2016 A connected ocean & EuroGOOS

joint workshop programme

The challenge of observation data integration 11-13 Oct 2016 - Brest, France

an international conference in the framework of the 10^{th} edition of **SER BREST-FRANCE**

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joint workshop programme

all participants are invited to the

Sea Tech Week opening session

Tuesday October 11 th , morning ▶ Le Quartz, "Grand Théatre"	
9:45	Welcome of attendees
10:00	Short welcome speeches (by the mayor of Brest and a representative of Brittany region)
10:10	Introduction of the main theme of Sea Tech Week "Ocean and Digital technologies", by IEEE-OES, partner of Sea Tech Week // René Garello
10:20	Keynote on advances in digital technologies applied to marine science // Susan Avery
10:45	 Round-table discussion "digital technologies in different marine science areas" Ocean characterization // Kate Moran, ONC Security and safety // Jean-Guy Fontaine, NURC/NATO Biology // A. Murat Eren, University of Chicago Ocean Racing
11:45	Presentation of expertise in marine sciences and technologies in Brit- tany, through the local cluster "Campus Mondial de la Mer". This session will be moderated by a journalist (Anne Chevrel). A pinch of humor will be brought by Sébastien Chambres , member of the "Impro infini" improvisational theater company.

Notes to "A Connected Ocean" participants

- Posters will be on display all day Tuesday-Wednesday, near the coffee breaks.
- Invited talks are 30min, including questions.
- Contributed talks are 15min long+5min questions (= 20min sessions).

► Le Quar)ctober 11 th , afternoon tz, "Petit Théatre" ed Ocean plenary session (joint with EuroGOOS)
14:00	Introduction of ACO // A.M. Treguier, R. Garello
14:10	Big Data Meets Big Water: the Example of the AIS Ship Tracking Data // Stanley Matwin
14:40	Standards for interoperable marine sensors: technologies and adoption // Thomas O'Reilly
15:10	Addressing the grand technological challenges in ocean observation in Europe // Christoph Waldmann
15:40	Coffee break, poster session. Floor 2 mezzanine
16:00-18:00 Interoperable	marine data: What is the Blue Growth potential?
16:00	EuroGOOS Marine Open Data in Europe: opportunities for industrial Blue Growth stakeholders // Vicente Fernandez, EuroGOOS
16:30	User Perspectives: François Batifoulier, Open Ocean, France Pieterjan Serruys, dotOcean, Belgium
17:00	Ifremer, France Atlantic data integration through EU AtlantOS project // Sylvie Pouliquen, Ifremer, France
17:30	Discussion. Moderator: J an-Bart Calewaert , EMODnet
18:30 - 21:00 Welcome cock	ctail at "Plateau des Capucins", offered by Brest Métropole and

Welcome cocktail at "Plateau des Capucins", offered by Brest Métropole and Crédit Agricole Filière Mer. Transportation by tramway

A CONNECTED OCEAN

Wednesday October 12th, morning

Le Quartz, room nº 8

9:00-10:40

Big Data infrastructure and analytics in ocean science Session chair: Stan Matwin, Dalhousie University, Canada

9:00	Linked Ocean Big Data: Exploring connections between marine data- sets in a Big Data world // Adam Leadbetter
9:20	Is deep learning relevant for ocean remote sensing data? A case study on satellite-derived SST data // Ronan Fablet
9:40	Using Big data for Good: deriving ocean data products that are useful to Society. // Benoit Pirenne
10:00	Sea Ice Navigation Risk Assessment in the Canadian Arctic // Laurent Etienne
10:20	Coffee break, poster session. Floor 2 mezzanine
	nergies in ocean studies René Garello, Télécom Bretagne, France
Multimodal sy	
Multimodal sy Session chair: R	René Garello, Télécom Bretagne, France IndexMed projects: new tools using the CIGESMED DataBase on Co- ralligenous for indexing, visualizing and data mining based on graphs
Multimodal sy Session chair: R 10:50	René Garello, Télécom Bretagne, France IndexMed projects: new tools using the CIGESMED DataBase on Co- ralligenous for indexing, visualizing and data mining based on graphs // Romain David Measuring in water suspended particles by statistical learning of ocean

EUROGOOS SESSION

"The power of open-access interoperable marine data for the maritime sector: An untapped resource?"

Wednesday October 12th, morning

Le Quartz, room nº 7

9:00-12:3

Session chair: Jonathan Williams, Marine South East, UK

Introduction to the workshop objectives // Jonathan Williams

Panel and open discussion: Industrial applications of open access marine data: How to maximize uptake? // Jan-Bart Calewaert, EMODnet // François Batifoulier, Open Ocean // Pieterjan Serruys, dotOcean // Vicente Fernandez, EuroGOOS

Breakouts

• How can publicly funded marine information sharing initiatives develop to meet industry user needs? What are the specific needs of SMEs?

- What are the bottlenecks to more efficient exploitation of marine observation and data resources by the private sector?
- How to target users effectively (do they know we are here?)
- Breakout facilitators: **Oonagh McMeel**, Seascape Consultants // **Ayoze Castro**, Plocan // **Rogerio Chumbinho**, SmartBay Ireland

Networking and coffee

Reports from breakout facilitators

Panel and open discussion: What are the next steps to improve collaborations between public data initiatives and the private sector catalysing the conversion of information to innovation? // Jan-Bart Calewaert, EMODnet // Ayoze Castro, Plocan // Rogerio Chumbinho, SmartBay Ireland // Dina Eparkhina, EuroGOOS

Wednesd	Wednesday October 12 th , afternoon		
	A Connected Ocean parallel session: "Interoperability standards for the marine environment"		
🕨 Le Qua	► Le Quartz, room nº7, 14:00 - 18:00		
14:00	Convenors's introduction // Kenneth J. Foote, Woods Hole, USA		
14:05	Various tools to stimulate interoperability in ocean monitoring as expe- rienced by European Marine Research Infrastructures // Jean François Rolin		
14:25	Sextant, a Marine Spatial Data Infrastructure: implementation of OGC protocols for the dissemination of marine data at Ifremer // Catherine Satra Le Bris		
14:45	Standard-based middleware for marine sensor networks // Joaquin Del Rio		
15:05	Toward networked automatic coastal observatories: architecture and applications of vision sensors // Hozi Bao Lam		
15:25	Coffee break, poster session. Floor 2 mezzanine		
15:40	Cross-Domain Observational Metadata for Environmental Sensing // Janet Fredericks		
16:00	Sensor web enablement standard integrated services supporting ob- servatory operators, from sensor purchase to data preservation and publication // Gilbert Maudire		
16:20	Secure Data Communication Protocol for sub-sea cabled observatory // Fadi Obeid		
16:40	Synchronization Experiences at Obsea UPC // Joaquin del Rio		
17:00	PANEL DISCUSSION 1 Moderators: Eric Delory & Thomas O'Reilly Panel members: Joaquin del Rio, Jean-François Rolin, Catherine Satra Le Bris, Hozi Bao Lam, Fadi Obeid		
17:30	PANEL DISCUSSION 2 Moderator: Sylvie Pouliquen Panel members: Janet Fredericks, Gilbert Maudire, Joaquin Del Rio		

observatio	ons"
	u <mark>artz, room nº8, 14:00 - 17:30</mark> air: Anne-Marie Treguier, IUEM, France
14:00	ADCP observations of migration patterns of zooplankton in the Cretan Sea // George Petihakis
1430	Euro-Argo: a new European Research Infrastructure for climate change research and operational oceanography // Grigor Obolensky
14:50	Toward sustained and enhanced observations in the eastern tropical Atlantic based on the PIRATA network // Bernard Bourles
15:10	Automated techniques for studying phytoplankton dynamics in marine waters // Felipe Artigas
15:30	Coffee break, poster session. Floor 2 mezzanine
16:00	Automation for In Situ Multi-Stressor Biogeochemical Experiments // William Kirkwood
16:20	Analyzing seasonal, interannual and extreme climate variability in the caribbean sea upwelling system off colombia // Andrea Devis Morales
16:40	1,5 year of observations from the MELAX ocean-atmosphere mooring-observatory in the Senegalese coastal upwelling // Alban Lazar
17:00	ROUND TABLE Moderator: Richard Lampitt , long-term observation tasks of biological processes

For both sessions

17:40-19:00 POSTER viewing. Floor 2 mezzanine.

19:00 - 23:00 Social event at Le Quartz including Brittany buffet and concert of Bachar Mar Khalife.

