

Earth System Documentation (ES-DOC) (<http://es-doc.org>) is an international project supplying tools, APIs, and consultancy in support of earth system documentation creation, analysis, and dissemination. It nurtures a sustainable, standards-based, documentation ecosystem that aims to be integrated into exa-scale data set archives, for instance, the ESGF system. At the core of this ecosystem is a set of documentation tools that support documentation creation, search, viewing, comparison, and visualisation. All tools are built on top of the ES-DOC API. Documentation creation is supported via both a command line client and an online questionnaire.

The ESGF system already contains links to the ES-DOC documentation viewer from within its CoG search front end. ES-DOC will collaborate with ESGF in the efforts to design, develop, and deploy a robust set of really simple controlled vocabulary services. Such services will be leverageable by various components within the ESGF stack. The set of controlled vocabularies include earth system model component hierarchies for the various MIP's, as well as DRS terms, CF names, and the like.

ES-DOC will also exploit the faceted search capabilities of the ESGF search API in order to build graphical archive visualisations so as to help users better understand the archive from multiple viewpoints.

<b>Delivery Schedule</b>	<b>Milestones</b>
January 2015	pyesdoc validation & publication
February 2015	EU Workshop
March 2015	Really simple controlled vocabulary service design Questionnaire development sign-off
May 2015	Simulation comparator
June 2015	Extend viewer to support PDF formatting
September 2015	Really simple controlled vocabulary service implementation
October 2015	Build visualization data sets upon ESGF search facets.
November 2015	Full support for CMIP6 simulation documentation