About the MKC Current Awareness Bulletin (CAB)

The aim of the MKC Current Awareness Bulletin (CAB) is to provide a digest of news and publications focusing on key subjects and themes related to the work of IMO. Each CAB issue presents headlines from the previous month. For copyright reasons, the Current Awareness Bulletin (CAB) contains brief excerpts only. Links to the complete articles or abstracts on publishers’ sites are included, although access may require payment or subscription.

The MKC Current Awareness Bulletin is disseminated monthly and issues from the current and the past years are free to download from this page.

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IMO NEWS & EVENTS

WHAT’S NEW

Revised GHG reduction strategy for global shipping adopted

Member States of the International Maritime Organization (IMO), meeting at the Marine Environment Protection Committee (MEPC 80), have adopted the 2023 IMO Strategy on Reduction of GHG Emissions from Ships, with enhanced targets to tackle harmful emissions.

The revised IMO GHG Strategy includes an enhanced common ambition to reach net-zero GHG emissions from international shipping close to 2050, a commitment to ensure an uptake of alternative zero and near-zero GHG fuels by 2030, as well as indicative check-points for 2030 and 2040. More...

Hong Kong ship recycling Convention set to enter into force

The Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships (the Hong Kong Convention) is set to enter into force within 24 months, after Bangladesh and Liberia became Contracting States to the Convention.

The Hong Kong Convention is aimed at ensuring that ships, when being recycled after reaching the end of their operational lives, do not pose any unnecessary risks to human health, safety and to the environment. More...

World Maritime University celebrates 40th anniversary

Over four decades, the World Maritime University (WMU) in Malmö, Sweden, has developed into a world centre of excellence in postgraduate maritime and ocean education, research, and professional training.

The University, established by the International Maritime Organization (IMO), counts more than 5,800 alumni from 170 countries and territories. More...

Day of the Seafarer 2023 highlights role in protection of oceans

The urgent need to protect the world’s oceans and the habitats within them is, nowadays, well understood. So, too, is the need for a sustainable shipping industry to ensure the essential transportation of goods and commodities across the globe, and of passengers.

Hundreds of thousands of seafarers bear witness every day to changes in the marine environment due to human activity – including from shipping. Those same seafarers are a key part of the solution through their implementation of vital IMO rules and regulations developed and adopted to care for the oceans and the planet, whilst ensuring the safety of shipping. More...
MEETING SUMMARIES AND SCHEDULE

Previous Meetings

Intersessional Working Group on the Reduction of GHG Emissions from Ships (ISWG-GHG 15) 26-30 June 2023

Marine Environment Protection Committee (MEPC 80) 3-7 July 2023

Forthcoming Meetings

IMO Council (C 129) 17-21 July 2023

Sub-Committee on Implementation of IMO Instruments (III 9) 31 July – 4 August 2023

Programme of Meetings for 2023


**In Briefing on Climate Ambition Summit, Deputy Secretary-General Stresses Still Possible to Limit Rise in Global Temperature if We Take Action.** *United Nations*. 9 June 2023. Available from: [https://press.un.org/en/2023/dsgsm1857.doc.htm](https://press.un.org/en/2023/dsgsm1857.doc.htm). It is a pleasure to be here to brief you on the Secretary-General’s Climate Ambition Summit, which comes at a sobering moment — a moment when almost all our indicators on climate are pointing in the wrong direction.


CASUALTIES

Sapphire Princess Rescues Passengers and Crew from Expedition Ship in Glacier Bay. *Cruise Industry News.* 5 June 2023. Available from: https://cruiseindustrynews.com/cruise-news/2023/06/sapphire-princess-rescues-passengers-and-crew-from-expedition-ship-in-glacier-bay/ At approximately 9 am ship’s time on Monday morning, while en route to Glacier Bay, Alaska, the *Sapphire Princess* was called upon by the US Coast Guard to assist the *Wilderness Discoverer*, which was in the vicinity and disabled following an engine room fire.

NTSB: Cell Phone and Distracted Officers Caused Bulker-OSV Collision. *Maritime Executive.* 6 June 2023. Available from: https://maritime-executive.com/article/ntsb-cell-phone-and-distracted-officers-caused-bulker-osv-collision The use of a personal cell phone by an officer on watch is being cited by the National Transportation Safety Board as the probable cause of a vessel collision that resulted in $12.3 million in damages and endangered the lives of 38 crewmembers aboard a bulk carrier and offshore supply vessel in the Gulf of Mexico.


NTSB Cites Miscommunication and Outdated Chart in $2M Docking Accident. *Maritime Executive.* 13 June 2023. Available from: https://www.maritime-executive.com/article/ntsb-cites-miscommunication-and-outdated-chart-in-2m-docking-accident Overreliance on an electronic chart, miscommunication, and an outdated navigational chart, were all factors according to the National Transportation Safety Board in a 2022 docking accident involving a cruise ship that resulted in $2.1 million in damages and impacted cruise ship traffic in Sitka, Alaska for most of the 2022 cruise season.


Fire Onboard Tanker Berthed at Jurong Port Tank Terminals. *Maritime and Port Authority of Singapore (MPA).* 14 June 2023. Available from: https://www.mpa.gov.sg/media-centre/details/fire-onboard-tanker-berthed-at-jurong-port-tank-terminals The MPA was informed at 0730 hours today that there was a fire onboard a tanker berthed at Jurong Port Tank Terminals.


Exclusive satellite images of wrecked _Pablo_ tanker cast dark light over shadow fleet.
Sam Chambers. _Splash 247.com_. 21 June 2023. Available from: https://splash247.com/exclusive-satellite-images-of-wrecked-pablo-tanker-cast-dark-light-over-shadow-fleet/ Fifty-one days since it exploded in Malaysian waters, killing three crew, the _Pablo_ tanker remains alone, untended, with the authorities at a loss with what to do with the wreck, a sharp warning of the hugely damaging threat posed by the growth of the so-called dark fleet.

A tale of two disasters: Missing _Titanic_ sub captivates the world days after deadly migrant shipwreck. Chantal Da Silva. _NBC News (US)_. 21 June 2023. Available from: https://www.nbcnews.com/news/world/syria-migrants-boat-sinking-titanic-submersive-missing-rcna90336 🦛. As rescuers raced to find a handful of wealthy people and explorers who vanished after launching a mission to survey the _Titanic_, another disaster at sea that’s feared to have left hundreds of people dead has been swept from the spotlight.


TSB launches investigation into a marine occurrence involving the Canadian-flagged vessel _Polar Prince_ and the submersible _Titan_. _Transportation Safety Board of Canada_. 23 June 2023. Available from: https://www.tsb.gc.ca/eng/medias-media/deploiement-deploiementmariname/2023/m23a0169-20230623.html 🦛. The Transportation Safety Board of Canada (TSB) is launching an investigation (M23A0169) into the fatal occurrence involving the Canadian-flagged vessel _Polar Prince_ and the privately operated submersible _Titan_. _Investigation Page_


ENVIRONMENT


Increase ambition to safeguard our oceans - President urges African nations. *Ghana News Agency*. 1 June 2023. Available from: https://gna.org.gh/2023/06/increase-ambition-to-safeguard-our-oceans-president-urges-african-nations/ President Nana Addo Dankwa Akufo-Addo has pressed African nations to increase nationally determined contributions and adaptation plans to safeguard the ocean’s capacity to regenerate.


Guess Who Is the Worst Enemy of the Oceans (And Everywhere Else)? *Inter Press Service (IPS)*. 7 June 2023. Available from: https://www.ipsnews.net/2023/06/guess-worst-enemy-oceans-everywhere-else/ The bad news is that, with 90% of big fish populations depleted, and 50% of coral reefs destroyed, humans are taking more from the ocean than can be replenished.

Climate change and plastics threaten oceans. *Associated Press*. 7 June 2023. Available from: https://www.youtube.com/watch?v=Jl65QkS72q8 The United Nations will celebrate World Oceans Day on 8 June, amid efforts to develop the first international, legally binding treaty on plastic pollution, including in the marine environment.

UNWTO and MSC Foundation look to Net-Zero Future on World Ocean Day. *World Tourism Organization (UNWTO)*. 8 June 2023. Available from: https://www.unwto.org/news/unwto-and-msc-foundation-look-to-net-zero-future-on-world-ocean-day To mark the official naming of the *MSC Euribia* ship, MSC’s most energy-efficient to date, international leaders from the worlds of science, policymaking and business explored new paths to responsible consumption and production in tourism as a key strategy for transitioning to a regenerative, carbon-neutral, and circular blue economy.


ENVIRONMENTAL POLLUTION


 Majority of global maritime industry underestimates the negative impact of biofouling despite latest advice from IMO. Jotun. 6 June 2023. Available from: https://tinyurl.com/2p86bk38 Almost two thirds (59%) of the shipping industry underestimate the negative environmental impacts of biofouling, with as much as 1 in 4 claiming to know little about the issue, a new report by Jotun has found. Clean Shipping Survey


The ocean is not a trash can. New Straits Times (Malaysia). 9 June 2023. Available from: https://www.nst.com.my/opinion/columnists/2023/06/918230/ocean-not-trash-can The oceans absorb 25 per cent of the non-recyclable carbon produced by the industrial sectors and generate 50 per cent of the oxygen for land life, thus controlling the climate as well as providing air and food sources for humans.


Australian sea dumping law changes condemned amid warnings of gas industry expansion. Lisa Cox. The Guardian. 29 June 2023. Available from: https://tinyurl.com/45ahwd2d Proposed changes to Australia’s sea dumping laws that would allow carbon dioxide to be pumped into international waters could be used to justify the expansion of the gas industry, the Greens and environment groups say.
HEALTH & SAFETY

**German shipowners consider sector-wide survey after assault case.** Dag Holmstad. *ShippingWatch.* 19 June 2023. Available from: [https://shippingwatch.com/regulation/article16122627.ece](https://shippingwatch.com/regulation/article16122627.ece) The German Shipowners’ Association has previously denied investigating the scope of harassments, but will now consider doing so following an incident aboard a German vessel.


**Day of the Seafarer Watch: Expert thinking on industry’s crew welfare agenda.** *Safety4Sea.* 22 June 2023. Available from: [https://safety4sea.com/cm-day-of-the-seafarer-watch-expert-thinking-on-industries-crew-welfare-agenda/](https://safety4sea.com/cm-day-of-the-seafarer-watch-expert-thinking-on-industries-crew-welfare-agenda/) On the occasion of this year’s Day of the Seafarer on June 25th, our special column is dedicated to seafarers’ welfare and wellbeing, asking key experts how industry stakeholders can collaborate and support crew welfare with more initiatives, more projects and more tools.

**IMO**

**IMO adopts first-ever resolution condemning N. Korea's missile launches.** *Korea Times (South Korea).* 31 May 2023. Available from: [https://www.koreatimes.co.kr/www/nation/2023/06/103_352109.html](https://www.koreatimes.co.kr/www/nation/2023/06/103_352109.html) The International Maritime Organization (IMO) adopted a resolution strongly condemning North Korea’s missile tests for the first time earlier this week, in a clear message to the reclusive country against its escalating provocations.


**Women in maritime mark their day.** Carlos Salinas. *Manila Times.* 31 May 2023. Available from: [https://www.manilatimes.net/2023/05/31/business/maritime/women-in-maritime-mark-their-day/1893734](https://www.manilatimes.net/2023/05/31/business/maritime/women-in-maritime-mark-their-day/1893734) Last May 18, the International Day for Women in Maritime was celebrated for the second time.

**The Pacific call for an equitable transition for world shipping appears to be building. But is all as it seems?** Peter Nuttall. *Islands Business (Fiji).* 1 June 2023. Available from: [https://islandsbusiness.com/features/the-pacific-call-for-an-equitable-transition-for-world-shipping-appears-to-be-building-but-is-all-as-it-seems/](https://islandsbusiness.com/features/the-pacific-call-for-an-equitable-transition-for-world-shipping-appears-to-be-building-but-is-all-as-it-seems/) It’s been a fantastic week for international support for the Pacific’s high ambition position at the International Maritime Organisation – after many years of this small alliance of Pacific states, nicknamed the ‘6PAC’, seemingly being the lone voice crying in the wilderness for a fully 1.5 aligned agenda.
North Korea raps IMO, says not to issue advance satellite launch notice. Kyodo News (Japan). 4 June 2023. Available from: https://english.kyodonews.net/news/2023/06/655e5a3e2b84-n-korea-raps-imo-says-not-to-issue-advance-satellite-launch-notice.html North Korea rapped Sunday the International Maritime Organization for adopting a resolution criticizing it over its recent attempt to launch a satellite, saying it will no longer give advance notice on such launches, the official Korean Central News Agency said.


The most important climate meeting of the year. Vartan Badalian. GreenBiz. 6 June 2023. Available from: https://www.greenbiz.com/article/most-important-climate-meeting-year The International Maritime Organization aims to adopt a revised greenhouse gas emission strategy for the shipping sector.

EU urges IMO to hurry up and follow its lead in decarbonisation. Bob Rust. TradeWinds. 6 June 2023. Available from: https://www.tradewindsnews.com/regulation/eu-urges-imo-to-hurry-up-and-follow-its-lead-in-decarbonisation/2-1-1462748 The European Commission is urging the International Maritime Organization to “take the ambitious measures we expect it to take”.

IMO marine director calls on carriers to keep up the pace: “Time is against us”. Astrid Sturlason. ShippingWatch. 7 June 2023. Available from: https://shippingwatch.com/regulation/article16002780.ece Carriers ought the lead the way in taking on the green transition instead of waiting on regulators to force them to do so, saysIMO head of marine environment division Arsenio Dominguez.

Shipping and climate: all hands on deck. Simon Bullock. Splash 247.com. 8 June 2023. Available from: https://splash247.com/shipping-and-climate-all-hands-on-deck/ Dr Simon Bullock writes for Splash today, with analysis from researchers at the Tyndall Centre, University of Manchester, on shipping climate targets ahead of the upcoming MEPC80 at the IMO.


Lead negotiator for IMO’s climate meeting says the committee will deliver. Idha Toft Valeur. ShippingWatch. 8 June 2023. Available from: https://shippingwatch.com/regulation/article16023234.ece Sveinung Ofstad, who leads the MEPC negotiations at the IMO, told the audience at Nor-Shipping to count on the IMO and have no doubt that there will be markets for green technologies.

Delaying IMO action will increase decarbonisation costs and risk fragmented regulation, UN warns. Enes Tunagur. Lloyd’s List. 12 June 2023. Available from: https://lloydslist.maritimeintelligence.informa.com/LL1145422/ Delaying action by the IMO will generate more costs for shipping’s decarbonisation and it could also lead to the emergence of different tiers of overlapping regional regulations, according to the UN Conference on Trade and Development.


IMO reviewing measures to respond to Japan’s Fukushima water release: agency chief. Korea Times (South Korea). 14 June 2023. Available from: https://www.koreatimes.co.kr/www/nation/2023/06/119_352973.html The U.N. maritime safety agency is reviewing measures to respond to Japan’s planned release of contaminated water from the Fukushima nuclear power plant, though further discussions are needed to decide whether to deal with the issue within the London Convention and Protocol framework.

Pacific nations driving momentum at IMO to clean up international shipping. Caleb Fotheringham. Radio New Zealand. 14 June 2023. Available from: https://www.rnz.co.nz/international/pacific-news/491981/ The global regulator for international shipping is expected to agree to completely decarbonise the industry by mid-century to avoid dangerous climate change.


Zeronorth CEO “almost provoked” by recent IMO statement. Astrid Sturlason. ShippingWatch. 14 June 2023. Available from: https://shippingwatch.com/regulation/article16084887.ece There can be no doubt as to which direction carriers have to move in the green energy transition – and any such doubts can only be eliminated through a common global regulatory framework.

We can achieve a bold, ambitious climate strategy, says IMO secretary-general. Richard Meade. Lloyd’s List. 14 June 2023. Available from: https://lloydslist.maritimeintelligence.informa.com/LL1145444/ The shipping industry is about to get the regulatory certainty it needs to rapidly invest in a zero-carbon future, according to the International Maritime Organization secretary-general Kitack Lim.

Give a clear direction to decarbonise or fail, Ardmore CEO warns regulators. Paul Peachey. Trade Winds. 16 June 2023. Available from: https://www.tradewindsnews.com/tankers/give-a-clear-direction-to-decarbonise-or-fail-ardmore-ceo-warns-regulators/2.1-1468578 The long-term process to decarbonise the global shipping industry is being delayed by the failure of regulators to set out a clear route to hitting key targets, warned Ardmore chief executive Anthony Gurnee.
UN climate deal for shipping will fail without ambitious 2030 goal. *Clean Shipping Coalition* 19 June 2023. Available from: [https://cleanshipping.org/news/un-climate-deal-for-shipping-will-fail-without-ambitious-2030-goal/](https://cleanshipping.org/news/un-climate-deal-for-shipping-will-fail-without-ambitious-2030-goal/) The IMO agreement on shipping climate targets expected next month could be the starting gun for the radical climate action our planet desperately needs.


Shipping urged to act on climate priorities as UN formally adopts Ocean Treaty. Christine Rovoi. *Stuff (New Zealand)*. 21 June 2023. Available from: [https://www.stuff.co.nz/pou-tiaki/132379458](https://www.stuff.co.nz/pou-tiaki/132379458) With less than two weeks to go before the International Maritime Organization adopts a revised strategy for reducing greenhouse gas emissions from shipping, the industry’s climate negotiators have been told it is still possible to translate aspiration into action.


The Tipping Point for Decarbonizing International Shipping. Katrina Abhold and Alison Shaw. *Global Maritime Forum*. 22 June 2023. Available from: [https://www.globalmaritimeforum.org/news/the-tipping-point-for-decarbonizing-international-shipping](https://www.globalmaritimeforum.org/news/the-tipping-point-for-decarbonizing-international-shipping) In less than two weeks, country delegates from around the world will come together for the 80th meeting of the Marine Environmental Protection Committee (MEPC 80) to revise the IMO’s initial Greenhouse Gas Strategy (GHG). *Insight Brief*.


Opinion: IMO must raise climate ambitions to net zero in 2050. Simon Bennett. *ShippingWatch*. 23 June 2023. Available from: [https://shippingwatch.com/carriers/Container/article16142753.ece](https://shippingwatch.com/carriers/Container/article16142753.ece) The industry needs governments to take action at IMO if we are to have a serious chance of meeting mission targets, writes ICS.


**The success of IMO’s new emission-reduction strategy hinges on a well-to-wake approach.** *Lloyd’s List*. 26 June 2023. Available from: [https://lloydslist.maritimeintelligence.informa.com/LL1145614/](https://lloydslist.maritimeintelligence.informa.com/LL1145614/) For the shipping sector to contribute to the goals of the Paris Agreement, the IMO must adopt a well-to-wake approach to fuel greenhouse gas emissions.

**Regulation: All eyes on the IMO’s greenhouse gas strategy.** Enes Tunagur. *Lloyd’s List*. 26 June 2023. Available from: [https://lloydslist.maritimeintelligence.informa.com/LL1145533/](https://lloydslist.maritimeintelligence.informa.com/LL1145533/) The most important development in the regulatory space in 2023 will be the International Maritime Organization’s key Marine Environment Protection Committee meeting, MEPC80, from July 3-7.

**Analysis: IMO will embark on its most important task ever at next week’s meeting.** Tomas Kristiansen. *ShippingWatch*. 27 June 2023. Available from: [https://shippingwatch.com/regulation/article16156297.ece](https://shippingwatch.com/regulation/article16156297.ece) The outcome of the upcoming climate summit will shape the most important agenda in decades – shipping’s CO2 emissions ahead of 2050.
IMO’s GHG strategy: Is the gap between reality and aspiration closing? Enes Tunagur. Lloyd’s List. 27 June 2023. Available from: [🔗](https://lloydslist.maritimeintelligence.informa.com/LL1145639/) Protesters outside the IMO this week have highlighted the growing gap between expectation and reality, as governments prepare to show their final negotiating positions and agree revised decarbonisation targets for shipping next week.


Green Seas: As IMO hurtles towards a historic vote on carbon targets, next steps draw disagreement. Eric Priante Martin. TradeWinds. 28 June 2023. Available from: [🔗](https://www.tradewindsnews.com/esg/green-seas-as-imo-hurries-towards-a-historic-vote-on-carbon-targets-next-steps-draw-disagreement/2-1-1475816) The International Maritime Organization is gearing up for historic decisions next week that could see the UN shipping regulator adopt a zero-carbon or net zero emissions target.


Five days will determine 25 years of climate efforts. Lloyd’s List. 28 June 2023. Available from: [🔗](https://lloydslist.maritimeintelligence.informa.com/LL1145660/) The IMO will be at the epicentre of intense political and technical negotiations that will define its role in climate history.


The negotiations for shipping’s new climate targets are gridlocked. Tomas Kristiansen. ShippingWatch. 29 June 2023. Available from: [🔗](https://shippingwatch.com/regulation/article16212851.ece) Ahead of next week’s vital meeting of the IMO’s climate committee, there is, according to several participants, far from agreement on when shipping’s emissions should go to zero.


IMO hit with scathing criticism ahead of crucial meeting. Niklas Krigslund. ShippingWatch. 29 June 2023. Available from: [🔗](https://shippingwatch.com/regulation/article16214021.ece) Two researchers have come out with a sharp criticism of the UN’s maritime organization, IMO, which is under great pressure to raise the climate ambitions for shipping.
INTERCARGO statement: IMO’s mid-term decarbonisation measures should be simple and effective. International Association of Dry Cargo Shipowners (INTERCARGO). 30 June 2023. Available from: https://www.intercargo.org/intercargo-statement-imos-mid-term-decarbonisation-measures/ As the industry gears up for next week’s much anticipated MEPC 80 (Marine Environment Protect Committee) meeting, INTERCARGO Secretary General Kostas Gkonis has reiterated the importance that mid-term measures to help the IMO’s decarbonisation ambitions should be both simple and effective, so as to be efficiently implemented by ships worldwide.

**LAW & POLICY**

Norway takes control of the Arctic Council at an especially troubled time. Bellona Foundation. 30 May 2023. Available from: https://bellona.org/news/arctic/2023-05-norway-takes-control-of-the-arctic-council-at-an-especially-troubled-time Norway’s chairmanship of the Arctic Council will be one of the most difficult in the entire existence of this international body.

Celeste Saulo of Argentina appointed first female Secretary-General of WMO. World Meteorological Organization (WMO). 1 June 2023. Available from: https://public.wmo.int/en/media/press-release/celeste-saulo-of-argentina-appointed-first-female-secretary-general-of-wmo Prof. Celeste Saulo of Argentina has been appointed as the first female Secretary-General of the World Meteorological Organization (WMO), taking the helm of an organization at the fore of international efforts to monitor and tackle climate change and increasingly extreme weather.


World Bank’s new chief asks staff to ‘double down’ on development, climate efforts. David Lawder. Reuters. 2 June 2023. Available from: https://www.reuters.com/world/world-banks-new-chief-asks-staff-double-down-development-climate-efforts-2023-06-02/ The World Bank’s new president Ajay Banga on Friday asked the lender’s 16,000 staff to “double down” on development and climate efforts as he seeks to accelerate the bank’s evolution to tackle the most pressing global problems.

Landlocked Switzerland charts new maritime course. SWI Swissinfo. 2 June 2023. Available from: https://www.swissinfo.ch/eng/politics/landlocked-switzerland-charts-new-maritime-course/48561856 On Friday, the government set out a new Maritime Strategy 2023-2027 for the landlocked country that will focus on six thematic reforms.


COP28: Little optimism as climate talks start in Bonn. *Deutsche Welle (Germany)*. 5 June 2023. Available from: [https://www.dw.com/en/bonn-climate-conference/a-65822759](https://www.dw.com/en/bonn-climate-conference/a-65822759) Diplomats from around the globe will meet in the German city of Bonn this week to hash out plans that are key to global efforts to stop the planet heating and adapt to violent weather.


UAE to tighten insurance cover for ships flying its flag. *Reuters*. Jonathan Saul. 6 June 2023. Available from: [https://www.reuters.com/world/middle-east/uae-tighten-insurance-cover-ships-flying-its-flag-2023-06-06/](https://www.reuters.com/world/middle-east/uae-tighten-insurance-cover-ships-flying-its-flag-2023-06-06/) The United Arab Emirates is tightening insurance requirements for vessels registered under its flag, according to a government advisory, amid growing concerns over ships sailing without top tier cover in the event of an oil spill.

Coast Guard highlights women in maritime law. *Manila Times*. Yashika F. Torib. 7 June 2023. Available from: [https://www.manilatimes.net/2023/06/07/business/maritime/coast-guard-highlights-women-in-maritime-law/1894785](https://www.manilatimes.net/2023/06/07/business/maritime/coast-guard-highlights-women-in-maritime-law/1894785) Women serving in maritime law enforcement were recognized and honoured by the joint forces of the Philippine Coast Guard (PCG), United States Coast Guard (USCG) and Japan Coast Guard (JCG) as part of its weeklong Kaagapahy Trilateral Exercise 2023.

Chamber gives evidence on Arctic to Parliamentary Inquiry. *UK Chamber of Shipping.* 7 June 2023. Available from: https://www.ukchamberofshipping.com/news/chamber-gives-evidence-arctic-parliamentary-inquiry  Appearing before the Committee alongside the Danish Chamber of Shipping, Elise highlighted the opportunities arctic shipping presents, including new shipping routes and markets such as arctic tourism.


ASEAN discusses maritime protection. *VietnamPlus.* 8 June 2023. Available from: https://en.vietnamplus.vn/asean-discusses-maritime-protection/254353.vnp  The Indonesian Maritime Security Agency (Bakamla) is chairing the 2023 ASEAN Coast Guard Forum in Jakarta from June 6-9 to discuss cooperation in protecting waters from various threats, including illegal fishing.

COP28 must focus on oil and gas phase-out, not distractions like CCS. *Climate Action Tracker.* 8 June 2023. Available from: https://climateactiontracker.org/press/COP28-must-focus-on-oil-and-gas-phase-out-not-distractions-like-CCS/  An immediate halt to new oil and gas investments and a phase-out of production should be the focus of the COP28 climate summit this year, as the sector is acting like there’s a goldrush, not a climate crisis, the Climate Action Tracker warned today.


African Development Bank Group, Government of Tanzania launch $54 million initiative to drive job creation for youth in Zanzibar’s blue economy. African Development Bank. 9 June 2023. Available from: https://tinyurl.com/ytdbrz6u This is a project that will enable Zanzibari youth to find well-paying maritime and other blue economy jobs.


Russia still dissatisfied with Black Sea grain deal after UN talks. Reuters. 10 June 2023. Available from: https://www.reuters.com/markets/commodities/russia-says-still-not-satisfied-with-black-sea-grain-deal-after-un-talks-2023-06-10/ Russia is still not satisfied with how a Black Sea grain deal is being implemented, Deputy Foreign Minister Sergei Vershinin said on Saturday after meeting senior U.N. trade officials a day earlier, the TASS news agency reported.

UN working ‘day and night’ to boost Black Sea grain exports, says Abdullah Dashti. Paul Peachey. Tradewinds. 12 June 2023. Available from: https://www.tradewindsnews.com/people/un-working-day-and-night-to-boost-black-sea-grain-exports-says-abdullah-dashti/2-1-1466032 Talks are continuing with Russia to increase grain shipments from Ukraine’s Black Sea ports despite Moscow’s warnings that damage to a key ammonia pipeline jeopardises the longer-term success of the deal, the head of the operation said on Monday.


UN chief concerned Russia will quit Black Sea grain deal in July. Michelle Nichols. Reuters. 12 June 2023. Available from: https://www.reuters.com/world/europe/un-chief-concerned-russia-will-quit-black-sea-grain-deal-july-2023-06-12/ United Nations Secretary-General Antonio Guterres said on Monday he is concerned that Russia will on July 17 quit a deal allowing the safe wartime export of grain and fertilizers from three Ukrainian Black Sea ports.

Putin says Russia thinking of ditching grain deal due to West’s ‘cheating’. Guy Faulconbridge. Reuters. 13 June 2023. Available from: https://www.reuters.com/world/europe/putin-says-russia-considering-withdrawal-grain-deal-2023-06-13/ President Vladimir Putin said on Tuesday that Russia was considering withdrawing from the Black Sea grain deal because the West had cheated Moscow by implementing none of the promises to get Russian agricultural goods to world markets.
Chief Engineer Convicted for Obstruction of Justice and Oil Record Book Offenses; Operating Company Pleads Guilty to Oil Record Book Offense. US Department of Justice. 13 June 2023. Available from: https://www.justice.gov/usao-sdca/pr/chief-engineer-convicted-obstruction-justice-and-oil-record-book-offenses-operating Vessel Chief Engineer Denys Korotkiy was convicted by a federal jury of conspiracy to obstruct justice, obstruction of justice, and failure to maintain an accurate oil record book for the vessel Donald following a five-day jury trial in San Diego.

Ocean Economy: Stakeholders highlight challenges, prospects, opportunities for women. Ebunoluwa Sessou. Vanguard (Nigeria). 13 June 2023. Available from: https://www.vanguardngr.com/2023/06/ocean-economy-stakeholders-highlight-challenges-prospects-opportunities-for-women/ Nigeria’s ocean economy remains one of the country’s anchor sub-sectors, with maritime trade contributing 1.6 per cent and fisheries contributing 3-5% to the GDP.

Helsinki Antarctic meeting culminates in agreement on climate declaration. Government of Finland. 14 June 2023. Available from: https://tinyurl.com/bddn3txr The Marina Congress Centre in Katajanokka provided an excellent maritime venue for reflections on supporting Antarctica and protecting its marine environment amid the rapid changes caused by climate change.

Transport Committee challenges disappointing Govt response to Fuelling the Future report. UK Parliament. 15 June 2023. Available from: https://committees.parliament.uk/committee/153/transport-committee/news/195749/ The Transport Committee has written to the Transport Secretary, following a “disappointing” response to its Fuelling the Future report, urging ministers to put “more meat on the bone”.


Commonwealth experts call for improved opportunities for women in ocean sector. The Commonwealth. 15 June 2023. Available from: https://thecommonwealth.org/news/commonwealth-experts-call-improved-opportunities-women-ocean-sector Ocean scientists and advocates have underscored the vital role of women in ocean-related sectors and the blue economy, calling for intensified efforts to achieve gender parity in these areas across the Commonwealth.

Should we drill for new oil and gas? | The Climate Show with Tom Heap. Sky News. 16 June 2023. Available from: https://www.youtube.com/watch?v=9R8cPK0G4f0&t=29s&ab_channel=SkyNews As the argument over whether to drill for new oil and gas rages, Tom Heap hears how the Supreme Court may have a big say.


Another Mediterranean migrant rescue ship detained in Italy. InfoMigrants. 16 June 2023. Available from: https://www.infomigrants.net/en/post/49725/another-mediterranean-migrant-rescue-ship-detained-in-italy Italian authorities have seized the German rescue ship Aurora, saying the crew broke new rules that call for sea rescuers to go immediately to the port assigned to them after an operation.


EU agrees new measure targeting Russian sanctions evaders. Richard Meade. *Lloyd’s List.* 21 June 2023. Available from: [https://lloydslist.maritimeintelligence.informa.com/LL1145554/](https://lloydslist.maritimeintelligence.informa.com/LL1145554/) European Union member states agreed an 11th package of sanctions on Wednesday confirming plans to ban access to EU ports for ships which engage in ship-to-ship transfers if there is cause to suspect the cargo was of Russian origin.


Canadian Green Shipping Corridors Preliminary Assessment. *Arup International Projects Limited.* 19 June 2023. Available from: [https://tinyurl.com/bddm43](https://tinyurl.com/bddm43) Commercial shipping activity in Canada has been estimated to contribute approximately $30 billion to the Canadian economy annually.


If Governments Have the Tools to Stop Fishing-Related Deaths, Why Aren’t They Being Used? Peter Horn. Inter Press Service (IPS). 23 June 2023. Available from: https://www.ipsnews.net/2023/06/governments-tools-stop-fishing-related-deaths-arent-used/. Long before Hollywood highlighted the dangers of commercial fishing in The Perfect Storm, Deadliest Catch and other programming, governments around the world knew that this was one of the most hazardous jobs, killing thousands of fishers every year.


Cost-of-living crunch is not over so we’re pushing to keep grain, fertilizer accord alive: UNCTAD. UN News. 29 June 2023. Available from: https://news.un.org/en/audio/2023/06/1138187. The cost-of-living crisis continues to affect the world’s poorest families, which is all the more reason to redouble efforts to push for grain and fertilizer to leave key Black Sea ports, top UN economist Rebeca Grynspan said on Tuesday.
**MARINE TECHNOLOGY**


German shipowners: Availability of green fuel is key to realizing shipping’s climate target. Jens Thomsen. *ShippingWatch*. 6 June 2023. Available from: https://shippingwatch.com/regulation/article15994905.ece Necessary technologies and shipping’s willingness to adapt to a green future are already present, but the large-scale production of green fuels is missing, says the German shipowners’ association.


China makes breakthroughs in unmanned ship technologies. Global Times (China). 26 June 2023. Available from: https://www.globaltimes.cn/page/202306/1293216.shtml China has made significant breakthroughs in the development of unmanned ships, as drone vessels are now not only undergoing testing but also seeing practical deployment, the country’s national broadcaster said in a recent report, with experts saying on Monday that China is in the first tier in unmanned ship technologies.


MARITIME EDUCATION & TRAINING

Challenges facing shipping’s ‘green transition’ and the training of seafarers. David Hughes. *Business Times (Singapore)*. 30 May 2023. Available from: https://www.businesstimes.com.sg/companies-markets/challenges-facing-shippings-green-transition-and-training-seafarers A couple of weeks ago, the Philippines’ Maritime Industry Authority (Marina) hosted a conference aimed at showcasing “the steady progress by key seafarer home nations in Asia, such as the Philippines and Indonesia, to equip their maritime workers with the skill sets needed to deliver a low and zero-carbon maritime sector”.

Ghana must tap into seafarers training and exportation - Maritime Lecturer. Laudia Sawer. *Ghana News Agency*. 31 May 2023. Available from: https://gna.org.gh/2023/05/ghana-must-tap-into-seafarers-training-and-exportation-maritime-lecturer/ Captain William Amanhyia, a Master Mariner and Lecturer at the Regional Maritime University (RMU), Ghana, has said the nation must invest in training more seafarers to tap into the global opportunity for about 800,000 seafarers to man new generational ships.

Shipping can be greener, safer and more efficient if technological change is worker-led. *International Transport Workers’ Federation (ITF)*. 31 May 2023. Available from: https://www.itfglobal.org/en/news/shipping-can-be-greener-safer-and-more-efficient-if-technological-change-worker-led Seafarers see the prospect of autonomous ships as an opportunity to solve a number of problems in commercial shipping but warn that crew expertise is central to decision-making in a time of technological change, and to make change effective companies and governments need to ensure the technology is transparent and reliable. The Mass Human Element – Collating Seafarers’ Voices: Perspectives and Expectations


Digitalization increases the need for talent at shipping companies. Lars Jensen. *ShippingWatch*. 2 June 2023. Available from: https://shippingwatch.com/carriers/Container/article15964600.ece As the sector is rapidly digitalizing, it is easy to fall into the trap of believing this automatically means a lower reliance on people.


Seafarers see the prospect of autonomous ships as an opportunity to solve a number of problems in commercial shipping, but warn that crew expertise is central to making change effective, according to a new report.


The first National Maritime Conference held in 2015 revealed the full potential of the blue economy sector in the country, with the Kenya Maritime Authority estimating the annual output in the Kenyan part of the Indian Ocean alone at Sh440 billion.


The Director General of the Nigerian Maritime Administration and Safety Agency, NIMASA, Dr. Bashir Jamoh, OFR, has restated the Agency’s commitment to issuing appropriate certification to qualified men of the Nigerian Navy who undergo requisite trainings at the Nigerian Naval Training Command, NAVTRAC.


The UK will fund virtual reality training for Ukrainian seafarers, as part of package to help the country recover from the Russian invasion, according to the Department for Transport.


In light of International Day of the Seafarer 2023, we took the opportunity to speak with two of our seafarers, serving as veteran and recent recruit, on how the maritime revolution has evolved the modern seafarer.


President Ferdinand R. Marcos Jr. on Monday urged the country’s maritime industry to adapt new technologies and secure emerging opportunities for Filipino seafarers.


On 29 June, Professor Maximo Q. Mejia, Jr. assumed office as the eighth President of the World Maritime University (WMU).
**MARITIME SAFETY**


S. Korea voices regret over N. Korea's threat to forgo prior notice for future satellite launch. *Yonhap News Agency (South Korea).* 5 June 2023. Available from: [https://en.yna.co.kr/view/AEN20230605003500325](https://en.yna.co.kr/view/AEN20230605003500325) South Korea on Monday expressed regret over the North's threat to forgo prior notice to an international maritime safety agency when launching its purported military spy satellite in the future.


**MARITIME SECURITY**


GMA committed to ensure maritime security within Ghana’s waters. *Ghana News Agency*. 7 June 2023. Available from: [https://gna.org.gh/2023/06/gma-committed-to-ensure-maritime-security-within-ghanas-waters/](https://gna.org.gh/2023/06/gma-committed-to-ensure-maritime-security-within-ghanas-waters/)  The Ghana Maritime Authority (GMA) has given assurance that it is committed to ensuring that Ghana’s waters were safe and secured for vessels and others using the maritime domain.


Japan to stay on high alert over possible N. Korea projectile launch. *The Mainichi (Japan)*. 12 June 2023. Available from: [https://mainichi.jp/english/articles/20230612/p2g/00m/0na/025000c](https://mainichi.jp/english/articles/20230612/p2g/00m/0na/025000c)  Japan’s top government spokesman said Monday the nation will remain vigilant for any projectile fired by North Korea, with the comments coming after the expiration of a window designated by Pyongyang to launch a satellite-carrying rocket.


**MIGRANTS**

**Mediterranean: More Arrivals to Italy and More Deaths at Sea as Tunisia Grows Increasingly Dangerous for Migrants, Malta Continues Non-response Tactics and Facilitation of Returns to Libya.** *European Council on Refugees and Exiles (ECRE)*. 2 June 2023. Available from: [https://tinyurl.com/j7sestfw](https://tinyurl.com/j7sestfw) Italy has seen a significant increase in arrivals over the first part of 2023 compared to last year and deaths on the central Mediterranean route have also increased.

At least 79 dead after overcrowded migrant vessel sinks off Greece; hundreds may be missing. Derek Gatopoulos and Nicholas Paphitis. Associated Press. 14 June 2023. Available from: https://apnews.com/article/greece-italy-libya-migration-368f1bfdfbb7c0ad977774bda9c77195

A fishing boat crammed to the gunwales with migrants trying to reach Europe capsized and sank Wednesday off the coast of Greece, authorities said, leaving at least 79 dead and many more missing in one of the worst disasters of its kind this year.


UN chief voices horror as scores die in migrant shipwreck off Greek coast. UN News. 14 June 2023. Available from: https://news.un.org/en/story/2023/06/1137712 Latest news reports said the bodies of at least 79 men, women and children had been recovered, with hundreds more potentially dead or missing.

Greece scours shipwreck site; hundreds feared drowned in boat’s hold. Lefteris Papadimas and Stamos Prousalis. Reuters. 16 June 2023. Available from: https://www.reuters.com/world/europe/greece-hunts-survivors-migrant-shipwreck-least-78-dead-2023-06-15/ Rescuers scoured the seas off Greece on Thursday following a shipwreck that killed at least 78 migrants, as hopes of survivors dwindled and fears grew that hundreds more, including children, may have drowned inside the crowded vessel’s hold.


Child found dead after dinghy sinks off coast of Africa, more than 30 still missing. InfoMigrants. 22 June 2023. Available from: https://www.infomigrants.net/en/post/49850/child-found-dead-after-dinghy-sinks-off-coast-of-africa-more-than-30-still-missing Dozens of people are feared to have died after small boat that may have been carrying more than 60 migrants sank off Morocco.


Migrant smugglers: Who are they? Jennifer Holleis. Deutsche Welle (Germany). 29 June 2023. Available from: https://www.dw.com/en/migrant-smugglers-who-are-they/a-66069532 Europol, the EU agency for law enforcement, has estimated that 90% of those who cross the EU’s external borders illegally do so with the assistance of migrant smugglers, either for the whole journey or for part of it.
NAVIGATION & COMMUNICATIONS


Singapore Sees Record Clampdown on Oil Ships as Dark Fleet Grows. Alex Longley. Bloomberg. 31 May 2023. Available from: https://www.bnnbloomberg.ca/singapore-sees-record-clampdown-on-oil-ships-as-dark-fleet-grows-1.1926836 Singapore’s detentions of oil and chemicals tankers have surged since early last year, highlighting growing concerns over the environmental and safety impact of an expanding fleet of aging vessels plying major shipping lanes.


Foggy future for Arctic shipping as sea ice melts. Kate Ravilious. The Guardian. 1 June 2023. Available from: https://www.theguardian.com/news/2023/jun/01/foggy-future-arctic-shipping-sea-ice-melts-global-warming-travel Rapid warming in the Arctic has opened up faster shipping channels through the fabled Northwest Passage in recent decades, but a study reveals that the reduction in ice is likely to lead to increased levels of fog, potentially removing the benefits of these high-latitude short cuts.


**PIRACY**


PORT STATE CONTROL


PORTS & HARBOURS

West Coast port labor issues persist from Los Angeles to Seattle, with supply chain frustration mounting. Lori Ann LaRocco. CNBC (US). 5 June 2023. Available from: https://www.cnbc.com/2023/06/05/west-coast-port-labor-issues-persist-trucks-turned-away-workers-booted.html Just hours after the reopening of the West Coast ports on Monday after multiple closures that began at the Port of Oakland last Friday when some union workers refused to report for assignments, issues remain at select terminals within ports from Los Angeles to Seattle, with labor slowdowns and shift closures.

Ports in China’s oil hub Shandong scrutinizing old tankers. Muyu Xu. Reuters. 6 June 2023. Available from: https://www.reuters.com/markets/asia/ports-chinas-oil-hub-shandong-scrutinizing-old-tankers-sources-2023-06-05/ Ports in China’s Shandong province are demanding more detailed information about oil tankers that are more than 15 years old that call at their terminals, sources with knowledge of the matter said, potentially delaying the unloading of crude shipments in the world’s biggest oil importer.

Panama Canal prepares for the impact of climate events. American Journal of Transportation. 6 June 2023. Available from: https://www.ajot.com/news/panama-canal-prepares-for-the-impact-of-climate-events In response, the canal will proceed with water saving measures during the rainy months to aid water recovery throughout the surrounding lakes and, thus, guarantee resources for human consumption without affecting transits.


Southampton suffering some of the worst cruise ship pollution in Europe – study. Transport & Environment. 15 June 2023. Available from: https://www.transportenvironment.org/discover/southampton-suffering-some-of-the-worst-cruise-ship-pollution-in-europe-study/ Cruise ship pollution in Southampton is back to pre-pandemic levels in stark contrast to Venice who implemented a ban in 2021 and has seen harmful pollutants fall 80%.

Black Sea Grain Initiative exports up 65% since last week, but few ships are entering ports. Hellenic Shipping News. 15 June 2023. Available from: https://www.hellenicshippingnews.com/black-sea-grain-initiative-exports-up-65-since-last-week-but-few-ships-are-entering-ports/ Last week, between 5 and 11 June, the volume of agricultural products exported via the Black Sea Grain Initiative increased to 651,000 tonnes, up 65% from a week ago.

Tentative Labor Agreement for U.S. West Coast Ports. Maritime Executive. 15 June 2023. Available from: https://maritime-executive.com/article/tentative-labor-agreement-for-u-s-west-coast-ports The Pacific Maritime Association and the International Longshore and Warehouse Union announced late on Wednesday, June 14, that a tentative agreement has been reached a year after the prior labor contract expired and after weeks of sporadic labor shortages that were causing disruptions and delays at the U.S. West Coast ports.

Europe’s biggest port wants clear green signal from carriers. Peter Thomsen. ShippingWatch. 15 June 2023. Available from: https://shippingwatch.com/Ports/article16088546.ece If the shipping industry is to follow the path towards sustainability, there is a need for commitments and unambiguous demand signals from the sector, says Europe’s largest port, the Port of Rotterdam.


Cruising to Nome: The first U.S. deep water port for the Arctic to host cruise ships, military. Mark Thiessen. Associated Press. 18 June 2023. Available from: https://apnews.com/article/alaska-arctic-port-nome-china-russia-588201b311513709404344fbc0d0e913 The cruise ship with about 1,000 passengers anchored off Nome, too big to squeeze into the tundra city’s tiny port.

The Board of Directors of the African Development Bank has approved a $23.04 million loan to Prime Meridian Docks AssetCo Ltd (PMD), a special purpose entity to co-finance the construction of a modern floating dock ship repair facility in Ghana’s western Takoradi port.


Methanol is emerging as a potential alternative bunkering fuel for shipping.

The Panama Canal will postpone depth restrictions that were set to affect the largest ships crossing the key waterway, the canal authority said, after much-needed rain provided relief to the strained maritime passage.

New sanctions give increased authority to ban ships from calling at EU ports. Peter Thomsen. *ShippingWatch*. 26 June 2023. Available from: [https://shippingwatch.com/regulation/article16148258.ece](https://shippingwatch.com/regulation/article16148258.ece)

Following challenges with ship-to-ship transfers of oil with ties to Russia, the EU now tightens its sanctions on the area.


Ukraine must be ready to export grain almost exclusively via its Danube River ports because Russia is effectively blocking Black Sea shipments, the Ukrainian Sea Ports Authority said on Tuesday.


A pilot project aims to reduce the number of commercial ships anchoring in the Southern Gulf Islands following years of concern from residents about an increase in freighters because of congestion at Vancouver’s port.


This will increase RWG’s capacity by 1.8 million TEU (standard size for containers) in a phased manner.


Port of Antwerp-Bruges is taking traffic management to the next level with the launch of an extensive digital radar and camera network.
Ports of Los Angeles and Nagoya sign Agreement to expand cooperation. Port of Los Angeles. 29 June 2023. Available from: https://www.portoflosangeles.org/news/releases/news_062923_nagoya_mou. Officials from the ports of Los Angeles and Nagoya, Japan, have signed a new MOU to broaden cooperation on key sustainability and operational efficiency initiatives, including port community systems and digital supply chain information sharing, zero-emission vehicle and equipment testing, and a new Green Shipping Corridor between the two ports.

Russia uses South Korea port for ship-to-ship transfers of oil trading above price cap. Michelle Wiese Bockmann and Cichen Shen. Lloyd’s List. 29 June 2023. Available from: https://lloydslist.maritimeintelligence.informa.com/LL1145672/. The South Korean port of Yeosu has emerged as the busiest ship-to-ship transfer hub for Russian-owned tankers loading non price cap-compliant crude from the federation’s Pacific ports of Kozmino and De-Kastri oil terminal.

REGULATIONS


EU sharpens demands for shipping’s CO2 emissions ahead of decisive IMO meeting. Tomas Kristiansen. ShippingWatch. 1 June 2023. Available from: https://shippingwatch.com/regulation/article15941823.ece. The EU nations propose new intermediate targets for the shipping industry’s climate plan towards 2050, including an aim to have 10 percent of fuels coming from sustainable sources in 2030.

Don’t regulate shipping in isolation warns INTERCARGO as members meet in Dubai. International Association of Dry Cargo Shipowners (INTERCARGO). 2 June 2023. Available from: https://www.intercargo.org/wp-content/uploads/2023/06/Dont-regulate-shipping-in-isolation-warns-INTERCARGO.pdf. Shipping is so global, that only a truly global regulator such as the IMO can provide the level playing field needed for this diverse industry and all the nations it serves.

EU proposes maritime safety rules revamp. Enes Tunagur. Lloyd’s List. 2 June 2023. Available from: https://lloydslist.maritimeintelligence.informa.com/LL1145290/. The European Commission has proposed a revamp of maritime safety regulations, which aim to support clean and modern shipping and align the bloc’s legislation with international bodies.

Swedish scrubber discharge study makes case for stricter regulations. Sam Chambers. Splash 247.com. 13 June 2023. Available from: https://splash247.com/swedish-scrubber-discharge-study-makes-case-for-stricter-regulations/. Some 42 months after the global sulphur cap became law, researchers continue to uncover the enormous damage scrubbers are doing to the world’s oceans.

Cost of regulatory compliance lower with LNG. SEA-LNG. 15 June 2023. Available from: https://sea-lng.org/2023/06/alternative-fuels-and-the-cost-of-compliance/. In the growing excitement about the role that alternative marine fuels can play in decarbonising the shipping industry, little attention appears to be paid to the actual pathway to zero emissions and the potential costs of compliance with emerging regulations.

With the implosion of the submersible *Titan* as it dived down to the wreck of the *Titanic* this week, killing all five people aboard, experts say there may be a new push for rules governing new high end, big dollar tourism of the kind being practiced by OceanGate Expeditions, the company that ran the *Titan*.

**Tourist sub’s implosion draws attention to murky regulations of deep-sea expeditions.**


When the *Titan* submersible made its fateful dive into the North Atlantic on Sunday, it also plunged into the murkyly regulated waters of deep-sea exploration.

**Minister of Transport announces mandatory environmental measures for cruise ships.**


Even though cruise ships are important to our domestic tourism sector, representing more than $4 billion annual input into the Canadian economy and directly and indirectly generating approximately 30,000 middle-class jobs per year, we need to ensure they are doing so in a more sustainable manner moving forward.


The federal government says some new cruise ship pollution measures are now mandatory, but environmental groups say the move still doesn’t plug gaps that permit the ongoing contamination of some of Canada’s most sensitive coastlines.

**SEA-LNG Coalition calls on IMO to regulate all GHG Emissions on a Full Lifecycle Basis.**

SALVAGE


FSO Safer saga enters endgame with launch of UN-coordinated oil-removal operation. Arab News (Saudi Arabia). 2 June 2023. Available from: https://www.arabnews.com/node/2315286/middle-east Unless there are complications, the transfer of crude from the FSO Safer, an oil-storage vessel stricken off Yemen’s Red Sea coast, will be complete within 10 to 14 days, David Gressly, the UN resident coordinator for Yemen, told Arab News.

UN salvage mission aims to avert massive oil spill from abandoned tanker. Deutsche Welle (Germany). 8 June 2023. Available from: https://www.youtube.com/watch?v=sp14VLlgPKw The UN is preparing to drain over a million barrels of oil from a rusting tanker off the Yemeni coast.

UN plan ‘progressing well’ to remove oil from decaying tanker. Paul Peachey. TradeWinds. 9 June 2023. Available from: https://www.tradewindsnews.com/tankers/un-plan-progressing-well-to-remove-oil-from-decaying-tanker/2-1-1464799 Preparations to transfer more than 1.1m barrels of oil from a decaying tanker off the Yemen coast are progressing well, says the Dutch salvage team behind the operation.


Antrim firm working with UN to avert potential oil disaster in Red Sea. Ryan McAleer. Irish News. 13 June 2023. Available from: https://www.irishnews.com/business/2023/06/13/news/antrim_firm_working_with_un_to_avert_potential_oil_disaster_in_red_sea-3343772/ Fast Engineering, which manufactures the ‘FASTANK’ containment units, has been tasked by the UN Development Programme and the IMO, with positioning their portable containment units at the mouth of the Red Sea in the event of a loaded oil supertanker rupturing or exploding.
**M/T Princess Empress** oil tanks all empty; siphoning ops over. *Philippine News Agency (PNA).* 17 June 2023. Available from: https://www.pna.gov.ph/articles/1203742 The oil tanks of the sunken *M/T Princess Empress* have been emptied but containment efforts will continue, the Philippine Coast Guard (PCG) reported on Saturday.

**Inspections and oil transfer preparations almost completed.** *Boskalis.* 27 June 2023. Available from: https://vimeo.com/83999205 Constructed in 1976 as an oil tanker and converted in 1987 to be a floating storage facility, the *FSO Safer* is single-hulled and is believed to contain an estimated 1.14 million barrels of light crude oil.

**SEAFARERS**

**Death-trap trawler crew must be paid and allowed to go home, ITF says.** *International Transport Workers’ Federation (ITF).* 26 May 2023. Available from: https://www.itfglobal.org/en/news/death-trap-trawler-crew-must-be-paid-and-allowed-to-go-home-itf-says The fishing vessel *Santa Isabel* (IMO 7224540), flying under the Belize flag, has been detained by maritime authorities in the port of Vigo in northern Spain since 10 May 2023, after the ITF drew attention to its appalling state, as well as the intolerable conditions for crew observed by the ITF inspector.


**Seafarers victims of ticket scam: flights home fake, crew discover at airport.** *ITF Seafarers.* 5 June 2023. Available from: https://www.itfseafarers.org/en/news/seafarers-victims-ticket-scam-flights-home-fake-crew-discover-airport Twelve Indian seafarers were turned away at a South American airport as they tried to begin their journey home after working on board a bulk carrier for between nine and 13 months.

**Sailors’ Society is on hand to welcome home crew of the *Heroic Idun.*** *Sailors’ Society.* 6 June 2023. Available from: https://sailors-society.org/news/sailors-society-is-on-hand-to-welcome-home-crew-of-the-heroic-idun Members of the Sailors’ Society’s global Crisis Response Network are travelling to Cape Town today (June 6) to welcome back the 26 crew of the *MT Heroic Idun* after supporting them and their families through a 10-month detention by Nigerian authorities.

**MOL’s First Female Captain Takes Command of Car Carrier - Creating a Work Environment in which Diverse People Can Work together and Co-create with Others in a Rewarding environment.** *Mitsui O.S.K. Lines (MOL).* 7 June 2023. Available from: https://www.mol.co.jp/en/pr/2023/23071.html MOL President & CEO Takeshi Hashimoto today announced that Naomi Matsushita has been appointed captain of the car carrier *Beluga Ace*, effective June 6.

**Seafarer labour market tightest on record.** *Drewry Shipping Consultants.* 7 June 2023. Available from: https://www.drewry.co.uk/maritime-research-opinion-browser/seafarer-labour-market-tightest-on-record Officer supply shortfall has reached a record high and is not expected to improve, leading to manning cost inflation, according to the latest Manning Annual Review and Forecast report published by global shipping consultancy Drewry.

Nine seafarer hostages freed four months after product tanker broke down off Libya. Gary Dixon. TradeWinds. 8 June 2023. Available from: https://www.tradewindsnews.com/tankers/nine-seafarer-hostages-freed-four-months-after-product-tanker-broke-down-off-libya/2-1-1464028 Nine Indian crew members are heading home four months after they were taken hostage in Libya.


After 379 days stuck in San Diego, sailors who witnessed environmental crime will soon return home. Alex Riggins. San Diego Union Tribune (US). 13 June 2023. Available from: https://www.sandiegouniontribune.com/news/courts/story/2023-06-13/san-diego-sailors-witnesses-donald-trial Six foreign sailors who were forced to remain in San Diego for more than a year as witnesses to potential environmental crimes aboard a cargo ship have been allowed to return home after testifying last week in the federal trial of the ship’s chief engineer, who was convicted by a jury on three charges.


PPE & female seafarers: A requirement not to be overlooked. Safety4Sea. 16 June 2023. Available from: As seafarers account for a predominantly male workforce, female seafarers experience great difficulty in finding appropriate protective equipment for themselves.


Urgent need for continued support of Ukrainian seafarers: Stella Maris. Marcus Hand. Seatrade Maritime News. 23 June 2023. Available from: https://www.seatrade-maritime.com/crewing/urgent-need-continued-support-ukrainian-seafarers-stella-maris The seafarer charity’s 'Life at Sea report 2022: Amid Kindness and Conflict' highlighted the impact the war in Ukraine has had on the country’s seafarers and their families, as well as Russian seafarers and the shipping industry that employs them.
Seafarers flock to historic ITF expo ahead of Day of the Seafarer. ITF Seafarers. 23 June 2023. Available from: https://www.itfseafarers.org/en/news/seafarers-flock-historic-itf-expo-ahead-day-seafarer Now, 5,000 people, seafarers and their families, will have the opportunity to speak with ITF inspectors, as well as legal, labour and health experts, when they pass through the gates of the largest-ever ITF Seafarers’ Expo being held in Manila this weekend.


**No seafarers, no shipping.** *Fiji Times*. 28 June 2023. Available from: [https://www.fijitimes.com/no-seafarers-no-shipping/](https://www.fijitimes.com/no-seafarers-no-shipping/) This was the comment by Transport Minister Ro Filipe Tuisawau, during the Day of the Seafarer celebrations last Friday.


**SEARCH & RESCUE**

**It took days to help a dangerously overcrowded boat adrift in the Mediterranean. Why?** Mithil Aggarwal. *NBC News (US)*. 11 June 2023. Available from: [https://www.nbcnews.com/news/world/migrant-ship-malta-libya-mediterranean-rescue-maritime-law-rcna87289](https://www.nbcnews.com/news/world/migrant-ship-malta-libya-mediterranean-rescue-maritime-law-rcna87289) 🌍. It was 12:50 a.m. when Maltese authorities were first told that a rickety blue-and-white fishing vessel carrying about 400 migrants was in distress off the island nation’s coast.

**U.S. coast guard says search for missing submersible will continue through the night.** *Canadian Broadcasting Corporation (CBC)*. 19 June 2023. Available from: [https://www.cbc.ca/news/canada/newfoundland-labrador/titanic-submarine-missing-search-1.6881095](https://www.cbc.ca/news/canada/newfoundland-labrador/titanic-submarine-missing-search-1.6881095) 🌍. The search for a small submersible that was heading to the site of the wreck of the *Titanic* is continuing on Monday, with additional resources being brought in to help.


Still no sign of missing submersible, with search focusing on area sounds were heard. Ryan Cooke. *Canadian Broadcasting Corporation (CBC).* 21 June 2023. Available from: [https://www.cbc.ca/news/canada/newfoundland-labrador/titan-search-day-4-titanic-wreckage-1-6883421](https://www.cbc.ca/news/canada/newfoundland-labrador/titan-search-day-4-titanic-wreckage-1-6883421). More than 12 hours after noises were heard underwater, there is still no other sign of the *Titan* submersible.


SHIP RECYCLING


Cyprus calls for EU ship recycling regulation capacity upgrade. Splash 247.com. 6 June 2023. Available from: https://splash247.com/cyprus-calls-for-eu-ship-recycling-regulation-capacity-upgrade/ According to a top BIMCO representative, 15,000 ships with a deadweight capacity of over 600 million tonnes could be recycled over the next decade.


Human rights and environmental NGOs urge UNDP to ensure the clean and safe recycling of FSO Safer. Ingvild Jenssen. NGO Shipbreaking Platform. 15 June 2023. Available from: https://shipbreakingplatform.org/ngos-urge-undp-to-ensure-clean-and-safe-recycling-of-fso-safer/ In a letter addressed to the UNDP, the International Federation of Human Rights, the Basel Action Network, and the NGO Shipbreaking Platform, representing a global coalition of human rights and environmental organisations, call for the recycling of the Floating Storage and Offloading (FSO) vessel SAFER in accordance with international law and UNDP’s own ethical and sustainability policies.

Bangladesh ship recycling: ‘A classic case of global corruption’. Al Jazeera. 21 June 2023. Available from: https://www.youtube.com/watch?v=7wPo2yg8vwA&ab_channel=AlJazeeraEnglish Industry and environmental concerns have long existed, but rights organisations have recently stepped up their calls for action.


SHIPBUILDING & SHIPREPAIR


Biofuel Tanker Designed to Store Captured CO2 from Other Ships. Maritime Executive. 1 June 2023. Available from: https://www.maritime-executive.com/article/biofuel-tanker-designed-to-store-captured-co2-from-other-ships Spanish engineering and technology firm, Sener, reports it has completed the design of a new sustainable biofuel tanker that will also be capable of capturing CO2 from other vessels contributing to the efforts for maritime decarbonization.

World’s largest container ship leaves Felixstowe after first UK visit. BBC News. 2 June 2023. Available from: https://www.bbc.co.uk/news/uk-england-suffolk-65785281 The Port of Rotterdam, one of its previous stops, said it had a capacity of 24,346 TEU (20ft equivalent units) - the world’s biggest container vessel.

What is the environmental footprint of a ship? *Nautical Institute.* 7 June 2023. Available from: [https://www.nautinst.org/resources-page/what-is-the-environmental-footprint-of-a-ship.html](https://www.nautinst.org/resources-page/what-is-the-environmental-footprint-of-a-ship.html) The Nautical Institute’s Head of Safety and Environment, Captain Jeffrey Parfitt, FNI looks at how our environmental awareness has changed over the years, and what makes up a ship’s environmental footprint, shipyard to scrapyard.


Nuclear-Powered Cargo Ships Are Trying to Stage a Comeback. *WIRED.* 9 June 2023. Available from: [https://www.wired.co.uk/article/nuclear-cargo-ships](https://www.wired.co.uk/article/nuclear-cargo-ships) Faced with the difficult task of decarbonizing, some shipping companies are taking another look at a polarizing solution—nuclear fission.

Three killed after shipbuilding gantry crane topples at Wuhu Shipyard. Irene Ang. *TradeWinds.* 12 June 2023. Available from: [https://www.tradewindsnews.com/shipyards/three-killed-after-shipbuilding-gantry-crane-topples-at-wuhu-shipyard/2-1-1465583](https://www.tradewindsnews.com/shipyards/three-killed-after-shipbuilding-gantry-crane-topples-at-wuhu-shipyard/2-1-1465583) Three security guards at Wuhu Shipyard in China were reported killed after a 450-tonne gantry crane was blown over by strong winds on Saturday evening.


World's Largest Cruise Ship **Icon of the Seas** Starts Sea Trials. *Maritime Executive.*


**Green Seas: Can the geopolitical divide be overcome to bring a global carbon levy for shipping?** *Eric Priante Martin. TradeWinds.* 31 May 2023. Available from: [https://www.tradewindsnews.com/opinion/green-seas-can-the-geopolitical-divide-be-overcome-to-bring-a-global-carbon-levy-for-shipping/-2-1-1458492](https://www.tradewindsnews.com/opinion/green-seas-can-the-geopolitical-divide-be-overcome-to-bring-a-global-carbon-levy-for-shipping/-2-1-1458492) When I recently interviewed NorthStandard external affairs head Mike Salthouse for TradeWinds Green Seas podcast, he described a shipping world in which a “parallel market” is carrying the energy exports of Russia to the countries that are willing to buy its oil.

**The sailor’s champion: Samuel Plimsoll.** *Cameron Livingstone. Gard.* 31 May 2023. Available from: [https://www.gard.no/web/articles?documentId=35465684](https://www.gard.no/web/articles?documentId=35465684) Merchant ships have a marking on their hull called the Plimsoll line (the ‘international load line’), which clearly marks the maximum safe draught to which she can load to maintain sufficient reserve buoyancy in all conditions.


**Shell urges shipping to pick up the pace on decarbonisation.** *Lucy Hine. TradeWinds.* 1 June 2023. Available from: [https://www.tradewindsnews.com/gas/shell-urges-shipping-to-pick-up-the-pace-on-decarbonisation/2-1-1459698](https://www.tradewindsnews.com/gas/shell-urges-shipping-to-pick-up-the-pace-on-decarbonisation/2-1-1459698) Shipping is not moving fast enough on decarbonisation and needs to take major steps if it is to reach the 2050 net zero goals, according to a new report published today by energy major Shell.

**Shipping in pole position for race advantage over transport peers.** *Terry Macalister. TradeWinds.* 2 June 2023. Available from: [https://www.tradewindsnews.com/opinion/comment-shipping-in-pole-position-for-race-advantage-over-transport-peers/2-1-1458314](https://www.tradewindsnews.com/opinion/comment-shipping-in-pole-position-for-race-advantage-over-transport-peers/2-1-1458314) It is good to find shipping performed well over the 10 years from 2009, when it comes to decarbonisation as measured against land and air transport peers even as oceangoing cargo volumes increased 40%.
EU ETS for Shipping: UK and Europe. Clyde & Co LLP. 2 June 2023. Available from: https://www.clydeco.com/en/insights/2023/06/decarbonisation-in-shipping-podcast-eu-ets-episode ♦️ In light of the EU’s proposal to extend the EU ETS to include the shipping industry, we have put together a series of Podcasts with our international colleagues to focus on the approach being taken in different jurisdictions to the decarbonisation of the maritime industry, with a spotlight on reactions to the expansion of the EU ETS.


Podcast: Who’s going to foot the bill to decarbonise shipping? Eric Priante Martin. TradeWinds. 2 June 2023. Available from: https://www.tradewindsnews.com/esg/podcast-who-s-going-to-foot-the-bill-to-decarbonise-shipping-2-1-1460892 ♦️ As shipping faces pressure to tackle its greenhouse gas emissions, will it be shipowners, charterers or other stakeholders who are going to pay the cost of going green?

Exclusive look into Australia’s live export industry aboard Al Messilah. Mark Bennett. ABC (Australia). 5 June 2023. Available from: https://www.abc.net.au/news/rural/2023-06-05/life-on-board-live-export-ship-from-perth-to-kuwait/102426782 ♦️ There’s long been controversy and speculation as to what happens inside live export ships as they carry tens of thousands of Australian sheep from Western Australia to the Middle East.


Shipping companies and supply chain showcase climate ambition ahead of critical climate negotiations. United Nations Framework Convention on Climate Change (UNFCCC). 5 June 2023. Available from: https://climatechampions.unfccc.int/shipping-companies-and-supply-chain-showcase-climate-ambition-ahead-of-critical-climate-negotiations/ Leaders from the global shipping industry are taking action to align their businesses with what is needed to limit the worst impacts of climate change, according to those present at an executive-level event convened on the margins of Nor Shipping.


Can we sail to Zero Carbon global trade? Green New Deal Media (UK). 5 June 2023. Available from: https://www.gndmedia.co.uk/podcast-episodes/can-we-sail-to-zero-carbon-global-trade ♦️ This week Ads and Andrew are joined by Dr Christiaan De Beukelaer to discuss his new book “Trade Winds: a voyage to a sustainable future of shipping”. 
Lasse Kristoffersen puts pressure on customers to pay for decarbonization. Idha Toft Valeur. ShippingWatch. 5 June 2023. Available from: https://shippingwatch.com/carriers/article15982801.ece  Wallenius Wilhelmsen CEO Lasse Kristoffersen believes that major companies need to "show the way" and get customers on board with the decarbonization journey.

The time to act is now. Norwegian Shipowners’ Association. 5 June 2023. Available from: https://www.rederi.no/en/articles/the-time-to-act-is-now/ With the global maritime industry gathered in Oslo for Nor-Shipping, we look forward to develop a common understanding across the industry to push for higher ambitions on decarbonization and faster technology development as crucial contributions from our industry to tackle the climate crisis.

Shipping leaders mull how to nudge carbon cuts in an industry not structured for change. Eric Priante Martin. TradeWinds. 6 June 2023. Available from: https://www.tradewindsnews.com/people/shipping-leaders-mull-how-to-nudge-carbon-cuts-in-an-industry-not-structured-for-change/2-1-1462107 How do you change an industry whose age-old commercial structures are a barrier to change?

Anglo-Eastern’s India recruitment license suspension put on hold. Marcus Hand. Seatrade Maritime News. 6 June 2023. Available from: https://www.seatrade-maritime.com/crewing/anglo-easterns-india-recruitment-license-suspension-put-hold In a shock development related to the ongoing investigation into the death of a seafarer in 2018 Anglo-Eastern Ship Management (India) Private Limited’s recruitment and placement service license (RPSL) was suspended for three years from 1 June.

The Lloyd’s List Podcast: Is the industry moving fast enough? Lloyd’s List. 6 June 2023. Available from: https://lloydslist.maritimeintelligence.informa.com/LL1145343/ We have a glut of reports and programmes and feasibility studies and White Papers all pointing to the same conclusion — namely, that reducing the emissions curve this decade is possible, but it will require collective action across the maritime and energy industries.

Greece seen stalling on new EU sanctions package on Russia that targets dark fleet ships. Richard Meade. Lloyd’s List. 7 June 2023. Available from: https://lloydslist.maritimeintelligence.informa.com/LL1145346/ European sanctions banning ships from entering EU ports that have engaged in deceptive ship-to-ship transfers or deliberately switched off Automatic Identification System signals are expected to be agreed imminently, Lloyd’s List understands.

The Shipping Climate Crunch. Andrew MacLeod. The Tyee (Canada). 8 June 2023. Available from: https://thetyee.ca/News/2023/06/08/Shipping-Climate-Crunch/ The global shipping industry is at a turning point that will determine whether it helps or hurts efforts to meet climate change goals, say two University of British Columbia researchers with engineering backgrounds who are studying the issue.


France set to propose climate tax on shipping. Niklas Krigslund. ShippingWatch. 13 June 2023. Available from: https://shippingwatch.com/carriers/article16063653.ece France is working behind the scenes to put together a coalition of countries that seek to implement an environmental tax on vessels when the UN convenes on climate matters next month.


Pricing emissions from shipping: Where should the money go? Rico Salgmann, Isabelle Rojon and Dominik Englert. World Bank. 15 June 2023. Available from: https://blogs.worldbank.org/transport/pricing-emissions-shipping-where-should-money-go Unless shipping moves to zero-carbon fuels and innovative technologies to green its energy footprint, the latest estimates suggest that carbon emissions will grow by 90-130 percent by 2050, as compared to 2008 levels. Distributing Carbon Revenues from Shipping Report

UAE Maritime Week ends with consortium of leading maritime entities. Emirates News Agency (UAE). 15 June 2023. Available from: https://www.wam.ae/en/details/1395303169413 By facilitating knowledge sharing, networking, collaboration, and the signing of important agreements between public and private sectors, the 2023 edition of the UAE Maritime Week proved to be instrumental in driving the progress in the local and regional maritime industry.
**World Bank adds weight to $3.7tn carbon levy as crunch IMO carbon talks near.** Julian Bray. TradeWinds. 16 June 2023. Available from: [https://www.tradewindsnews.com/regulation/world-bank-adds-weight-to-3-7tn-carbon-levy-as-crunch-imo-carbon-talks-near/2-1-1468474](https://www.tradewindsnews.com/regulation/world-bank-adds-weight-to-3-7tn-carbon-levy-as-crunch-imo-carbon-talks-near/2-1-1468474) The World Bank has added its powerful voice to how up to $3.7tn that could be raised from a price on carbon pollution from ships over the next 27 years may be used to drive decarbonisation, fund green bunker fuel infrastructure and support broader climate aims in the world’s most vulnerable nations.


**Study: Less than one third of shipowners have made plans for their decarbonization.** Idha Toft Valeur. ShippingWatch. 19 June 2023. Available from: [https://shippingwatch.com/regulation/article16090964.ece](https://shippingwatch.com/regulation/article16090964.ece) 25 percent of shipowners and operators can be seen as frontrunners, according to a new report, which states that more measures are needed to activate the silent majority to achieve climate target.

**EU-flag requirement starts to bite for Greeks as new law kicks in.** Harry Papachristou. TradeWinds. 19 June 2023. Available from: [https://www.tradewindsnews.com/regulation/eu-flag-requirement-starts-to-bite-for-greeks-as-new-law-kicks-in/2-1-1469897](https://www.tradewindsnews.com/regulation/eu-flag-requirement-starts-to-bite-for-greeks-as-new-law-kicks-in/2-1-1469897) For every vessel that Greek shipowners put under one of the usual international registries based in the tropics, they will soon have to register a comparable ship under a European jurisdiction.


Climate impact of shipping under growing scrutiny ahead of key meeting. Isabella Kaminski. The Guardian. 22 June 2023. Available from: https://www.theguardian.com/environment/2023/jun/22/climate-impact-shipping-under-growing-scrutiny-imo-meeting-seascape Governments are under growing pressure to tackle the huge climate impact of the shipping industry, before a key IMO meeting in the summer.


Women must play more central role in maritime sector’s future. Nidaa Bakhsh. Lloyd’s List. 22 June 2023. Available from: https://lloydslist.maritimeintelligence.informa.com/LL1145559/ At an awards ceremony hosted by the Women’s International Shipping & Trading Association UK, former shipping minister Nusrat Ghani said more talented women were needed in the industry.

EU sanctions ship ban details yet to be decided. Richard Meade. Lloyd’s List. 22 June 2023. Available from: https://lloydslist.maritimeintelligence.informa.com/LL1145564 European Union member states are yet to decide the details of how ships will be targeted and potentially banned under new sanctions agreed on Wednesday.


Paris climate summit ends without a deal on global tax on shipping. Sylvie Corbet and Samuel Petrequin. Associated Press. 23 June 2023. Available from: https://apnews.com/article/climate-paris-summit-poverty-united-nations-31fe5a3f7c1844bb95759f1338c33bca8. Participants at a Paris summit stopped short Friday of a deal to create a tax on greenhouse gas emissions produced from international shipping, leaving climate NGOs and activists lamenting the lack of ambitious responses to fight climate change and the world’s inequalities brought forward at the meeting.


Shipping emissions could be halved without damaging trade, research finds. Fiona Harvey. The Guardian. 26 June 2023. Available from: https://www.theguardian.com/environment/2023/jun/26/shipping-emissions-could-be-halved-without-damaging-trade-research-finds. Greenhouse gas emissions from shipping could be halved by 2030 without damaging trade, new research has found, as countries prepare to meet to discuss a potential new tax on carbon produced by ships.

Understanding Maritime Decarbonization’s Impacts on Trade Costs to Unlock a Just Transition. Connor Bingham and Ida Tang Mikkelsen. United Nations Conference on Trade and Development (UNCTAD). 26 June 2023. Available from: https://unctad.org/news/transport-newsletter-article-no-107-understanding-maritime-decarbonization. Effectively addressing the impact of increased trade costs on emerging market economies and less developed countries will be needed to ensure that the transition to scalable zero emission fuels is just and equitable.


RESEARCH


Pulletikurthi V, Esquivel-Puentes HA, et al. **Impact of flow regime on the performance of anti-biofouling coatings.** *Scientific Reports.* 12 June 2023. Available from: [https://www.nature.com/articles/s41598-023-36736-7](https://www.nature.com/articles/s41598-023-36736-7) Biofouling poses significant challenges for marine transportation due to increased skin drag, which results in increased fuel cost and associated CO2 emissions.
About the front cover

The CAB front cover is a photograph of the international memorial to the world’s seafarers, past, present and future which graces the entrance to IMO Headquarters in London. The memorial, a seven-metre high, ten-tonne bronze representation of the bow of a cargo ship with a lone seafarer on the deck, is the work of internationally renowned British sculptor Michael Sandle.