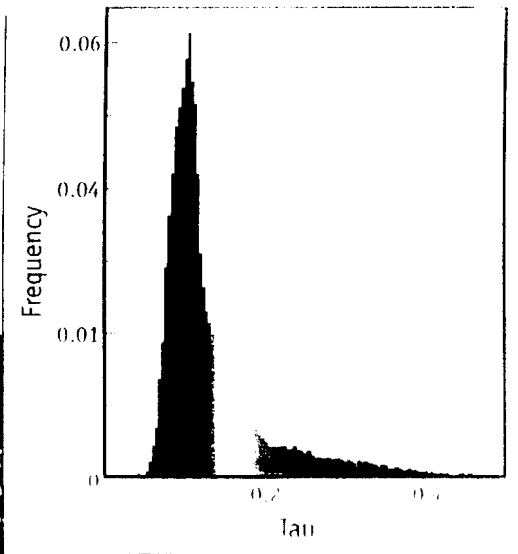
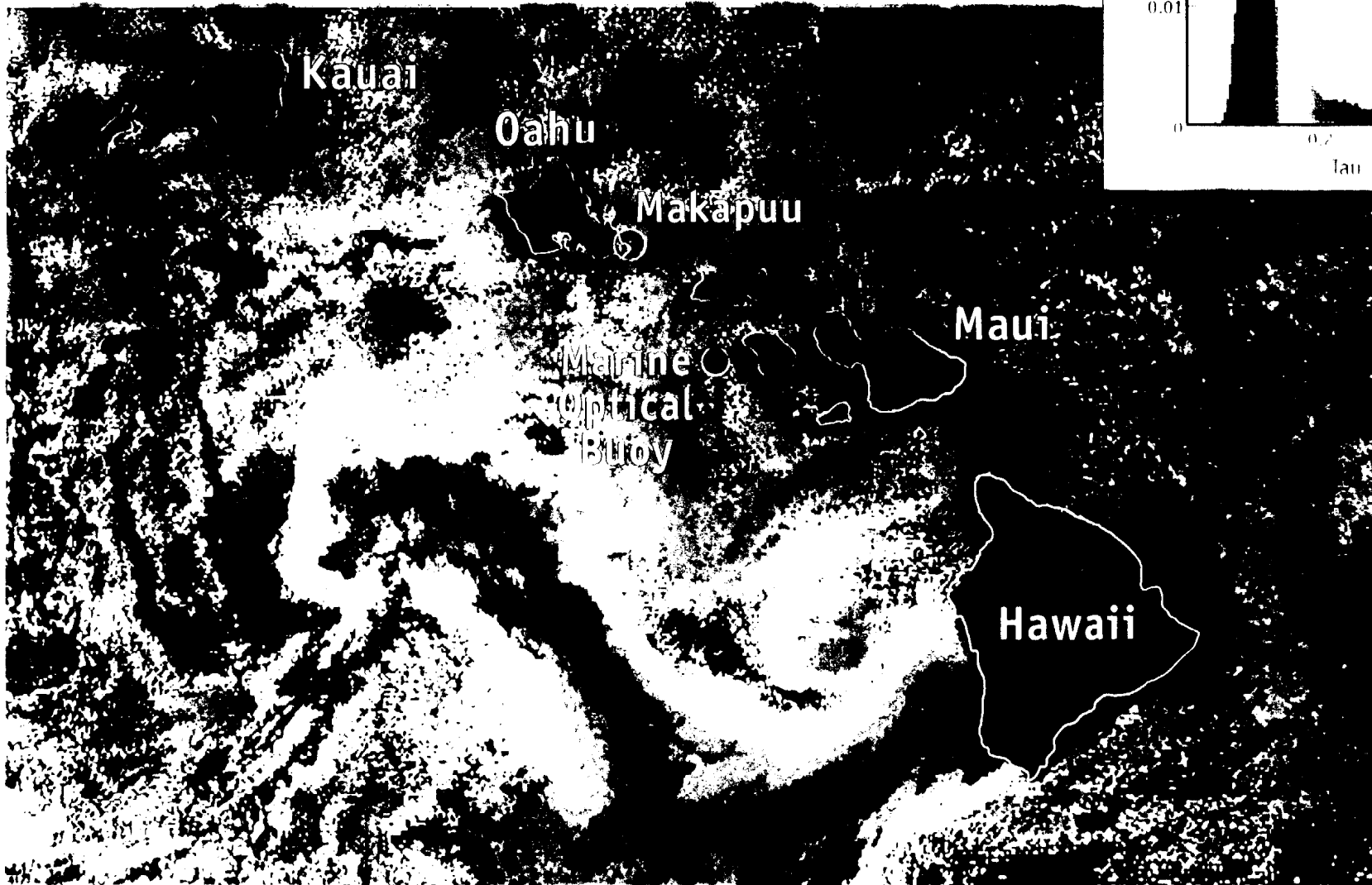


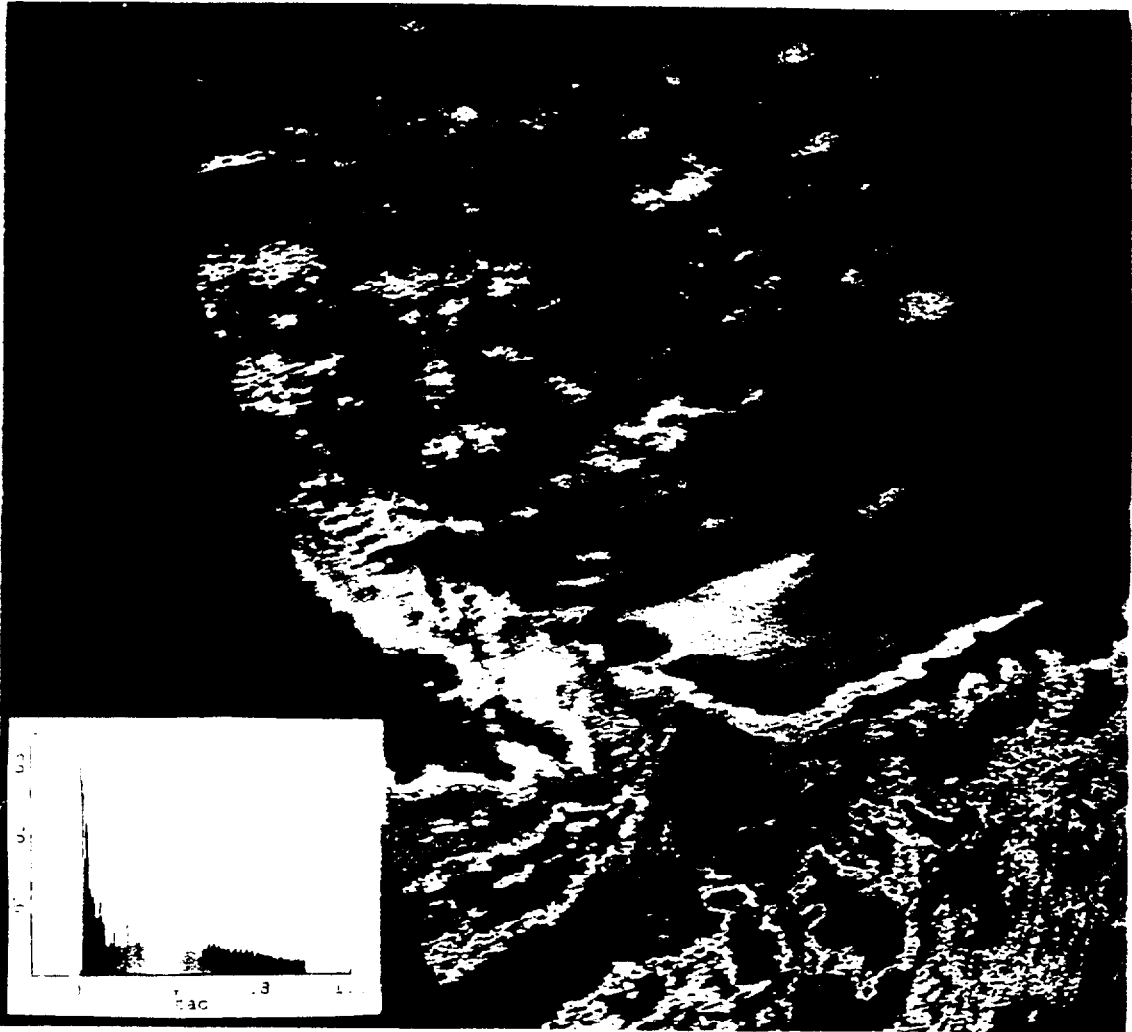
Station ALOHA ●



ASIA 1957

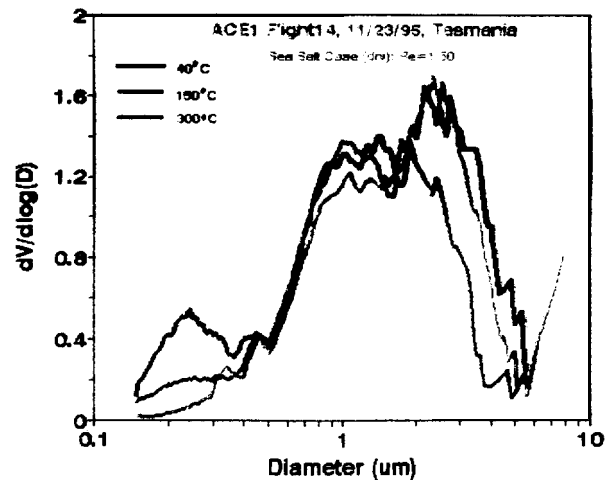
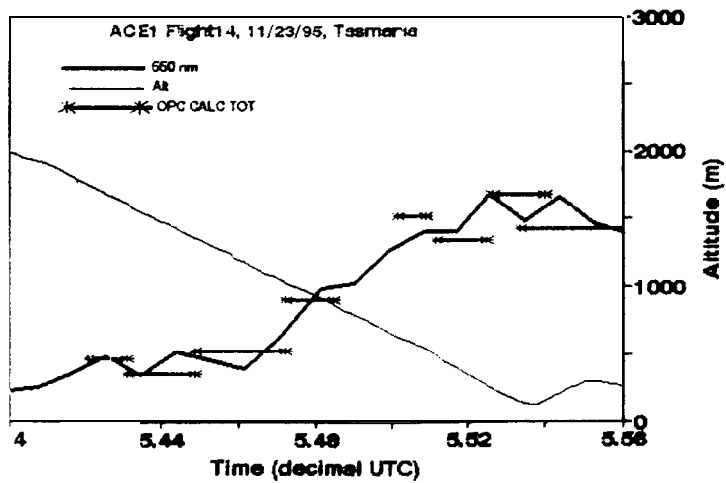
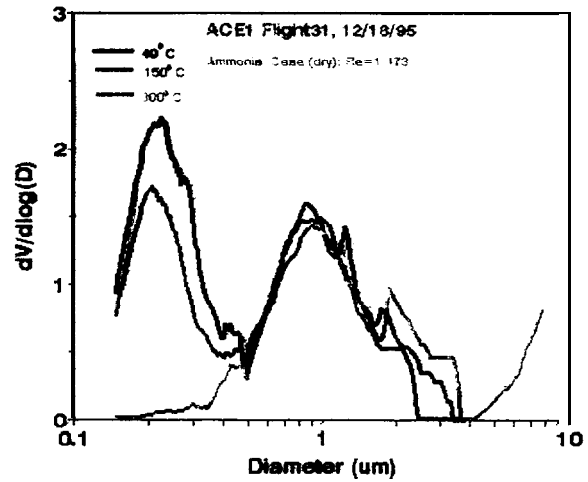
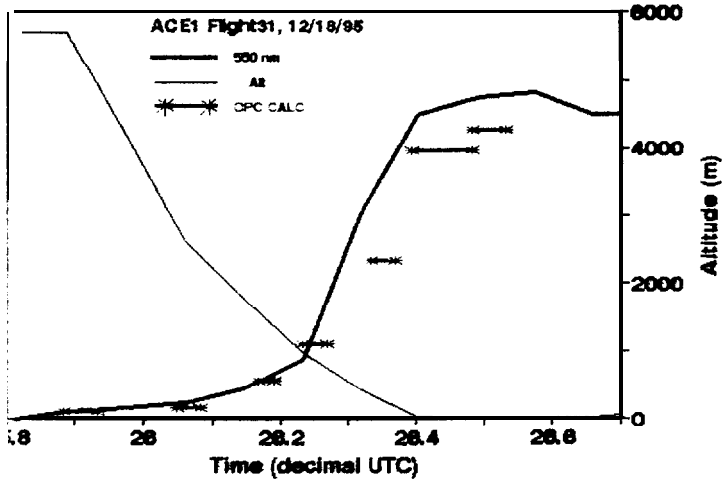
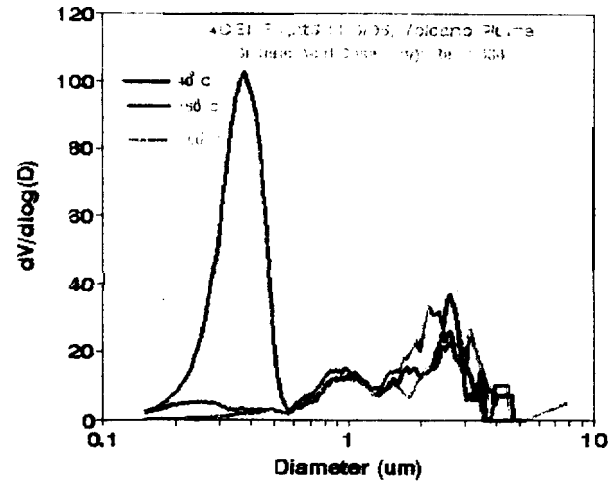
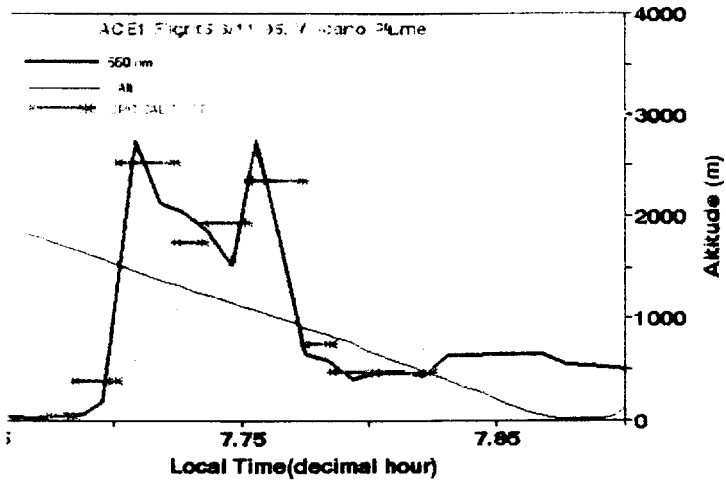
Aerosol AIRR data

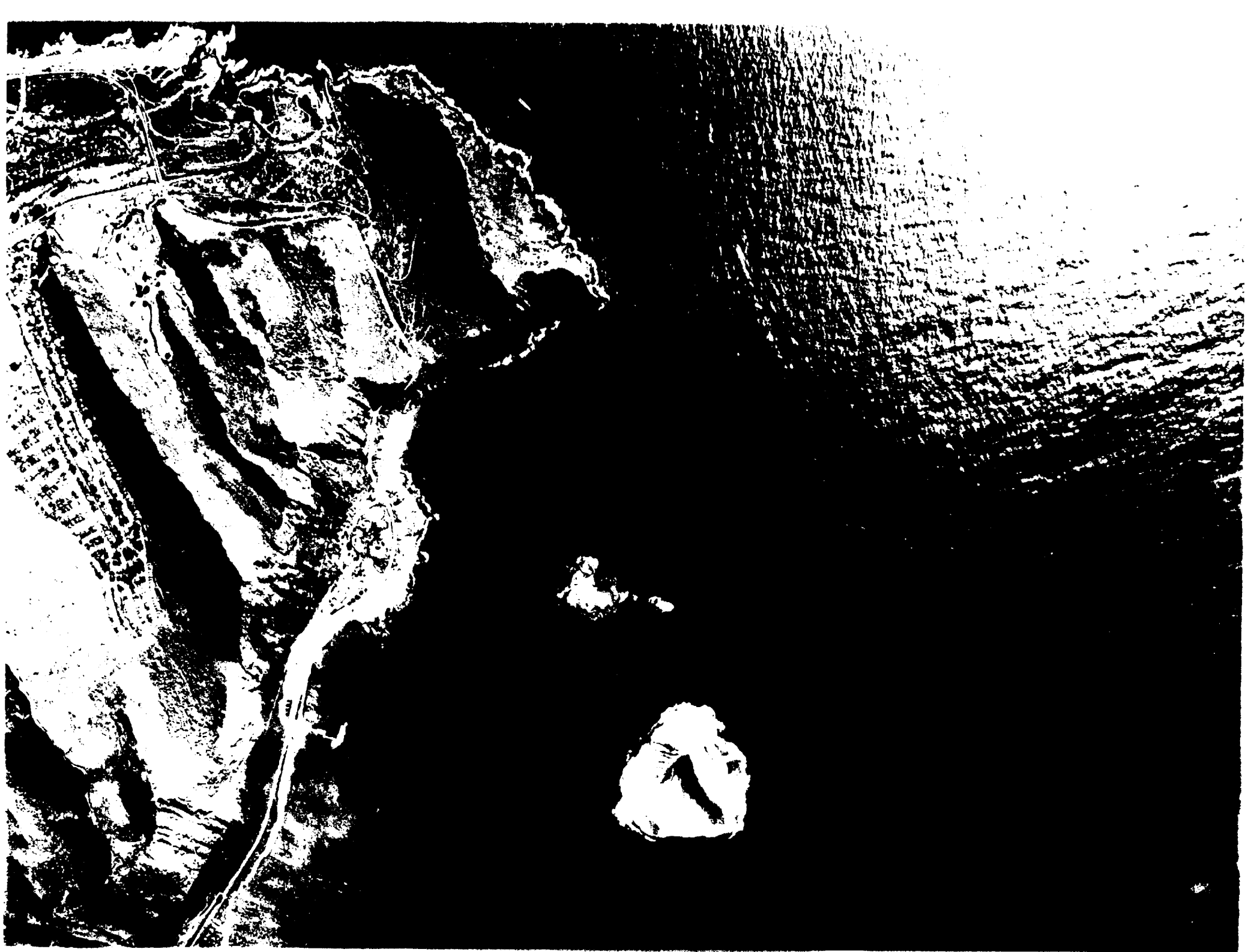
Upper Level  
Winds from  
East  
→

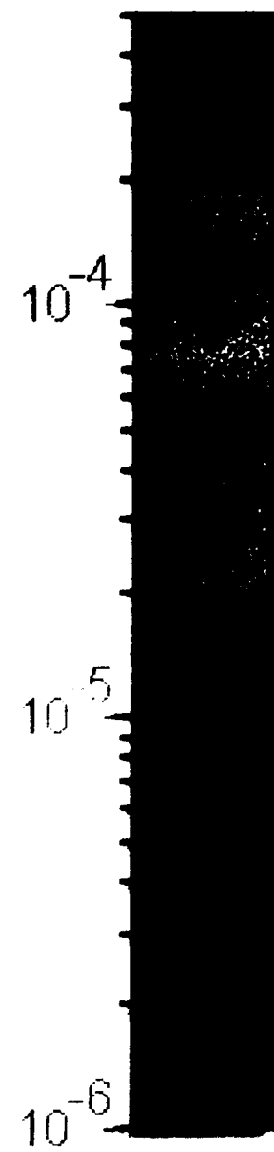
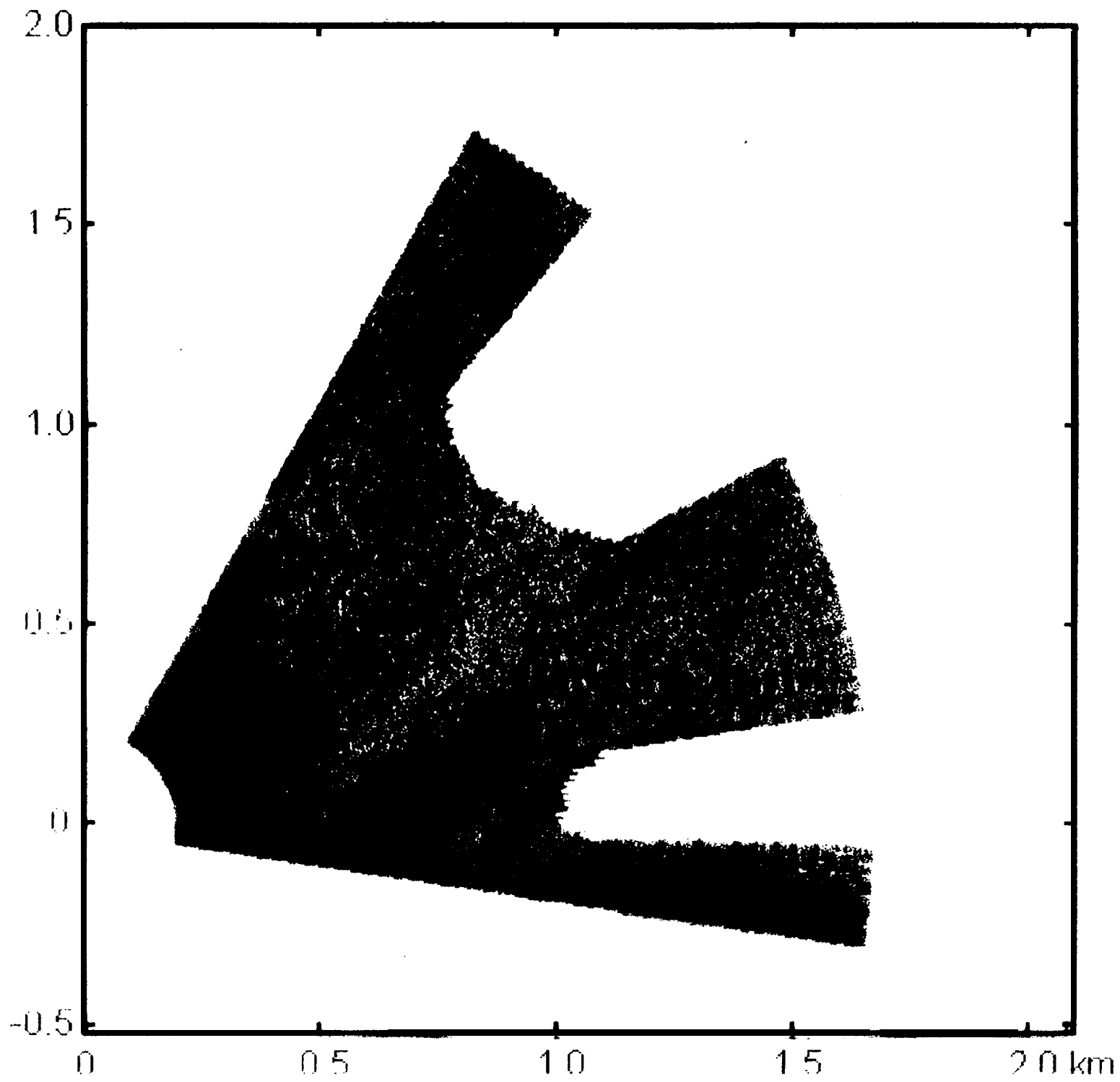


Low Level  
Trade  
Wind  
NE

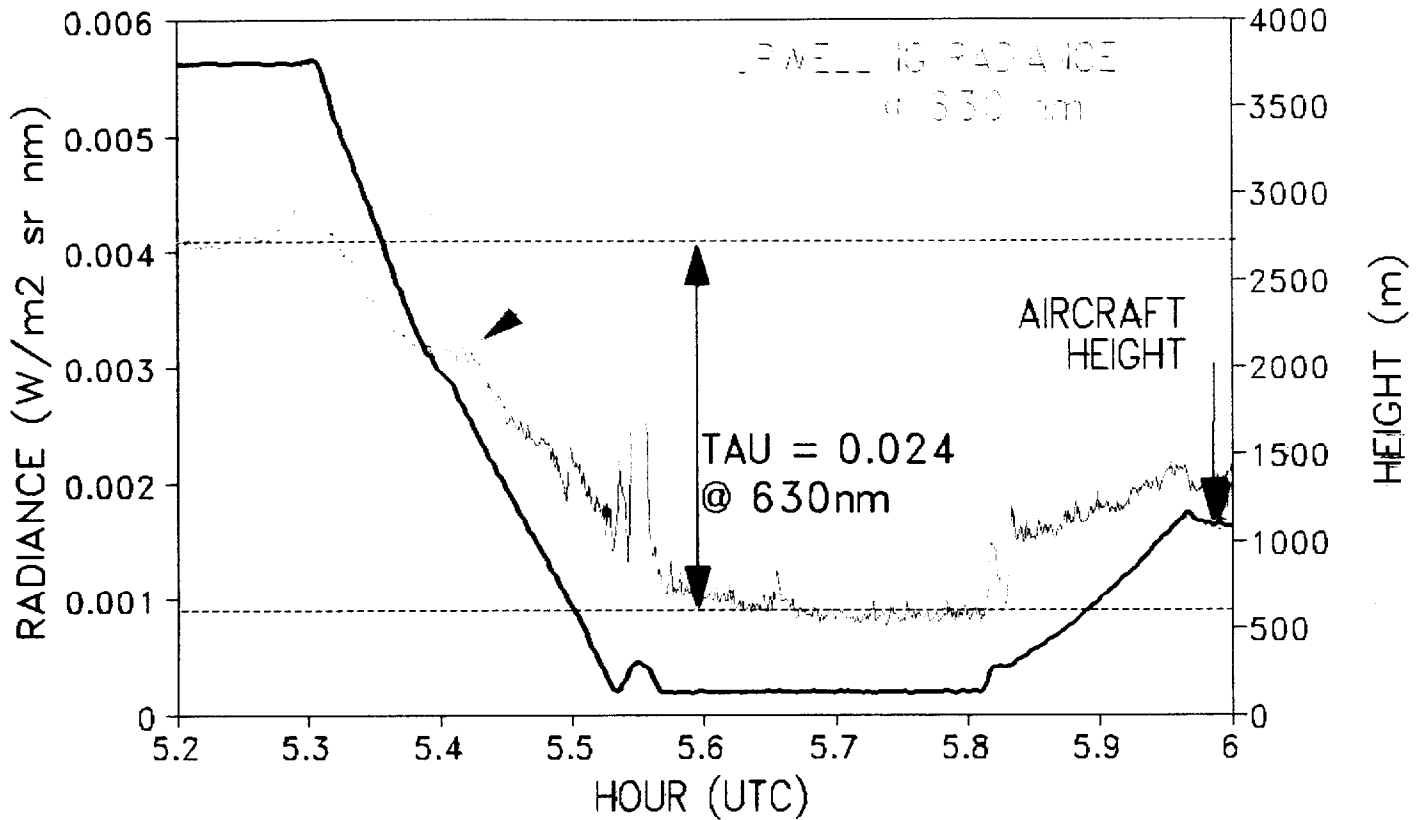
Feb 20, 1957



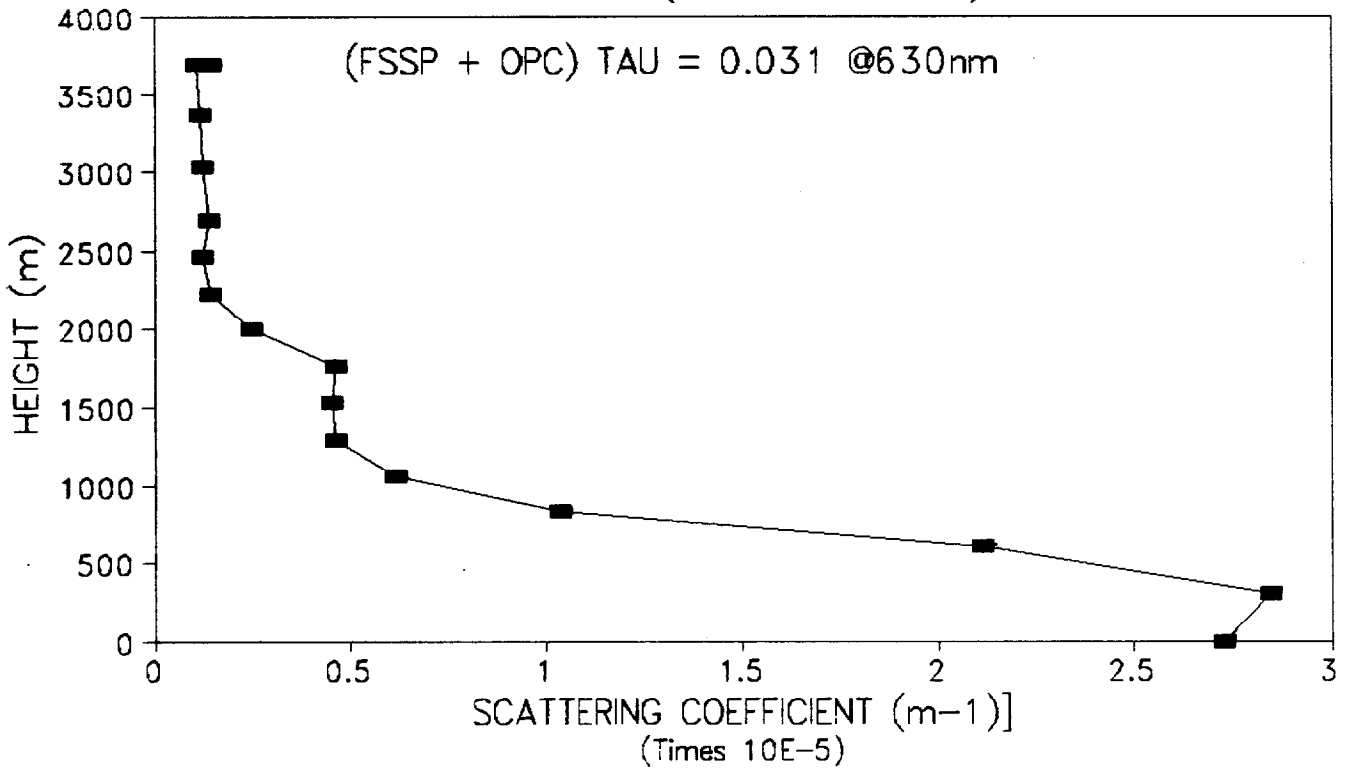




# ACE1 FLIGHT 14, DAY 328



# ACE1 FLIGHT 14 (5:12-5:36)



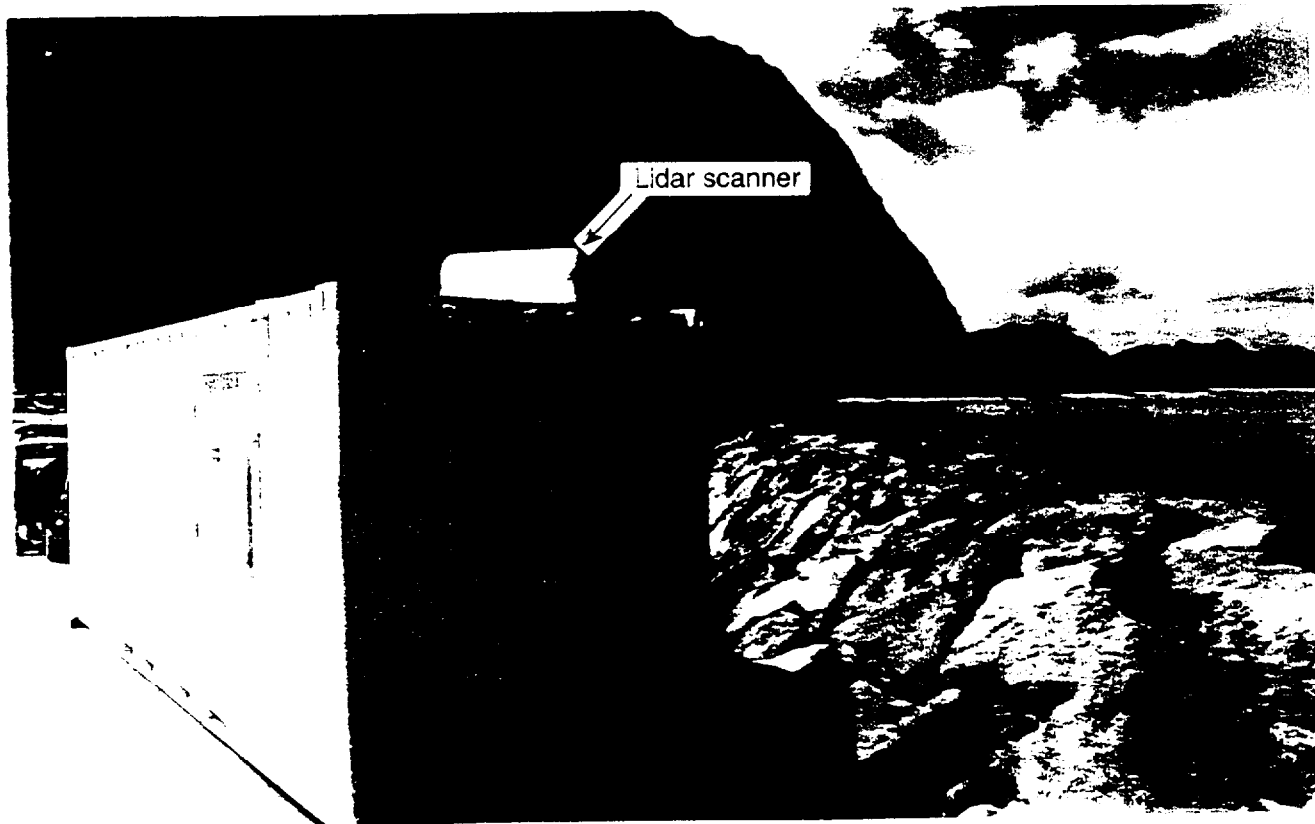


Fig. The LIDAR container at its present site at Waikanae (bottom photograph), as well as a view of Waimanala Bay looking northwest towards the SIOFS Aerosol Studies group's site at Bellows Beach AFS (top photograph).

**AIRCRAFT RADIATION AND AEROSOL MEASUREMENTS  
NEAR HAWAII: SATELLITE VALIDATION AT  
THE MOBY BUOY AND THE HOT SITE  
BY JOHN N. PORTER AND ANTONY D. CLARKE**

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**GOALS**

**TEST/IMPROVE OCEAN COLOR CORRECTIONS**

FLIGHTS OVER THE MOBY BUOY (~ONCE A MONTH)  
FLIGHTS OVER THE HOTS SITE (~ONCE A MONTH)  
SURFACE MEASUREMENTS NEAR MAKAPUU

**TEST/IMPROVE SATELLITE DERIVED RADIATIVE FLUXES**

FLIGHTS OVER THE HOTS SITE (~ONCE A MONTH)  
FLIGHTS OVER MAKAPUU (~TWICE A MONTH)  
SURFACE MEASUREMENTS NEAR MAKAPUU

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**AIRCRAFT MEASUREMENTS**

AEROSOL OPTICAL DEPTH  
SCANNING UP/DOWN RADIANCE (SPECTRAL)  
UP AND DOWN IRRADIANCE (BROAD AND SPECTRAL)  
AEROSOL SIZE DISTRIBUTION (SELECTED FLIGHTS)  
AEROSOL SCATTERING COEFFICIENT (SELECTED FLIGHTS)  
TEMP, PRESS, RELATIVE HUMIDITY  
WIDE FIELD OF VIEW CAMERAS  
OTHER

**SURFACE LAND MEASUREMENTS AT MAKAPUU POINT**

AEROSOL OPTICAL DEPTH  
AUREOLE AND SKY RADIANCE  
DOWN IRRADIANCE (BROAD AND SPECTRAL)  
SKY CAMERA TO DERIVE CLOUD COVER  
TEMP, PRESS, RH, WIND DIR. AND SPEED  
GPS WATER VAPOR (BEVIS ET AL.)  
AEROSOL AND WATER VAPOR LIDAR (SHARMA ET AL.)  
MLO SPECTRAL IRRADIANCE DIFF.

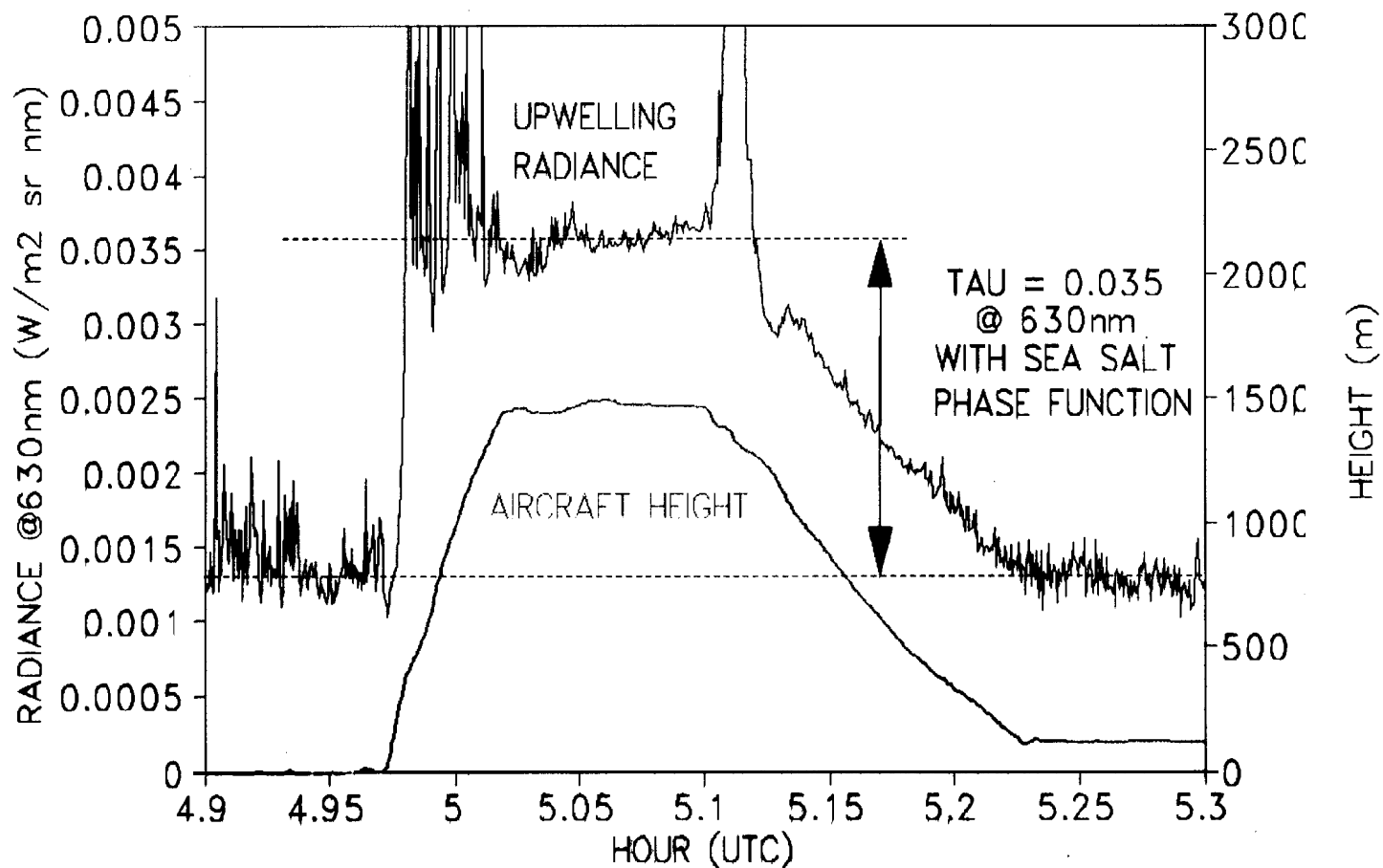
**SURFACE SHIP MEASUREMENTS**

MOBY CRUISES (DENNIS CLARK ET AL.)  
HOT CRUISES FUNDED BY SIMBIOS



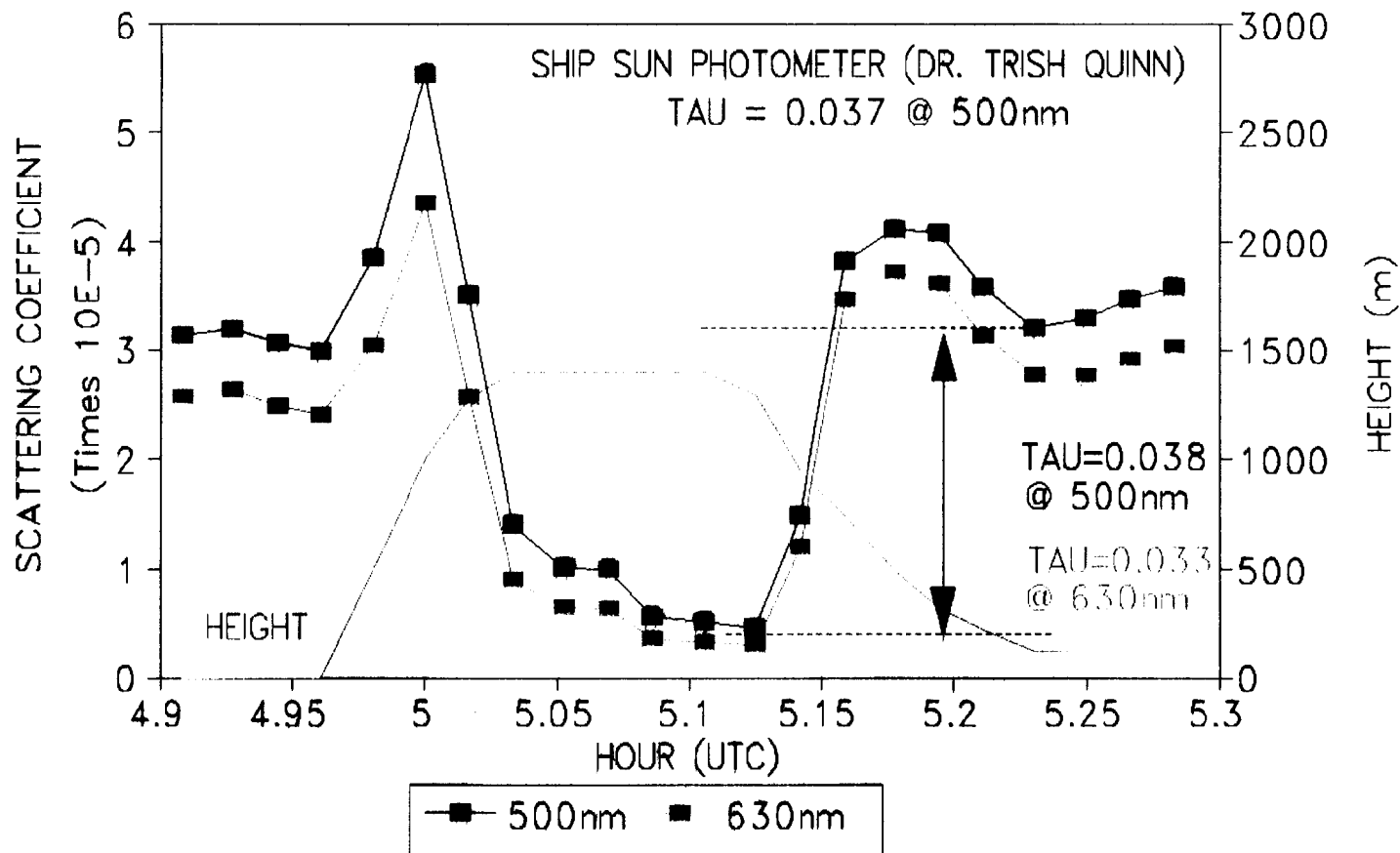
# ACE1 FLIGHT 22 (day 339)

## DR. PORTER SPECTROMETER MEASUREMENTS



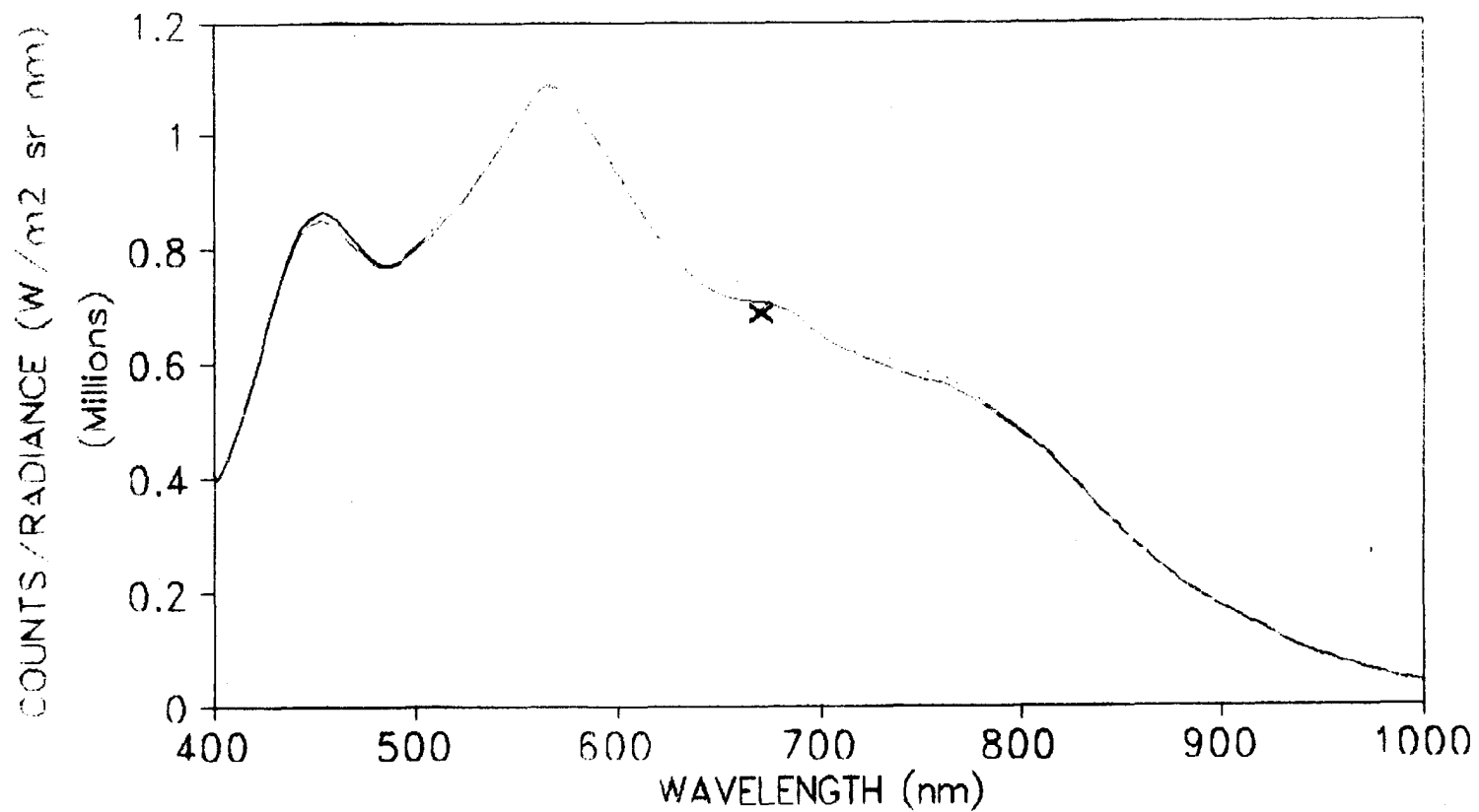
# ACE1 FLIGHT 22 (day 339)

## FROM DR. BAUMGARDENER SIZE DISTRIBUTION



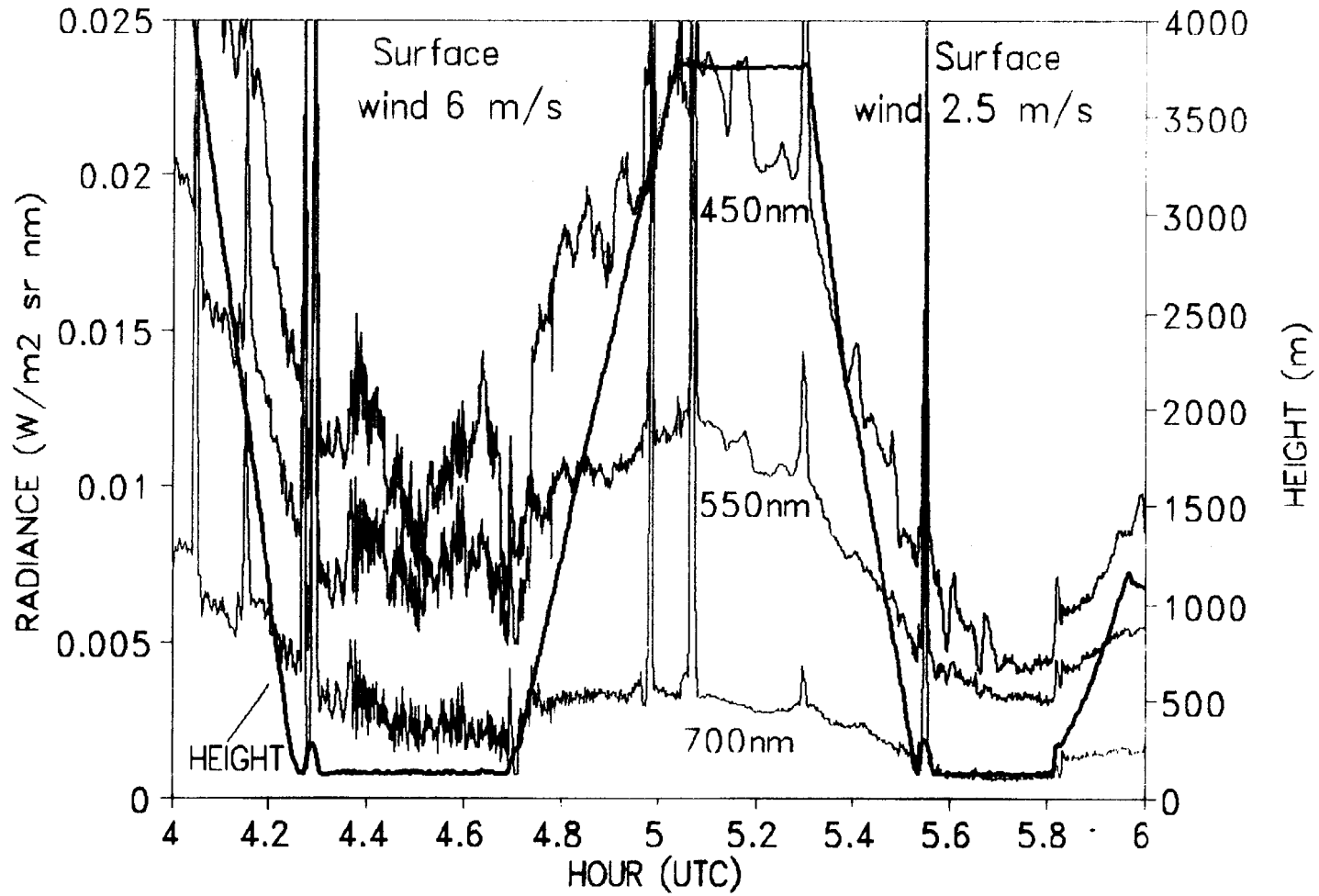
# ZEISS MMS1 CALIBRATION FOR TARFOX

UK-C130, LUCEY. Int. Light



— LUCEY    - - - UK-C130    x Int. Light

# ACE1 FLIGHT 14, DAY 328





40-107-1  
10/1/60

6

10/1/60  
10/1/60

Feb. 24, 1995

