

# Ocean Related Community Experiments for BGCWG

BGCWG Meeting, June 2009

# What will already be done?

- PI control with interactive CO<sub>2</sub>
- PI control with specified CO<sub>2</sub>
- Transients, historical & future, with specified CO<sub>2</sub> concentrations and emissions
- Transients, historical & future, with fixed radiative CO<sub>2</sub>
- These can be analyzed to compute climate-carbon feedbacks

# Use additional experiments to break feedbacks into different mechanisms

- CO<sub>2</sub> Solubility
- Stratification
- Sea-Ice
- Southern Ocean Upwelling
- Primary Production
- Community Structure
- Nutrient Utilization