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ESM-Tools

Newsletter April 2020 – Release 4.0

Announcements:

Latest Releases:

Release 3: October 1, 2019

Release 4: April 28, 2020

Next planned major release:

October, 2020

Next ESM-Tools Developer

Meetings: 9:00-11:00

May 5, 2020

Video Conference

participation link

will be sent via e-mail

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📺 [ESMTools](#)

🐦 [@ToolsEsm](#)

Release 4.0

As announced, on April 28., we happily released version 4 of the ESM-Tools, giving our users access to quite a bit of new functionality, including

- **esm_versions:** An additional executable that installs with the rest of the packages, that lets you easily manage the ESM-Tools python packages. Just type

```
esm_versions check
```

to get a list of installed packages and versions, and

```
esm_versions upgrade [package]
```

to upgrade one or all models to the newest released version.

- **esm_database:** Another small and helpful executable that logs your work in local SQLite databases, together with a viewer / editor. Check it out:

```
esm_database [table]
```

- **esm_plugin_manager:** We developed a plugin management package that makes it easier for contributing developers to extend the python packages by coding own functions. These plugins can be integrated via a yaml configuration file, with no need to edit the ESM-Tools core.

Apart from new functionality, we extended the support for configurations for the following models and setups:

- **MPIOM standalone / MPIESM**
- **FOCI:** ECHAM-6.305p2 coupled to NEMO 3.6 (not merged in yet)
- **YAC:** Yet Another Coupler
- **esm-interfaces:** general interfaces for coupling, developed by Nadine Wieters

Shell Version Discontinued

The shell version of the ESM-Tools is, finally, declared out-dated in the sense that we will no longer support it. Please move to the python version now, which is more stable and user-friendly, and comes with a lot of documentation.

- We have paid attention to maintain backwards compatibility where possible, but some little things have changed. Your runscripts e.g. might not need to be adapted at all, but the way you call them does. Nothing to be afraid of though. It is all explained in the manual.
- A lot of models and setups already work, are tested, and you can find simple example runscripts. Please contact us to find out if your model has been set up already.
- A user workshop to support transitioning is in preparation, a previous attempt was canceled due to lack of participants.

esm-tools@github.com

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.

Documentation

User Manual

The old git project "esm-usermanual" is deprecated. You can find the latest user manual here:

https://esm-tools.readthedocs.io/_/downloads/en/latest/pdf/

Also, you can find the newest (and html-) version on our website:

<https://esm-tools.readthedocs.io/en/latest/index.html>

Other news

New colleague: Welcome, Miguel!

Paper: The paper describing the ESM-Tools has finally been submitted to GMD, and we will distribute the link once it is open for discussion.

Upcoming events related to ESM-Tools

5th Workshop on Coupling Technologies for Earth System Models: Postponed: 21-23 September 2020, Météo-France Campus, Toulouse, France

- esm-interface (oral presentation)
- ESM-Tools (oral presentation)

EGU2020 This time as virtual conference. Both esm-interfaces and esm-tools will present posters.

GitHub Wiki / FAQ

In principle, for each ESM-Tools repository you find a Wiki page. However, we kindly ask you to only use the one for the esm-tools project, so it becomes easier to navigate. You are very much welcome to add new entries or answer questions from others. Thank you in advance for your participation. We are currently porting the old entries to the new version, too. We also collect the most important questions and remarks in the user manual, which, starting from version 3.1, includes a FAQ section. Here is the link to the esm-tools Wiki:

https://github.com/esm-tools/esm_tools/wiki

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