HITEC Lab

Title: **Scientific Flight Planning**

Date: **2 May 2018**

Time: **9:00 – 17:00**

Location: **Forschungszentrum Jülich ▶ Building 05.2, room 1057**

The fast visualization of 3D data has become a challenging task in many scientific fields. In atmospheric research for example 3D visualization of forecast data is important for scientific flight planning. The MSS python project is a tool specialized to produce variable cross sections (vertical and horizontal) for scientific flight planning. This is done by accessing 3D data stored on a WMS server with a Python frontend, which is easy to install using the Anaconda Python package management. In this HITEC-Lab the participants will learn how this combination of Python frontend and WMS Server work together and how the MSS tool can be used efficiently for data visualization and flight planning

You will learn:

- Visualization of 3D data with MSS
- How to use the MSS tool for scientific flight planning

Methods:

- MSS Python project
- WMS / GIS servers

Who should attend:

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

HITEC Labs

The HITEC Labs are hands-on periods of practical training lasting 2 to 3 days, in which small groups of students from various institutes concentrate on one method that is applied in various fields. The aim of the HITEC Labs is to enable the PhD students to appreciate that a method originating from an unrelated field may also be applied in their own work. If students should discover that they require more intensive instruction in applying the method than can be imparted during the HITEC Lab, then they can make arrangements with PhD students at the institute in question to work at the institute for a limited period.