ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Prof. Christoph Schär
Institute for Atmospheric and Climate Science
ETH Zürich
Universitätsstr. 16
8092 Zürich

Extraordinary Seminar

Prof. Georg Mayr

Institute of Meteorology and Geophysics
University of Innsbruck

Foehn winds:
processes, diagnosis and climatologies

Wednesday, January 14, 2015, 13:00

ETH Zentrum, CHN L17.1

Foehn winds are not just an Alpine peculiarity; they are as ubiquitous as the topographic obstacles on earth. What drives them, which processes lead to their onset, how they are maintained, and what ends them, will be the first part of the presentation. To diagnose whether foehn occurs is an unsupervised learning problem and as such tricky for human experts and algorithms alike. An objective probabilistic diagnosis method will be presented and used to study the statistical characteristics of foehn and its effect on the local climate