Status and progress in Global Lake Database developments

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Lakes influence the structure of the atmospheric boundary layer and should be taken into account in the numerical weather prediction (NWP) and climate models through parameterization. Global database of lake depth GLDBv1 is developed for this purpose (the depth of unknown lakes in it is set to 10 meters). Upgraded version, GLDBv2, contains indirect estimates of the mean depth for unknown lakes in boreal zone, depending on their geological origin. Further developments of GLDB include indirect estimates of the mean depth for unknown lakes in the whole world, first steps concerning saline lakes, reservoirs and crater lakes.