



ATP (Arctic tipping points) is a large scale integrating project funded under the EU FP7 Theme ENV.2008.1.1.5.2 ('Climate change impacts and Thresholds on Arctic Ocean ecosystems'). ATP is coordinated by Prof. Paul Wassmann, University of Tromsø, Norway.

Scientific goal of ATP (<http://www.eu-atp.org/>) is to identify the elements of the Arctic marine ecosystem likely to show abrupt changes in response to climate change. ATP will evaluate the consequences of crossing those tipping points, and the associated risks and opportunities for economic activities dependent on the Arctic marine ecosystem.

A biological-physical coupled 3 D model (SINMOD) will be used by project partners from SINTEF (Norway) to generate future trajectories of Arctic ecosystems under projected climate change scenarios and to identify their consequences for the Arctic ecosystem. Target region of ATP is the European-Arctic corridor and Greenland. High resolution climate scenario input data for SINMOD will be provided by MPI-M. The regional climate simulations will be performed with the regional climate model REMO. The model domain will cover the region from about 60°N to 85°N and from -60°W to 40°E.