

Creating an online overview of models developed within Copernicus

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Objectives

Whilst a lot of models have been developed at the Copernicus, a comprehensive overview of these models is currently lacking. An online overview will be developed to mitigate this, which will have multiple advantages. First, it can facilitate logical and creative collaboration between different researchers, both within and outside of Copernicus. This speeds up scientific advancement in specific topics, and improves the position of Copernicus in the broader scientific community. Secondly, by having the models easily accessible they can more readily be used within education. This helps students understand current modelling methods, and enables them to enhance the models currently developed by Copernicus.

Overview of Copernicus models

As mentioned above, an overview of the utilized models will be developed. This will consist of three components:

Dataverse overview: Dataverse is the existing research data repository utilized by the UU, as well as numerous researchers both in the Netherlands and around the world.¹

Within Dataverse, all the utilized models and corresponding data will be stored in a dedicated Copernicus page. This will have both all models as a list users can scroll through and pick ones of interest, and a search function to find ones desired. Upon selecting a model, users are redirected to the Model page.

Model page:

Within every model page following will be present.

1. Name
2. Description
3. Who worked on the model including contact details.
4. And, if applicable:
 - a. Link to a file containing model description
 - b. Link to input data
 - c. Link to model output data
 - d. Link to data visualization page
5. And, if feasible:
 - a. Functionality to allow users to utilize the model themselves.

Copernicus overview:

On the Copernicus website, a more creative and illuminating overview will be given, in contrast to the vertical list supplied in the Dataverse overview. This will illustrate connections between the models, and creates an overview of the models within the Copernicus website. Exactly what this will look like depends on the number of models partaking and on further discussions. Here, models can be selected which will bring you to the specific model page in the Dataverse.

¹ <https://www.uu.nl/en/research/research-data-management/tools-services/tools-for-storing-and-managing-data/data-repository-finder/the-research-data-repository-dataversenl>

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