

## DBO Biology late afternoon data

- Physics-follow group
- Nutrients: type and depth
  - Subset intercalibration among labs: ideal
- Satellite- NASA, Frey identify which data: chlorophyll, productivity?
- Primary production: C13 method (harder for this method)-one, historical C14, too
  - Intercalibration: ideal
  - Geotracers, intercalibration, cruises –good example
  - Same cruises: interlaboratory comparison at sea
- Chlorophyll standing stock: two methods (metadata)-2 methods
  - Bulk, cross calibration
  - C30 Diana and Lee
- Species ID: 2012, slides, settling chambers
  - Cross calibrate 2-3 methods
  - Particulate silica, DV does with productivity, size fractionation
- Zooplankton
  - Metadata file ArcOD
  - Mesh 236, 150, 62 and 336, 505 (5 mesh sizes)
  - Someone provides correction
  - Manuscript drives direction of effort (aka \$\$\$)
  - Taxonomic issues:
  - Cross calibration; voucher specimen
  - Need metadata: species, genus level, how much
  - Explicit
  - Biomass length/weight

## Benthos infauna

- Single and double 0.1 m<sup>2</sup>
- 1 mm screen
- Standing stock
- 1 mm
- RUSALCA
- AKMAP-Jewett
  - Only one van Veen
  - Shell
  - DBO Fairweather
- Epibenthos
  - 3 different trawl, Tucket otter, beam
  - qualitative
  - Rusalca:CB
  - Cross-calibration
  - Struggles and trawling
  - Camera system
  - Go-pro camera

- Seabirds
  - Standard, vetted as 99%
  - One variation issue of flying birds
  - Continuous or snap-shot method
- Marine mammals
  - Yes big eyes, standard survey
  - Watch not calibrated for DBO, Sue will provide example
  - Sonobuoys-additional

**ACTION:**

1. send metadata example your data set to Steve
2. Steve update DBO metadata file-every DBO participant fill out
3. Have subgroups deal with variability, sampling issues, calibration needs
4. Chose low hanging fruit for key highlights for paper