01000101 01010011 01001101 ESM-Tools

Newsletter September 2018

Last update from: September 7, 2018

Announcements:
First release:
September 4, 2018
Next planned release:
February 5, 2019
Next planned code freeze:
January 21, - February 5, 2019
Next esm-tools Developer Meetings:
October 9, 2018
November 6, 2018
December 4, 2018
9:00-11:00, AWI, Building F, Glaskasten

User Support:

Dirk Barbi
+49(471)4831-1561
dirk.barbi@awi.de
F-411

Nadine Wieters
+49(471)4831-2603
nadine.wieters@awi.de
F-211

https://twitter.com/ToolsEsm

Alfred-Wegener-Institute
Bussestrasse 4
27570 Bremerhaven

esm-tools Release 1.0

Last Tuesday we were happy to announce the first release of the esm-tools. Thanks to all who came to celebrate this with coffee and cake.

After the presentation of the first release we had our monthly esm-tools developer meeting. We discussed new released features, known issues, bugfixes and set up a new wish list of features for the next upcoming release. To give all users of the esm-tools an update to our discussion, we created a monthly newsletter that will be send to all users after every esm-tools developer meeting. If you would like to participate in this discussion about new esm-tools features, you are kindly invited to the next esm-tools developer meeting on October 9 between 9-11 in the Glaskasten of building F.

New features and bug-fixes

- PISM, OIFS support
- Updated example runscripts for AWI-CM
- Postprocessing (AWI-CM)
- Easier branching off
- fesom.clock restart file fixed
- Automatic tests (work in progress)
- Copy esm-tools to scripts-folder
- Copy logs back
- Recom and Fesom-Recom support
- Jülich (JUWELS) support
- HLRN support (work in progress)
- User-defined functions
- General bugfixes

1 esm-tools@gitlab.dkrz

Each repository of the esm-tools has two branches. The default branch is 'release'. This is the branch that will come with 'git clone' and holds the latest stable version of the esm-tools. We highly recommend to all users to use this release branch when carrying out model experiments. We will only give full user support to this 'release' branch. But, since no programme code is bug-free, we need your help. If you encounter any errors and wrong behaviour please report to us.

Supported Branches

- release
  - Default branch
  - Latest stable release
  - Full user support
  - Update only at next planned release date
  - Bugfixes will be merged at any time
- develop
  - Branch to collect new features and bugfixes for next release
  - Testing
  - Work in progress
  - Limited developer support
  - Will be merged into release at next planned release date
- feature branches of developer
  - Development branches for new features and bugfixes
  - Non-permanent
  - No user support

---

2 Documentation

esm-usermanual

The esm-usermanual will be constantly improved also between release dates. The next step is to include more case examples and user scenarios. The current version of the usermanual can be found here:

https://gitlab.dkrz.de/esm-tools/esm-usermanual/blob/release/esm_usermanual.pdf

GitLab Wiki

For each esm-tools repository you find a Wiki page. Here you will find a How to ...? section and other FAQ and known issues. You are very much welcome to add new entries or answer questions from others. Thank you in advance for your participation. Here is the link to the esm-runscripts Wiki:

https://gitlab.dkrz.de/esm-tools/esm-runscripts/wikis/home

---

3 Pitfalls and known issues

· Wrong path to esm-runscripts

Make sure you have stated the correct path to the esm-runscripts folder in your runscript.

· Wrong branch

Check if the right branch is checked out:

```
> git branch
* release
```

---

4 Upcoming features

- PISM: compiling
- Get around esm-environment
- Iterative coupling with standalone models
- Description of path to pool of restart files Ollie/Mistral (if available) in esm-usermanual
- Monitoring (technical, physical, graphical) windspeed error, negative salinity, adjusting values and resubmit, grep log-file for missing restart files
- Automated tests
- missing fesom.clock when restart
- YAC, NEMO and REcOM support
- Iterative coupling as preprocessing to PISM