



Lake Parameterization Scheme FLake in NWP Models COSMO and ICON: Status and Plans

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The fresh-water lake parameterization scheme FLake (<http://lakemodel.net>) is used operationally within NWP models COSMO (since December 2010) and ICON (since January 2015). Details of the implementation of FLake into COSMO and ICON are summarized, first ICON operational results are presented, and some important issues are discussed, including monitoring of operational results, external-parameter fields, and the use of FLake within a tiled surface scheme. Some challenging issues to be addressed in the future are outlined, e.g. explicit treatment of snow over lake ice and extension of FLake to the case of salt water.