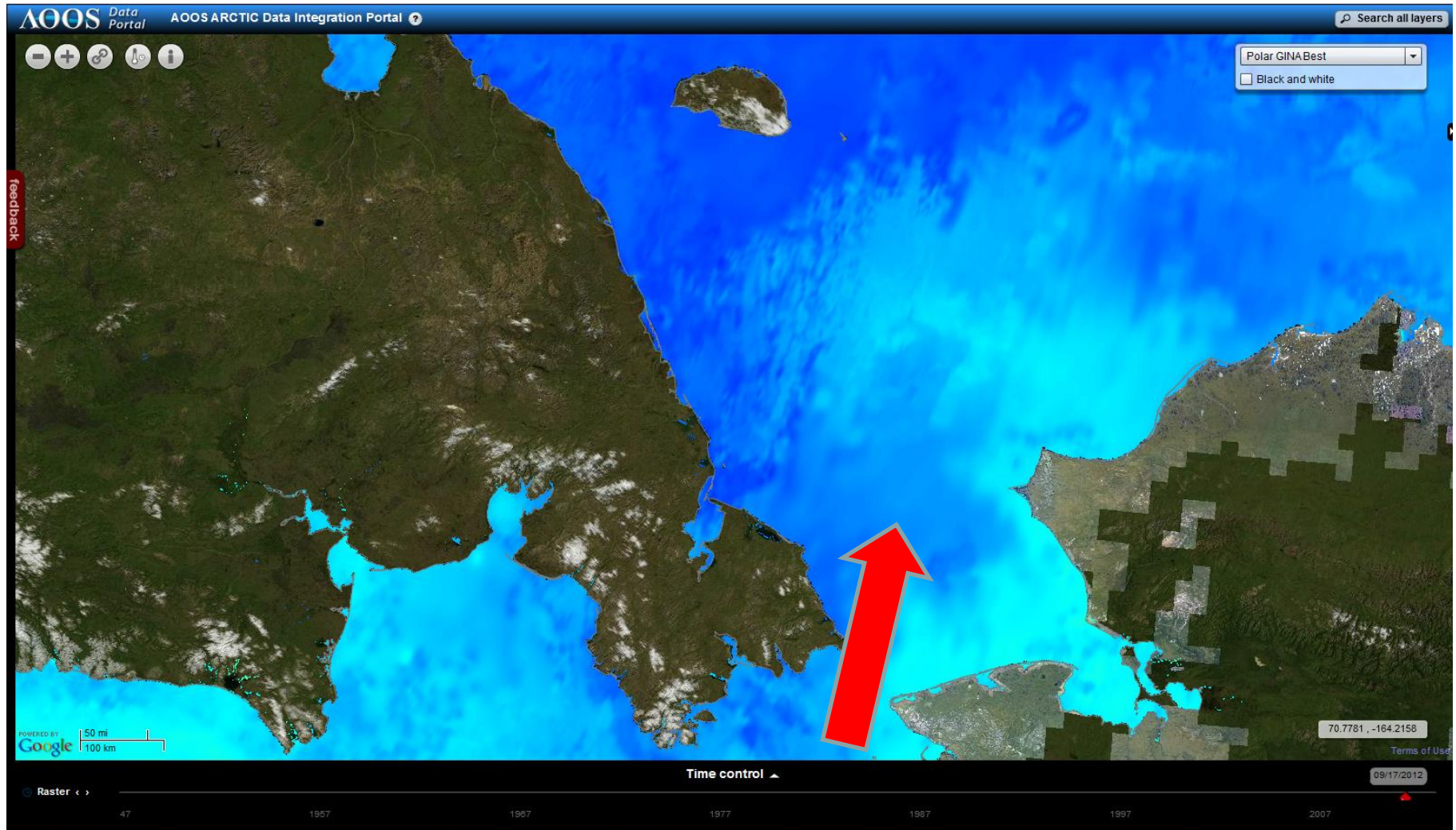
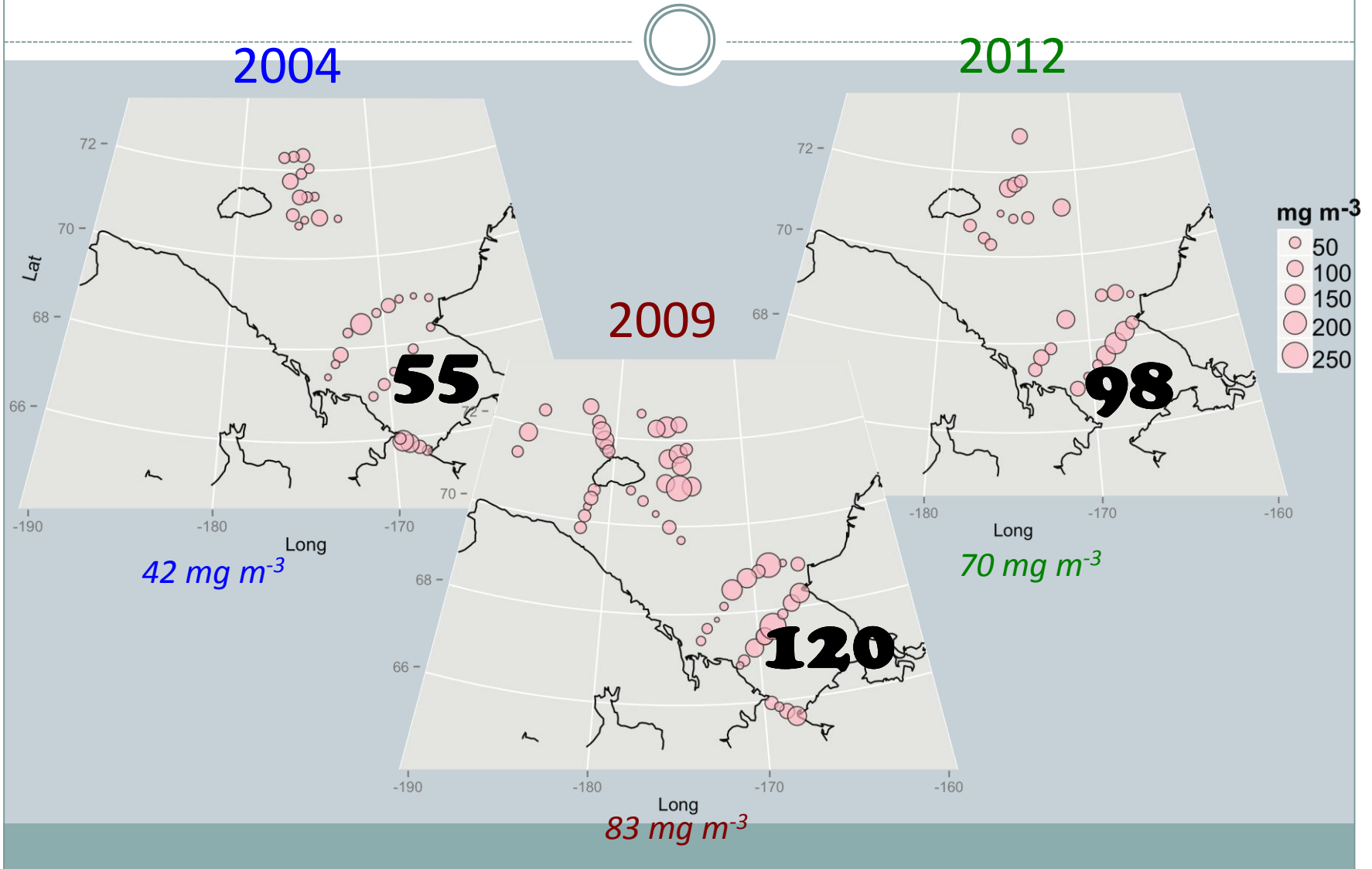


# Bering Strait Fluxes



# Zooplankton biomass



# Calculation

- Cross-sectional area of Bering Strait (4.25 km<sup>2</sup>)
- Annual transport 1 Sv (Woodgate et al.)
- Summer biomass 50-100 mg DW m<sup>-3</sup>
  - Assume representative of entire period of high transport
  - Biomass in steady state

= 1.75-3.5 million tonnes DW (0.8-1.6 mt C) per year

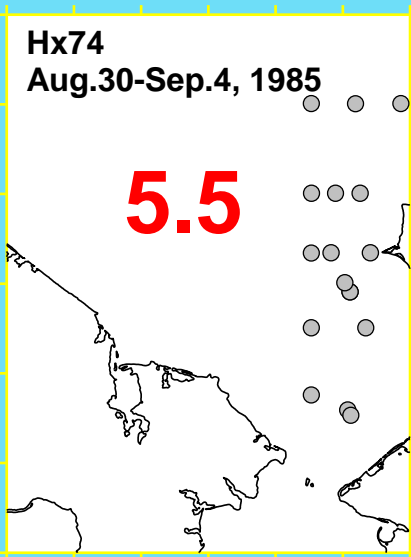
# Reasonable?

- RUSALCA: 0.8-1.6 million tonnes C per year
- Springer et al. 1989 estimated 1.8 mt for 1985 (120 days) dominated by Calanus, but standing stock only 20-50% in 1986
- This data suggests no long-term change, but more careful modelling could refine both periods

# ISHTAR

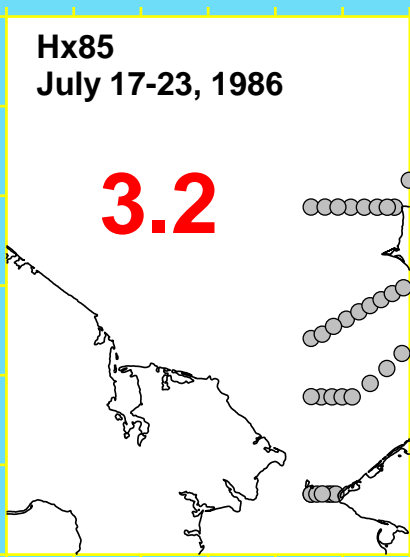
Hx74  
Aug.30-Sep.4, 1985

5.5



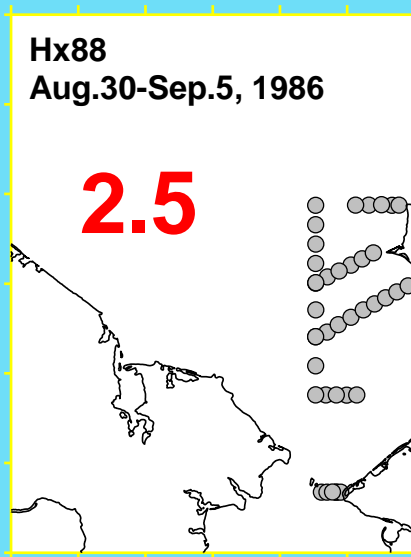
Hx85  
July 17-23, 1986

3.2



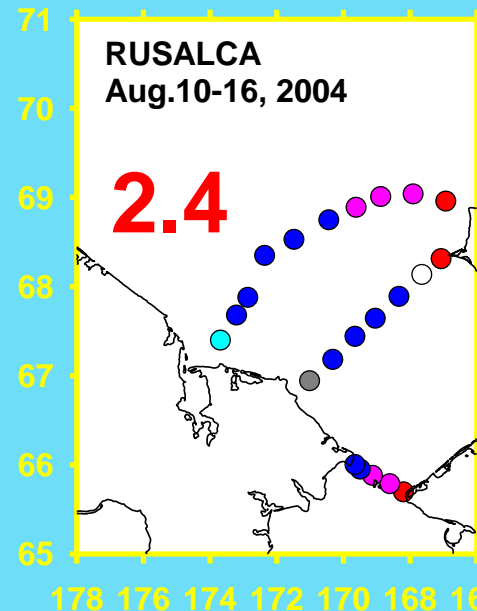
Hx88  
Aug.30-Sep.5, 1986

2.5



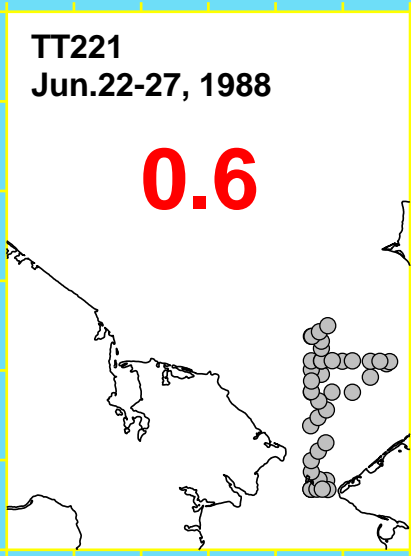
RUSALCA  
Aug.10-16, 2004

2.4



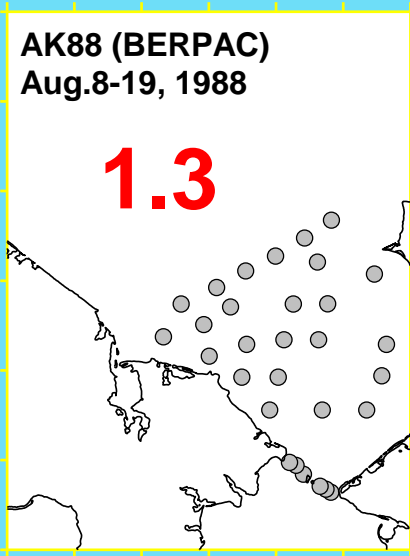
TT221  
Jun.22-27, 1988

0.6



AK88 (BERPAC)  
Aug.8-19, 1988

1.3



Hx128  
Jul.20-24, 1989

3.1

