



0.1 Comparison of sea ice projections from GCM and ice-ocean models

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The estimations of possible changes of sea ice conditions in the Arctic Basin up to 2060 are fulfilled with dynamic-thermodynamic sea ice model forced by projections of monthly average fields of surface air temperature and surface pressure, based on the results of five GCM (HadCM3, ECHAM5/MPI-OM, GFDL-CM2.1, CNRM-CM3, and INM) B2 scenarios. It is shown, that the maximal reduction of ice covered area and ice thickness in the Arctic Basin under different model forcing will not exceed 25 % up to 2060. Same time the detailed analysis of possible changes of sea ice cover till 2015 under forcing from practically all GCM shows increase in the area and thickness of sea ice cover in the European part of the Arctic Basin and small increase of ice thickness and reduction of ice area in the Pacific sector. In conclusion the differences of sea ice projections from our original sea ice-ocean model and GCM models are analyzed.