SOCCOM JR18005 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 UC Davis stable

isotope facility.

More information on the cruise are available at:

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

Other names for this cruise: ANDREXII, ORCHESTRA

**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