



9th FerryBox Workshop
24-26 April 2019
Genoa Aquarium

Agenda & Logistics

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biological · biophysical · engineering



Day 1: Wednesday 24 April 2019

14:00-14:45 Opening remarks and updates from EuroGOOS, EEA, JERICO-RI, and EMODnet Physics

EEA and EuroGOOS update

G. Nolan / European Global Ocean Observing System (EuroGOOS)

JERICO-NEXT/JERICO-S3 update

L. Delauney / French Research Institute for Exploitation of the Sea (IFREMER)

Short update on EMODnet Physics and Ingestion

A. Novellino / ETT/EMODnet Physics

14:45-15:45 Session 1: Status of FerryBoxes in different regions (Chairs: tbd)

Common use of new FerryBox-line data in the North Sea as a contribution to the next MSFD reporting on eutrophication – Experiences from JMP EUNOSAT and the NorSOOP project

K. Borst, P. Jaccard, and K. Sørensen / Rijkswaterstaat (RWS)

Experiences with a FerryBox operating in the Wadden Sea

D. Daehne and A. Ritzmann / Coastal Research Station – NLWKN

Experience from the Norwegian FerryBox network in national monitoring

K. Sørensen, M. Norli, A. King, P. Jaccard, S. Marty, A. Ledang, D. Hjermann, T. Kristiansen, and W. Eikrem / Norwegian Institute for Water Research (NIVA)

FerryBox for continuous observations: launching a new route in the Antarctic

K. Tuholukova, V. Komorin, and E. Dykyi / National Antarctic Scientific Centre of Ukraine (NASC)

15:45-16:15 Coffee break

16:15-17:00 Session 2: FerryBox techniques and sensors (Chairs: tbd)

Advances in chemical sensor developments

S. Aßmann / Kongsberg Maritime Contros GmbH

Application and experiences with automated carbon sensors in FerryBox systems

M. Gehrung / Helmholtz-Zentrum Geesthacht (HZG)

Field test of a reliable and Easy to use microLFA based nutrient sensor package for Ferrybox On-line monitoring applications

L. Sanfilippo, P. Jaccard, A. King, S. Marty, T. BlaksethP. Moscetta, E. Savino, and K. Sorensen / SYSTEASpA

19:00 Icebreaker – light dinner (provided courtesy of sponsors listed on page 1!)

Day 2: Thursday 25 April 2019

9:00-10:45 Session 2: FerryBox techniques and sensors (cont'd) (Chairs: tbd)

NuLAB wet chemistry nutrient analyser

V. Dauben, A. Davidov, and V. Kelly / MacArtney Germany GmbH

Determination of nutrients in seawater via NuLab Nutrient Analyser

H. Thomas and D. Blandfort / Helmholtz-Zentrum Geesthacht (HZG)

Oil spill detection in the Baltic Sea using FerryBox system equipped with UV-fluorometer

S. Pärt, T. Kõuts, and K. Vahter / Tallinn University of Technology (TTU)

4H-FerryBox – Past, present, and future

M. Grunwald / -4H-JENA engineering GmbH

Applying novel, cross-disciplinary technology to improve measurements at sea on ships of opportunity

S. Kirby / Chelsea Technologies Group

Advanced Phytoplankton Monitoring in Ocean Research

T. Boehme / bbe moldaenke GmbH

Measuring Current from commercial vessels with Nortek Speed Log

O. Myklebust and M. Brien / Nortek Group

10:45-11:15 Coffee break

11:15-13:15 Session 3: Modelling and data handling (Chairs: tbd)

EMODnet Physics

A. Novellino, P. Gorringe / ETT/EMODnet Physics

European FerryBox Database: Moving on

G. Breitbach and W. Petersen / Helmholtz-Zentrum Geesthacht (HZG)

Data management and quality control procedures within ICOS Ocean Thematic Centre

B. Pfeil / ICOS, University of Bergen (UiB)

FerryBox data for ecosystem modelling

A. Ritzmann and D. Daehne / Coastal Research Station - NLWKN

A new approach to automatic quality control and API access to FerryBox data; application usage by assimilating data into ocean models

T. Kristiansen / Norwegian Institute for Water Research (NIVA)

Identification of spatial hydro-biological structures by spectral clustering. Towards implementation of machine learning for FerryBox data processing

A. Lefebvre, K. Grassi, and E. Poisson-Caillaut / French Research Institute for Exploitation of the Sea (IFREMER)

A multiplatform intercomparison of FerryBox Data

C. Frangoulis, A. Kalampokis, M. Sotiropoulou, M. Ntoumas, M. Pettas, S. Christodoulaki, G. Korres, L. Perivoliotis, and G. Petihakis / Hellenic Centre for Marine Research (HCMR)

Use of FerryBox data to complement environmental monitoring and fisheries surveys on the RV

Cefas Endeavour

K. Collingridge, E. Capuzzo, V. Creach, N. Greenwood, S. Wright, J. van der Kooij, and M. Devlin / Centre for Environment, Fisheries and Aquaculture Science (Cefas)

13:15-14:30 Lunch (provided)

14:30- 16:00 Session 4: Carbon cycle observations (Chairs: tbd)

Invited talk: *Measuring carbon dioxide in the ocean - an overview over the scientific network and current practices*

M. Becker / ICOS, University of Bergen (UiB)

Invited talk: *Surface seawater biogeochemical measurements from long transects of the Atlantic by ships of opportunity*

S. Hartman, V. Macovei, U. Schuster, and R. Sanders / National Oceanography Centre (NOC)

The ICOS impact assessment report – the first impact study for a distributed environmental research infrastructure

W. Kutsch, J. Van Belle, E. Riikonen, G. van Veen, and J. Rintala / ICOS ERIC head office

Sailing meets science - Innovative Ocean Monitoring

S. Raimund, S. Marx, S. Gutekunst, P. Landschützer, B. Herrmann, and T. Tanhua / SubCtech GmbH

16:00-18:00 Exhibit and Poster session (with coffee)

Exhibit booths by:

-4H-JENA engineering GmbH

bbe moldaenke GmbH

EMODnet

EuroGOOS

MacArtney Germany GmbH

Nortek Group

SubCtech GmbH

Systea SpA

Posters:

QuinCe: An online tool for processing and quality control of surface ocean CO₂ measurements

S. Jones and J. Henriksen / ICOS OTC/Bjerknes Climate Data Centre, University of Bergen

A FerryBox system equipped with a passive sampling unit for micropollutants: a case study in the Western Mediterranean

M. Schintu, A. Marrucci, B. Marras, A. Bettoschi, C. Sanna, and N. Montero / Università di Cagliari

Validation of remote sensing algorithms using the Norwegian ship of opportunity network

S. Marty, P. Jaccard, M. Norli, A. King, and K. Sørensen / Norwegian Institute for Water Research (NIVA)

Phyto-OPS: a tool for visualisation of phytoplankton data from FerryBox, HPLC and flow cytometry

K. Collingridge, S. Hare, and V. Creach / Centre for Environment, Fisheries and Aquaculture Science (Cefas)

18:00 Dinner on your own

Day 3: Friday 26 April 2019

9:00-10:15 Session 4: Carbon cycle observations (cont'd) (Chairs: tbd)

Seasonal and spatial variability of pCO₂ and total alkalinity in the North Sea – Observations from continuous FerryBox measurements

W. Petersen, Y. Voynova, and M. Gehrung / Helmholtz-Zentrum Geesthacht (HZG)

DOM and nutrients from rivers to coast: observations and experimental results

A. King, H. Frigstad, M. Norli, R., Ø. Kaste, and K. Sørensen / Norwegian Institute for Water Research (NIVA)

pCO₂ measurements in the Baltic Sea

A. Wranne, B. Karlson, and M. Wenzer / Swedish Meteorological and Hydrographical Institute (SMHI)

Underway atmospheric monitoring of Southern Ocean carbon uptake

C. Aiken / Proyecto FOCA, PUC

10:15-10:45 Coffee break

10:45-12:00 Closing session

Future perspectives on FerryBoxes and Ships of Opportunity with regards to EuroGOOS, JERICO-RI, EMODnet, ICOS; FB Task Team open discussion, 10th FerryBox workshop plans

12:00 Lunch (provided) and free visit to aquarium

Logistics for 9th FerryBox workshop

Emergency contact: Andrew King +47 982 27 725; Wilhelm Petersen +49 4152 872358; Antonio Novellino +39 010 6519116 (local organiser)

Dates & times: 14:00 Wednesday 24 April to 12:00 Friday 26 April 2019

Location

Acquario du Genova
Area Porto Antico, Ponte Spinola
16128 Genova
<https://www.acquariodigenova.it/en/>

Transportation

Air: Fly to Genoa Cristoforo Colombo Airport (GOA)

From airport to meeting venue you can take a taxi or take public transportation:

<https://goo.gl/maps/FNMNKtQp1FA2>

Hotels - some suggestions that are ~100 Euro per night:

<http://www.bbtlefinestresulportoanticogenova.it/?lang=en>
https://www.bestwestern.com/en_US/book/hotels-in-genova/best-western-hotel-porto-antico/propertyCode.98234.html
<http://la-superba.com/>
<https://www.bbggenovaportoantico.it/>

Reviews for the above hotels can be read on Tripadvisor.com, as well as many others in the area.