

# COLLECTION STANDARD OPERATING PROCEDURE

## PARTICULATE ORGANIC CARBON (POC) & PARTICULATE NITROGEN (PN)

### I. Sample collection

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- Wear protective gloves to avoid contamination
- Samples are collected from the appropriate Niskin bottles into acid-clean plastic bottles avoiding contamination
- Precombusted Glass Fiber Filters (Whatman GF/F, 25 mm in diameter) are dipped in HCl 10% and placed in the inline custom-built filtration rig
- Filters are rinsed with Double Distilled Water (DDW)
- The sample is homogenized by hand-mixing
- A variable volume (0.5-6 L) is filtered
- Filters are then washed with 20 mL of DDW, and immediately stored in a polycarbonate Petri dish appropriately marked at  $-20^{\circ}\text{C}$  until analysis.
- A blank filter (with no sample filtrated through) is placed in a Petri dish at the same time, so to estimate the filter contribution

### II. List of material, equipment and supplies

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- Plastic bottles
- Vacuum pump
- Filtration system
- Precombusted Whatman GF/F filters, 25 mm diameter
- Tweezers
- HCl 10%
- DDW
- Polycarbonate Petri dishes