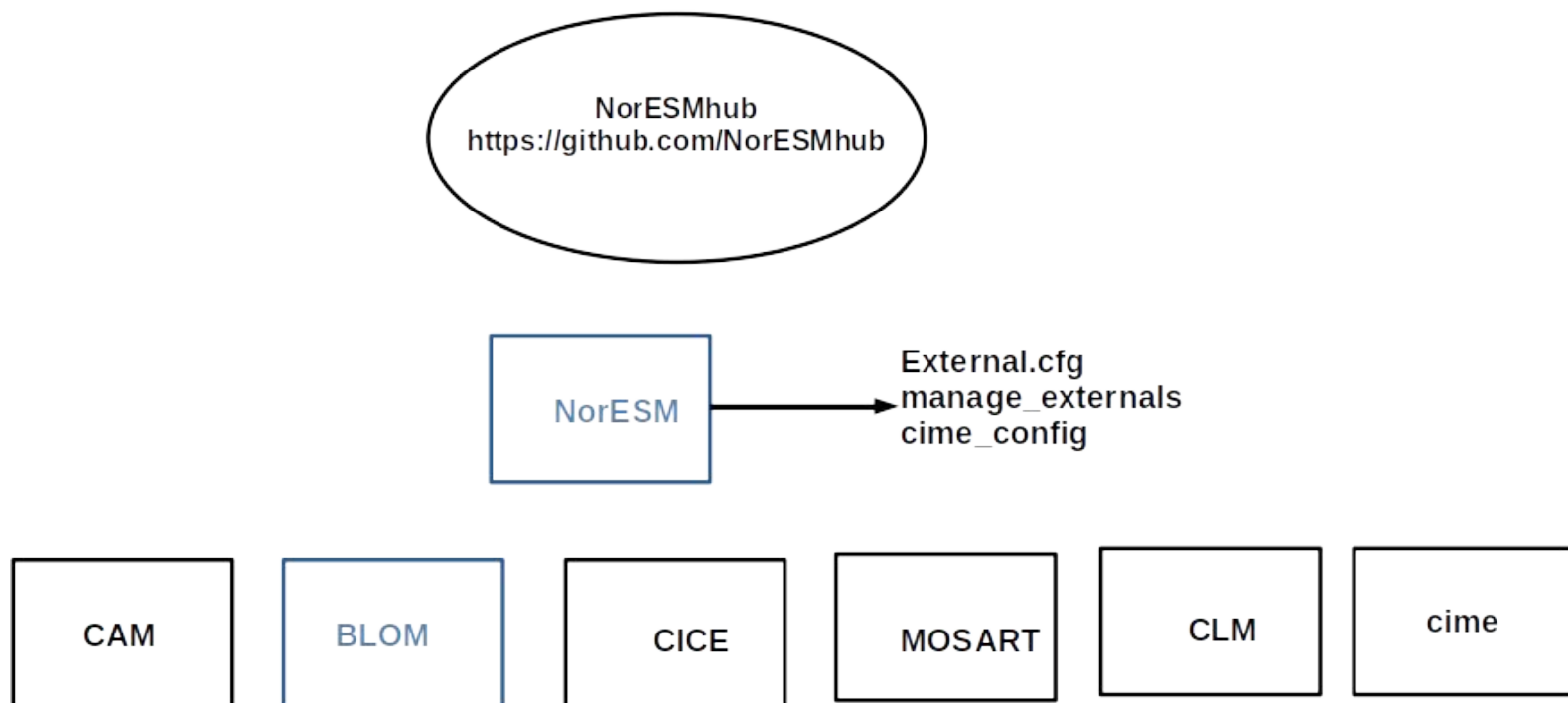


Development workflow

Contribute your own code to NorESM: basic steps

1. Create a user account on gitHub
<https://docs.github.com/en/get-started/signing-up-for-github/signing-up-for-a-new-github-account>
 - A basic account is sufficient. Note that all NorESM repositories are public by default.
2. Fork NorESM and/or a NorESM model component to your own account
3. Create an issue in the main repository describing the changes you want to make
 - Mainly used for discussions on severe bugs or feature changes, not so much for minor changes (e.g. documentation, small config changes)
4. Make changes in your fork repository
 - To minimize risk of code conflicts, do not make changes directly in branches that duplicate the main repository, but create “throw away” branches for your changes
5. Create a pull request to the main repository
6. Keep things in sync:
 - Remove your “throw away” branches after merging
 - Sync your fork with the main repository

NorESM git repositories



Repository in black are forked from CESM

Fork repository

Fork NorESM from gitHub

NorESMhub / NorESM

Unwatch 13 Unstar 9 Fork 38

<> Code Issues 21 Pull requests Actions Projects 1 Wiki Security Insights

master 4 branches 4 tags

Go to file Add file Code

MichaelSchulzMETNO

Update readme, to explain master meaning

5b39f24 20 days ago 871 commits

cime_config	corrected naming of covid compsets	2 months ago
doc	Update download_input.rst	2 months ago
manageExternals	Modified .gitignore and set execute permission to manageExternals/ch...	8 months ago
.gitignore	Ignore "doc/_build" folder.	8 months ago
Copyright-CESM.txt	Updated NorESM specific copyright and license in LICENSE.txt, referri...	5 months ago
Externals.cfg	updated Externals.cfg for release of NorESM2.0.2; removed Externals_t...	2 months ago
Externals_continuous_development.cfg	added Externals_continuous_development.cfg : refers to branches of dl...	2 months ago
LICENSE-CESM.txt	Updated NorESM specific copyright and license in LICENSE.txt, referri...	5 months ago
LICENSE.txt	Updated NorESM specific copyright and license in LICENSE.txt, referri...	5 months ago
README.md	Update readme, to explain master meaning	20 days ago
requirements.txt	Add requirement file for bibtext generation	8 months ago

README.md

About

Norwegian Earth System Model and Documentation

[noresm-docs.readthedocs.io/en/nor...](#)

noresm cesm norwegian

Readme

View license

Releases 4

release-noresm2.0.2 Latest

on Jul 19

+ 3 releases

Packages

No packages published

[Publish your first package](#)

Contributors 25

Create an issue : discussion forum for code changes

NorESMhub / NorESM ← in main repository

Unwatch 13 Unstar 9 Fork 38

<> Code **Issues 21** Pull requests Actions Projects 1 Wiki Security Insights

Label issues and pull requests for new contributors
Now, GitHub will help potential first-time contributors discover Issues labeled with **good first issue**
[Go to Labels](#) [Dismiss](#)

Filters Labels 10 Milestones 0 **New Issue**


<input type="checkbox"/>	21 Open ✓ 27 Closed	Author	Label	Projects	Milestones	Assignee	Sort
<input type="checkbox"/>	clcoagTend output looks bizarre #158 opened on Aug 13 by sarambl 3						
<input type="checkbox"/>	Copyright of documentation #152 opened on Jul 13 by mvhulten 1						
<input type="checkbox"/>	Misleading comment for suuported compsets #147 opened on Jul 1 by oyvindseland 2						
<input type="checkbox"/>	Writing a release note Next release #142 opened on Jun 23 by MichaelSchulzMETNO 1						
<input type="checkbox"/>	OMIP case examples: do we need '--run-unsupported' flag? Documentation #141 opened on Jun 21 by TomasTorsvik 5						

Create a fork : feature branch (highly recommended)

The screenshot shows the GitHub interface for the repository 'TomasTorsvik / NorESM-TTfork'. The repository is forked from 'NorESMhub/NorESM'. The top navigation bar includes links for Code, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The repository header shows 'master' as the current branch, with 4 branches and 4 tags. A red box highlights the 'Switch branches/tags' dialog, which has a search input containing 'my_new_feature'. Below the search input, there are tabs for 'Branches' and 'Tags', and a section titled 'Create branch: my_new_feature from' with a dropdown menu set to 'master'. A link 'View all branches' is also visible. The right sidebar contains the 'About' section, which describes the repository as 'Norwegian Earth System Model and Documentation' and provides a link to 'noresm-docs.readthedocs.io/en/nor...'. There are also links for 'Readme' and 'View license'.

- **Create a new feature branch before making any changes!**
 - Allows updating of root branch (e.g. “master”) without interfering with your own work
- Apply your changes in the feature branch, either directly in the gitHub fork or your local clone of the fork

Review changes : from fork

 **TomasTorsvik / NorESM-TTfork**


forked from [NorESMhub/NorESM](#)


Watch 0


Star 0


Fork 38


<> Code


 Pull requests


 Actions


 Projects

 Wiki


 Security


 Insights


 Settings

 **my_new_feature** had recent pushes less than a minute ago

Compare & pull request

 my_new_feature

 5 branches


 4 tags


Go to file


Add file

Code


This branch is 1 commit ahead, 1 commit behind NorESMhub:master.

 Pull request

 Compare


 **TomasTorsvik** Update README.md ...

6afcffb 1 minute ago 871 commits

 clme_config

corrected naming of covid compsets

2 months ago

 doc

Update download_Input.rst

2 months ago

About

Norwegian Earth System Model and Documentation

[noresm-docs.readthedocs.io/en/nor...](#)

Readme

View license

Releases

4 tags

Review changes : from “Network”

NorESMhub / **NorESM**

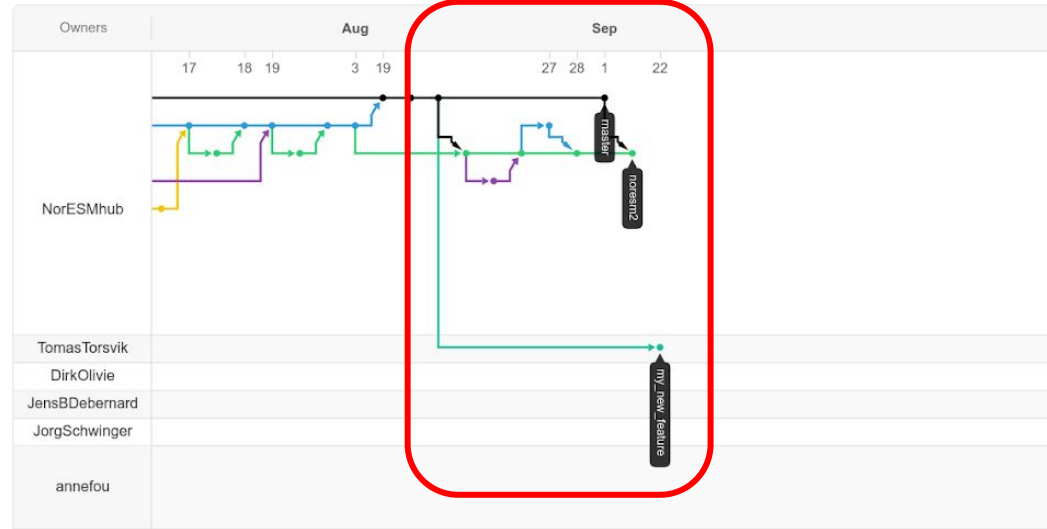
Unwatch 13 Unstar 9 Fork 38

<> Code ⓘ Issues 21 🔗 Pull requests ⏮ Actions 📁 Projects 1 📖 Wiki 🛡 Security 🔍 Insights

Pulse
Contributors
Community
Traffic
Commits
Code frequency
Dependency graph
Network
Forks

Network graph

Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.



Create a pull request

TomasTorsvik / NorESM-TTfork

forked from NorESMhub/NorESM

Watch 0

Star 0

Fork 38

<> Code

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

Many options, same result

my_new_feature had recent pushes less than a minute ago

Compare & pull request

my_new_feature

5 branches

4 tags

Go to file

Add file

Code

This branch is 1 commit ahead, 1 commit behind NorESMhub:master.

Pull request

Compare

TomasTorsvik Update README.md ...

6afcffb 1 minute ago

871 commits

clme_config

corrected naming of covid compsets

2 months ago

doc

Update download_input.rst

2 months ago

About

Norwegian Earth System Model and Documentation

noresm-docs.readthedocs.io/en/nor...

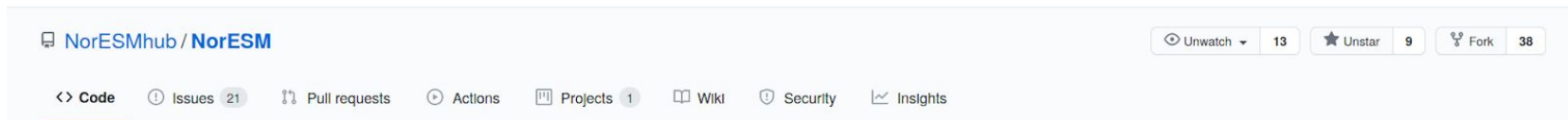
Readme

View license

Releases

4 tags

Create a pull request



Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

Destination repo and branch

Source repo and branch

base repository: NorESMhub/NorESM ▼ base: master ▼ ← head repository: TomasTorsvik/NorESM-TTfork ▼ compare: my_new_feature ▼

✓ **Able to merge.** These branches can be automatically merged.

Update README.md

Write Preview

H B I

Latest documentation version is now pointing to NorESM2.

Attach files by dragging & dropping, selecting or pasting them.

☒ Allow edits by maintainers

Create pull request ▼

Reviewers

Suggestions

MichaelSchulzM... [Request](#)

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Pull request : completed example

Replace MICOM with BLOM in documentation files. #118

Edit Open with ▾

 Merged TomasTorsvik merged 1 commit into NorESMhub:norasm2 from TomasTorsvik:replace_micom_with_blom on Jun 11

Conversation 4

Commits 1

Checks 0

Files changed 1

+2 -2



TomasTorsvik commented on Jun 11

Member 😊 ...

Some, but not all, instances of MICOM should be replaced by BLOM in the noersm2 documentation.



TomasTorsvik added **Documentation** **Next release** labels on Jun 11



TomasTorsvik requested review from YanchunHe and matsbn on Jun 11



TomasTorsvik self-assigned this on Jun 11



TomasTorsvik linked an Issue that may be closed by this pull request on Jun 11


Integration of BLOM in NorESM (instead of MICOM) #102

 Closed



matsbn marked this pull request as ready for review on Jun 11



 matsbn approved these changes on Jun 11

[View changes](#)

Reviewers



 YanchunHe




 matsbn



Assignees



 TomasTorsvik

Labels



Documentation

Next release

Projects



None yet

Milestone



No milestone

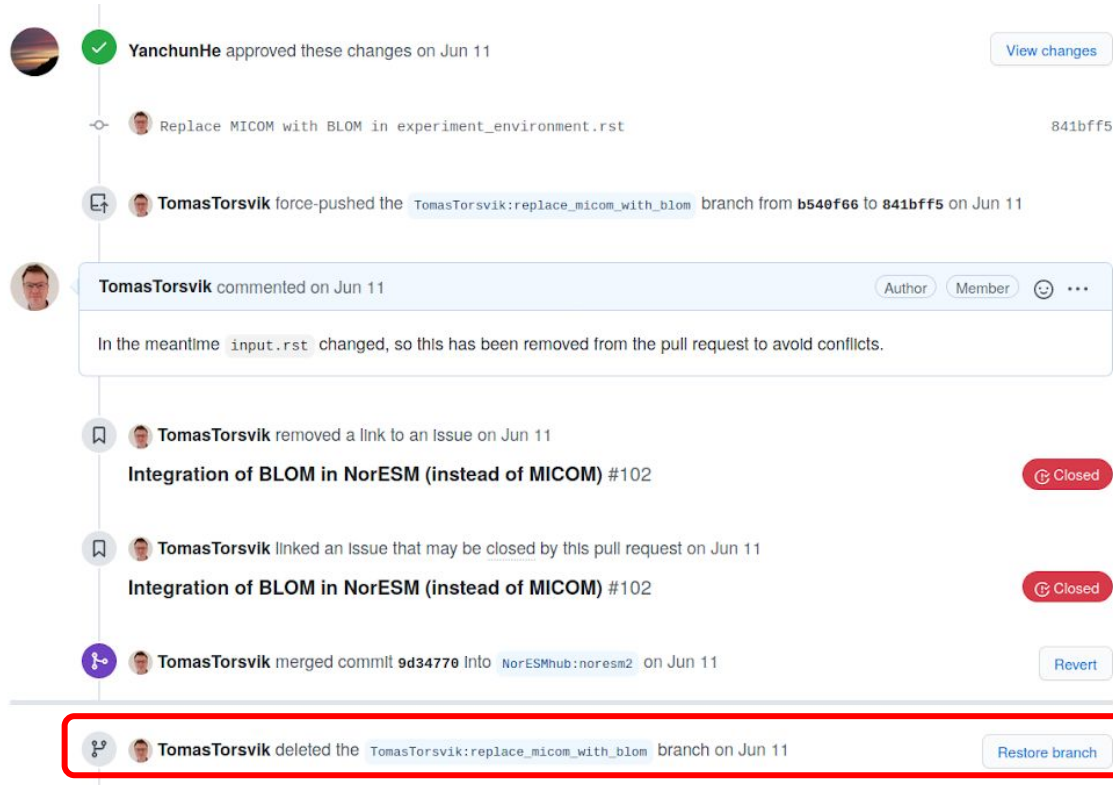
Linked issues



Successfully merging this pull request may close these issues.

 Integration of BLOM in NorESM (instead of ...

Pull request : completed example



The screenshot displays a vertical timeline of actions on a GitHub pull request. At the top, a green checkmark icon indicates that YanchunHe approved the changes on Jun 11, with a 'View changes' button to the right. Below this, a commit action is shown: 'Replace MICOM with BLOM in experiment_environment.rst' by a user, with commit hash 841bff5. This is followed by a 'force-push' action by TomasTorsvik, updating the 'TomasTorsvik:replace_micom_with_blom' branch from b540f66 to 841bff5 on Jun 11. A comment by TomasTorsvik from Jun 11 is shown in a light blue box, stating that 'input.rst' was changed and removed from the pull request to avoid conflicts. Below the comment, two actions by TomasTorsvik are listed: 'removed a link to an Issue' and 'linked an Issue' (both dated Jun 11), both related to 'Integration of BLOM in NorESM (instead of MICOM) #102', each with a 'Closed' button. The final action is 'merged commit 9d34776 into NorESMhub:norasm2' by TomasTorsvik on Jun 11, with a 'Revert' button. At the bottom, a red rectangle highlights the action 'deleted the TomasTorsvik:replace_micom_with_blom branch on Jun 11', which includes a 'Restore branch' button.

YanchunHe approved these changes on Jun 11 [View changes](#)

Replace MICOM with BLOM in experiment_environment.rst 841bff5

TomasTorsvik force-pushed the TomasTorsvik:replace_micom_with_blom branch from b540f66 to 841bff5 on Jun 11

TomasTorsvik commented on Jun 11 [Author](#) [Member](#) [😊](#) [⋮](#)

In the meantime `input.rst` changed, so this has been removed from the pull request to avoid conflicts.

TomasTorsvik removed a link to an Issue on Jun 11 [🔒 Closed](#)

Integration of BLOM in NorESM (instead of MICOM) #102

TomasTorsvik linked an Issue that may be closed by this pull request on Jun 11 [🔒 Closed](#)

Integration of BLOM in NorESM (instead of MICOM) #102

TomasTorsvik merged commit 9d34776 into NorESMhub:norasm2 on Jun 11 [Revert](#)

TomasTorsvik deleted the TomasTorsvik:replace_micom_with_blom branch on Jun 11 [Restore branch](#)

Delete “throw away” branch
In personal fork

Keep fork in sync with main repository

The screenshot shows a GitHub repository page for 'TomasTorsvik / BLOM-TTfork'. The repository is public and forked from 'NorESMhub/BLOM'. The top navigation bar includes links for Code, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the navigation bar, the repository name and status are shown: 'master' branch, 7 branches, and 4 tags. A message indicates 'This branch is 4 commits behind NorESMhub:master.' A red box highlights the 'Fetch upstream' button in the top right corner. A modal dialog is open, showing the 'Fetch and merge 4 upstream commits from NorESMhub:master' option. The dialog includes a 'Compare' button and a 'Fetch and merge' button, which is also highlighted with a red box. Below the modal, a list of commits is visible, including updates to CI workflows, forcing file changes, and merging new releases.

TomasTorsvik / BLOM-TTfork (Public)
forked from NorESMhub/BLOM

<> Code Pull requests Actions Projects Wiki Security Insights Settings

master 7 branches 4 tags

Go to file Add file Code

This branch is 4 commits behind NorESMhub:master. Contribute Fetch upstream

Fetch and merge 4 upstream commits from NorESMhub:master.
Keep your fork up-to-date with the upstream repository.
[Learn more](#)

Compare Fetch and merge

Commit	Message	Time
.github/workflows	Updated CI with testing	
ben02	ncep forcing file changed to acc	
bld	Merge new release with the fea	
cesm	Merge branch 'master' into feature-hamocc-vsls-upd	9 days ago
channel	Fix random number generation, OpenMP loops, and remove unused va...	7 months ago
cime_config	Merge remote-tracking branch 'upstream/master' into feature-cesm2.2_i...	6 days ago
doc	Added a structure for documentation to BLOM/IHAMOCC.	2 years ago
drivers	Merge branch 'master' into feature-hamocc-vsls-upd	9 days ago
fuk95	Corrected an OpenMP directive and added an Intel compiler flag that d...	6 months ago

The “Fetch and merge” option will bring the “master” branch in sync with the main repository ...

-- without conflicts or additional merge commits --

... if you have not made any changes in the “master” branch for your own fork.

Who to contact for each component?

- Atmosphere (CAM) – Steve Goldhaber (MET), Dirk Olivie (MET), Øyvind Seland (MET), Ada Gjermundsen (UiO)
- Land (CLM) – Matvey Debolskiy (UiO), Rosie Fisher (CICERO), Kjetil Aas (CICERO)
- Ocean physics (BLOM) – Mats Bentsen (NORCE), Tomas Torsvik (UiB)
- Ocean biogeochemistry (iHAMOCC) – Jörg Schwinger (NORCE), Jöran Maerz (UiB)
- Sea ice (CICE) – Jens Debernard (MET)
- Land ice (CISM) – Heiko Goelzer (NORCE), Michele Petrini (NORCE)
- River (MOSART) – Mariana Vertenstein (MET) (No dedicated work group)
- System coupler (MCT, NUOPC) – Mariana Vertenstein (MET)

Coordinating model development

The NorESM “tag team” is responsible for coordinating the work for creating new NorESM tags and code releases. Currently the team consists of Mats Bentsen (NORCE), Steve Goldhaber (MET), Mariana Vertenstein (MET), Matvey Debolskiy (UiO), Alok Gupta (NORCE) and Tomas Torsvik (UiB).

- Contact someone in the tag team if you plan to contribute code to the NorESM system, so we can advice how to do pull requests and merging.

Engagement with NorESM community

- Development meetings every Thursday @ 9:00 am via zoom (open for everyone)
 - Currently focused on NorESM3 development
- NorESM mail list (ines2-interim-all@met.no), contact Michael Schultz (MET) to get emails from this list
- Annual NorESM user workshop
- Events are announced through email list and on <https://www.noresm.org/>



Thanks for joining the
NorESM workshop 2026!