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Combining Climate Modelling and Ensemble Data Analysis in Lectures of Meteorology Studies at Freie Universitaet Berlin

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The application of Earth System Models (ESM) in lectures of
meteorology studies has the potential to combine different aspects of geoscience with the practical training of students in the management of big data sets.
At Freie Universitaet Berlin two software projects with
different targets were developed independently.
The VAST system (Virtual Laboratory for Earth System Studies) provides a web-based e-learning environment, specialized for the operation of weather and climate models in the context of student training.
It can be used to design model application scenarios (scientific
questions) with tutor controlled experiment configuration, to combine the scenarios in courses and to supervise the students during the model execution and data analysis. The FREVA system
(Freie Universitaet Evaluation System) is specialized in applying
analysis workflows (plugins) on big data sets, e.g. which can
be part of the ESGF. The data of the FREVA system has to be organized following the rules of community standards, see the CF convention and CMOR.
The poster will show, how both systems were linked and set up to
a collaborative working environment for teaching purpose.