# Earth System Documentation (ES-DOC) Preparations for CMIP6

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The Earth System Documentation (ES-DOC) is a multi-national, multi-institutional collaboration that supplies services in support of earth system documentation creation, analysis & dissemination. The ES-DOC project has been preparing for CMIP6 by enhancing existing documentation standards & tools, and by ensuring that a rich eco-system is in place so as to streamline document creation. Users will in due course be able to access CMIP6 documentation via the ES-DOC search, view & compare online tools.

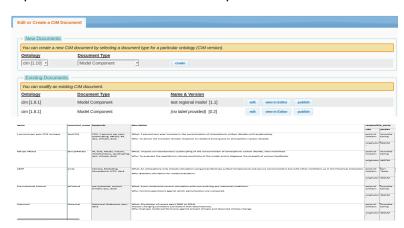
#### 1. WGCM Requirements

High-level requirements expressed at WGCM meeting

- Standardisation of model forcings
- Simplification of model components
- Streamlining of model documentation
- Automation of cimulation documentation
- Closer coordination with modelling groups
- Adopting a narrative based approach

#### 4. New Documentation Creation Tools

Spreadsheets and a new online questionniare are available



### 2. Documentation Standard Upgraded (CIM v2)

Enchancement of model forcings & process definitions



#### 5. Powerful Scripting Library = pyesdoc

Python library simplifies document lifecycle management

- Low level documentation management library
- Integrated into all ES-DOC tools & services
- Supports both CIM v1 & v2 ontologies
- Supports documentation creation, I/O, archival, validation, publishing, search.
- Integrated with controlled vocabularies
- Unit tested, open source & pip installable
- IPSL & MOHC committed to using it internally

## 3. Controlled Vocabularies Upgraded

Realm based model process documentation

Atmosphere	Atmospheric Chemistry
Atmospheric Aerosols	Land
Land Ice	Sea Ice
Ocean	Ocean Bio- Geochemistry

#### 6. Experimental Definitions Published

Draft CMIP6 experimental definitions are alrady published

















