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AFISMIP: Age Field in Ice Sheet Modeling Intercomparison Project

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The last few years have seen a great deal of effort invested by various research groups in developing numerical ice sheet models. One interest of these models is to evaluate the age field of current or past ice sheets. Indeed, such a modeling exercise can be used to prospect for new drilling sites aiming at retrieving very old ice (e.g. >1 Myr). Reciprocally, observations on the age field provided by (1) already drilled ice cores or (2) internal layers measured by radio-echo sounding, can constrain the velocity field in ice sheet. The purpose of the proposed experiments is to address the accuracy of the numerical models of the age field. Numerical simulations will be inter-compared or confronted to analytical solutions.