

JericoNext HF Radar Workshop

Minutes

Venue : AZTI, Herrera kaia, Portualdea, Pasaia-Trintxerpe, SPAIN
Date : 9th-11th March 2016

Outline

The first transversal workshop on HF radar developments in JERICO-NEXT was held in San Sebastian on March 9th to 11th, 2016. This very successful meeting joined the main partners dealing with HF Radars in JERICO-NEXT, with participation of 22 people and 12 different Institutions from 7 European countries. The two main outcomes of the Workshop were (i) a joint review of the state-of-the-art of these observing systems (in terms of technology, procedures, maintenance, data processing, format, quality and management, identification of limitations and difficulties, applications, dissemination, etc.), and (ii) the coordinated planning of work in the different task related to HF radars. These tasks involve all JERICO-NEXT WPs: WP2 on the harmonization of new network systems, WP3 on the developments on current observations from HF radars, WP1 and 4 on Science strategies towards 4D characterization of trans-boundary hydrography and transport, WP5 on the definition of Quality Control procedures for HF Radar data and WP6 on Virtual Access to the data.

Objectives of the Workshop

The first objective for this JERICO-NEXT workshop, in the framework of Task 2.3, was to review the state-of-the-art of HF Radar systems in terms of technology, procedures, maintenance, data processing, format, quality and management, identification of limitations and difficulties, applications, dissemination, etc.). Then, JERICO-NEXT HF Radar community took advantage of this meeting for having specific sessions in order to plan and start working in a coordinated way on different tasks involving:

- WP2 T2.3 Harmonizing new network systems: HF Radar
- WP3 T3.2 Developments on current observations from HF radars
- WP4 T4.4 JRAP#4 4D characterization of trans-boundary hydrography and transport
- WP5 T5.6 Definition of Quality Control procedures for HF Radar data
- WP6 Virtual Access (HF Radars)

Participants /Institutions

Johannes Schulz- Stellenfletz	HZG
Jochen Horstmann	HZG
Annalisa griffa	ISMAR-CNR
Lorenzo Corgnati	ISMAR-CNR
Carlo Mantovani	ISMAR-CNR
Magnus Wenzler	SMHI
Celine Quentin	MIO-CNRS
Bruno Zakardjian	MIO-CNRS
Charles Troupin	SOCIB
Rinus Schroevers	DELTAIRES
Alkiviadis Kalampokis	HCMR
Antonio Novellino	ETT

Marco Alba	ETT
Ingrid Puillat	IFREMER
Patrick Gorringer	EuroGOOS
Louis Marié	IFREMER
Pierre Flament	Univ Hawaii
Guillaume Charria *	IFREMER
Anna Rubio	AZTI
Julien Mader	AZTI
Luis Ferrer	AZTI
Ainhoa Caballero	AZTI
José Luis Asensio	AZTI

*participated online in DAY3

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Summary of the sessions and discussions day by day

Please, for more details see the corresponding pdf file with the presented slides.

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DAY 1 – 9th March

WP2 T2.3 : Harmonizing new network systems, 1. HF Radar

9:00-9:30 Welcome and introduction (Julien Mader)

9:30-13:30 Short presentations (20min) per institute (I)

15:00-16:30 Short presentations (20min) per institute (II)

Overview of the Workshop and objectives and main deadlines for task 2.3 are presented:

D2.1. State of the art and diagnostic – due date: September 2016

D2.4 – Best practices – due date: end of the project.

MS9 – First workshop (this one!)

MS13- Second workshop planned initially in M38 (lead HZG) but that will be probably advanced to next year, around May 2017 (2.5 -3 day workshop). This new date seems more useful in view of the dates of the deliverables and could be planned on coordination with the next ROW in Germany.

For the review in D2.1, two levels of information are proposed:

- Within JERICO_NEXT
- Within Europe, broader approach sustained by the activities of EuroGOOS Task Team.

Individual presentation of each of the partners on the system operated/maintained/exploited by them are provided following the template proposed and covering these aspects: (i) Issues during the installation phase Site Selection and Approvals; Radar choice; Power; Communications; (ii) Main operational issues (iii) Site maintenance Schedule; Spares; (iv) Quality assessment; (v) Data management; (vi) Applications & Users, products; (vii) Other items interesting in T2.3 context.

These provided a first base towards the review needed for D2.1 in what concerns the HF radar systems in JERICO_NEXT

16:30-17:30 Workshop to organize the work for D2.1 : Report on the status of HF-radar systems Sep16 (lead: Jochen Horstmann)

A general overview of a proposed outline/index for the deliverable is given and discussed.

It is proposed and agreed to separate the report in two different reports, one for HFR and one for Cabled Observatories.

It is discussed on the need of distinguish in the report between the PA and DF systems.

Jochen will send the proposed index for discussion and organized the work on the deliverable following the information on expertise of the different partners gathered during the workshop.

DAY 2 – 10th March

WP5 T5.6 Definition of Quality Control procedures for HF Radar data

9:00-11:30 Synthesis of existing procedures and workshop to organize D5.13 (*HFR data implementation in European marine data infrastructures, including recommended common metadata and data model for HF radar*)

Due date for D5.13 is December 2016 but a first version is expected for Sept 2016 to be shared in EuroGOOS HFR Task Team and DATAMEQ WG.

Specific actions and deadlines identified on two main work lines:

A- Data model

- A classification of processing levels has been proposed (output of RITMARE presented by CNR) as a starting point for discussion → see annex1.
- Using this classification the data types/products that should be shared are:
 - LEVEL 2B radials with a minimum (and operational) set of QC/QA tests
 - LEVEL 3B totals with a minimum (and operational) set of QC/QA tests

NEXT STEPS: Review and comment from each partner

Deadline: May 15th

B- QA/QC, set common procedures for radials and for totals

- A review has been performed on current procedures used by each partner during DAY 1
- A discussion has been held on what should be the focus of the recommendation taking into account the expertise of the partners and the expected results of this task: Are we able to work at a very deep level on data processing at instrument level? Should we be focused on top levels (for users of the HF radar technology) making use on the available outputs (radial currents, signal to noise time series, etc)?
- Including at User level, some tests should depend on the type of technology (Phase array, Direction finding)
- A Discussion/review of IOOS- ROWG document (see annex2) has been agreed - in particular for adding a "WERA perspective". Look for expertise outside JERICCO_NEXT group. Coordination with HFR Task Team.

NEXT STEPS: Jochen Horstmann, with Pierre Flament, will lead this review

Deadline: May 15th

- Recommendations for further QA/QC tests and additional parameters needed for them (requirements for the systems providers)

NEXT STEPS: a first proposal will be produced based on the list of test recommendations from IOOS- ROWG doc. A number of those should be selected to adopt a minimum set for OPERATIONAL QC/QA:

CNR/AZTI lead the work on CODAR parameters

HZG and MIO for WERA

MIO will makes the link from their experience on both technology.

Deadline: July 15th

WP6 Virtual Access (HFR)

12:00-13:30 Discussion for coordinated and homogenized solutions from HFR systems

More definition is needed here to be able to coordinate the work. Methods to control access to threads serves and data are discussed as a first approach to provide indication on "virtual Access".

Indications from WP leader (CEFAS) are expected to better know the framework where HF radar partners would try to give some homogeneity to the products/services that will be delivered.

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WP3 T3.2 Developments on current observations from HF radars

15:00-17:30 Workshop to organize the work (lead: Annalisa Griffa)

The main deliverables, work lines and deadlines for this task and subtask are presented. The first report of results is due in M24, then a final report on M48.

The possible overlap between WP5 and WP2 and task 3.2.1 is debated.

Discussion on the definition of task 3.2.2 is started. One approach for the network development based on a new radar infrastructure in the Se BoB is proposed. Discussion on how OSSES in the Bay of Biscay can contribute to this task are also held with G. Charria on day 3, more definition is needed on this once the OSSES are ready.

Technical work concerning lagrangian estimates, progress on STP methods and products form HFR are presented by CNR, AZTI and HZG.

DAY 3 – 11th March

WP4 T4.4 JRAP#4 4D characterization of trans-boundary hydrography and transport

9:00-9:30 Overview to JERICO NEXT WPs1 and WP4 (Ingrid Puillat)

Overview of JERICO_NEXT as background for JRAP#4. The feedback from the WP1 and WP4 leaders on the first draft Of the JRAP#4 contributions to D4.1is presented and discussed.

9:30-10:30 Overview of JRAP#4 objectives, task and timelines (lead: Anna Rubio)

10:00-12:00 30min - presentations of the background and JRAP#4 scientific strategy main lines & actions per study area

12:00-13:30 Workshop to organize the work for the JRAP4 contribution to the D4.1 (Approaches to monitor European coastal seas)

The research activities conducted at CNRS-MIO, CNS-ISMAR, HZG and AZTI are presented individually. For each study area are provided the following points: Overview of the study area & background, Main activities in JERICO_NEXT (related ongoing work, new deployments, data analysis, timeline), Opportunities for crosscuttings with other WPs, JRAPS and within JRAP4 , Risks analysis and mitigation measurements.

Many lines for joint works are identified. Attention is given to the proximity of the second deliverable for WP4 – The first process report due date

Crosscutting possibilities between JRAP#4 and other JRAPS (mainly 3 and 6) and WPs (task 3.7) are discussed. Globally possibilities of crosscutting are foreseen in general terms (JRAP#4 will produce data products, transport maps of utility for the rest of JRAPS) but more precise crosscutting are limited due to the lack of multidisciplinary data. More work on this is foreseen to fee the second version of D4.1

The possibility of sending contributions on JRPA#4 work lines to different forums are discussed (ISOBAY could be a possibility for the SE BoB activities in JRAP#4)

Finally, two additional points highlighted by Ingrid:

-NEXT JERICO_MEETING on September 2016 with STAC members and TNA selection Panel. Additional inputs will be eventually needed and demanded for this meeting.

-The need to include new planning for all the meetings and workshops in the Google document set to this end.

