

# Reference Installations



# 4H FERRYBOX

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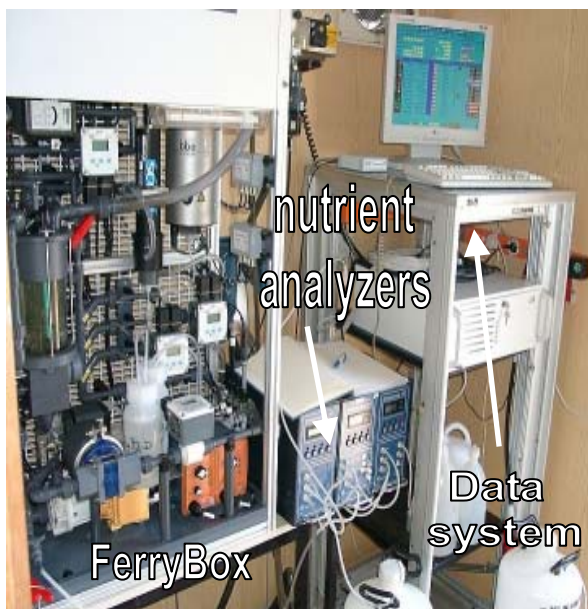
#### Scientific Adviser

Dr. Friedhelm Schroeder  
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Web : [www.gkss.de](http://www.gkss.de)

## Station Elbe weir

**Operator:** GKSS Research Center, Germany  
**Contact person:** Dr. Friedhelm Schroeder, [friedhelm.schroeder@gkss.de](mailto:friedhelm.schroeder@gkss.de)  
**Location:** Elbe weir close to Hamburg, Germany  
**Type:** Stationary River monitoring  
**Parameters:** Temperature, salinity, dissolved oxygen, pH, algae classes, chlorophyll-a-fluorescence, turbidity, ammonia, phosphate, nitrite/nitrate, silicate, data transfer via internet



## Station research vessel “Ludwig Prandtl”, Germany

**Operator:** GKSS research center, Germany  
**Contact person:** Dr. Friedhelm Schroeder, [friedhelm.schroeder@gkss.de](mailto:friedhelm.schroeder@gkss.de)  
**Operational area:** German Bight, Baltic Sea  
**Type:** Mobile Ocean monitoring  
**Parameters:** Temperature, salinity, dissolved oxygen, pH, algae classes, chlorophyll-a-fluorescence, turbidity, ammonia phosphate, nitrite/nitrate, silicate, GPS, GSM telemetry



## Station Helgoland, German Bight

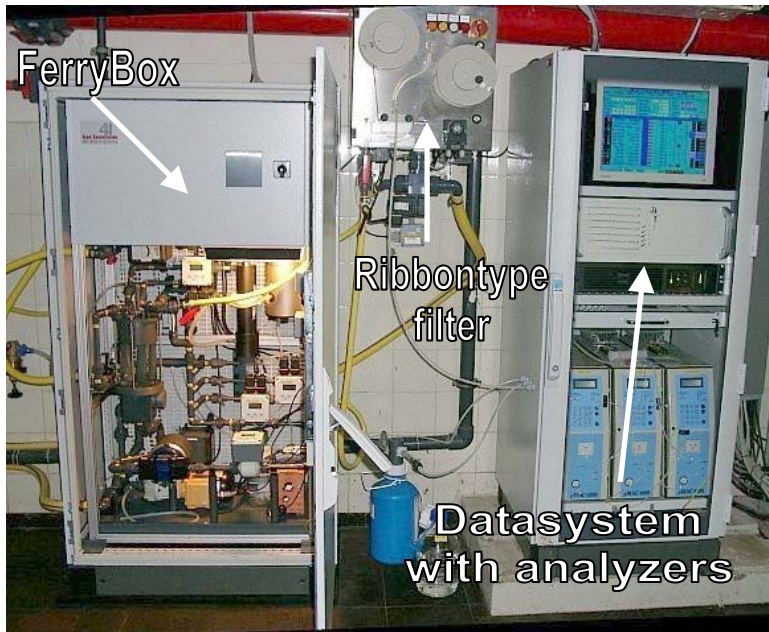
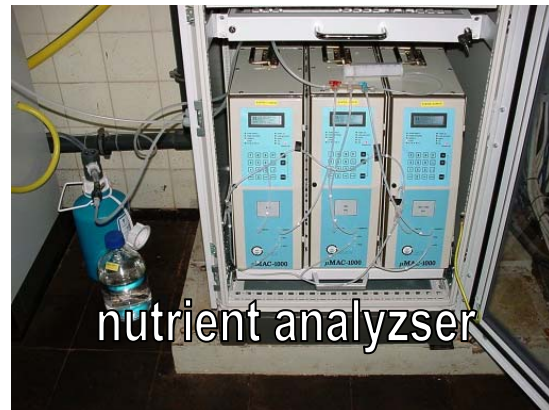
**Operator:** Alfred-Wegener-Institute for polar and marine research (AWI), Germany

**Contact person:** Dr. Karen Wiltshire, [kwiltshire@awi-bremerhaven.de](mailto:kwiltshire@awi-bremerhaven.de)

**Location:** Island of Helgoland, German Bight

**Type:** Stationary Ocean monitoring

**Parameters:** Temperature, salinity, dissolved oxygen, pH, algae classes, chlorophyll-a-fluorescence, turbidity, ammonia, phosphate, nitrite/nitrate, silicate, radio telemetry



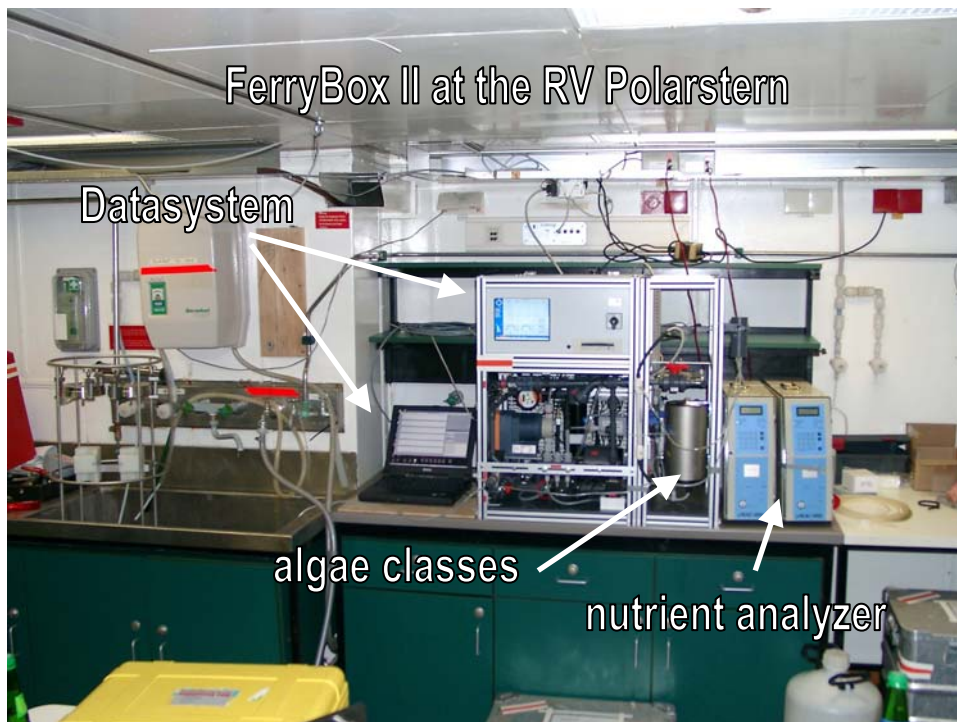
## Station ferry vessel “Kriti II”, Greece

**Operator:** National Center for Marine Research (NCMR), Greece  
**Contact person:** Dr. Harilaos Kontoyiannis, [hk@ncmr.gr](mailto:hk@ncmr.gr)  
**Route:** Athens (Piraeus) to Crete (Iraclion) (daily)  
**Type:** Mobile Ocean monitoring  
**Parameters:** Temperature, salinity, chlorophyll-a-fluorescence, turbidity, GPS, GSM telemetry



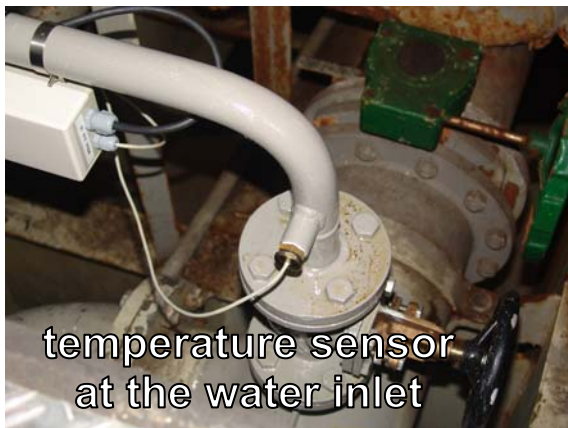
## Station research vessel “Polarstern”, Germany

**Operator:** GKSS research center, Germany  
**Contact person:** Dr. Friedhelm Schroeder, [friedhelm.schroeder@gkss.de](mailto:friedhelm.schroeder@gkss.de)  
**Operational area:** Atlantic, Antarctica  
**Type:** Mobile Ocean monitoring  
**Parameters:** Temperature, salinity, dissolved oxygen, pH, algae classes, chlorophyll-a-fluorescence, turbidity, ammonia phosphate, nitrite/nitrate, silicate, GPS, data transfer to vessel server



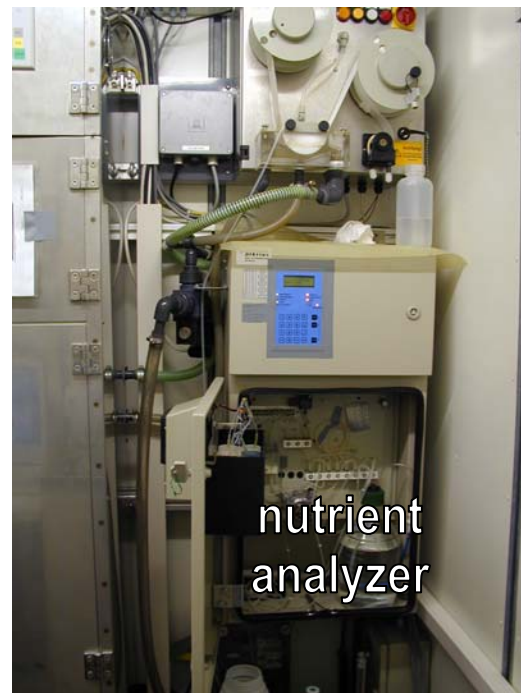
## Station research vessel „Zirfaea“, Netherlands

**Operator:** Rijkswaterstaat Directie Noordzee, Netherlands  
**Contact person:** Michel Hofsteede, [M.G.Hofsteede@dnz.rws.minvenw.nl](mailto:M.G.Hofsteede@dnz.rws.minvenw.nl)  
**Operational area:** Dutch coastal zones  
**Type:** Mobile Ocean monitoring  
**Parameters:** Salinity, pH, dissolved oxygen, Chlorophyll-a-fluorescence, turbidity, water temperature at the inlet, Event-controlled automatic water sampling, GPS, GSM telemetry



## Station Brantas River, Indonesia

**Operator:** -4H-, GKSS, Bapedal, JASA TIRTA I, BPPT  
**Contact person:** Dr. Didik Agus, [didikair@indo.net.id](mailto:didikair@indo.net.id),  
Manuel Unruh [manuel.unruh@4h-jena.de](mailto:manuel.unruh@4h-jena.de)  
**Location** Brantas River, Indonesia, East Java  
**Type:** Stationary River monitoring  
**Parameters:** Turbidity, dissolved oxygen, water temperature, pH, salinity, fluorescence, level, current, nutrients ( $\text{NO}_3$ ,  $\text{PO}_4$ ,  $\text{NH}_4$ ), TOC, wind direction, wind velocity, air temperature, global radiation



## Station research vessel “Uthörn”, Germany

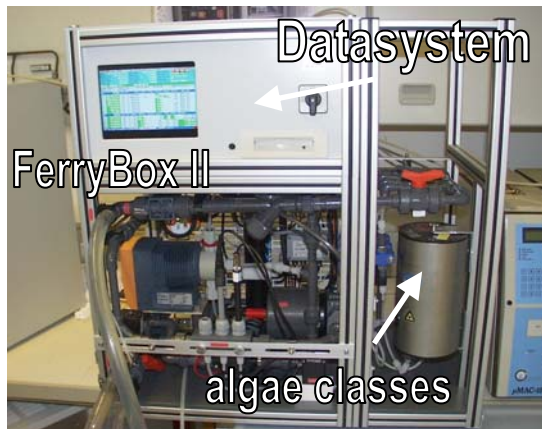
**Operator:** Alfred-Wegener-Institute for polar and marine research (AWI), Germany

**Contact person:** Prof. Karen Wiltshire, [kwiltshire@awi-bremerhaven.de](mailto:kwiltshire@awi-bremerhaven.de)

**Operational area:** German coastal zones

**Type:** Mobile Ocean monitoring

**Parameters:** Temperature, salinity, dissolved oxygen, pH, algae classes, chlorophyll-a-fluorescence, turbidity, inmasat telemetry



## Planned ferry vessel „Transcarrier”, Netherlands

**Operator:** Rijkswaterstaat Directie Noordzee, Netherlands  
**Contact person:** Michel Hofsteede, [M.G.Hofsteede@dnz.rws.minvenw.nl](mailto:M.G.Hofsteede@dnz.rws.minvenw.nl)  
**Operational area:** Dutch coastal zones (planned)  
**Type:** Mobile Ocean monitoring  
**Parameters:** Salinity, pH, dissolved oxygen, Chlorophyll-a-fluorescence, turbidity, water temperature at the inlet, Event-controlled automatic water sampling, GSM Telemetry

Actually the FerryBox installed vessel „Arca“



## Station research Ferry „Galaxy“, Estonia

**Operator:** Estonian marine institute Tallinn, Estonia  
**Contact person:** Urmas Lips, [urmas.lips@gmail.com](mailto:urmas.lips@gmail.com)  
**Operational area:** Baltic Sea  
**Type:** Mobile Ocean monitoring  
**Parameters:** T, S, Chl-a, Turbidity, inlet temperature, Nutrients (NO<sub>3</sub>-/NO<sub>2</sub>-)  
Water sampler, GPS, GSM telemetry



## Stationary Coastal monitoring Bay of Paranaguá

**Operator:** GKSS  
**Contact person:** Dr. Wilhelm Petersen, [Wilhelm.Petersen@gkss.de](mailto:Wilhelm.Petersen@gkss.de)  
**Operational area:** Continues monitoring of the physical, chemical and biological substances Of the Bay of Paranaguá  
**Type:** Stationary monitoring  
**Parameters:** T, S, DO, pH, Chl.-a, Turbidity, inlet temperature, pressure, Global radiation, GPS, GSM telemetry



## PocketFerryBox for field test

**Operator:** GKSS research center, Germany  
**Contact person:** Dr. Friedhelm Schroeder, [friedhelm.schroeder@gkss.de](mailto:friedhelm.schroeder@gkss.de)  
**Operational area:** Atlantic, Antarctica  
**Type:** Mobile Ocean monitoring  
**Parameters:** Temperature, salinity, dissolved oxygen, pH, algae classes, chlorophyll-a-fluorescence, turbidity, ammonia phosphate, nitrite/nitrate, silicate, GPS, data transfer to vessel server



## Station research Ferry “LysBris”, Germany

**Operator:** GKSS research center, Germany  
**Contact person:** Dr. Friedhelm Schroeder, [friedhelm.schroeder@gkss.de](mailto:friedhelm.schroeder@gkss.de)  
**Operational area:** Atlantic, Antarctica  
**Type:** Mobile Ocean monitoring  
**Parameters:** Temperature, salinity, dissolved oxygen, pH, algae classes, chlorophyll-a-fluorescence, turbidity, ammonia phosphate, nitrite/nitrate, silicate, GPS, data transfer to vessel server



## Project Galathea 3, Vessel Vaedderen, Denmark

**Operator:** Dansk Ekspeditionsfond, Denmark  
**Contact person:** Tommy Nielsen: tn@difres.dk  
**Operational area:** world wide  
**Type:** Mobile Ocean monitoring  
**Parameters:** Temperature, salinity, dissolved oxygen, pH, algae classes, chlorophyll-a-fluorescence, turbidity, ammonia phosphate, nitrite/nitrate, silicate, GPS, data transfer to vessel server



## Station research vessel “Tor Dania”, Germany

**Operator:** GKSS research center, Germany  
**Contact person:** Dr. Friedhelm Schroeder, [friedhelm.schroeder@gkss.de](mailto:friedhelm.schroeder@gkss.de)  
**Operational area:** Atlantic, Antarctica  
**Type:** Mobile Ocean monitoring  
**Parameters:** Temperature, salinity, dissolved oxygen, pH, algae classes, chlorophyll-a-fluorescence, turbidity, ammonia phosphate, nitrite/nitrate, silicate, GPS, data transfer to vessel server

