



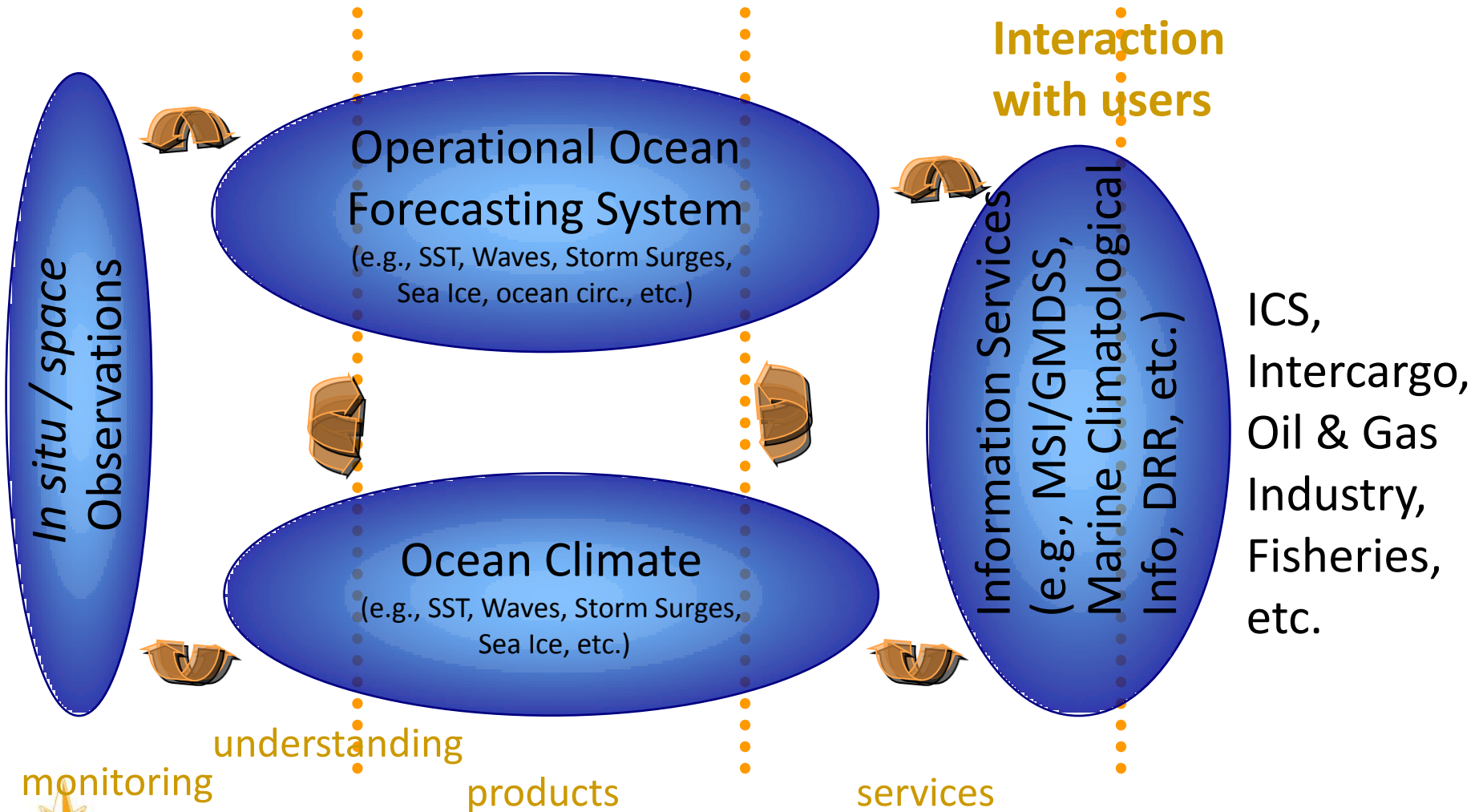
World Meteorological Organization

Weather • Climate • Water

WMO Activities relating to GMDSS Implementation

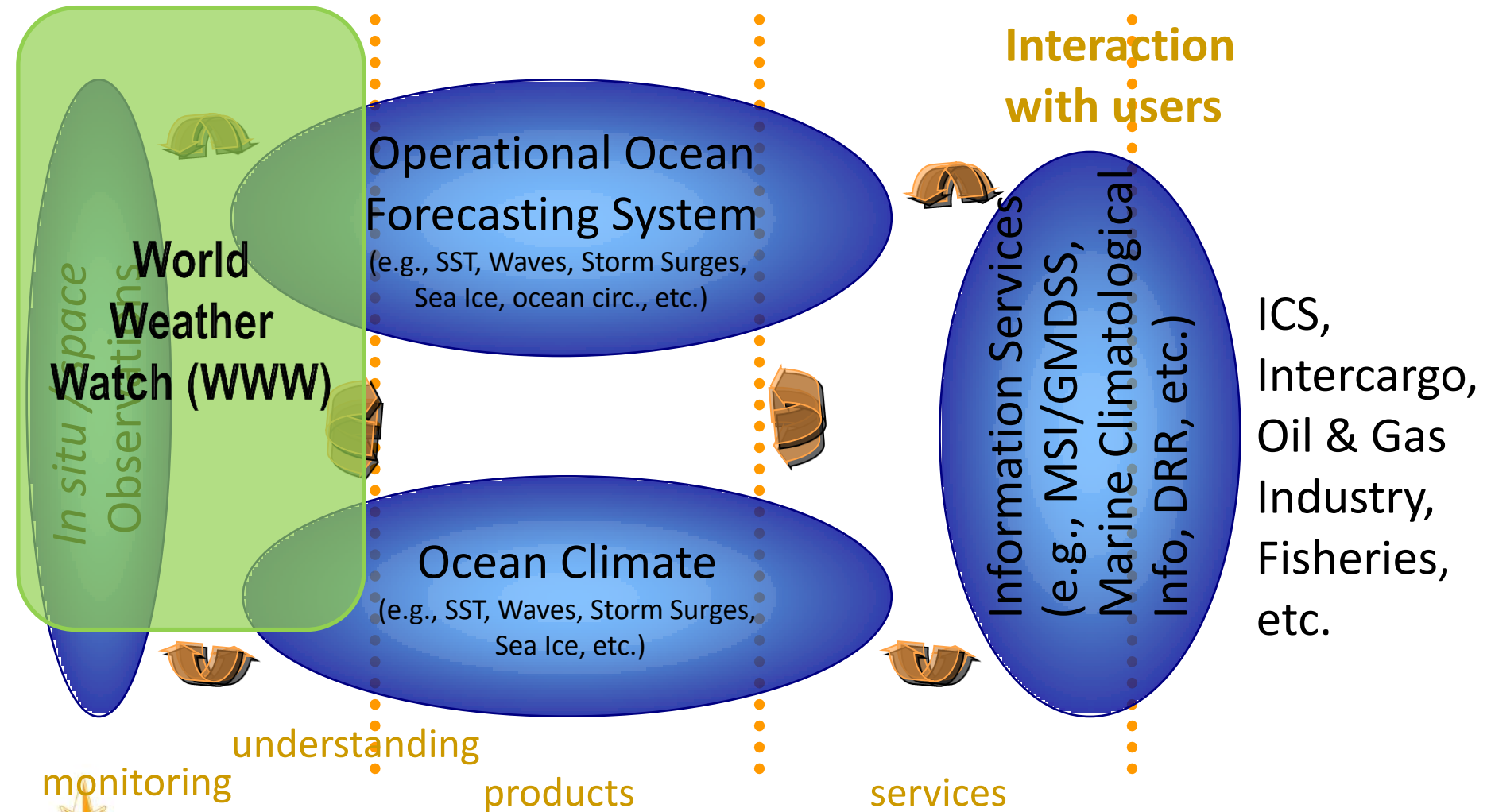
WMO and MetOcean Affairs

<http://www.wmo.int/Oceans>



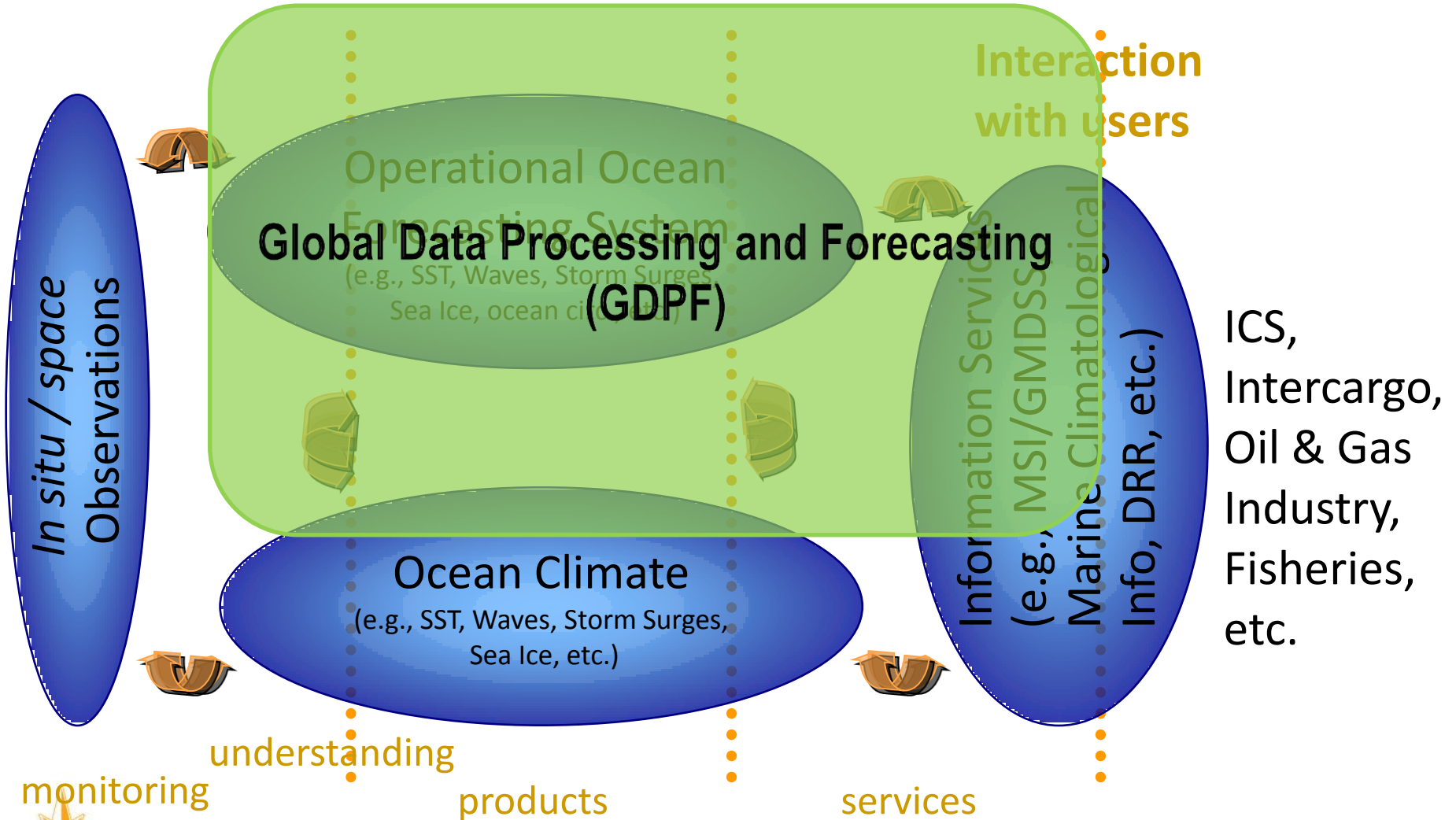
WMO and MetOcean Affairs

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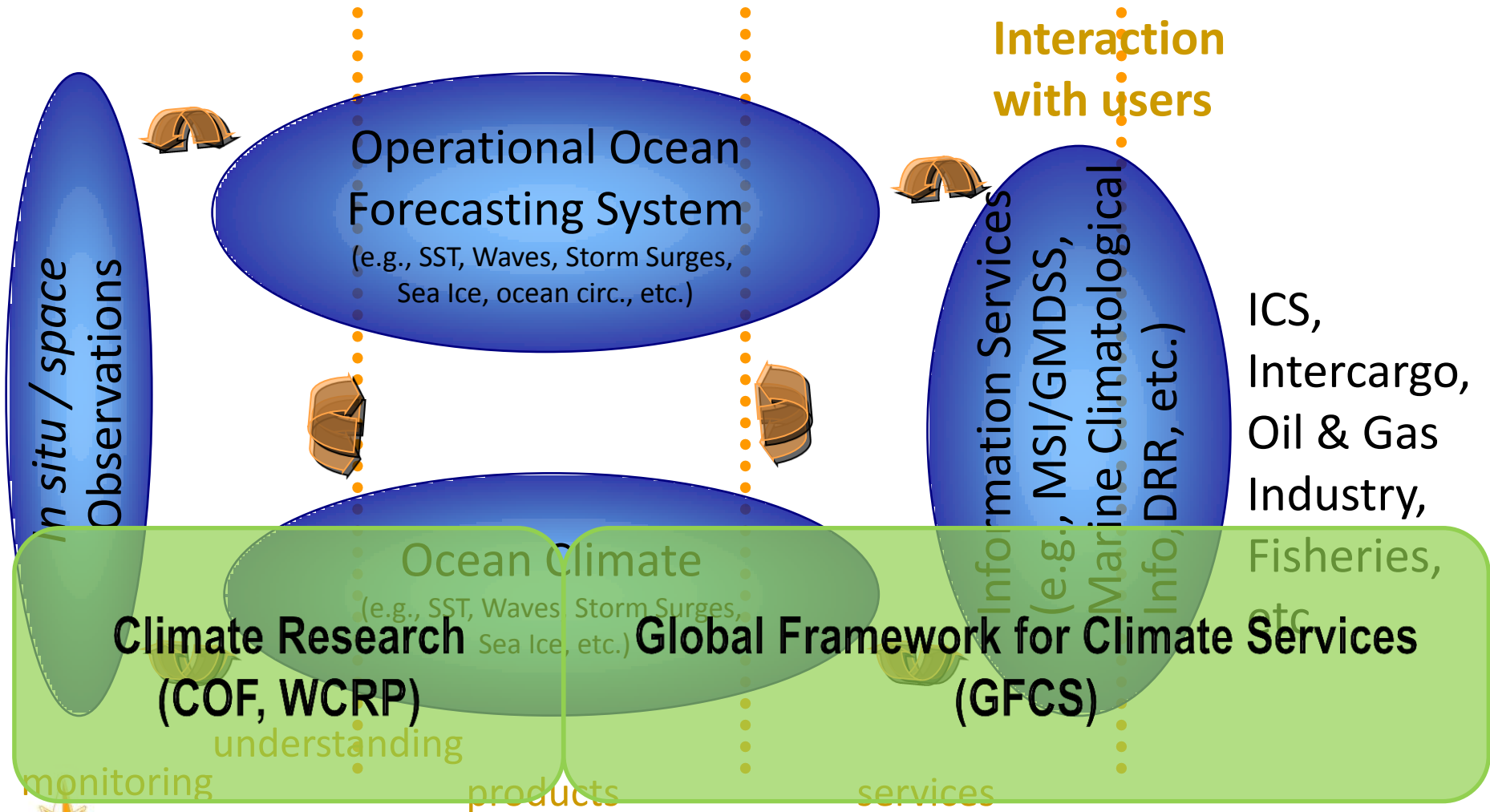
WMO and MetOcean Affairs

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WMO and MetOcean Affairs

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Technical Coordination through JCOMM

<http://www.jcomm.info>



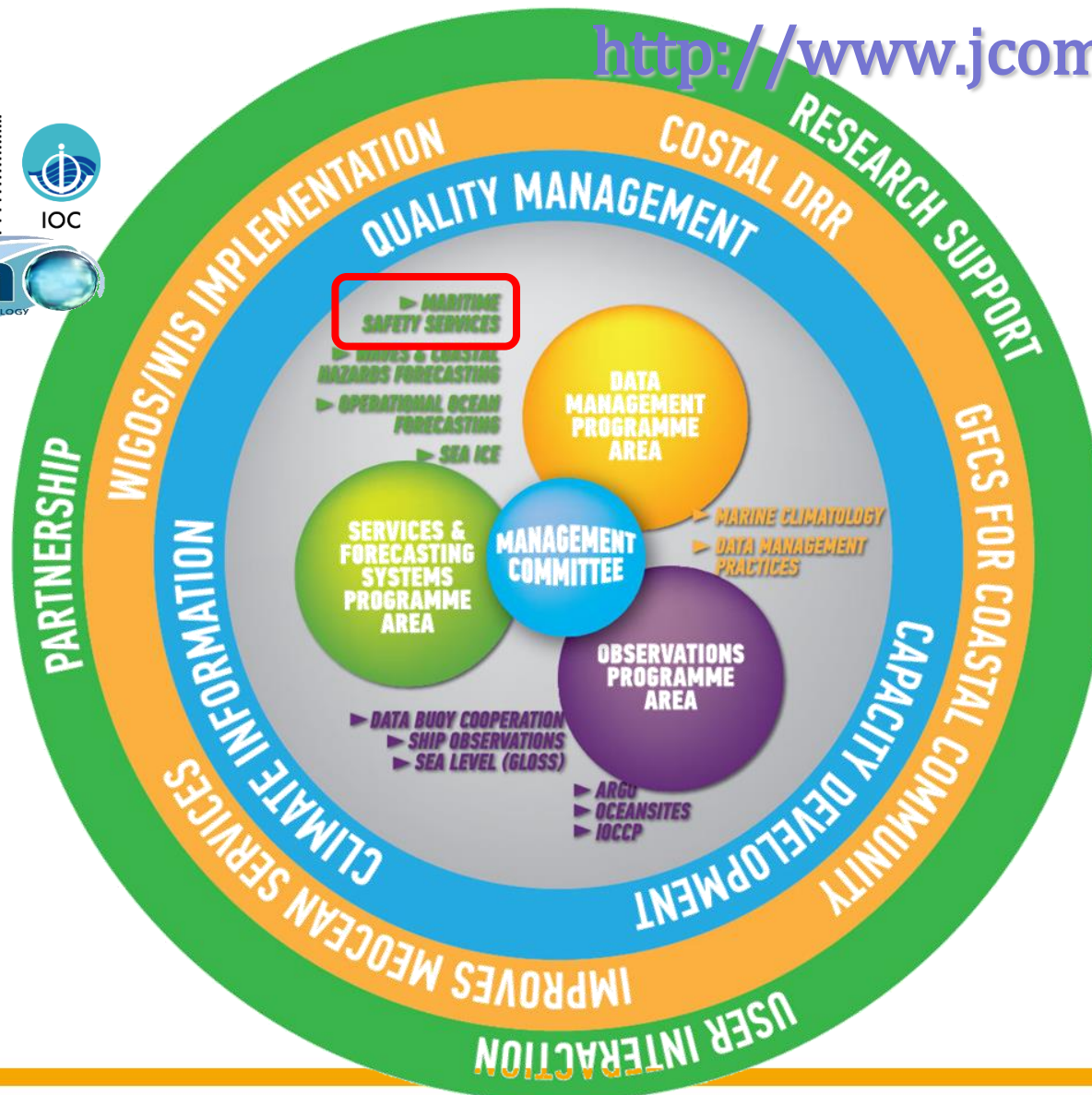
Technical Coordination through JCOMM

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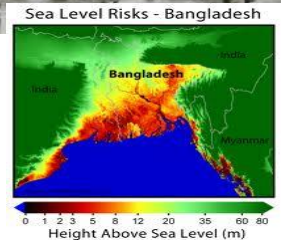
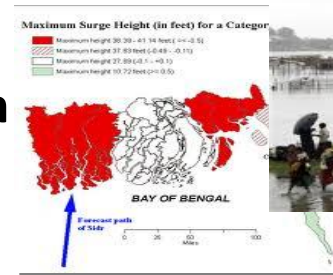
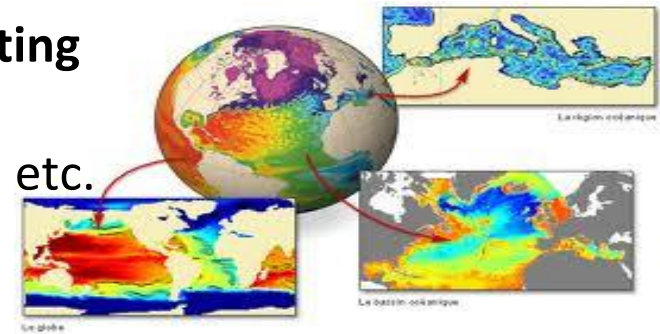
Technical Coordination through JCOMM

<http://www.jcomm.info>



Marine Services

- Enhanced efforts for **operational ocean forecasting system** development
(global ocean forecasting - SST, waves, currents, etc.
- and verification / evaluation)
- Strengthen technical supports for **coastal services & disaster risk reduction**
(Coastal Inundation Forecasting)
- Maritime Safety** and sea ice, as core of metocean services
(GMDSS support through WWMIWS)



WWMIWS implementation

<http://www.jcomm.info/GMDSS>

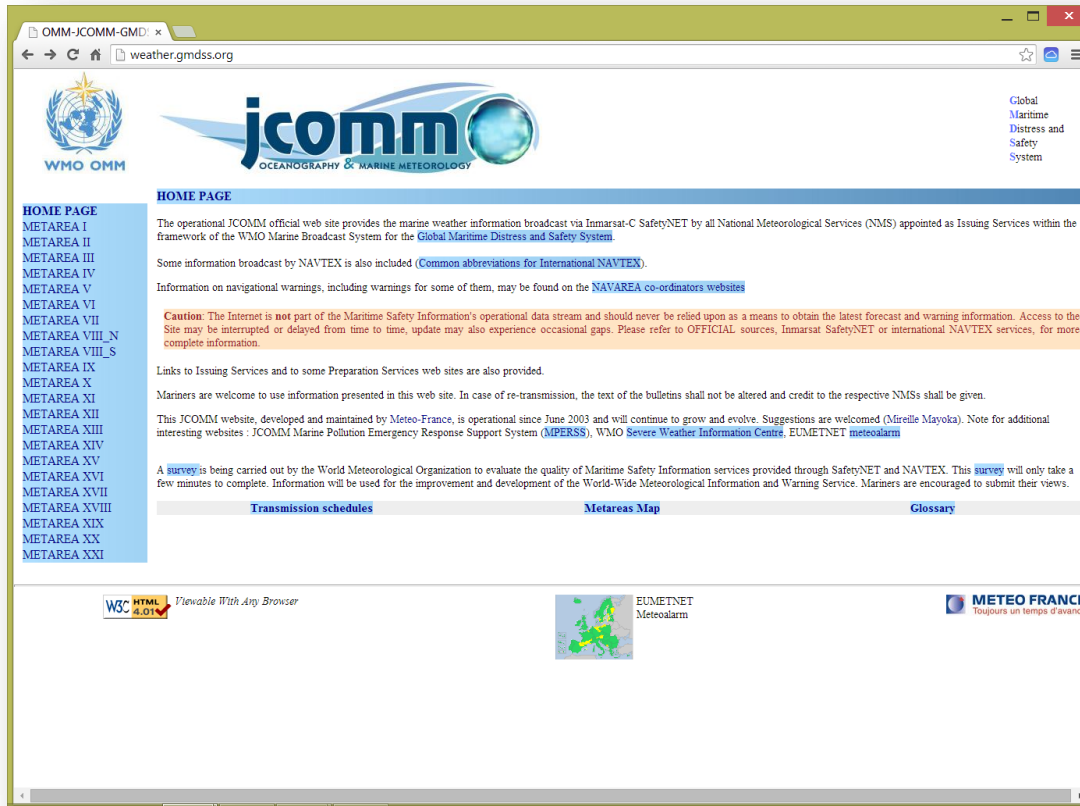
LIMITS OF METAREAS



WWMIWS implementation:

Meteorological MSI Provision & relevant support

<http://weather.gmdss.org>



Operational web service providing the marine weather information broadcasted via Inmarsat-C SafetyNET by all Issuing Services (National Meteorological Services) for Meteorological MSI



WWMIWS implementation

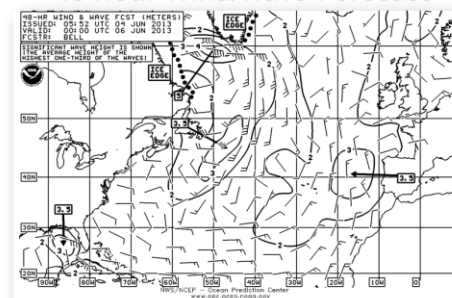
MET Area	Issuing Services (Preparation Service)	Met Area Co-ordinators
I	United Kingdom	United Kingdom
II	France	France
III	Greece (France)	Greece
IV	USA (Canada for Hudson Bay)	USA
V	Brasil	Brasil
VI	Argentina	Argentina
VII	South Africa	South Africa
VIII - N	India	Mauritius
VIII - S	Mauritius ; La Reuin/France ; Australia (TC warnings)	
IX	Pakistan	Pakistan
X	Australia (Fiji, NZ)	Australia
XI	China ; Japan (China, Australia for south of Eq.)	Japan
XII	USA	USA
XIII	Russian Federation	Russian Federation
XIV	New Zeland (Fiji)	New Zealand
XV	Chile	Chile
XVI	USA (Peru request)	USA
XVII	Canada (USA for north coast of Alaska)	Canada
XVIII	Canada (Denmark)	Canada
XIX	Norway	Norway
XX	Russian Federation	Russian Federation
XXI	Russian Federation	Russian Federation



WWMIWS implementation

- Review of **Joint IMO-IHO-WMO Manual on MSI**
 - Coordinated through ETMSS, ETSI and other JCOMM Expert Teams, **in line with the continuous review of WMO Manual on Marine Meteorological Services (WMO-No.558)**
 - To ensure closer coordination with partner organization for timely input to the approval and implementation process
- Development of a **catalogue and product specification on metocean object class**
 - Product specification under review
 - Plan: WMO/ETMSS to work with IHO/TSMAD working group for registry, in parallel with test/evaluation

48 Hour Wind/Wave Forecast



Regulatory Frameworks for enhanced WWMIWS implementation

- WMO Technical Regulations for **Marine Meteorological Services (WMO-No.558)**
 - Review by ETMSS as part of WMO-wide process
 - To ensure streamlined and holistic inter-agency collaboration for review of **Joint IMO-IHO-WMO Manual on MSI**
 - Plan: ETMSS to submit a proposal for revision to WMO Congress/EC, with input from METAREA Coordinators / WMO Members



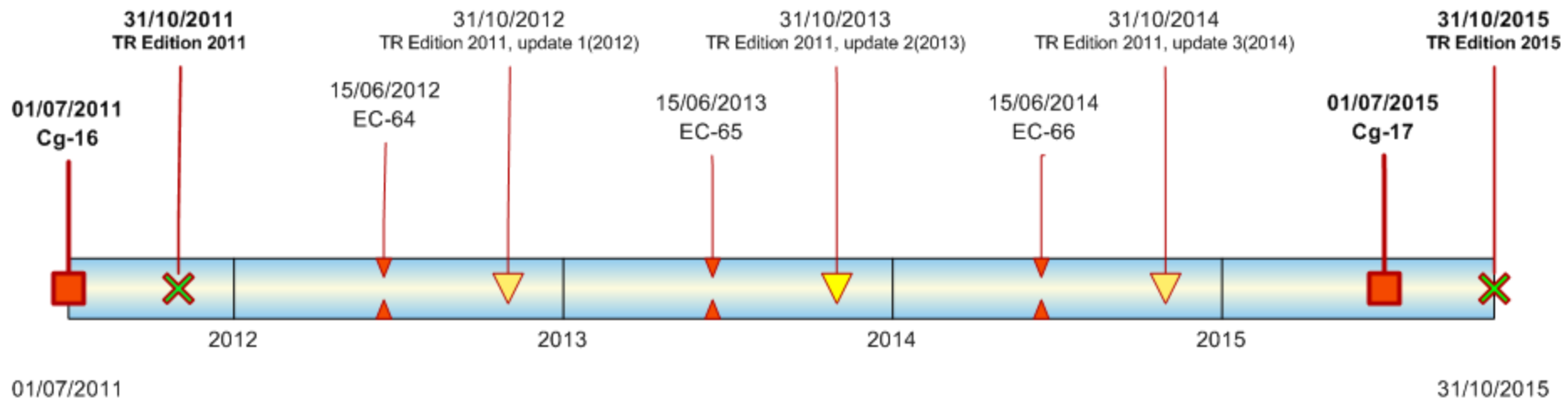
Regulatory Frameworks for enhanced WWMIWS implementation

- Development of **Marine Weather Forecaster (MWF) Competence Framework**
 - Minimum baseline competence standards, as recommended practice, to effectively perform the duties of a marine weather forecaster
 - Underpinning WMO-No.558
 - Comprising recommended element of competence, for effective service, competence description, background knowledge, skills, behavior, performance criteria (* **training/education requirements**)
- Plan: final draft for MWF competence framework submitted to WMO Congress (June 2015) for approval



WMO Technical Regulations - Amendments

- Timeline for regular updates



Efforts for Continuous Improvement in Marine Meteorological Services

- Quality Management (QM) approach
 - Special emphasis of the WMO on service delivery, within a sound Quality Management Framework (QMF)
 - **METAREA Self-Assessment**
- Monitoring / Analysis of User feedback
 - **Marine Meteorological Monitoring Survey 2014**
(<http://www.jcomm.info/MMMS2014>)
 - Plan: to continue regular survey (next round in end/2015 / early 2016), in coordination with IHO/WWNWS survey

The screenshot displays the 'Marine Meteorological Monitoring Survey 2014' webpage. The header includes logos for WMO, IOC, and JCOMM. The main content area explains the survey's goal: to assess the effectiveness of weather and sea bulletins. It includes a section for '1. Basic Information about your vessel' with the following input fields:

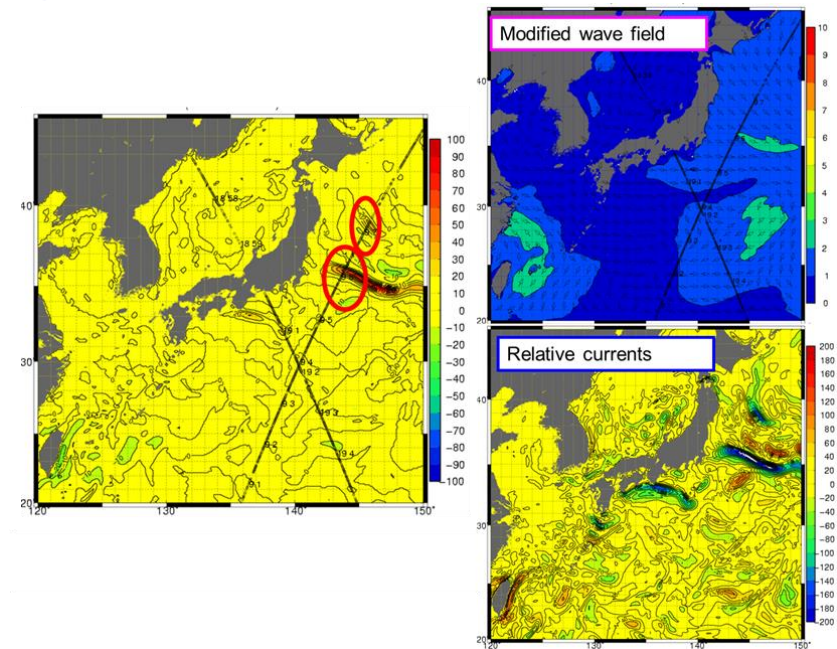
- Ship's Name
- Country of registry
- Departure port of your most recent voyage
- Destination port of your most recent voyage
- Size and length of the vessel (in Gross Tonnage (GT), or meters if GT unknown)

There is also a 'Download the questionnaire in PDF' link and an 'Exit this survey' button.



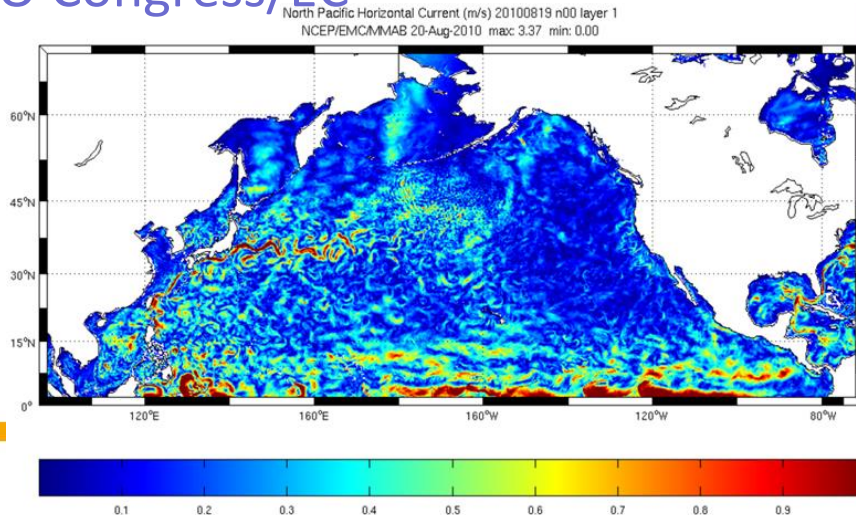
Transfer of Science for Improved Operation

- Dangerous Sea State Forecasting
 - White Paper developed and under review, target for finalization in 2014
 - Plan: upon approval by WMO Congress/Executive Council, to update recommended practices within the WMO Manuals and guidelines for advice on national implementation



Transfer of Science for Improved Operation

- Review and propose revision of existing Marine Pollution Emergency Response Support System (MPERSS)
- As recommended practice & procedure
- Plan: to complete first draft proposal by end 2014, for review by experts and partners before approval by WMO Congress/EC



The image displays two documents related to marine pollution emergency response. The top document is a screenshot of the MPERSS (Marine Pollution Emergency Response Support System) website. The website header includes the WMO and IOC logos, and the title "MPERSS Marine Pollution Emergency Response Support System for the high seas". The main content area features a world map showing the distribution of MPERSS areas (I to XIV) and a list of participating countries. The bottom document is the cover of the "Convention on Early Notification of a Nuclear Accident and Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency", published by the International Atomic Energy Agency (IAEA) in 1987. The cover is blue and white, with the IAEA logo and the text "LEGAL SERIES No.14".



**World
Meteorological
Organization**

Weather • Climate • Water

Thank you