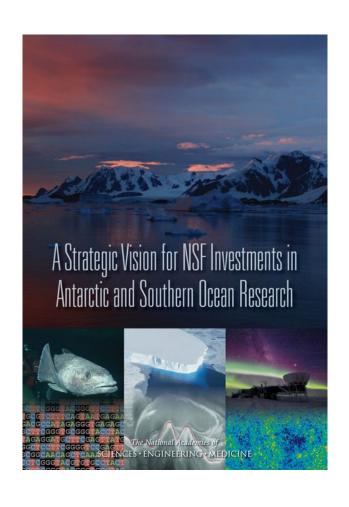


Research Interests in Antarctica and the Southern Ocean

Paul Cutler

Program Director, Antarctic Sciences, NSF Office of Polar Programs

NSF Strategic Research Priorities for Antarctica and the Southern Ocean



- U.S. National Academies of Science, Engineering, and Medicine recommended foci:
- 1. How fast and how much will sea level rise?
- 2. How do Antarctic biota evolve and adapt to the changing environment?
- 3. How did our Universe begin; what governs its evolution and ultimate fate?
- 4. Continue general support of transformative Antarctic science



Ocean-Ice Interactions: Sea-level Rise

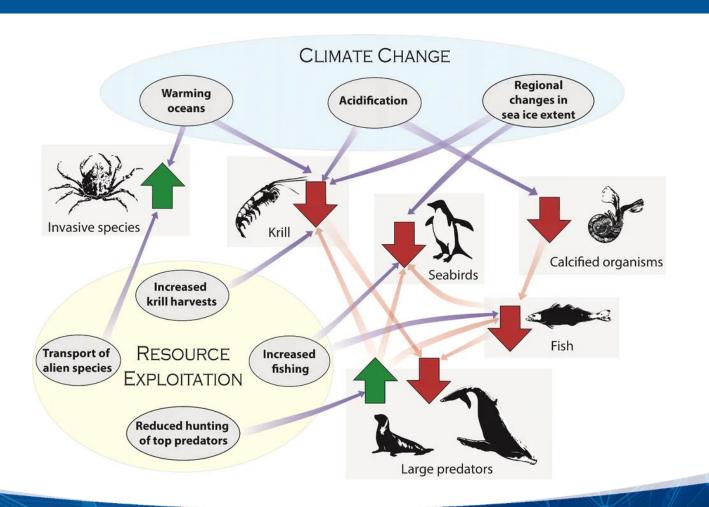


- Present processes
- Paleo records



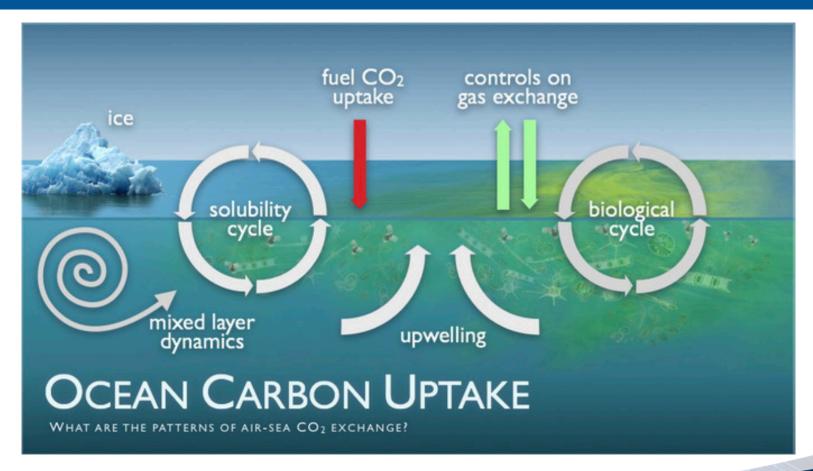
Credit: Christine Zenino

Marine Ecosystems in a Changing Environment





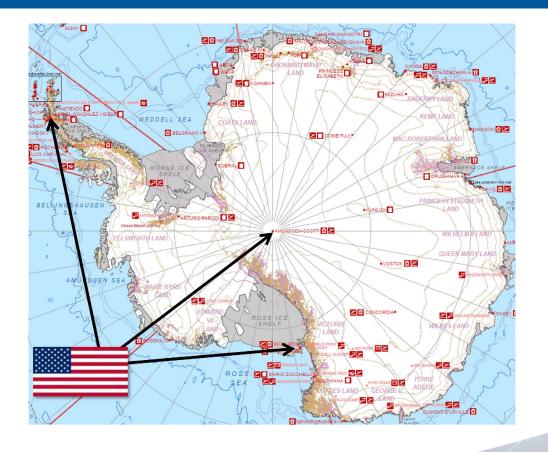
The Southern Ocean Carbon Cycle





U.S. Antarctic Program Stations

- McMurdo Station
- Amundsen-Scott
 South Pole Station
- Palmer Station





Research Vessels





