## Agenda of 12th FerryBox Workshop 1.-2. October 2024

#### Day 1: Tuesday 1 October 2024

#### 8:30-9:30 Registration + coffee, setting up posters

9:30 Welcome & Opening words

Sami Niemelä, Finnish Meteorological Institute Lauri Laakso, Finnish Meteorological Institute Jukka Seppälä, Finnish Environment Institute

#### **Session 1 FerryBox studies in the Baltic Sea (Chair Anna Wranne)**

9:45	Alg@line, 30+ years of FerryBox measurements in the Baltic Sea Jukka Seppälä, Finnish Environment Institute
10:00	Multidisciplinary research at Utö Atmospheric and Marine Research Station, the Baltic Sea Lauri Laakso, Finnish Meteorological Institute
10:15	Detection of filamentous cyanobacteria blooms using imaging and pulse shape flow cytometry, and optical sensors Kaisa Kraft, Finnish Environment Institute
10:30	Spatio-temporal development of cyanobacteria bloom in the Baltic Sea during summer 2023 Lumi Haraguchi, Finnish Environment Institute
10:45	Overall discussion
11:00-11:15	Group photo and bio-break
11:15	Development of a Gas-Equilibrium – Membrane-Inlet Mass spectrometer (GE-MIMS) for continuous N2, Ar and O2 measurements on a voluntary observing ship to quantify nitrogen fixation in the Baltic Sea Sören Iwe, Leibniz-Institute for Baltic Sea research
11:30	An analysis of temperature, salinity and potential energy variability in the surface layer of the Estonian sea area using ten years of R/V Salme ferrybox data Urmas Lips, Tallinn University of Technology
11:45	Air-sea CO2 exchange at Utö in the Baltic S Martti Honkanen, Finnish Meteorological Institute
12:00	Seasonal variations of surface pH and pCO2 in the Baltic Sea and the Kattegat-Skagerrak - observations from FerryBox systems Madeleine Nilsson, Swedish Meteorological and Hydrological Institute
12:00 12:15	Skagerrak - observations from FerryBox systems

### Session 2 FerryBox in collaborative projects (Chair)

13:30	FerryBox Task Team Andrew King, Norwegian Institute for Water Research:
13:45	Next Generation Multiplatform Ocean Observing Technologies for Research Infrastructures Janne-Markus Rintala, ICOS ERIC Head Office
14:00	SailingBox: a citizen science measuring system for sailing boats and yachts Stephan Deschner, Helmholtz-Zentrum Hereon
14:15	Racing for the planet: Citizen Science on Racing Yachts in Global ClimateResearch Jana Fahning, SubCtech GmbH
14:301	All the colors of the ocean. Advancement in remote sensing technology Urszula Kedzierska, University of Gdansk
14:45	Impact of Storm Daniel on the Black Sea biogeochemistry Yoana Voynova, Helmholtz-Zentrum Hereon
15:00	Overall discussion
15:15-15:45	Coffee

### Poster Session (Chair Katri Kuuppo)

-17:30 Posters with some refreshments

19:00 - Dinner at restaurant Zetor

# Day 2: Wednesday 2 October 2024

## Session 3 FerryBox data and products (Chair)

10:30	Coffee
10:15	Overall discussion
10:00	Serendipity at the Strait: The discovery of a natural oil seep in the Strait of Magellan through FerryBox surveys Danilo Astorga-Gallano, Universidad Austral de Chile
9:45	Ferrybox data from ship to your desktop Ludovic Drouineau, Ifremer
9:30	Information Technology applied for harmonization, quality control, and dissemination of data provided by the Surface Water Sampling System of the IEO Gonzalo Gonzales Nuevo, Instituto Español de Oceanografía
9:15	FBDataM, an R package to process high resolution data from Ferry Boxes and more Alain Lefebvre, Ifremer
9:00	Utilizing of FerryBox data in combination with other information sources for forecasting of cyanobacterial blooms Heikki Peltonen, Finnish Environment Institute

## Session 4 FerryBox Technologies (Chair)

11:00	FerryBox plankton observations in the Baltic Sea and the Kattegat-Skagerrak using bio-optics and automated imaging in flow – focus on cyanobacteria blooms Bengt Karlson, Swedish Meteorological and Hydrological Institute
11:15	Advanced Phytoplankton Monitoring in Ocean Research Tobias Boehme, bbe Moldaenke GmbH
11:30	AlgaeOnlineAnalyzer as part of a FerryBox - technical improvements and results operating in the German Wadden Sea Dagmar Daehne, Coastal Defense and Nature Conservation Agency
11:45	Unattended eDNA filtering on a Ferrybox Pierre Jaccard, Norwegian Institute for Water Research
12:00	Advancing Ocean Observation: New Instrumentation for FerryBox Systems in the NAUTILOS Project Manolis Ntoumas, Hellenic Centre for Marine Research
12:15	Overall discussion

12:30-13:30 Lunch

# Session 4 continues: FerryBox Technologies (Chair)

13:30	Enhancing the traceability of fluorometer measurements; report from project MINKE including Metrology Workshop on Monday 30.9.2024 Jukka Seppälä, Finnish Environment Institute
13:45	Experiences from calibration of standard bio-optical sensors Kai Sørensen, OceanObs AS, Norway & Norwegian Institute for Water Research
14:00	Microplastics - (almost) everywhere but still difficult to sample? Maik Grunwald, -4H-JENA engineering GmbH
14:15	Lessons Learned from Designing a Ferrybox with Microplastic Sampler Karl Vene, Flydog Marine
14:30-	Discussions and overall feedback
15:30	Coffee
17:00	End of the workshop