

6th Annual Symposium on Future National Operational Environmental Satellite Systems-NPOESS and GOES-R

Session 9 Calibration & Validation Plans for NPP/NPOESS and GOES-R - II

ORAL: NPOESS Preparatory Project Validation Program for the Ozone Mapping and Profiler Suite (OMPS)

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Objectives: Provide an overview of the collaborative data, techniques, and team for the validation of the NPP OMPS environmental data products.

Pre-Launch Phase (L-24M to L)

- Improve Ground-based assets operations and access
- Develop Match-up and statistical analysis tools and readers
- Implement and exercise forward models for radiative transfer
- Create and manipulate sample, synthetic, and proxy SDR (Level 1), EDR DIP (Level 2) data sets
- Collect and exercise calibration parameters
- Implement alternative/heritage algorithms

Early Orbit Check Out Phase (L to L+3M)

- Check parameters and instrument behavior
- Perform internal consistency checks
- Provide feedback to SDR Team
- Test tools and alternate algorithms with real data

Intensive Cal/Val Phase (L+3M to L+24M)

- Perform external comparisons to satellite products
- Perform sub-orbital comparison/validation
- Provide feedback to IPO and NGAS
- Evaluate product applications
- Begin trending and automated monitoring

Transition to regular operations & long-term monitoring

