E3SM Project Resources, Policies and Procedures

Renata McCoy,

E3SM Project Engineer

E3SM Information Resources

- Ecosystem Projects and Internal Information
  - E3SM Documentation Space on Confluence
    - Model Development
    - Model, Data, Tools Documentation
    - Project Reporting and Tracking
    - Project Procedures and Policies
- Public Information
  - E3SM Public Website http://e3sm.org
  - E3SM Quarterly Newsletter

E3SM Project Documentation

- "E3SM Documentation" confluence space
  - Recently reorganized, all documentation in one place
  - All new documentation should be developed in this space
  - Accessible to Collaborators on ecosystem project
  - https://acme-climate.atlassian.net/wiki/spaces/ED/

E3SM Documentation- Confluence

Model User's Guide

- Installation Guide
- E3SM Input Data Servers
- Creating mapping and domain files
- How to create a new compset
- EAM User's Guide
- ELM User's Guide
- Make a new graph partition for mpas

Model Description

- Model versions and tags
- Grids
- Compsets
- E3SM Atmosphere Model (EAM)
- Coupler
- V0.0 Documentation

Simulations

- Request Computational Resources
- Checklist before Submitting a Run
- Simulation Documentation Requirements
- Pre-v1

Development Guide

- Feature Freeze FAQ
- Bug/Problem Reporting
- Repository and Development
- Testing
- Debugging Help

Data and Analysis

- Generate, Regrid, and Split Climatologies (climo files) with ncclimo
- Regridding E3SM Data with ncremap
- Tropical Cyclones analysis with TempestExtremes
- How to run the PCMDI Metrics Package (PMP)
- Output Size
- Data Publication Process
- Checking files for CF compliance
- Data and File Format
- Publicly Available Data on ESGF

Available Platforms

- Computational Resources Policy
- Computational Allocation Awards
- Configuration Management
- Machine-specific Help
- Computational Resources
- Computational Proposals

Files and Catalogs

- How-to articles
- Lists of File lists

Project Management

- Policies
- Planning and Reporting
- Highlights, Publications, Publicity
- All-Hands Presentations, Tutorials
- Communications
- Jira Reports by Assignee
- E3SM Project Documents

E3SM Documentation- Confluence

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E3SM Documentation- Confluence

Project Management

Policies
- Governance
- Staffing
- Collaboration
- E3SM Acknowledgement
- Code, Data and Computational Policies and Support
- Data Sharing and Support Policy

Planning and Reporting
- Roadmapping - Quarterly, Yearly and Longer Term
- Bi-Weekly Reports from JIRA and their Schedule
- Quarterly Reports
- Reports on Metrics
- Highlights from Quarterly Reports
- Schedule Calendar - Reports, Plans, Due Dates

Highlights, Publications, Publicity
- Research Highlight Template and Process
- Technical Highlight Template and Process
- Publications Logging, Its Highlight and Process
- Publicity and Processes
- ACME Technical Highlights

All-Hands Presentations, Tutorials
- All-Hands Presentations and Their Process
- E3SM Project Tutorials
- Other Tutorials, Online Presentations etc. Sharing

Communications
- Email Lists
- Meetings and Meeting Calendar
- Gotomeeting
- Confluence
- Jira
- Slack: Chat for E3SM
- Public Website - e3sm.org
- Overleaf - Online LaTeX Editor

Jira Reports by Assignee
- Bi-Weekly Report on Epics by Assignee
- Bi-Weekly Report on Tasks by Assignee
- History of Bi-Weekly Reports from Epics by Assignee
- History of Bi-Weekly Reports from Tasks by Assignee
- Quarterly Reports on Epics by Assignee
- Quarterly Reports on Epics by Group
- Not Updated within Last 3 Weeks - Jira Issues by Assignee
- Updated within Last 3 Weeks - Jira Issues by Assignee

E3SM Project Documents
- E3SM Logos
- E3SM Phase 2 Templates
- E3SM Phase 2 Org Chart
- E3SM Strategic Plan
- E3SM Phase 2 Proposal
- Images and Movies for Public Website
- Visualization and Highlight Movies

E3SM Planning and Reporting

- E3SM projects assumes hierarchical, top down and agile planning.
- Starts with the very long term **Vision and Mission** that includes **Long Term Roadmap** and **Science Drivers** developed by E3SM Executive Committee and the E3SM Leadership Team.
- 10 year and 3 year roadmaps are developed based on those long term goals
- Detailed Yearly and Quarterly plans are developed by Core Groups and NGDs for their teams based on project's roadmaps
- All roadmaps are rebased periodically – agile planning
- Core Groups Quarterly Plans translate 1-to-1 to Jira Epics and Tasks
- The project tracks Jira on bi-weekly bases with reports from all core stuff
- Quarterly Reports from Core Groups every 3 months
- 6-Monthly Reports from NGDs every 6 months

Calendar Schedule

- Bi-Weekly Reports from tasks
- Bi-Weekly Reports from epics
- Quarterly Plan Core Gr.
- Yearly Plan - NGD
- Quarterly Report Core Gr.
- 6-Monthly Report NGD
- Quarterly Budget and Effort

2019

January

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2020

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Planning and Reporting Schedule

- **Quarterly Reports from Core Groups** are due every 3 months, on the second Thursday of the month, starting on April 11, 2019
- **6-Monthly Reports from NGD Groups** are due every 6 months, on the second Thursday of the month, starting on July 11, 2019
- **Quarterly Budget and Effort Reports from Lab POCs** are due every 3 months, on the second Tuesday of the month, starting on April 9th, 2019
- **Quarterly Plans from Core Groups** are due every 3 months, on the third Thursday of the month, starting on May 11th, 2019
- **Yearly Plans from NGDs** are due every 6 months, on the third Thursday of the month, starting on May 11th, 2019
  - – this is a sliding window yearly plan, so in May the plan for Jul-Jun is due, and in Nov a plan for Jan-Dec 2020.
- Schedule Calendar - Reports, Plans, Due Dates
- **Upcoming due dates:**
  - **Apr 9th** Budget and Effort Report from Lab POCs
  - **Apr 11th** Core Groups Quarterly Report due on the work performed in Jan – Mar 2019
  - **May 16th** the plans from Core Gr. and NGDs
    - Core Groups Quarterly Plan for Jul-Sep 2019,
    - NGD Yearly for Jul 2019 to Jun 2020.

Jira Bi-Weekly Reports

Core Groups:

- Bi-weekly Reports in Jira on Tasks and Epics are **mandatory**
- There are confluence pages set up to help everyone finding tasks
  1. Not Updated within Last 3 Weeks - Jira Issues by Assignee
  2. Updated within Last 3 Weeks - Jira Issues by Assignee

  Page 1: we would like NOT to see any task or epic on “Not updated…” page.
  Page 2: we would like to see **everyone** having task or epic on “Updated…” page.

- Group Leads / Epic Leads:
  - please check that all the current work is entered as a Jira epic or a tasks. There should not be work performed without a corresponding Jira task and epic.
- Due dates for the bi-weekly reports in confluence
  - Schedule Calendar - Reports, Plans, Due Dates.
  - There is a printable 2 year calendar there as well, check it up.

Jira Bi-Weekly Reports

E3SM Documentation

Space settings

SPACE SHORTCUTS

Add shortcut

PAGES

- Model User's Guide
- Model Description
- Simulations
- Development Guide
- Data and Analysis
- Available Platforms
- Files and Catalogs
- Project Management
  - Policies
  - Planning and Reporting
  - Highlights, Publications, Publici
  - All-Hands Presentations, Tutori
  - Communications
  - Jira Reports by Assignee
    - Bi-Weekly Report on Epics b
    - Bi-Weekly Report on Tasks b
    - History of Bi-Weekly Report
    - History of Bi-Weekly Report
    - Quarterly Reports on Epics b
    - Quarterly Reports on Epics b
    - Not Updated within Last 3 W
    - Updated within Last 3 Week
- E3SM Project Documents

Bryce Harrop

Key	T	Summary	Assignee	Bi-weekly Report	Due	Status
EB-107		Fix mass conservation issues in CLUBB & GW	Bryce Harrop	2019-03-07: Have the pair of CESM releases with and without their fixes and have compiled the list of files with differences as well as each line that was changed. Not all changes will be needed for E3SM and there will be additional modifications needed for E3SM because of differences between the two models.	Mar 31, 2019	OPEN
EB-73		Verifier for CBGCv1 production simulations	Bryce Harrop	2019-03-14: ECA run_scripts were verified for atmosphere and general components. Happy Pi Day	Dec 31, 2018	OPEN
EB-14		Paper: analysis of BGC impacts on atmospheric dynamics	Bryce Harrop	2019-03-07: Started looking at rainfall climatologies for the different BGC experiments. Interesting nonlinear patterns over tropical rainy regions.	Sep 30, 2019	OPEN
EB-9		Implement, validate, and analyze a compset with prognostic CO2	Bryce Harrop	2019-03-07: Simulations running, though slowly because Edison is crowded.	Jun 30, 2019	OPEN
EW-17		Monsoon analysis	Bryce Harrop	2019-03-07: Manuscript submitted to JGR: Atmospheres	Nov 01, 2018	OPEN

5 issues Refresh

Charlie Zender

Key	T	Summary	Assignee	Bi-weekly Report	Due	Status
EI-52		Put CMIP6 data on CMIP6 grids	Charlie Zender	2019-03-14: No new development for CMIP6. Still no reports of problems with CMIP6 workflows despite heavy use. Will close this issue on 3/28 if all CMIP6 timeseries produced to date are deemed OK, and reopen later if problems are found subsequently.	Mar 31, 2019	IN PROGRESS
EI-26		Y1 NCO support	Charlie Zender	2019-03-14: Fix mpirun arguments for cooley so MPAS-Analysis can use MPI mode. Add stubs for TR quasi-equal area mode. Help Noel Keen with MWF mode. Install latest versions at ALCF, NERSC. Plan better parallelism granularity for climo background mode to remain competitive with xarray/dask on climos too big for background mode yet too small to justify waiting for multiple nodes.		IN PROGRESS
EI-109		NCO Regridder non-spherical triangle weight generation	Charlie Zender	03-04-2019: Henry has addressed issues with holes in intersection meshes, and wrapped (around the 0/180 meridian) points. Working on some corner cases, viewing grids in ParaView, and annotating intersection meshes with attributes.	Jun 30, 2019	IN PROGRESS
EI-110		Benchmark ncclimo for effects of compression/chunking	Charlie Zender	03-14-2019: Built netCDF development code with compression filter support. Trying to build Zstd filter first. Roundtripped questions to Unidata. They agreed to export test filters to install directory in future releases. Ran into link issues for Zstd.	Mar 31, 2018	OPEN

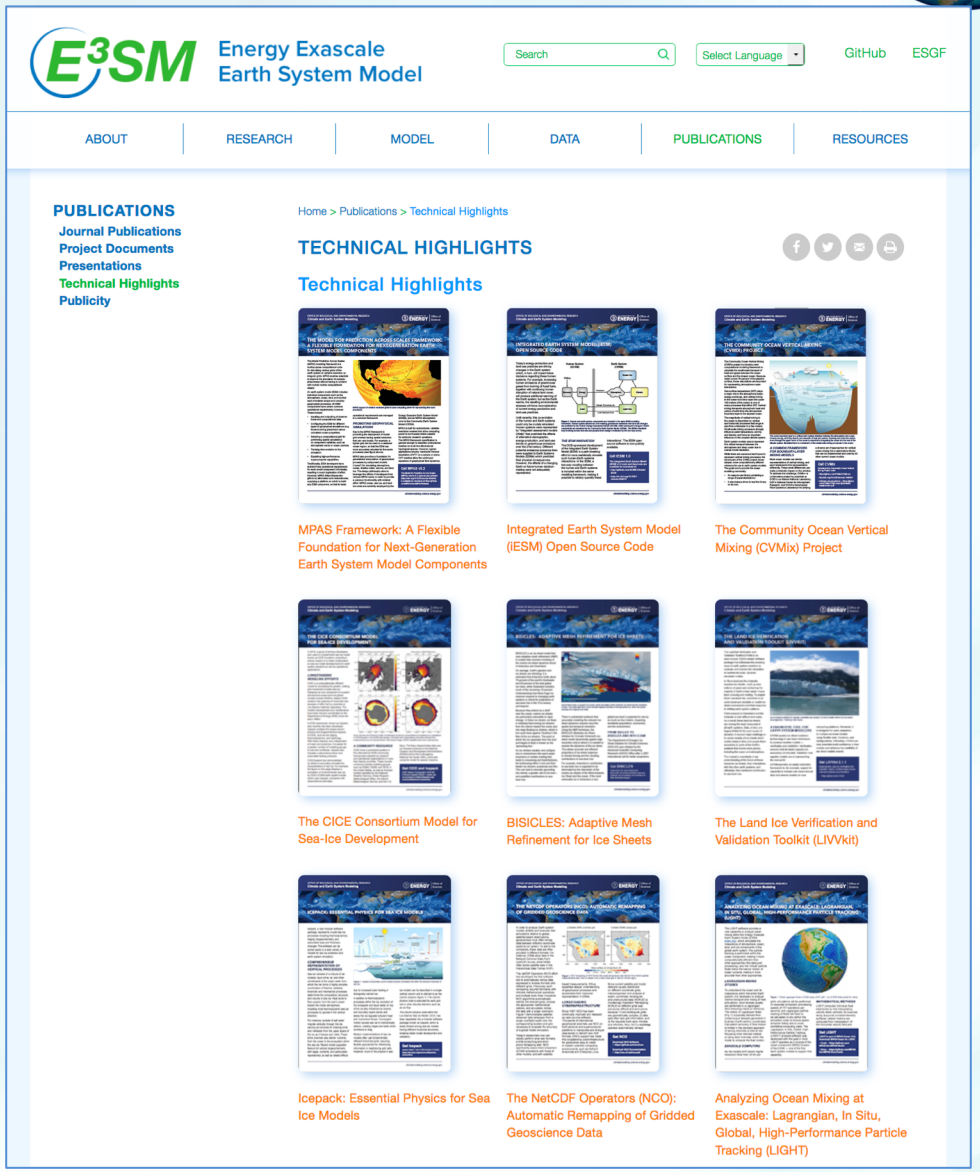
4 issues Refresh

Chengzhu (Jill) Zhang

Key	T	Summary	Assignee	Bi-weekly Report	Due	Status
EW-106		Add lat lon vector diags	Chengzhu Zhang	2018-02-28: Start new branch to add vectors onto lat-lon plots for wind, surface stress diagnostics. A plotting template done.		IN PROGRESS
EW-97		Adding area mean time series diagnostics	Chengzhu Zhang	2019-2-21: First working version of regional mean time series diags set with both driver and plotting script combined		IN PROGRESS
EI-140		Verify CMORized data for	Chengzhu	2019-03-14: will start progress when data are in place	Apr 12, 2019	OPEN

Highlights, Publications

- Important part of the quarterly and 6-monthly reports
- Publications published, submitted, in preparation and planned are important
- We require at least one highlight on science, publication or technical highlight on software development
- Technical highlight are developed with technical writer and formatter into a two page flyer



Public Website Updates

E3SM Energy Exascale Earth System Model

Search | Select Language | GitHub | ESGF

ABOUT | RESEARCH | MODEL | DATA | PUBLICATIONS | RESOURCES

FEATURE STORY

post from the DOE program

E3SM project works with released v1 model and output, while also preparing v2 model configurations >>

BER E3SM AWARDS ANNOUNCED

Thirteen new research projects to use or develop the Energy Exascale Earth System Model (E3SM, e3sm.org) received a cumulative total of $10 million in funding in 2018. >>

DOE and NOAA Issue Report

Participants at the Workshop on the Initialization of High-Resolution Earth System Models identify seven research priorities. >>

Status of E3SM Simulation

The E3SM project's scientific goals address three areas of importance to earth system research: water cycle, biogeochemistry, and cryosphere. >>

BRIEF

E3SM online training

E3SM is offering a series of prerecorded online E3SM training sessions that are designed for new >>

E3SM All-Hands

E3SM makes its all-hands presentations available to everyone on E3SM's YouTube channel >>

CAREER OPPORTUNITIES

Career Opportunities

Check current career openings in earth system sciences >>

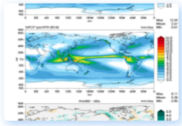
E3SM Computing Resources

In 2018, E3SM is expanding it's pool of computational resources with a new machine that will support >>

RELEASES

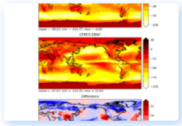
NCO's New Release Helps

NCO's New Release Helps CMIP6 Data Providers >>



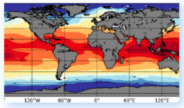
E3SM Diagnostics v1.5.0

E3SM Diagnostics v1.5.0. released. New features include: containerization and support for >>



A-Prime v1.2 Release

A-PRIME is a collection of scripts designed to provide E3SM model developers and analysts with a >>



MPAS-Analysis v1.0

The Model for Prediction Across Scales Analysis (MPAS-Analysis) developers announce the release of >>

E3SM Energy Exascale Earth System Model

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ABOUT | RESEARCH | MODEL | DATA | PUBLICATIONS | RESOURCES

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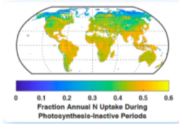
Home > About > News > Science & Technical Highlights

SCIENCE & TECHNICAL HIGHLIGHTS

February 2, 2019

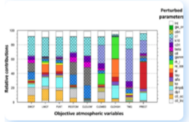


Land–Climate Feedbacks

Standard representation of nutrient constraints is shown to lead to large biases in GHG emissions ...

Read More

February 2, 2019

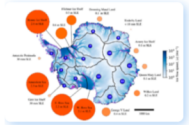


Quantifying Uncertainty in E3SM

Study of Parametric Sensitivity and Uncertainty Quantification in the E3SM Atmosphere Model ...

Read More

February 2, 2019

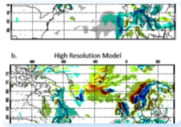


Antarctic Ice Shelf Collapse

Millennial-scale Vulnerability of the Antarctic Ice Sheet to Regional Ice Shelf Collapse ...

Read More

February 2, 2019

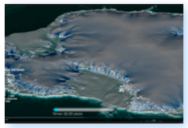


Model Resolution Sensitivity Study

Evaluation and understanding of E3SM resolution impacts on the simulation of North Atlantic Oscillation teleconnections ...

Read More

October 11, 2018



Antarctic Ice Sheet Simulations

Animations from the BISICLES model illustrate the vulnerability of the Antarctic Ice Sheet due solely to the loss of its ice shelves ...

Read More

Tutorials and Presentations

E3SM Energy Exascale Earth System Model

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ABOUT | RESEARCH | MODEL | DATA | PUBLICATIONS | RESOURCES

ABOUT
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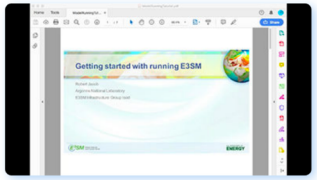
Home > About > Events > E3SM Tutorials

E3SM TUTORIALS

As the E3SM community grows with new ecosystem and other collaborative projects working with the E3SM model and data, it is important for E3SM to educate new users and provide tutorials on the model, the data, how to run/test the model and available tools.

Tutorials



Getting Started with E3SM Tutorial

MP4 Movie (on the E3SM YouTube Channel)

PDF of PowerPoint Presentation

This video and presentation provide an introduction to getting the E3SM v1 model, setting it up and running it at NERSC.

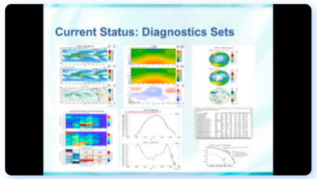
E3SM Model Output Data Tutorial

MP4 Movie (on the E3SM YouTube Channel)

PDF of PowerPoint Presentation

Text File of URLs and/or Commands for Copying and Pasting

This video gives a quick tour of the public E3SM model output data, where to find it, and how to access it. The following link will take you directly to the project page on the Livermore ESGF node (https://esgf-node.llnl.gov/projects/e3sm/), and this link will take you to the setup instructions for Globus for the fastest download (https://www.globus.org/SignIn#step=signup). LLNL release number: LLNL-MI-765020.



E3SM Diagnostics Package Tutorial

MP4 Movie (on the E3SM YouTube Channel)

PDF of PowerPoint Presentation

This video and presentation provide a brief introduction to the E3SM Diagnostics Package (e3sm_diags) and a quick-start guide for using the package to analyze E3SM model output. LLNL release number: LLNL-MI-766726.

E3SM Energy Exascale Earth System Model

Search | Select Language | GitHub | ESGF

ABOUT | RESEARCH | MODEL | DATA | PUBLICATIONS | RESOURCES

ABOUT
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ALL-HANDS PRESENTATIONS

All-Hands Presentation: Feb. 21, 2019

Improving the Representation of River Processes in E3SM

by Tian Zhou

PDF of Presentation

MP4 Movie (on the E3SM YouTube Channel)

Coupled BGC Webinar: Jan. 22, 2019

Updates to the Crop Model in ELM: Roots, Planting, and Future Directions

by Beth Drewniak

PDF of Presentation

MP4 Movie (on the E3SM YouTube Channel)

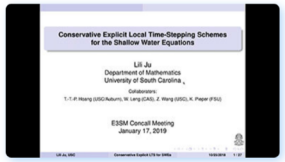
All-Hands Presentation: Jan. 17, 2019

Towards Efficient Time-stepping Methods for Ocean Modeling with Highly Nonuniform Grids – Talk 1 of 6 (Introduction)

by Max Grunzburger

PDF of Presentation

MP4 Movie (on the E3SM YouTube Channel)



All-Hands Presentation: Jan. 17, 2019

Conservative Explicit Local Time-Stepping Schemes for the Shallow Water Equations – Talk 2 of 6

by Lili Ju

PDF of Presentation

MP4 Movie (on the E3SM YouTube Channel)

Code Review Process

- Required for all **answer changing code features** to be included in E3SM model code base
- Code Review consists:
  - Design Document
  - Verification
  - Performance
  - Validation
- Create confluence pages with documentation
- Obtain approval for each step

Code Review Process

https://acme-climate.atlassian.net/wiki/spaces/Docs/pages/333 80% Search

ACME Documentation

- Overview
- Calendars
- Space settings

SPACE SHORTCUTS

- CIME Documentation

PAGES

- ACME Governance and Managemer
- ACME Proposals, Plans and Review
- ACME Collaborations
- ACME Communication/Productivity
- ACME GoToMeeting/GoToWebinar
- Confluence for ACME
- JIRA for E3SM
- Reports
- Code Review Process Implementati
  - New Features Dependencies Ov
  - Design Documents Overview
  - ACME V1.0 New Features
    - A1 Ozone Hole (Linoz-v2)
      - A1 Ozone Hole: Design D
      - A1 Ozone Hole: Verificat
      - A1 Ozone Hole: Perform
      - A1 Ozone Hole: Validatic
    - A3 CLUBB MG2
    - A4 UNICON
    - A5 Polar Mods
    - A8 Improvements to Aeroso
    - A9 Interactions With Surfac
    - A11 COSP
    - A10 RRM

A1 Ozone Hole (Linoz-v2)

+2 Created by Philip Cameron-Smith
Last updated Sep 10, 2018

This page is a main, parent documentation page for this feature. The tables below provide links to all related documentation on this feature.
› The page consists of two tables... Click here to read more about the tables...

Dependencies Table for this feature

1.Design Doc	A1 Ozone Hole: Design Document
2.Owner	@Philip Cameron-Smith
3.PR Ready	December
4.Blocked By#	None
5.Affects #	Vertical resolution; MAM4.
6.Issued PR	01 Nov 2015
7.PR Owner	@Susannah Burrows
8.Integrated	13 Jan 2016
9.Hash/Tag	#406
Git Branch	cameronsmith1/atm/Ozone-hole-Linoz-v2

Checklist for the Code Review Process for this feature

Action Required	Assignee - Task Owner	Link	Done ?	Done Date	Approved?	Approver	Approved Date	Notes
Phase 1 - Component Level Development and Testing								
Design Document	@Philip Cameron-Smith	A1 Ozone Hole: Design Document	✔	14 Sep 2015	✔	@Shaocheng Xie	07 Oct 2015	
Verification and Unit Tests	@Philip Cameron-Smith	A1 Ozone Hole: Verification Phase 1	✔	16 Sep 2015	✔	@Phil Rasch	01 Nov 2015	
Performance Assessment	@Philip Cameron-Smith	A1 Ozone Hole: Performance Phase 1	✔	16 Sep 2015	✔	@Shaocheng Xie	01 Nov 2015	
Validation Tests	@Philip Cameron-Smith	A1 Ozone Hole: Validation Phase 1	✔	30 Oct 2015	✔	@Shaocheng Xie	01 Nov 2015	
Issue Pull Request	@Philip Cameron-Smith	#406	✔	29 Oct 2015	✔	@Shaocheng Xie	01 Nov 2015	
PR Integrator	@Susannah Burrows	-		integrated date	-	-	-	-
Phase 2 - Coupled System Integration and Testing								
Phase 2 Process Doc			✘		✘			
Feature's Coupled Performance			✘		✘			
Feature's Coupled Validation			✘		✘			
Final Approval to part of ACME model			✘		-	-	-	-

Code Freeze

- Watch for code freeze deadlines
- They are being developed at this meeting in preparation for v2 release
- **Check the following pages after the meeting:**
- Code Release Process and Timeline
- https://acme-climate.atlassian.net/wiki/spaces/ED/pages/818282616/Code+Release+Process+and+Timeline
- V2 timeline
- https://acme-climate.atlassian.net/wiki/spaces/CNCL/pages/38502678/E3SM-v2.0+Timeline

Documentation

- We are developing guidelines and standards for
  - Code style and formatting
  - Code documentation
  - Model documentation
  - Output files – file names and metadata
  - Simulations documentation and provenance
  - Output data documentation on HPSS, ESGF

  - Check E3SM Documentation space for updates

Thank You