

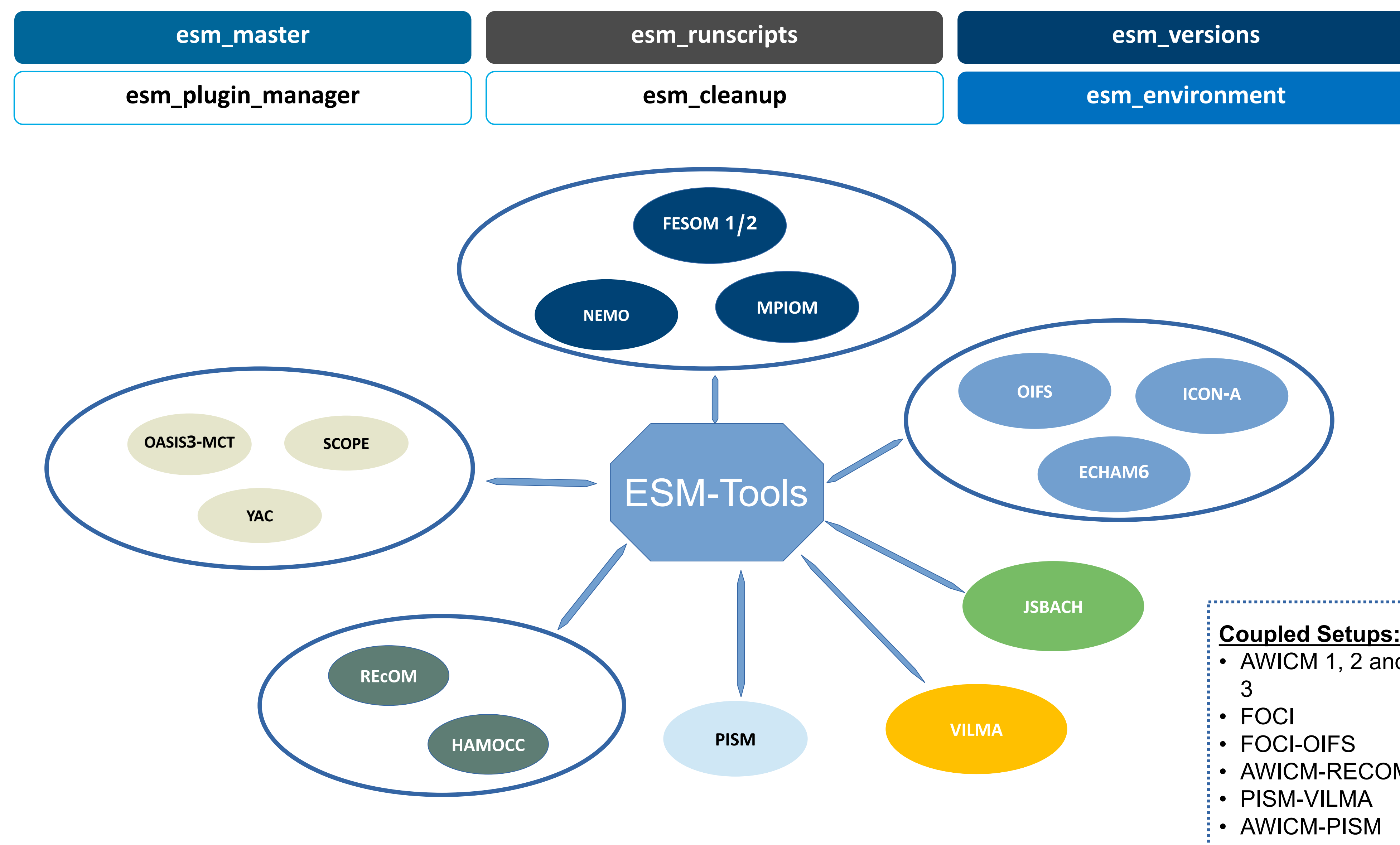
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ESM-Tools

Release 5.1

A Collection of Tools for the Download, Compiling, Execution and Coupling of different Models and Coupled Systems

ESM-Tools



ESM-Runscripts

- Collection of functions for unified runscripts to execute different models and coupled systems with only one tool
- Similar runscripts for all supported models
- Functionality is very modular and easy to extend

Supported Functionality

- Run models and coupled setups
- Run sanity checks
- Pre- and Postprocess Data
- Flexible Workflow Management
- Sort model in- and output for future reference
- Tarball and archive data
- Graphical and error monitoring
- Iterative coupling
- Database logging of activities

Basic usage and syntax

```
$> esm_runscripts awicm.run -e <experiment-id>
```

```
general:
  setup_name: "awicm"
  compute_time: "00:15:00"
  initial_date: "2000-01-01"
  final_date: "2000-02-29"
  base_dir: "/some/path/"
  nmonth: 1
  nyear: 0

awicm:
  version: "CMIP6"
  postprocessing: false
  scenario: "PI-CTRL"
  model_dir: "/path/to/modelcodes/awicm-CMIP6/"

fesom:
  pool_dir: "/path/to/FESOM/"
  mesh_dir: "/path/to/FESOM/meshes_default/core/"
  restart_rate: 1
  restart_unit: "m"
  restart_first: 1
  #further_reading:
  # - "fesom_output_control.yaml"
```

ESM-Master

Supported tasks

- download (`get-`)
- configure (`conf-`)
- clean (`clean-`)
- compile (`comp-`)
- install (`install-`)

Supported HPC systems

ollie@awi, mistral@dkrz, blogin@hlrn, glogin@hlrn, juwels@fzj, aleph@iccp

Example for AWI-CM 2.0

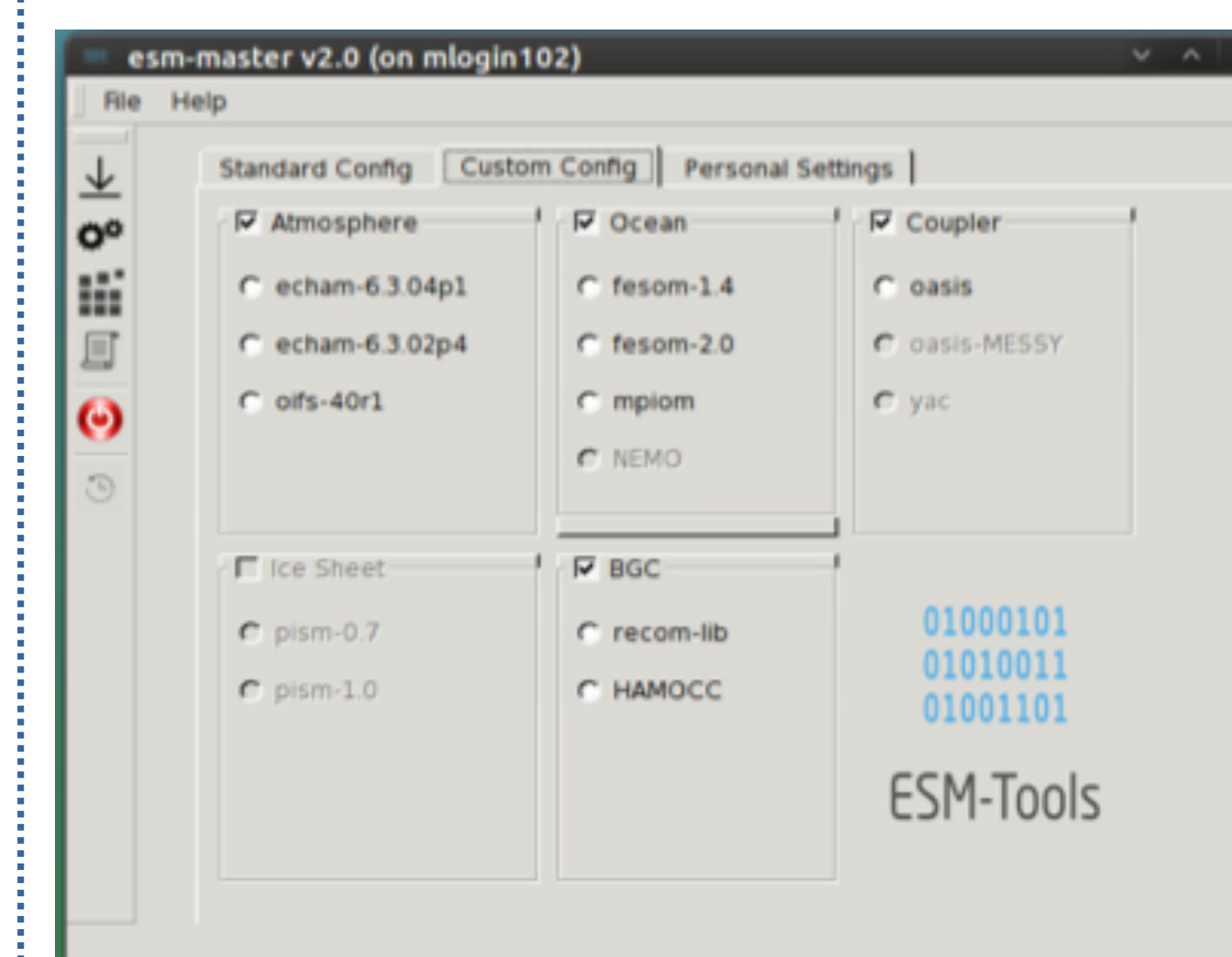
- Downloading the source code

```
$ esm_master get-awicm-2.0
```

- Compiling the source code

```
$ esm_master comp-awicm-2.0
```

GUI



Contact

<https://www.esm-tools.net>

Dirk.Barbi@awi.de (+49-471-4831-1561)

Miguel.Andres-Martinez@awi.de (+49-471-4831-2603)

Deniz.Ural@awi.de (+49-331-288-20178)

<https://github.com/esm-tools>

