The Data Assimilation Research Testbed: Nonlinear Algorithms and Novel Applications for Community Ensemble Data Assimilation


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DART has been freely and publicly available for more than 10 years. Building an interface between DART and a model does not require a model to be written especially for DART; a relatively small amount of code is enough. The model needs to have a user Application Program Interface (API), which provides access to state variables in the model. DART loads the state variables and data assimilation requirements from the API and implements the assimilation process.

The Data Assimilation Research Testbed (DART) is a community facility for ensemble data assimilation and a robust ensemble data assimilation infrastructure that supports research teams to develop, test, and evaluate new data assimilation paradigms and software. DART provides access to an ensemble data assimilation software suite that supports leading-edge research in ensemble data assimilation. DART provides the ability to perform large-scale assimilation experiments and parallel execution of experiments over high-performance computing systems.

3. DART

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