## SOCCOM NBP17-01 POC

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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: <a href="https://soccom.princeton.edu/content/shipboard-data-reports">https://soccom.princeton.edu/content/shipboard-data-reports</a>

## **Analysis description**

A DOC/DON adsorption blank, to account for contamination and dissolved organic carbon (DOC) and nitrogen (DON), was taken during sampling by stacking two filters in the filtration funnels and filtering the sample as normal. The upper filter will be the total (dissolved and particulate) organic carbon and nitrogen sample and the bottom filter will be the DOC/DON adsorption blank. The organic carbon and nitrogen from the DOC/DON adsorption blank was removed from the concentration of the total filters to retrieve particulate organic carbon (POC) and nitrogen (PON).

Analysis were performed by Georges Paradis (<u>georges.paradis@ucsb.edu</u>) following the method described at <a href="http://msi.ucsb.edu/services/analytical-lab/chn-analysis">http://msi.ucsb.edu/services/analytical-lab/chn-analysis</a>. 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