

Breakout Session

Thematic Areas

How can R3 contribute to connecting user needs with GOES-R capabilities in the following areas?

- High-Impact Weather (Johnson)
- Observations & Techniques (Schrab)
- Applications, Testbeds & Training (Weiss)

Etiquette of Engagement

Source: *Proving Ground successful breakouts*

POSITIVE ATTITUDE

*Wait quietly and patiently
for your turn*

Respect each speaker.
Only one conversation at a time...

Share relevant information and experiences.

Everyone's input is equally valued.

Discussions and criticisms will focus on interests, not people.

No idea is bad.

Share "air time."

All members are expected to participate in all phases of the process.

Signal when we are going off-track.

Off-target discussions are limited to five minutes and then put in the "parking lot".

Breakout Questions

- 1) What were the significant outcomes of the Day 1 projects briefed? What are the recommended next steps for these projects to help connect GOES-R capabilities to User Needs? Were attempts to fuse GOES-R data with other data or models successful?
- 2) How do the updates from the various groups/programs (NWS, JPSS, AWG, Proving Ground, GOES-R Program Office) impact strategies to connect GOES-R capabilities to user needs? Are there new strategies emerging that new-start PIs should consider? (new start projects are listed in appendix to the agenda)
- 3) TBD by your group – the question we should have asked

Breakout Group 1

Capture Template

Discussion Item: TC rapid intensity forecasting

Recommendation: Improve sounding input thru joint GOES/JPSS

Comment: very good link to ops

Possible Action(s): transition MW and TPW to ops NOW

Breakout Group 1

Capture Template

Discussion Item: Storm Intensification – Improved CI algorithm with GOES

Application most useful where there is no RADAR (open ocean)

Link to Ops: FAA heavily involved in validation (NEXGEN)

Recommendation: tie into NASA areas of interest looking for opportunities to validate

Make link to operations more clear – to define future funding

Possible Action(s): Use AWG products

Breakout Group 1

Capture Template

Discussion Item: GPM Rainfall

Adding lightning improved bias

Link to new start

Recommendation: link to ops – suspect greatest need is over water. 2nd need in high elevations where radar not adequate.

Links to Pacific Region Test Bed and OPC

Possible Action(s): look at using ground-based lightning data

Breakout Group 2

Capture Template

Discussion Item: Aviation - Vol Ash: integrate product into WRF-CHEM model

Using all useful sats

Recommendation: explore use of JPSS and AQUA/MODIS

Possible Action(s):

Breakout Group 2

Capture Template

Discussion Item: Auto Vol Ash Alert System. Aviation needs 5-minute warning. Dispatchers want 24 hour warning. Nice link to ops (VAACs). System is not limited to GOES-R – any instrument could be used

Remote users need this as well, e.g., regional observatories

Recommendation: link up w/JPSS.

Possible Action(s):

Breakout Group 2

Capture Template

Discussion Item: Storm Tracking and lightning cell clustering using GLM data.

Recommendation: need presentation of all related research matrix “PSDI, GIMPAP, JCSDA, SPSRB”

Possible Action(s):

Breakout Group 3

Capture Template

Discussion Items: Integrated GLM/ABI approaches for detect of CI

Recommendation: need presentation of all related research to describe comprehensive path to Ops

Possible Action(s): link up w/Ops (GLM/ABI)

Breakout Group 3

Capture Template

Discussion Item: GLM lightning jump R20

Good links to Ops

High value exploratory

Recommendation:

Possible Action(s):

Breakout Group 3

Capture Template

Discussion Item: WRF Lightning Forecast Algorithm
Running in 3 models. SPC principal sponsor
OPC and fire wx also interested.

Recommendation: link w/ other GLM projects

Possible Action(s):