

### Scientifically validated CLM configurations in CLM5 release code:

- CLM5SP Prescribed vegetation phenology, no biogeochemistry
- CLM5BGC Prognostic biogeochemistry
- CLM5BGCcrop Prognostic biogeochemistry with crops with irrigation and fertilization
- CLM4.5SP Prescribed vegetation phenology, no biogeochemistry
- CLM4.5BGC Prognostic biogeochemistry
- MOSART river model is default in all configurations

### Functionally supported options/configurations:

- FATES
- DV (Dynamic Global Vegetation) can be in principle be activated for CLM4.5 and CLM5, but untested scientifically
- VIC (Variable Infiltration Capacity)-based hydrology can be activated for any CLM5 configuration
- RTM river model functionally supported for all configurations

### Resolution

- CLM standard resolutions are 0.9°x1.25°, 0.5°, 1.9°x2.5°, and ne30
- MOSART standard resolution is 0.5°; a 0.1° resolution version is functionally supported
- CLM standard vertical resolution is 25 total layers with 20 hydrologically active layers, but alternative soil configurations are available

### Atmospheric forcing datasets

- GSWP3 (1901-2014)
- CRUNCEPv7 (1901-2016) – Viovy, <http://dods.extra.cea.fr/data/p529viov/cruncep/readme.htm>
- WATCH (1901-2001), WFDEI (1979-2016)