

HITEC Theme Day

Title: Climate Modeling

Date: 16th March 2017

Time: 9:00 – 16:15

Location: [Forschungszentrum Jülich](#) ► Bld. 04.7, Room 338

Do you know how climate models work? What can we learn from them? How reliable are they? Modern climate models are a mathematical representation of the Earth System and the interactions between different compartments, i.e. atmosphere, oceans, ice, land surface, and they include representation of biogeochemical cycles. Climate models are used as tools for projecting future climate change, attributing past climate change to anthropogenic or natural causes, and also to further improve the understanding of Earth System processes and their linkages.

This workshop will give you an introduction to the principles of climate modelling including some discussion about the reliability of climate model projections and their application to societal challenges

You will learn about:

- Modeling of various components of the climate system and the capabilities and challenges of current climate models

Contents:

- Modeling of climate dynamic
- Modeling of biosphere-atmosphere interaction
- Modeling of atmospheric chemistry
- The role of climate modeling for society
- Modeling of ocean
- Evaluation of climate models

Who should attend:

HITEC Ph.D.-fellows;

Postgraduate-, Ph.D.- and postdoctoral fellows from the fields of energy and climate research

HITEC Days

HITEC Days are an inherent part of the graduate school Helmholtz Interdisciplinary Doctoral Training in Energy and Climate Research (HITEC). They devote a whole day to a method or a scientific topic with lectures and discussions. The methodological days serve to encourage scientific interdisciplinarity and will enable the PhD students to extend their range of methods with respect to their own scientific work. HITEC Days always end with a 'Get together', some snacks and drinks. HITEC Days are open for HITEC Ph.D. students and other interested young scientists.