Chitobiase

Experiments for zooplankton production were performed at LB08, LC09, LC04, LG09, LG02, LBP3, LBP8, CS02, and CS09. Experiments were performed by collecting seawater from the Niskin through a 54 um mesh into an acid-washed 0.5 L Nalgene bottle. Bottles were placed into an incubation cooler and time-decay samples were withdrawn from the bottles at 0, 3, 6, 12, 18, and 24 hr after collection. Samples were run on board following the protocol developed by Sastri and Dower, 2009.

Additional samples were taken from the “Loop” to measure photosynthetic yield using a single turnover active fluorometer. Samples were collected either from the niskin or from the loop sampler to measure fluorescent light curves to measure gross oxygen production. Samples were performed at ~80 locations along the cruise track (contact Sile Kafrissen, sile.kafrissen@dfo-mpo.gc.ca for data or details of methodology).