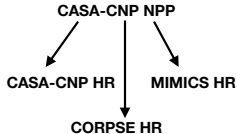


## Biogeochemical test bed

Simulate global, 2-D  
daily carbon fluxes



## GEOS-Chem atmospheric transport model

Simulate global, 3-D  
atmospheric CO<sub>2</sub> species  
based on test-bed fluxes

20 CO<sub>2</sub> species from four  
test-bed fluxes x five regions

## Sampling and spatial aggregation

Sample GEOS-Chem  
atmospheric CO<sub>2</sub> species at  
NOAA MBL sites

Average site-level CO<sub>2</sub> in  
six latitude bands