Newsletter
German Climate Computing Center
Number 66 – April 2026

CMIP 2026: International climate modeling community meets in Kyoto

From March 9 to 13, 2026, the international climate modeling community gathered at the CMIP Community Workshop 2026 in Kyoto, Japan, to discuss key scientific priorities and infrastructure requirements for the upcoming seventh phase of the Coupled Model Intercomparison Project (CMIP), which will contribute to the data foundation for the next IPCC report. A total of 430 participants attended in person, with an additional 200 joining online. They reviewed results from CMIP6, discussed scientific priorities for CMIP7, and addressed the further development of sustainable data and infrastructure. ESMO, whose international project office is hosted at DKRZ, was one of the co-sponsors of the CMIP 2026 workshop and contributed to the overall organization of the event. It also organized the launch of a new WGCM forum to strengthen international networking within the modeling community. DKRZ contributed particularly to discussions on CMIP data provision and the development of future infrastructure. In addition to scientific topics, broader challenges such as the sustainable funding of research infrastructures and improved prospects for early-career scientists and researchers from the Global South were also addressed. Further information: www.dkrz.de/en/cmip-ws2026/

ICCARUS 2026: Exchange on ICON, COSMO, and ART Models

From March 16 to 20, 2026, ICCARUS brought together around 150 international model developers, users, and infrastructure experts at the German Weather Service (DWD) in Offenbach; a similar number also participated online. ICCARUS – the ICON/COSMO/CLM/ART User Seminar – is held annually by DWD in cooperation with the COSMO Consortium, the CLM Community, the Karlsruhe Institute of Technology, the Max Planck Institute for Meteorology, and DKRZ. The focus is on the development and application of numerical models for weather forecasting and climate simulation. Topics range from physical parameterizations and data assimilation to ensemble generation, model verification, and technical model development. This year's program, including plenary sessions, posters, working group meetings, and workshops, provided space for presenting current research results, discussing practical development challenges, and networking. DKRZ contributed several talks as well as posters and organized workshops focused on advancing models for efficient use on modern high-performance computing systems. These contributions highlighted DKRZ's central role in adapting climate and weather models to mordern HPC environments. Further information: www.dkrz.de/en/iccarus-2026/

EERIE General Assembly: Collaboration and Data Access

From March 9 to 13, 2026 researchers from Europe and South Africa met in Barcelona, Spain at the EERIE General Assembly. The focus was on scientific exchange and advancing the project as it transitions into its second phase. EERIE aims to improve the understanding of eddy-rich ocean processes and small-scale atmospheric dynamics. Accordingly, the importance of data infrastructures and services was a key topic of discussion. DKRZ presented solutions for data access and publication and supported on-site collaboration by providing datasets on external storage devices. This enabled direct use and sharing of EERIE data despite limited network connectivity. Another focus was data management within Work Package 3, including issues related to publication, access, and the release of additional datasets in the World Data Center for Climate. Discussions highlighted the central role of modern data infrastructures in enabling open access to research results. Further information: www.dkrz.de/en/eerie-ga2026/

DKRZ hosts Deep Learning Workshop for climate researchers

From 10–12 March 2026, DKRZ hosted a workshop in Hamburg, introducing 28 participants to how deep learning can support climate science. The event was organized as part of the EXPECT consortium and co-hosted by Helmholtz-Zentrum Hereon. Following the theoretical introduction, participants engaged in an extensive practical hands-on sessions. Through interactive programming exercises, they developed, trained, and evaluated their own models for applications such as classification, gap filling, and statistical downscaling. In addition to technical training, the workshop also provided a platform for exchange and networking between PhD candidates and experienced scientists. Further information: www.dkrz.de/en/deep-learning-workshop/

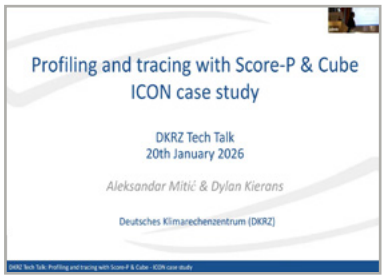
More exchange, new momentum, and AI debate during 6th natESM Community Workshop

On February 24 and 25, 2026, the natESM community met in Leipzig for an intensive exchange on the further development of the natESM system. The discussions led to new initiatives: working groups were formed, focus workshops were planned, and evaluations of programming sprints were initiated. A key step was the stronger integration of the Impact community, which translates climate simulations into tangible, real-world consequences . A new Paleo Working Group was also established to prepare a proposal. A highlight was the talk by Peer Nowack (KIT) on the role of AI in Earth system modelling, followed by a panel discussion with Hendryk Bockelmann (DKRZ), Anja Schmidt (DLR-PA), and Jochem Marotzke (MPI-M). Further information: www.dkrz.de/en/6natESM-community-ws/

Continued high demand: 10th Python course for Geosciences

From February 2 to 6, 2026, the DKRZ team held its tenth online beginner's course "Python for Geosciences." Five years ago it started with 20 participants - since then it has developed into a well-established and successful format. Due to continued high demand, 85 participants were able to attend this time. Since the course began, more than 500 students, researchers, and project partners have gained practical insights into Linux and JupyterHub environments and learned the fundamentals of Python, data analysis, and visualization. The numerous exercises and interactive format are consistently highlighted as particularly helpful for beginners. The next beginner`s course is scheduled for autumn 2026. Further information: www.dkrz.de/en/10-python-WS/

New on the YouTube channel: DKRZ Tech Talk "Profiling and Tracing"



The talk on collecting and optimizing performance data e.g. runtime and ressource utilization of model components is now available on the DKRZ YouTube channel. Using the ICON model, the typical workflow is explained, and practical tips for identifying and resolving performance bottlenecks are provided. The focus is on using the tools Score-P and Cube on the DKRZ supercomputer Levante. The presentation is aimed at users with little or no prior experience in performance optimization, as well as anyone interested in improving the performance of ICON using open-source tools. Further information: https://youtu.be/A16KVQwKoc4/

On our own account: Open job offers at DKRZ

Do you want to join the DKRZ team – we are looking forward to your application: Software Engineer (all genders) in the departments Data Management / Data Analysis

General information about vacancies and working conditions at DKRZ: www.dkrz.de/en/about-en/vacancies/

Upcoming events

"Zukunftstag" in Climate Research, organized by DKRZ and MPI-M in Hamburg on April 23, 2026: www.dkrz.de/en/zukunftstag2026/

DKRZ at the EGU General Assembly 2026 from May 3 to 8, 2026, in Vienna, Austria: www.dkrz.de/en/egu26/

German Climate Computing Center
Bundesstrasse 45a
D-20146 Hamburg
www.dkrz.de

Editors/Layout:
Prof. Dr. Thomas Ludwig
Jana Meyer

Contact: info@dkrz.de