

Prediction and Data Assimilation Group

Breakout Session 2

Participant

- BMKG – Indonesia
- MSS – Singapore
- JAMSTEC – Japan
- NRL – USA
- MMD – Malaysia
- BCC – Beijing, China

Model

- Potential participants : BMKG
- Period : during campaigns
- Models
 - GCM : GFS 0.25deg ; ICON-14km
 - RCM : WRF (with data assimilation), COSMO (with data assimilation)
- Domain (nested) : ~20 S - ~20 N; 90 – 150 E
- Spatial resolution : WRF (27 – 9 – 3 km), COSMO (14 km - 7 km)
- Lead time : 3 days every 3 hours
- Data assimilation:
 - Synoptic data : yes
 - Radiosonde data : yes
 - Radar data : yes
 - Satellite data : not sure
 - Others?
- Output format: image and binary
- Temporary website output:
 - puslitbang.bmkg.go.id/wrf
 - puslitbang.bmkg.go.id/cosmo

Model

- Potential participants: MSS (Singapore)
- Period: real-time
- Models
 - GCM : GFS
 - RCM : WRF (downscaler), UM (downscaler and data assimilation), ensemble
- Domain (nested) : 5S – 8N; 95 – 109E
- Spatial resolution : 4.5 km, 1.5 km
- Lead time : WRF (72 h), UM (12, 36 h)
- Data assimilation:
 - Synoptic data : yes
 - Radiosonde data : yes
 - Radar data : yes
 - Aircraft data : yes
 - Radar data : yes
 - Satellite data : yes
 - Others?
- Output format: WRF (NetCDF), image
- Temporary website output:
 - Internal website

Model

- Potential participants: JAMSTEC
- Period: Nov-Dec 2017, August 2018 (Optional)
- Models
 - GCM : NICAM
 - RCM
- Domain : Global
- Spatial resolution : 7 km and 14 km
- Lead time : 2 weeks (daily update) every 6 hours,
 - 1 months (weekly update) - weekly
- Data assimilation: no
 - Synoptic data
 - Radiosonde data
 - Radar data
 - Others?
- Output format: image and binary (selected)
- Temporary website output:
 - Jamstec.go.jp/ymc
 - Dataset will be available later

Model

- Potential participants: NRL
- Period: real-time for select times
- Models
 - GCM : NAVGEM
 - RCM : COAMPS
- Domain (nested) : Philippines
- Spatial resolution : 1 – 5 km
- Lead time : 1 – 3 days
- Data assimilation:
 - Synoptic data : yes
 - Radiosonde data : yes
 - Radar data : yes
 - Aircraft data : yes
 - Radar data : yes
 - Satellite data : yes
 - Others? Ocean data assimilation
- Output format: images, flat files
- Temporary website output:
 - TBD

Discussion Results

There is a possibility for collaboration on accessing observation data for data assimilation

Data model output may need to be stored on repository that can be accessed by all participants

Additional modeling participants from UK MetOffice and MeteoFrance