



Norwegian
Meteorological
Institute

Presentation and discussion on how to contribute to NorESM Part II : NorESM2 documentation

Ada Gjermundsen and Tomas Torsvik
Oslo, September 21–23, 2020

Contribution to documentation

The greatest contribution you can do today is to answer this survey:

<https://forms.gle/GDraAdbE14KppLWt6>

Mandatory

The NorESM2 documentation

We want to improve the documentation and therefore we need feedback

*Må fylles ut

What is your current position? *

- ☐ PhD student
- ☐ Master student
- ☐ Post Doc
- ☐ Scientific staff
- ☐ Technical staff
- ☐ Andre: _____

Other

How much modelling experience did you have prior to this workshop? *

1 2 3 4 5

Highly experienced ○ ○ ○ ○ ○ Little experienced

Contribution to documentation

You can use the same method as for code contributions

Contribute code to NorESM

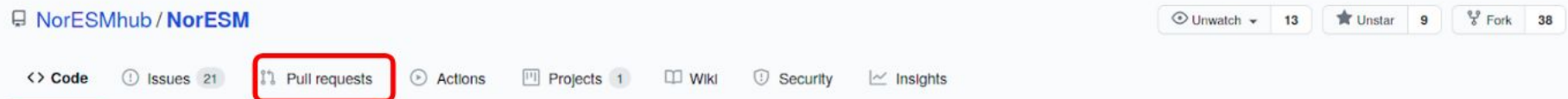
1. Create an issue to describe the problem and/or a suggested fix



2. Fork the NorESM repository (if you have not already done so)



3. Make changes in your local feature branch
4. Create a pull request to include your changes into the main repository



NorESM User Workshop 2020

Contribution to documentation

- You can edit the documentation online in your forked repository
- or you can clone your forked repository to edit the files locally on your machine/laptop using your favorite editor.
- After you have committed and pushed your contribution to your forked repository, you can create a pull request in order to include your changes in the main NorESM repository
- It is also possible to edit the documentation directly on GitHub (I will show you how) but this method is not recommended...
- or you can send me an email: adag@met.no

The documentation files are located in the NorESM repository

For contribution to:

- the NorESM2.0 documentation, please use the noresm2 branch
- development, please use the master branch

Remember to Fork the repository

The screenshot shows the GitHub repository page for NorESMhub/NorESM. The repository is currently on the 'noresm2' branch, which is 6 commits ahead of master. The file list shows the 'doc' folder highlighted with a red box. The 'Fork' button in the top right corner is also highlighted with a red box. A red arrow points from the text 'Remember to Fork the repository' to the 'Fork' button.

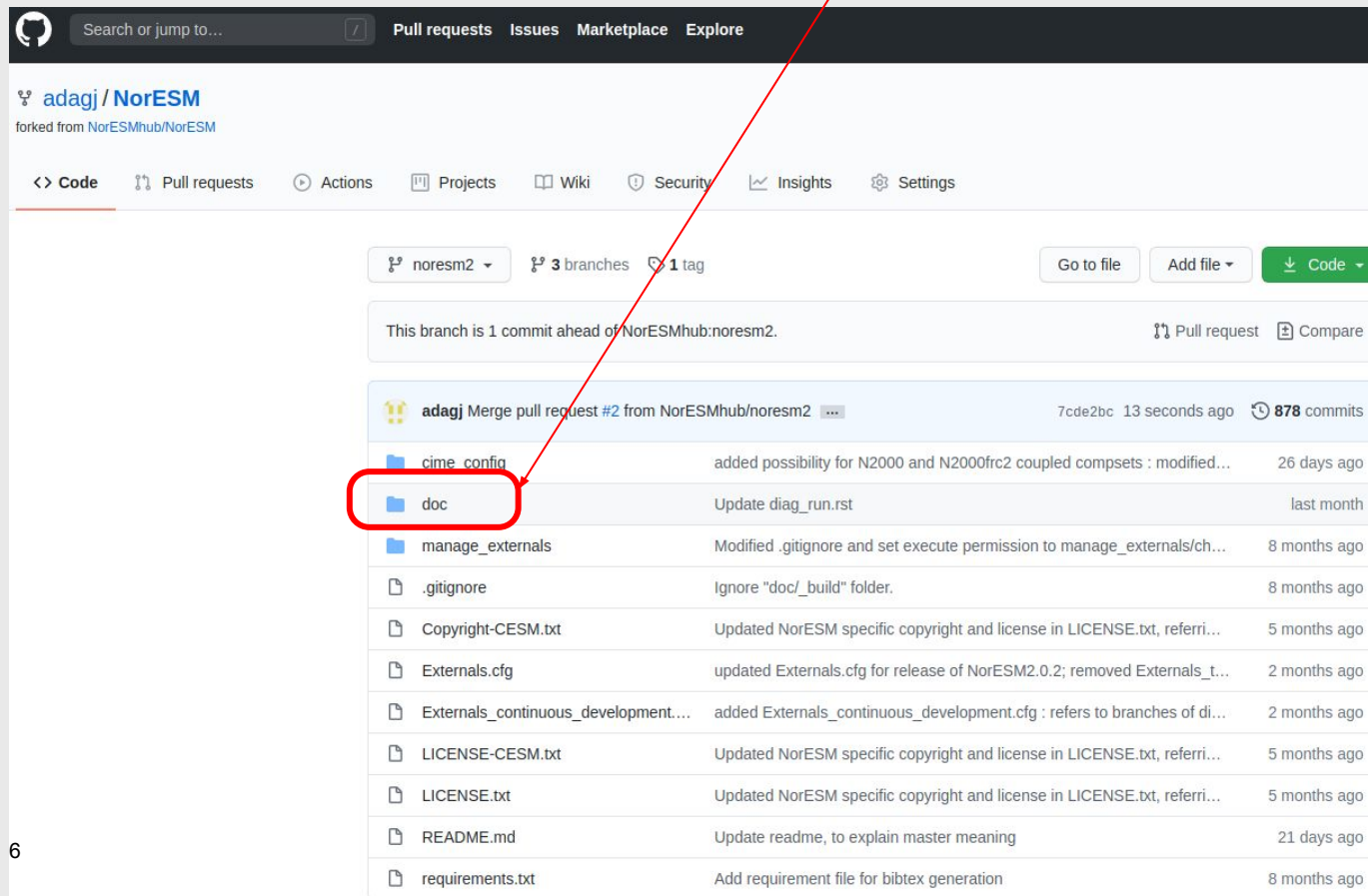
File	Commit Message	Time
cime_config	added possibility for N2000 and N2000frc2 coupled compsets : modified...	26 days ago
doc	Update diag_run.rst	last month
manageExternals	Modified .gitignore and set execute permission to manageExternals/ch...	8 months ago
.gitignore	Ignore "doc/_build" folder.	8 months 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...	added Externals_continuous_development.cfg : refers to branches of di...	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	21 days ago
requirements.txt	Add requirement file for bibtex generation	8 months ago

The documentation files are located in *doc*

For contribution to:

- the NorESM2.0 documentation, please use the noresm2 branch
- development, please use the master branch

You will find all the documentation files in the **doc** folder in your forked repository

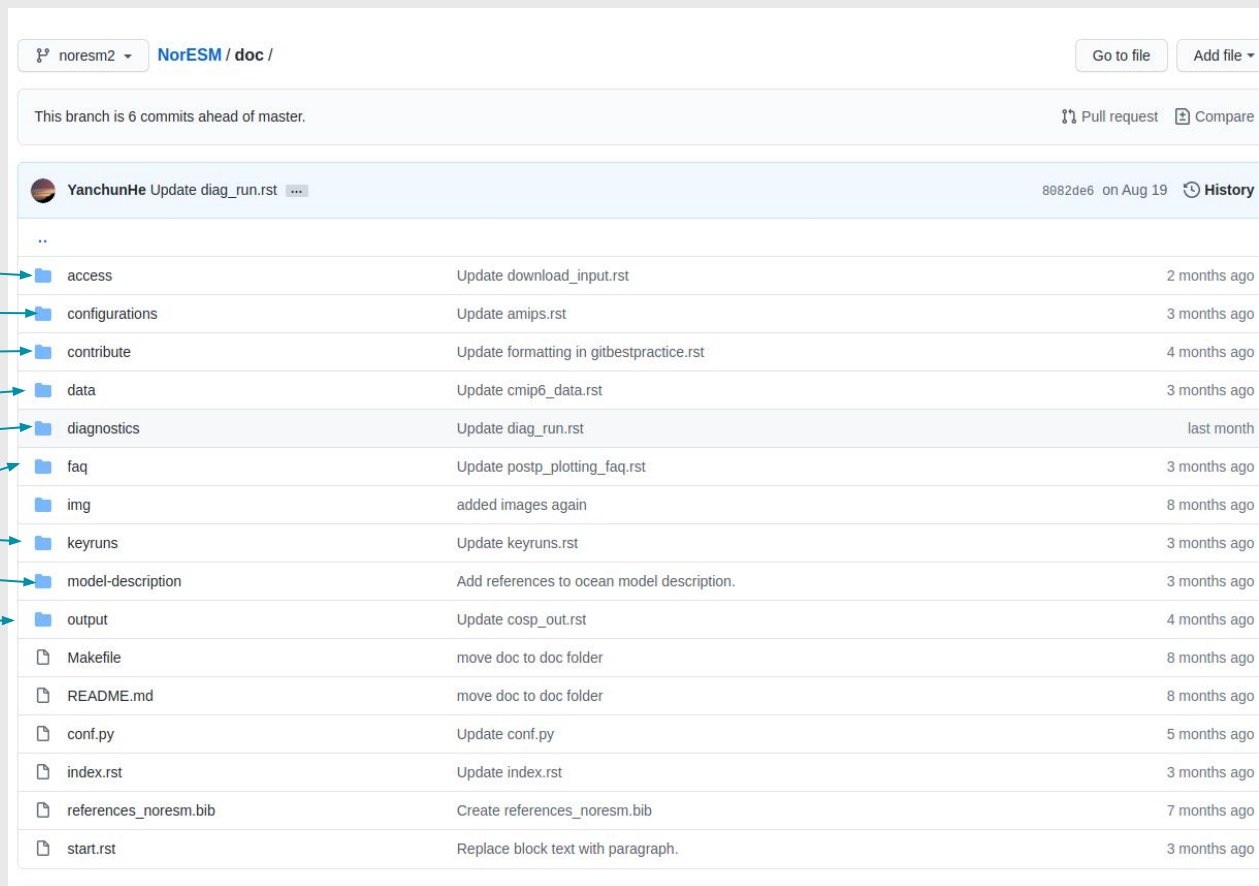


The screenshot shows the GitHub interface for the repository 'adagj / NorESM', which is forked from 'NorESMhub/NorESM'. The 'Code' tab is selected, displaying a list of files and folders. The 'doc' folder is highlighted with a red circle, and a red arrow points to it from the text above. The file list includes:

File/Folder	Description	Last Commit
cime_config	added possibility for N2000 and N2000frc2 coupled compsets : modified...	26 days ago
doc	Update diag_run.rst	last month
manageExternals	Modified .gitignore and set execute permission to manage_externals/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...	added Externals_continuous_development.cfg : refers to branches of di...	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	21 days ago
requirements.txt	Add requirement file for bibtext generation	8 months ago

The folder structure in NorESM/doc

- Downloading NorESM2
- Running NorESM2
- Contribute to NorESM2
- Access NorESM data
- NorESM2 diagnostics
- Frequently asked questions
- NorESM2 key simulations
- NorESM2 Model Description
- NorESM2 output

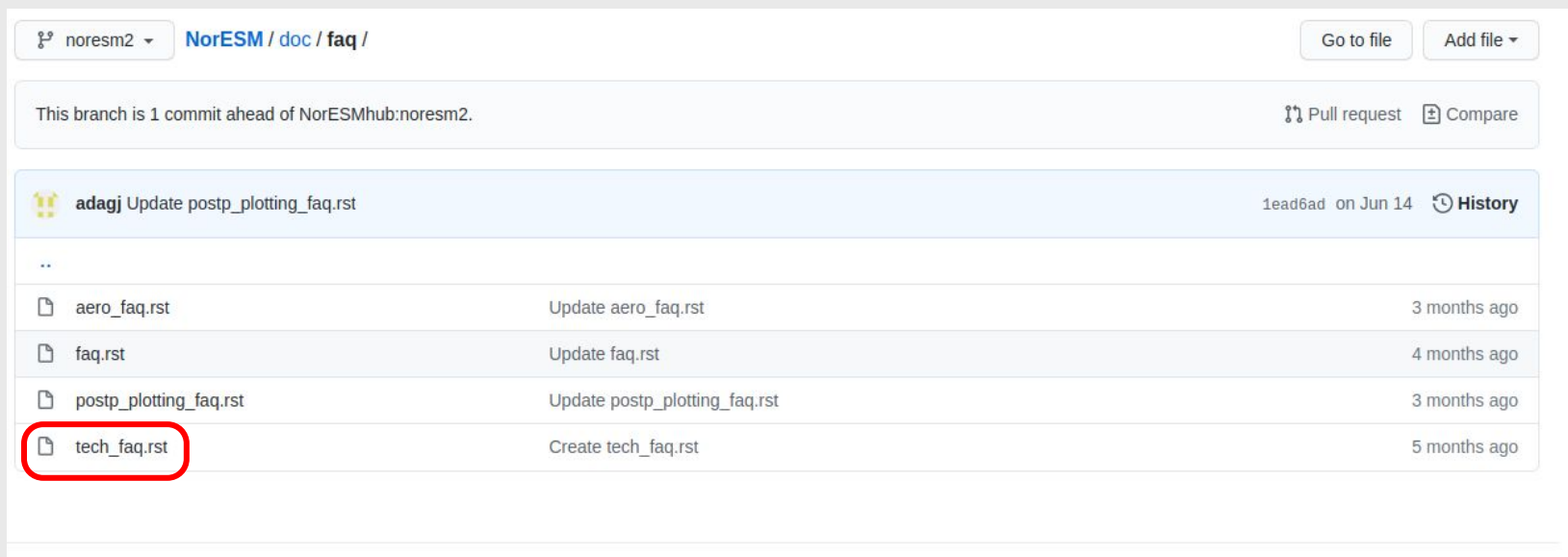


noresm2		NorESM / doc /	Go to file	Add file
This branch is 6 commits ahead of master.				
YanchunHe Update diag_run.rst 8882de6 on Aug 19 History				
..	access	Update download_input.rst	2 months ago	
	configurations	Update amips.rst	3 months ago	
	contribute	Update formatting in gitbestpractice.rst	4 months ago	
	data	Update cmip6_data.rst	3 months ago	
	diagnostics	Update diag_run.rst	last month	
	faq	Update postp_plotting_faq.rst	3 months ago	
	img	added images again	8 months ago	
	keyruns	Update keyruns.rst	3 months ago	
	model-description	Add references to ocean model description.	3 months ago	
	output	Update cosp_out.rst	4 months ago	
	Makefile	move doc to doc folder	8 months ago	
	README.md	move doc to doc folder	8 months ago	
	conf.py	Update conf.py	5 months ago	
	index.rst	Update index.rst	3 months ago	
	references_noresm.bib	Create references_noresm.bib	7 months ago	
	start.rst	Replace block text with paragraph.	3 months ago	

Contribution to documentation

You can update the documentation online

E.g. if we want to edit the Technical Frequently Asked Questions



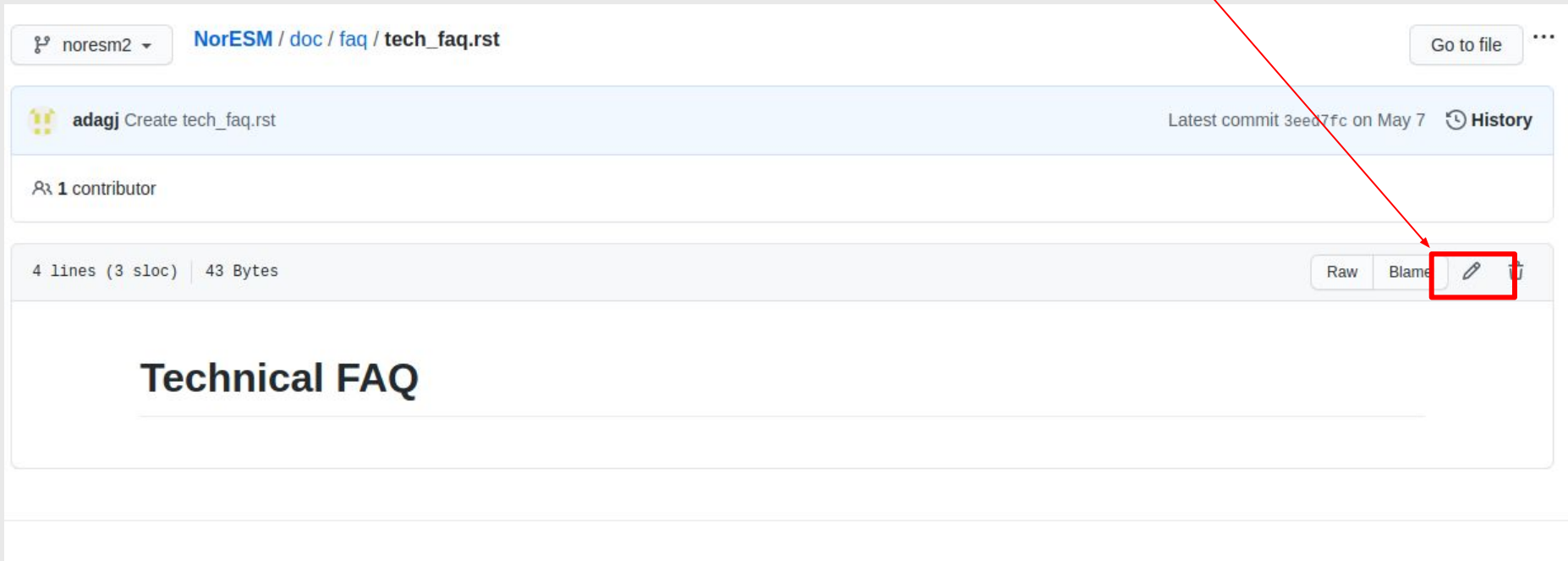
The screenshot shows a GitHub repository page for the 'noresm2' branch of the 'NorESM / doc / faq /' directory. The interface includes a header with the repository name and a 'Go to file' button. Below the header, a message states 'This branch is 1 commit ahead of NorESMhub:noresm2.' and there are links for 'Pull request' and 'Compare'. The main content area displays a commit by 'adagj' titled 'Update postp_plotting_faq.rst' from 1 day ago on June 14, with a 'History' link. Below the commit, a table lists the files changed in this commit:

File	Change	Time
..		
aero_faq.rst	Update aero_faq.rst	3 months ago
faq.rst	Update faq.rst	4 months ago
postp_plotting_faq.rst	Update postp_plotting_faq.rst	3 months ago
tech_faq.rst	Create tech_faq.rst	5 months ago

The file 'tech_faq.rst' is highlighted with a red rectangle in the original image.

Contribution to documentation

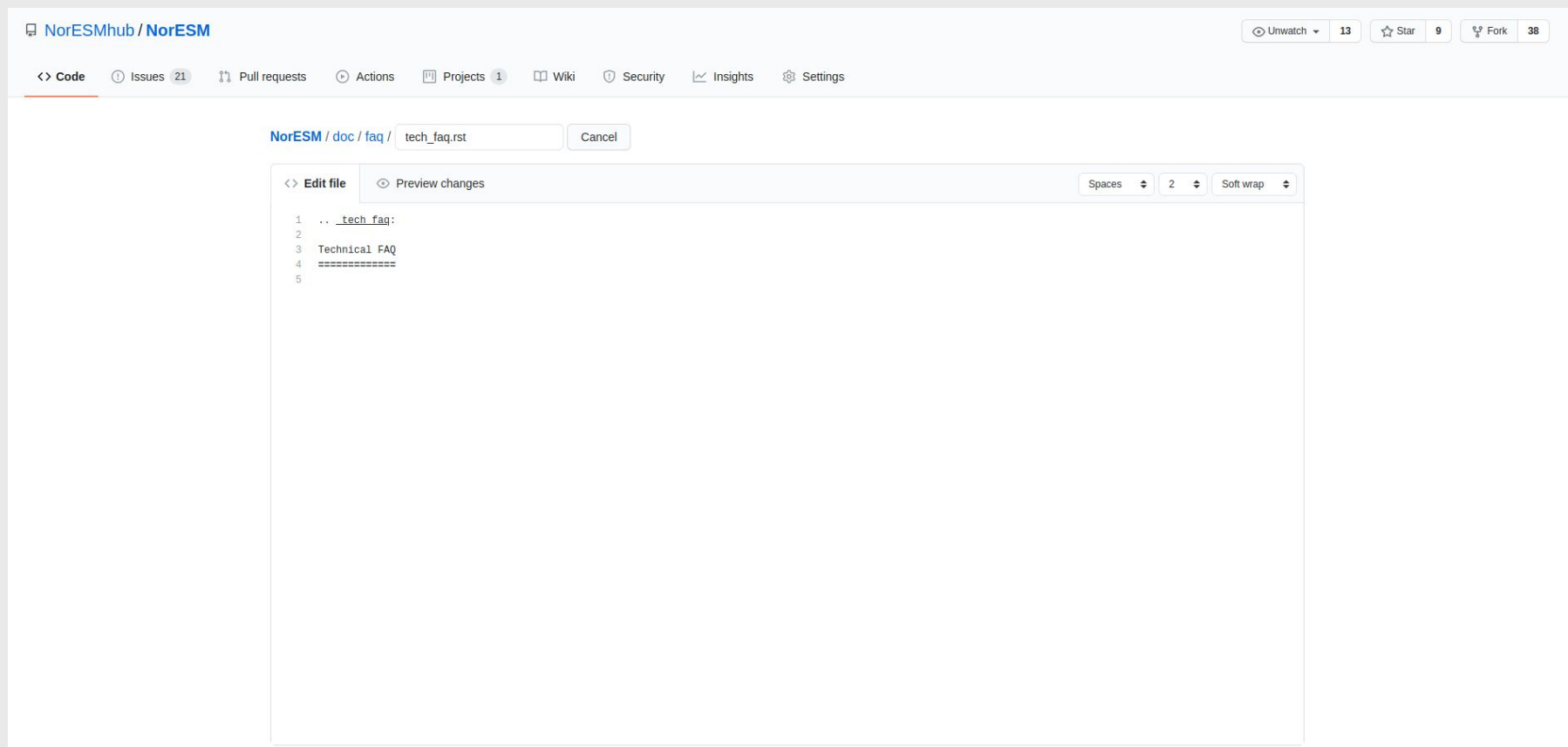
You can update the documentation online



The screenshot shows the GitHub interface for the file `tech_faq.rst` in the `NorESM / doc / faq` directory. The file was created by `adagj` and has 1 contributor. It contains 4 lines (3 sloc) and is 43 Bytes. The file content is titled **Technical FAQ**. The toolbar at the top right of the file content area includes buttons for `Raw`, `Blame`, and an `Edit` button (pencil icon), which is highlighted with a red box. A red arrow points from the text 'You can update the documentation online' to this `Edit` button.

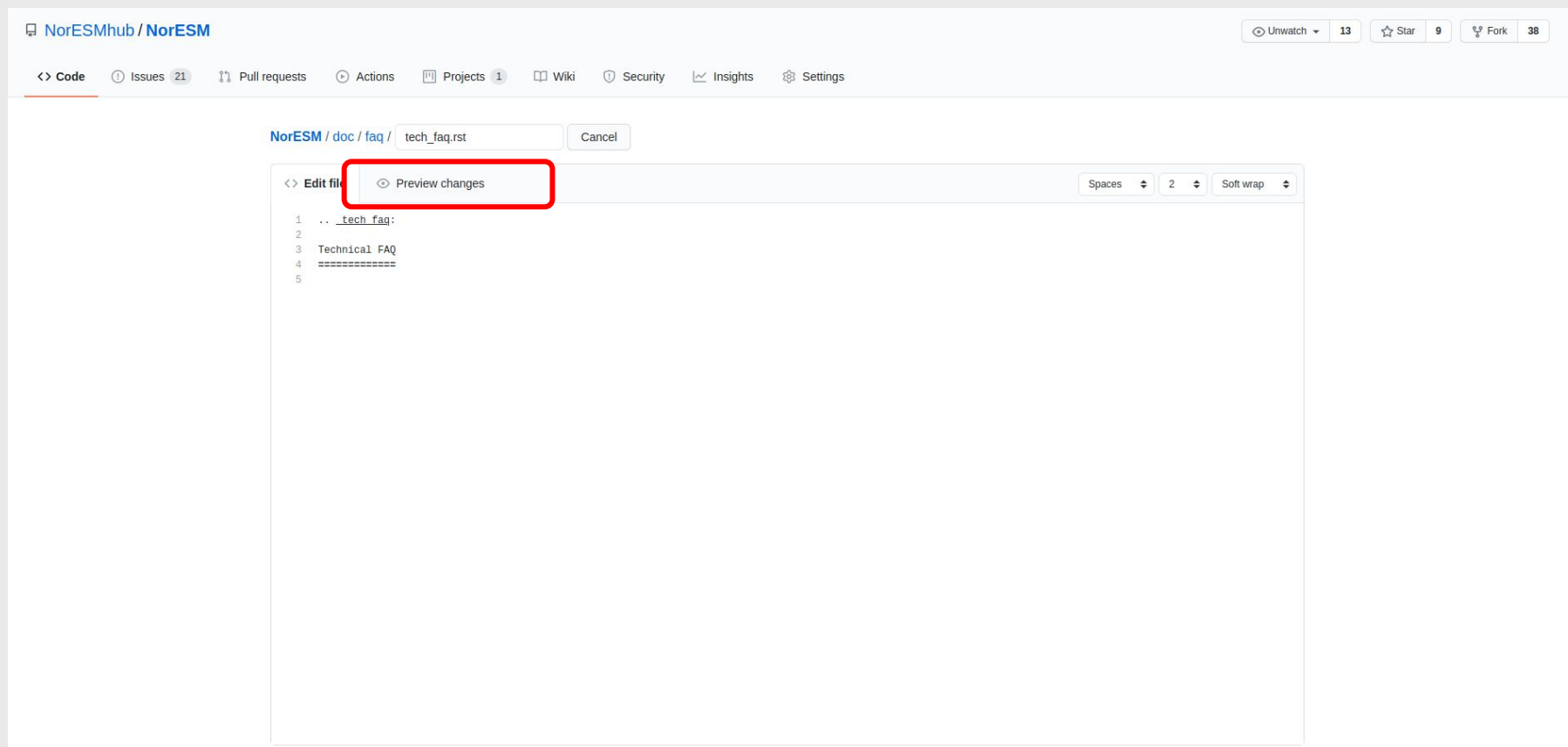
Contribution to documentation

- Add contribution in the .rst file.
- Please note that there is no syntax or spelling check when you edit the file in the web browser, so the potential for mistakes is much greater

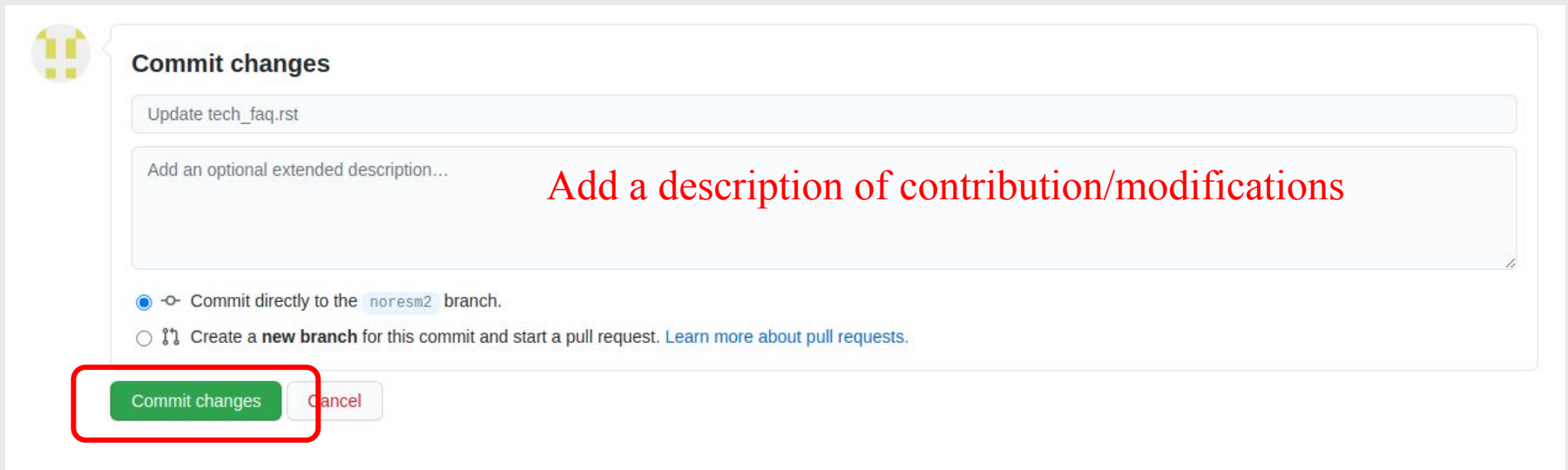


Contribution to documentation

- Add contribution in the .rst file.
- Please note that there is no syntax or spelling check when you edit the file in the web browser, so the potential for mistakes is much greater
- You can use *Preview changes* to see how the text appear before you commit



Contribution to documentation



Commit changes

Update tech_faq.rst

Add an optional extended description...

Add a description of contribution/modifications

☒ Commit directly to the `noresm2` branch.

☐ Create a **new branch** for this commit and start a pull request. [Learn more about pull requests.](#)

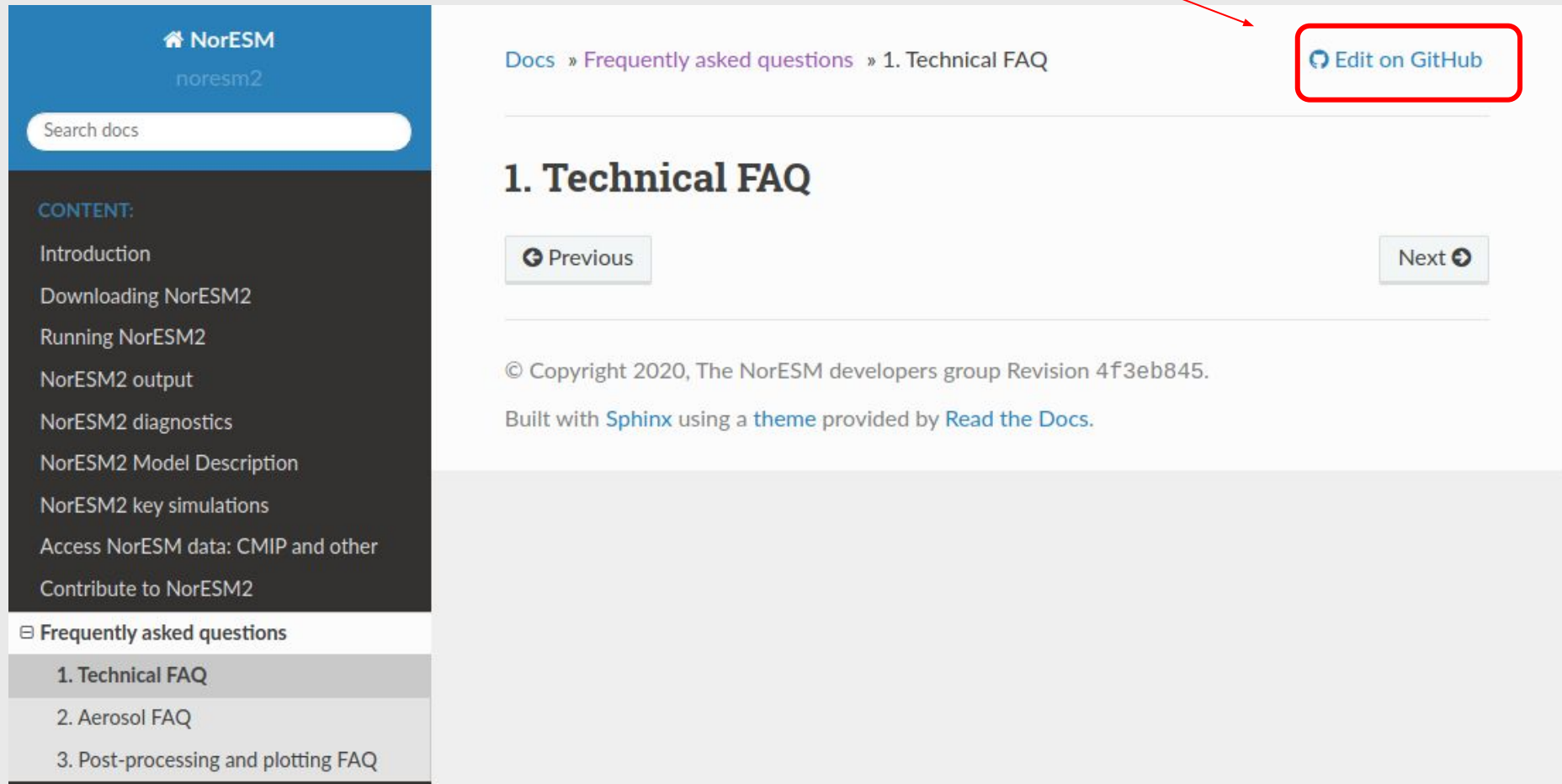
Commit changes Cancel

Commit your changes

After you have committed your contribution to your forked repository, you can create a pull request in order to include your changes in the main NorESM repository

Contribution to documentation

It is also possible to edit the documentation directly on GitHub, BUT do so from your own fork



The screenshot displays the NorESM documentation interface. On the left is a dark sidebar with the 'NorESM' logo and a search bar. Below the search bar is a 'CONTENT:' section listing various topics, with 'Frequently asked questions' expanded to show '1. Technical FAQ', '2. Aerosol FAQ', and '3. Post-processing and plotting FAQ'. The main content area on the right shows the breadcrumb 'Docs » Frequently asked questions » 1. Technical FAQ' and a red-bordered 'Edit on GitHub' button. Below the breadcrumb is the title '1. Technical FAQ' and navigation buttons for 'Previous' and 'Next'. At the bottom of the main area, it states '© Copyright 2020, The NorESM developers group Revision 4f3eb845.' and 'Built with Sphinx using a theme provided by Read the Docs.'

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<https://forms.gle/GDraAdbE14KppLWt6>

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*Må fylles ut

What is your current position? *

- ☐ PhD student
- ☐ Master student
- ☐ Post Doc
- ☐ Scientific staff
- ☐ Technical staff
- ☐ Andre: _____

Other

How much modelling experience did you have prior to this workshop? *

1 2 3 4 5

Highly experienced ○ ○ ○ ○ ○ Little experienced