

# CHIBA CAMPAIGN 2021

7/26 – 8/8

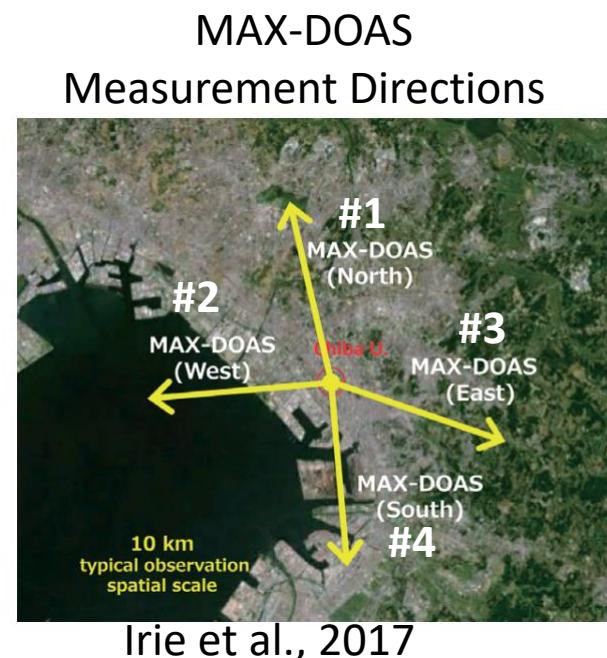


## Daily Report (2021/08/01)

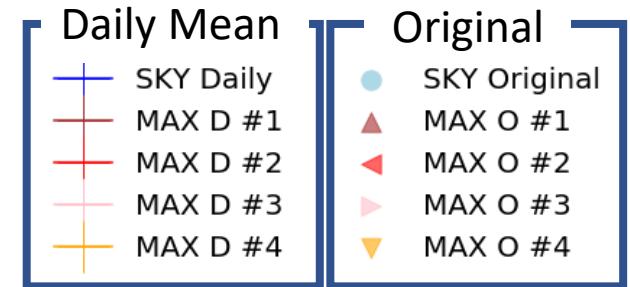
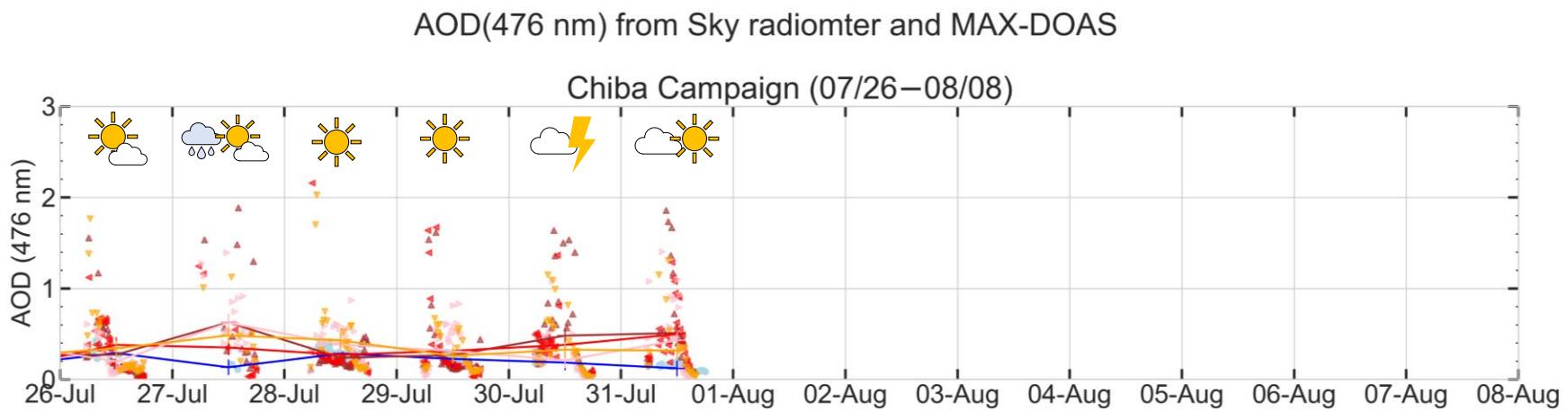
► AEROSOL analysis

AOD from Sky radiometer & MAX-DOAS

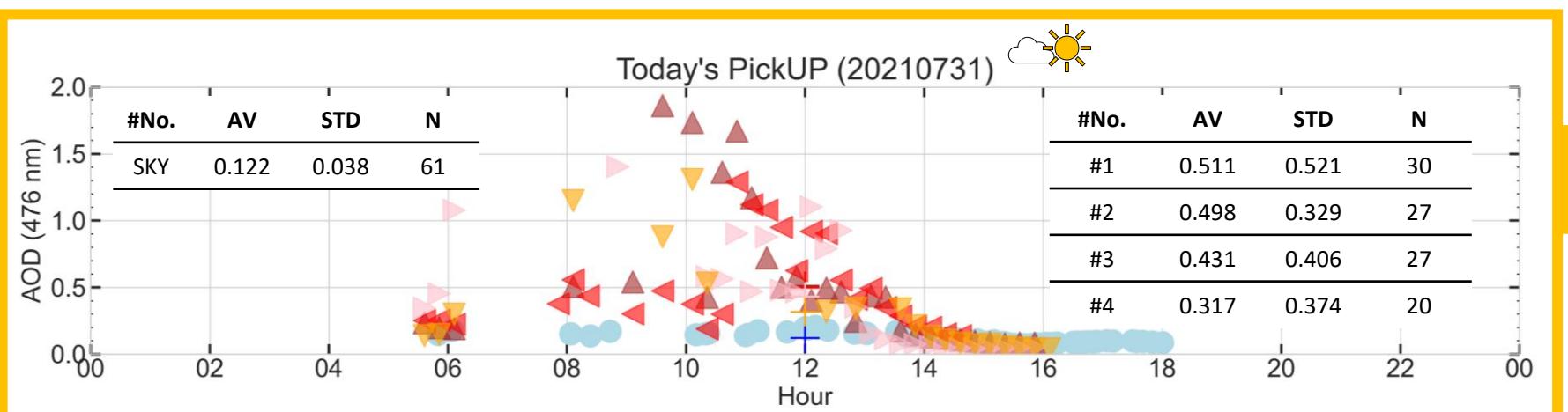
by Irie Lab. M1 Takeru Ohno



# AOD from Sky radiometer(476 nm) & MAX-DOAS(476 nm)



Today's AOD



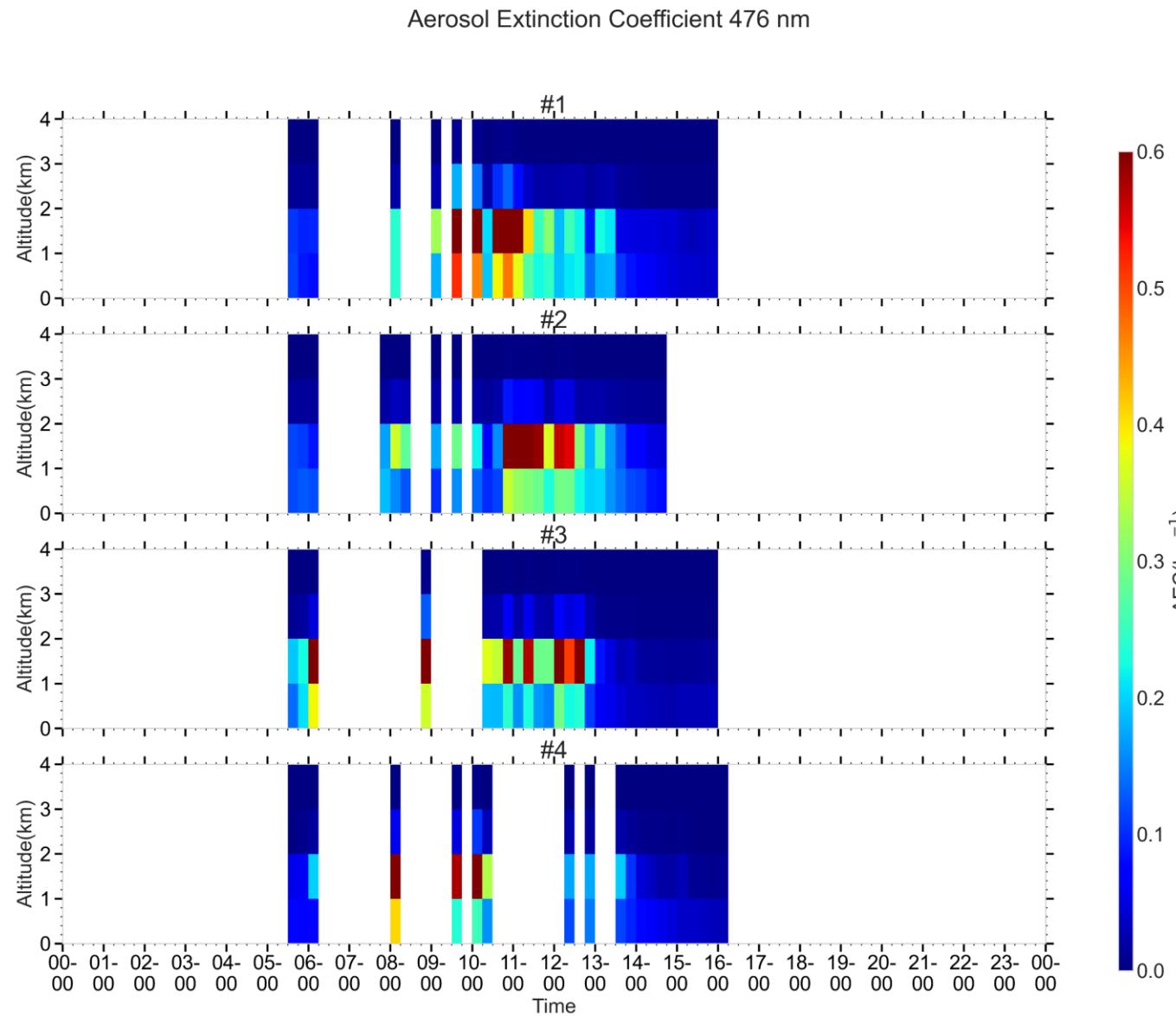
※Wavelength interpolation of Sky

radiometer AOD from 500 nm to 476 nm

$$\tau_{476} = \tau_{500} \left( \frac{476}{500} \right)^{-AE}$$



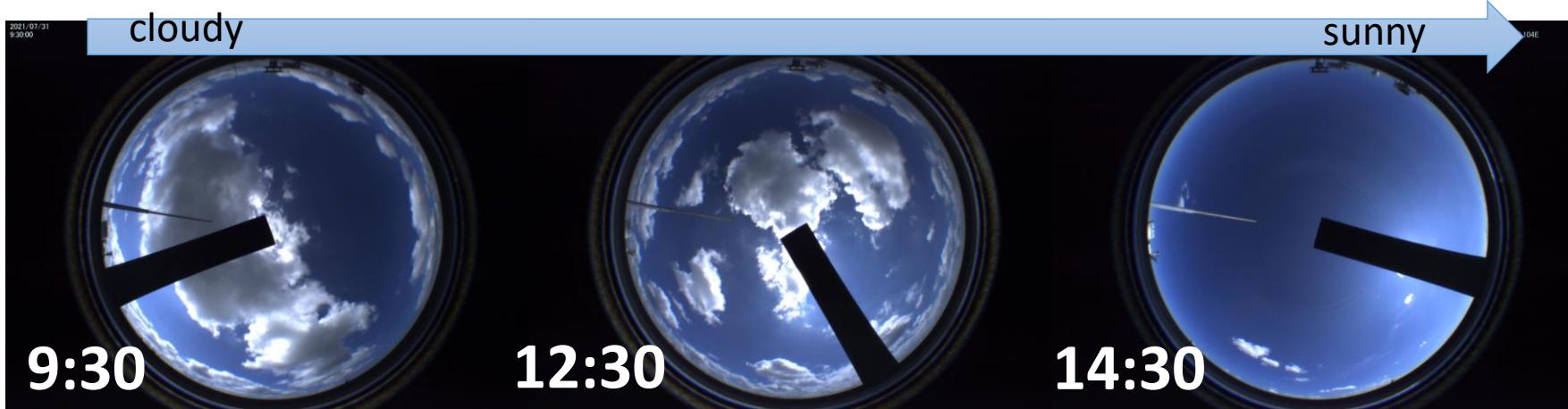
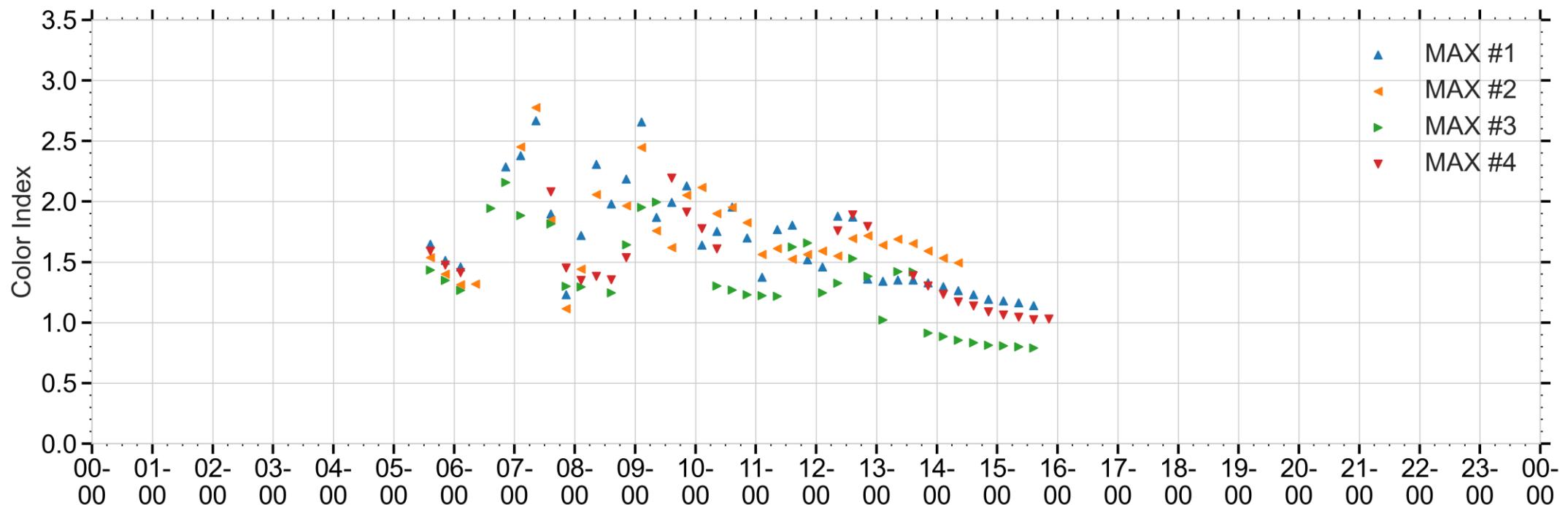
# AEC (MAX-DOAS)



**Fig. 5** Schematic illustration of observations by the North-, West-, East-, and South-viewing MAX-DOAS instruments (this set is called the 4AZ-MAXDOAS system) located at the SKYNET Chiba site (Chiba University).

Irie et al., 2017

# Color Index(MAX-DOAS)



Color Index(CI)

$$CI = \frac{I_{\text{Longwave}}}{I_{\text{shortwave}}} = \frac{I_{500}}{I_{380}}$$

Takashima et al., 2009