## SOCCOM AU1603 K-Axis HPLC

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## Sample collection

Near-surface samples from SOCCOM CTD stations were taken for HPLC analysis. Clean transfer from the niskins ( $<210~\mu m$  to remove zooplankton) to a closed dedicated filtration rig. The samples were size fractionated in: total and  $<20~\mu m$ . 20% of the filter area was removed for biogenic silica digest. Volume filtered varied from 1 to 2 L, the choice being dependent on CTD transmissometer and underway CO<sub>2</sub> data to achieve maximum loading without blockage. Filters used were GF/F 13 mm diameter.

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 method**

Analysis was performed by Karen Westwood (karen.westwood@aad.gov.au) at the Australian Antarctic Division following the methods of Wright et al. 2010.

## Reference

Simon W. Wright, Rick L. van den Enden, Imojen Pearce, Andrew T. Davidson, Fiona J. Scott, Karen J. Westwood. Phytoplankton community structure and stocks in the Southern Ocean (30–80°E) determined by CHEMTAX analysis of HPLC pigment signatures, Deep Sea Research Part II: Topical Studies in Oceanography, Volume 57, Issues 9–10, 2010, Pages 758-778, ISSN 0967-0645, https://doi.org/10.1016/j.dsr2.2009.06.015.