

R.S. of AEROSOL & ATMOSPHERIC CORR.

INTERNATIONAL WORKSHOP

APRIL 15-19 JER-D PUBLICATION
Kaufman, Tarré, Nakajima, Gordon

- INFORMATION CONTENT OF $L(\tau)$ ^{GROUND}-SATELLITE
- * $L_3(\tau)$ OVER OCEAN $\rightarrow V_s/V_c, \tau_s? \tau_c?$
 \hookrightarrow CORRECTION
 - * $L_6(\lambda, \theta) \rightarrow \tau, \mu(\tau), W_0? m_r, m_i, P(\theta)$
 - * Particle shape and structure

AFGL MODELS \Leftrightarrow DYNAMIC MODELS
THE PARAMETER SPACE AERONET

WHICH PARAMETERS DO WE DERIVE
AND ARE THEY WANT NEEDED BY
SCIENTIFIC COMMUNITIES.

INTEGRATION BETWEEN SYSTEMS
MODIS/MISR/POLDER/OCTS/OLI

GROUND MONITORING OF AEROSOL
SIZE, CHEMISTRY

VALIDATION: AERONET, AIRCRAFT

ATMOSPHERIC CORRECTION

WATER VAPOR, OZONE, | POLAR
REGIONS

WIND SPEED

OCEANIC CLOUD-INSTRUMENT VS AEROSOL

INVERSIONS — SATELLITE
— GROUND

AEROSOL ABSORPTION — HOW TO MEASURE
& HANDLE

.72

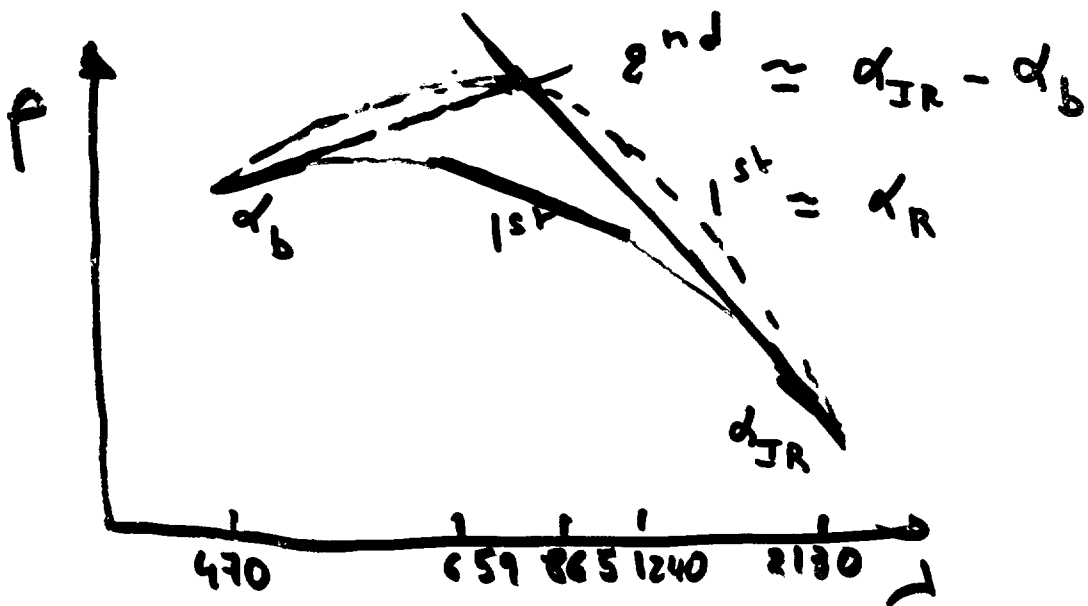
470

2130



2 quantities

(1st comp)
(2nd comp)



$$\alpha = \frac{\ln(P_{\lambda_1}/P_{\lambda_2})}{\ln(\lambda_1/\lambda_2)}$$

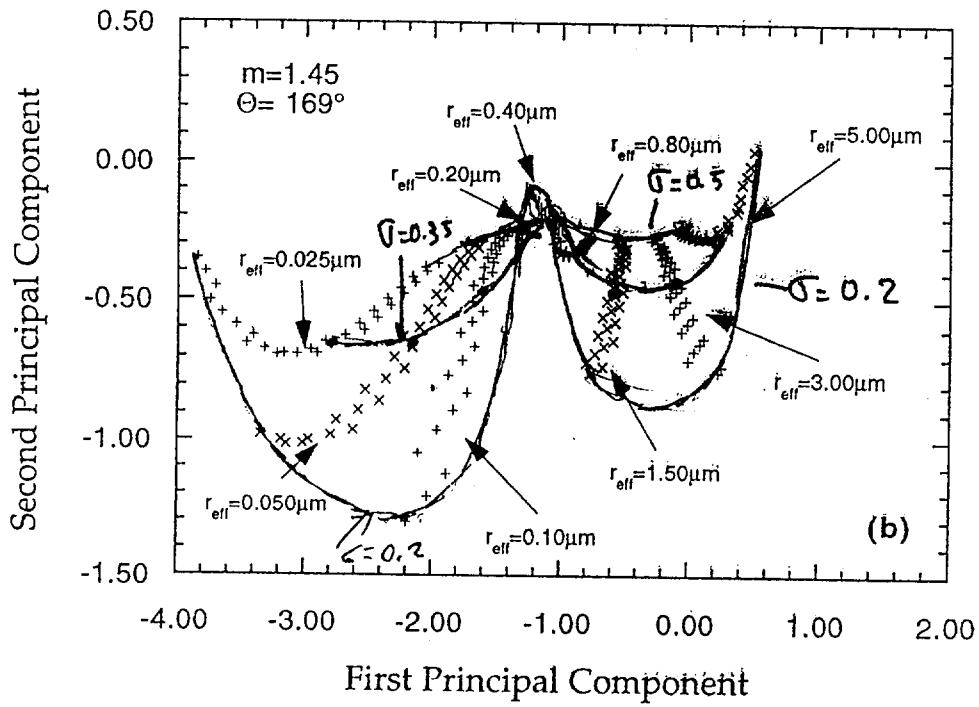
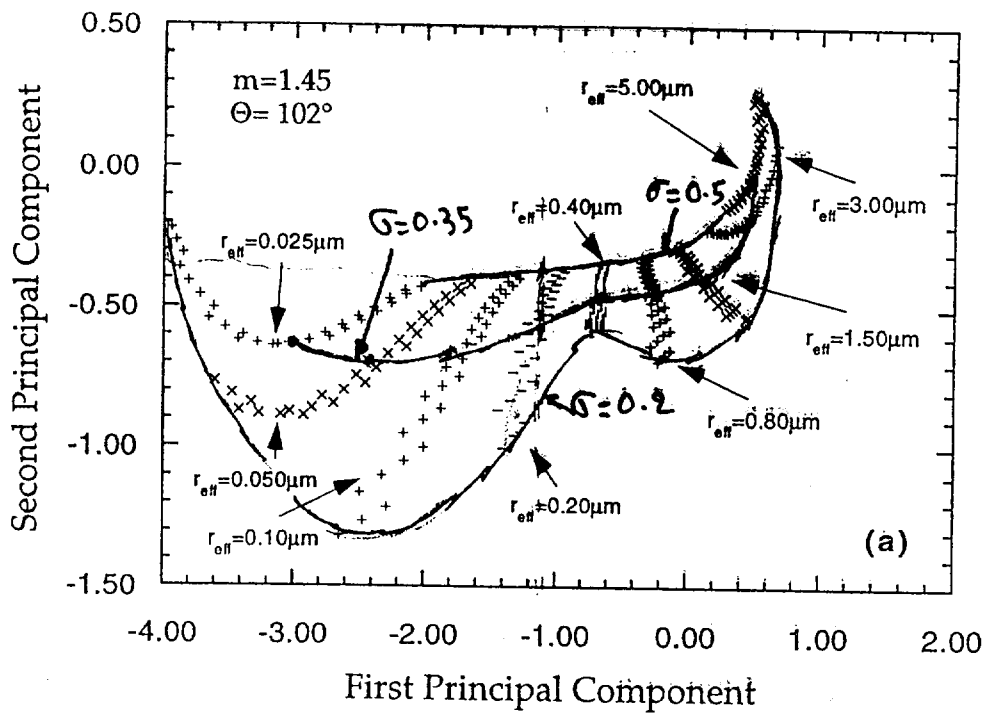


Fig 7

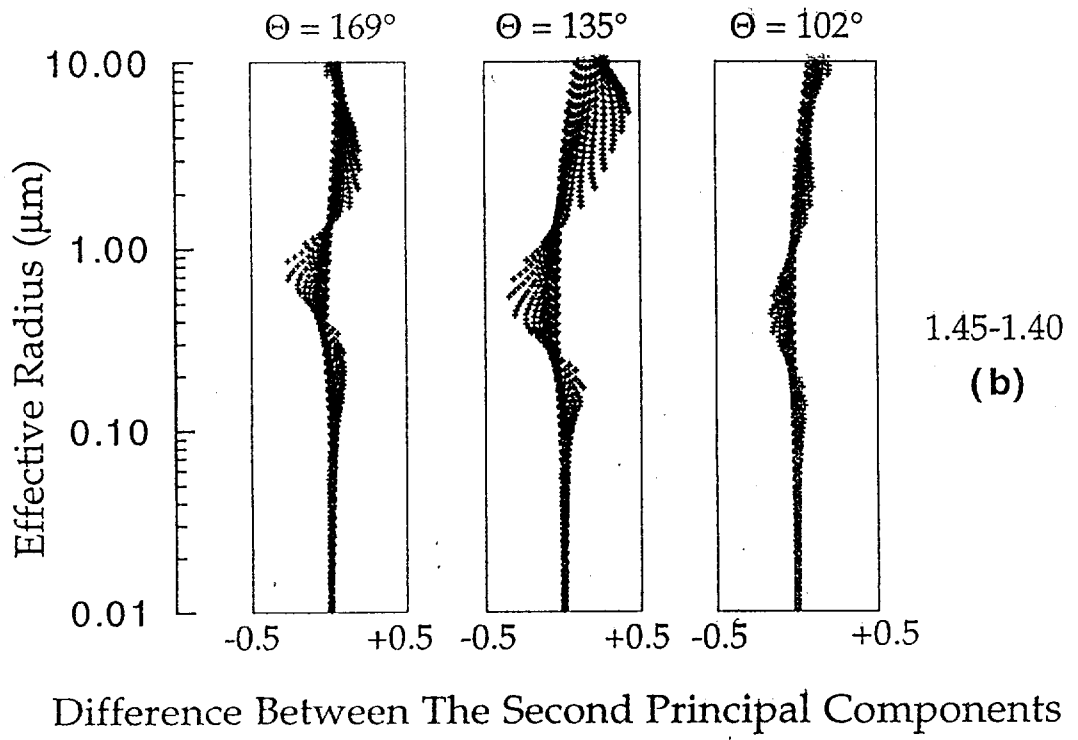
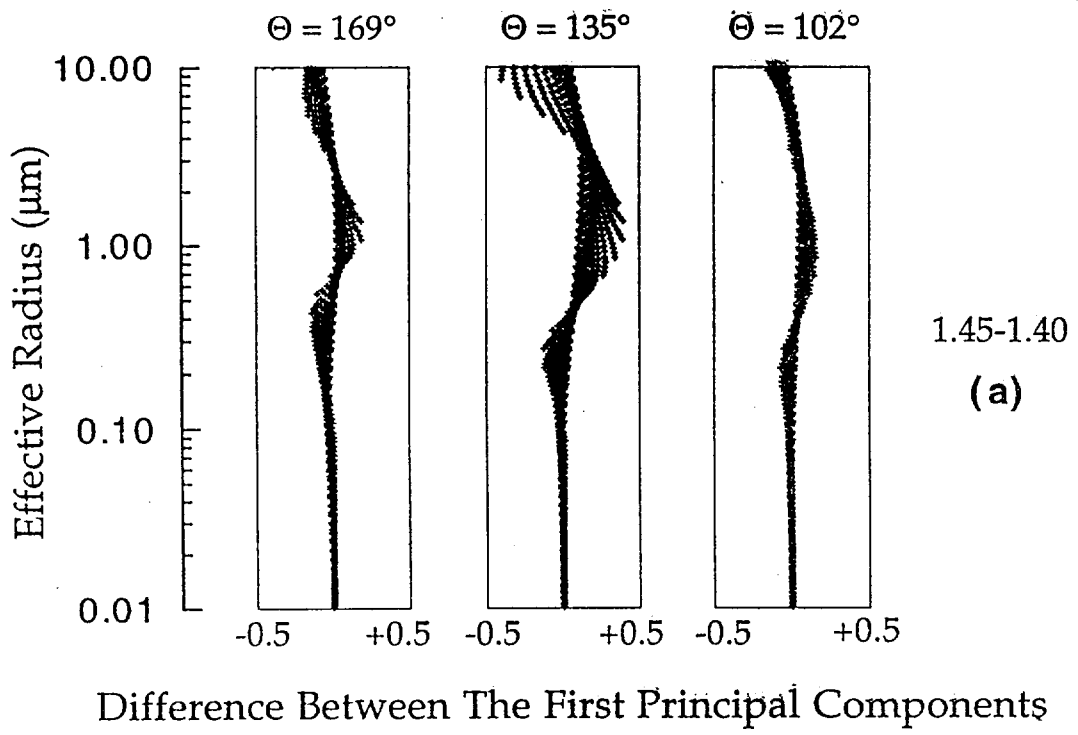
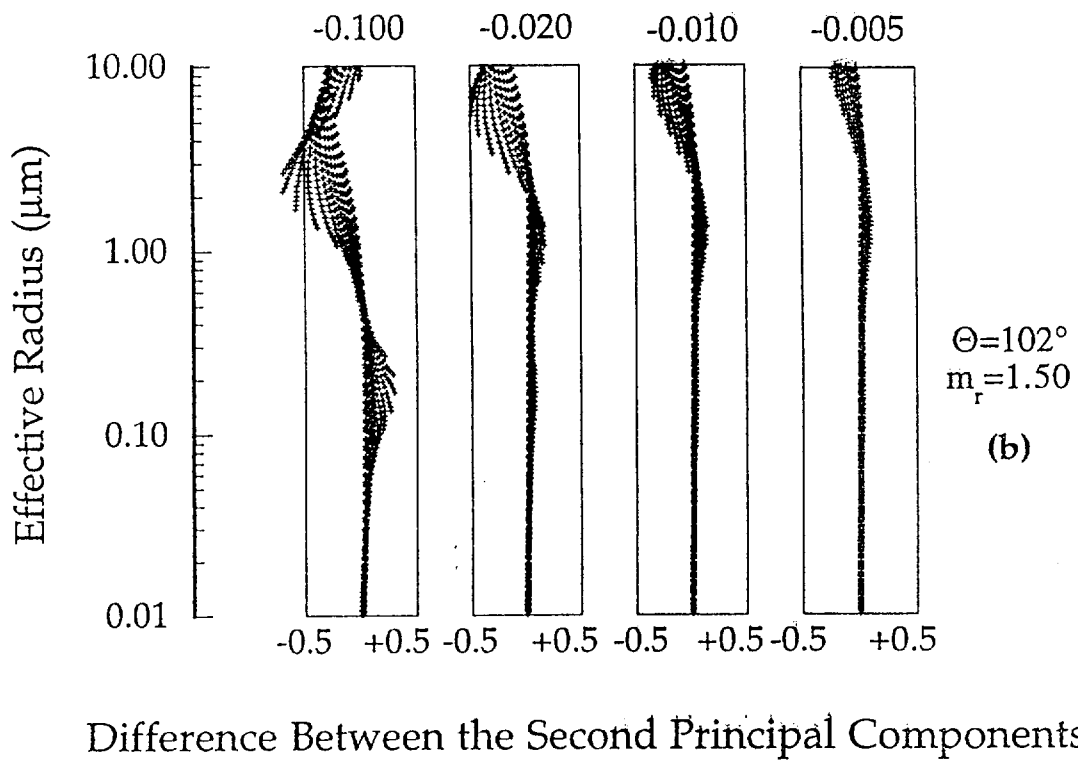
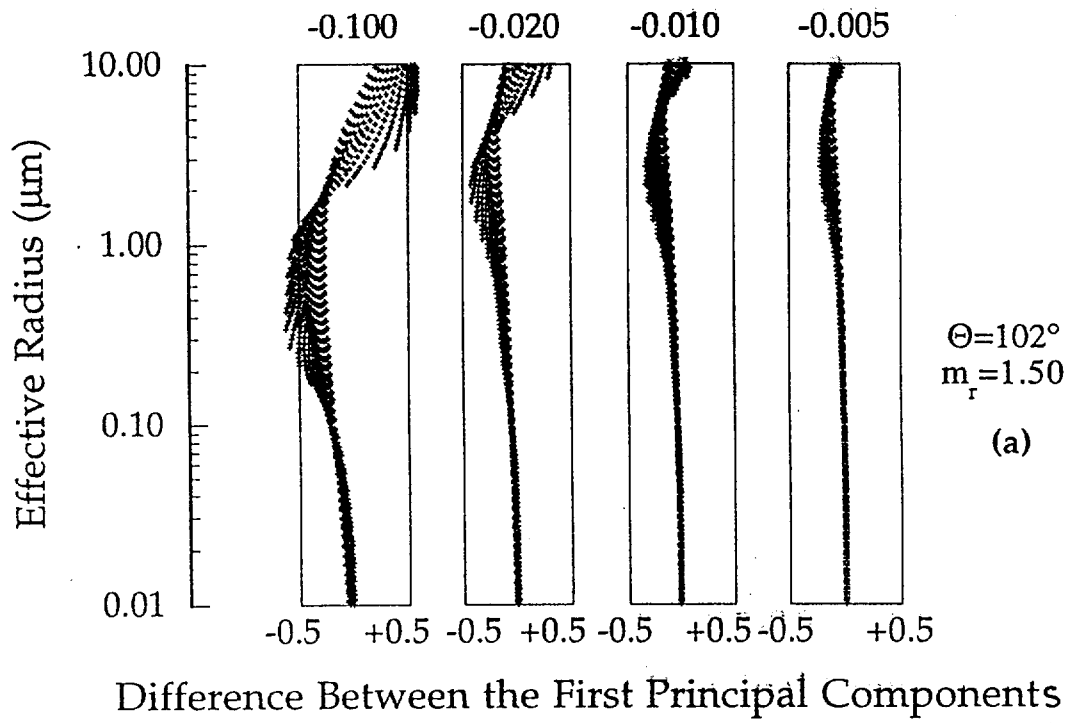


Fig. 9



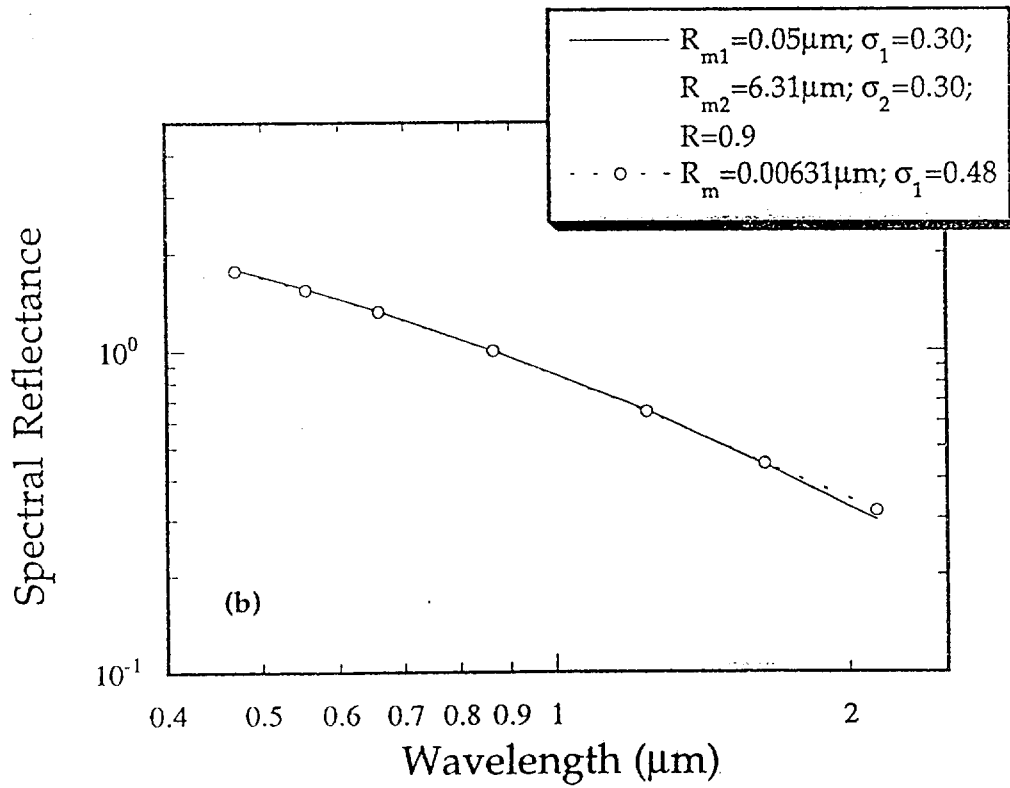
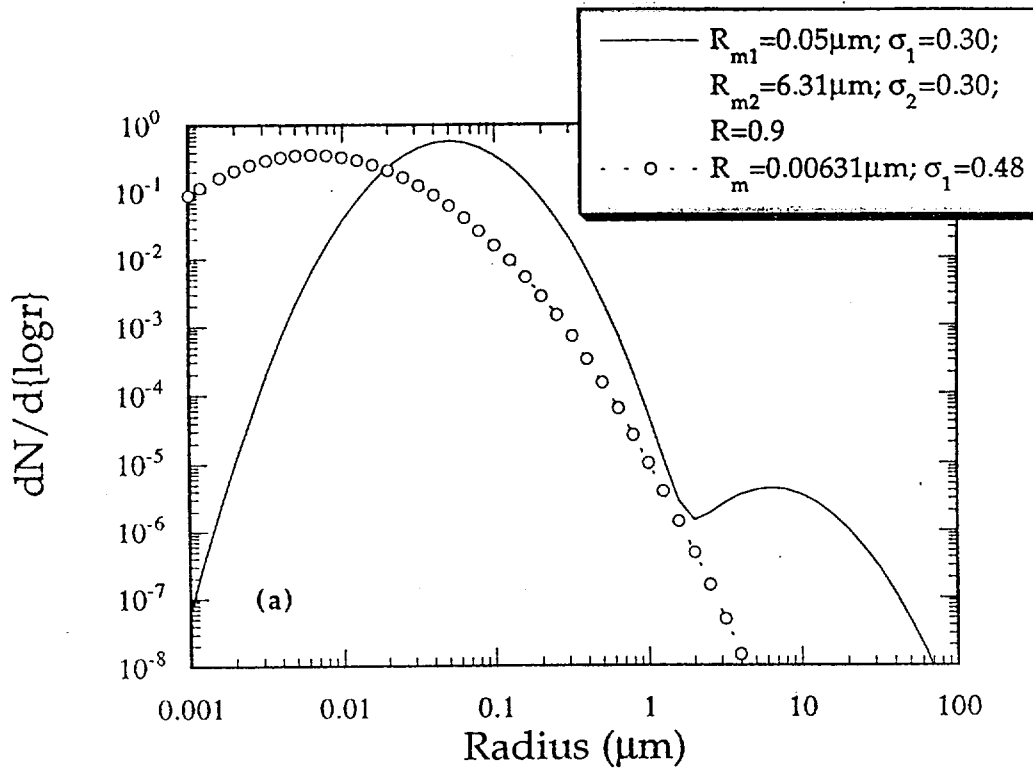
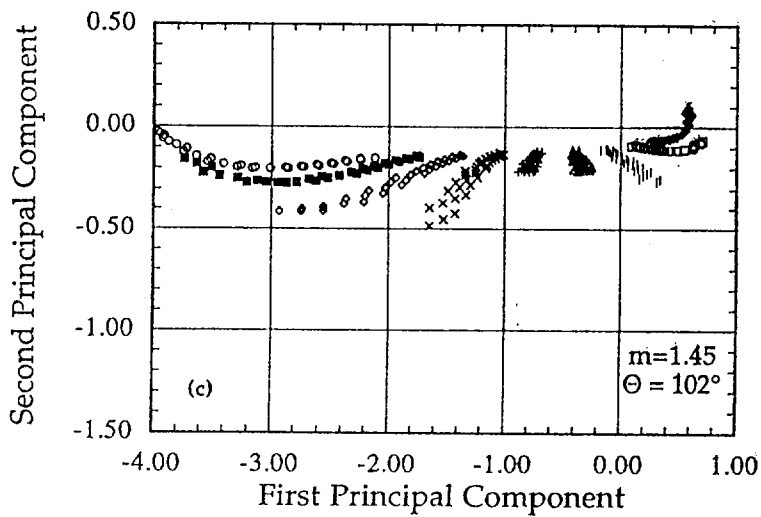
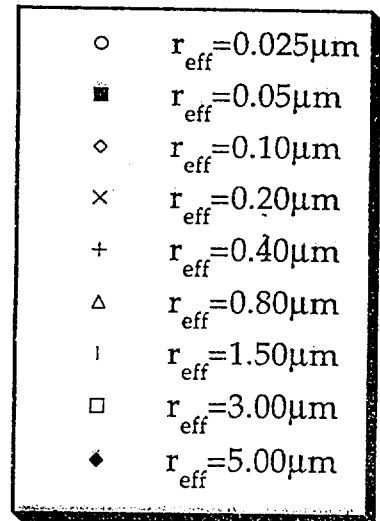
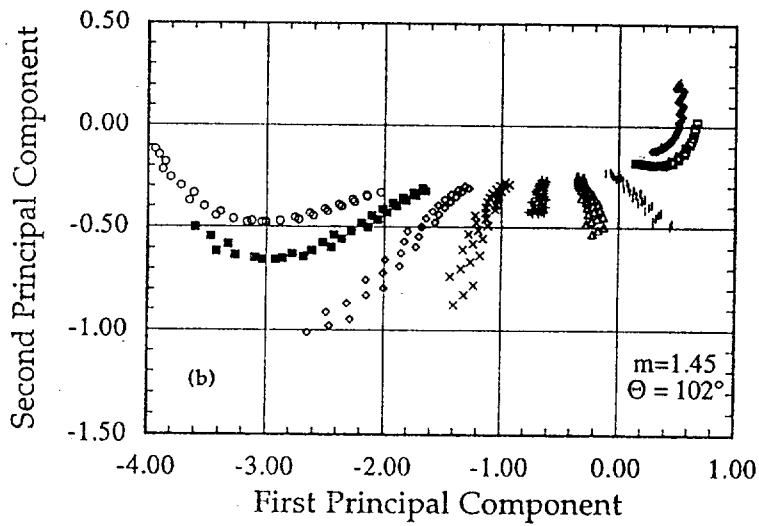
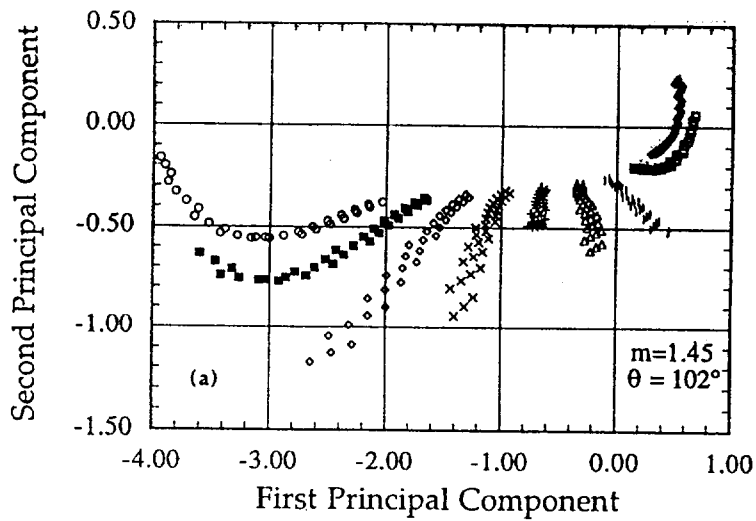
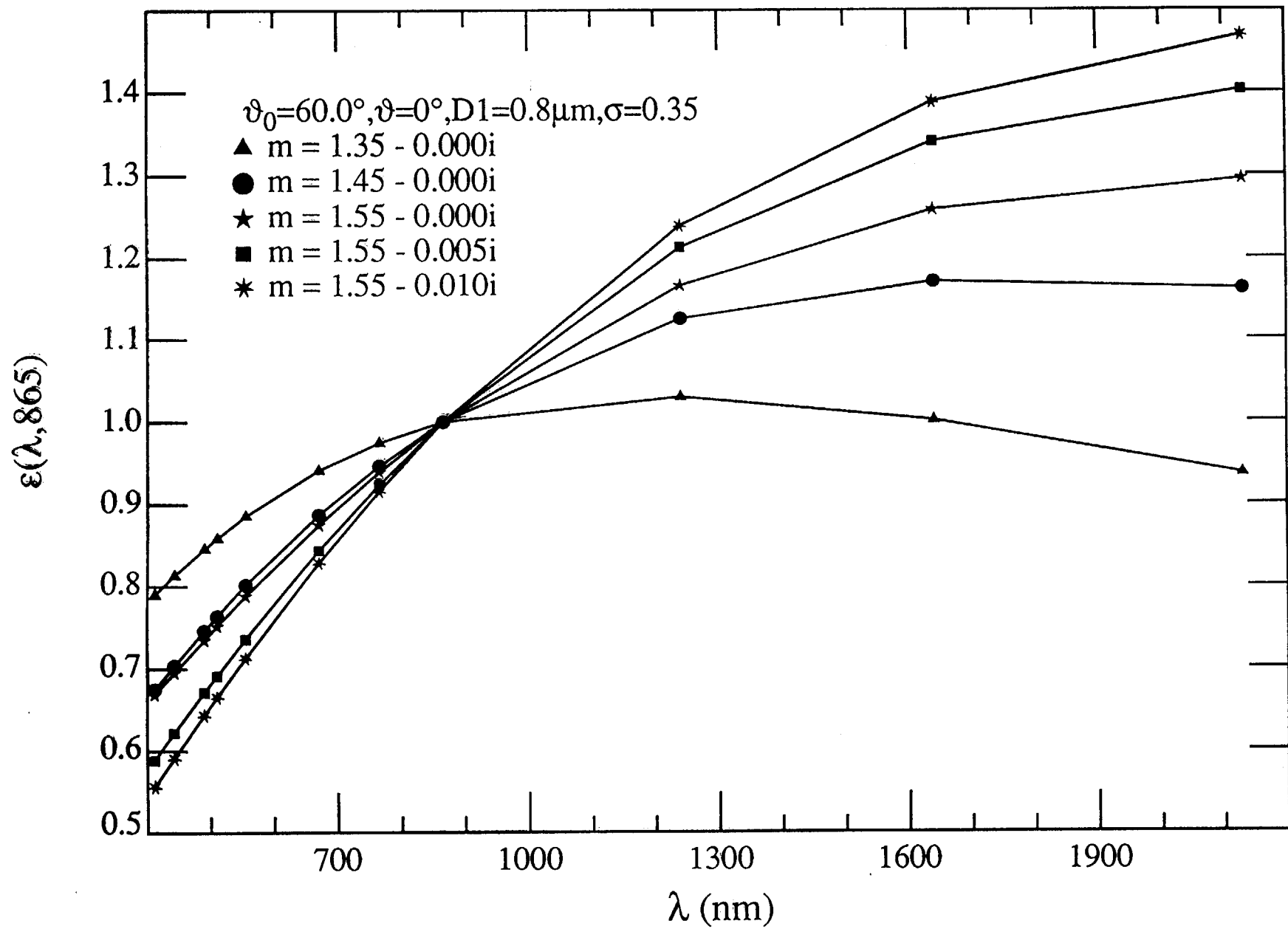
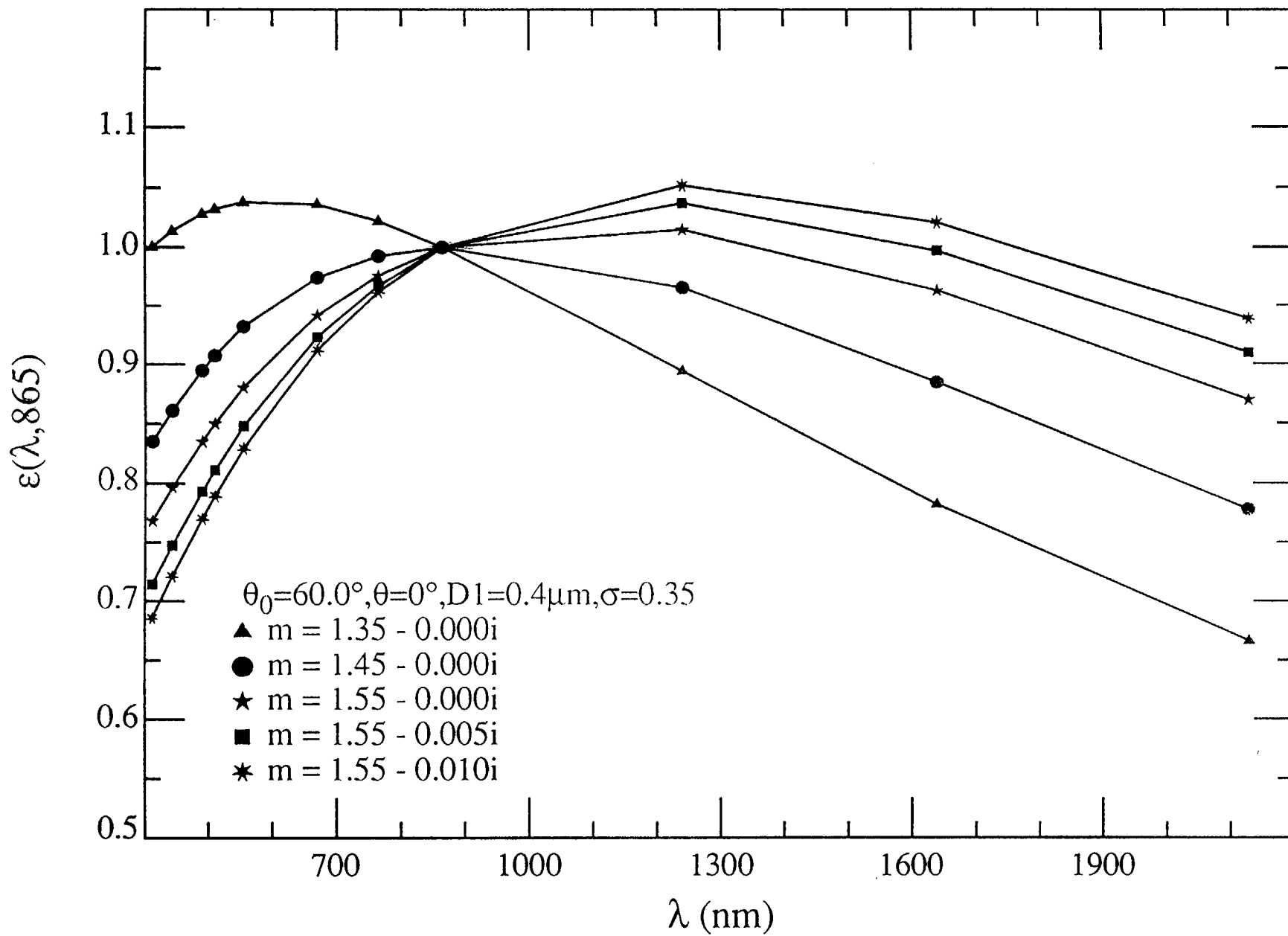
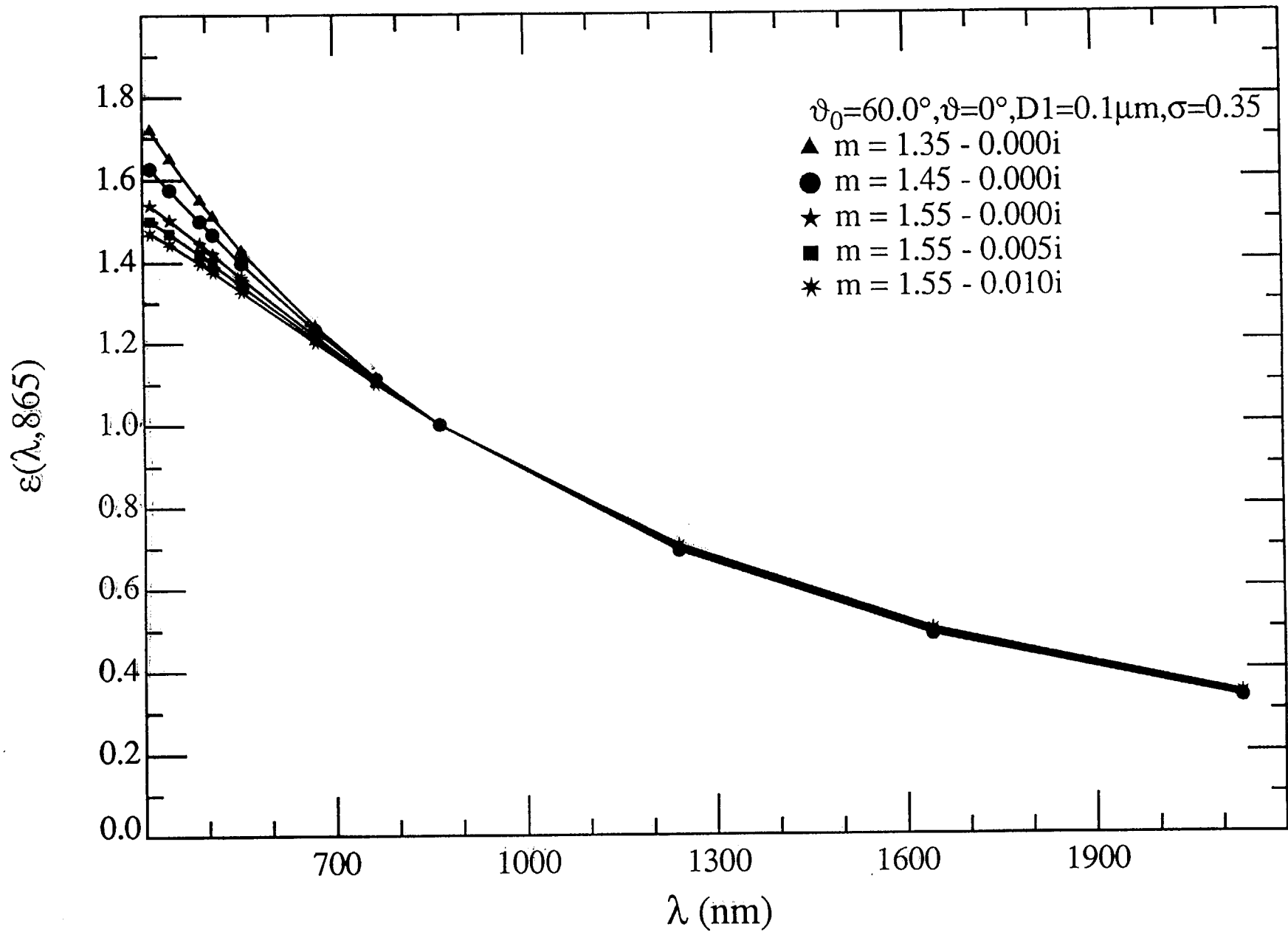


Fig. 17









July 28

descent near Wallops

bag 13:53-14:06a

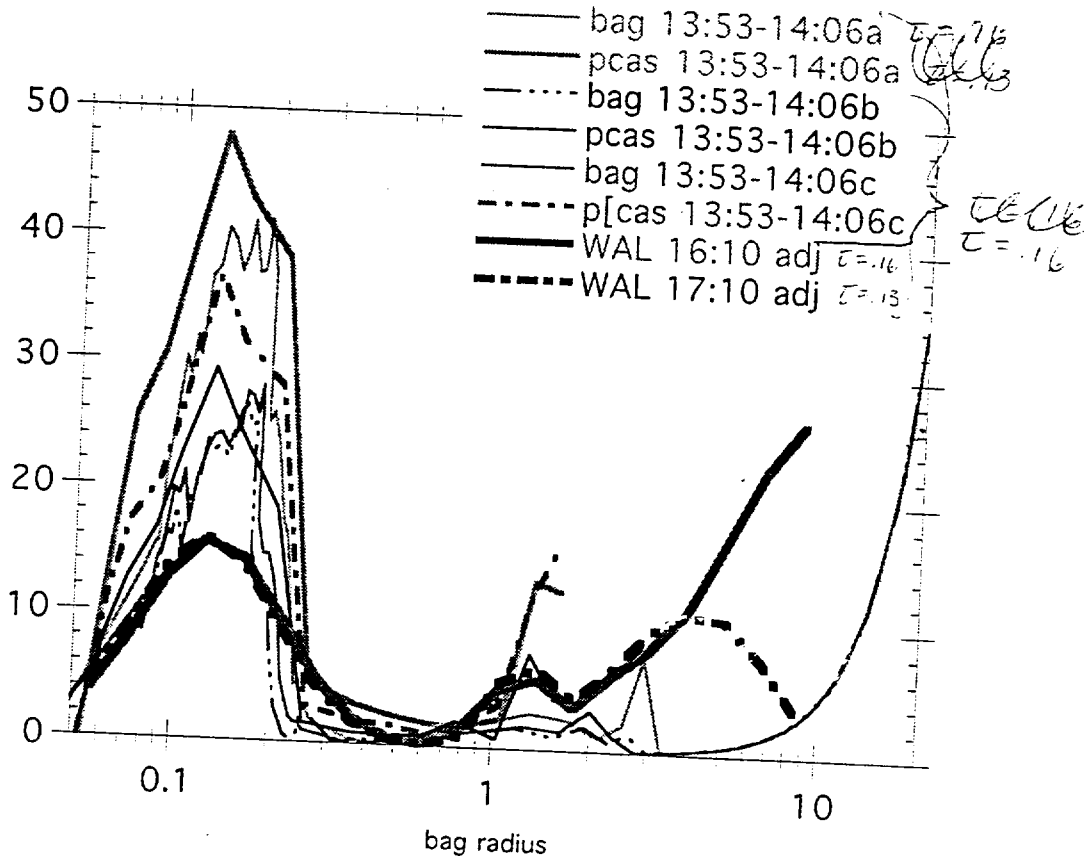
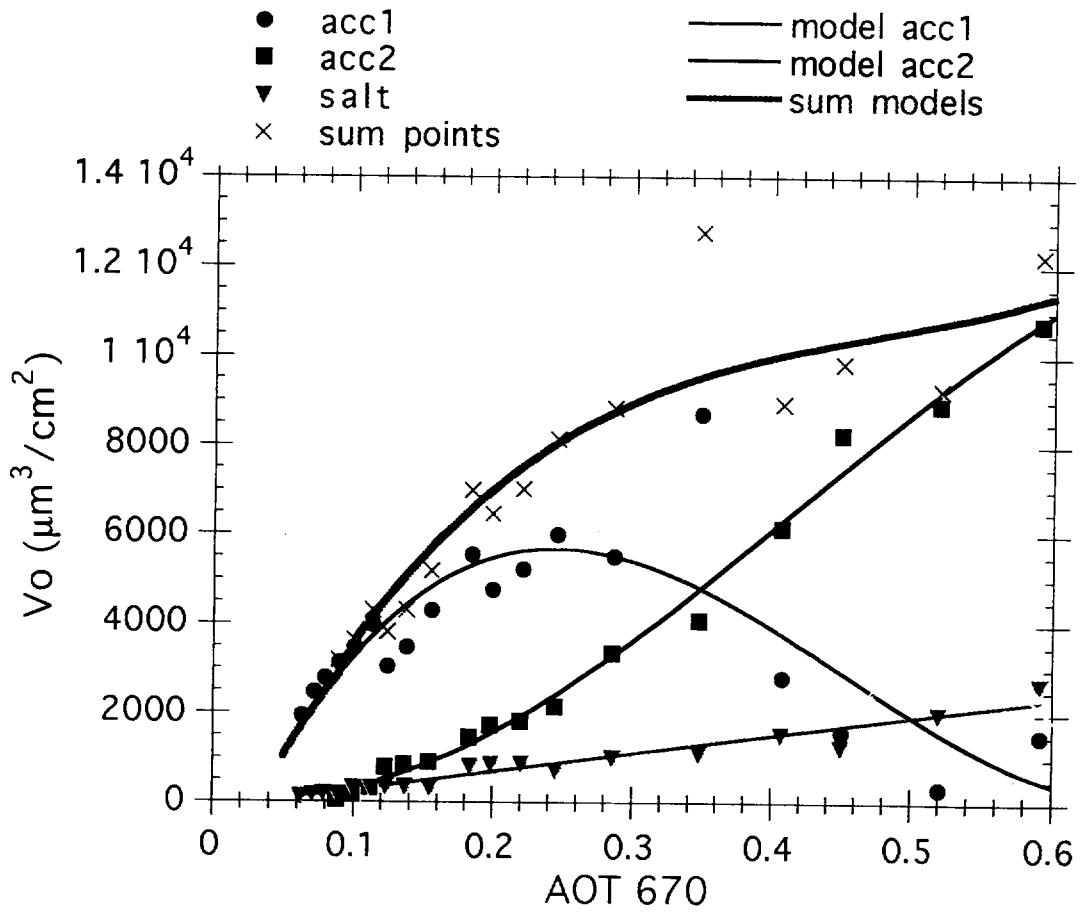
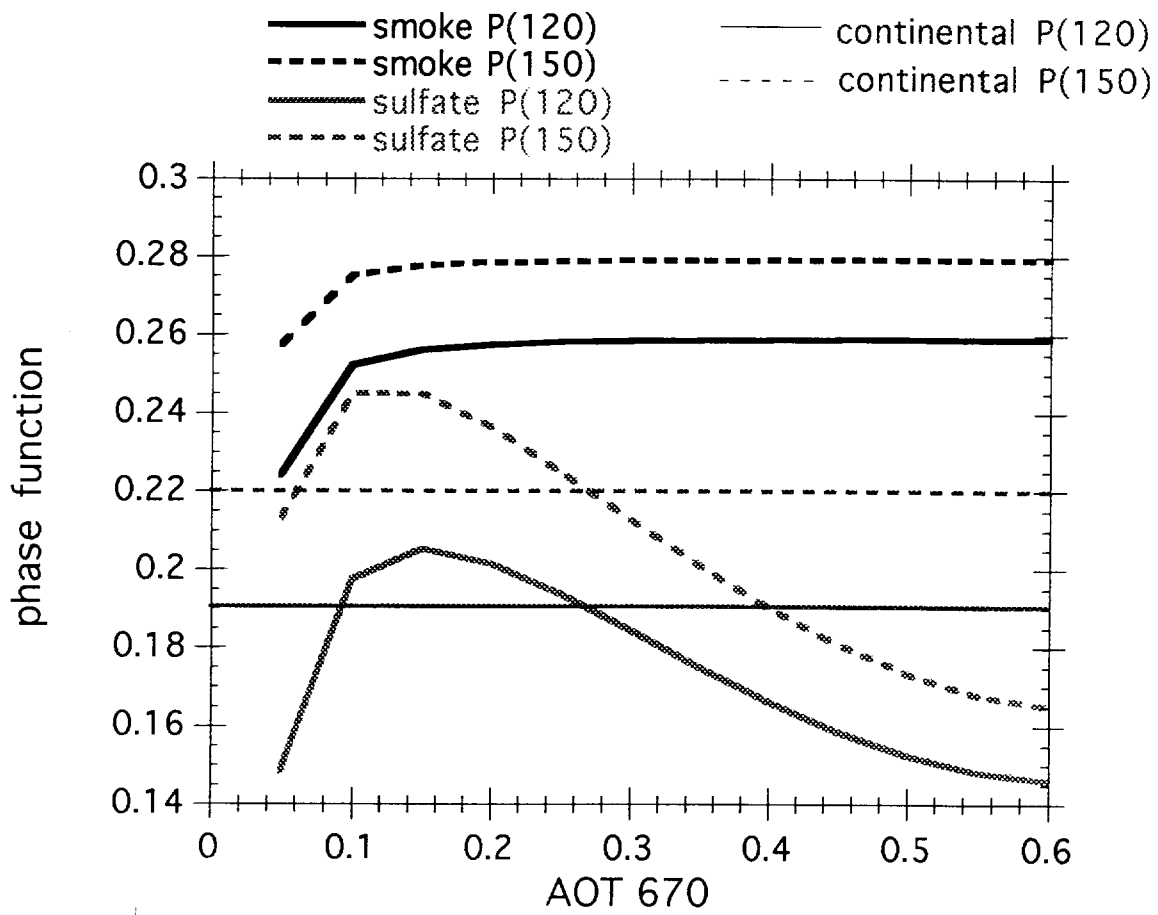


Fig. 14-15

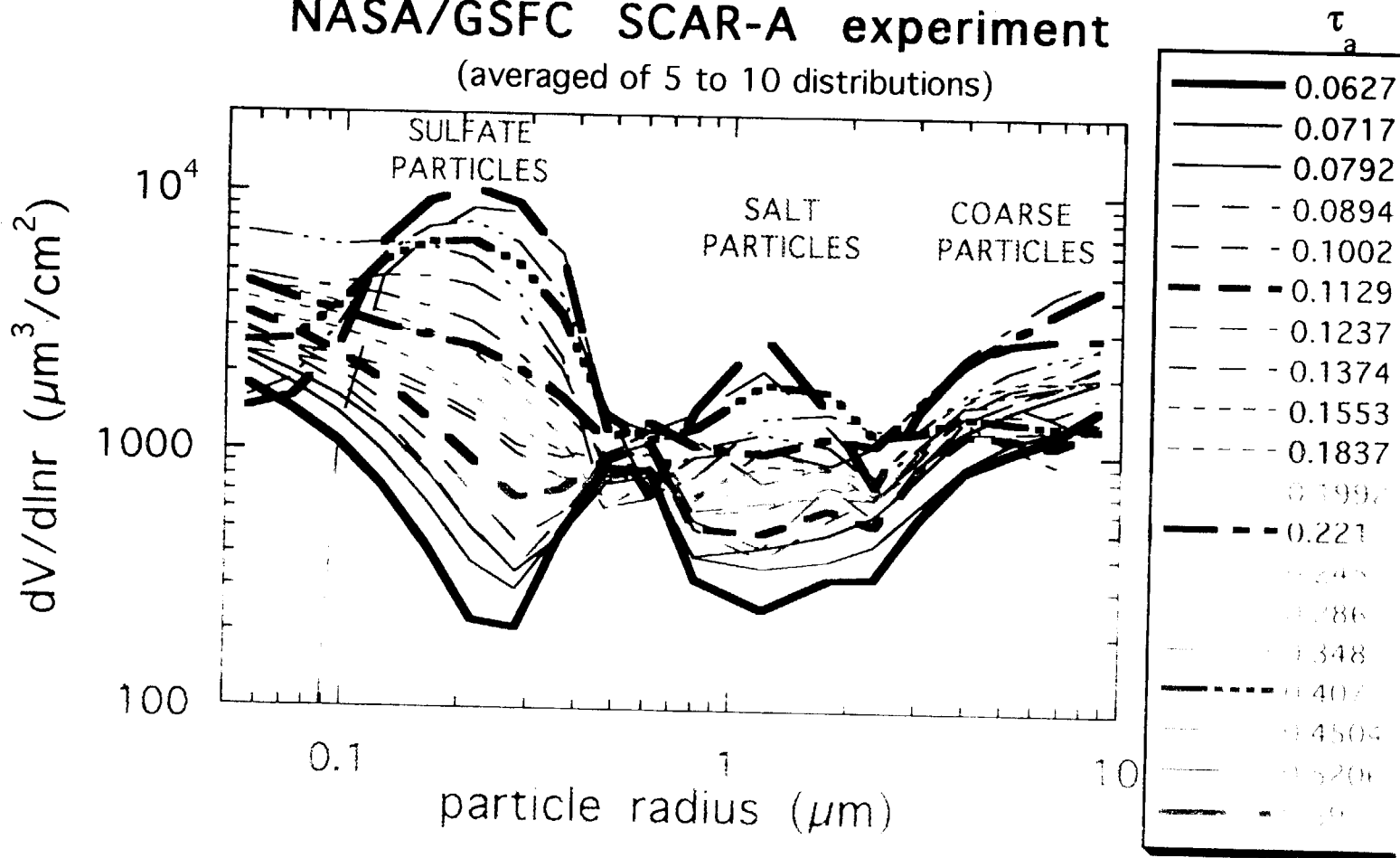
SCAR-A





NASA/GSFC SCAR-A experiment

(averaged of 5 to 10 distributions)



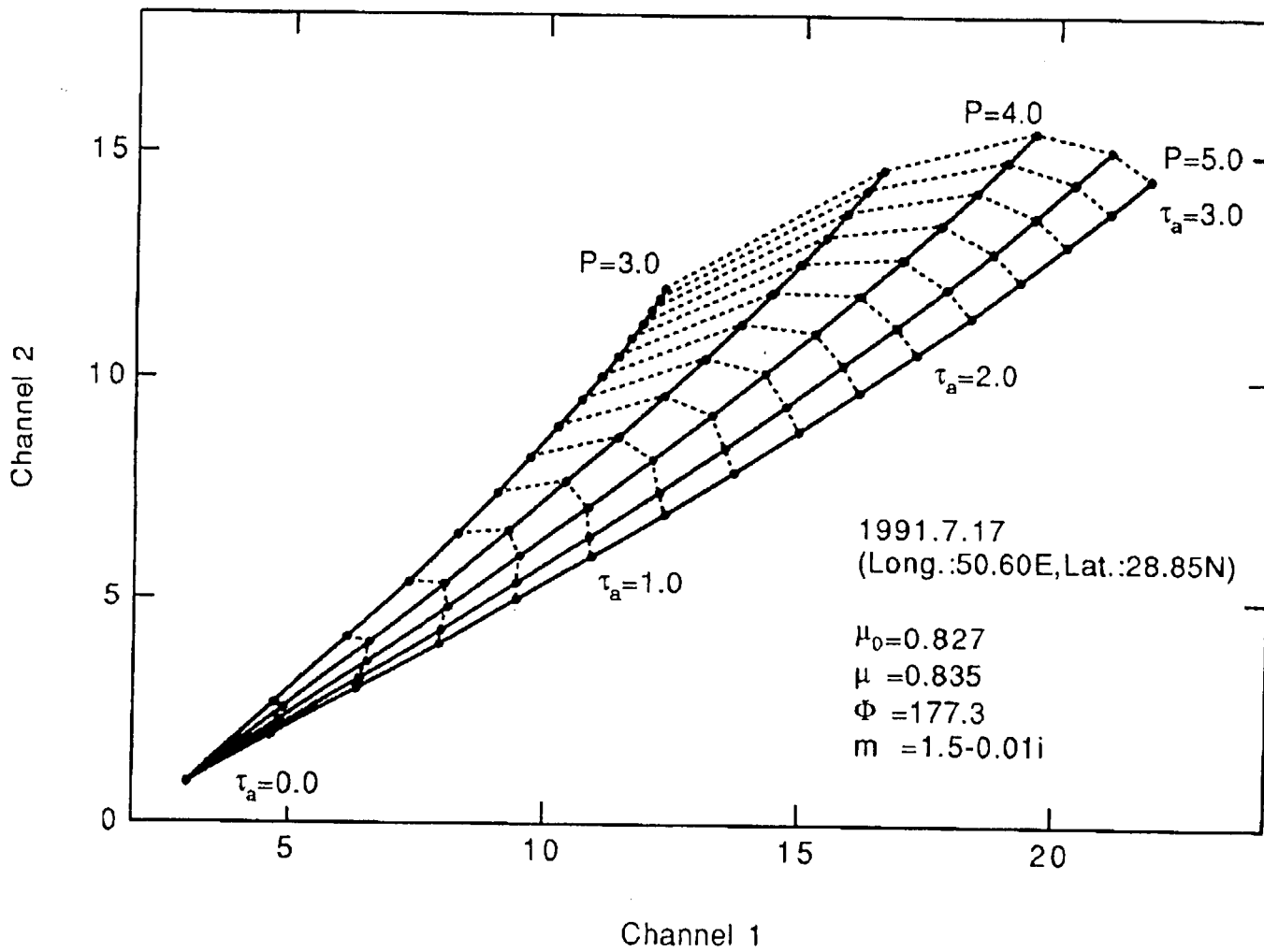


Fig.1
 Nakajima et al. (1993)

T. HAYASAKA *et al.* (1992)

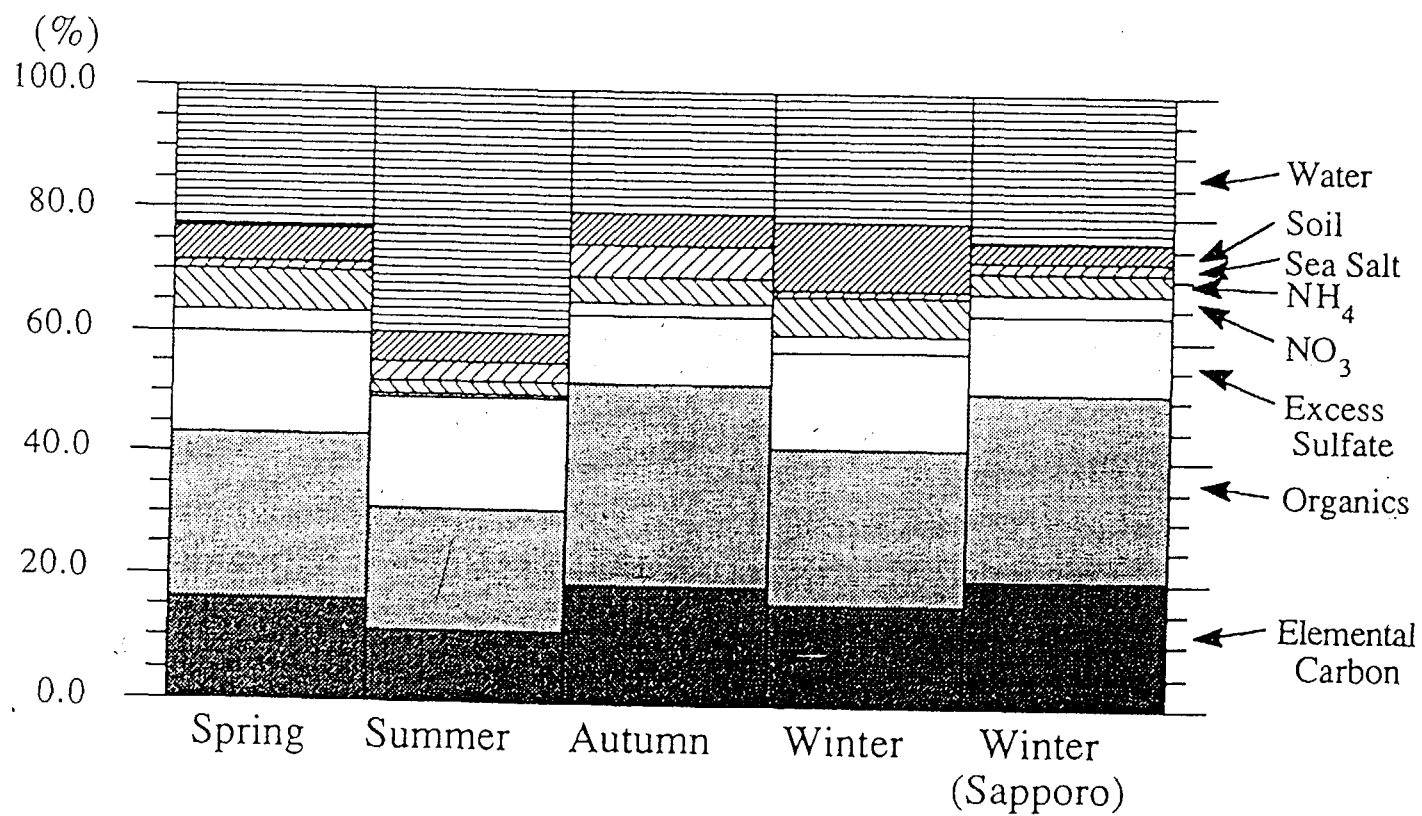
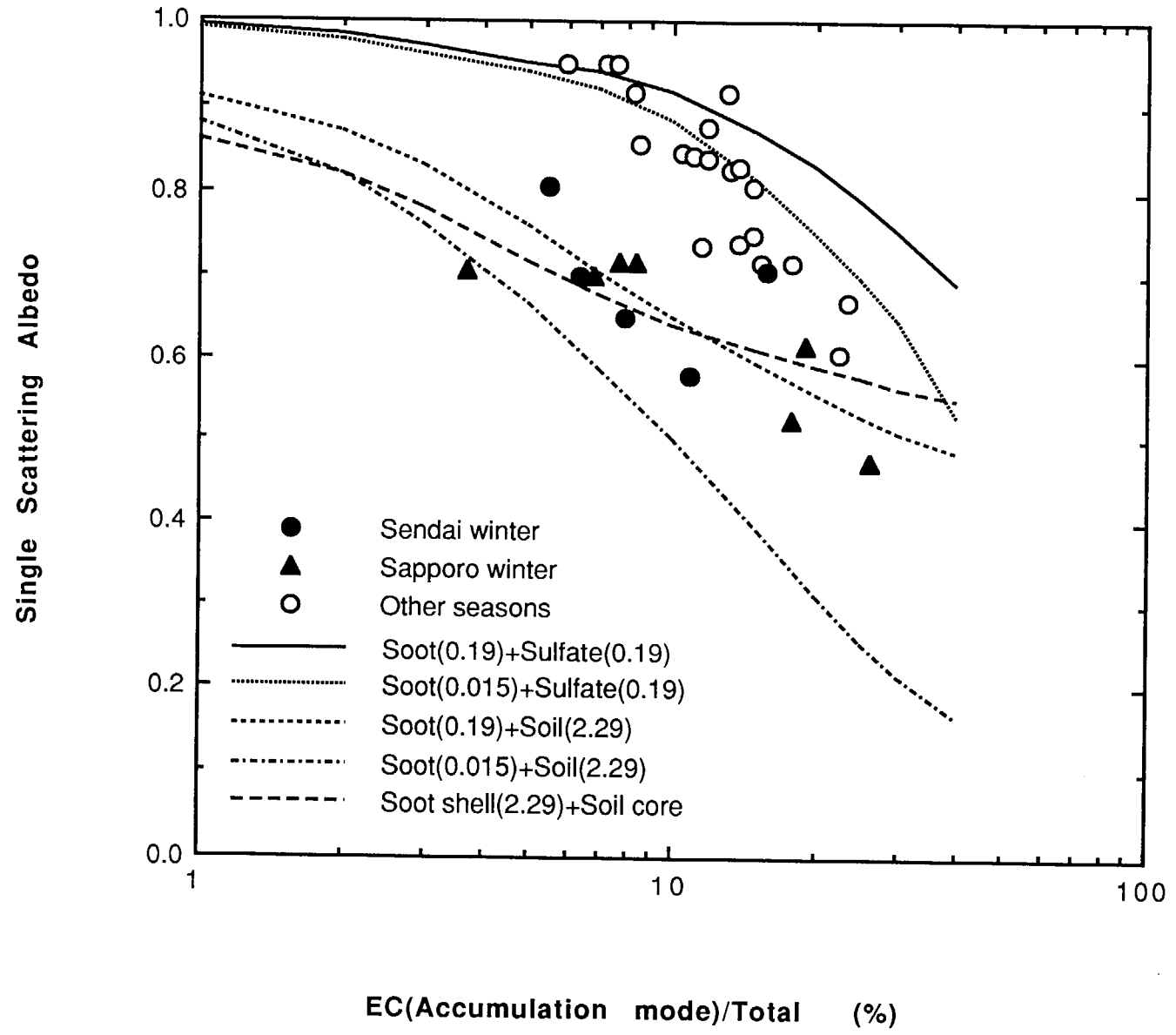


Fig. 6. Mass fraction of each chemical component in aerosols smaller than 1 μm in radius for the respective seasons.

Hayasaka et al. (1992), J. Atmos. Environ.
26A, 2055-2062



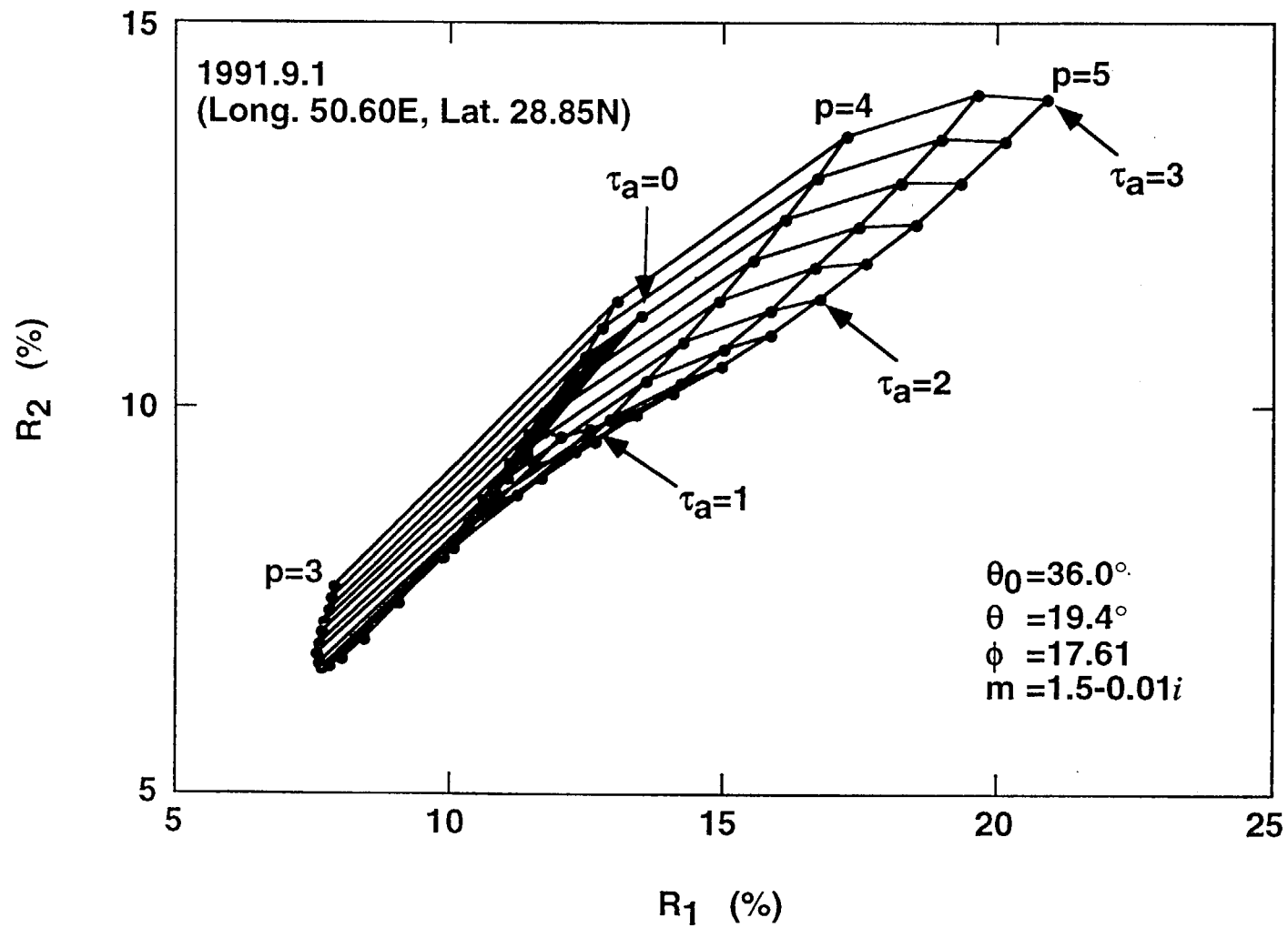


Fig. 3 Nakajima and Higurashi

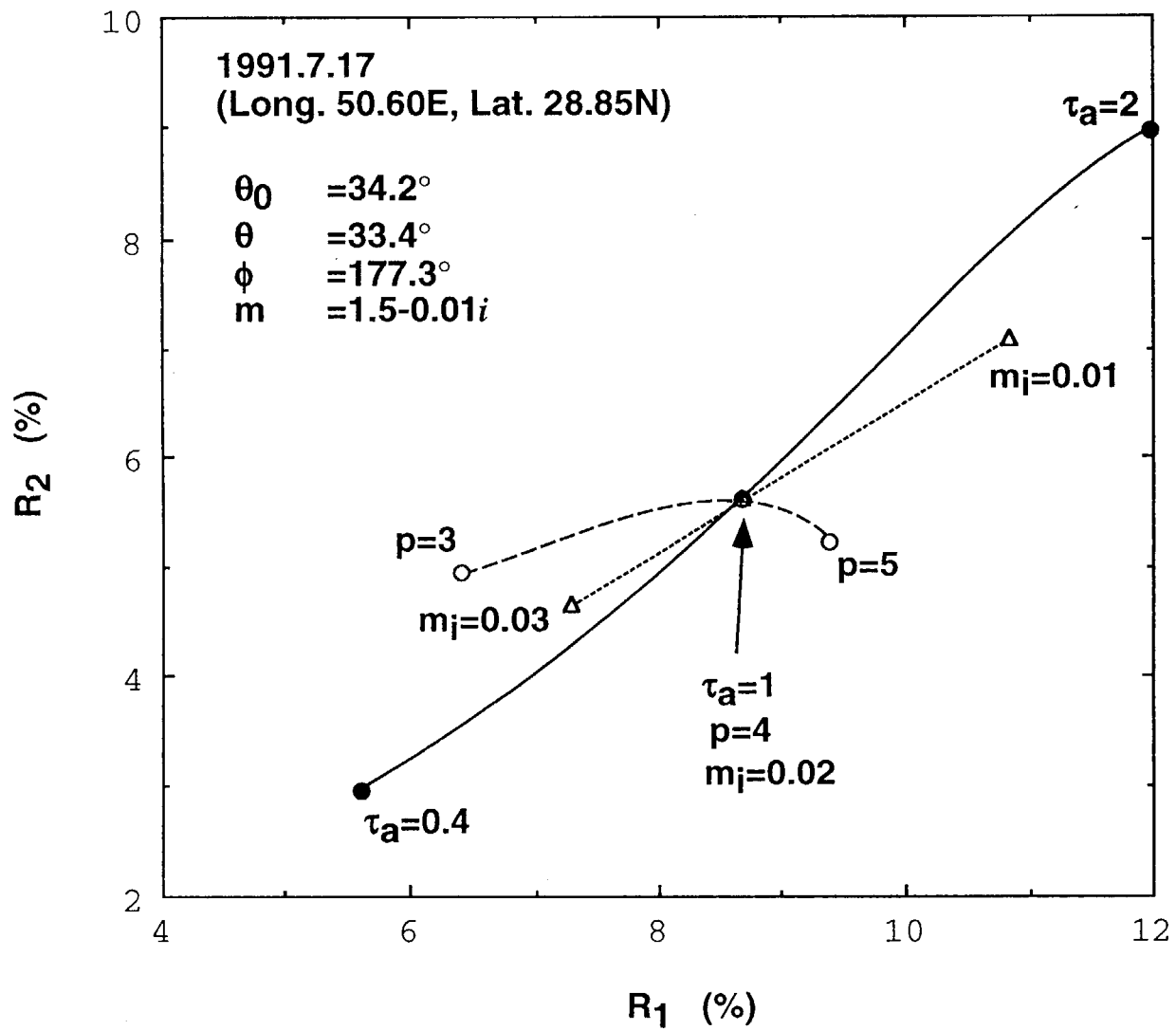


Fig. 4 Nakajima and Higurashi

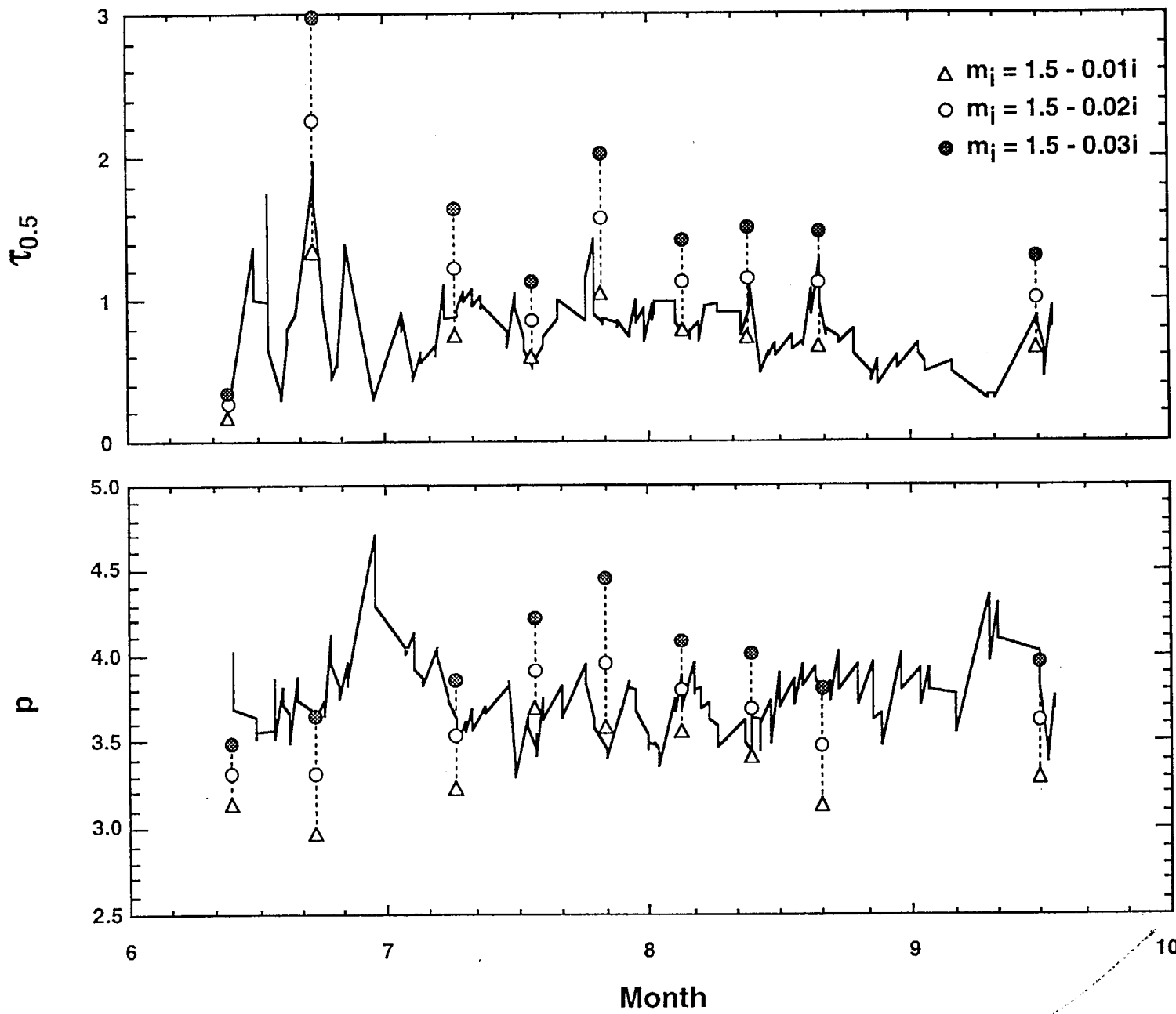


Fig. 5 Nakajima and Higurashi

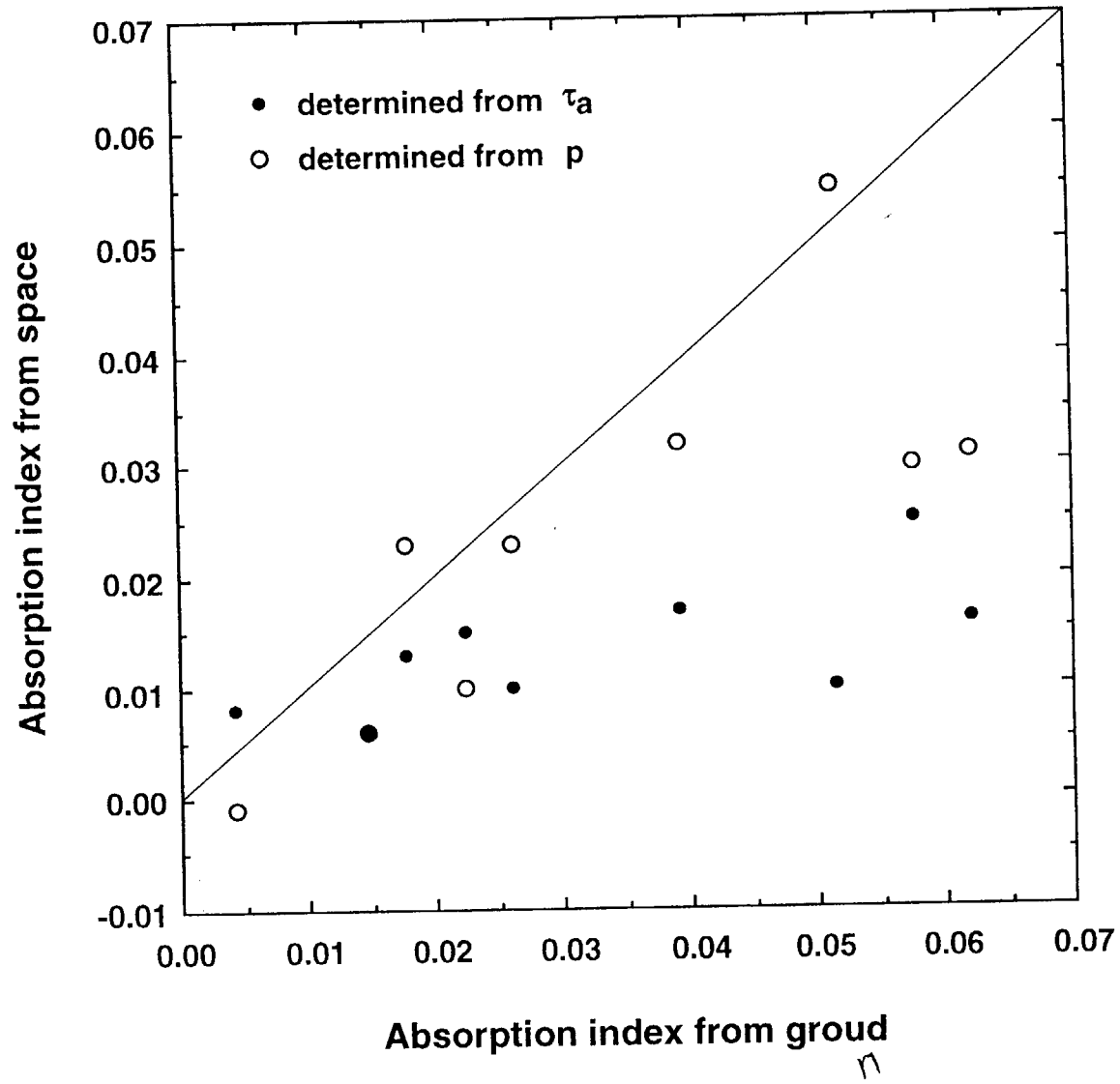


Fig. 6 Nakajima and Higurashi