

The Norwegian Climate Prediction Model (NorCPM) repository

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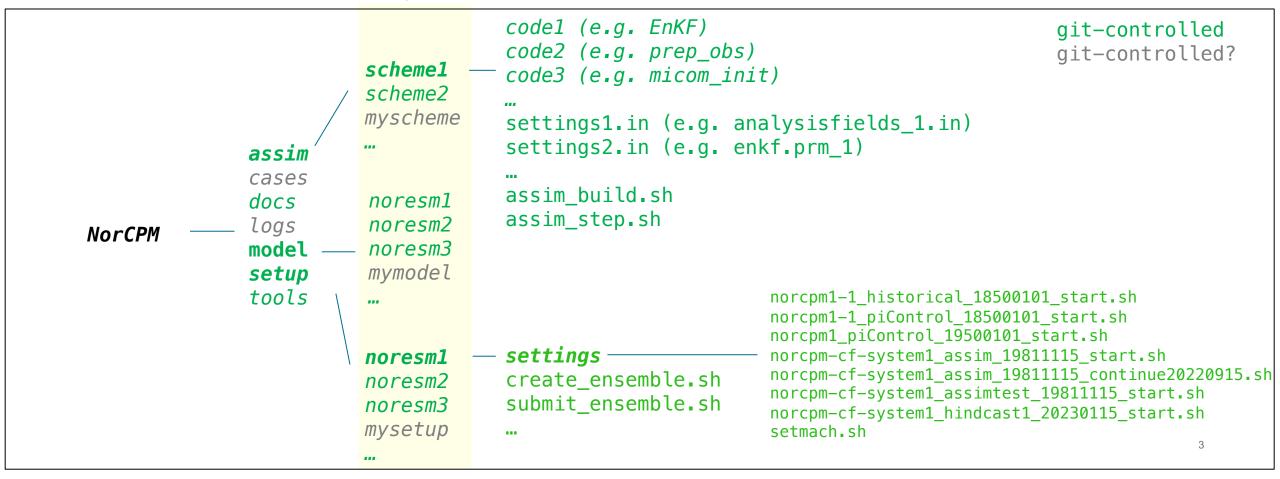


Features of NorCPM structure

- ➤ NorCPM (NorESM+assimilation) code, scripts and settings in single git-repository
- ➤ NorCPM (NorESM+assimilation) input data in single location on Betzy /cluster/shared/noresm/inputdata
- >Automated experiment customization via setting files and command line options
- ➤ Compilation of assimilation and model code on-the-fly for each experiment
- > Flexibility to add mulitple models and assimilation schemes
- ➤ Improved logging of building and running
- ➤ Documentation: basic user-guide and examples for running NorCPM

NorCPM

- allows multiple assimilation schemes and experiment setup environments multiple users can contribute to the same repository without interfering with each other's work
- flexible; structured and organized; fully version controlled
- suitable for use with NorESM1, NorESM2 and later versions



Tutorial for performing an assimilation experiment using NorESM1-ME

Install NorCPM in the nn9039k project space

mkdir -p /cluster/projects/nn9039k/people/\$USER

cd /cluster/projects/nn9039k/people/\$USER

git clone ssh://git@github.com/NorESMhub/NorCPM.git NorCPM

Set up a NorESM1-ME assimilation test experiment with 4 members

cd /cluster/projects/nn9039k/people/\$USER/NorCPM/setup/noresm1
./create_ensemble.sh settings/norcpm-cf-system1_assimtest_19811115.sh

Submit experiment

./submit_ensemble.sh settings/norcpm-cf-system1_assimtest_19811115.sh

Tutorial for performing an assimilation experiment using NorESM2-LM

Install NorCPM in the nn9039k project space

```
mkdir -p /cluster/projects/nn9039k/people/$USER

cd /cluster/projects/nn9039k/people/$USER

git clone ssh://git@github.com/NorESMhub/NorCPM.git NorCPM
```

Install NorESM2

```
cd /cluster/projects/nn9039k/people/$USER/NorCPM/setup/noresm2
./install_noresm2.sh
```

Set up a NorESM2-LM assimilation test experiment with 10 members

```
./create_ensemble.sh settings/noresm2-lm_odaday_19960101.sh
```

Submit experiment

```
./submit_ensemble.sh settings/noresm2-lm_odaday_19960101.sh
```