

2 Projects:



 (1) Physical oceanography of Barkley Sound: Seasonal and Interannual Variability (Monthly CTD/O2/FI time series at Swale and Sarita Stations)
(2) High-frequency acoustics at Folger

acoustics at Folger node (zooplankton, bubbles, eventually fish...)



Seasonal cycle

3 layers: 0-60m, 60-120m, 120bottom, with different timing O2 often slightly hypoxic (<1.4 ml/l) near bottom





- Highest deep O2 at start of renewal, pretty low O2 at end
- -Intermediate renewal time is O(weeks)
- -Deep O2 used up at 2.4 ml/l/yr
- -Intermediate O2 used up at rate ~20 ml/l/yr



- @ Folger Pass:3frequencyupward-lookingecho sounder
- Sampling @ 1Hz, since Nov 2009.
- 3 frequencies see different things...









(1) Estimates of zooplankton biomass



(2) Acoustic measure of mean water column T



9

(3) Surface waves and bubble production



3)b – Inversion for size/amount of bubbles





