



557th Weather Wing

Satellite Data



■ **Data Coverage Challenges & Mitigation**

- MET-8 (Indian Ocean area) is one deep
- Limited coverage and reduced refresh rate outside of GEO coverage
- Increased coordination among agencies would better equip OPCs to leverage and exploit satellite data
- Many conventional satellites do not include space wx sensors; should they?

■ **Data Processing and Assimilation Challenges**

- Missing or incorrect metadata (e.g., MET-8 data identified as MET-7 in WMO Information System portal documentation)
- Currently processing MET-9/10/11 data through DOMSAT/Kencast system--modifying ingest S/W to work w/ PDA; PDA latency an issue (vs DOMSAT)

■ **Other Challenges**

- Updating S/W and databases frequently and robustly enough to ingest and use additional new data sources
- Having enough capacity to process and store GOES-17 and all next generation satellite data due to file size and bandwidth limitations
- Consideration of a “shared” standardized data set for verification and a “shared processing algorithm library”