

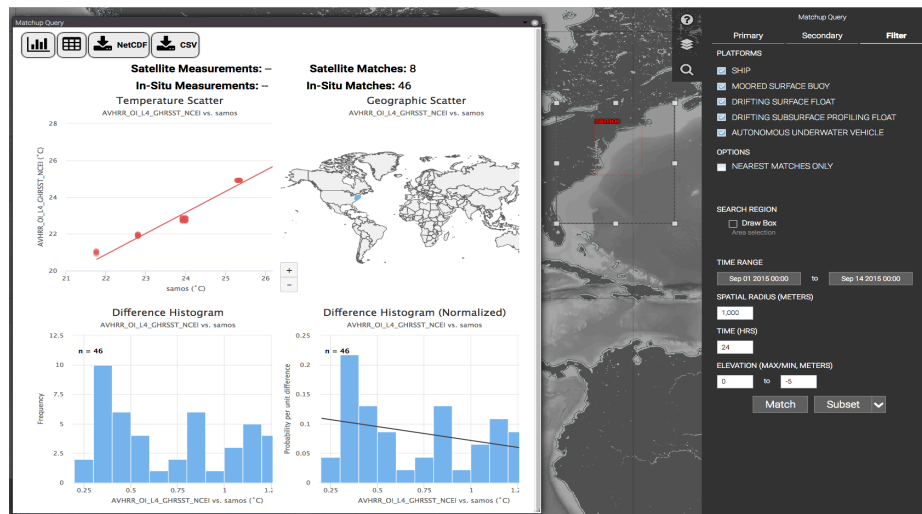


# Distributed Oceanographic Matchup Service (DOMS)

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## Objective

- Develop a capability to reconcile satellite and *in situ* oceanographic datasets amongst multiple institutions across a distributed network
- Demonstrate the DOMS capability to the oceanography and satellite research communities to support:
  - Satellite algorithm calibration, validation, and development
  - Decision support for planning future field campaigns
  - Investigations to support process studies, data synthesis, and quality control



Distributed Oceanographic Matchup Service (DOMS) Portal

## Accomplishments

- Launched DOMS Portal and published and registered in JPL PO.DAAC Labs User Community
- Established and operationalized data nodes at JPL, NCAR, and FSU
- Demonstrated use cases and concept of operations including a 3-site query
- Updated architecture, improved user interface and updated workflows and plots, based on testing and user evaluation results
- Added dynamic data subsetting capability and new data subset APIs to support both in-situ and satellite datasets
- Improved support for SMAP L2 Sea Surface Salinity (JPL) and ASCAT Wind
- Upgraded to CF/ACDD Compliant Metadata in NetCDF 4
- Successfully completed DOMS Stress Test
- Demonstrated functionality to PO.DAAC User Working Group

**Co-Is/Partners:** M. Bourassa, FSU; B. Holt, T. Huang, V. Tsontos, JPL; S. Worley, UCAR

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