

# NASA/COMMIT and EPA Mobile observatories data at Dongsha during March-May 2010



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## 1. Deployment

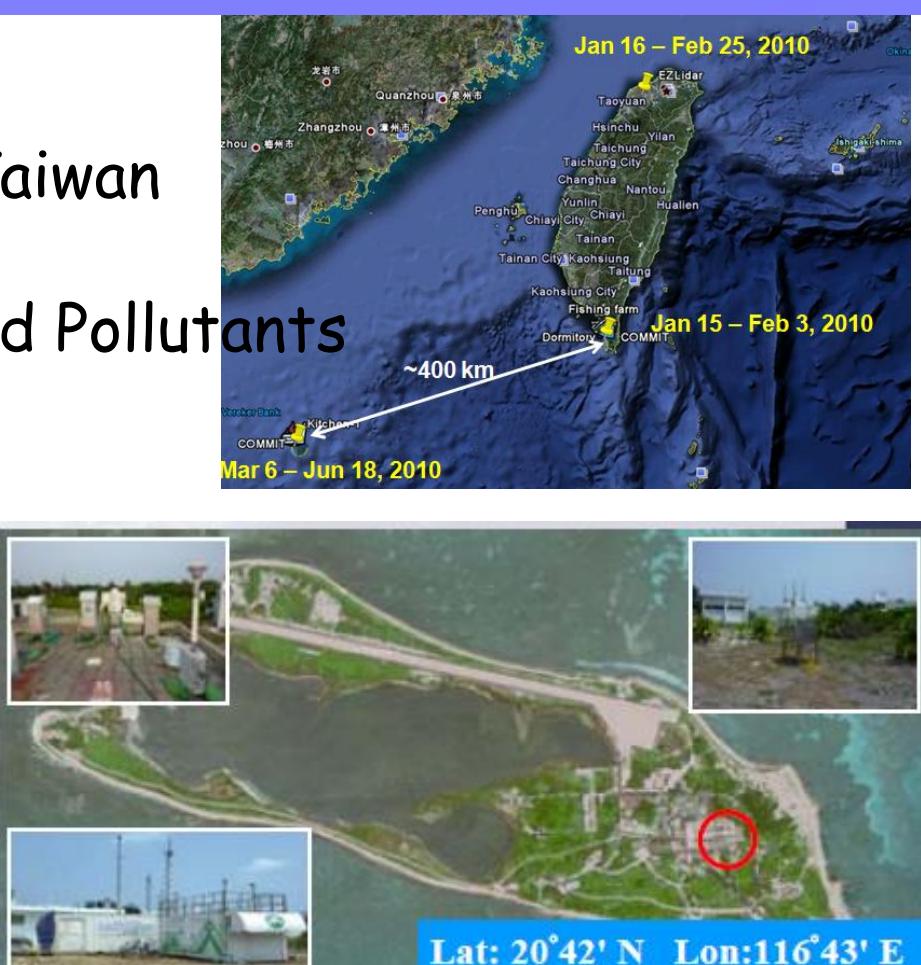
Location : Dongsha Island/Taiwan

Time : March-June, 2010

Targets: Biomass burning and Pollutants



Looking northeast



## 2. Major Instruments

COMMIT (Chemical, Optical, and Microphysical Measurements of In-situ Troposphere)

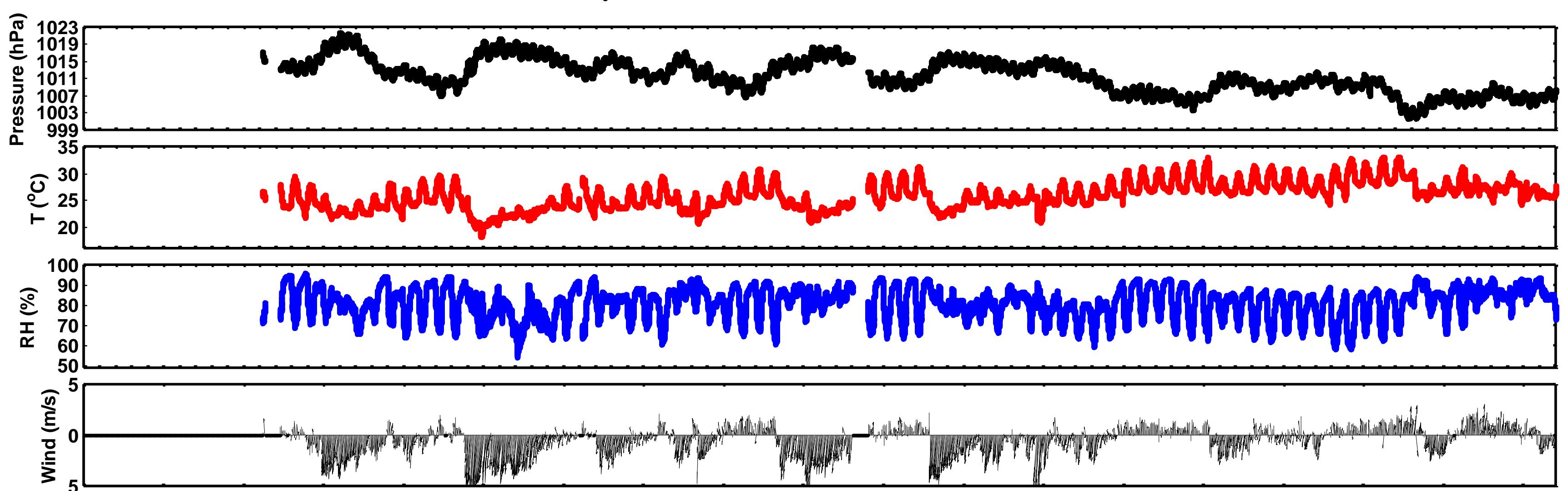
Particle Sizer (APS, SMPS)	- size distribution of aerosol particles
Particulate Monitor (TEOM)	- mass concentration
Nephelometer	- total scattering/back scattering coefficients
PSAP	- absorption coefficients at 3 wavelengths
Meteorological Sensors	- P, air/surface T, RH, wind, rain rate, visibility
Sun Photometers (Cimel)	- direct/diffuse solar radiation at 6 wavelengths
EZ-Lidar (Leosphere)	- vertical structure of aerosol, cloud height

EPA Mobile

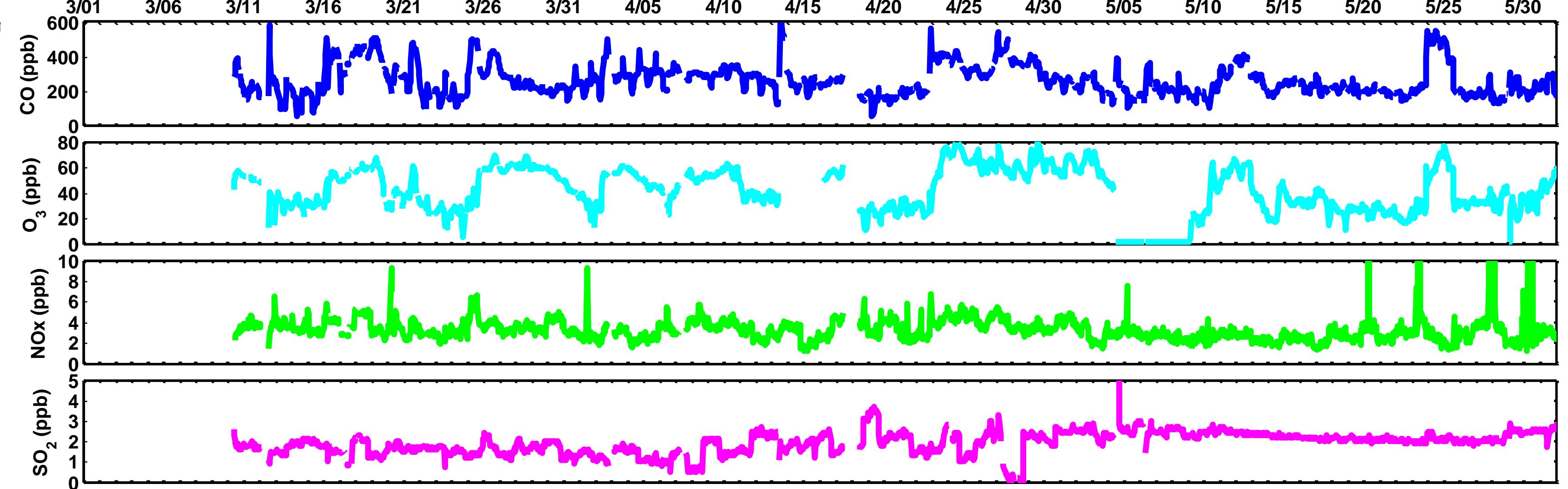
Particulate Monitor (TEOM)	- mass concentration/chemical compositions
Gas Monitors	- trace gases CO, CO <sub>2</sub> , O <sub>3</sub> , SO <sub>2</sub> , NO and NO <sub>2</sub>
Meteorological Sensors	- air/surface T, RH, wind, rain rate

## 3. Selected time series (March-May, 2010)

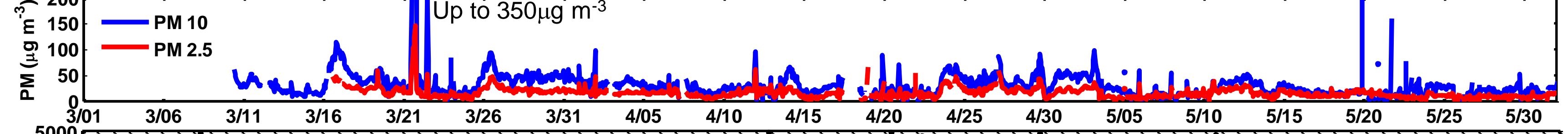
VAISALA



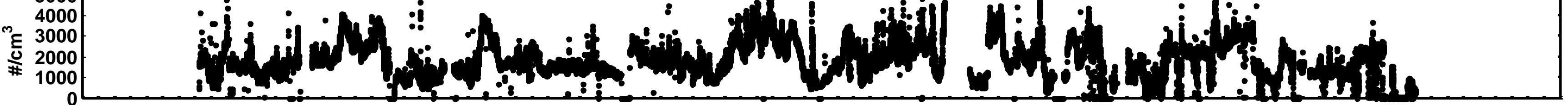
ECOTECH



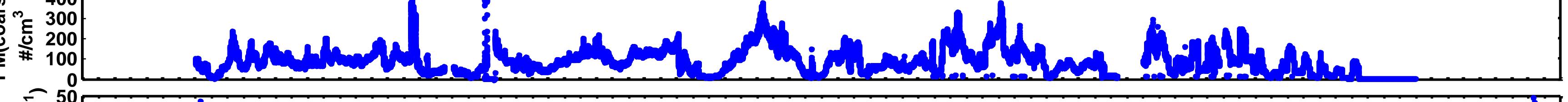
TEOM



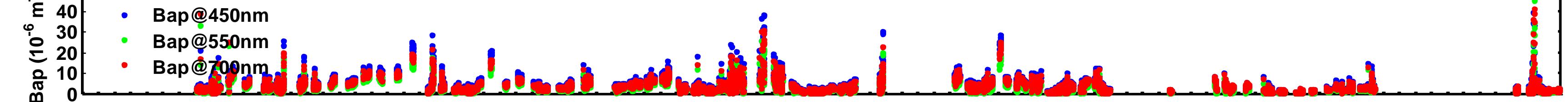
SMPS



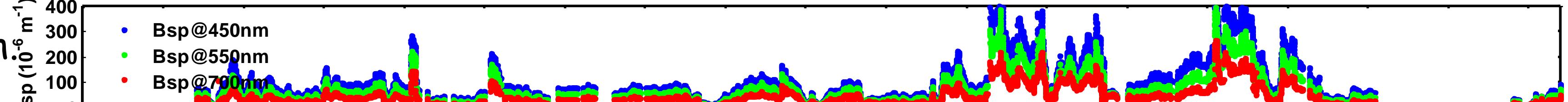
APS



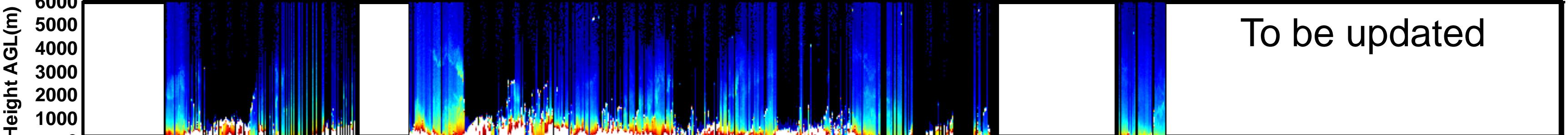
PSAP



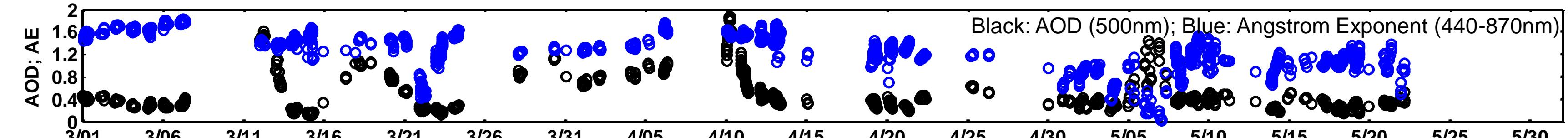
TSI Neph



EZLidar (NRB)



Cimel



(Continuous measurements will be taken until June 18, 2010)