## SOCCOM IN2015 V01 SOTS POC

Avuntaura Gulledge<sup>1</sup>, Nils Haëntjens<sup>1</sup>, Emmanuel Boss<sup>1</sup>, and Lynne Talley<sup>2</sup>

<sup>1</sup>University of Maine, <sup>2</sup>Scripps Institution of Oceanography

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## Sample collection

Near-surface samples from SOCCOM CTD stations were taken for POC/PON analysis. Volume filtered varied from 1 to 2 L to achieve maximum loading without blockage. Filters used were GF/F 25 mm diameter.

More information on the cruise are available at: https://soccom.princeton.edu/content/shipboard-data-reports

## **Analysis description**

The POC and PON samples were acidified to get rid of inorganic carbon and nitrogen. 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 Dr Thomas Rodemann at the Central Science Laboratory, University of Tasmania, using a Thermo Finnigan EA 1112 Series Flash Elemental Analyser, following the method described at:

http://www.utas.edu.au/research/central-science-laboratory/facilities/elemental-analyser

## **Abbreviations**

DOC: Dissolved Organic Carbon DON: Dissolved Organic Nitrogen POC: Particulate Organic Carbon PON: Particulate Organic Nitrogen