|  |  |  |
| --- | --- | --- |
|  | | |
| Session | IN001 - Earth and Space Science Informatics General Contributions | |
| Venue | San Francisco | |
| Date | 09th – 13th  December 2013 | |
| Type | Talk | |
|  |  | |
| **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 Labaratory, 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.