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ESM-Tools

Newsletter October 2018

Last update from: October 9, 2018

Dear users of the esm-tools,

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:

November 6, 2018

December 4, 2018

January 8, 2019

9:00-11:00, AWI, Building F,
Glaskasten

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in this second edition of the esm-tools newsletter we will give a short review of the ESM General Assembly in Leipzig. We will give you an update about new features, bug-fixes and upcoming features as well as the new wish-list of features as discussed in the last 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 November 6 between 9-11 in the Glaskasten of building F.

New webpage: www.esm-tools.net

Yup, the esm-tools have a webpage, built on the train to Leipzig. It is not much, but at least a way to make all our documents easily accessible.

Best wishes

The esm-tools developer team

ESM General Assembly, Leipzig, 2018

From 12-15 of September 2018, the first General Assembly Meeting of the ESM Project took place at UFZ Leipzig. It turned out that the esm-tools have the potential to become some sort of central hub within the project, providing the functionality to distribute the zoo of climate models and components currently in use at Helmholtz. The project partners were equally interested in the esm-interfaces, which will now become more important

in future developments.

It turned out that a number of institutes already consider getting their models into the esm-tools framework – a VILMA integration workshop with Volker Kleemann (GFZ) will take place at October 9. We are planning to organize a NEMO integration workshop with partners from HZG, GERICS and GEOMAR later this month. Furthermore, general interest and support were offered from FZJ and DRL.

1. New features and bug-fixes

- First monitoring functionality for Echam
- Iterative coupling from standalone runscripts
- New functionality to generate fesom.clock
- New naming of Fesom output files
- Reimplementation of calendar functions in Python
- Work started on a GUI for esm-master
- General bugfixes

2. Pitfalls and known issues

- MPIESM 1.2.01p1 is supported in esm-master, but currently not running with esm-runscripts
- Experiments are running slow on Mistral
- Compile error for AWI-CM on FZJ

3. Upcoming features

- PISM: compiling
- Get around esm-environment
- Description of path to pool of restart files Olle/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
- YAC, NEMO and REcOM support
- Iterative coupling as preprocessing to PISM
- Reimplementation of modify-namelist functionality
- Supported scenarios (e.g. HIST)
- Automated tests

A. 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 bug fixes 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

B. 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>