

The Distributed Oceanographic Match-Up Service

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The Distributed Oceanographic Match-Up Service (DOMS) is a collaborative effort between COAPS, NCAR, and NASA JPL. DOMS is being designed to provide web-based capabilities for users to input a series of geospatial references for satellite observations and receive the in situ observations that are matched to the satellite data within a selectable temporal and spatial domain. Inverse matching, input in situ geospatial references and return matched satellite data, will also be supported. The DOMS prototype includes several characteristic in situ (e.g., International Comprehensive Ocean-Atmosphere Data Set) and satellite observation datasets, with a focus on sea surface temperature, sea surface salinity, and marine winds. DOMS has been designed to support numerous use cases within the marine and satellite research communities, with an initial focus on satellite calibration/validation and algorithm development. The service is designed to provide a community-accessible tool, both via a user web portal and RESTful web services, that will dynamically deliver matched data and allows the scientist to only work with the subset of data where the matches exist. The service is currently in the prototype phase and scheduled to go online in late 2016 – a status of the project development, an outline of use cases, and example data queries will be provided.

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- **Integrating In-situ / satellite data sources**