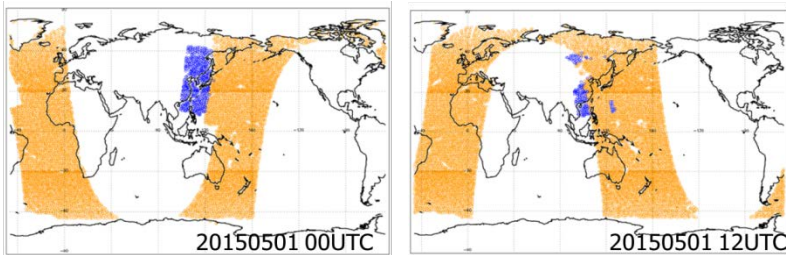


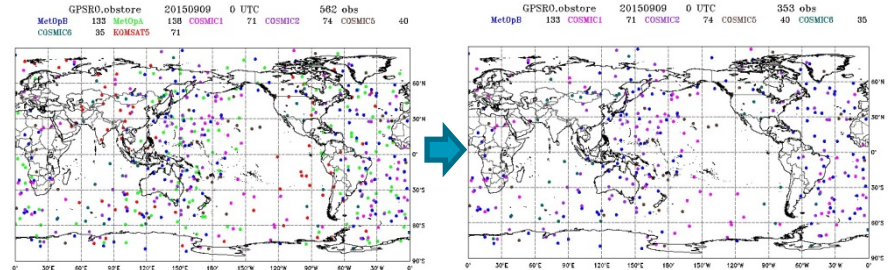
Status and Plans for Satellite Assimilation at KMA

✓ Several upgrades in KMA Global Data Assimilation and Prediction System

- Assimilation of direct readout IASI data & MetOp-A/B RO data from June 2015

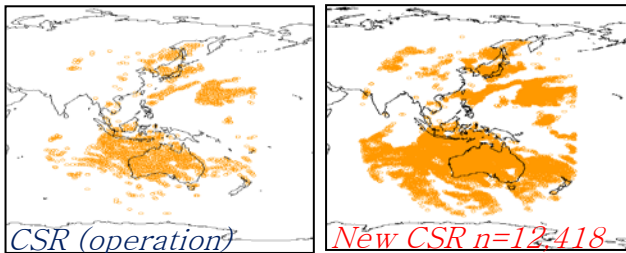


<Data coverage of IASI data (blue: Local, orange: Global)>

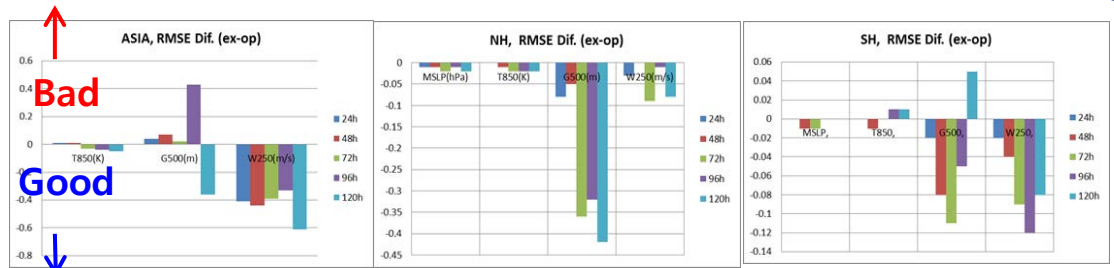


<Data coverage of RO data : ~40% obs points increased>

- New cloud detection method for COMS WV Clear Sky Radiance



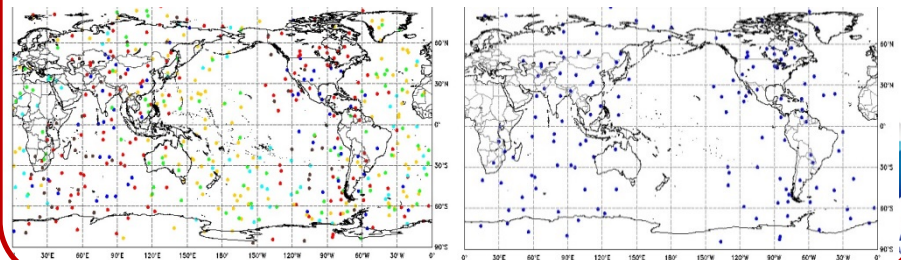
n=4,660



- KOMPSAT-5 RO data assimilation in progress

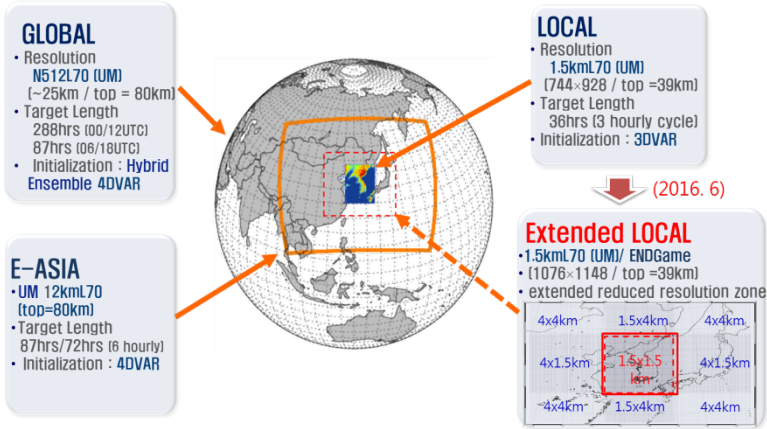
- More than 460 occultation event per day
- Similar high quality as COMSMIC during IOT period
- Recently, firmware upgraded (clock reference data)
- The data will be disseminated from end of this year

30% obs # increased of RO data : KOMPSAT-5 horizontal distribution

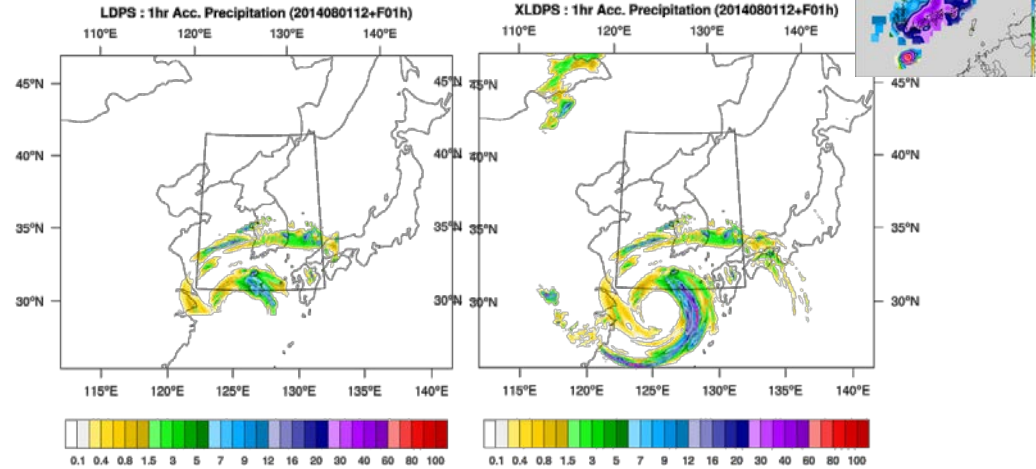


Status and Plans for Satellite Assimilation at KMA

Operational NWP system



LDAPS vs. XLDAPS



Satellite Data assimilation in KMA local area model

- 16 STN hourly data over Korea have been producing in near real time using Bernese v5.0
- DA of the ground-based GNSS gives a positive impact on the heavy rainfall cases in the summer

only 16 STN ZTD

