Fluorometer (ECO FL(RT))

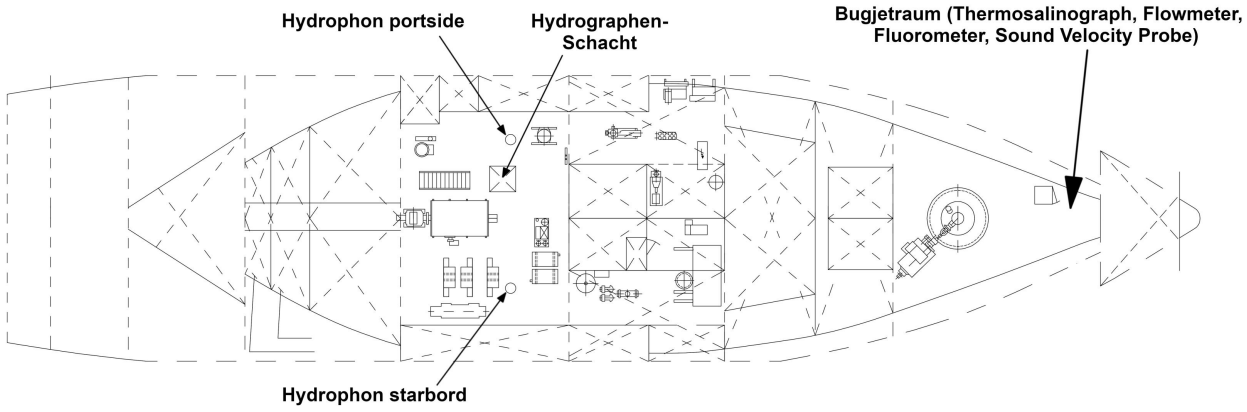
> **Attention:**
>
> The device is running autonomously. For details see contact information.

Summary

ECO FL(RT) chlorophyll-A fluorometer measure fluorescence from chlorophyll-a. Chlorophyll-a fluorescence is an indicator of active phytoplankton biomass and chlorophyll concentrations. This measurement is used for tracking biological variability and abundance in the water column.

Manufacturer	WET Labs (now Sea-Bird)
Model	ECO FL(RT) chlorophyll-a
Serial No.	FLRT 1496
Type	fluorometer
REGISTRY-Link	REGISTRY (8563)

Locations on RV Heinckes tank deck



Contacts

Name	Institution	Role
Ralf Krocker	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research	Engineer In Charge

Components

The fluorometer is installed together with the Valeport Mini SVP in a stainless steel piping system through which sea water taken at 3 m depth is pumped. Calibration factors are integrated in DShip. The fluorometer measures Chlorophyll-a ex/em: 470/695 nm with a resolution of 0.01 µg/l in the range 0.01 to 125 µg/l.

No subdevices available.

Position

Info	The fluorometer is installed in a flow through water tank in the bow room of the tank deck.
X	0.0 (no unit given) (no description given)
Y	0.0 (no unit given) (no description given)
Z	0.0 (no unit given) (no description given)

Data logging, storage and archiving

Logged parameters

Parameter	O2ARegistry Output Type	Unit
chlorophyll concentration	chlorophyll a	g/l

Central geographical ship's position and time standard

Rawdata storage on board

DShip

Data archiving on land

Documentation

- WETLabs-ECO-FL manual (User Manual, 3 MB)
- WETLabs-ECO-FL datasheet (Factsheet, 254 kB)
- Calibration certificate 2020 (Calibration Certificate, 324 kB)