# JERICO-NEXT and OI London

# At a glance (version 11 march 2016)

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| When? | What? | Who? |
| Monday 14 March @ 17:30 | Preparatory meeting @ Tune Hotel - London, Canary Wharf, 21 Hertsmere Road West | WP1, 4, 5 leaders and co-leaders |
| Tuesday 15 march @ 8:30-15: 00 | Joint WP1 &4 workshop@ Holiday Inn Hotel | JRAPs participants |
| Tuesday 15 march @ 14:00-17:00 | Open Ocean & Coastal Observatories Workshop @ OI conference center | TNA interested participants, private sector, observatories users |
| Tuesday 15 march @ 15:00-17:00 | Time slot available in a meeting room @ Holiday Inn Hotel | Holiday Inn Hotel |
| Tuesday 15 march @ 18:30-19:30 or Wednesday afternoon | Meeting task 1.3 and task 1.4 (Place to define) | Partners of task 1.3 & 1.4 |
| Tuesday 15 march @ 13:30-17:00 | SensorWebEnablement workshop **@ OI conference center** | Data managers |
| Wednesday 16 march @ 9:00-11:30 | Technology Cluster Workshop@ OI conference center | Technology developers (WP3) , Private sectors |
| Thursday 17 March @ 9:00-12:40 | WP5 progress meeting@ Novotel Excel Hotel | WP5 partners |

**NB: to attend any event on site of the Oceanology international 2016, you need to register, even if it is free**: <http://www.oceanologyinternational.com/>

JERICO-NEXT

Joint WP4 & WP1 Workshop

& Other meetings

Scientific Strategy of the JRAPs

15th March 2016, London, UK

Objectives:

* Presentation of the JRAPs scientific strategy,
* Discussions to strengthen cross cutting towards a multidisciplinary approach.
* JRAPs data flow: how to manage it?

Where?

**Holiday Inn Express London- ExCeL**

**1018 Dockside Road**

**London, E16 2FQ**

Who?

JRAP leaders, JRAP participants, any available STAC members, anybody interested

How?

Please register on doodle pool**:** <http://doodle.com/poll/xemqbs83dn2vzupr>

What?

Preparation of the workshop: Template of D4.1 to be circulated near the 10 march.

*Agenda : version 11/03/2016*

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| Time slot | Topic | Speaker | Observations |
|  | | | |
| ***Joint WP4 &WP1 workshop Tuesday, 15th of March*** | | | |
| 8: 30-9:00 | *- Introduction:*  *- Link with Task1.1*  *- identified cross cuttings and questions to solve* | Ingrid  ?  ? |  |
| 9:00-10:30 | **JRAPs presentations: 20’+10’discussion each**  *- JRAP 1, 2,3* | JRAP leaders |  |
| 10:30-10:50 | **break** |  |  |
| 10:50-11:30 (not possible to put in the afternoon, LP to the SWE workshop) | JRAPs data flow: how to manage it? Recommendations from WP5 (20’presentation+ 20’discussions with JRAPs | L. Periviolotis | A document with recommendations and applied guidelines should be circulated to the JRAPs leaders before the meeting in order to get discussions |
| 11:30-13:00 | **JRAPs presentations: 20’+10’discussion each**  *- JRAP 4,5,6* | JRAP leaders |  |
| 13:00-14:00 | Lunch Break |  |  |
| 14:00-15:00 | **Discussion:** General discussion on the science strategiesandto strengthen cross cutting towards a multidisciplinary approach | Moderators: A. Grémare, D. Durand | A document based on D4.1 will be sent to the STAC members one week before the meeting to describe the strategy and possible cross cuttings. The STAC is expected to give a feedback on it. Maybe some members of the STAC would be there |

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WP5 Progress Meeting #1

17th March 2016, Oceanology International

London Excel, UK

***Meeting Place: Novotel Excel meeting room 4***

**Objectives:**

* Progress achieved during the first 6 months of the project on the several tasks of WP5
* Discussion on the next implementation steps

*Meeting Agenda*

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| **Time slot** | **Topic** | **Speaker** |
| 9:00-9:10 | **Introduction (HCMR)** | L. Perivoliotis |
| 9:10-09:30 | **Task 1:** Data policy and distribution **(EuroGOOS)**  Progress made so far  Suggestions/Ideas on the specifications towards a European Ferrybox data management system | Patrick Gorringe |
| 9:30-09:50 | **Task 2:** Integration of biological data **(VLIZ)**  JRAP data template processing regarding the biological data | Lennert Tyberghein |
| 09:50-10:10 | **Task 3:** Platform registration and metadata management system **(IFREMER)**  Presentation of the development made so far | Thomas Loubrieu |
| 10:10-10:30 | **Task 4:** Interoperable data flow from in situ measurements to archiving in data centers **(CNR-ISMAR)**  Progress made so far - First draft of the D5.9 report | Giuseppe Manzella |
| 10:30-11:00 | **Break** |  |
| 11:00-11:20 | **Task 5:** Enhancement of Quality Control procedures for sensor based biochemical data **(SMHI)**  Presentation of the detailed and robust plan for the implementation for the FerryBox QC procedures, as it was agreed during the kick-off in Mallorca. | Bengt Karlson |
| 11:20-11:40 | **Task 6:** Definition of Quality Control procedures for HF Radar data **(AZTI)**  Progress made so far - Summary of the discussions during the HFR workshop in San Sebastian | Anna Rubio |
| 11:40-12:00 | **Task 7:** Scientific calibration procedures on gliders data collection **(SOCIB)**  Presentation of the development made so far | John Allen |
| 12:00-12:20 | **Task 8:** Linking JERICO-NEXT activities to a Virtual Access infrastructure **(EuroGOOS)**  Presentation of the development made so far | Antonio Novellino |
| 12:20-12:40 | **Conclusion - Discussion (HCMR)** | L. Perivoliotis |

*List of Participants*

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| ***HCMR*** | Leonidas Perivoliotis  Margarita Bekiari |
| ***EuroGOOS*** | Patrick Gorringe |
| ***SOCIB*** | John Allen  Emma Helsop |
| ***IFREMER*** | Thomas Loubrieu  Loic Petit de la Villeon |
| ***CNR-ISMAR*** | Giuseppe Manzella |
| ***AZTI*** | Anna Rubio |
| ***SMHI*** | Bengt Karlson  Johanna Linders |
| ***OGS*** | Elena Partescano |
| ***HZG*** | Wilhelm Petersen |
| ***NIVA*** | Pierre Jaccard |
| ***MARIS*** | Peter Thijsse |
| ***ETT*** | Antonio Novellino  Paolo D'Angelo  Gicaomo Benedetti |
| ***VLIZ*** | Simon Clauss  Lennert Tyberghein |
| ***SYKE*** | Kaitala Seppo |

Meetings and workshops associated with JERICO-NEXT

Tuesday: - Open Ocean & Coastal Observatories Workshop

- SensorWebEnablement workshop

Wednesday: Technology Cluster Workshop

# Tuesday 15th March afternoon: Open Ocean & Coastal Observatories Workshop

## 14:00-17:00: Trade & Innovation Theatre

Open to all, showcasing the achievements of open ocean and coastal observatories and the new technologies evolving from the scientific activities of marine observatories across Europe. Attendees will learn about the business case for accessing ocean and coastal observatories; hear about the advances in standardisation, inter-operability, data management, online access to data, and sensor web enablement; and receive an invitation to access existing ocean and coastal observatories to test new equipment in controlled surroundings.

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see : [**http://www.oceanologyinternational.com/Whats-On/Trade--Innovation-Theatre/Open-Ocean-Workshop/**](http://www.oceanologyinternational.com/Whats-On/Trade--Innovation-Theatre/Open-Ocean-Workshop/)

**SCHEDULE:**

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| **14:05-14:25** | **The Business Case for Ocean and Coastal Observatories**  Nick O’Neill, SLR |
| **14:25-14:45** | **Open Access Data and Developing Oceanographic Products and Services for Maritime Users: Marine Observations and Forecasts for Use by Industry**  Glenn Nolan, EuroGOOS |
| **14:45-15:05** | **Sharing Ocean Observing Infrastructures for Science and Innovation**  Eric Delory, PLOCAN & Patrick Farcy, Ifremer |
| **15:05-15:25** | **Demonstration of Online Data Access to Ocean Observatory Data**  Shane Lavery, SLR |
| **15:25-15:45** | **The European Multidisciplinary Seafloor and Water Column Observatory (EMSO): A New Innovative European Marine Research Infrastructure Focused on Technology Development.**  **Observatories and facilities available for Trans-National Access in the JERICO-NEXT project.**  Paul Gaughan, Irish Marine Institute & P. Farcy/L. Delauney, Ifremer |
| **15:45-16:05** | **Standardising European Ocean Observatory Infrastructures for Scientific and Industry Impact Research and Monitoring Applications**  Henry Ruhl, NOC |
| **16:05-17:00** | **Question and Answer Session** |

## Tuesday 15th March afternoon: SensorWebEnablement workshop

## 13:30 -17:00: Oceanology International 2016

## Room 6 South Gallery of the Excel Centre, London, UK

Workshop Sensor Web Enablement (SWE) for oceanography, status of developments, international coordination and dialogue with industry, hosted by the EU-EuroFleets II project

Contact: Dick M.A. Schaap – MARIS (dick@maris.nl)

Aims of the Workshop:

* dissemination and creating awareness at a larger audience of what we are doing and what it might bring them
* identify industry contacts to start a further dialogue, followed by possible collaboration and implementation opportunities.

Who can attend: the Workshop is open for everybody. Target persons are developers and managers of operational oceanography observing systems on board of vessels and on networks of observation platforms; manufacturers of observation instruments and manufacturers of observation platforms; marine and ocean data managers. However registration beforehand is preferred in order to have an idea of participation.

Registration: registration beforehand is preferred in order to have an idea of participation. Please complete the Doodle with your name, affiliation and email address at: <http://doodle.com/poll/8mxm7y93uyda7x5e>

Draft programme: Presentations of 15 minutes with 5 minutes spare for some direct questions

13.30 – 13.40– registration

13.40 – 13.55– Introduction by Dick M.A. Schaap – MARIS (Netherlands) (short intro about Eurofleets, SWE importance and cooperation between several EU projects; programme of the Workshop; aims of the Workshops to establish dialogue with other interested parties, in particular industry (manufacturers of platforms and instruments, that will be followed up)

13.55 – 14.15– The Eurofleets2 on board data management system (EARS) development by Jordi Sorribas – CSIC (Spain) (concise presentation about development of EARS for research vessels with functions and modular components; ilustration how SWE standards will streamline the data flow from shipborne instruments to EARS to the shore; short explanation of developed profiles for selected instruments)

14.15 – 14.35 - Sensor Web Enablement (SWE) standards by Simon Jirka – 52North (Germany) (concise presentation about SWE, its components (SensorML, O&M, SOS), PUCK as alternative, state of the art and examples)

14.35 – 14.55– Importance of Controlled Vocabularies by Alexandra Kokkinaki – NERC-BODC (United Kingdom) (importance of vocabularies; SeaDataNet NVS services; ongoing developments as part of the SenseOcean project)

14.55 – 15.25– break for refreshments

15.25 – 15.45– The X-Domes project by Janet Fredericks – WHOI (USA) (concise presentation of the X-Domes project, its objectives and activities)

15.45 – 16.05– Presentation by industry 1 – tbd (industry party presenting their appreciation and use of SWE standards for platforms / instruments)

16.05 – 16.25 – Presentation by industry 2 – tbd (industry party presenting their appreciation and use of SWE standards for platforms / instruments)

16.25 – 17.00– Panel discussion and wrap-up by Dick M.A. Schaap – MARIS (Netherlands)

Abstract:

OGC provides a family of standards specifications called ‘Sensor Web Enablement’ (SWE) which includes detailed information about the sensors making measurements and the platforms that carry the sensors using the Sensor Model Language (SensorML), general models and XML encodings for sensor Observations and Measurements (O&M), and a protocol to provide access to observations from sensors and sensor systems in a standard way (Sensor Observation Service (SOS)).

Various projects are making progress to adopt SWE and develop standards that can be applied by operators of operational marine observation systems to describe in more detail their observations and to provide standardised access to these observations using the SOS service protocol. This can provide a way for direct access to the related data streams from operational sensor systems, such as real-time ocean monitoring networks and underway data from systems on board research vessels.

However, the broad range of activities using SWE standards leads to a risk of diverging approaches how the SWE specifications are applied. Because the SWE standards are designed in a domain independent manner, they intentionally offer a high degree of flexibility enabling implementation across different domains and usage scenarios. To avoid interoperability issues, an agreement is needed on how to apply SWE concepts and how to use vocabularies in a common way that will be shared by different projects, implementations, and users.

To address this need, partners from several projects and initiatives in Europe (such as Eurofleets / Eurofleets2, SeaDataNet II, BRIDGES, FixO3, JericoNext, NeXOS, SenseOcean, ODIP/ODIP II a.o.), USA (IOOS, X-DOMES), and Australia (AODN) have teamed up to develop marine profiles of OGC SWE standards that can serve as a common basis for developments in multiple projects and organisations.

The SWE Workshop will be organised by the EU-funded Eurofleets2 project with contributions of several of the other mentioned projects. An overview will be given of the present state of developments by means of a few concise presentations. In addition manufacturers of instruments and platforms will be invited for sharing their views on adoption of SWE standards. Furthermore a panel discussion will be included. This should lead to a fruitful dialogue for finetuning SWE standards in the near future.

## Wednesday 16th March morning: Technology Cluster Workshop

**09:00 – 11:30: South Gallery, Room 2**

Open to all, this will be an opportunity for end users of marine observation data to provide input to the managers of ocean and coastal observatories on the relevance and impact of different data sets to business activities. Marine environmental data is being generated by a large number of existing ocean and coastal observatories. SMEs can generate commercial products and services based on this data.  This workshop is designed to present what data is currently available and learn from the business community and end users which data sets have most relevance and impact in the different business sectors of shipping, ports, metocean forecasting, defence, submarine cables, marine environmental monitoring, deep sea mining, oil and gas exploration and offshore renewable energy operations.

Draft Programme

       09:00-09:30         Presentations on JERICO-NEXT, FixO3`and EMSODEV

       09:30-09:45         Introduction to facilitated workshop

      09:45-10:45         Facilitated Workshop- Impact and Utilisation of observatory data to commercial end users

      10:45-11:00         Feedback on input to workshop

      11:00-11:30         Explore opportunities to develop products and services

Contact: Nick O’Neill, SLR Consulting at [noneill@slrconsulting.com](mailto:noneill@slrconsulting.com)

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For an overview of OI events see : <http://www.oceanologyinternational.com/Whats-On/Associated-Events/>