



## **Data assimilation with EKF for FLake: problems and perspectives**

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Different aspects of application of EKF to assimilate lake water surface temperature observations into Lake model FLake are described. Results of cross-validation and some error statistics are presented. The importance of early spring observations is stressed. The situation of decoupling between the mixed layer and the thermocline during stable conditions in summer is shown to be problematic for data assimilation with EKF.