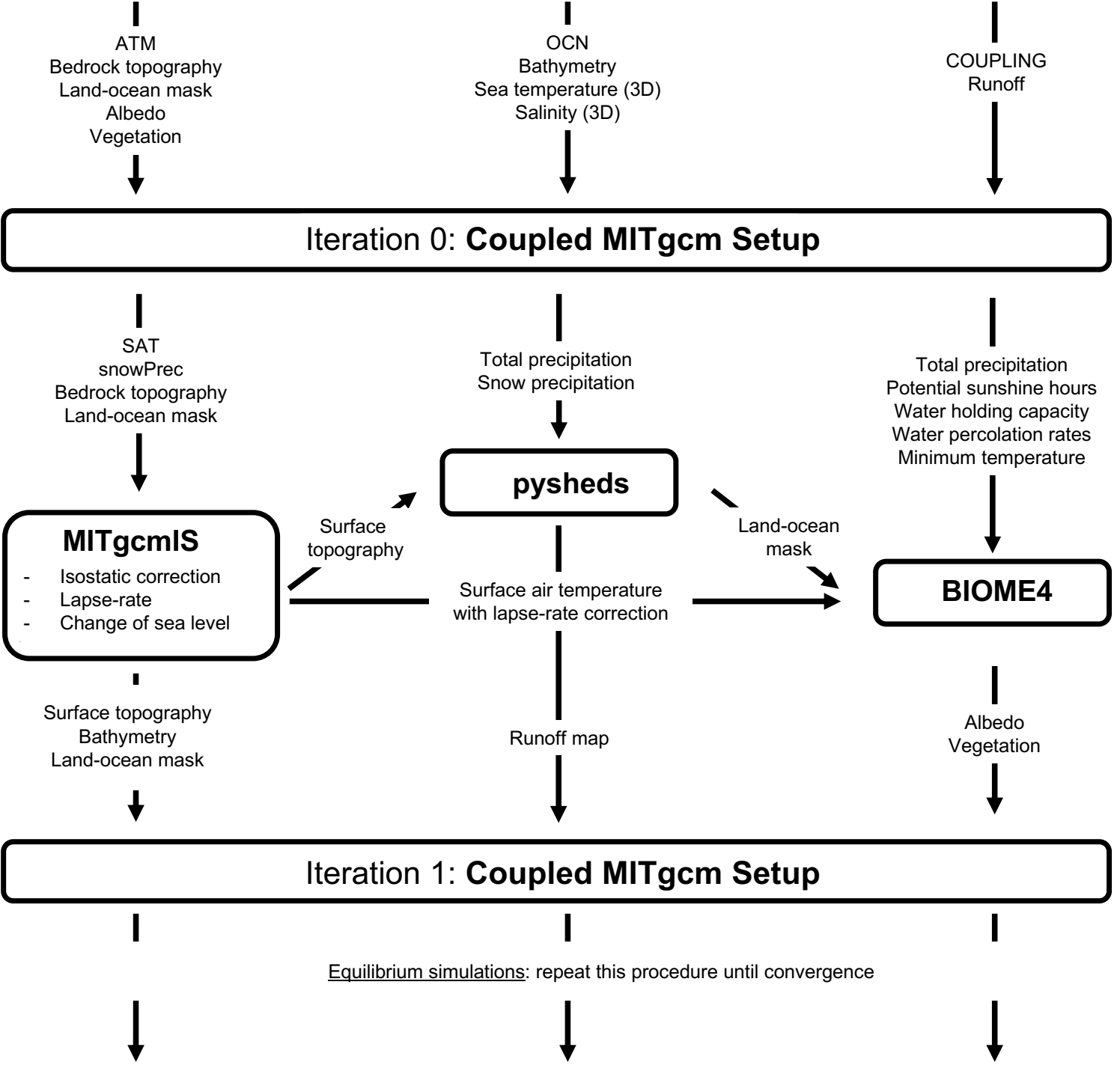
ATM
Bedrock topography
Land-ocean mask
Albedo
Vegetation
OCN
Bathymetry
Sea temperature (3D)
Salinity (3D)
COUPLING
Runoff
Iteration 0: Coupled MITgcm Setup
SAT
snowPrec
Bedrock topography
Land-ocean mask
Total precipitation
Snow precipitation
Total precipitation
Potential sunshine hours
Water holding capacity
Water percolation rates
Minimum temperature
pysheds
MITgcmIS
- Isostatic correction
- Lapse-rate
- Change of sea level
Surface topography
Land-ocean mask
Surface air temperature with lapse-rate correction
BIOME4
Surface topography
Bathymetry
Land-ocean mask
Runoff map
Albedo
Vegetation
Iteration 1: Coupled MITgcm Setup
Equilibrium simulations: repeat this procedure until convergence