Carl von Ossietzky
Universität
Oldenburg

ICBM · CARL VON OSSIETZKY UNIVERSITY · D-26111 OLDENBURG

Faculty V - School of Mathematics and Science

INSTITUTE FOR
CHEMISTRY AND BIOLOGY OF
THE MARINE ENVIRONMENT
(ICBM)

INTERNET
www.icbm.de

Cruise Report: Skjoldmöen (190313)

Objective: In situ measurements including concentrations of chlorophyll-a (as indicator for biomass) and photosynthetic efficiency (both with a fluorescence sensor); the latter describing how well phytoplankton do photosysnthesis and useful as a stress indicator.

Method: The in situ sensors were implemented in a flow-through systems connected to a pump and sampling hose. The hose was attached to rigid horizontal beam mounted over the side of the sailing vessel Skjoldmöen, and weighted to keep it at a depth of 2 meter. The cruise was intended as a trial for an upcoming circumnavigation of the world.

Results: Unfortunetaly, we had several technical difficulties. At first, the hose was not deep enough immersed and the pump sucked air through the system while the vessel were rolling, even at lower sea states. We believe that was the reasoning while the pump failed shortly. These are the reasons why no scientific data are available

We thank the Directorate of Fisheries for the permission to conduct our trial of equipment.

Best regards

(Oliver Wurl)

Prof. Dr. Oliver Wurl
Carl-von-Ossietzky University Oldenburg
Institute of Chemistry and Biology of the Marine Environment
Schleusenstrasse 1
26382 Wilhelmshaven, Germany
Phone +49 (0)4421 944228
Email: oliver.wurl@uni-oldenburg.de