GEO GROUP ON EARTH OBSERVATIONS

37° 0

Fifth Meeting of Global High Frequency Radar

Network

Hugh Roarty Rutgers University

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AGENDA

Monday, December 12, 2016

6:00 pm to 6:15 pm	Ice Breaker, Marriot Marquis
6:15 pm to 6:30 pm	Opening Remarks, Hugh Roarty
6:30 pm to 6:45 pm	Update from Europe, Anna Rubio
6:45 pm to 7:00 pm	Update from Asia, Dongxiao Wang
7:00 pm to 7:15 pm	Update from the Middle East, Libe Washburn
7:15 pm to 7:30 pm	Update from the Americas, Lisa Hazard
7:30 pm to 7:45 pm	HF Radar as a New Observing Element of GOOS, Hugh Roarty
7:45 pm to 8:00 pm	ITU Bands and National Efforts Discussion, Simone Cosoli
8:00 pm	Meeting Ends



THANKS to Dongxiao Wang and South China Sea Institute of Oceanology for sponsoring refreshments





Previous Meetings



- London 2012
- Norway 2013
- Taiwan 2014
- Greece 2015

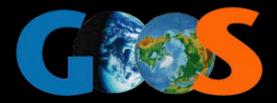




Fourth Meeting of the Global High Frequency Radar Network



September 22-23, 2015 Heraklion, Crete, Greece

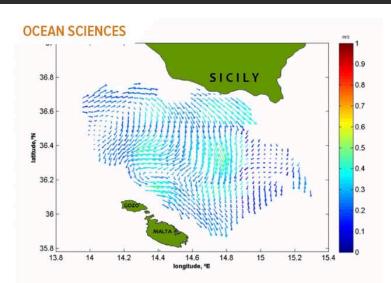


EOS Earth & Space Science News

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Meeting Reports

Dispatches from scientific meetings and conferences around the world



② 5 April 2016
Growing Network of Radar Systems Monitors Ocean Surface
Currents

Fourth Meeting of the Global High Frequency Radar Network; Heraklion, Crete, Greece, 22–23 September 2015

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Fostering Earth Observation & Global Awareness





earthzine.org

http://earthzine.org/2014/10/30/the-global-high-frequency-radar-network/

The Global High Frequency Radar Network

Amanda Lewan

By Dr. Hugh Roarty Research Project Manager Coastal Ocean Observation Laboratory Rutgers University

Co-authors: Ms. Lisa Hazard, Dr. Lucy Wyatt, Dr. Jack Harlan and Dr. Enrique Alvarez Fanjul

The Global High Frequency Radar Network is a vision for a global operational system measuring ocean surface currents to support monitoring of marine and coastal ecosystems. The measurement of ocean currents is fundamental to ocean forecasting. High frequency (HF) radar has proven to be an efficient tool for the measurement of surface currents along the coast out to 200 kilometers.



Goals for Global HF Radar Network

- 1) Increase the number of coastal radars
- 2) Ensure HFR data is available in a single standardized format in near-real-time,
- 3) Assimilate data into ocean and ecosystem models
- 4) A set of easy to use standard products
- 5) Worldwide Quality Standards
- 6) Develop emerging uses of HF radar



1) Increase the number of coastal radars

United States 130 Canada 8 Mexico 2 Brazil 2 Bahamas 2 Honduras 2

Norway 6 Portugal 4 Italy 6 Croatia 2 Spain 16 Ireland 2 Russia 1 France 2 Israel 2

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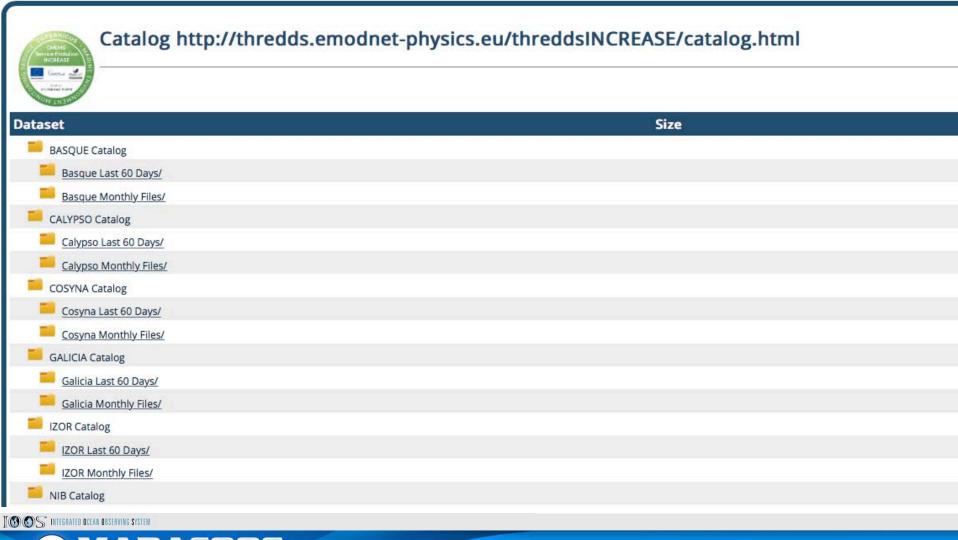
Japan 22 Korea 24 42 China 8 **Thailand 6** Malta 2 Taiwan 20 India 12 Vietnam 3 Indonesia 2 Jordan I UAE 2 Egypt 2 **Azerbaijan 2** Australia 5

Total Sales: ~298



Ocean Information for a Changing World

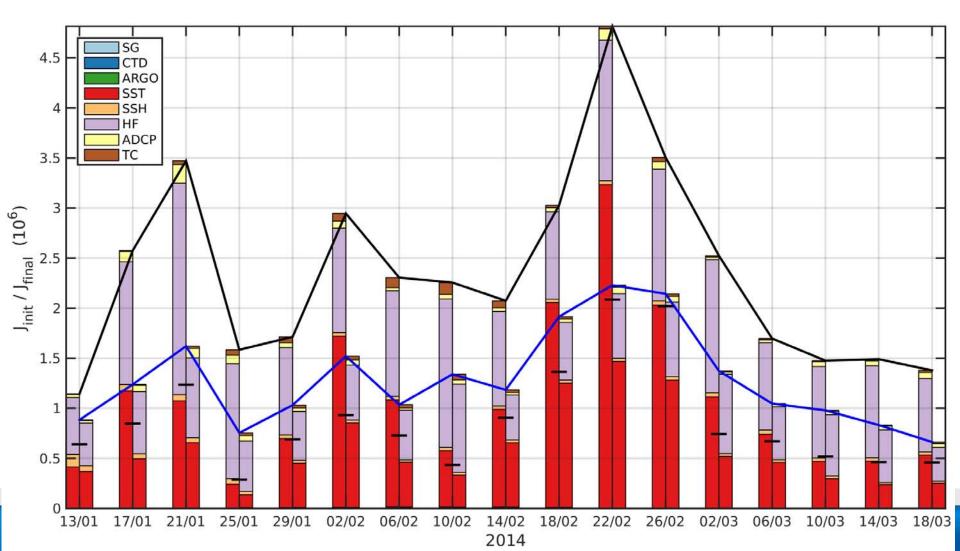
2) Ensure HFR data is available in a single standardized format in near-real-time,

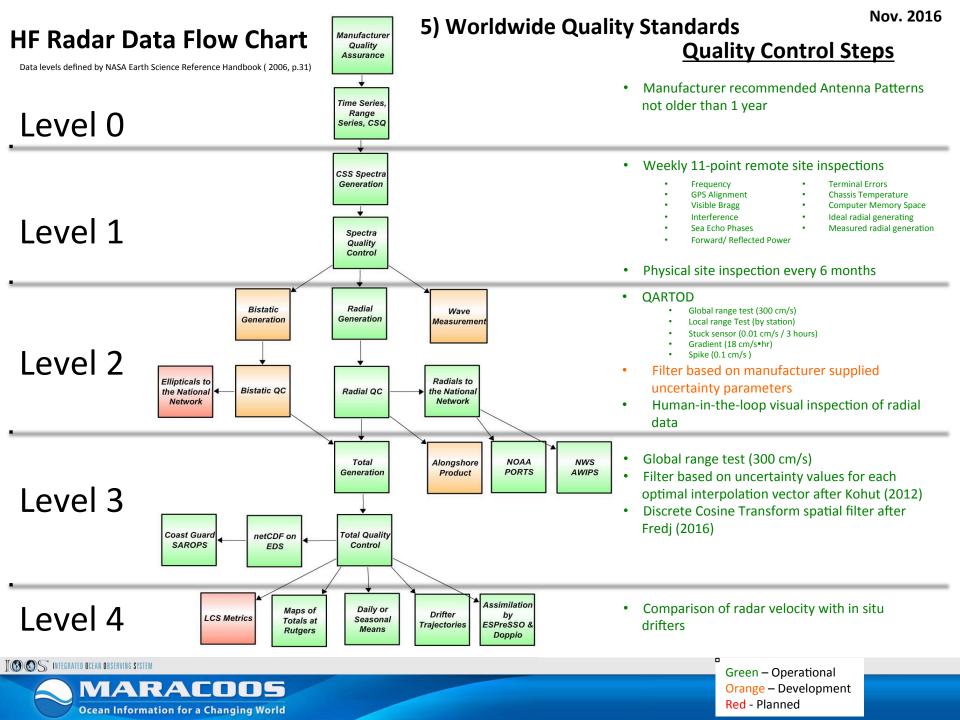




3) Assimilate data into ocean and ecosystem models Data Assimilation: WA (3 months)

~30 million data points assimilated





Global HF Radar Network

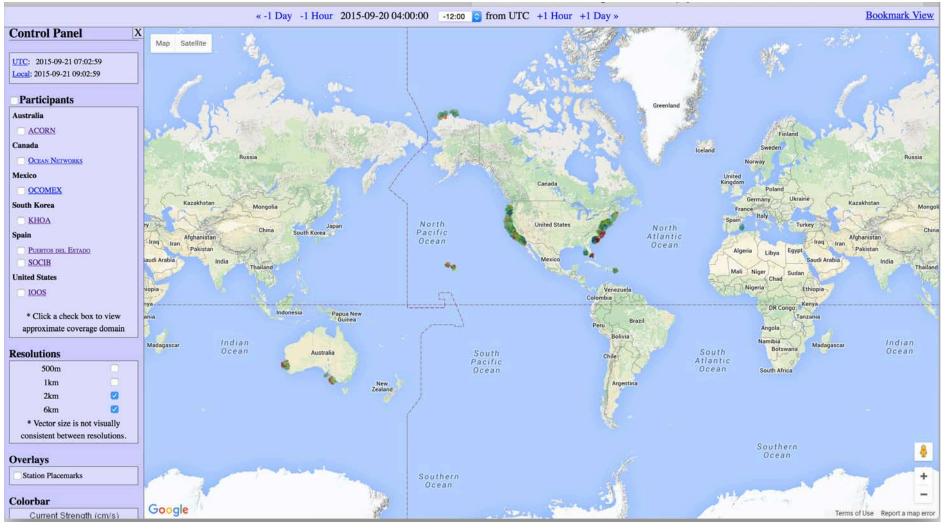


 Co Chairs -Hugh Roarty (USA) -Lisa Hazard (USA) -Simone Cosoli (Australia) –Jack Harlan (USA) -Lucy Wyatt (UK) -Enrique Alvarez-Fanjul (Spain)

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http://global-hfradar.org Global HF Radar Viewer



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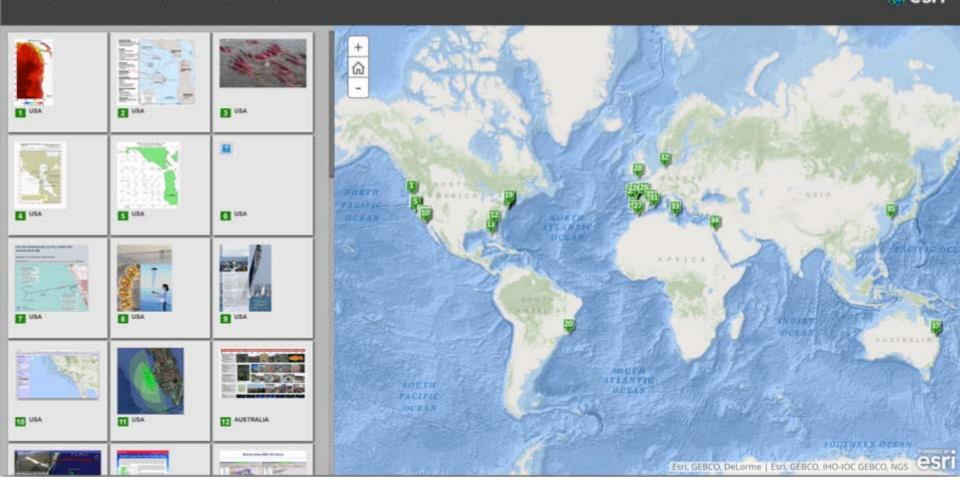


Application Success Stories

GEO Global High Frequency Radar Network

This map showcases the different applications of High Frequency radar measurements.





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