

Verification of the Simulated METImage Data over Polar Region

Intern: Selena Qiao, Supervisors: Dr. Wenhui Wang and Dr. Xi Shao

- ➤ METImage is EUMETSAT's next generation polar orbiting multi-spectral radiometer on the METOP-SG satellite, planned to be launched in 2022/2023.
- Previously, a CRTM-based module was developed to simulate METImage polar overpass using Terra MODIS and ECMWF reanalysis data as inputs.
- In this study, multiple polar granules over consecutive orbits were simulated to support polar wind product development.

https://ncc.nesdis.noaa.gov/MetOpSG/index.php

- > The simulated METImage solar and thermal bands granules were verified using a IDL based tool.
 - The solar/thermal bands radiance, reflectance, brightness temperature, and geolocation data are in good quality.

• The 3 granules from consecutive orbits have sufficient overlapped geolocations, and the bad VII_37 data will be used for testing the NOAA polar wind algorithm.

