



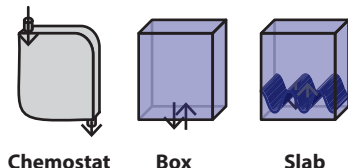
phydra v1

import phydra

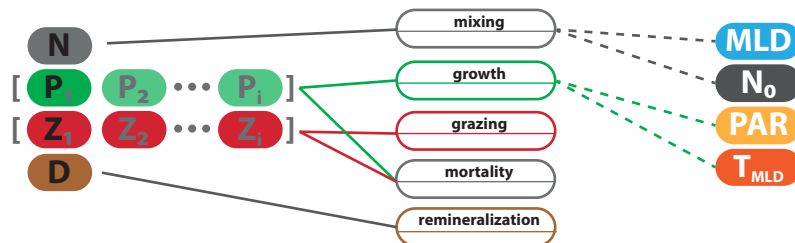
xarray-simlab

import xsimlab as xs

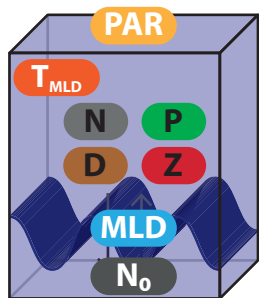
- 1 Choose physical setting
- 2 Choose components
- 3 Choose fluxes
- 4 Supply forcing



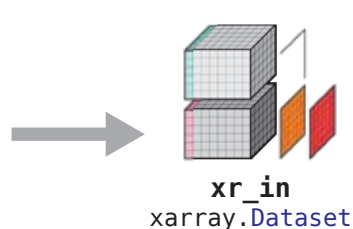
all are processes contained in phydra



- 5 Create xsimlab model object
`slab_npzd = xs.Model(*processes)`



`slab_npzd`
`xs.Model`

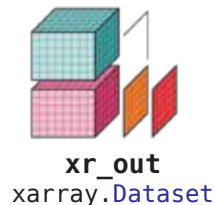


- 6 Supply parameters & time-steps
`xr_in = xs.create_setup(
 model=slab_npzd,*clocks,
 *input_vars,*output_vars)`

- 7 Run model
`ds_out = ds_in.xsimlab.run(
 model = slab_npzd,
 parallel=True)`



Store output
`ds_out.to_netcdf()`



- 8 Analyse & visualise output
`ds_out.P_state.plot()`

`xarray` `matplotlib`

