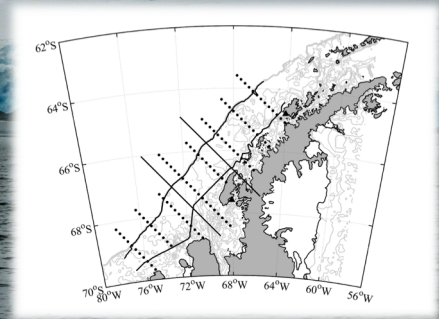


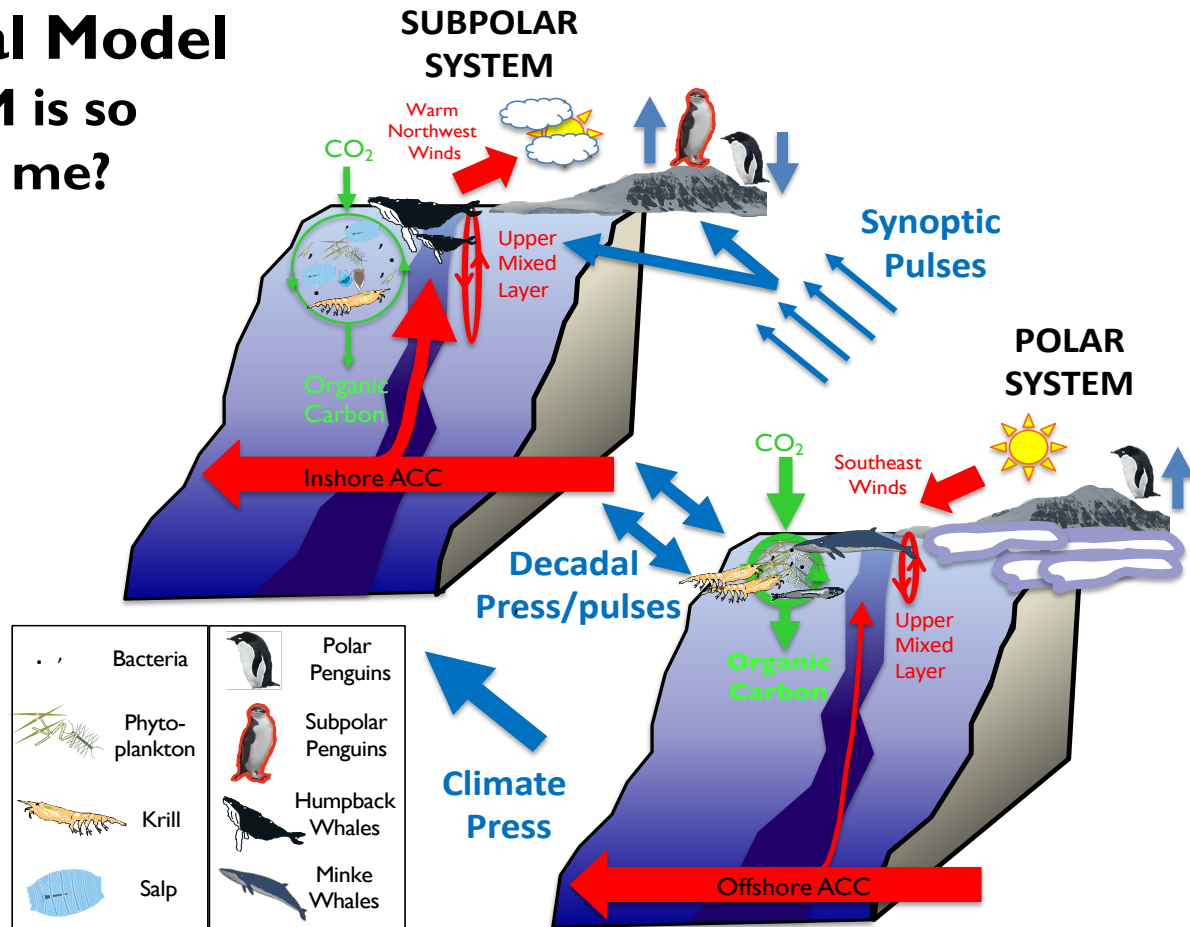
Polar food web resilience in the face of a shifting climate

Thanks to many: Hugh Ducklow, Debbie Steinberg, Scott Doney, Sharon Stammerjohn, Doug Martinson, Carlos Moffat, William Fraser, Megan Cimino, Ben van Mooy, James Connors, Josh Kohut, Matt Oliver, Hank Statscewich, Ari Friendlaender, Doug Novacek, NSF, British Antarctic Survey, NOAA NMFS, Argentinian Jubany Team



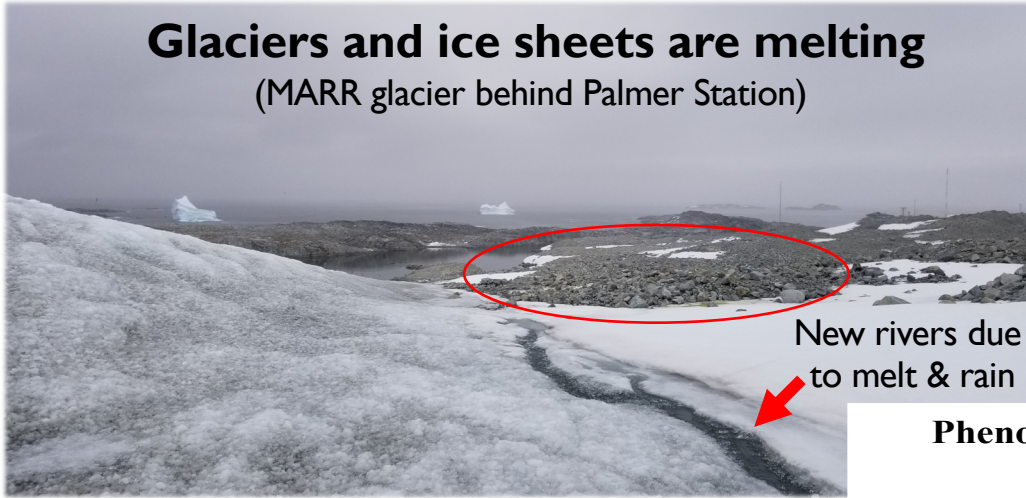
Our Conceptual Model

Why SOCCUM is so important to me?

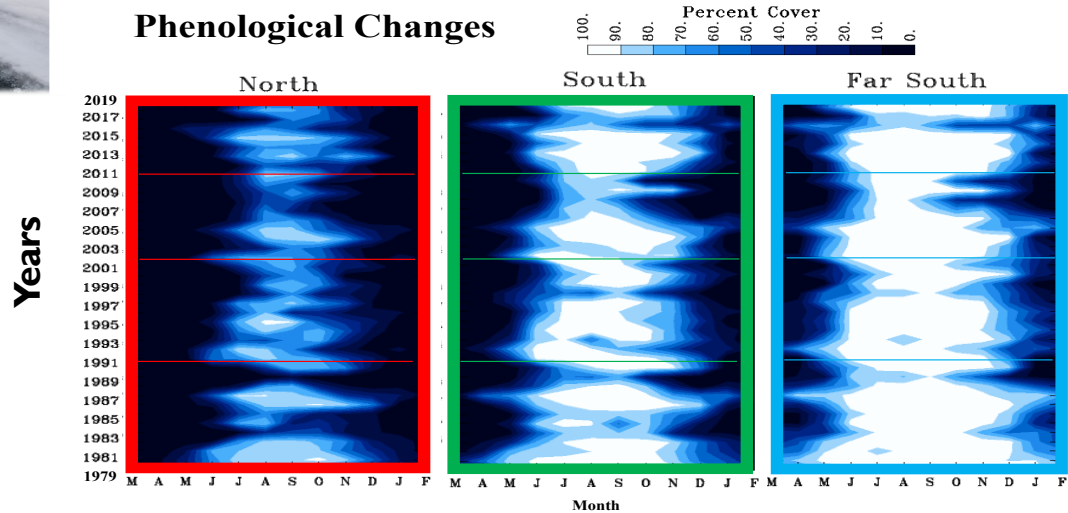


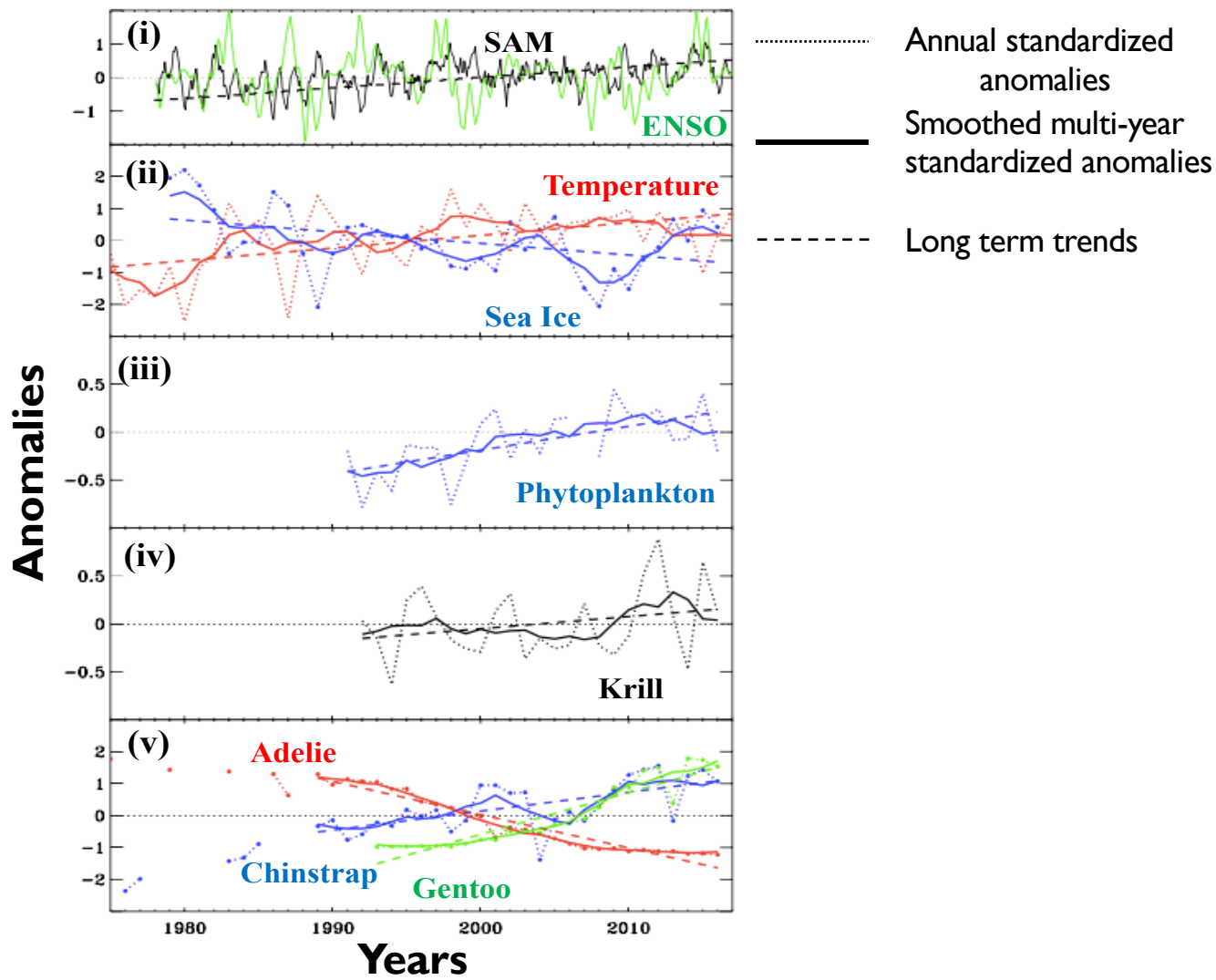
The West Antarctic Peninsula (WAP) is a model system for polar marine ecosystems undergoing change

Glaciers and ice sheets are melting
(MARR glacier behind Palmer Station)



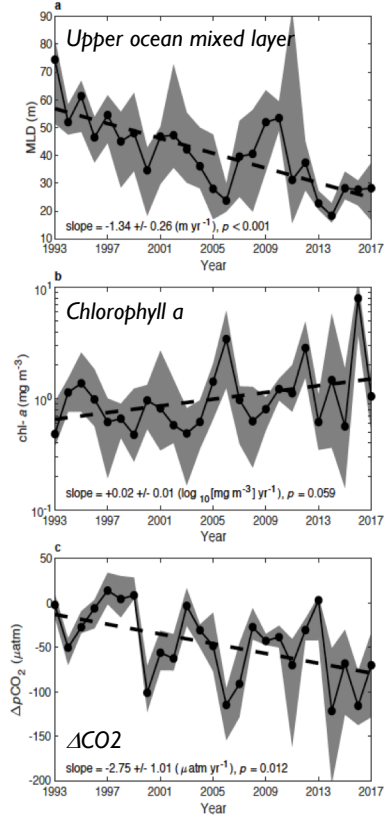
Regionally sea ice is melting



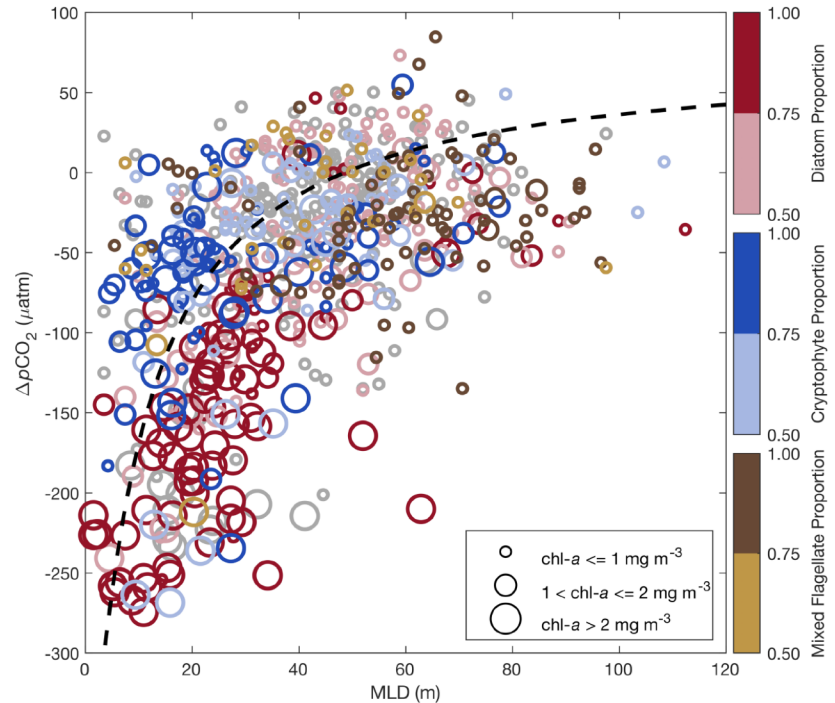


West Antarctic Peninsula shows changes in physics, chemistry and biology

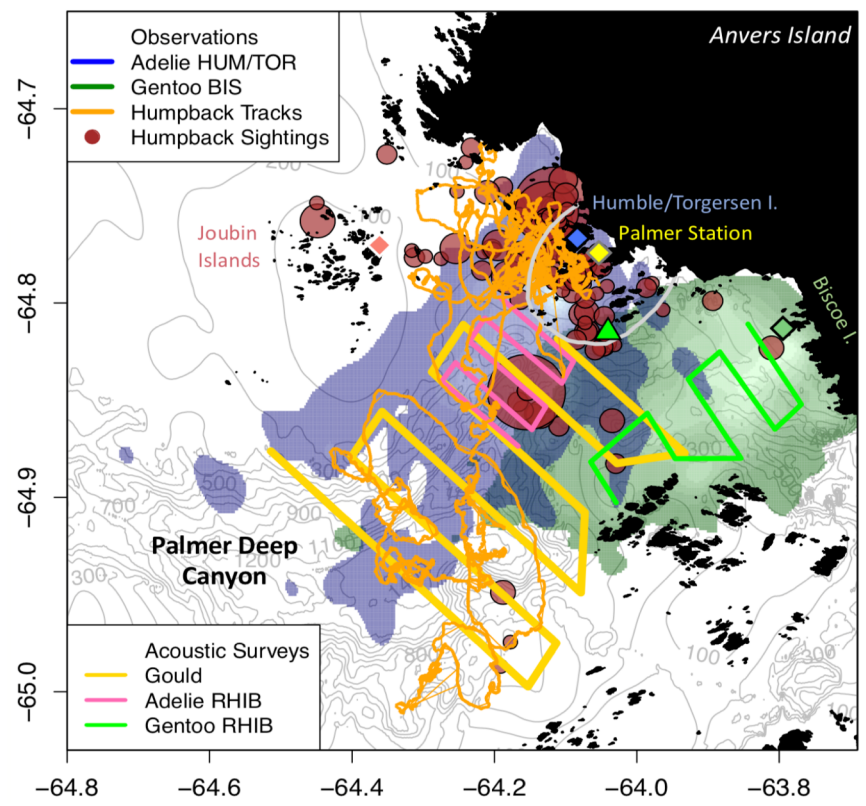
*Ice change opening
the ocean to sun and atmosphere*



Efficiency of the system is a function of the diversity and biomass



Food competition for available resources among higher trophic levels



High Frequency Extreme Weather?

