



# **GEO BLUE PLANET FISHERIES WORKSHOP REPORT**

Ocean Data to Support Global Sustainable Fisheries  
Management



London, UK, 21-22 April 2026

## Executive Summary

The GEO Blue Planet Fisheries Workshop convened international experts, regional fisheries body representatives, and ocean data scientists to bridge the gap between oceanographic data and the practical needs of fisheries management. With an overarching focus on ensuring the sustainability of global fisheries amidst environmental variability and climate change, the workshop facilitated critical dialogues on the integration of earth observations, predictive modeling, and socioeconomic data. Key outcomes included the identification of regional challenges, the definition of "Minimum Viable Ocean Data," and the proposal of strategic pilot projects in the Indian Ocean and West Africa/South Atlantic regions to foster institutional bridging, capacity building, and sustainable decision-making.

## 1. Introduction and Welcome Remarks

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The workshop opened with welcoming remarks designed to set a collaborative and action-oriented tone for the proceedings.

**Dr. Darius Campbell** initiated the session by introducing the North East Atlantic Fisheries Commission (NEAFC), which comprises six member countries and the European Union. He also presented the Regional Fishery Body Secretariats' Network (RSN), a collaborative network of 50 bodies operating under the auspices of the Food and Agriculture Organization (FAO) that meets informally every two years.

**Dr. Audrey Hasson**, Executive Director of GEO Blue Planet, emphasized the pivotal role of GEO Blue Planet in bridging the disconnect between scientific data and societal needs. She highlighted the necessity of targeting specific barriers to bring actionable intelligence to fisheries managers. Dr. Hasson set a firm expectation for the workshop: it must transcend theoretical discussions and lead to concrete actions and meaningful, post-workshop outcomes.

Note: Dr. Pierre-Yves Le Traon was also present and acknowledged during the introductory proceedings.

## 2. Workshop Framework

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The overarching framework of the workshop was divided into primary goals, key objectives, and expected outcomes, establishing a clear roadmap for the sessions.

### Core Goals

- Promote Ocean Data: Encourage the integration of environmental observations and predictive modeling into management frameworks.



- Support Sustainability: Ensure global fisheries operate sustainably over the long term.
- Enhance Adaptation: Equip fisheries to adapt effectively to environmental variability and climate change.
- Establish the Working Group: Formally introduce the GEO Blue Planet Fisheries Working Group.
- Foster Collaboration: Provide a collaborative, interactive space for diverse stakeholders.

## Key Objectives

- Promote the widespread adoption of Ocean Data by various fisheries management bodies.
- Engage with key stakeholders to accurately identify their specific Ocean Data needs, as well as institutional and technical blockage points.
- Support the integration of Ocean Data into formal decision-making processes.
- Explore the potential for regional workshops to support the co-design of Ocean Data services and related capacity development.

## Expected Outcomes

- Present the latest advancements in ocean environmental observation and modeling, showcasing inspiring, real-world examples of their application for sustainable management.
- Identify contemporary challenges in utilizing Ocean Data and openly discuss the co-design of fit-for-purpose, regional solutions.
- Provide actionable recommendations to enhance coordination and cooperation among stakeholders, specifically prioritizing capacity building.

## 3. Session 1: Advancements in Ocean Data and Modeling

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The first session focused on the technological and scientific tools currently available to support fisheries management, emphasizing satellite observations, ecosystem modeling, and the critical link between physics and biology.

- **Dr. Pedro Ribeiro (Indra):** Addressed the specific and urgent needs of Small Island Developing States (SIDS). Because SIDS territories often consist of less than 1% landmass, they face the monumental task of monitoring massive exclusive economic zones (EEZs). Dr. Ribeiro highlighted that this requires highly appropriate surveillance and extensive coverage, uniquely supported by advanced satellite observations.
- **Dr. Stefano Ciavatta (Mercator):** Presented the vast possibilities derived from predictive models, underscoring the key role environmental data plays in fisheries management. He discussed effective dissemination strategies, particularly the use of "what-if" scenarios that can directly inform management decisions, such as establishing seasonal closures.



- **Dr. Shubha Sathyendranath (PML):** Demonstrated how Earth Observation (EO) can provide critical data on primary production, ocean fronts, and Sea Surface Temperature (SST). She proposed that a standardized list of indicators, quantifiable variables updated at high frequencies, could significantly assist managers. She also emphasized the critical need for scientists to prioritize outreach and capacity building.
- **Dr. Hassan Moustahfid (NOAA):** Stressed the foundational link between physical oceanography and biological data. He presented models that account for ecosystem regime shifts and characterized climate change as the "invisible manager" of global fisheries. Dr. Moustahfid emphasized the importance of effectively transferring scientific knowledge to managers and highlighted the irreplaceable value of collaborating directly with fishermen.

## 4. Session 2: Regional Perspectives, Challenges, and Needs

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Session two transitioned from technological capabilities to the realities on the ground, featuring insights from regional bodies regarding their specific operational challenges.

- **Dr. Genevieve Phillips (IOTC):** Emphasized the essential need for biological and environmental "ground truthing" and formally introduced the Indian Ocean Marine Atlas Project as a tool to consolidate regional data.
- **Dr. Krishnan Paulpandian (BOBP-IGO):** Pointed out that raw data alone is insufficient to close the management gap. He advocated strongly for improved "ocean literacy" among stakeholders to ensure data is understood and utilized effectively.
- **Dr. Abdennaji Laamrich (ATLAFCO):** Speaking on behalf of a 22-country network, he raised critical questions about how to better involve research institutes in the management process. He noted severe issues with catch misreporting (estimating real catch to be 1.6 to 4 times higher than reported). He highlighted significant IT infrastructural deficits, a pressing need for socio-economic data alongside environmental data, and a lack of research funding. Despite these hurdles, he praised ongoing cooperation with RAFISME through consultative forums and scientific projects.
- **Dr. Hannah Kyeraa Ansah (FCWC):** Outlined immediate regional challenges, including rampant overfishing, Illegal, Unreported, and Unregulated (IUU) fishing, and weak enforcement mechanisms. She championed the need for robust Monitoring, Control, and Surveillance (MCS) systems. While noting the necessity of transitioning to digital repositories, she lamented that inadequate IT infrastructure currently hinders this progress.
- **Dr. Micaela Giorgini (INIDEP):** Outlined her institute's role in advising the relevant ministry, stressing that a holistic approach is mandatory for addressing complex ecosystem changes. She added a critical practical limitation: remote sensing only partially addresses her region's needs due to persistent cloud coverage obstructing satellite imagery.

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- **Dr. Nathan Taylor (ICAT):** Participated in the session dialogues regarding international catch assessment and management strategies.

## 5. Session 3: Breakout Groups and Strategic Formulations

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The final session divided participants into breakout groups to tackle specific operational questions, aiming to generate the "concrete actions" requested during the welcome remarks.

### Question 1: Minimum Viable Ocean Data

The group debated the concept of a Minimum Viable Ocean Data standard, noting that such a baseline must link Essential Ocean Variables (EOVs) directly to fish species and ecosystem health.

- **Regional Tailoring:** Capacity and ecological needs vary wildly. For instance, monitoring oxygen levels is critical for the Baltic Sea, whereas tracking salinity is paramount in the Arctic. The required data list must remain dynamic, non-exhaustive, and regionally tailored.
- **Data Types and Value:** Participants discussed the crucial difference between tracking productivity (a rate) versus chlorophyll/phytoplankton (a mass). Furthermore, the group noted that the value of ocean data compounds exponentially as time-series lengthen, which is vital for monitoring climate change impacts.
- **Small-Scale Fisheries:** In regions lacking basic stock assessment baselines, the immediate priority must be gathering foundational data, such as accurately determining the number of active boats and fishermen in small-scale coastal fleets.
- **Safety at Sea:** Ocean data provides value beyond fish stocks. Forecasting storm events, marine pollution, and harmful algal blooms allows for comprehensive risk assessments that protect fishers. Daily forecasting bulletins were highlighted as highly useful outputs.
- **Industry Collaboration:** Connecting with the fishing industry provides scientists with vital, on-the-water observations regarding shifting environmental conditions.

### Question 2: Resource Sharing

Discussions centered on optimizing the workflow from data generation to policy decision-making.

- **Workflow Mapping:** The group recommended pilot studies to analyze how data flows to decision-makers across various regions.
- **Partnerships:** Many Regional Fisheries Management Organizations (RFMOs) currently partner with scientific committees and Regional Fishery Bodies (RFBs) to secure scientific advice. Horizontal knowledge exchange and capacity building should be deeply integrated into these relationships.
- **Successful Models:** Dr. Krishnan Paulpandian highlighted the INCOS-BOBP partnership as a successful model of regional resource and knowledge sharing.



### Question 3: Actionable Milestones and Coordination

The final discussion emphasized the need for "institutional bridging," advising that focus must be placed on the process of how information flows between scientists and policymakers. To achieve this, the group proposed the initiation of specific regional pilot projects.

#### Proposed Pilot Regions:

1. Indian Ocean / Bay of Bengal: Conducted in partnership with INCOS, with an eye toward presenting outcomes at the TREVOR-SAFARI symposium scheduled for Fall 2026.
2. West Africa: Executed with a potential connection to Mercator's OPERA project. The group also suggested expanding this to cover the broader South Atlantic region, potentially liaising with partners in Argentina.

#### Directives for Pilot Projects:

- Capacity Building: Must be an integrated, foundational component of the pilots, not an afterthought.
- Beyond the Technical: These pilots must avoid focusing strictly on technical data solutions. They must actively address institutional and bureaucratic barriers to ensure that the data and resulting scientific advice are actually accepted and utilized by local institutions and fisheries managers.

## 6. Comprehensive Results and Findings

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The interactive sessions and breakout groups yielded significant insights into the current state of ocean data utilization in global fisheries management. A primary finding across all sessions was the distinct disconnect between the sheer volume of advanced scientific data available and the practical, daily realities of fisheries managers on the ground.

### 6.1 The "Minimum Viable Ocean Data" (MVOD) Imperative

Participants concluded that overwhelming fisheries managers with raw, complex biogeochemical data is often counterproductive. Instead, the scientific community must shift its focus toward providing a tailored Minimum Viable Ocean Data (MVOD) baseline.

- Ecological Specificity: The workshop determined that a universal MVOD standard is impossible; requirements are strictly tied to regional ecologies.
- Mass vs. Rate Metrics: A crucial distinction must be communicated to end-users regarding the difference between measuring phytoplankton mass and actual ecosystem productivity rates.
- The Compound Value of Time-Series: The utility of ocean data is not immediate. Long-term time-series data is an absolute prerequisite for managers trying to distinguish between natural, short-term environmental variability and permanent, climate-driven regime shifts.





## 6.2 The Baseline Data Gap in Artisanal Fisheries

A critical finding was the stark disparity in data baselines between industrialized regions and developing coastal states or Small Island Developing States (SIDS). In many regions dominated by small-scale, artisanal fisheries, complex environmental forecasting is currently unusable because fundamental stock assessments simply do not exist. In these areas, the immediate "ocean data" priority must focus on gathering baseline socio-economic metrics.

## 6.3 The Multi-Purpose Utility of Environmental Data

The workshop found that local managers and fishing industries are significantly more likely to adopt ocean data if it serves multiple operational purposes. Beyond assessing fish stocks, environmental forecasting directly improves safety at sea. Predicting severe storm events, tracking marine pollution, and detecting harmful algal blooms provide comprehensive risk assessments that protect fishers' lives and livelihoods.

# 7. Strategic Recommendations

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To ensure the workshop delivers on the mandate for "concrete action," the collaborative groups developed a framework of strategic recommendations to guide the GEO Blue Planet Fisheries Working Group moving forward.

### Recommendation 1: Prioritize Institutional Bridging

The primary recommendation is to shift the global focus from the creation of data to the flow of information. Science must be translated into policy-ready formats. Regional Fisheries Management Organizations (RFMOs) should establish formalized partnerships with local scientific networks to create a horizontal exchange of knowledge.

### Recommendation 2: Integrate Socio-Economic Realities

Environmental data must be inextricably linked with socio-economic context. Addressing systemic challenges like IUU fishing, catch misreporting, and weak enforcement requires a holistic approach.

### Recommendation 3: Mandate Capacity Building in Tech Transfers

The workshop firmly recommended that any implementation of digital repositories or advanced predictive modeling must be accompanied by robust IT infrastructure support. Furthermore, comprehensive "ocean literacy" training for local stakeholders must be a mandatory component of any data-sharing initiative.

# 8. Actionable Milestones: Regional Pilot Projects

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To operationalize these recommendations, the workshop established the following regional pilot projects as immediate, actionable milestones. These pilots are designed specifically to test and optimize the workflow from data generation to policy decision-making.



| Pilot Region                 | Key Partners & Frameworks                              | Primary Objectives & Institutional Milestones                                                                                                                                           |
|------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indian Ocean / Bay of Bengal | INCOIS, BOBP-IGO                                       | Focus on operationalizing the MVOD concept for regional fisheries. The key actionable milestone is to co-design workflows and present the outcomes at the TREVOR-SAFARI 2026 symposium. |
| West Africa & South Atlantic | Mercator International, Ocean FCWC, INIDEP (Argentina) | Leverage the OPERA project to build a cooperative consortium. Focus on establishing local IT infrastructure, capacity building, and cross-ocean collaborative management.               |

### Core Directives for Pilot Execution

3. Workflow Mapping: Each pilot must document the precise, step-by-step bureaucratic and technical process of how data reaches a decision-maker in that specific region.
4. Focus on Institutional Acceptance: Success will not be measured solely by the scientific accuracy of the models, but by the willingness of local ministries and Regional Fishery Bodies (RFBs) to legally adopt the data.
5. Global Scalability: The ultimate goal is to develop standardized, co-designed operating procedures during these pilots that can be subsequently exported to other SIDS and developing coastal states globally.





## ANNEX:

### Annex A : Agenda

## GEO Blue Planet Fisheries Workshop

# Ocean Data<sup>1</sup> to support Global Sustainable Fisheries Management

London, 21-22 April 2026

Hybrid format - Link :

### Goals

- Promote **the use of Ocean Data** to support long-term sustainability of global fisheries.
- **Strengthen collaboration** among stakeholders through GEO Blue Planet.

### Key objectives

1. Promoting the **adoption of Ocean Data** by fisheries management bodies  
*Session 1. Showcasing and Knowledge Transfer*
2. Engaging with key stakeholders to identify their **Ocean Data needs and blockage points**  
*Session 2. Needs Assessment*
3. Supporting the **use of Ocean Data** in decision-making processes  
*Session 3. Collaborative Action and Roadmap Development*
4. Exploring regional workshops to support **Ocean Data services** co-design and capacity development  
*Session 4. Platform for Stakeholder Engagement*

### Workshop Co-chairs :

Dr. Darius Campbell (NEAFC)

Dr. Hassan Moustahfid (NOAA / GEO Blue Planet Fisheries Working Group co-chair)

Dr. Pedro Ribeiro (Indra Space / GEO Blue Planet Fisheries Working Group co-chair) – online

### Workshop Organizer:

Daphne Lecellier (Mercator Ocean Intl / GEO Blue Planet Secretariat)

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<sup>1</sup> **Ocean Data:** *Ocean environmental observation and modelling*



| Day 1 – 21 April 2026 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.00-9.00             | Welcome coffee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9.00-9.20             | <p><b>Welcome remarks</b> Dr. Darius Campbell (NEAFC) &amp; Dr. Audrey Hasson (GEO Blue Planet / Mercator Ocean Intl) - online</p> <p><b>Workshop Objectives</b> Dr. Hassan Moustahfid (NOAA)</p> <p><b>Round of introductions</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 9.20-9.30             | <p><b>Opening Address</b></p> <p>Dr. Pierre-Yves Le Traon (Mercator Ocean International)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 9.30-9.45             | <p><b>GEO Blue Planet and its Fisheries Working Group</b></p> <p>Daphne Lecellier (GEO Blue Planet / Mercator Ocean International)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 9.45-10.45            | <p><b><u>Session 1. Showcasing and Knowledge Transfer</u></b></p> <p>Lead : Daphne Lecellier</p> <p>To synthesize and present the latest advancements in State-of-the-art Ocean Data applications (observation, modelling, and derived products) that directly inform sustainable fisheries management and climate change adaptation strategies.</p> <ul style="list-style-type: none"> <li>- <b>Monitoring indicators for fisheries in SIDS</b>, Dr. Pedro Ribeiro (Indra Space)</li> <li>- <b>Fish modelling for fisheries management in a changing ocean</b>, Dr. Stefano Ciavatta (Mercator Ocean Intl) - online</li> <li>- <b>Ocean data to monitor regime shifts and habitat changes in fisheries</b>, Dr. Hassan Moustahfid (NOAA)</li> <li>- <b>Water Quality and Productivity from Space for Fisheries</b> Dr. Shubha Sathyendranath (PML)</li> </ul> <p>Format: 4 Presentations (10' each) followed by Q&amp;A (20')</p> |
| 10.45-11.15           | <i>Coffee Break</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 11.15-11.30           | <p><b>Results of the survey</b></p> <p>Daphne Lecellier (GEO Blue Planet)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 11.30-12.30           | <p><b><u>Session 2. Needs Assessment</u></b></p> <p>Lead : Dr. Shubha Sathyendranath</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <p>To identify and prioritize the critical barriers, gaps, and capacity needs faced by diverse Regional Fisheries Bodies (RFBs) and Management Organizations in the practical acquisition, utilization, and integration of Ocean Data into their decision-making frameworks.</p> <p><b>Invited Institutions include:</b></p> <ul style="list-style-type: none"> <li>- <b>BOBP-IGO</b> – Dr Krishnan Paulpandian</li> <li>- <b>COMHAFAT/ATLAFCO</b> - Mr Abdennaji Laamrich</li> <li>- <b>FCWC</b> - Mrs. Hannah Kyeraa Ansah</li> <li>- <b>INIDEP</b> - Dr. Micaela Giorgini</li> <li>- <b>IOTC</b> - Dr Genevieve Phillips</li> <li>- <b>ICCAT</b> – Dr Nathan Taylor</li> </ul> <p>Format: RFBs Presentations (7’ each) followed by Q&amp;A (20’)</p> |
| <b>12.30-14.00</b>   | <i>Lunch Break</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>14.00-15.30</b>   | <p><b>Session 3. Collaborative Action and Roadmap Development</b></p> <p>Leads : Dr. Hassan Moustahfid (in-person) and Dr. Pedro Ribeiro (online)</p> <p>To develop a set of concrete recommendations and an initial collaborative roadmap to enhance coordination, resource sharing, and co-design of fit-for-purpose Ocean Data solutions, particularly focusing on mechanisms for effective capacity building across organizations with varied resource levels.</p> <p>Format: Breakout groups guided discussion (1 online, 1 in-person)</p>                                                                                                                                                                                                         |
| <b>15.30-16:00</b>   | <i>Coffee Break</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>16.00-17.30</b>   | <p><b>Session 3. Collaborative Action and Roadmap Development – continued</b></p> <p>Plenary restitution and discussion on next steps and action plan</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>18.00-onwards</b> | Dinner provided by organizers (on site)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| <b>Day 2 – 22 April 2026</b> |                                                                   |
|------------------------------|-------------------------------------------------------------------|
| <b>8.00-9.00</b>             | Welcome coffee                                                    |
| <b>9.00-9.30</b>             | Day 1 recap and Day 2 objectives                                  |
| <b>9.30-10.30</b>            | <b>Session 4. Co-design a solution for Stakeholder Engagement</b> |



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|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <p>Leads : Dr. Hassan Moustahfid and Dr. Darius Campbell (in-person) and Dr. Pedro Ribeiro and Olivia Fauny (online)</p> <p>Co-design a solution for sustained cross-sector dialogue, information exchange, and the future development/deployment of Ocean Data tools and best practices among technical experts and decision-makers.</p> <p>Format: Breakout groups guided discussion (1 online, 1 in-person)</p> |
| <b>10.30 – 11.00</b> | Report back from each breakout groups                                                                                                                                                                                                                                                                                                                                                                              |
| <b>11.00-11.30</b>   | <i>Coffee Break</i>                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>11.30-12.30</b>   | <p><b>Concluding Session</b></p> <ul style="list-style-type: none"> <li>• <b>Recommendations and way forward</b></li> <li>• <b>Identify priority actions and/or regions</b> with a focus on potential regional workshops.</li> <li>• <b>Announcements</b> (TREVOR-SAFARI symposium, GEO Blue Planet Symposium)</li> <li>• <b>Feedback from the participants</b></li> </ul>                                         |
| <b>12.30</b>         | Adjourn                                                                                                                                                                                                                                                                                                                                                                                                            |

## Annex B : List of Participants

### ON-SITE PARTICIPANTS:

**Dr. Hannah Kyeraa ANSAH** (Fisheries Committee for the West Central Gulf of Guinea)

**Mahé BUTEL** (Mercator Ocean International)

**Dr. Darius CAMPBELL** (North-East Atlantic Fisheries Commission – NEAFC)

**Dr. Micaela GIORGINI** (Instituto Nacional de Investigación y Desarrollo Pesquero – INIDEP)

**Diane HACKER** (NEAFC)

**Abdennaji LAAMRICH** (COMHAFAT / ATLAFCO)

**Daphné LECELLIER** (Mercator Ocean International / GEO Blue Planet)

**Hassan MOUSTAHFID** (NOAA Federal / GEO Blue Planet Working Group)

**Dr. Krishnan PAULPANDIAN** (BOBP-IGO)

**Dr. Shubha SATHYENDRANATH** (Plymouth Marine Laboratory / GEO Blue Planet Working Group)



## ONLINE PARTICIPANTS:

**Sarah ALBERNHE** (Mercator Ocean International)

**Daniela ALEMANY** (INIDEP)

**Eider ANDONEGI** (AZTI)

**Stefano CIAVATTA** (Mercator Ocean International)

**Clara DÍAZ DE ASTARLOA** (INIDEP)

**Anton ELLENBROEK**

**Olivia FAUNY** (Mercator Ocean International)

**Bennet FOLI**

**Audrey HASSON** (GEO Blue Planet Executive Director)

**Neil HOLDSWORTH** (ICES)

**Christoph KONRAD** (IOTC)

**Pierre Yves LE TRAON** (Mercator Ocean International)

**Maria Ines MILITELLI** (INIDEP)

**Rajdeep MUKHERJEE** (BOBP-IGO)

**Genevieve PHILLIPS** (IOTC)

**Dave REID** (Marine Institute)

**Pedro RIBEIRO** (Indra Space)

**Stefania SAVORE** (FAO)

**Nathan TAYLOR** (ICCAT)

**Lizette VOGES** (SEAFO)