Thermosalinograph operation

SOCIB-Research Vessel Facility

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1.   INTRODUCTION

The aim of this document is to describe a standardized procedure to conduct the setup and operation onboard of the RV SOCIB thermosalinograph.

2.   RELATED DOCUMENTS

- http://www.seabird.com/sbe21-seacat-thermosalinograph

3.   THERMOSALINOMETER CONFIGURATION

- PCLAB2
- COMM number
- Seaterm software
- NeReIDAS data acquisition system

4.   PROCEDURE DEVELOPMENT

1) Y_tank
2) Tank drain

3) Fresh water tap
4) Tank input
5) Y_drain
6) SBE21 drain
7) Output

4.1. Before leaving harbor

● Be sure that the output handle is open.

● Check thermosalinograph input handle is closed.

4.2. After leaving harbor

● Ask bridge to turn on continuous pump.

● Check that water is leaving through the output tube.

● Open thermosalinograph input.

● Close output tube.

● Open "Y_tank" pass above Thermosal tank to allow water volume to get in.

● Fill thermosal tank at ¾ approximately.

● Close "Y" pass above once the volume in tank is ready.

- Switch on the thermosalinograph deck unit (SeaCAT/Sealogger unit).

- Turn on seaterm software in PCLAB2 configure connection settings and launch data acquisition.
- Check system output water.
- Be sure propper system water output to the sea.
- restart NEREIDAS service: ***sudo service scbvessel_nereidas_raw restart***

4.3. Before arriving harbor

- Stop SADO Thermosalinograph software in PCLAB2.
- Stop Thermosalinograph deck unit.
- Ask bridge to stop the continuous pump.
- Open output and close tank input. Check that there is no water flowing. through the output.

- Open tank sink and open "Y" to let air get in.

- Connect fresh water hose to tank input.

- Close tank sink and flush with freshwater until the tank is full. Close "Y" air when filled.
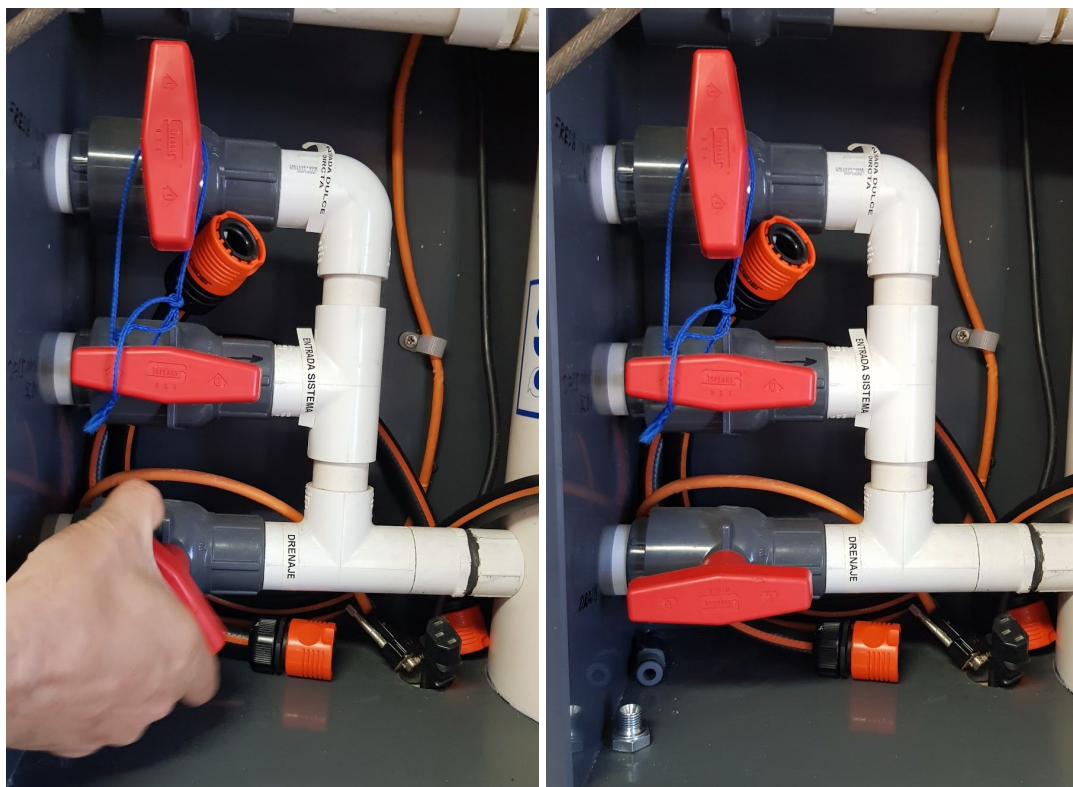
● Open output sea to check the flushing.

● Empty the thermosalinograph tank and drain.

● Open white drain.

● Close fresh water tap and change hose again to reconnect tank input.

- Close "Y" air.

- Close white drain. Be sure to leave output handle open and input tank closed. Be sure to leave "Y" drain tank open.