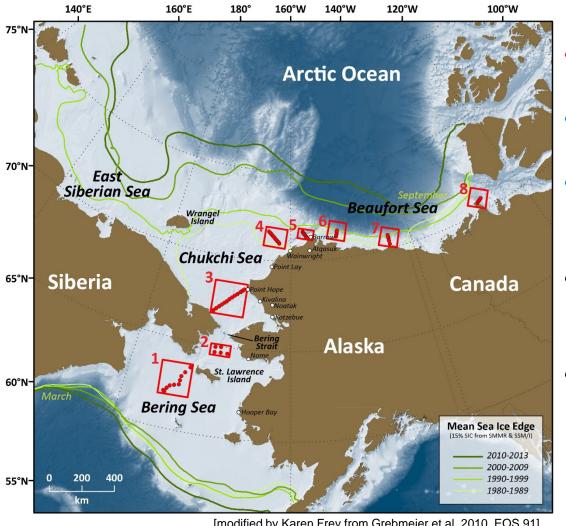
#### Distributed Biological Observatory (DBO)

http://www.pmel.noaa.gov/dbo/



- **Eight DBO Regions**
- **DBO 1-4: continental shelf**
- DBO 5-8: outer continental shelf, slope, basin & canyon
- All regions are focused on areas of high productivity
- All regions are within the seasonal ice zone domain













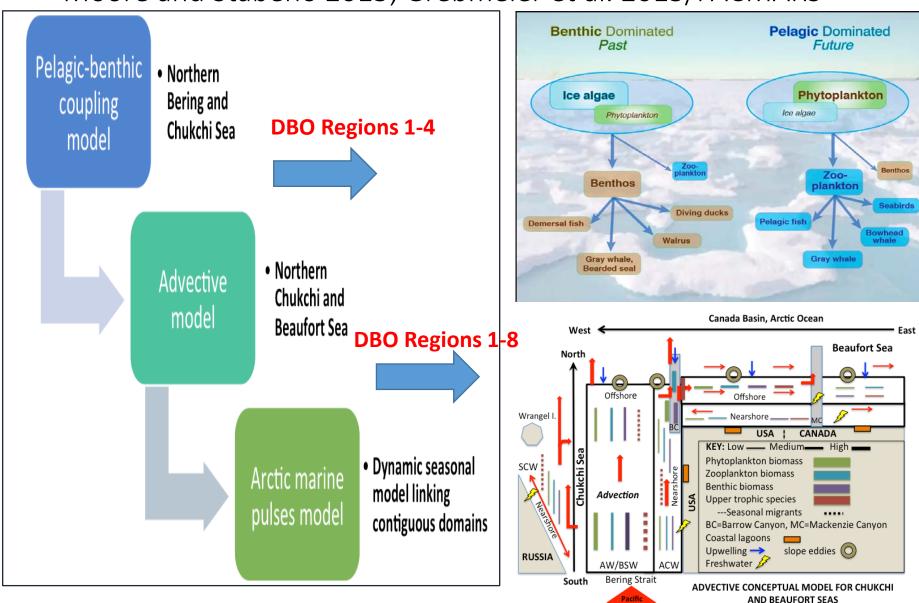






# **Building the AMP Conceptual Model**

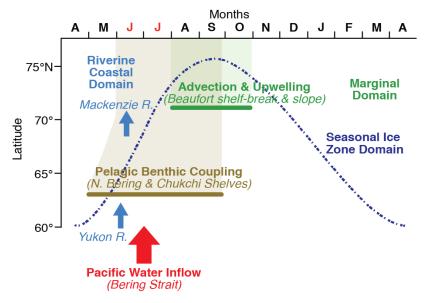
Moore and Stabeno 2015; Grebmeier et al. 2015/PACMARS

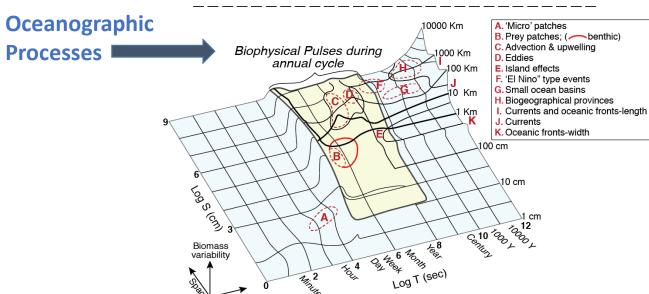


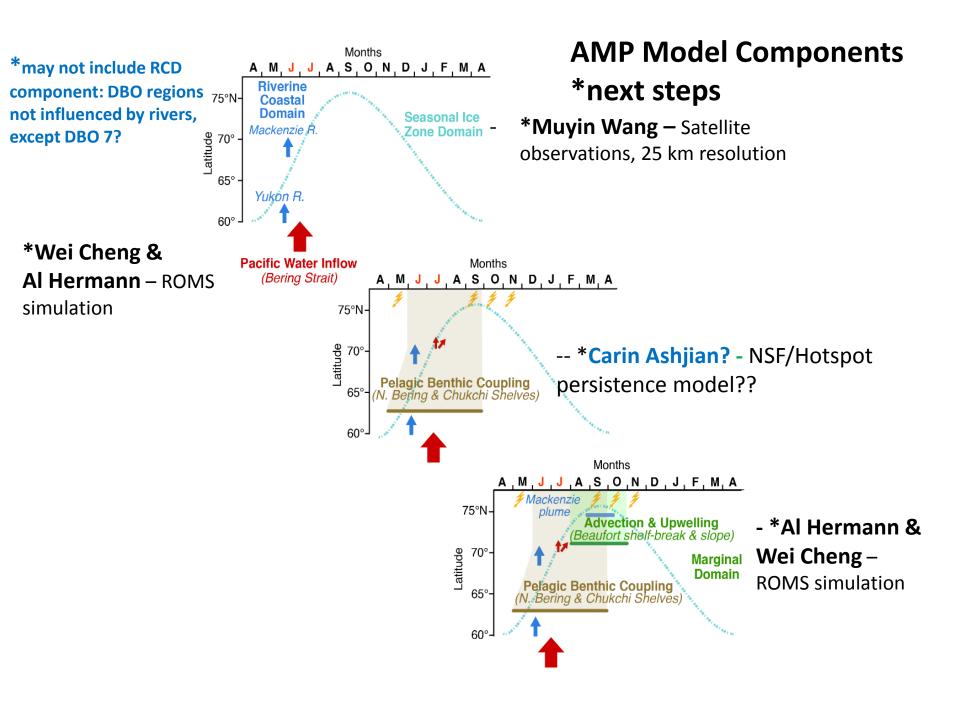
### THE ARCTIC MARINE PULSES (AMP) CONCEPTUAL MODEL

#### Arctic Marine Pulses (AMP) Model:

the Pacific Arctic Domain







## DBO Data & the AMP Model

Pelagic-benthic coupling: DBO 1-4

Note: DBO 1-2 'upstream'; DBO 3-4 'downstream' from Bering Strait inflow

- Bering Strait inflow from long-term moorings
- Advection: DBO 1-8

Note: DBO 1-4 Advection & P-b coupling combined; DBO 5-8 Advection & Upwelling combined, also eddies

Note: DBO data seems particularly relevant to further development of the AMP model, which aims to predict seasonal variability in ocean processes in the Pacific Arctic over an annual cycle.