. The sampler attempts to coat each particle gathered during flight with a thin film of gold in situ at an oblique angle. This causes a shadow area devoid of gold on one side which characterizes the particle shape and allows changes in particle shape to be more easily detected during scanning electron microscopy.

