

Installation (short name)	Ferry Boxes Pont Aven / Armorique	
Location	Western Channel, Celtic Sea, bay of Biscay	
Route	<p>Armorique: Roscoff-Plymouth</p> <p>Pont Aven: Porstmouth-Santander, Plymouth-Santander Roscoff-Plymouth Roscoff-Cork</p>	
Legal name of organization	CNRS/INSU	
Location of organization	Roscoff, France	
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Description

The French Ferrybox network consists of two car ferries jointly operated by the Institut National des Sciences de l'Univers/Centre National de la Recherche Scientifique (INSU/CNRS) and the Institut Français pour l'Exploitation de la Mer (Ifremer). Together, these vessels cover 4 different lines: between Roscoff (France) and Plymouth (United Kingdom), between Roscoff (France) and Cork (Ireland), between Porstmouth (United Kingdom) and Santander (Spain) and between Plymouth (United Kingdom) and Santander (Spain). The Roscoff-Plymouth line is operated on a daily basis by M/V Armorique (2 transects per day) and the four lines operated on a weekly basis by M/V Pont Aven. More information about the ships and operated lines can be found at abims.sb-roscoff.fr/hf.

The ferrybox core installations include the following sensors: thermosalinograph (SBE-45), inlet temperature (SBE-38), AADI oxygen (optode), Turner Designs C3 turbidity, chlorophyll fluorescence and CDOM sensors. Since 2012 an additional Contros pCO₂ sensor has been installed on M/V Armorique.

The access to the ships can be done both in Roscoff, Plymouth, Porstmouth, Santander and Cork with a preference in Roscoff to benefit of the support team.

Service offered

CNRS/INSU and Ifremer will give access to the two ferryboxes for one or repeated periods of trips (days to weeks) for installation and testing of users' equipment on Ferry Boxes. We invite in particular (but not only) researchers interested in investigating methods for vertical profiling from ferries (e.g. XBT/XCTD experts) to apply for accessing the infrastructure and take part in gathering a unique dataset of simultaneous ferrybox and underway profiles.

Instruments/Sensors

The following instrumentation is already onboard the ferry and will be available to the JERICO users

Armorique

Instrument	Measured Parameter(s)	Elevation/Depth	Sampling frequency	Transmission frequency
SBE45	Temperature	4m depth	1 minute under normal conditions.	Once a day.
SBE38	Inlet temperature	4m depth		
SBE45	Salinity	4m depth		
AADI optode	Dissolved oxygen	4m depth		
Turner Designs C3	Turbidity	4m depth		
Turner Designs C3	Chl-a fluorescence	4m depth		
Turner Designs C3	Colored Dissolved Organic Matter	4m depth		
Contros	pCO ₂	4m depth		
ISCO	Water samples	4m depth	Not relevant	

Pont Aven

Instrument	Measured Parameter(s)	Elevation/Depth	Sampling frequency	Transmission frequency
SBE45	Temperature	4m depth	1 minute under normal conditions.	Once a day.
SBE38	Inlet temperature	4m depth		
SBE45	Salinity	4m depth		
AADI optode	Dissolved oxygen	4m depth		
Turner Designs C3	Turbidity	4m depth		
Turner Designs C3	Chl-a fluorescence	4m depth		
Turner Designs C3	Colored Dissolved Organic Matter	4m depth		

Additional services/data
Other activities within the Roscoff Observatory are linked to a fixed multiparametric buoy (http://application.sb-roscoff.fr/astan/) and multiparametric low frequency (14 days) activities with the french SOMLIT network (http://somlit.epoc.u-bordeaux1.fr/fr/)
Special owner rules
CNRS/INSU and Ifremer's personnel will join the trips as a minimum of the installation and introduction to the ship, crew and system.