



March 2020 Newsletter

Welcome to the March 2020 newsletter of NavClimate, the Navigating a Changing Climate initiative¹. This newsletter provides an overview of preparations for COP26 in Glasgow, and highlights various recent activities of the NavClimate partner and supporter organisations.

Preparations for COP26 in Glasgow, UK

You may recall from the December 2019 newsletter reporting on the outcomes of COP25 held in Madrid, that there were a number of recurring themes, including:

- The **urgency of climate action**, both decarbonisation and adaptation
- The need for a **global reduction in emissions of 7.6% per year** to avoid massive impacts
- **Inclusivity is key**: no-one must be left behind
- Climate change is a risk to life, to business, to governance: **“we need to get everybody, including transport ministers and finance ministers engaged in the discussions”**
- There is a vital need to improve the resilience of infrastructure: **“infrastructure that is not resilient won’t be insurable”**
- **Adaptation** can and should have a net positive outcome... **it is not just about ‘coping’**
- **Resilience is needed at systems level**; climate change is a systemic challenge.

The 26th meeting of the Conference of the Parties to the UN Framework Convention on Climate Change, to be held in Glasgow, in November 2020. Initial preparations for COP26 are now underway, and many of the above messages were reiterated at the Marrakech Partnership Strategy and Planning Meeting, organised by representatives of the UNFCCC in London, UK in February 2020.

Patricia Espinosa, the UNFCCC Executive Secretary, noted the need for greater trust and improved knowledge to help to facilitate the transformative action needed to address the climate change challenge. She highlighted that Governments must enhance their nationally-determined contributions (NDCs); that work is needed to reduce the gap between reality and action; and that Parties should collaborate with non-party stakeholders to achieve Paris Agreement goals.

Alok Sharma, the Minister for the incoming COP 26 UK Presidency, had only been in this role for a few days but expressed his support for the Global Climate Action agenda and the Marrakech Partnership objectives. He also shared some initial thoughts:

- Acknowledging that ‘We all know a zero-carbon economy will not be achieved by Governments alone’ and
- Highlighting the UK vision ‘the world must ramp up action towards a zero-carbon economy; this must be inclusive and no-one should be left behind, but everybody needs to contribute’.

In terms of his personal priorities for COP26, the Minister stressed the importance of:

1. Climate change adaptation and resilience
2. Nature and nature-based solutions for both mitigation and resilience
3. Energy transition
4. Clean road transport
5. Finance: the need for trillions of USD for climate change action.

¹ NavClimate: a Marrakech Partnership Global Climate Action initiative. Find out more at <https://navclimate.pianc.org/>



Forthcoming NavClimate events

The Navigating a Changing Climate partners are busy organising a series of events to mark the end of the current programme of work set out in the 2015 – 2020 Action Plan. The following events are planned, although the current COVID-19 crisis has already taken its toll on the first of these ...

#IAPH2020 World Ports Conference

As a result of the recent spread of COVID-19, the International Association of Ports and Harbors (IAPH) has unfortunately had to cancel the [IAPH 2020 World Ports Conference](#), which was due to be held between 17-19 March in Antwerp, Belgium.



A key feature of this event for the NavClimate partners was to have been the presentation, by Jan Brooke as Navigating a Changing Climate Focal Point, of the results of the partners' costs and consequences of extreme weather events survey. This presentation was scheduled during the Risk and Reputation stream of the conference. A summary of these outcomes will also be prepared for the next NavClimate newsletter.

Sediment management opportunities to address the climate change challenge



In September 2020, the Navigating a Changing Climate partners will collaborate with NavClimate supporter SedNet (the European Sediment Network) to run a two-day workshop on the theme 'Sediment management opportunities to address the climate change challenge'. This event will cover topics such as nature-based solutions, Working with Nature and natural resilience; beneficial use of dredged material in the application of the waste hierarchy; habitat enhancement for improved ecosystem services; and carbon sequestration and management. Speakers will comprise a mix of invited experts and a call for presentations, the latter to be launched later this month (March 2020).

Further details will be available on the SedNet <https://sednet.org/events/> and NavClimate events pages <https://navclimate.pianc.org/events>.

Navigating a Changing Climate at COPEDEC

On Thursday 19th and Friday 20th November 2020, the Navigating a Changing Climate partners will organise a two-day conference as part of the 10th International Conference on Coastal and Port Engineering in Developing Countries (COPEDEC) to



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be held in The Philippines, hosted by The Philippine Ports Authority (see <https://www.pianc-copedec2020.org/>).

The themes of this 'conference within a conference' will include:

1. Moving towards '**net zero**' emissions of greenhouse gases from port infrastructure including the port estate
2. Ports' role in enabling the **reduction of greenhouse gas emissions from vessels**
3. **Intermodality** and system-level climate change resilience
4. Effects of **extreme weather**, including risk assessments, contingency plans and warning systems
5. **Monitoring** and adaptive management for responding to change
6. Climate change **adaptation**, including theory and practice, methodologies and case studies
7. Optimising **operational resilience**, including the role of inspection and maintenance
8. Flexible and **adaptive infrastructure design**
9. **Nature-based solutions** to improve navigation infrastructure resilience
10. **Other climate change** topics

The call for abstracts for the event is now open. **The deadline for the receipt of abstracts is 30th March 2020.**

Navigating a Changing Climate partner members, supporter organisations and other climate change practitioners and researchers around the world are encouraged to submit an abstract and to share their experiences.

For instructions on how to submit an abstract, please download the Navigating a Changing Climate document at <https://www.pianc-copedec2020.org/call-for-abstract>.

Adaptation Futures 2020

At the time of writing, it is thought that Adaptation Futures 2020, the flagship event of the World Adaptation Science Program, will go ahead as planned from 27-30 April 2020 in New Delhi, India. PIANC, on behalf of the Navigating a Changing Climate partner organisations has been active in convening a number of sessions on climate change adaptation for the wider transport sector. PIARC, UIC and International Road Federation are amongst the organisations that have offered presentations to three sessions at this conference:



- Transport adaptation: collaboration and innovative financing to drive a paradigm shift
- Climate change adaptation for the transport sector: tools and methodologies, case studies and lessons learned
- Advancing organizational climate resilience by managing systemic climate risks – Examples from the transport sector

More details about the Adaptation Futures event can be found at <http://adaptationfutures2020.in/#>

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News from the NavClimate partners

News from PIANC

PIANC is pleased to announce the appointment of the following '**Climate Change Champions**' to each of its technical Commissions. These individuals will also represent their respective Commission on PIANC's Permanent Task Group on Climate Change.

Name	Nominated by (country)	To (name of PIANC Commission)
Gildas Colleter	Australia	MarCom
Jeremy Giovando	USA	InCom
Kate Panayotou	UK	EnviCom
Greg Fisk	Australia	RecCom



The Climate Change Champions will be responsible for raising awareness and promoting cooperation between the Commissions and the PTGCC, including in relation to PIANC's many technical working groups.

They will also have a vital role in helping to ensure that PIANC delivers on the Association's aspirations as set out in its **Declaration on Climate Change**. In case you missed it in the last NavClimate newsletter, the PIANC Declaration was launched by our President at COP25 in Madrid in 2019. A copy can be downloaded from <https://www.pianc.org/navigating-a-changing-climate>.



International Harbour Masters Association

News from

The International Harbour Masters' Association (IHMA) was honoured to represent the NavClimate partners at the **Resilience Shift round-table** held in Cambridge, UK, on 28th–29th November 2019. The premise of the meeting was to establish ways that professional institutions and associations can work together to accelerate change in how resilient infrastructure is delivered in practice. This meeting followed a series of round-tables convened by the Resilience Shift during 2018 and 2019 including the Ports and Logistics meeting which was held in London on 26 November 2018 to explore the challenges and opportunities for the resilience of ports and logistics.

The participants in the round-table were identified based on their interest in and action on infrastructure, and any particular activity in relation to resilience. They included representatives from the electric, construction, highways, and city planning sectors among others.

IHMA Secretary, Ms. Sabrina Delelis, gave a short vignette of the Navigating a Changing Climate initiative's work to encourage the owners, operators and users of waterborne transport infrastructure to act to strengthen resilience and improve preparedness to adapt to the changing climate. Following presentations from all participants, discussions covered a variety of ideas related to critical infrastructure resilience such as recognition that financial institutions and the insurance industry will play a role in changing attitudes and actions on investment in resilient infrastructure and a need for further education around resilience.

A full report of the Resilience Shift round-table will be made available to NaCC partners and supporters in the coming weeks.

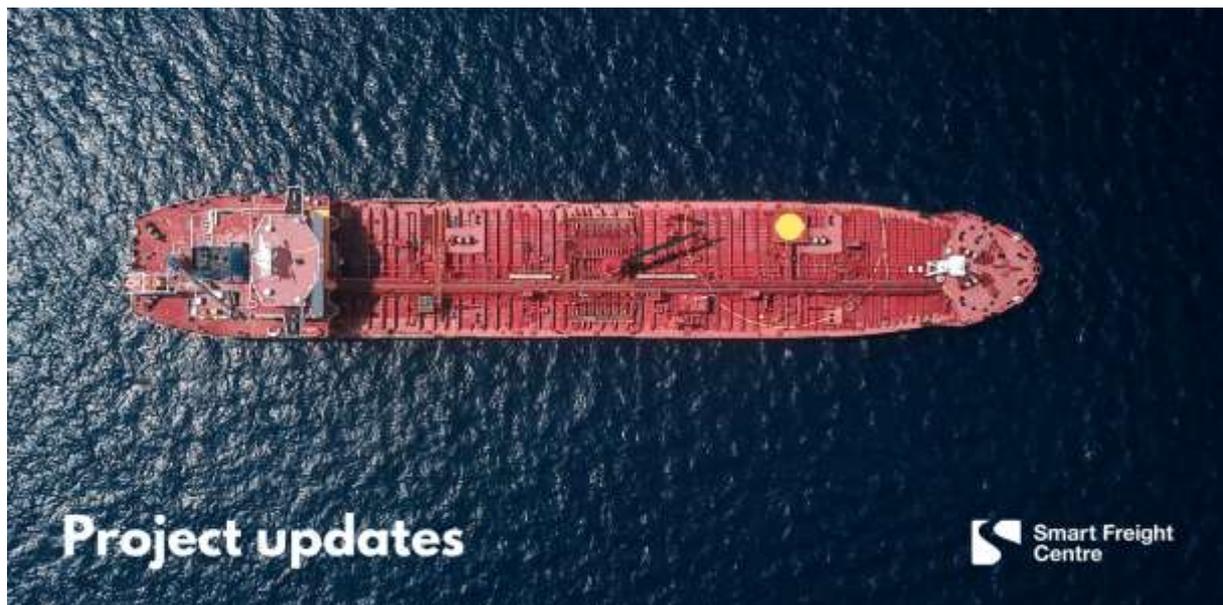
IHMA participating in the Port Symposium "A holistic approach to standards for port operational data in maritime supply chains"

Project Officer to the International Harbour Masters' Association, Captain Ben van Scherpenzeel, will represent the Association at the Port Symposium "A holistic approach to standards for port operational data in maritime supply chains", to be held on 30 April 2020 at IMO headquarters in London.

The symposium will address the priorities and challenges in the development of international standards for operational data in ports, including for berth to berth navigation, the ship-port interface and the end-to-end supply chain. The programme is in line with the findings of the IMO Global Industry Alliance (GIA) for Low Carbon Shipping, to realize e.g. Just In Time Arrivals.

Remote participation in the event is open to IMO's Member Governments, IGOs, NGOs and the general public and information regarding livestreaming the event can be found at <http://www.imo.org/en/About/Events/Pages/Port-symposium-30-April-2020.aspx>

News from Smart Freight Centre



We're pleased to announce that [Smart Freight Centre](#) (SFC) is a partner in a new EU-funded project that is due to start in Spring 2020. IW-Net (Innovation driven Collaborative European Inland Waterways Transport Network) will deliver a multimodal optimization process across the [EU Transport](#)

[System](#), increasing the modal share of [Inland Waterway Transport](#). The project will address barriers to reach an efficient and competitive IWT sector. This will include infrastructure bottlenecks, insufficient IT integration along the chain and slow adoption of technologies such as new vessel types, alternative fuels, automation, IoT and machine learning.

SFC's role within the project will be to transfer best practice in GHG emission calculation and associated data collection from other sectors to the context of the inland waterway sector. SFC will support the partners to assess the potential impacts of the project measures in the short, medium and long terms. SFC will also take the lead in compiling a roadmap for development of IWT infrastructure developments to 2030.

Are you passionate about reducing emissions in the freight sector and in particular the pivotal role of Inland Waterways? You could be the Technical Expert SFC are looking for. For more information [click here](#). For more information on Smart Freight Centre, go to: www.smartfreightcentre.org

Meanwhile work continues at SFC on the development of a new international standard for the quantification and reporting of GHG emissions from transport operations. [Alan Lewis, SFC's Technical Development Director](#), is project manager of the working group. This complements and formalizes the work Alan led in developing the [GLEC Framework](#) – the industry approach for harmonized logistics emission account and reporting across the multimodal supply chain. The ISO development is approaching the end of its first phase and an initial working draft will be available for comment via subscribed national standards bodies in the Spring.

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News from NavClimate Supporters

European Green Deal

In December 2019, Commission President von der Leyen introduced the European Green Deal, a set of policy initiatives that aim to make Europe climate neutral by 2050.

The Green Deal provides a roadmap to make the EU's economy sustainable by turning climate and environmental challenges into opportunities across all policy areas. It sets out actions to boost the efficient use of resources by moving to a clean, circular economy, to restore biodiversity and to cut pollution. It outlines the investments needed and the financing tools available, and explains how to ensure a just and inclusive transition to move to climate neutrality within the next 30 years.

To achieve all this, a European Climate Law is proposed to turn the political commitment into a legal obligation and a trigger for investment.

To find out more, see https://ec.europa.eu/info/priorities/european-green-deal_en or read the communication downloadable at https://ec.europa.eu/info/sites/info/files/european-green-deal-communication_en.pdf.

Several European NavClimate partner and supporter organisations have prepared position statements on the Green Deal. Navigating a Changing Climate partner, the European Sea Ports Organisation (ESPO) published its position paper in February 2020. The paper can be accessed at:

https://www.espo.be/media/ESPO%20Green%20Deal%20position%20paper%20Green%20Deal-FINAL_4.pdf. The input from NavClimate supporter organisations the European Federation of Inland Ports (EFIP) and the European Boating Industry (EBI) are introduced below.



On 11 December 2019, Commission President von der Leyen presented her Green Deal for Europe. NavClimate supporter, the **European Federation of Inland Ports** (EFIP) welcomed the Green Deal's aim and proposals as they are essential to achieve of a carbon-neutral Europe. However, the priorities laid out in the Green Deal will prove insufficient on their own. In order to reach the goal of climate-neutrality detailed questions will need to be addressed in the coming years. This is why, as Enablers of Green Logistics, inland ports have adopted a series of recommendations regarding the European Green Deal

EFIP President Friedrich Lehr said: "The European Green Deal gives inland ports, and European logistics on the whole, a clear direction for the decarbonisation of European transport. European support for multimodal transport, new technologies and innovative city logistics will put inland ports on the right course to meet the goals for 2030 and 2050. Our position paper, available at <https://www.inlandports.eu/views/position-of-the-european-federation-of-inland-por> constitutes our first concrete and detailed contributions to achieve the European objectives and the basis for the cooperation between inland ports and the EU."

Navigating a Changing Climate for recreational boating

The European Green Deal announced by European Commission President von der Leyen has gained a lot of attention in the past months. European Boating Industry (EBI) welcomes its announcement and the ambition is to make Europe the first climate-neutral continent, as well as protecting the marine environment on which a thriving boating sector depends. It promises to be the flagship initiative of the Commission and be highly impactful as well as transformative for a number of industries. Within the recreational boating industry, the topic was discussed at the industry's largest boat show, boot Düsseldorf, at the end of January during the International Breakfast Meeting (co-organised by EBI and boot Düsseldorf).



The European Green Deal and the growth opportunities it offers across all industries, including upcoming funding opportunities were presented by the European Commission. It was followed by talks from electric, hybrid, hydrogen and digital innovators on their role in transforming recreational boating. Reaching the largest-ever audience, the event clearly showed the interest of the recreational boating industry in the environmental transition.

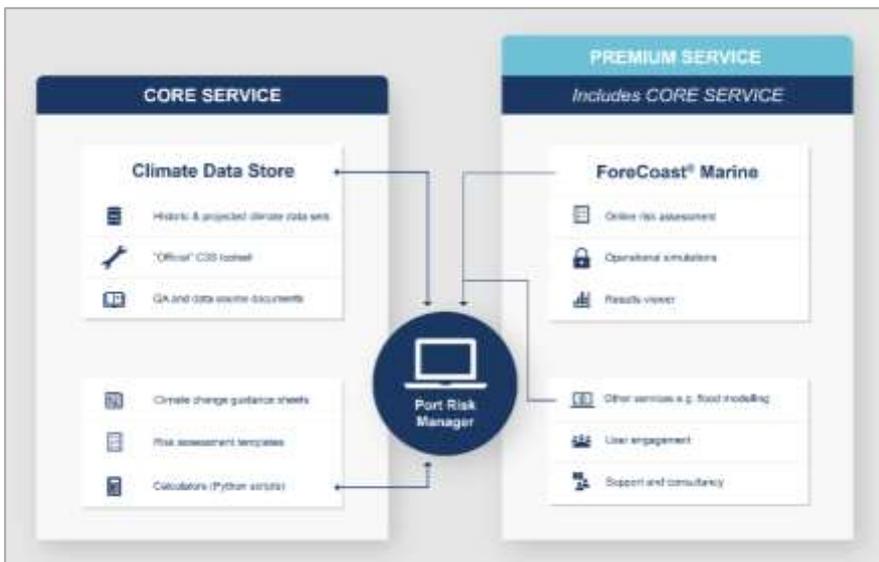
For **EBI**, the issue of sustainability will be at the heart of its work in the coming years to represent and advocate for the European recreational boating industry at EU level. This includes the continued transition of the industry towards environmental sustainability, circular economy and ensuring recognition of its economic role at European level. A significant aspect of this will also be climate change adaptation of boating and its infrastructure, such as marinas.

To follow EBI's activities, please head to europeanboatingindustry.eu or connect on social media: Twitter - @EBI_Boating | LinkedIn - European Boating Industry

A new climate risk management service

With support from the EU Copernicus program **Climate Change Service (C3S)**, **JBA Consulting** has collaborated with two major UK ports to develop the **Port Risk Manager**, an advanced web service designed to provide port planners and decision-makers with a range of freely available self-service risk management products and access to advanced, in-depth risk management technology. Users can carry out high level risk assessments and understand the related implications and limitations of doing so, through free access to the **C3S Climate Data Store** and downloadable tools and guidance.

Further, using JBA's innovative **ForeCoast® Marine** risk management application, and based on information provided by the ports themselves, JBA can simulate real, key operational activities at the ports, their interdependencies and associated metocean constraints. By varying the underlying metocean data to include both historic and climate projection data sets and interacting with bespoke output displays, the port can assess resulting changes to its operations, thereby providing valuable input its climate change adaptation strategies.



The service can also be used to simulate a range of “what-if” scenarios and generate a wide range of outputs configured to the individual circumstances of the user. By changing the configuration of the port model, for example by adding or removing a quay or a new vessel type, we can assess the impact of such changes on port operations. In the future, it is planned that port users will also have access to other services through the Port Risk Manager web portal.

The Port Risk Manager enables port planners, managers and decision-makers to visualise and comprehend the impacts of climate and other changes on port operations, infrastructure and stakeholders before they happen, thereby increasing awareness, demonstrating due diligence and optimising future planning.

About JBA

JBA Consulting is part of the JBA Group, an environmental, engineering and risk group that has grown to be one of Europe’s leading specialists in environmental engineering and environmental management. We are engineers, environmental consultants, scientists and designers, managing weather and environmental risks and opportunities for our clients. With our head office in northern England, we have twenty-one offices in nine countries around the world. JBA Consulting is proud to be a supporter of the **Navigating a Changing Climate** Partnership.



Further information

For more information on the Port Risk Manager and JBA Consulting, please contact martin.williams@jbaconsulting.com.

For more information about ForeCoast® Marine in the ports sector, please visit <https://www.forecoastmarine.com/ports>.

For information about C3S and the Climate Data Store, please visit <https://climate.copernicus.eu>.

Achieving net-zero on the UK's Tidal Thames by 2050

The Port of London Authority (PLA) has hosted our 4th annual environment conference 28th January 2020, focusing on achieving net-zero on the Tidal Thames by 2050. The waterway is already considered as a clean air highway and most energy efficient way compared to road transport for transporting freight in the UK. The river traffic is expected to grow, and it is crucial to maintain a safe and clean environment on the river while promoting an increase in river usage. The conference looked at the opportunities and challenges that lie ahead related in four main areas – biodiversity, air, economy, and water quality.

Net gain was the main focus of biodiversity. Challenging suggestions on the way forward to minimize invasive species, restore native species on the river Thames with globalization, and using natural capital accounting to understand the value of natural resources and services to drive management decisions, such as rebuild ecological resilience, restore habitats and saltmarshes, were presented.

For air quality, presenters shared their experiences on some of the recent development and implementation of greener technologies and alternative fuels. A decarbonization technologies roadmap, a guide for fleet operators and green technologies developers to enabling best practices to reduce emission, was also introduced to the audiences. The idea of the roadmap is to join the dots between target, drivers, technologies, timeline, and operational needs.

The audiences were reminded of the need due to the risks relative to climate change and sea-level rise, i.e. flooding. Better contingency plan will be required to ensure investments being protected.

On top of that, with mitigation, businesses must be prepared for the potential change of market's needs with the nation going towards net-zero and be more sustainable. For improving the water quality on the Thames, an update was given on the Tideway Tunnel, nicknamed as the super sewer, new construction to prevent overflow of storm water and diluted sewage into the Thames when it rains. A new tool, the Thames litter map, in the fight against litter was also announced. The interactive map will help to indicate litter hotspots, improves communication between litter picking individual and event organizers, and identify the source of the litter.



Photo courtesy of PLA

A highlight of the conference created by a live graphic recorder to illustrate the essences, energy and key contributions of the day on a 10 feet long paper and the PLA environment team are delighted that the net-zero conference was well attended by a diverse range of delegates, including regulators, lobby groups, members of the public.