How do parts of the climate system interact?

Does this interaction stabilize or destabilize the climate system?
Climate System Interactions: Theory

**Key Concepts**

- System
- Component
- Coupling
- State
- Feedback
Components, couplings, states

Engine temperature  Fuel supply  Fuel pump  Coolant level

Photos of 1982 Honda Civic station wagon engine compartment,
img.photobucket.com/albums/v707/cibrlx01/civic/DSC01408.jpg, acc 2/25/13
A system is a set of inter-related components whose states may be determined by cause-effect couplings.

We can think of radiation, circulation, water and carbon as coupled components of a climate system.

Next:

- Office hours in CHM 1215 today and Thurs 1-2pm
  - cancelled for Weds this week
- Climate System Coupling: Examples (Thurs)
  - Discussion of Soden et al (2005)