



MUSICA
Multiscale Infrastructure for
Chemistry and Aerosols

MUSICA Tutorial September 2024

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Date: Sep.20 to Sep.21, 2024

Location: Nanjing University (Xianlin Campus), Nanjing, China

Overview: Nanjing University and the Atmospheric Chemistry Observations and Modeling (ACOM) Laboratory at NSF NCAR will be jointly hosting an in-person tutorial on the Multi-Scale Infrastructure for Chemistry Modeling (MUSICA). The primary audience for this tutorial is new or beginning users of MUSICA. The tutorial will include lectures describing CAM-chem and MUSICA, tools for results analysis, and tools for creating a customized grid and input files, and hands-on practice sessions on running standard CAM-chem/MUSICA_{v0}, results analyses and plotting, and creating a customized model grid. Basic knowledge of atmospheric science and numerical modeling as well as experience working within a UNIX computing environment are required for the tutorial. The tutorial will be part of the "International Workshop for Multi-scale Modeling of Weather, Climate and Atmospheric Environment". The workshop will be at Nanjing University on September 19-20 (Thursday-Friday).

Available Spaces: Spaces are limited and we can accommodate a maximum of 50 participants. Applications for space in the tutorial will be assessed based on the curriculum vitae of applicants. All applicants will be notified if they have been accepted by the end of 31 July 2024.

Application opens: 15 June 2024 – 15 July 2024

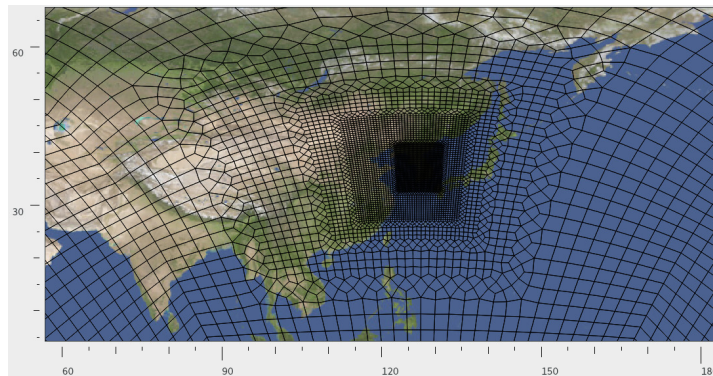
Application link: <https://forms.office.com/r/CcnjHF54vK>

Fees: \$280 or ¥2000 (Those who successfully register and pay for the tutorial will automatically be eligible to attend the workshop at no additional cost.)

Contact us: If you have any question or need assistance, please email us at musica_tutorial24@163.com.



About MUSICA: MUSICA_{v0} is a configuration of the Community Atmosphere Model with chemistry (CAM-chem), which is a component of the Community Earth System Model (CESM). MUSICA_{v0} is a global model with the regional refinement over one or more regions of interest, allowing for the representation of large-scale atmospheric phenomena, while still resolving chemistry at emission- and exposure-relevant scales (<https://www2.acom.ucar.edu/sections/multi-scale-infrastructure-chemistry-modeling-musica>). With MUSICA_{v0}, the same chemistry and physics are used at global and regional scales, so the global impacts on, and interactions with, the region(s) of interest can be simulated in a consistent way. Below is an example of a customized MUSICA grid. Scan the QR code shown at the end of this flyer to learn more about the model.



Important note: To participate in the tutorial practical sessions, attendees should plan to bring a laptop that includes a terminal environment that supports shell commands such as 'ssh' (to access a remote computer), and an X11 server (for display). It is the attendee's responsibility to ensure this is set up prior to attending. Tutorial instructors are not able to help with this. Attendees will practice on the high-performance computer provided by Nanjing University during the tutorial.

