How can robotic sensors help us understand climate change and the ocean carbon cycle? Ocean Carbon Photo-Algal CO₂ burial biomass synthesis uptake Carbon process measured by Help us understand Robotic sensors Satellites **Drifters** Buoys **Gliders** Sensor type Temp-Chloro-Nutrients Light Currents Weather erature phyll Measurement **Trends** Space Time **Patterns** Global \Local Short Long Scale scale Term term Group Consensus Map created by Dr. Benjamin Twining Susie Arnold, Beth Campbell, Phoebe Jekielek, and Keri Lindberg on Feb 1, 2010.