


CHIBA CAMPAIGN 2020



SKYNET CHIBA SITE




2020-12-04
Irie Lab. B4
Takeru Ohno



Daily Update

2020-12-04



- AEROSOLS

1.AOD (Sky radiometer & MAX-DOAS)

2.AEC (MAX-DOAS)

3.SKYVIEW

- Daily Log

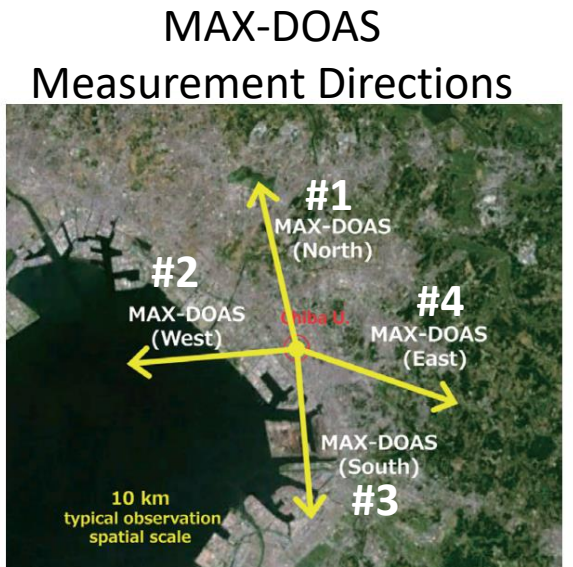
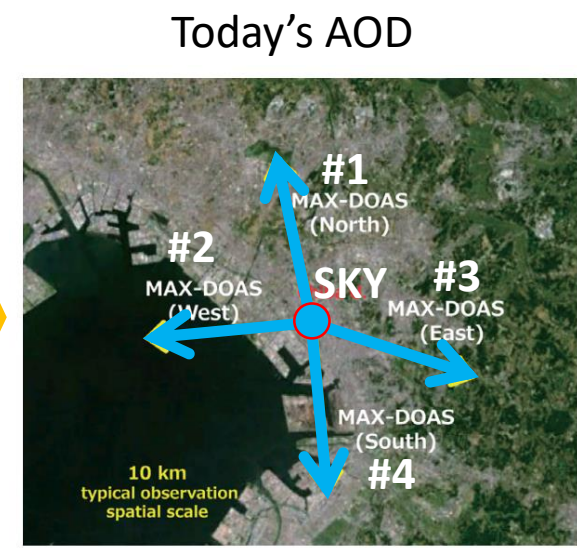
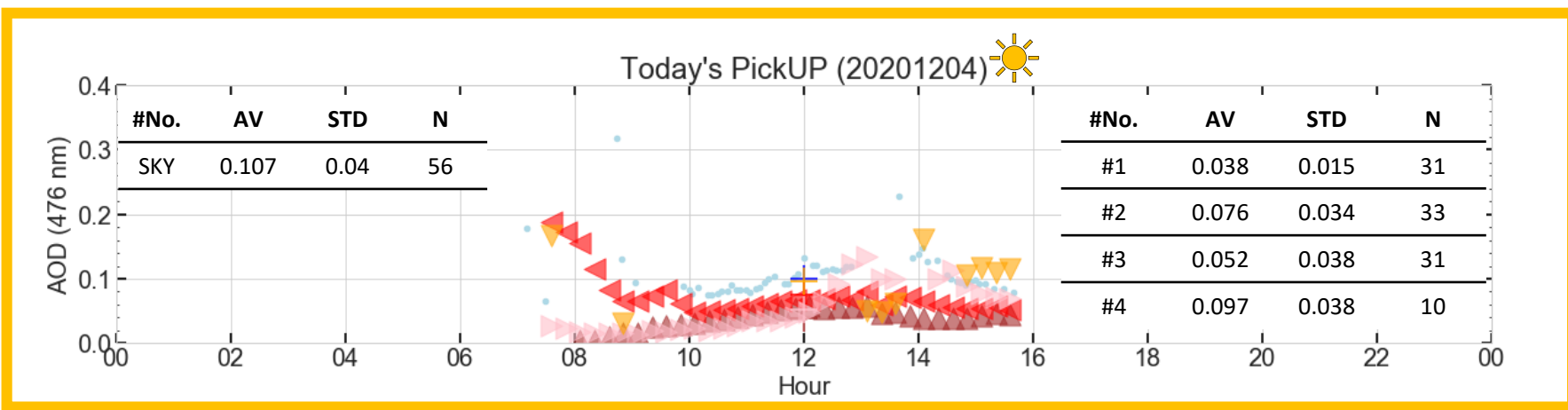
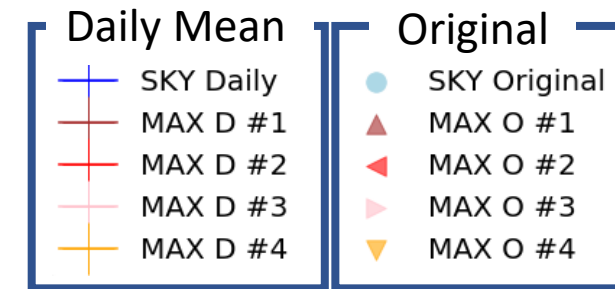
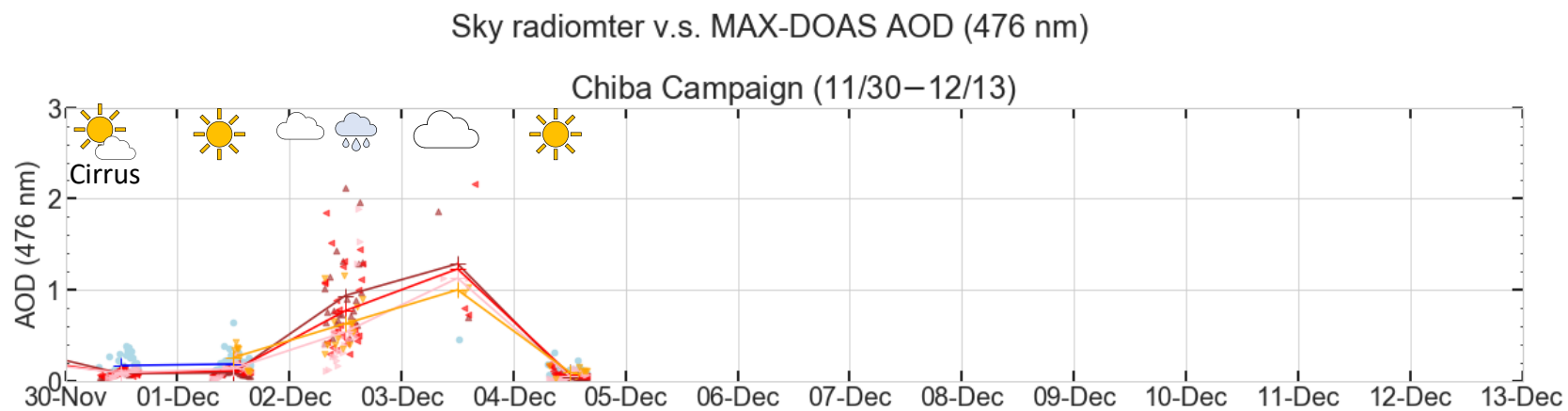


Fig. 5 Schematic illustration of observations by the North-, West-, East-, and South-viewing MAX-DOAS instruments (this set is called the 4AZ-MAXDOAS system) located at the SKYNET Chiba site (Chiba University).

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



(Fig. Irie et al., 2017)

AEC (MAX-DOAS)

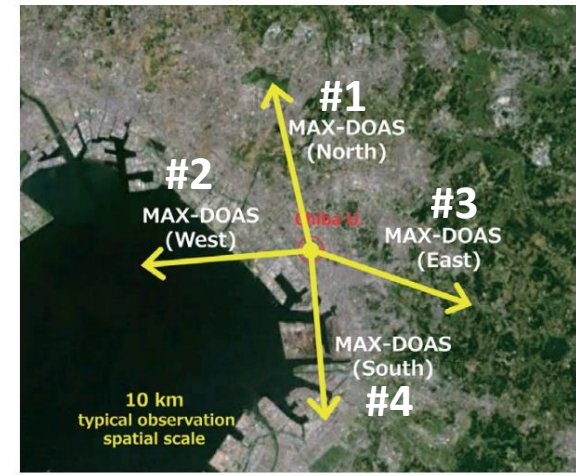
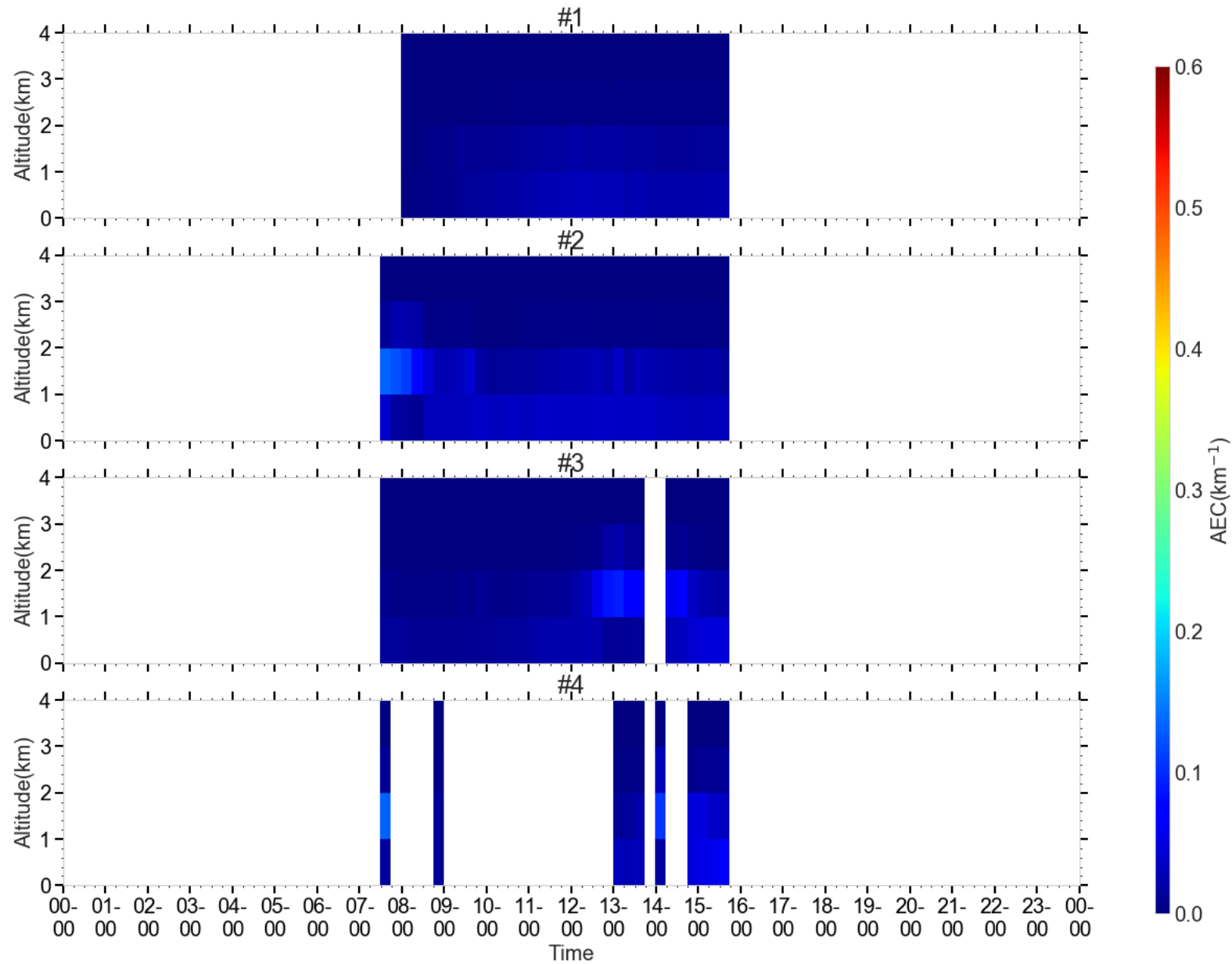







Fig. 5 Schematic illustration of observations by the North-, West-, East-, and South-viewing MAX-DOAS instruments (this set is called the 4AZ-MAXDOAS system) located at the SKYNET Chiba site (Chiba University).

Irie et al., 2017

SKYVIEW



Daily Log

	Weather	Findings & Insights
✓ 11-30(Mon):	 Sunny, Cirrus(巻雲 <small>けんうん</small>)	Possibility: Cirrus affected Sky radiometer AOD
✓ 12-01(Tue):	 Sunny	
✓ 12-02(Wed):	 Cloudy, then Rainy	MAX-DOAS AOD seems to be too high because of the weather
✓ 12-03(Thu):	 Cloudy	The same as 12-02, Work-around observation(CH ₄ , CO ₂ , H ₂ O)
✓ 12-04(Fri):	 Sunny(10:00~Low cloudage)	High AOD with #2 & sky radiometer before 10:00
• 12-05(Sat):		
• 12-06(Sun):		
• 12-07(Mon):		
• 12-08(Tue):		
• 12-09(Wed):		
• 12-10(Thu):		
• 12-11(Fri):		
• 12-12(Sat):		
• 12-13(Sun):		

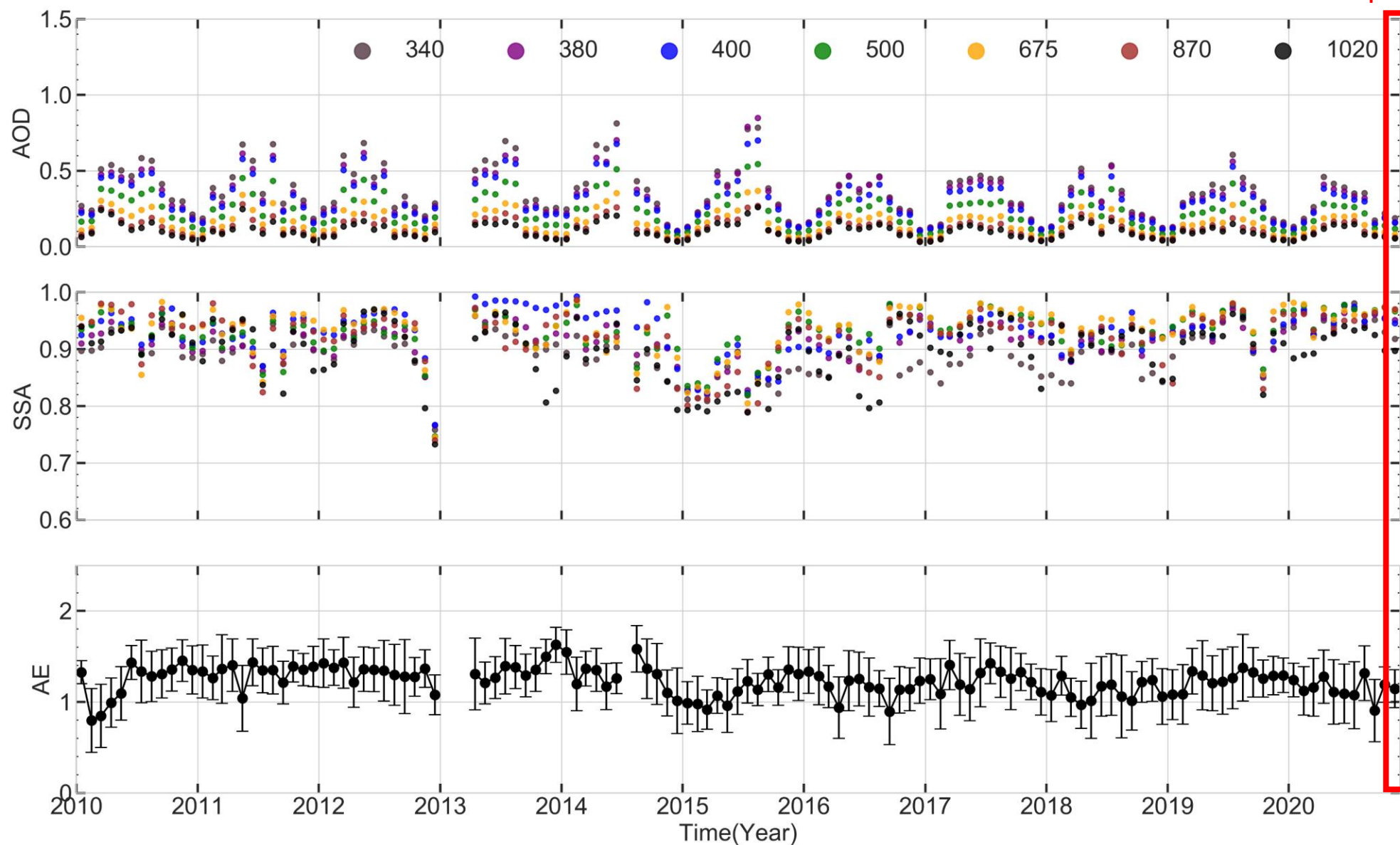


Appendix

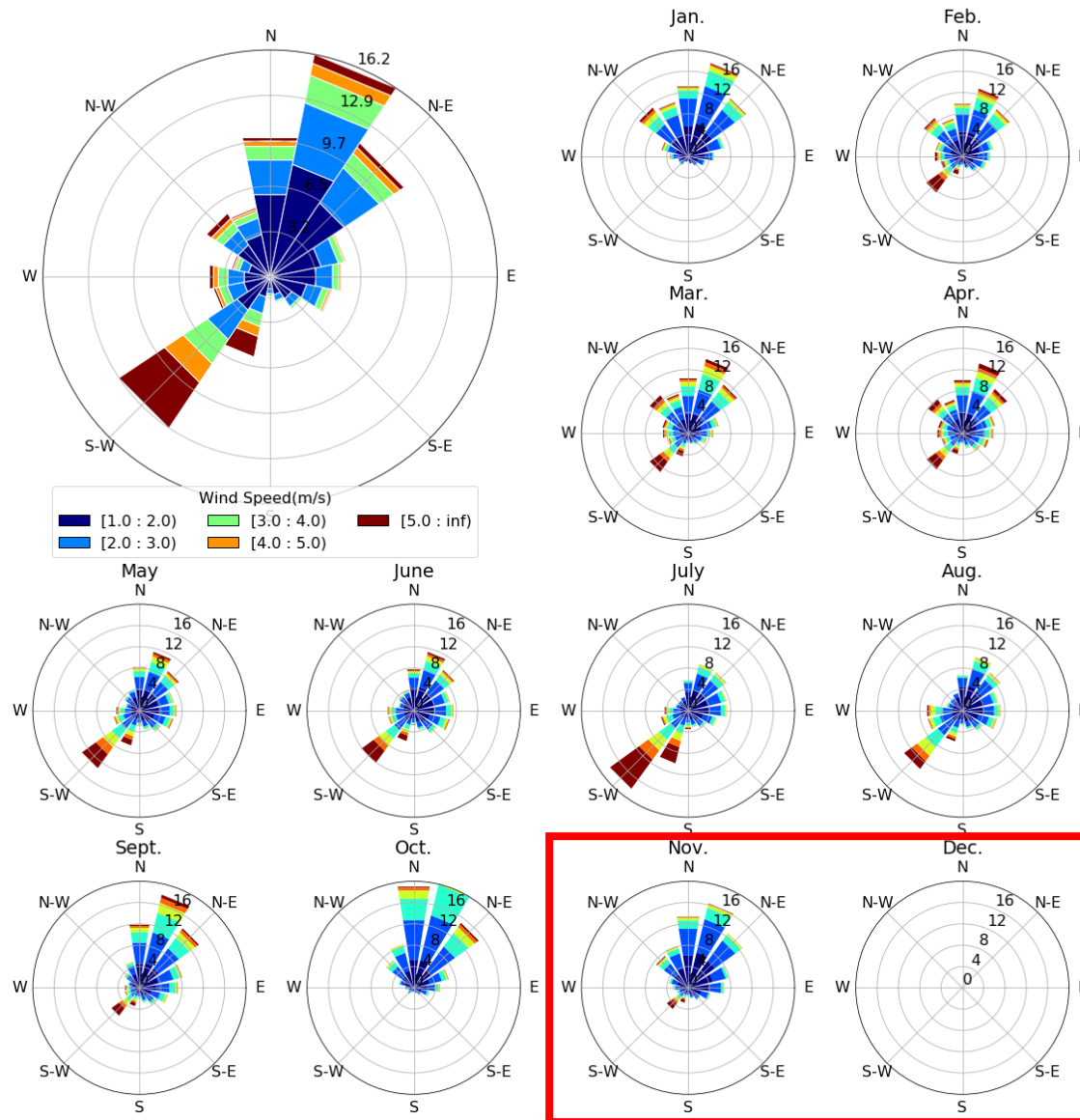


AOD, SSA, AE (Monthly, 2010—2020) (Sky radiometer)

Chiba Campaign 2020



Wind Direction and Wind Speed(2020)



Chiba Campaign 2020

Cirrus(巻雲_{けんうん})

- 上層雲 5～13 km
- 氷の雲で形成される
- 光学的厚さが小さい



Reference

- 入江仁士ら:[ひまわり8号エアロゾルプロダクトのエネルギー管理システムにおける重要性](#). 2017

Google Earth

<https://earth.google.com/web/>