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Authors

Sylvia Murphy (1), Mark Greenslade (2), Allyn Treshansky (1), Cecilia DeLuca (1), Eric Guilyardi (2), Sebastien Denvil (2).

1. NESII/CIRES/NOAA, Earth System Research Laboratory, Boulder, United States
2. CNRS, IPSL, Institut Pierre Simon Laplace, Global climate modeling group, Paris, France

Abstract

Earth System Documentation (ES-DOC) is an international project supplying high-quality tools & services in support of earth system documentation creation, analysis and dissemination. It is nurturing a sustainable standards based documentation eco-system that aims to become an integral part of the next generation of exa-scale dataset archives. ES-DOC leverages open source software, and applies a software development methodology that places end-user narratives at the heart of all it does.

ES-DOC has initially focused upon nurturing the Earth System Model (ESM) documentation eco-system. Within this context ES-DOC leverages the emerging Metafor CIM standard and is supporting the following projects:

- Coupled Model Inter-comparison Project Phase 5 (CMIP5);
- Dynamical Core Model Inter-comparison Project (DCMIP);
- National Climate Predictions and Projections Platforms Quantitative Evaluation of Downscaling Workshop.

This presentation will introduce the project to a wider audience and will demonstrate the current production level capabilities of the eco-system:

- An ESM documentation viewer embeddable into any website;
- An ESM questionnaire configurable on a project by project basis;
- An ESM comparison tool reusable across projects;
- An ESM visualization tool reusable across projects;
- A search engine for speedily accessing published documentation;
- Libraries for streamlining document creation, validation and publishing pipelines.