Session: C28 Poster: W27B

## New climate models: The ICON Non-hydrostatic model and Results of Aqua-Planet experiments.

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ICON is a joint project of the Max Planck Institute for Meteorology in Hamburg (MPI-M) and Deutscher Wetterdienst (DWD) for the development of new unified general circulation models for climate modeling and numerical weather forecasting on global or regional domains (see the poster by Giorgetta et al.). This poster will provide an overview of the new ICON non-hydrostatic atmospheric model which is developed for high-resolution applications with static grid refinement functionality. The focus of this poster is on the parameterization schemes of sub-grid diabatic processes. Results from aqua-planet experiments will be presented. In particular the hydrological and energy balance of the model climate will be shown.