ESM-Tools: A common infrastructure for modular coupled earth system modelling

**ESM-Tools**

- esm-master
- esm-runs scripts
- esm-versions
- esm-database
- esm-parser
- esm-plugin-manager

**ESM-Runscripts**

- Collection of python functions / yaml configs 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
- 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 <exp-id>
```

**Supported HPC systems**

ollie@awi, mistral@dkrz, blogin@hlrn, glogin@hlrn, jureca@fzj, juwels@fzj

**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
  ```

**Supported tasks**

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

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https://github.com/esm-tools
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