



natESM Training 2023

Day 1 ▪ 14.11.2023

Topic of the day:

Ways of coupling of ESM components exemplified by ICON

12:00 Arrival and registration

13:00 Welcome and overview
Hendryk Bockelmann (DKRZ)

13:10 Presentation: Interfacing with ICON – the
ICON-CLM view
Trang van Pham (DWD)

13:40 Presentation: YAC for ICON
Moritz Hanke (DKRZ)

14:10 Presentation: A Pythonic way to use YAC
Nils-Arne Dreier (DKRZ)

14:30 Intro to Hands-on session

15:00 **C o f f e e b r e a k**

15:30 Hands-on: How to use ICON data in-situ
for other tasks via YAC-Python interface
Moritz Hanke (DKRZ), Nils-Arne Dreier (DKRZ),
Ralf Müller (DKRZ)

17:00 Plenary discussion on coupling concepts
Moderated by Iris Ehlert (DKRZ)

18:00 **I c e b r e a k e r**

Day 2 ▪ 15.11.2023

Topic of the day:

Tight coupling and interfacing of ESM components

10:00 Presentation: Generic API concepts
ESM – lessons learned from MESSy
Patrick Jöckel (DLR)

10:20 Presentation: Generic concepts of
ICON ComIn
Florian Prill (DWD)

10:50 Plenary discussion on ComIn and its
implications for the natESM strategy
Moderated by Iris Ehlert (DKRZ)

11:45 Presentation on natESM sprint:
Coupling MESSy to ICON via ComIn
Kerstin Hartung (DLR)

12:00 Collecting ideas how natESM sprints
support community wide interfaces
Moderated by Iris Ehlert (DKRZ)

12:30 **L u n c h b r e a k**

13:30 Presentation with tutorial:
YAXT as a coupler
Thomas Jahns (DKRZ), Xingran Wang (DKRZ)

15:00 **C o f f e e b r e a k**

15:15 Presentation: Asynchronous component
execution at the example of HAMOCC
Enrico Degregori (DKRZ)

15:30 Presentation: YAXT - Improved SCALEXA
vision, technical details (load-balancing)
Fabian Senf (TROPOS)

15:45 Presentation: Hiopy and healpix output
Tobias Kölling (MPI-M)

16:15 Plenary discussion on API concepts
Moderated by Iris Ehlert (DKRZ), Hendryk Bockelmann (DKRZ)

16:45 Wrap-up
Hendryk Bockelmann (DKRZ)

17:00 **E n d o f t r a i n i n g**