

5th DWD ICON Training Course

Monday, April 8, 2019

09:00 – 09:45	Auditorium	Introduction
09:45 – 10:30	Auditorium	Dynamics (G. Zängl) horizontal and vertical grid, nesting and LAM, governing equations, discretization, time-stepping
10:30 – 11:00		Break
11:00 – 12:30	Auditorium	Getting Started with ICON (F. Prill) input data and technical setup, parallelization, output, where to obtain the code
12:30 – 14:00		Lunch Break
14:00 – 15:30	B.2.10	Hands-on Training I: Idealized Test Cases basic model run; viewing grids and data
15:30 – 16:00		Break
16:00 – 16:45	B.2.10	Hands-on Training I: Idealized Test Cases ctd. Nested sub-domains, tracer advection
16:45 – 17:30	B.2.10	Data Visualization with Python and PyNGL (F. Prill)
18:00		Icebreaker

Tuesday, April 9

09:00 – 09:45	Auditorium	ICON-NWP Physics: General Overview (D. Klocke)
09:45 – 10:30	Auditorium	Details of the Advection Scheme (D. Reinert)
10:30 – 11:00		Break
11:00 – 11:45	Auditorium	Cloud Microphysics (A. Seifert)
11:45 – 12:30	Auditorium	Clouds and Convection (M. Köhler)
12:30 – 14:00		Lunch Break
14:00 – 15:30	B.2.10	Hands-on Training II: Running ICON-NWP with Real Data starting from DWD analysis; grids and external parameters
15:30 – 16:00		Break
16:00 – 17:30	B.2.10	Hands-on Training III: Input Data for ICON-LAM grid generation; remapping of initial and boundary data

Wednesday, April 10

09:00 – 09:45	Auditorium	Radiation (<i>S. Schäfer</i>)
09:45 – 10:30	Auditorium	Lake & Sea Ice (<i>D. Mironov</i>)
10:30 – 11:00		Break
11:00 – 11:45	Auditorium	Turbulent Diffusion (<i>M. Raschendorfer</i>)
11:45 – 12:30	Auditorium	Turbulent Transfer (<i>M. Raschendorfer</i>)
12:30 – 14:00		Lunch Break
14:00 – 15:30	B.2.10	Hands-on Training IV: ICON-LAM running ICON-LAM
15:30 – 16:00		Break
16:00 – 17:30	B.2.10	Hands-on Training IV: ICON-LAM ctd. starting ICON-LAM from initialized analysis

Thursday, April 11

09:00 – 09:45	Auditorium	Gravity Wave Drag (<i>M. Köhler, J.-P. Schulz</i>)
09:45 – 10:30	Auditorium	Soil & External Parameters (<i>J.-P. Schulz</i>)
10:30 – 11:00		Break
11:00 – 11:45	Auditorium	Verification (<i>M. Hoff</i>)
11:45 – 12:30	Auditorium	ART (<i>B. Vogel</i>)
12:30 – 14:00		Lunch Break
14:00 – 15:30	B.2.10	Hands-on Training V: Programming ICON Implementing your own diagnostics
15:30 – 16:00		Wrap-up & Group Picture
16:00 – 17:30	B.2.10	Hands-on Training V: Programming ICON ctd. Implementing your own diagnostics

Friday, April 12

09:00 – 17:30	B.1.05	Additional Course: Aerosols and Reactive Trace Gases (conducted by KIT)
09:00 – 17:30	B.2.10	Additional Course: How to Install ICON (conducted by NMA Romania)
09:00 – 17:30	B.2.07	Additional Course: Accelerated Dynamical Core of COSMO (conducted by MeteoSwiss)