2009-20 Chlorophyll and Phaeopigments:

Total Chlorophyll-a (>0.7um) samples were collected into 2-L polyethylene bottles, immediately placed in dark bags and stored in a fridge. Samples were filtered onto 25 mm glass fiber filters (Whatman GF/F) under low vacuum filtration. If the sample could not be filterd immediately, the time taken until filtered was noted. Filaters were stored in clear glass scintillation vials, kept in covered trays at -80C until analysis on shore. For analysis, samples were extracted in 90% acetone at -20C for 24 hours and analyzed on a Turner 10AU fluorometer, SN:5152FRXX, calibrated with commercially pure chlorophyll a standard (Sigma). Fluorescence readings taken before and after acidification were used to calculate chlorophyll and phaeopigment concentrations (Holm-Hansen et al 1965). Samples were analysed March 2010, 6 months after collection.

Holm-Hansen, O., Lorenzen, C.J., Holmes, R.W., and Strickland J.D.H. 1965.

Fluorometric Determination of Chlorophyll. J.du Cons. Intl. Pour l’Epl.

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