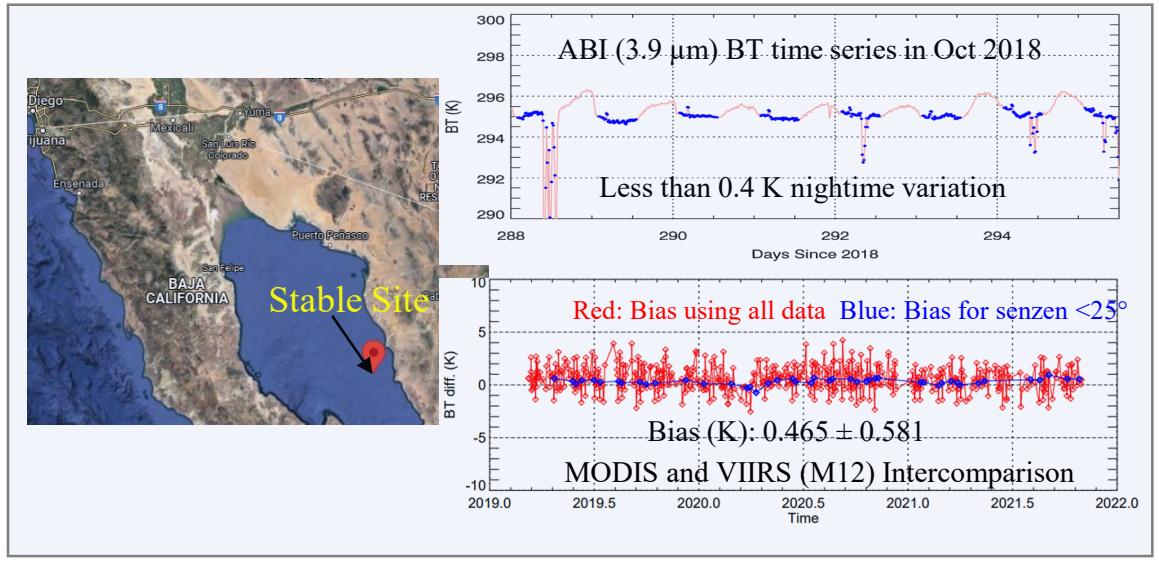
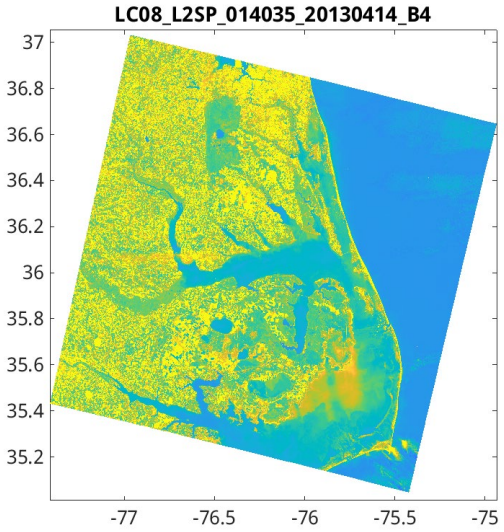
Support:

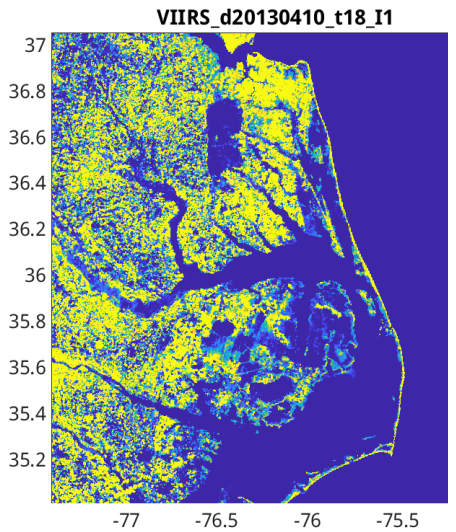
1. Identifying Stable Ocean Site for TEB Intercomparison/Validation
2. Similarity Index using AI for Geolocation Validation

- Supported identifying Stable Ocean Site *(30N/113W) using* GOES-16 ABI channel 7 (3.9 µm) nighttime observations: Inter-calibrating between N20 VIIRS and TERRA MODIS in preparation for METImage postlaunch cal/val support
- GOES-16 ABI channel 7 (3.9 µm) nighttime observations used to identify a thermally stable ocean site over Gulf of California (30N/113W)
- Code the Similarity index detection using Tensorflow MobileNet python code with DNB images.
- Testing reading LandSAT GeoTIFF images in python.
- Using LandSAT (Band 4) and VIIRS images (I1) to generate similarity index.
- VIIRS Clear sky scenes shows high SI, cloudy scene shows lower SI using LandSAT as reference.
- The SI index will be used to screen out cloudy scenes of VIIRS for geolocation comparison.

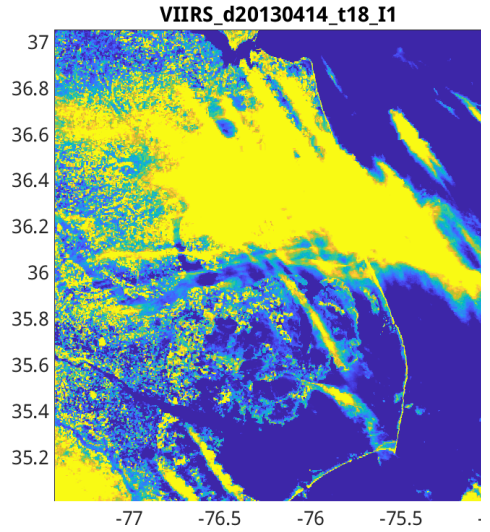




LandSAT as Reference



Clear Sky SI: 0.71



Cloudy Sky SI: 0.57