# **EXPORTS North Atlantic WHOI OTZ Ship Situational Awareness**

Date: 05/04/2021

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# Today, the Sarmiento de Gamboa accomplished

First full day of cruise. Heading to A2 and stopped for test station. 0900 start deploying new MOC10 cable to 3000m with weight and return, then 1100 Sting Ray deploy/retrieve, 1300 MOC10 deploy/retrieve, 1500 CTD to 1000m and 1700 test underway towed fish. Like all first tests at sea, we learned a lot about deck operations and equipment handling, but no insurmountable issues found and operations will be much smoother as a result. On CTD/Rosette the UVP and SUNA-N sensors appear to be working. Need to adjust underway fish so it can fly deeper to avoid bubbles. Turned on EK80 but won't test until tomorrow with drop keel lowered. Started entering events in R2R. Also several exchanges with other EXPORTS ships about hydro depths to best coordinate with light levels, traps, pumps etc.

# Tomorrow, the Sarmiento de Gamboa will...

This is mostly a day for steaming 10-11 knots to A2 site. Along the way we plan to work further to improve underway sampling with fish (slow down and test some time in first half of day) and diaphragm pump to both reduce bubbles in line and be able to tow at 10 knots. Will use tomorrow to be certain Captain and mates are happy with asset tracking and coordination between ships

### Sarmiento de Gamboa ship plans through the next 3 days...

We still plan on Thursday to start of A2 sampling as soon as we arrive, initial CTD and deployment of drifter that includes a sound source and two UVP cameras at 100 and 200m. Sled will be used if time available on early hours of May 6th, in anticipation of coordinated day/night MOC tows between Sarmiento MOC10 and Cook MOC1 nets on May 6 starting 10 am, repeating same tow line with Sting Ray after MOC10 sampling. Will need target lat/long for coordinated tow- obviously weather dependent, though we hope these coordinated net tows and Sting ray sampling will take place before projected worsening of the weather Fri/Sat.

### System Status...

All systems that have been used today are operational though still in testing phases of many such as EK80.

### Group Status...

The value of a test station was clear with each operation learning valuable lessons in conditions of relatively calm seas and with all hands available for learning different aspects of deck operations, sampling and sample processing. We will be ready to go when we reach A2 field site!