

# IPWG Validation Working Group 2014

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# CGMS High Level Priority Plan

- Increase access to global data for R&D purposes
- Standardized dissemination methods/formats
- Establish method/vocabulary for error estimates
- Improve relationship with end-users

# IPWG 2012

1. Foster improved availability of validation data from data sparse regions: Africa
2. Expand validation techniques webpage
3. Prepare guidance document for precipitation validation techniques and issues
4. Expand daily validation to include other countries
5. Synthesize of results from daily validation sites on a 3-monthly basis
6. Encourage validation of precipitation datasets in hydrological models
7. Collect datasets for snow validation

*Recommendation: Critical sites should be sustained/shared with IPWG members for validation purposes.*

# Action 1

- Improve communication with users by re-designing/updating the validation page on the website
  - Create sub-sections for GV data sets, uncertainty quantification, techniques, validation in hydrologic modeling, ...
  - Track site usage

*Who: Patrick Meyers, Nicolas Taburet, Bozena Lapeta*

*Report to group: August 2015*

# Action 2

- Coordination with CGMS on the V-LAB for Training and Education in satellite Meteorology

*Who: Chris Kummerow*

*Report to group: March 2015*

# Action 3

- Benchmarking satellite precipitation products in regions with high density/high quality GV data
  - Subset Beth Ebert's work over Australia

*Who: Zhong Liu*

*Report to group: March 2015*

# Action 4

- Establish relationship between GPM-GV and IPWG for snow fall validation best practices

*Who: Huan Meng*

*Report to group: March 2015*

# Action 5

- Expand GV acquisition and dissemination efforts over data sparse regions
  - Ocean: *Jorg Burdanowitz*
  - Promote new technologies (commercial MW link – cellular phone network): *Marielle Gosset*
  - China and India will establish IPWG routine daily validation: *Yan Shen, Raaj Ramsankaran*

*Report to group: June 2015*



# Action 6

- Assessment of uncertainty associated with satellite precipitation products
  - Literature review
  - Spatial, temporal, precipitation type, land type, elevation, ...
  - Extreme events

*Who: Viviana Maggioni, Patrick Meyers*

*Report to group: February 2015*

# Recommendations to CGMS

- Solicit agencies to reprocess data with current algorithms for consistent validation, with the addition of quality flags
- Emphasize the importance of uncertainty estimates associate with satellite precipitation products