8 years of experience in international, interdisciplinary and structured doctoral training in Earth system modelling

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The mission of the International Max Planck Research School on Earth System Modelling (IMPRS-ESM) is to provide a high quality, modern and structured graduate education to students pursuing a doctoral degree in Earth system modelling. In so doing, the IMPRS-ESM also strives to advance the emerging discipline (or cross-discipline) of Earth system modelling; to provide a framework for attracting the most talented and creative young women and men from around the world to pursue their doctoral education in Germany; to provide advanced as well as specialized academic training and scientific guidance to doctoral students; to encourage academic networking and publication of research results; to better integrate doctoral research at the Max Planck Institute for Meteorology (MPI-M) with education and research at the University of Hamburg and other cooperating institutions. Core elements are rigorous selection of doctoral students, effective academic supervision, advanced academic training opportunities and interdisciplinary communication as well as administrative support. IMPRS-ESM graduates have been recognized with a variety of awards. 85% of our alumni continue a career in research.

In this presentation we review the challenges for an interdisciplinary PhD program in Earth system sciences and the types of routines we have implemented to surmount them as well as key elements that we believe contribute to the success of our doctoral program.