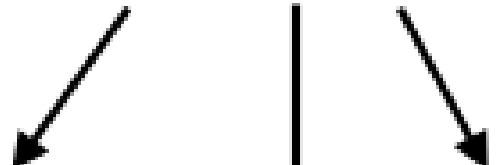


Biogeochemical test bed

Simulate global, 2-D
daily carbon fluxes

CASA-CNP NPP



CASA-CNP HR

MIMICS HR

CORPSE HR

GEOS-Chem atmospheric transport model

Simulate global, 3-D
atmospheric CO₂ species
based on test-bed fluxes

20 CO₂ species from four
test-bed fluxes x five regions

Sampling and spatial aggregation

Sample GEOS-Chem
atmospheric CO₂ species at
NOAA MBL sites

Average site-level CO₂ in
six latitude bands