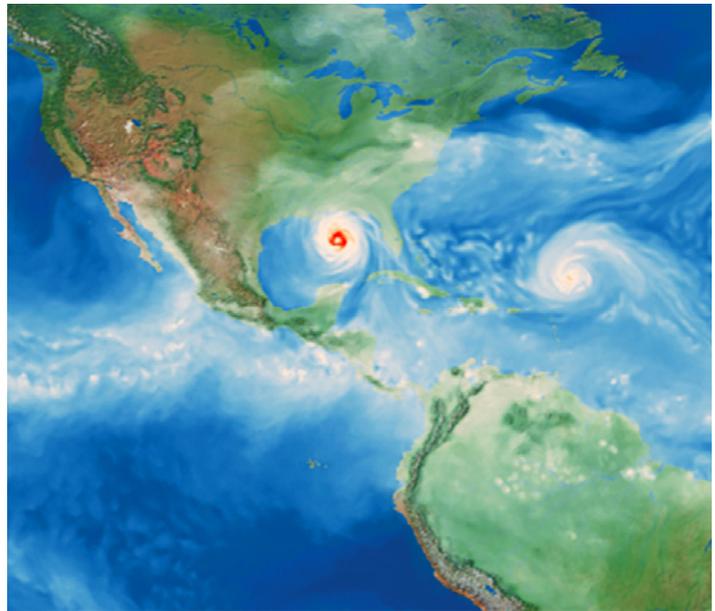




E3SM: The Energy Exascale Earth System Model

Scientists are addressing major research areas in earth system science by developing and applying high-fidelity models that represent earth system changes to improve understanding of the significant drivers, feedbacks, and uncertainties within the integrated earth system. This research provides information needed for effective energy and connected infrastructure planning.

The Energy Exascale Earth System Model (E3SM) project is a state-of-the-science earth system modeling, simulation, and prediction project that optimizes the use of U.S. Department of Energy (DOE) laboratory resources to meet the science needs of the nation and the mission needs of DOE.



KEEP UP TO DATE ON E3SM

E3SM publishes news, feature stories and technical information on its website. The E3SM project also publishes *Floating Points*, a quarterly email newsletter. Follow the links below to get to know more about E3SM and to subscribe to E3SM's newsletter.

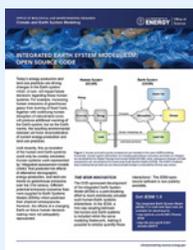


- Subscribe to our newsletter by emailing your contact information to listserv@listserv.llnl.gov with “**subscribe e3sm-news**” in the body of the email
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- Check out our most recent publications: <http://bit.ly/E3SMPublications>
- Review our research highlights: <http://bit.ly/E3SMHighlights>

The E3SM project is continually expanding its library of technical information, software background and code information. These technical highlights may be downloaded at https://e3sm.org/publications/technical_highlights/. This listing also includes recent Workshop Reports with links.



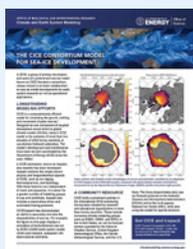
MPAS Framework:
A Flexible
Foundation for
Next-Generation
Earth System
Model Components



Integrated Earth
System Model
(iESM) Open
Source Code



The Community
Ocean Vertical
Mixing (CVMix)
Project



The CICE
Consortium
Model for Sea-Ice
Development



BISICLES:
Adaptive Mesh
Refinement for
Ice Sheets



The Land Ice
Verification and
Validation Toolkit
(LIVVkit)



Icepack: Essential
Physics for Sea Ice
Models



The NetCDF
Operators (NCO):
Automatic
Remapping
of Gridded
Geoscience Data



Analyzing Ocean
Mixing at Exascale:
Lagrangian, In
Situ, Global,
High-Performance
Particle Tracking
(LIGHT)



Workshop on the
Initialization of
High-Resolution
Earth System
Models (April 2018)

<https://bit.ly/2DYBLOF>



Report of the
Second ARTMIP
Workshop
(April 2018)

<https://bit.ly/2KRXngB>