



Workshop on “Ocean and Coastal Information in Support of Marine Resources and Biodiversity in the Macaronesia and Sao Tome and Principe region”

INDP, Mindelo, São Vicente Island, Cape Verde, March 14-15, 2019

Introduction:

The AIR Centre is working to define scientific and technological initiatives to undertake in the Macaronesia and Sao Tome and Principe region. In coordination with the Cape Verde National Institute for the Development of Fisheries (INDP), Ocean Science Centre Mindelo (OSCM), GEO Blue Planet Initiative, Future Earth Coasts and the Marine Biodiversity Network (MBON), it is co-organizing a workshop in Mindelo, Cape Verde, scheduled for March 14-15, 2019, which aims to identify Earth Observation (EO) ocean and coastal needs for fisheries, marine aquaculture, biodiversity and marine spatial planning in the region. This initiative is aligned with the Praia Declaration topic “Marine Resources and Biodiversity: Promote Sustainable Fisheries, aquaculture and ecosystem valorization”, signed by eight countries at the 3rd AIR Centre High Level Dialogue that took place in Praia, Cape Verde, May 7-8, 2018.

Workshop objectives:

- Inform local and regional stakeholders about the technology and methods for deriving ocean and coastal information for use in sustainable fisheries management, aquaculture site selection and management and biodiversity monitoring;
- Support local and regional decision makers on the use on ocean and coastal information to assess marine and coastal spatial planning options;
- Identify potential marine resources and biodiversity initiatives for the AIR Centre and relevant partners to pursue in the region;
- Map capacities needed in the region for deriving ocean and coastal information, identify gaps and promote capacity and institution building initiatives in the region.

Geographical and regional perspective:

The challenges related to sustainable development faced by the Macaronesia and Sao Tome and Principe and neighboring coastal countries are closely linked to marine resources and biodiversity. The sustainable management of fisheries and biodiversity and the development of sustainable managed aquaculture has the potential not only to sustain the ocean resources for current and future generations, but also to improve traditional livelihoods in the region.

Workshop preparation and local engagement:

This workshop will build upon three preliminary cross-sectoral and cross-disciplinary meetings to better understand the information needs of local and regional governments, businesses, researchers and civil society to enhance local and regional capacity for job creation and innovation in the blue economy and to foster the sustainable use of marine resources as a main component of local and regional economies. The two first preliminary meetings were held in Faial, Azores on October 29th, 2018, and Las Palmas, Canary Islands on October 15th, 2018 in. The third preliminary meeting will take place in Sao Tome and Principe on January 2019.



Preliminary meeting at Faial, Azores, October 29, 2018



Preliminary meetings at Las Palmas de Gran Canaria, November 15, 2018

The objective of the preliminary meetings is to co-create user stories. User stories are very short and simple descriptions of a service or a product feature articulated from the perspective of the end user. They are written on index cards or sticky notes and arranged on conversation canvas in the form of "As a... I want... For..." to stimulate discussion. Details can be further added by dividing a user story into various, smaller user stories or



by complementing with acceptance criteria and expected results. The result is a list of functional and non-functional requirements that will be tested with user interface mockup tools before being translated into an EO service or product.

The local and regional authorities participating in the workshop and preliminary meetings are varied and include national statistics offices, meteorological institutes, local providers of oceanographic data, SMEs, non-governmental organisations, research institutes and traditional community representatives of Macaronesia and Sao Tome and Principe.

Expected Outcomes:

This workshop will produce a report on coastal and information needs to be shared and discussed with data and service providers such as NASA, NOAA, ESA and Copernicus. The workshop is seen as a first stepping stone into a series of Atlantic regional workshops aimed at the development of innovative user-oriented Earth observation services and products as well as the identification of new initiatives for the AIR Centre to pursue, such as workshops covering other topical and regional areas (as the Southern-West and Southern East Atlantic).

Workshop Organisation:

AIR Centre, GEO Blue Planet Initiative, Future Earth Coasts, The Marine Biodiversity Observation Network (MBON), European Space Agency (ESA), United Nations Outer of Space Agency (UNOOSA), Ocean Science Center Mindelo (OSCM), National Institute of Fisheries Development (INDP), Regional Government of Azores, Azores Regional Foundation for Science and Technology (FRCT), Oceanic Platform of the Canary Islands (PLOCAN), Ministry of Maritime Economy of Cape Verde, Ministry of Education of Cape Verde, and Ministry of Education, Culture and Science of Sao Tome and Principe.

Participants:

The workshop is open to all local and regional stakeholders and interested data/service providers, including:

- National Statistical Offices
- Ministries of Environment, Education and Maritime Economy
- Industry: Local and regional Small and Medium Enterprises
- Non-governmental organizations
- Traditional community representatives
- Providers of ocean and coastal data, products and information
- Representatives from SDG custodian agencies

Draft Programme:

March 14, 2019	
Session 1: Welcome and Introduction	
09:00-09:30	Paulo Veiga , Secretary of State for Maritime Economy, Cape Verde Osvaldina Silva , President, National Institute for the Development of Fisheries, Cape Verde Emily Smail , NOAA, GEO Blue Planet Bruno Pacheco , AIR Centre, Azores Regional Government
Session 1: Fisheries in the Macaronesia, Sao Tome and Principe region <i>In this session, speakers will address the challenges faced by fisherfolk and fisheries managers in the Macaronesia, Sao Tome and Principe region.</i>	
09:30-09:40	Albertino Martins , INDP, The State of the Art of Fishing in Cape Verde
09:40-09:50	Marcia Costa , Aquaculture Potential and Challenges in Cabo Verde
09:50-10:30	Development of user stories
10:30-11:15	Questions and answers
11:15-11:30	Coffee Break
Session 2: Ocean and Coastal Information in support of Sustainable Fisheries <i>In this session, speakers will provide examples of ocean and coastal information derived from EO that are used in other regions to inform fisheries management.</i>	
11:30-11:45	Kwame Agyekum , University of Ghana
11:45-12:00	Cristiano Cialone , ESA
12:00-12:10	Ricardo Conde , EDISOFT
12:10-12:20	Ori Zeisel , Image Satellite International (ISI)
12:20-13:00	Questions and Answers
13:00-14:00	Lunch
Session 3: Marine Biodiversity in the Macaronesia, Sao Tome and Principe region <i>In this session, speakers will review the importance of marine biodiversity in the region and outline existing monitoring efforts</i>	
14:00-14:15	Carlos Monteiro , INDP, Marine Biodiversity in Cape Verde
14:15-15:00	Development of user stories
15:00-15:45	Questions and answers
15:45-16:00	Coffee Break
Session 4: Ocean and Coastal Information in support of Marine Biodiversity <i>In this session, speakers will provide examples of marine biodiversity management based on ocean and coastal information derived from Earth observations</i>	
16:00-16:15	Frank Muller-Karger , GEO MBON
16:15-16:30	Vito Ramos , INDP, Coastal Oceanography in Cape Verde
16:30-17:00	Questions and answers
17:00-17:30	Wrap up day #1
March 15, 2019	
Session 5: Potential Initiatives for Marine Resources and Biodiversity <i>In this session, potential initiatives/projects that could be undertaken in the region will be discussed and identified</i>	



09:00-11:00	Round table and Q&A
11:00-11:15	Coffee Break
Session 6: Ocean and Coastal Information in support of Marine Spatial Planning	
<i>In this session, speakers will provide examples of marine and coastal spatial planning based on ocean and coastal information derived from EO</i>	
11:15-11:30	Emily Smail , GEO Blue Planet
11:30-11:45	Osvaldina Silva , INDP
11:45-12:00	Manuel Pinheiro , FAO
12:00-13:00	Questions and answers
13:00-14:00	Lunch
Session 7: Regional Capacity and Next Steps	
<i>In this session, the existing capacity of regional stakeholders to implement the initiatives identified in previous sessions will be discussed. Capacity and institutional gaps will also be identified</i>	
14:00-14:15	Sophie Seeyave , POGO, GEO Blue Planet
14:15-14:25	Ricardo Conde , EDISOFT
14:25-14:35	Sergio Amado , SES
14:35-15:15	Round Table (INDP, OSCM, UniCV, Ministry of Education)
15:15-15:30	Coffee Break
Session 8: Summary, Next Steps and Conclusion	
15:30-16:30	Round Table
16:30-17:00	Closing Session

Contacts:

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