Satellite Applications to Aviation Weather

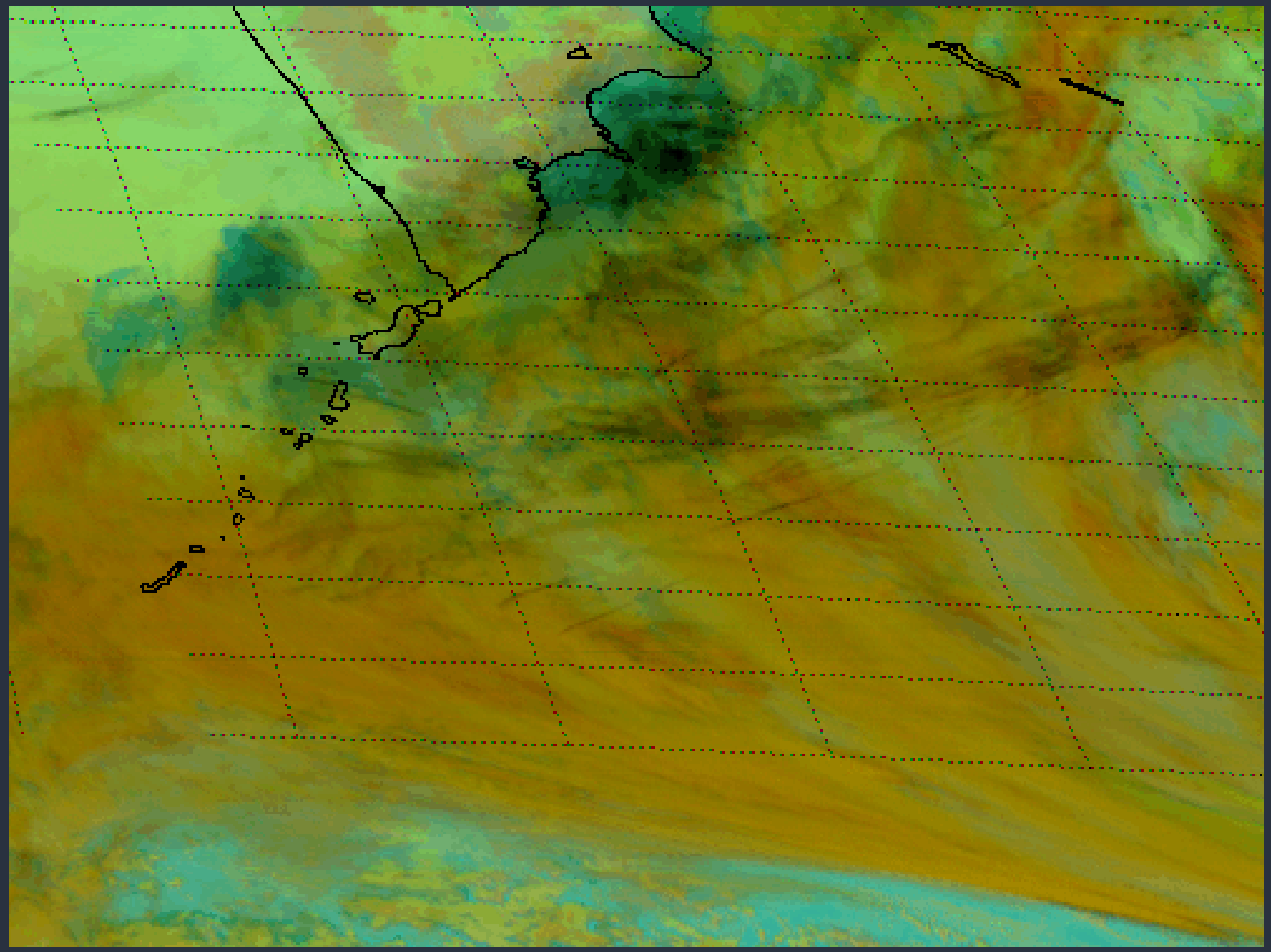
Dan Lindsey
NOAA/NESDIS GOES-R Program Scientist

Contributions from Tony Wimmers (CIMSS) and Yoo-Jeong Noh (CIRA)

NOAA
National Environmental Satellite, Data, and Information Service

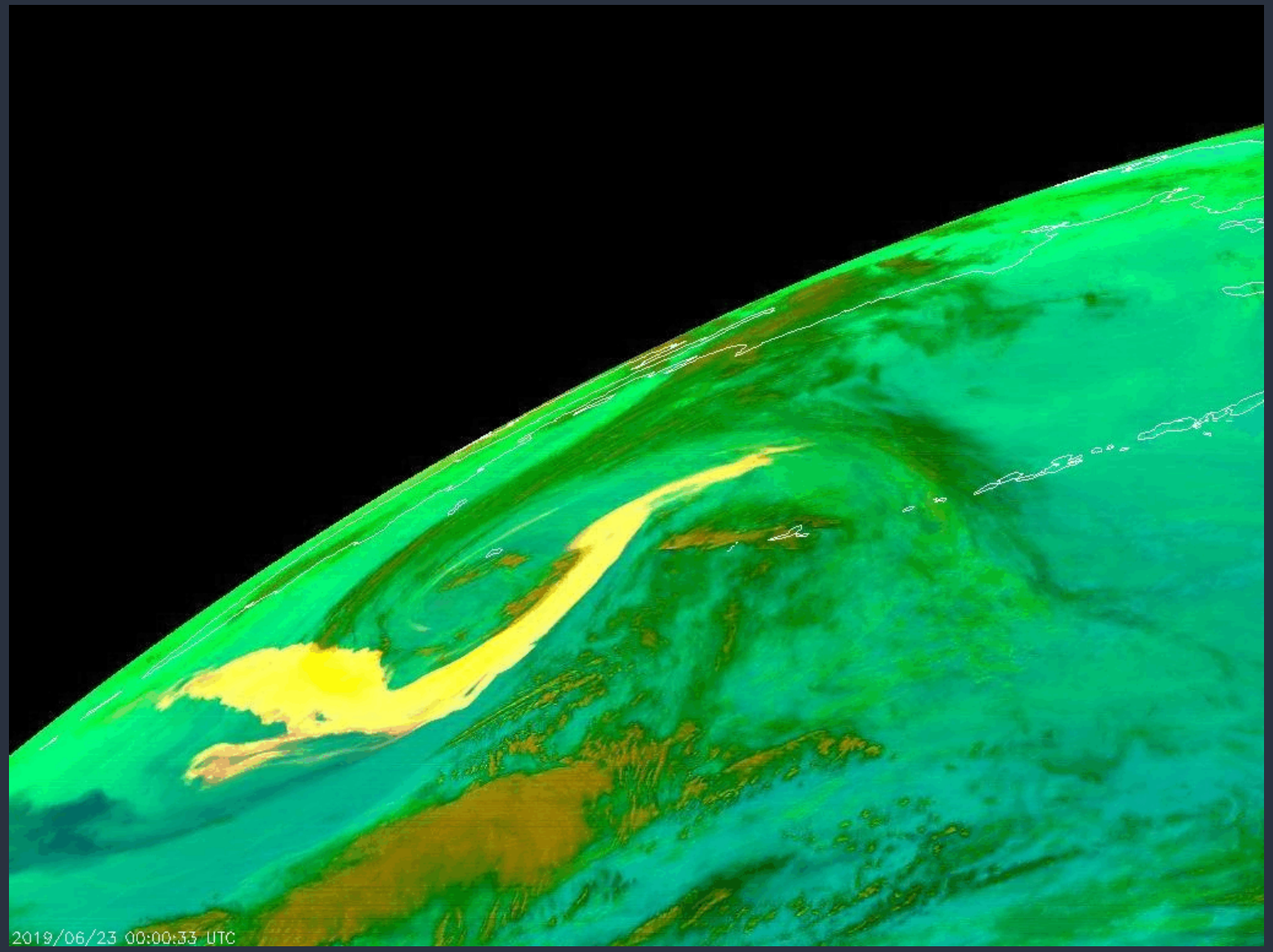
6 October 2021

Eruption of Kambalny – March 2017 – Kamchatka – Himawari-8

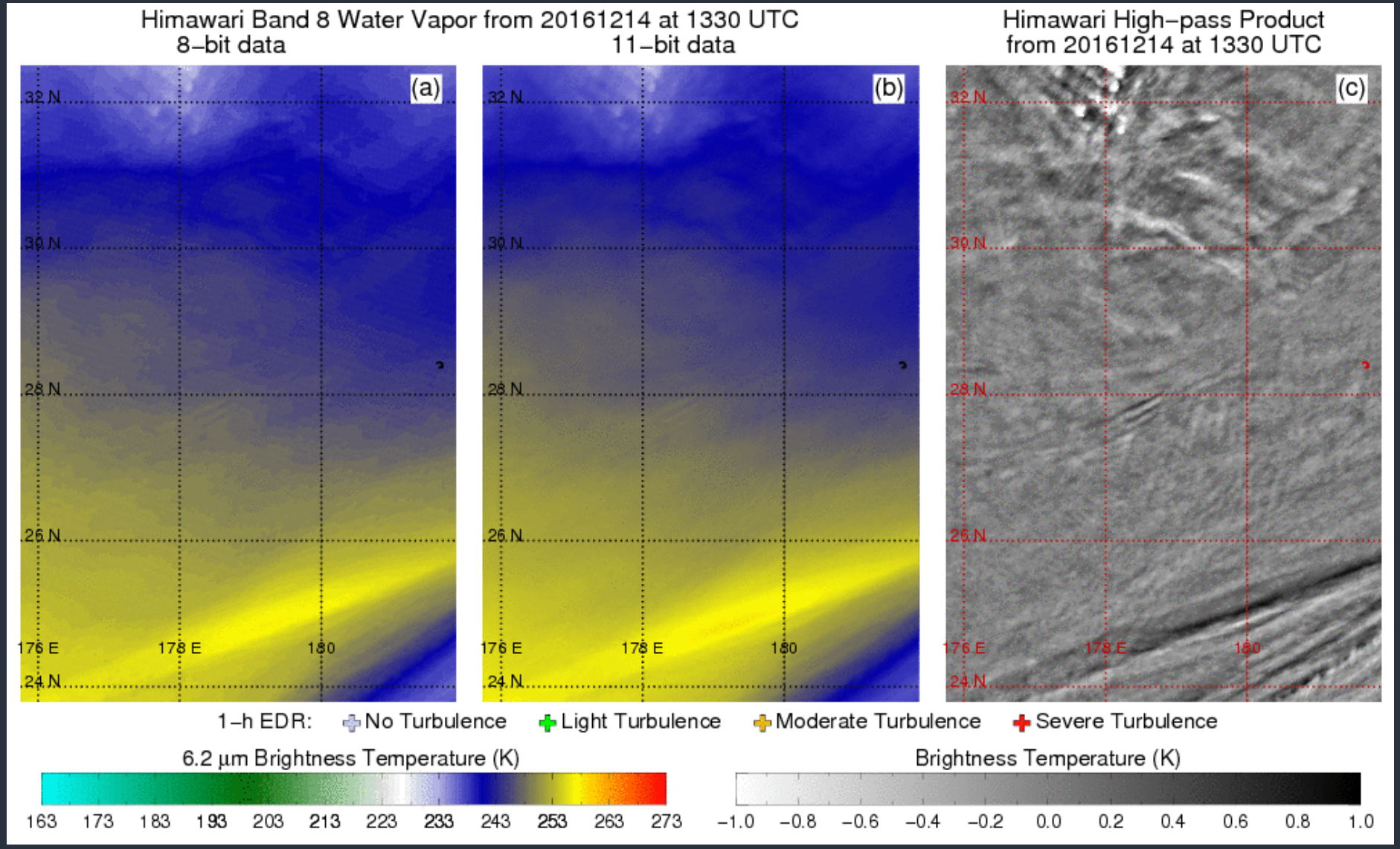


Eruption of Raikoke – June 2019 – NW Pacific – Himawari-8

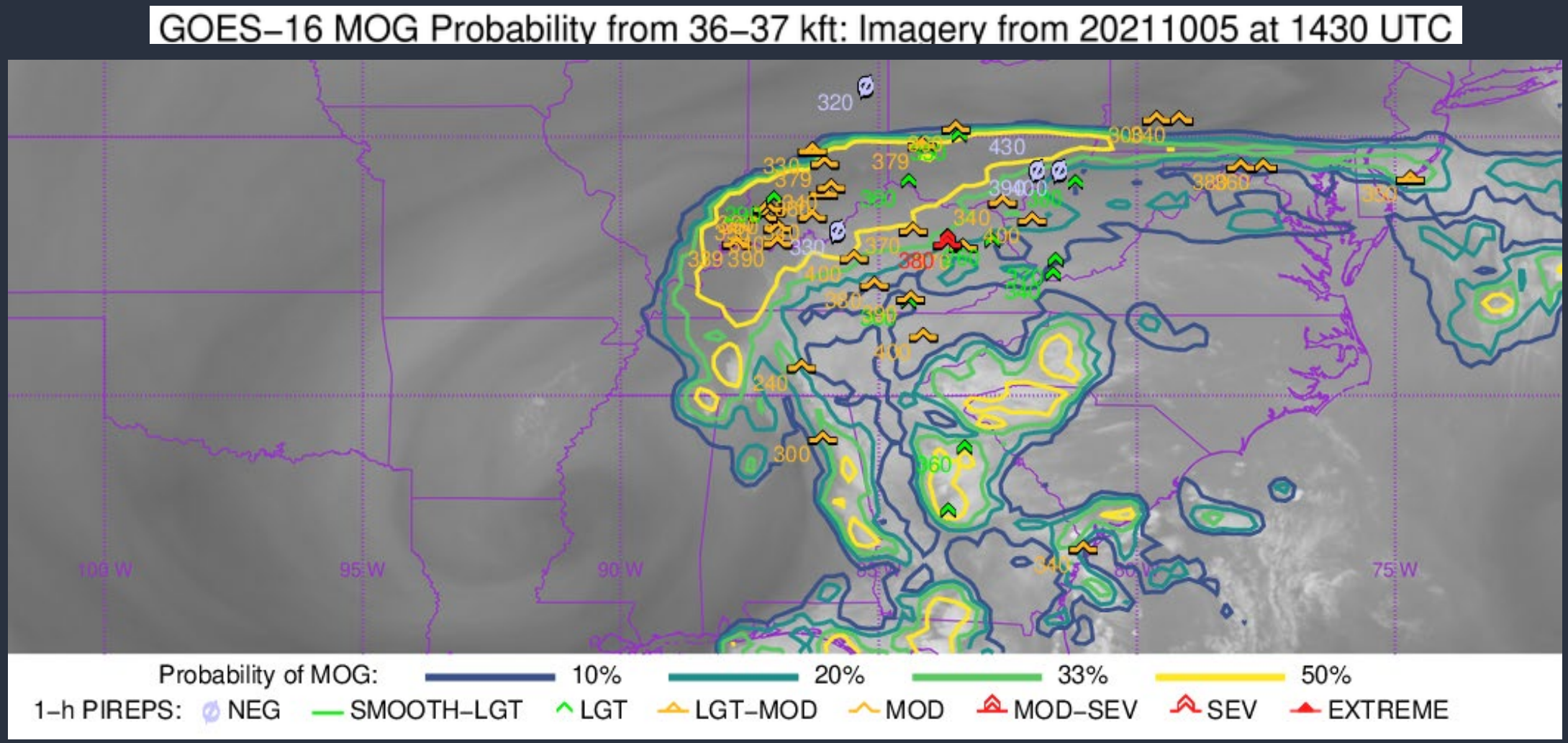
Raikoke Plume over the Aleutians – June 2019 - GOES-17 SO2 RGB



Automated turbulence detection – Tony Wimmers (CIMSS)

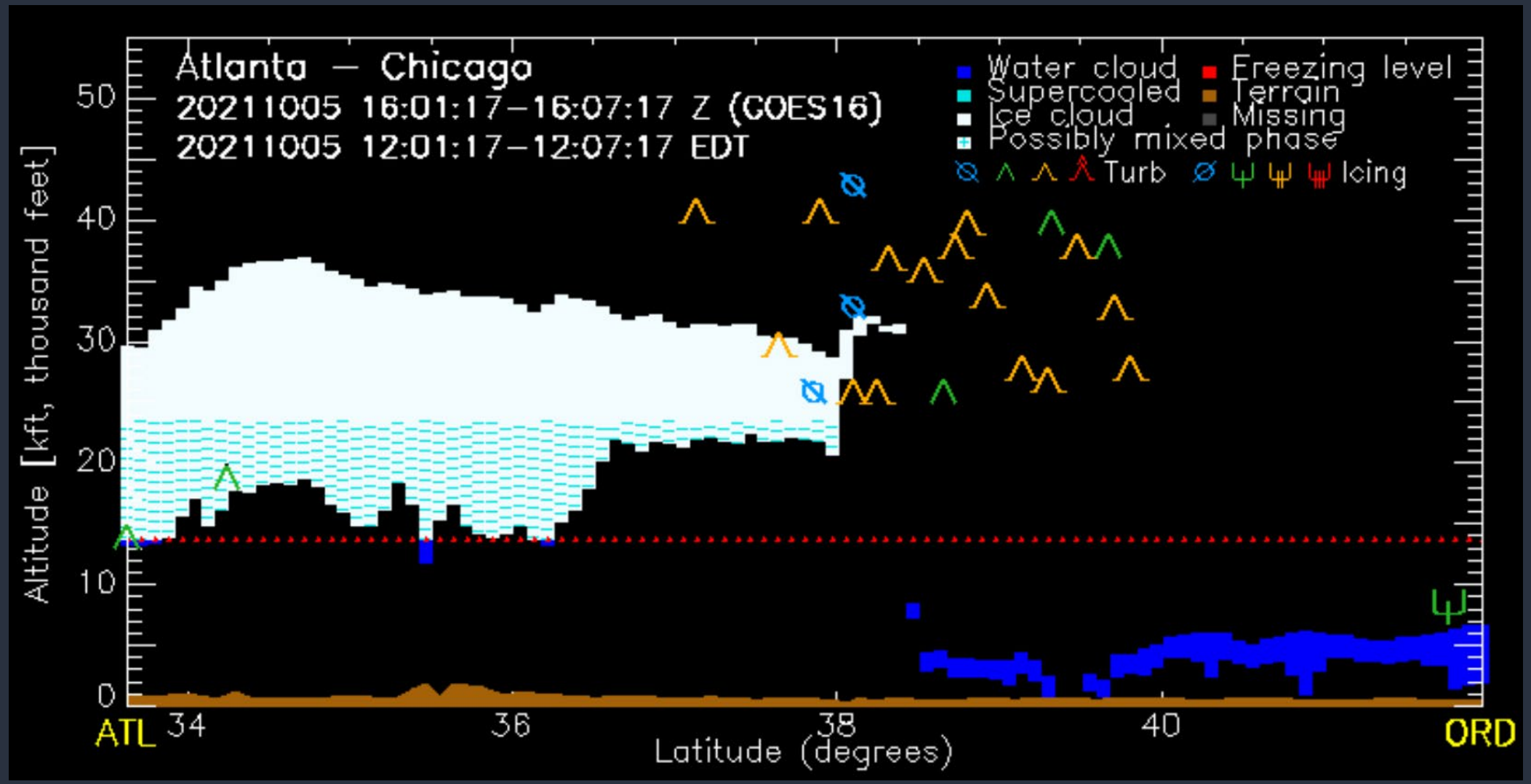


Automated turbulence detection – Tony Wimmers (CIMSS)



https://cimss.ssec.wisc.edu/turbulence/

Cloud Vertical Cross Sections – Yoo-Jeong Noh (CIRA)



https://rammb.cira.colostate.edu/ramsdis/online/npp_viirs_conus_aviation.asp

Resources on the Web

- GOES-16/17 ABI imagery and products: https://rammb-slider.cira.colostate.edu/
- Another imagery viewer that may load more quickly: https://www.star.nesdis.noaa.gov/goes/index.php
- VOLCAT (Volcano Monitoring) from CIMSS: https://volcano.ssec.wisc.edu/
- CIMSS Automated Turbulence detection page: https://cimss.ssec.wisc.edu/turbulence/
- CIRA Cloud Vertical Cross Section page: https://rammb.cira.colostate.edu/ramsdis/online/npp_viirs_conus_aviation.asp

Any feedback (positive or negative) on these products is very much appreciated!

Dan.Lindsey@noaa.gov