## SOCCOM AMT28 POC

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## Sample collection

Near-surface samples from SOCCOM CTD stations were taken for POC/PON analysis. Volume filtered was 1-2 L, and filters used were GF/F 25 mm diameter. Filters were immediately stored at -80°C on the ship and in the lab. Samples were shipped and analyzed at the Aluwihare Laboratory at SIO/UCSD.

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**

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). Their stated detection limit is 100 µg carbon.

## **Abbreviations**

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