

SOCCOM SR1B POC

Nils Haëntjens¹, Emmanuel Boss¹, and Lynne Talley²
¹University of Maine, ²Scripps Institution of Oceanography
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Sample collection

Near-surface samples from SOCCOM CTD stations were taken for POC & PON analysis. 1-2 L of sample was filtered in the dark through glass fiber filter (GF/F) having a diameter of 25 mm. Filters were immediately stored in aluminium foil packages in a dewar of liquid nitrogen (-80 °C). Samples were shipped and analyzed at UCSB.

More information on the cruise are available at:

<https://socom.princeton.edu/content/shipboard-data-reports>

Analysis description

A dry blank (unused filter), to account for contamination was also taken at the time of sampling. To account for this contamination the POC and PON extracted from the dry blank was removed from the POC and PON extracted for each sample respectively. Unfortunately, a “wet” blank filter to account for the effect of dissolved organic carbon (DOC) and dissolved organic nitrogen (DON) adsorption was not taken.

Analysis were performed by Georges Paradis (georges.paradis@ucsb.edu) following the method described at <http://msi.ucsb.edu/services/analytical-lab/chn-analysis>. Note that this set of POC & PON samples are acidified to get rid of inorganic carbon and nitrogen.

Abbreviations

POC: Particulate Organic Carbon

PON: Particulate Organic Nitrogen