

# CTSM/CLM Git Model Development Workflow

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**With substantial contributions from Ben Andre**

**and also: Martyn Clark, Mariana Vertenstein, Erik Kluzek, Jim Edwards, Steve Goldhaber, Dave Lawrence, Mike Barlage, Rosie Fisher and others**

ekluzek Merge pull request #248 from billsacks/fix_smb_documentation	Latest commit 5d717fc a day ago
bld	a day ago
cime_config	Fix the documentation of some expected fails 4 days ago
doc	write ChangeLog entry 4 days ago
manage_externals	Update manage_externals to v0.9.0 12 days ago
src	Merge tag 'clm4_5_18_r272' into andre-standalone-dev 9 days ago
src_clm40	clm4_5_16_r244 2 months ago
testtools	Clarify testtools and add new file to repository 7 days ago
.CLMTrunkChecklist	Add an item in the trunk checklist 10 days ago
.config_files.xml	Add .config_files.xml to override COMP_ROOT_DIR_LND a month ago
.gitignore	Take some suggestions from Bill Sacks,change order of perl libraries ... 4 days ago

# What's going on?

- All CESM components except POP are moving to git/GitHub
- All land components are now public
- CLM is now on GitHub under CTSM
  - ▶ Currently, CTSM = CLM
  - ▶ Soon, CTSM will become broader
  - ▶ The CLM name will remain, denoting a certain set of physics options within CTSM

# Why git/GitHub?

- Git via GitHub is becoming the standard for open source collaboration
- Great collaborative tools for code development and review
- Integration of code, issues and project management creates greater transparency
- Distributed version control makes it easier for anyone in the community to keep their developments in version control

# Quick start

CTSM on GitHub:

<https://github.com/escomp/ctsm>

Obtaining the code:

```
git clone -b release-clm5.0 https://github.com/ESCOMP/ctsm.git clm5.0  
cd clm5.0  
./manage_externals/checkout_externals
```

For more information:

<https://github.com/ESCOMP/ctsm/wiki>

<http://www.cesm.ucar.edu/models/cesm2.0/land/>

<https://escomp.github.io/ctsm-docs/>