

Readout: 3rd International Shipping Industry Consultation: "Strengthening the Stewardship of a Biologically and Economically Important High Seas Area – The Sargasso Sea".

Introduction

As part of the ongoing <u>GEF-UNDP-UNESCO-IOC Sargasso Sea Project</u>, a third shipping-industry focused consultation event was held in Singapore on 14th February 2025. This engagement, **the first outside the European/North Atlantic areas**, was facilitated by <u>NLA International Ltd</u> (NLAI), the authors and deliverers of the Project's Stakeholder Engagement Strategy. The consultation was attended in person or online by representatives from <u>Intertanko</u>, <u>BIMCO's</u> Singapore Office, the <u>World Shipping Council</u>, <u>Maersk</u>, <u>Hapag-Lloyd</u>, <u>MSC</u>, <u>Wilhelmsen Ship Management</u>, <u>Lloyd's Register</u>, <u>OSM Thome</u>, <u>SGS Marine Services</u>, the <u>Sustainable Shipping Initiative</u>, <u>IMarEST</u> Singapore, <u>UNEP-WCMC</u> and colleagues from the Singapore University <u>Centre for International Law (CIL)</u> and Edinburgh University's <u>School of Geoscience</u>. There were several short update briefings from the Project Team, NLAI and the <u>Sargasso Sea Commission</u> Secretariat, with Duke University's <u>Marine Geospatial Ecology Lab</u> providing a key video briefing on their recent findings; <u>CLIMA</u> from Copenhagen University also provided a short briefing on Green Corridors.

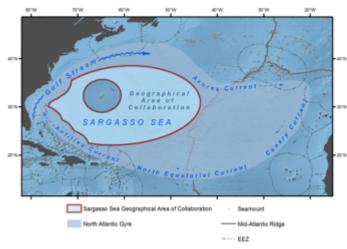


Figure 1: Sargasso Sea Geographical Area of Collaboration (GAC) (Duke: MGEL)

Although unable to attend on this occasion, the IMO, including their <u>GloFouling Partnership</u> <u>Project</u>, <u>Intercargo</u>, <u>CLIA</u>, <u>Gard</u>, <u>Oldendorff</u> <u>Carriers</u>, <u>Swire Shipping</u>, the <u>International</u> <u>Chamber of Shipping</u>, the <u>UK Chamber of</u> <u>Shipping</u>, and the <u>International Cable Protection</u> <u>Committee</u> have participated in previous Project consultations or have asked to be kept up-todate with Project progress. As such, the Project will continue to engage with these organisations and others in the International Shipping Industry as it continues to build this key stakeholder group into the future.



Consultation Aims

This event had two main aims. The first was to present draft findings from the Project's Socio Ecosystem Diagnostic Analysis (SEDA)¹ and discuss voluntary measures and areas for collaboration that might mitigate identified impacts and assist in the overall conservation and stewardship of the Sargasso Sea Geographical Area of Collaboration (GAC). Then, in the context of the BBNJ Agreement², the second aim was to consider potential generalisable voluntary measures and principles that could have future global relevance and applicability.

In the broadest sense, by collaborating with this key stakeholder community, the Project also aims to increase shared-awareness and stimulate discussion. The voice and perspectives of the International Shipping Community are essential in helping determine potential future voluntary governance and stewardship measures for all users of the Sargasso Sea.

Event Agenda³

A short introductory briefing on the Sargasso Sea Commission, for those new to this Project, and a brief explanation of the Project Stakeholder Engagement process and outline findings from the first two shipping industry consultation events, were followed by an update by the Project Chief Technical Adviser (CTA) on progress since the last Consultation. Next was a pre-recorded video presentation of a recent Paper from Duke University Marine Geospatial Ecology Lab (MGEL) – produced as part of the Project SEDA evidence – on **Vessel Traffic in the Sargasso Sea Geographical Area of Collaboration, 2019-2021**; all participants were then given the opportunity to pose questions on this Paper to the Project team, and to offer specific reflections and perspectives, before breaking for lunch.

The afternoon session began with a short presentation by CLIMA on the Green Corridor approach to sea management, followed by a second presentation from the Project CTA on the **importance of connectivity between areas within and areas beyond national jurisdiction** (ABNJ). This latter subject was especially pertinent because whilst **the Sargasso Sea**, like many other ABNJs, is **geographically distant from** many of the areas of operation of some of the **Singapore-based participants**, it **remains intrinsically connected** and therefore, **of relevance and interest to all**. This presentation, together with the Duke MGEL paper, set the scene perfectly for two group roundtables.

The first roundtable focused on identifying what defines good, generalisable (global) voluntary measures, collaborations, measures of effectiveness, and transferability and where might unique measures be necessary, and the second examined what measures would address Sargasso Sea and ABNJ vulnerabilities, how can they be implemented, incentivised & recognised and what are the mechanisms for industry participation?

Finally, the Project's next steps were set-out by the CTA, and the event was expertly précised by NLAI and deftly wrapped-up by the Executive Secretary of the Sargasso Sea Commission.

Event Context & Timing

Immediately preceding the BBNJ Symposium 2025, where the BBNJ Agreement's future adoption was discussed and debated, this 3rd international shipping sector consultation event came at a critical juncture. There is an **increasing need to identify concrete pathways for implementing Area-Based Management Tools**



¹ Socio-Ecosystem Diagnostic Analysis: builds on Transboundary Diagnostic Analysis (TDA), an established process used in and across EEZ boundaries. The SEDA process seeks to capture both the importance of the Sargasso Sea as an ecosystem, and its importance from a social and economic perspective.

² Agreement under the United Nations Convention on the Law of the Sea (UNCLOS) on the Conservation and Sustainable Use of Marine Biological Diversity of Areas beyond National Jurisdiction (ABNJ).

³ The full event Concept Note and Agenda is included at Appendix 1 and the full Slide Deck is at Appendix 2.

(ABMT) and cooperative measures in regions where traditional national governance frameworks do not apply – ABNJs. The Sargasso Sea, an entirely high-seas ocean ecosystem with unique biodiversity which has benefitted from long-term ecosystem monitoring and data collection, is, through this Project, emerging as a pilot region for the application of such measures. The Project's recent work, which includes spatial mapping of vessel traffic, analyses of marine mammal migration corridors, and identification of potential vulnerability hotspots, provides the knowledge base required to consider voluntary industry-led measures. These measures, if well-designed and adopted broadly, might serve as a foundation for shaping future BBNJ implementation and more robust, globally applicable approaches.

The Geographic & Ecological Scope of the Sargasso Sea & Connectivity

Whilst the **size and shape** of the Sargasso Sea GAC is **well understood** by stakeholders, an important theme that **emerged during this consultation** was the **depth** and **volume** of this space, and its **connectivity**. The GAC occupies an **area** of ~4,163,499km², extending between 22°-38°N, 76°-43°W and centred on 30°N and 60°W; whilst this is large, the **volume** of this space is far greater due to the sea here reaching depths of more than four kilometres in places. This **deceptively large volume** can be **extrapolated to ABNJs more broadly**, which occupy 64% of the world's ocean areas but 95% of its volume.

For the Sargasso Sea this creates a dynamic, volume-based environment with complex and far-reaching ocean currents and gyre dynamics. From a horizontal perspective, ocean currents in and around the Sargasso Sea GAC serve as conduits for everything from fish larvae to pollutants, transporting them across large distances and linking high-seas ecosystems with coastal waters. This linear connectivity underpins the life cycles of commercially significant species like European and American eels, both of which spawn only in the Sargasso Sea before migrating back to coastal or riverine environments, creating economic value of the order of billions of dollars per year. Timescales can also vary widely, with some planktonic larvae remain viable in the water column for weeks, and some pollutants for months or longer.

Considering **vertical connectivity magnifies** these **interdependencies**. Deep-water seamounts act as feeding grounds, stepping stones for migrating species, and centres of nutrient upwelling. Such features drive energy exchanges upward and outward, enhancing productivity at different depths. As a result, **changes within this portion of the North Atlantic** can ripple outward, **affecting not only adjacent waters but coastal areas** dependent on it for their fisheries, tourism, and coastal resilience.

Understanding Key Vulnerabilities

Similarly to the Copenhagen event, **key areas of vulnerability** were identified around **whale-strike risk**, **disturbance** and **damage to sargassum mats**, and **vessel discharges**. Data and recently re-examined analysis from SEDA contributions by Duke University's MGEL, demonstrated that 95.1% of vessels crossing the GAC were Cargo (58.9% of traffic), Tanker (29.1%), Passenger (3.9%), Reefer (1.6%) or Bunker (1.5%) ships; on average vessels crossed at 13 knots. However, about 16% crossed at **notably greater speeds**, above which there is a **>80%** chance of **lethal injury** for cetacean strike. New analysis showed that **vessel traffic over the GAC** had a **significant tendency** to **cross** the North Atlantic **Humpback Whale Migratory Corridor** (which is active North-to-South from October to early December, and South-to-North from March to May), with approximately 95% of observed vessel traffic transecting this corridor. The significance of this vulnerability was well recognised; it was also noted that the **species of interest do not swim deep enough to avoid vessels**.

The **World Shipping Council** noted that they have engaged in significant whale mapping work, producing an **available-to-all whale map**⁴; they offered to discuss data sources and analysis methods with the Project to further this analysis.



⁴ https://www.worldshipping.org/whales

A key question from the industry was **which types of vessels** were **crossing** the GAC **at notably higher speeds** and if there are any characteristic attributes of these vessels which might enable targeted engagement or bespoke measures. The **data currently available does not offer this granularity**, but this was acknowledged as an area for future additional data requirements and analysis.

A second potential vulnerability are the **large floating sargassum mats**, which are essential habitats for numerous characteristic Sargasso Sea species and wider commercially valuable species. These are **susceptible to disturbance by vessels** breaking them apart and overturning them. An action from the Copenhagen consultation was to investigate the availability of earth observation data looking at this. Analysis showed that **highly fragmented sargassum** could **not be seen using earth observation**, and that the primary scientific earth observation sources (the ESA SENTINEL 1 and 2 satellites) had very limited coverage of the Sargasso Sea. This is an **open monitoring challenge**, and new sensing approaches such as **'platform of opportunity'-based monitoring**, might beneficially address this gap.

Further analysis had also been carried out on **discharges** and **ballast water**, including demonstrating **detection** from **earth observation** sources. However, **minimal coverage of the Sargasso Sea** from earth observation sources again **limits the breadth of data available** to analyse. Alien species have been identified in the Sargasso Sea, with ballast water as the most likely source. The **wider impacts of discharges** on the ecosystem are of interest, but **not yet well understood**, and **data from the industry side could help** this analysis in order to assess if there is a negative impact, and to quantify the level of actual discharge in the area. **Industry members noted** that **offshore waters** often serve as **'dumping zones' for discharges**, including biofouling cleaning, and that the effect of pathogen pressure on the ecosystem is not yet well understood. This was seen as a **potentially significant area**, but one **requiring more scientific understanding** that could be aided by data collaborations.

These vulnerabilities were the focus of the conversation; however, **the community** was also **most interested** in **understanding** the **full breadth of vulnerabilities** and **ecosystem pressures** that had been considered and analysed. With the SEDA reaching a complete mature draft, it was agreed that **a table of identified potential vulnerabilities would be provided to the community soon**, as a focal point for **future discussions** and **voluntary measure development**.

Defining & Implementing Effective Voluntary Measures

A primary theme throughout the meeting was how to design voluntary measures that achieve tangible ecosystem gains without overburdening an industry already navigating complex regulatory landscapes. Summarising the core attributes developed in earlier consultations, participants reiterated that voluntary measures should be:

- Evidence-Based: Voluntary measures must address well-defined risks, supported by robust scientific findings. Where gaps exist, collaborative research partnerships with industry could help provide additional data and improve certainty where required.
- Practical & Implementable: The pathway to implementing any proposed voluntary measures must be realistic, and must be coherent with existing frameworks of governance, working in addition to these where required. The room expressed a variety of views regarding how ambitious measures might be whilst remaining realistic, ranging from small additions to business-as-usual aimed at building uptake, to boundary-pushing approaches using the voluntary nature of the measures to explore the art-of-the-possible. The consultation did not pre-empt formal discussion of this, which is a matter for SAP development; however, technical and operational practicality was emphasised. On the latter point measures should be easy to understand and easy to action, including by crews that may not primarily speak English. Technically there must also be a way to implement the measures. For example, in an area such as realising zero-discharge voyages, industry representatives were largely aligned with the



Project. However, it was noted that **vessels must discharge** *somewhere* and are **typically not allowed** to do this **within EEZs**. Hence, addressing this issue may require **changes to port infrastructure**, such as the **improvement of reception facilities**, to be realistic. These enablers could be identified and collaboratively worked towards, to the benefit of all parties, as the SAP is developed and implemented.

- Measurable & Transparent: Meaningful uptake depends on the ability to track compliance and demonstrate outcomes; this should be a formal and independent approach to ensure its validity. Several participants advocated for establishing feedback loops, so crews can see how their actions provide ecosystem benefit and be recognised internally, and companies can show positive results to stakeholders and the supply chains they enable. The notion of voluntary certification was also raised, with the cruise industry cited as an example of where voluntary certification has been successful and reputationally beneficial.
- Incentivised & Supported: Education, cost-sharing (or cost reduction, e.g., in a reduction of port fees) arrangements, and reputational benefits (such as through sustainability branding) can encourage widespread adoption. Importantly, many suggested that charterers, port authorities, and cargo owners be enlisted to create the commercial environment for uptake, including indirect incentives such as shoreside infrastructure improvements aligned to voluntary measure implementation.
- Adaptable: In a point of difference to the Copenhagen event, participants at this Singapore event also
 emphasised the need for measures to be adaptable, tailored to the region, and targeted. It was seen
 as positive if measures recognised that different vessel types, cargo configurations, and routes create
 varying operational pressures, and that measures may need to be seasonal, geographically targeted,
 or flexible in application. Seasonal measures and warning-based systems, based on examples of
 successful practice elsewhere (e.g., in the North Atlantic), were seen as an important reference on how
 to achieve the intended environmental benefits whilst minimising unnecessary commercial impacts.
 It was not the view of participants here that measures need to aspire to be highly generalisable,
 however, the framework by which these measures are designed should be.

Reconciling Speed, Emissions & Commercial Realities

The conversation also addressed the **complex trade-offs between lowering speed to reduce whale-strike risk** and **GHG emissions reduction**. **Not all ship types benefit from reduced emissions when transiting more slowly**. Vessels with diesel engines and gas turbines were given as examples where total voyage GHG emissions may increase for lower vessel speeds, primarily due to gas venting or burning to maintain tank pressures. These **trade-offs** may present edge cases, for certain vessel types, that limit where speed reduction measures can be applied whilst ensuring the industry can comply with its wider environmental obligations.

The same concerns were raised for **routing measures**; it was noted that the **most fuel- and emissions-optimal routes are generally followed**, which is also **often the shortest route**. If such measures are proposed this **trade-off** will need to be **assessed**. Route pre-planning is decreasing and route variance is increasing due to improvements in weather prediction and dynamic route planning for emissions. This may need **voluntary measures** to be **reflected in routing technology** as well. Nevertheless, it was noted that **voluntary routing measures** have **already** been **successfully demonstrated** (without a PSSA⁵ or similar measure), for example in the Indonesian archipelagos, so such new measures would build on established practice.

⁵ PSSA – Particularly Sensitive Sea Area: an area that needs special protection through action by IMO because of its significance for recognised ecological or socio-economic or scientific reasons and which may be vulnerable to damage by international maritime activities. <u>https://www.imo.org/en/ourwork/environment/pages/pssas.aspx</u>



Similarly to the last consultation, **commercial obligations** and **charter-party agreements** were highlighted as **key to realising voluntary measures** such as speed reductions. These agreements can specify transit windows and appropriate reasons for slowing or deviating. **Unless they permit** these **voluntary actions** in the context of reduced ecosystem impact (or more specific aspects such as reducing marine mammal risk), liability and **costs will be left with the shipping industry presenting a fundamental barrier to uptake**. This issue was also raised in Copenhagen, and it remains highly relevant to investigate whether **environmental considerations** can be **integrated into existing standard charter-party contract clauses**, and if any existing standard clauses could be seen to cover such things. It was noted that **inspection regimes such as SIRE** (Shipping Inspection Report programme)⁶ and **RightShip**⁷ have been brought into charter party agreements and so **may exemplify what is possible**. Lastly, the industry strongly emphasised the **need to bring these wider elements of the shipping industry into the Project consultation process**.

Data Sharing, Collection, & Communication

Addressing data scarcity emerged as a high priority. Many operators expressed a willingness to share nonsensitive operational data, such as average speeds, observed locations of macro-fauna or large sargassum mats, or even discharge data, but emphasised that new information requests must be streamlined and show direct value to ecosystem monitoring. For instance, vessels-of-opportunity programmes can be effective if they minimise any extra burdens on crews and establish secure pathways for anonymising and aggregating collected data. It was emphasised that a highly trusted data-sharing partner was required to enable this, and that, in this context of voluntary measures, the risk of intentional or unintentional penalisation, consequent of data sharing, must be minimised if industry were to participate widely. However, with those points made, the industry was clear that data-sharing is achievable and solvable.

Industry representatives noted **existing digitalisation** efforts, such as advanced route-planning tools and environmental management software, that **could** potentially **integrate whale patterns** or **other** layers reflecting **voluntary measures**. Yet, these **systems come at a cost**, and there would need to be a clear **expression of interest** from **shipowners** and **end-users**.

Education & Awareness Raising

Echoing views from earlier consultations, participants emphasised that **educational outreach**, **targeted** at **crews**, **managers**, **business decision makers**, **ports** and **charterers**, would enhance industry engagement. It was noted that those who do not see and experience the problem directly, or are unfamiliar with the geographic area, are far less likely to realise its importance and to participate. **Clear**, **visually compelling**, **short briefings** on the unique and globally important nature of the Sargasso Sea ecosystem, **videos** illustrating the **impact of prospective measures**, and accessible **impactful infographics**, all have the potential to **build** a **common understanding** of the sea space and **encourage voluntary compliance**.

Broader BBNJ Implications & Pathways Forward

Concluding discussions consistently returned to the question of **how lessons learned in the Sargasso Sea could inform emerging BBNJ frameworks**. Many participants recognised that **if this region can demonstrate** a **functional model** for **voluntary**, **industry-led stewardship**, complete with data-sharing, monitoring, and verifiable outcomes, it **may** help **shape policy and practice** across **other high-seas domains**.

⁷ RightShip vessel inspections evaluate a ship's condition, quality and the effectiveness of Safety Management System (SMS) implementation, adoption of industry recommendations and best practices, and the health and well-being of seafarers onboard. https://rightship.com/solutions/shipowner/vessel-inspections



⁶ The Ship Inspection Report programme (SIRE) is a unique tanker risk assessment tool of value to charterers, ship operators, terminal operators and government bodies concerned with ship safety. https://www.ocimf.org/programmes/sire-2-0

Looking ahead, the **Project Team** is working to **finalise the SEDA** and transition to **formulating a Strategic Action Programme** (SAP). From the **industry's** perspective, there is a **strong desire** for **clarity and specificity** in any **proposed measures** and for **aligning** measures with **existing instruments**, **processes**, **and governance frameworks** to ensure measures are coherent and adoptable.

Of greatest importance is that this, and the prior consultation in Copenhagen, have **established the foundation for collaborative development of the SAP** and related shipping industry-led measures. At the end of the first consultation, in London in April 2024, the **Industry was asked how it wished to be engaged**; it **strongly encouraged** *this consultative process*. At the end of the Singapore event, we asked **how** the **industry** wished to **move from** a **high-level discussion** of SEDA results and voluntary measures in general, to a **more specific discussion** and **voluntary measure drafting** activity. The response this time was to *establish an informal industry working group* for the development of voluntary measures in the Sargasso Sea GAC. These measures will be developed for the geography and its unique ecosystem vulnerabilities, but it was seen as important that they were derived from a more general framework of goal-based principles that could be **applied across BBNJ**. From this, fair, impartial and SMART⁸ voluntary measures may be developed.

The next **concrete steps** the Project will take **together** with the international shipping industry as the **Project moves from SEDA to SAP** will be to:

- Establish an informal shipping industry group: to, amongst other things, discuss a Project-provided more detailed document summarising potential vulnerabilities (initially with evidence from the SEDA), and existing approaches or governance frameworks, that may partially or fully address them.
- Broaden the shipping industry-related consultative base: to include those necessary for compliance to be commercially feasible, such as charter parties, port authorities and infrastructure owners & developers.
- Continue the positive, collaborative and participatory tone of these consultations: it was the view of the room that if Voluntary Measures can meet the criteria described above, most organisations would consider them favourably and seek to implement them.

⁸ SMART: Specific, Measurable, Achievable, Relevant, & Time-Bound.

Appendix 1: Concept Note & Agenda for 3rd International Shipping Industry Consultation: "Strengthening the Stewardship of a Biologically and Economically Important High Seas Area – The Sargasso Sea".

By Invitation: Sargasso Sea GEF Project Shipping Industry Consultation 3 – "Consultation on Vessel Activity in the Sargasso Sea: possible impacts, voluntary measures and industry participation"

Date: 14th February 2025 Time: 10am-4pm SST (GMT + 8)

Location: Singapore – Orchard Hotel, 442 Orchard Road, Singapore 238879 (and online)

Concept:

The Sargasso Sea Commission has been working for over a decade to provide a framework for collaboration focused on conservation of the Sargasso Sea. With funding from two major grants from the Global Environment Facility (GEF) and the French Facility for the Global Environment (FFEM), the Sargasso Sea Commission is producing a Socio-Ecosystem Diagnostic Analysis (SEDA) that will lay out the ecological and socio-economic benefits produced by the Sargasso Sea, as well as the threats and impacts it faces. This evidence-based document will provide the foundation for a Strategic Action Programme (SAP) for its conservation, to be agreed by Sargasso Sea stakeholders.

A key industry stakeholder group, making significant use of the Sargasso Sea, is the International Shipping Industry. The Sargasso Sea GEF Project has already successfully engaged with parts of this important group early in the SEDA process, to inform them of the Project goals and to build participation and collaboration. One aspect of this engagement is to understand what potential voluntary measures both mitigate the risks faced by the Sargasso Sea (captured in the SEDA) and might support a longer-term monitoring programme for the area that could realistically be adopted by the international shipping industry.

Shipping can have potential impacts on all high seas ecosystems resulting from: collisions with, and the impact from underwater radiated noise on, cetaceans and other marine life; exotic species introduced via ballast water discharge; pollution, including from oil spills, grey water and discarded plastics; and the use of fuels that contribute to climate change.

This meeting will present the draft SEDA findings and discuss potential voluntary measures and areas for collaboration that might mitigate identified impacts and assist in the overall conservation and stewardship of the Sargasso Sea Geographical Area of Collaboration (GAC), including:

- Generalisable (global) voluntary measures and principles, relating to: ship strikes; underwater radiated noise; water and waste discharge; and fuel usage that are only area specific (unique) where necessary;
- Voluntary passage planning measures (routing & speed), potentially including those that are temporary or seasonal, mitigating cetacean impacts when and where they might occur;
- Proactive participation in the form of voluntary monitoring, data collection and data sharing, supporting observations of high seas flora and fauna, and maintaining an understanding of the ecosystem's state;
- Certification and recognition systems for voluntary sustainability compliance; and,
- Any new ideas brought forward by participants and stakeholders.

Whilst the focus of this event will be on the Sargasso Sea, our planet only has one ocean (as depicted in the Spilhaus Projection⁹); all areas beyond national jurisdiction (ABNJ) are connected with all EEZs and all coastal waters. As such this GEF Project is seen by many as a potential 'pilot project' for the new BBNJ Agreement implementation meaning its thinking may represent a wider view of ABNJ protection globally.



⁹ https://storymaps.arcgis.com/stories/756bcae18d304a1eac140f19f4d5cb3d

This is an invitation-only meeting, designed to foster the cooperation of shipping industry professionals and Project stakeholders, including the:

- Sargasso Sea Commission secretariat and project team.
- Industry representatives including industry bodies and shipping organisations.
- Maritime industry IGOs.
- Academia representing contributors to the Sargasso Sea Project, the SEDA and maritime law & governance.

<u>Agenda</u>

Session 1: 1000-1115

- Welcome & Administration / Individual Introductions (20 minutes)
 - Overview: Sargasso Sea & GEF Project (10 minutes)
- Stakeholder Engagement Process / Summary of Consultation 1&2 (10 minutes)
 - Summary & Update of Project SEDA & SAP (15 minutes)
- Paper: Vessel Traffic in the Sargasso Sea Geographical Area of Collaboration, 2019-2021 (20 minutes)

Short Break (15 minutes)

Session 2: 1130-1230

- o Q&A session on presented Paper related to the international shipping industry (30 minutes)
- Current Best Practice: Existing shipping industry conservation activity and voluntary measures (30 minutes)
 - Light Lunch & Networking (1230-1315)

Session 3: 1315-1430

- o Blue/Green corridor approaches to sea management (University of Copenhagen) (15-20 minutes)
 - Connectivity between areas within and areas beyond national jurisdiction (10-15 minutes)
- Roundtable 1: What defines good, generalisable (global) voluntary measures, collaborations, measures
 of effectiveness, and transferability / where might unique measures be necessary (45 minutes)

Short Break (1430-1445)

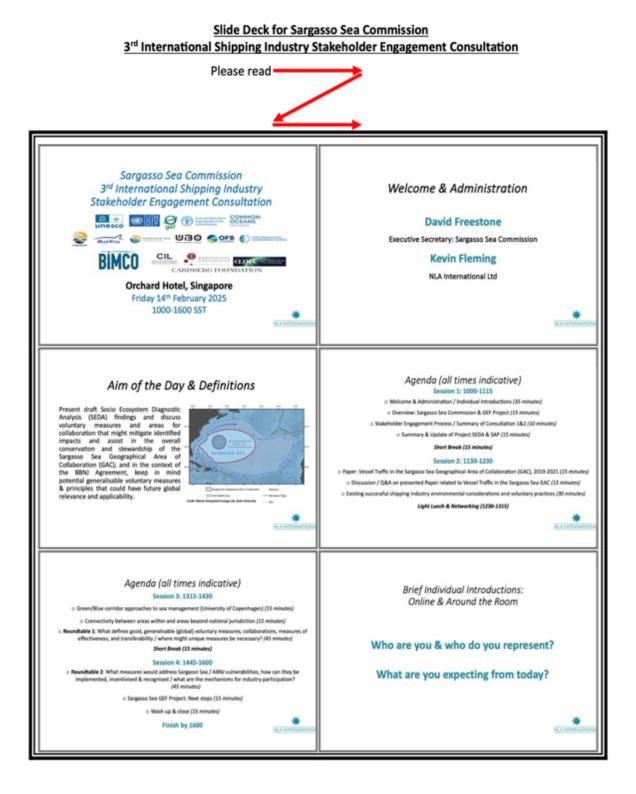
Session 4: 1445-1600

- Roundtable 2: What measures would address Sargasso Sea / ABNJ vulnerabilities, how can they be implemented, incentivised & recognised / what are the mechanisms for shipping industry participation (45 minutes)
 - Sargasso Sea GEF Project: Next steps (15 minutes)
 - Wash up & close (15 minutes)

Finish by 1600



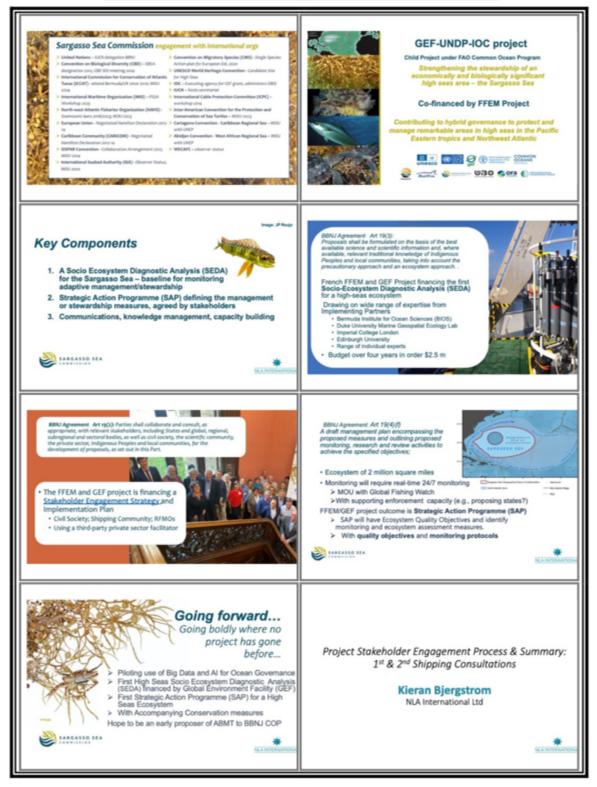
Appendix 2: Slide Deck for 3rd International Shipping Industry Consultation: "Strengthening the Stewardship of a Biologically and Economically Important High Seas Area – The Sargasso Sea".







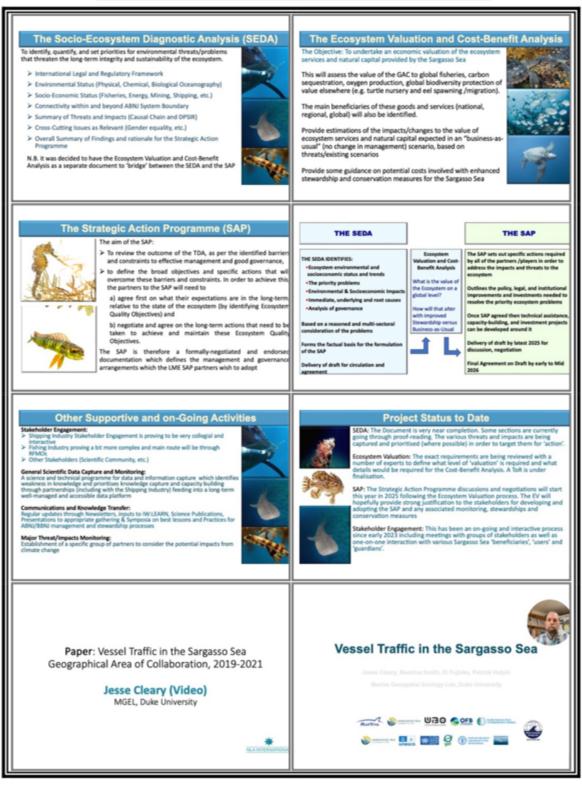








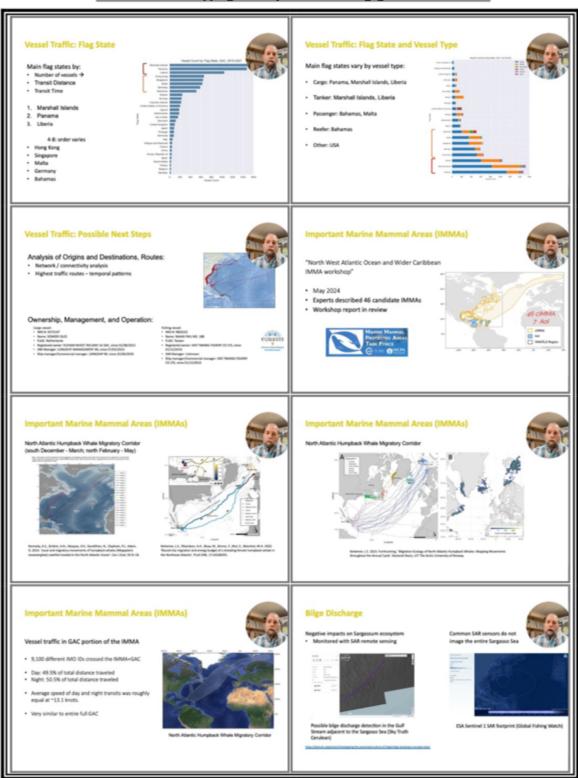




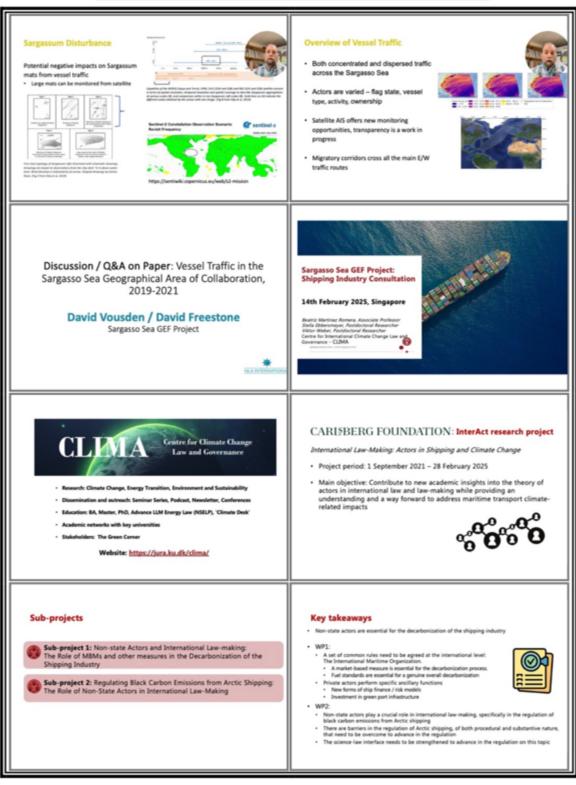




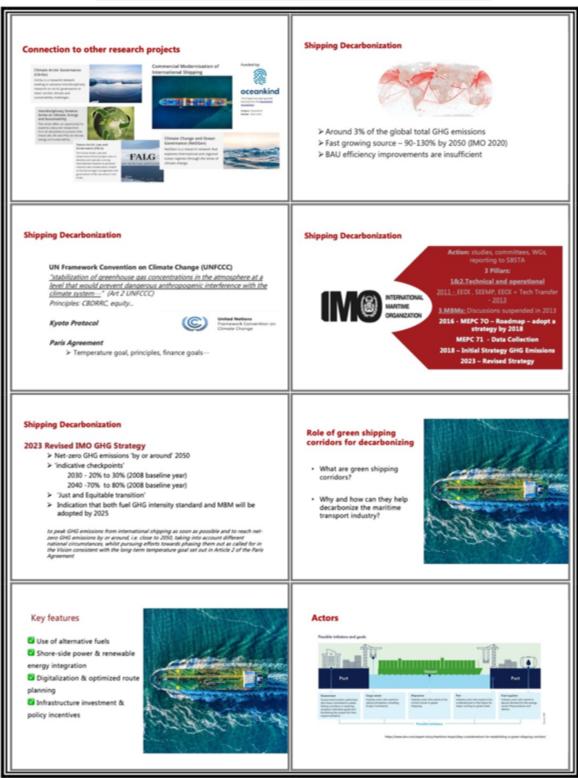




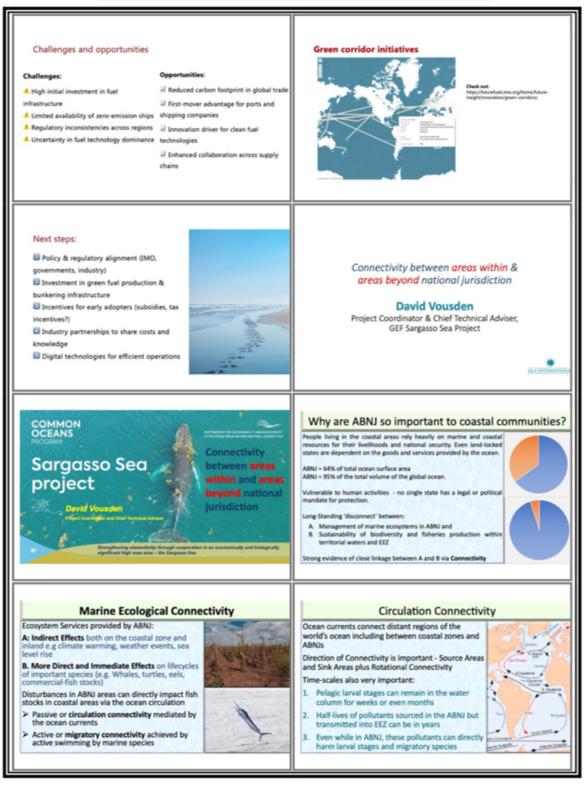




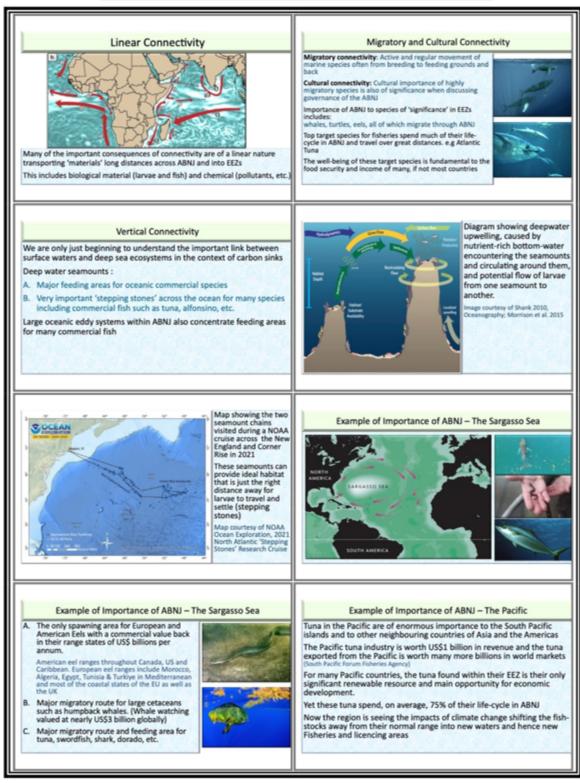














Re-confirming the Importance of ABNJ to National Jurisdiction and National Welfare > Tourism: interacting with charismatic marine fauna is a growing touris sector. The protection of migratory species throughout their range is therefore of economic Importance > Many Coastal Flasheries are dependent on a 'protected' and healthy ABNJ (e.g. Tuna, Spanish Mackerel, Shark) > Ecosystem Resilience through renewed larval transmission is critically important to high-diversity marine coastal ecosystems such as coral reefs (often 'seeded' by larvae from a long distance away) > Impacts from Pollution in ABNJ can have chronic, long-term impacts on coastal ecosystems	BBNJ and Connectivity- A Summary > ABNJ are enormously valuable and important, not only to coastal states and SIDS but to all countries of the world. > Their impact on climate change and associated weather events (e.g. hurricanes, floods, droughts, wild-fires) is highly significant for land-locked countries > Until recently, developments on management and protected areas in the ABNU tended to focus on direct, specific ecological and biological significance. > The socioeconomic vulnerability of areas downstream of activities in ABNJ is equally if not more important > Both coastal states and land-locked countries should be as concerned about effective conservation measures in their adjacent and even distant ABNJ (and the Biodiversity therein) as they are about their jurisdictional waters
 How Ratification of the BBNJ Agreement is also in the interest of Coastal States Equitable management of activities in the ABNJ, (including lifecycles of fishery resources and commercially and culturally important species) is critical to protect the rights and interests of coastal states Better understanding of the ocean-atmosphere interaction related to climate change and extreme weather events will allow for a more efficient predictive strategy for all of the countries of the world The BBNJ Agreement allows for the negotiation of such management, monitoring and conservation measures, but only once it comes into force after sufficient ratification 	Relevance of Connectivity to the Shipping Industry – The Ecosystem Perspective Biofouling & Ballast Water as transmission vectors between High Seas and coastal waters: Undesirable 'connectivity' of invasive species and pathogens from one oceanic area to another Pollution, Contamination & Waste Disposal underway: Gyres such as the Sargasso Sea N. Atlantic Gyre can trap these within the Sargasso Mats etc. Collisions and Other Physical Contacts (Including Noise): This can interfere with migrating and feeding species which are as "important" if not more so during their nearshore life-cycles Knowledge Gaps and Monitoring: Potential enormous value of vessels in transit as partners in monitoring and information collection (Ferry Boxes; Continuous Plankton Recorders)
Relevance of Connectivity to the Shipping Industry - The BBNJ Agreement BBNJ Agreement requires signature and ratification (Singapore = ©). Agreement needs 60 ratifications to come into force. Currently at 17 Only those countries that have ratified have decision-making rights in the COP But N. B. BBNI COP must 'not undermine, relevant legal instruments and frameworks or relevant global, regional, subregional and sectoral bodies' (e.g. IMO) or 'the effectiveness of measures adopted in respect of areas within national jurisdiction and shall be made with due regard for the rights and dutes of all States' There is an element of 'Connectivity' here for the Shipping Industry Only those Port States and Flag States that have ratified the Agreement would be in a position to vote for or oppose decisions in the BINI COP related to activities or restrictions in the High Seas that might affect their vessels	Thank You for your Interest For more information please read: Connectivity between the areas beyond national jurisdiction and coastal waters: Safeguarding interests of coastal communities in developing countries. Ekaterina Popova et al.,(2019). Marine Policy. Vol. 104, June 2019, Pp 90-102. Any Questions?
Roundtable 1: What defines good, generalisable (global) voluntary measures, collaborations, measures of effectiveness, and transferability / where might unique measures be necessary? (45 minutes)	Roundtable 1: What defines good voluntary measures and collaborations? • What would characterise a 'good' or 'acceptable' voluntary measure? • Impactul & effective: Implementable & realistic; Measurable; Receptable vs. challenging? • What types of voluntary measures would be acceptable vs. challenging? How is that boundary drawn? • Is it feasible to create a framework of measures that could be applied 'anywhere' with a case-by-case selection? • How should measurement and Impact analysis look, and how should measures be refined? • Do current initiatives provide examples of best practice?



