

IS-ENES3 Milestone M6.4

ENES ESM resources updated, RP3

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ABSTRACT

The information about the IS-ENES services on ESMs and software tools has been updated on the IS-ENES web page and ENES Portal, according to the work plan in Task 1 of WP6/VA1. This milestone lists and describes the details of the updates conducted in the third reporting period of IS-ENES3.



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Objectives

The ENES Portal (<https://portal.enes.org>) serves as a central landing point for services provided by IS-ENES and ESiWACE around European Earth System Models (ESMs) and Software Tools. The “Services on Models, Tools and HPC” section of the Portal links to IS-ENES3 services and information around the individual models and common software tools, the groups developing the respective software, and the particular services offered by the project. The main objective of the Portal, and the IS-ENES3 pages it links to, is to provide enough information about the European ESM/Tool infrastructure to allow (potential) users to make actual use of the provided services.

Description of work

According to Task 1 in WP6/VA1, the “Services on Models & Tools” section of the ENES Portal (<https://portal.enes.org>) is to be updated frequently. After major update rounds in RP1 (see milestone M6.1) and RP2 (M6.3), another round of checks and minor updates has been conducted during RP3, in early summer 2022. Where needed, partners have been involved in providing new or updated information about their models or tools.

Services on Models and Tools pages

The ENES Portal and the IS-ENES3 website, which now includes the “Services on Model & Tools” pages (<https://is.enes.org/services-models-tools>), have been re-launched in July 2022, after a complete make-over thanks to a collaborative effort¹ of UREAD-NCAS, DKRZ, CNRS-IPSL, and other partners. Contributing to this effort, the information about IS-ENES3 models and tools has been once more checked and, where needed, complemented. The relaunch and make-over are part of a larger effort to prepare a sustainable ENES infrastructure that can be maintained beyond the runtime of the IS-ENES project phases.

Among other things, the new structure of the “Services on Model&Tools” pages, now available on the IS-ENES project website, addresses many of the issues raised in the latest external review (see deliverable D6.5). In particular, the navigation structure was simplified and made consistent, and duplicated information was reduced. Overall, the new pages for models and tools provide a clearer and more graphically appealing entry point for the user community.

ES-DOC information

Links at the ESM pages, pointing to the corresponding ES-DOC model descriptions, provide an easy means for users to obtain detailed information about model configurations used in CMIP5 and CMIP6. Most of the ES-DOC links on the model pages had been updated during RP2, as information on ES-DOC became available. The links have again been checked in RP3, making

¹ <https://is.enes.org/credits/>

sure links are complete and valid. At the time of writing, 14 European CMIP5 model versions are inter-linked at the model services, as well as 17 European CMIP6 versions.

A remaining issue is the missing information about the NorESM model on ES-DOC. WP6 has been working on liaising the NorESM team with the ES-DOC staff in order to overcome technical problems in the model information publication process. This work has been ongoing during 2022, albeit with moderate progress due to limited resources at met.no/NORCE. Nevertheless, the release of ES-DOC information for the NorESM CMIP6 configurations is planned for early 2023. Once this information is available, it will be linked to the “European Earth System Models” page, which is expected before the end of the IS-ENES3 project.

Beside ESM information updates, also the “Common Software Tools” section has been brought up-to-date, with a clearer structure and updated short information about services, contact points and descriptions of the five IS-ENES tools.

Next steps

As this is the last reporting period within the IS-ENES3 project, no specific steps for further updates can be planned. However, the information at the ENES Portal and IS-ENES3 “Services on Models & Tools” is considered a central resource for the upcoming ENES-RI effort. Hence, further activities to maintain and develop the information about European ESMs and tools will be passed on to the ENES-RI framework.