Bridging the gap between web interfaces and notebooks in the eWaterCycle II project

eWaterCycle

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Photography encouraged

Why

In the eWaterCycle II project we want the Hydrology modelling community to show off and run their own and colleagues models. Models can be expored in a fancy web interface. On the press of a button, we generate Jupyter notebooks to quickly have a runnable model with basic Hydrograph plots.

How

The experiment launcher accepts a selection made in a visualization web application, next it will generate a notebook based on that selection and launch the notebook giving the user a URL where he/she can edit and run the notebook.

Other Jupyter extension by eWaterCycle team: JupyterLab THREDDS extension

Inject THREDDS or ESGF datasets into notebook cells as xarray, iris code snippets from inside JupyterLab environment
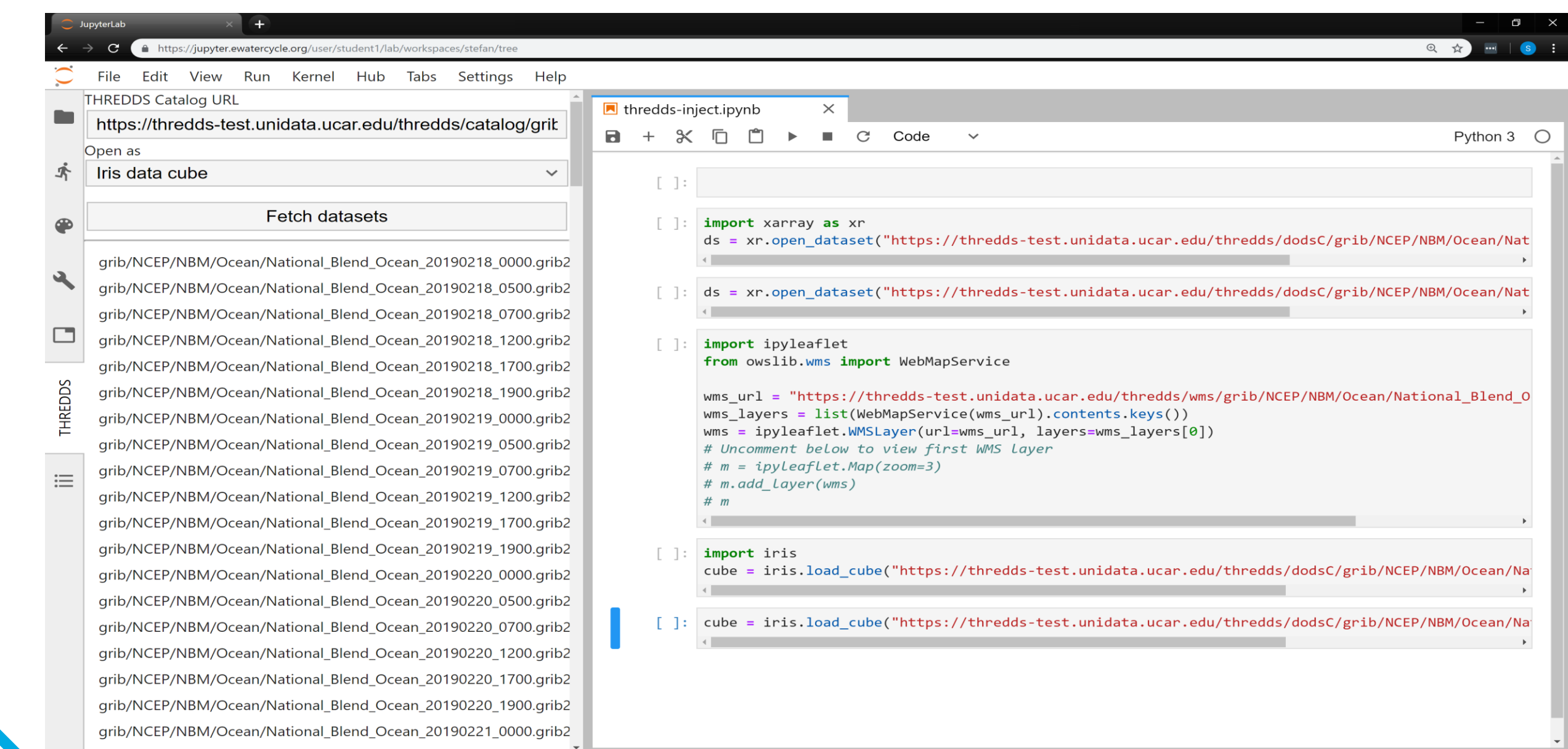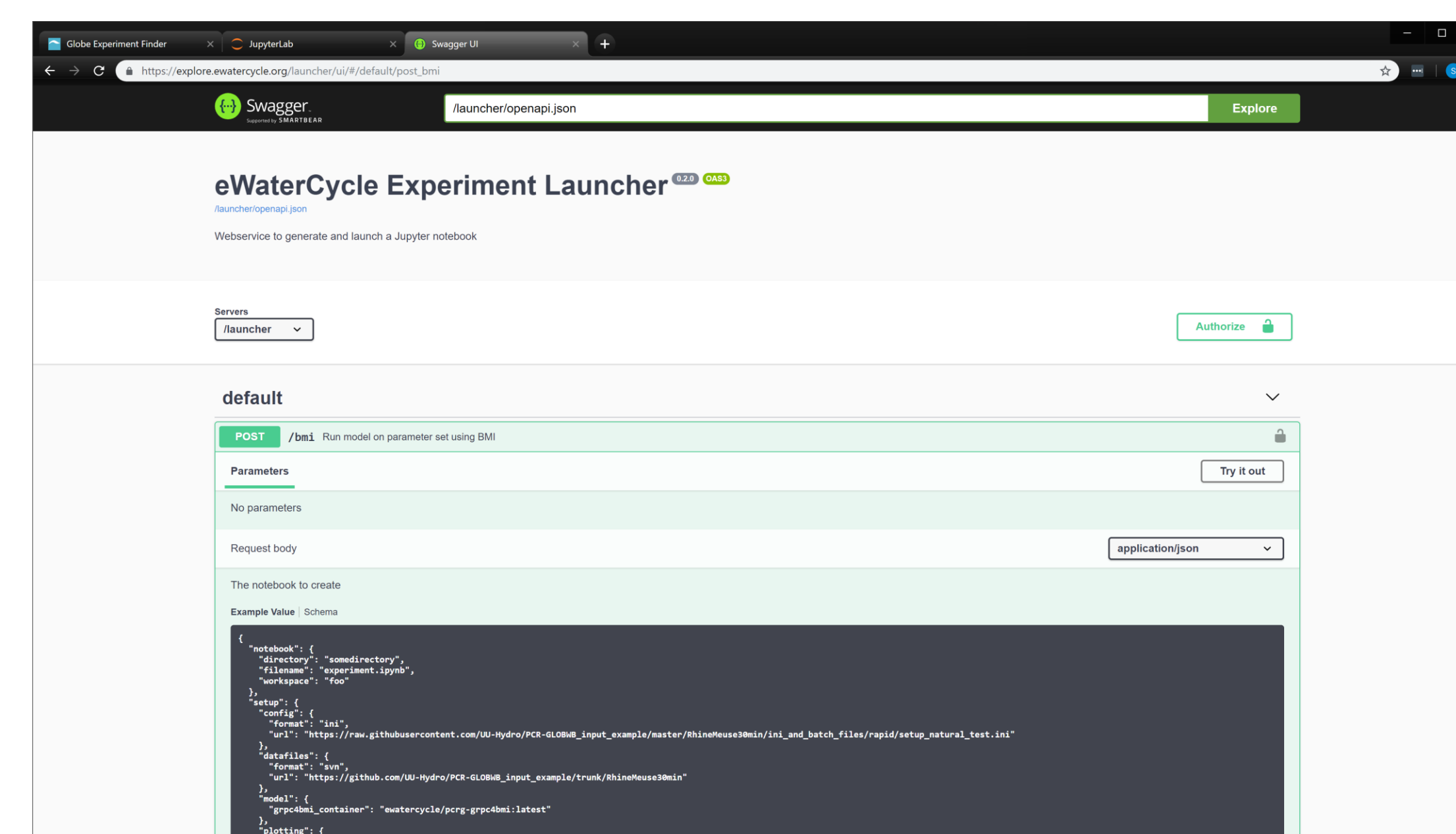

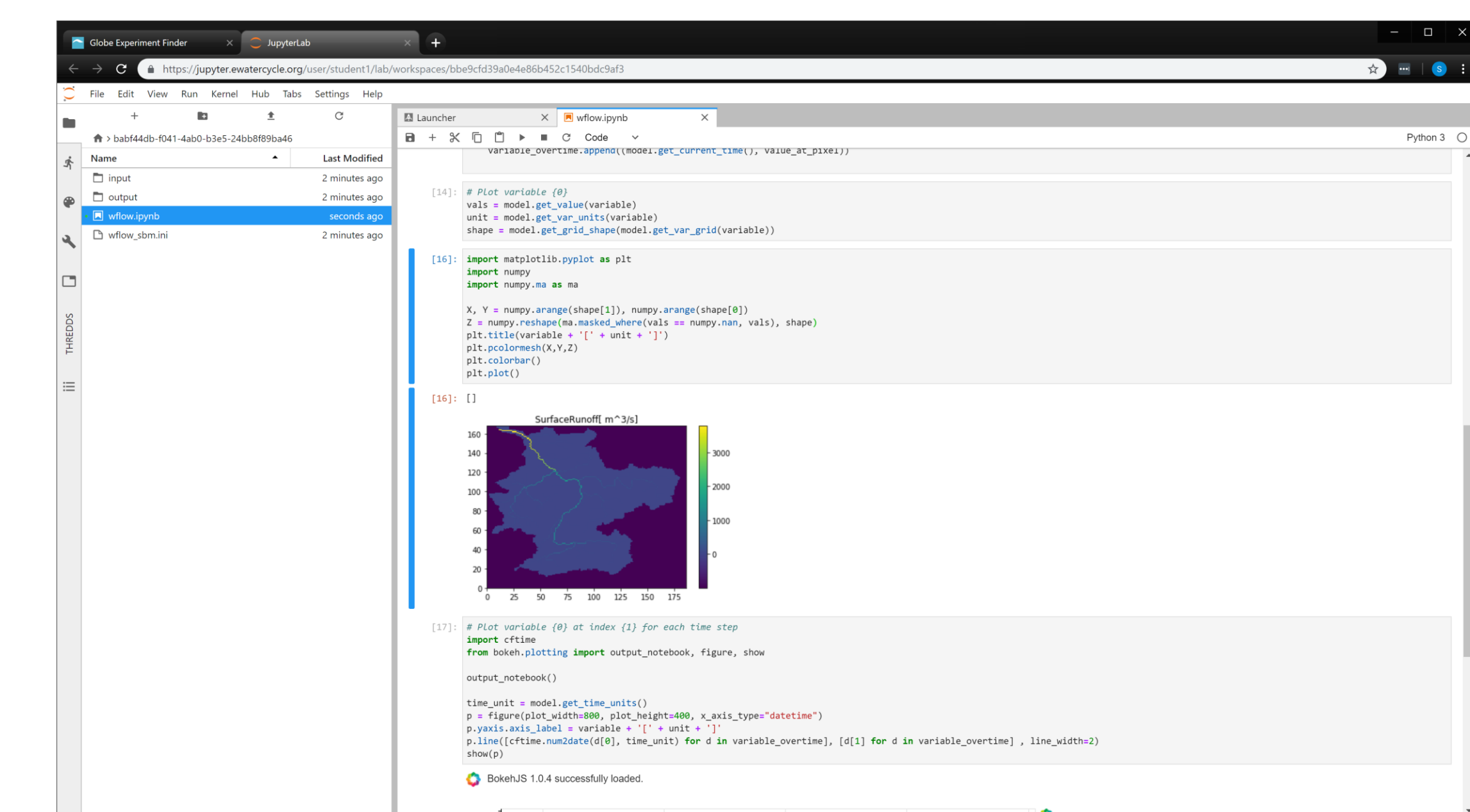https://github.com/eWaterCycle/jupyterlab_thredds
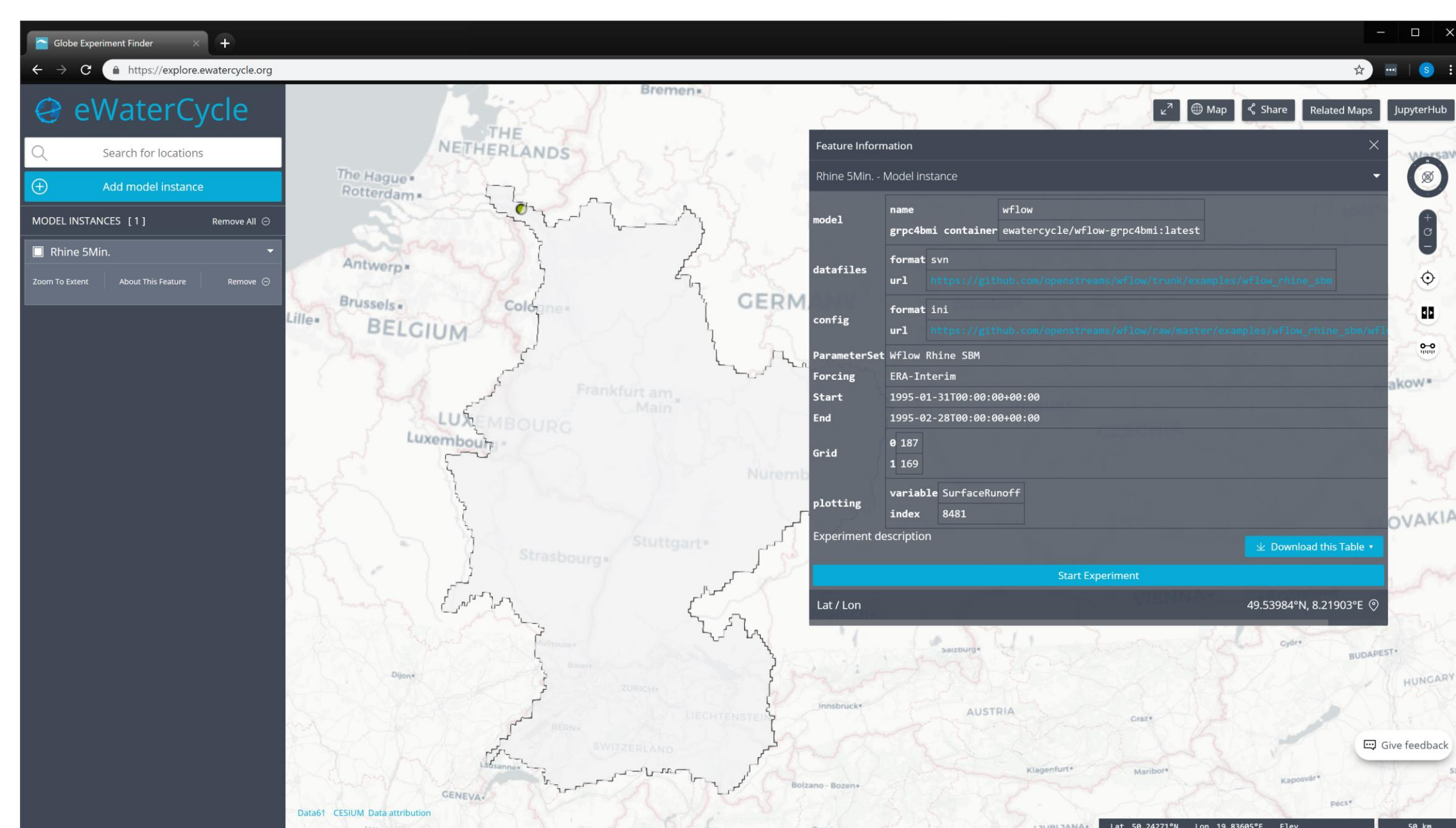
Explore → Select model, region, forcings → Automatically create notebook, start Jupyter and redirect user → Tinker and run

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