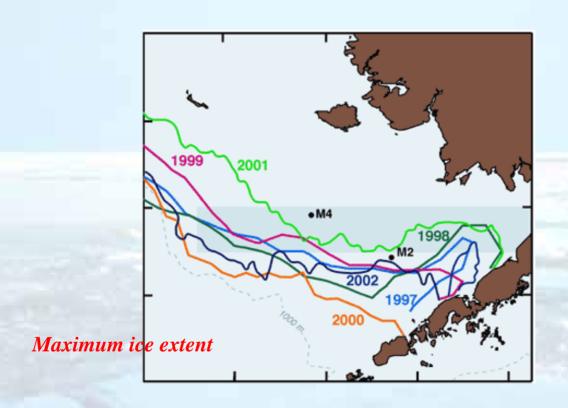
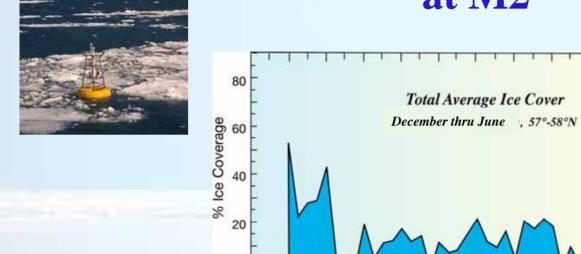
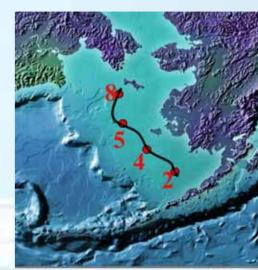


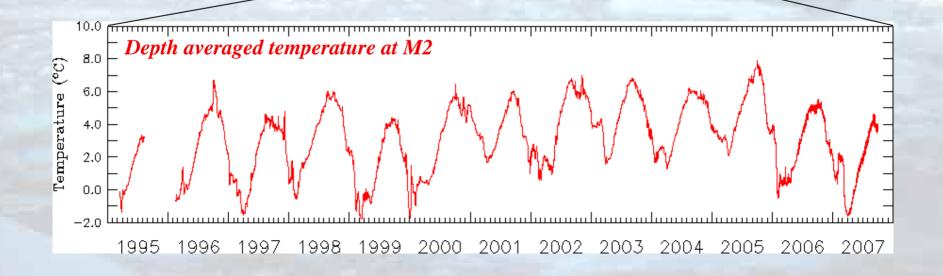
## Ice Extent over the Bering Sea Shelf



Sea Ice and Depth Averaged Temperature at M2



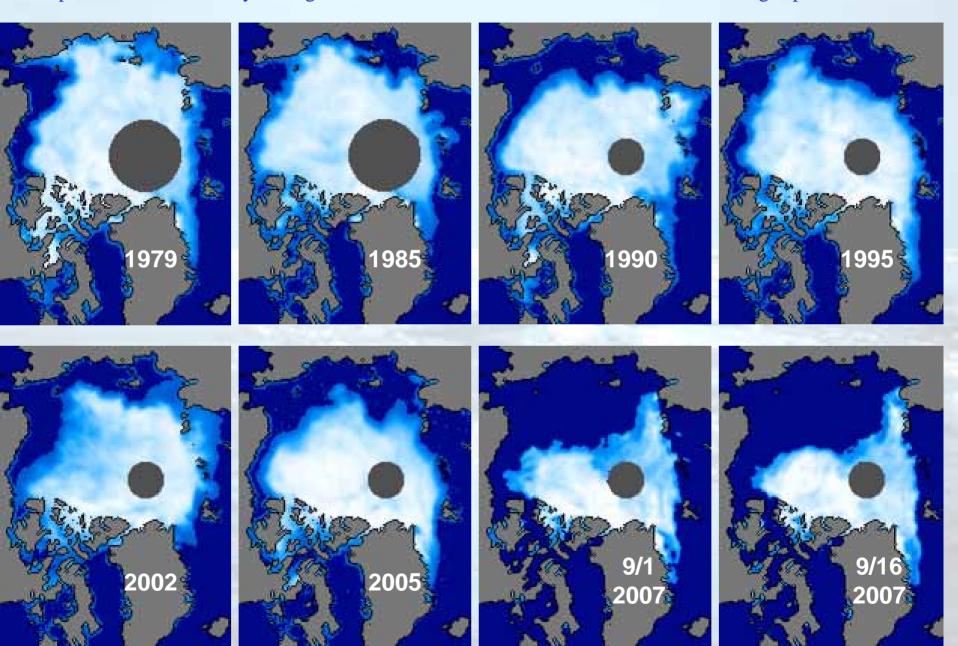




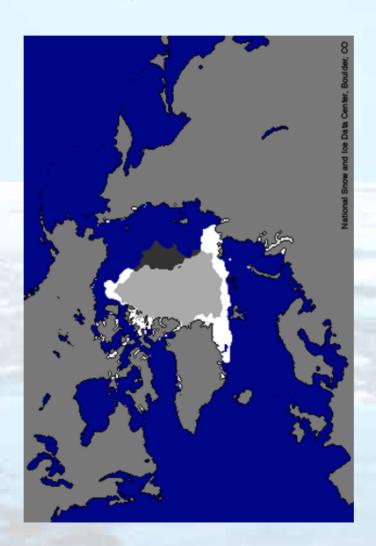
YEAR

#### September 1979 sea ice extent and successive September record lows

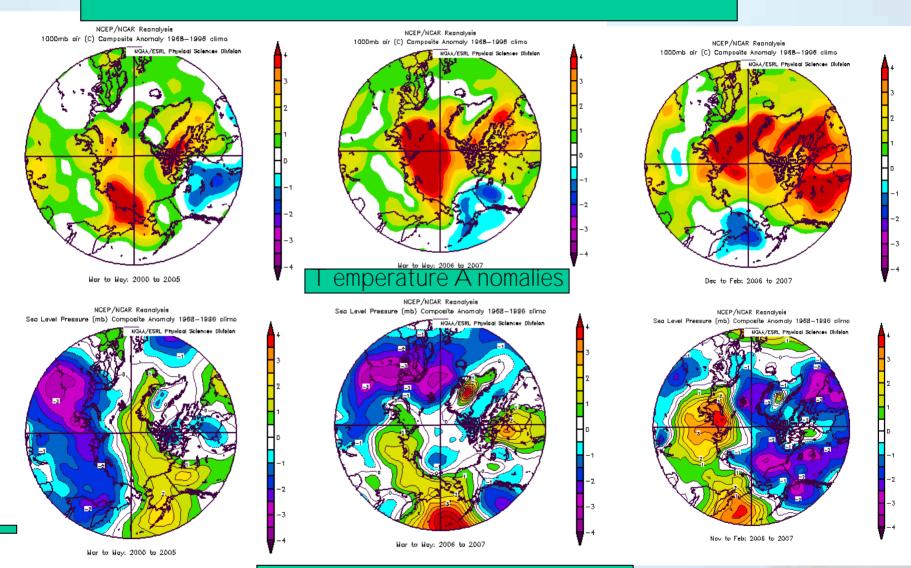
September 2007 monthly average will fall somewhere between the 9/1 and 9/16 images pictured below



### **Arctic Sea Ice Extent**



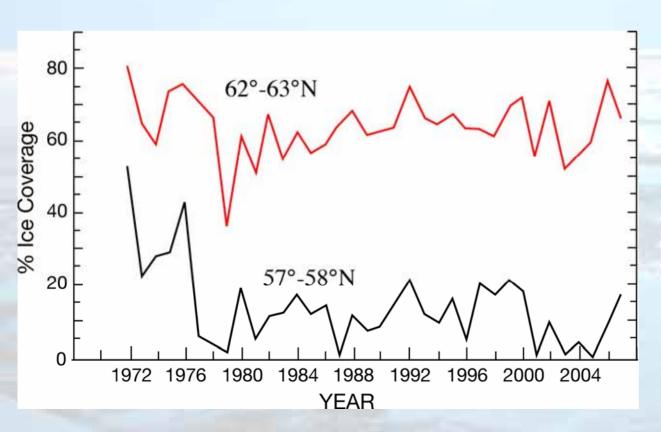
# Warm S pring Bering 2000-2005 (Left) Cold S pring and Winter 2006-2007 (Center and Right) Rest of A rctic S tays Warm!

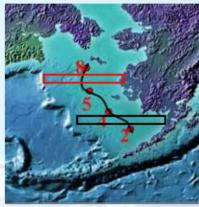


S ea Level Pressure A nomalies

### Indices of Ice Extent over the Eastern Bering Sea Shelf

(December-June)





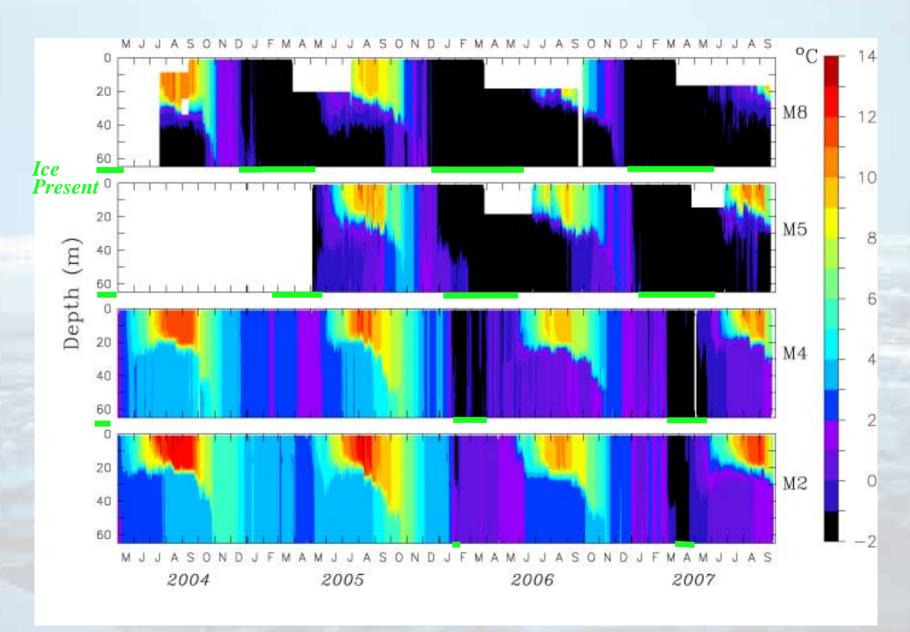
## M8M5M4M2Temperature (C) - May 2005 Salinty (psu) - May 2005 Nitrate (µM J 1) - May 2005 O2 Saturation (%) -May 2005 200 Distance (km)

# Water Properties along the 70-m Isobath

(2005)

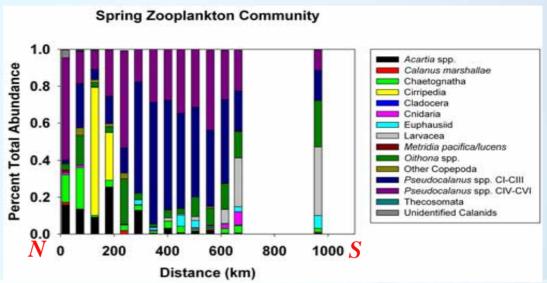


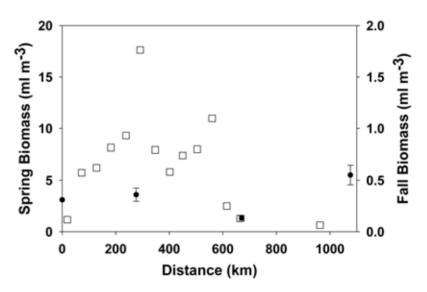
### **Changes in Temperature at the Moorings**



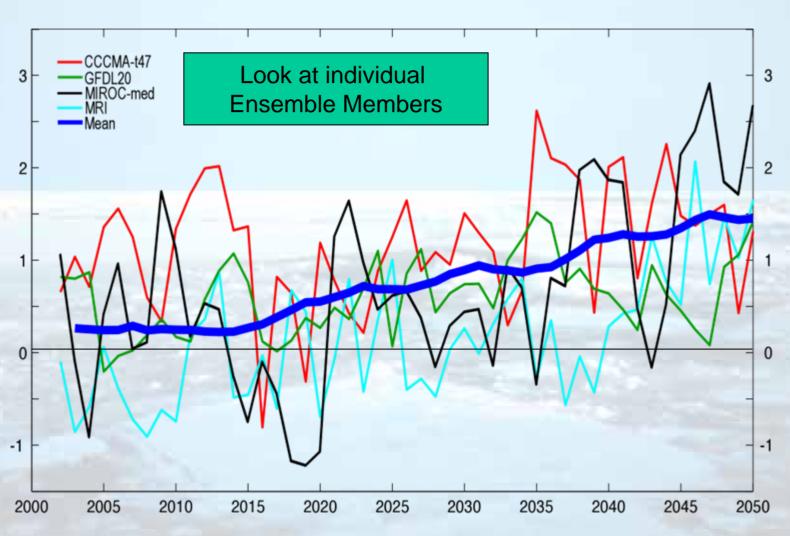
### Zooplankton along the 70-m Isobath (2005)

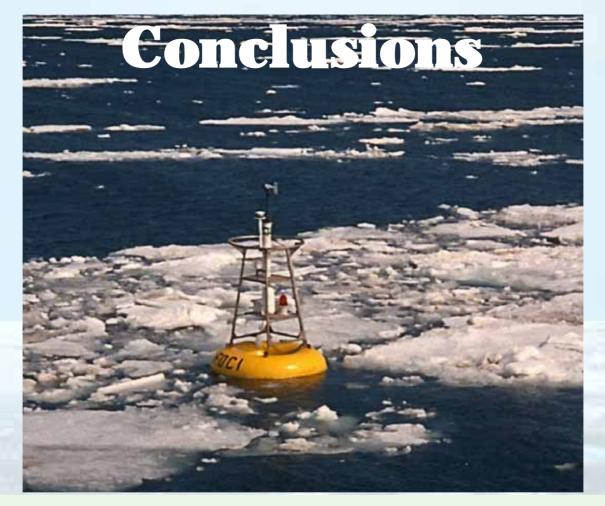






### Bering Winter (NDJFM) Ocean Temperature Anomaly (Relative to 1980-99 mean) IPCC A1B emissions scenario





- Definite Arctic/Subarctic ecosystems
- Warm/Cold variability on top of global warming trend
- Arctic sea ice may not return to previous levels (1980s)