

INTERNATIONAL MARITIME ORGANIZATION
MARITIME KNOWLEDGE CENTRE
“sharing maritime knowledge”

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Maritime Knowledge Centre
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INTERNATIONAL MARITIME ORGANIZATION
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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 subject areas related to the work of IMO. Each CAB issue presents headlines from the previous month. For copyright reasons, the *Current Awareness Bulletin* (CAB) contains excerpts only. Links to the complete articles or abstract on publishers' sites are included when available, though access may require payment or subscription.

The MKC *Current Awareness Bulletin* is published monthly and issues from the current and the past year are free to download from this [page](#).

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IMO / UNITED NATIONS NEWS & EVENTS

WHAT'S NEW

Indian Master receives 2016 IMO Award for Exceptional Bravery at Sea

The Master of an oil tanker who says she was “just doing her job” has received the highest IMO bravery recognition for saving the lives of seven fishermen from a sinking fishing boat during a tumultuous storm in the Bay of Bengal in June 2015.

“It is every seafarer’s and Master’s solemn duty and obligation to save souls in distress at sea. I just did what a seafarer should do for a fellow soul in distress at sea. Yes, it was an instant decision, but not without assessing the risks involved. I just did my duty,” said Captain Radhika Menon, Master of the oil products tanker Sampurna Swarajya.

She was speaking after IMO Secretary-General Kitack Lim presented her with the 2016 IMO Award for Exceptional Bravery at Sea on Monday (21 November), during an emotional ceremony. [Full Story: Briefing 30 - 22/11/2016](#)

(Photos can be viewed and downloaded [here](#).) (Watch the video [here](#))

IMO MEETINGS FOR 2016

[Maritime Safety Committee \(MSC\)](#)

97th session, 21 – 25 November 2016

IMO PRESS BRIEFINGS

[Turkey’s World Maritime Day Parallel Event highlights shipping’s indispensable role](#)

Briefing: 29, November 11, 2016

IMO NEWS MAGAZINE [\(Issue 4, 2016\)](#)

IMO PUBLISHING [Just Published: 2017](#) [November 2016 Newsletter](#)

RECENT SPEECHES BY IMO SECRETARY-GENERAL KITACK LIM

Maritime Safety Committee (MSC)
97th session, 21 – 25 November 2016 ([Opening](#) and [Closing](#) remarks)

[Eighth City of London Biennial Meeting - "Striving for Stability in a Highly Uncertain World"](#)
18 November 2016

World Maritime Day Parallel Event, Istanbul, Turkey - "Shipping: indispensable to the world"
4 – 6 November 2016 ([Opening](#) and [Closing](#) Remarks)

[Dubai Maritime Summit - "IMO and the regulatory environment"](#) 2 November 2016

UNITED NATIONS NEWS

Expert panel finds that greener, more efficient and sustainable transport can save trillions and help achieve Sustainable Development Goals. *United Nations Division for Sustainable Development* [Online]. 28 October 2016. Available from: <https://sustainabledevelopment.un.org/?page=view&nr=1118&type=230&menu=2059> Greater investment in greener, more sustainable transport systems is essential for propelling the economic and social development that is essential for achieving the Sustainable Development Goals, according to an expert panel report delivered to UN Secretary-General Ban Ki-moon today. [Mobilizing sustainable transport for development](#) 

UN agencies, Vatican issue call to stamp out illegal fishing and 'modern-day slavery' on high seas. *UN News Centre* [Online]. 21 November 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=55615> Condemning illegal fishing and labour exploitation in the world's oceans, the United Nations agriculture and labour agencies, joining forces with the Vatican, underlined today the need for collective, global action to end labour and human rights abuse along the entire fisheries value chain.

President of UN General Assembly visits IOC, calls on Commission to play key role at First UN Conference on the Ocean. *UNESCO* [Online]. 22 November 2016. Available from: http://www.unesco.org/new/en/media-services/single-view/news/at_unesco_president_of_the_un_general_assembly_calls_on_ioc/ H.E. Mr. Peter Thomson, President of the 71st Session of the United Nations General Assembly, met with the Chairman, Executive Secretary and other key officials of UNESCO's Intergovernmental Oceanographic Commission (IOC) to discuss its key role in preparing for the upcoming UN Conference in support of the implementation of Sustainable Development Goal 14 – the "Ocean SDG" (New York, 5-9 June 2017).

Sustainable Transport Must Answer Needs of 'Those Who Have the Least', Says Secretary-General as Global Conference Opens in Turkmenistan. *United Nations* [Online]. 26 November 2016. Available from: <http://www.un.org/press/en/2016/envdev1758.doc.htm> The first ever Global Sustainable Transport Conference opened today, bringing together key stakeholders from Governments, the United Nations system and other international organizations, the private sector and civil society, to engage in a dialogue over two days on the integrated and cross-cutting nature of transport and its multiple roles in supporting the achievement of the 2030 Agenda for Sustainable Development.

UN conference to address way forward on global sustainable transport challenges. *UN News Centre* [Online]. 25 November 2016. Available from: <https://www.un.org/apps/news/story.asp?NewsID=55649>  The first-ever global conference on sustainable transport takes place this weekend in Turkmenistan, bringing together representatives from the United Nations, governments, the private sector and civil society to set new directions for global transport efforts.

New UN report reveals barriers to inclusive development and highlights key steps to progress. *UN News Centre* [Online]. 30 November 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=55684> The United Nations Department of Economic and Social Affairs has just released its 2016 Report on the World Social Situation, which includes important new findings about persisting inequalities in education and economic opportunity and, challenges the international community to work harder to break down barriers to participation.

CASUALTIES

At least 14 killed, 59 injured in Gadani shipbreaking yard fire. By Zubair Ashraf and Zafar Baloch. *Express Tribune (Pakistan)* [Online]. 1 November 2016. Available from: <http://tribune.com.pk/story/1217107/casualties-feared-fire-erupts-gadani-shipbreaking-yard/> At least 14 people were killed and 59 wounded Tuesday when a gas cylinder exploded and started a fire inside an oil tanker being broken up for scrap Gadani shipbreaking yard, officials said.

Blast kills eight at Gadani ship-breaking yard. *SAMAA TV (Pakistan)* [Online]. 1 November 2016. Available from: <http://www.samaa.tv/pakistan/2016/11/oil-tanker-blast-kills-three-at-gadani-ship-breaking-yard/> At least eight labourers were killed and more than 50 others wounded on Tuesday when a blast occurred in an oil tanker at Gadani ship-breaking yard.

At least 10 workers killed as fire rips through beached tanker at Gadani. By Sam Chambers. *Splash 24/7* [Online]. 1 November 2016. Available from: <http://splash247.com/least-10-workers-killed-fire-rips-beached-tanker-gadani/> A giant fire engulfed a beached tanker today killing at least ten workers at the Gadani shipbreaking area in Pakistan injuring another 50.

Gadani ship-breaking yard blast kills at least 11 in Pakistan. *BBC News* [Online]. 1 November 2016. Available from: <http://www.bbc.co.uk/news/world-asia-37834414> Workers were dismantling an oil tanker in Gadani when a gas cylinder exploded, causing the ship to catch fire.

Police register case as Gadani ship-breaking yard death toll rises to 20. *GEO TV (Pakistan)* [Online]. 3 November 2016. Available from: <https://www.geo.tv/latest/119390-Death-toll-from-blast-at-Gadani-ship-breaking-yard-mounts-to-16> Fire engulfs the vessel as even after 48 hours rescue workers have been unable to put out the fire.

Maersk Container Ship Suffers Engine Room Fire. *Maritime Executive* [Online]. 2 November 2016. Available from: <http://maritime-executive.com/article/maersk-container-ship-suffers-engine-room-fire> The Maersk containership *Maersk Patras* suffered an engine room fire off of Las Palmas yesterday.

Iranian oil tanker sinks, all 12 onboard rescued. *MEHR News Agency (Iran)* [Online]. 5 November 2016. Available from: <http://en.mehrnews.com/news/121079/Iranian-oil-tanker-sinks-all-12-onboard-rescued> According to Iranian Offshore Oil Company (IOOC), 'Masrour' oil tanker, rented by the IOOC, ran into trouble at 14:30 on Wednesday, Nov. 2, four miles off a drilling rig located at Soroush Oilfield in the Persian Gulf.

Death toll of Gadani ship fire climbs to 25. *GEO TV (Pakistan)* [Online]. 6 November 2016. Available from: <https://www.geo.tv/latest/119660-Fire-at-Gadani-ship-put-out-after-four-days> Three more workers succumbed to their injuries inflicted by the fire at an oil tanker in Gadani ship-breaking yard, taking the death toll to 25.

Safety lessons: crew overboard and no alarm raised. *UK Marine Accident Investigation Branch (MAIB)* [Online]. 3 November 2016. Available from: <https://www.gov.uk/government/publications/safety-lessons-crew-overboard-and-no-alarm-raised> This safety message concerns the loss of 2 crew overboard from the potter *Harvester* in Aberdey Bay, North Pembrokeshire on 28 April 2016. [Fishing vessel Harvester \(M999\), fatal man overboard accident, 28 April 2016](#)

Gadani ship blaze far deadlier than we are told. By Qaiser Butt. *Express Tribune (Pakistan)* [Online]. 12 November 2016. Available from: <http://tribune.com.pk/story/1228572/gadani-ship-blaze-far-deadlier-told/> Efforts to unravel the truth about the Nov 1 Gadani ship blaze are proving to be harder than expected as a combination of hazy facts and conflicting figures continue to throw the investigation off course.

KNKT starts investigation on Tuban ships collision. By Slamet Agus Sudarmojo. *Antara News (Indonesia)* [Online]. 21 November 2016. Available from: <http://www.antaraneews.com/en/news/107928/knkt-starts-investigation-on-tuban-ships-collision> The National Transportation Safety Commission (KNKT) on Monday has begun its investigation on a ship crash in Java Sea that involved a local fishing boat carrying 27 crews and a Vietnamese-flag trading vessel.

Three dead, twelve missing after Vietnamese freighter collides with Indonesian sailboat. *South China Morning Post* [Online]. 20 November 2016. Available from: <http://www.scmp.com/news/asia/southeast-asia/article/2047700/fifteen-missing-after-vietnamese-freighter-collides> A collision between a Vietnamese freighter and an Indonesian sailboat off Indonesia's East Java province left three people dead and 12 others missing, Indonesia's search and rescue agency said on Sunday.

Update: Saga Sky now in anchorage at Dungeness following incident this morning. *UK Maritime & Coastguard Agency* [Online]. 20 November 2016. Available from: <http://hmcoastguard.blogspot.co.uk/2016/11/update-saga-sky-now-in-anchorage-at.html>  The *Saga Sky* is now in a safe anchorage at Dungeness after it suffered damage this morning following engine and steering failure and collided with a rock barge at the Varne Bank.

Cargo ship hits barge in Storm Angus. *BBC News* [Online]. 20 November 2016. Available from: <http://www.bbc.co.uk/news/uk-38038992>  A 200m-long cargo ship hit a barge full of rocks in the English Channel, as Storm Angus battered the south coast of England with high winds and heavy rain.

Cargo ship evacuated after hitting rocks at Samphire Hoe near Dover in high wind. By Eleanor Perkins. *Kent Online (UK)* [Online]. 20 November 2016. Available from: <http://www.kentonline.co.uk/dover/news/cargo-ship-evacuated-after-hitting-116074/> A coastguard helicopter has rescued 11 of the 23 people on board the sinking *Saga Sky*.

Passengers' 'relief' after stranded ferry returns to Wales. *BBC News* [Online]. 22 November 2016. Available from: <http://www.bbc.co.uk/news/uk-wales-38057752>  Passengers have spoken of their relief after docking in Wales almost 24 hours late because of a storm which left them stranded in the Irish Sea overnight.

Rig's grounding on Lewis 'could not be prevented'. *BBC News* [Online]. 21 November 2016. Available from: <http://www.bbc.co.uk/news/uk-scotland-highlands-islands-38049958> The *Transocean Winner* could not have been prevented from running aground, MPs have been told.

Accident Investigation Report: Fatality on board *Skandi Pacific*, off the Pilbara coast, Western Australia on 14 July 2015. *Australian Transport Safety Bureau (ATSB)* [Online]. 23 November 2016. Available from: https://www.atsb.gov.au/publications/investigation_reports/2015/mair/322-mo-2015-005/ In the early hours of 14 July 2015, the offshore support vessel (OSV) *Skandi Pacific* was loading cargo containers from the semi-submersible oil rig Atwood Osprey at its offshore location, about 90 miles north-west off Dampier. [Report: Fatality on board Skandi Pacific Investigation off the Pilbara coast, Western Australia, 14 July 2015](#) 

Pirate Dies in Attack on Tanker off Nigeria. *World Maritime News* [Online]. 24 November 2016. Available from: <http://worldmaritimenews.com/archives/207303/> An unknown number of pirates armed with automatic weapons in a speed boat approached and fired at a tanker while it was some 61 nautical miles off the coast of Bayelsa Coast, Nigeria, according to data provided by IMB Piracy Reporting Centre

Collision between a cargo ship and an anchored barge. *UK Marine Accident Investigation Branch (MAIB)* [Online]. 24 November 2016. Available from: <https://www.gov.uk/government/news/collision-between-a-cargo-ship-and-an-anchored-barge> MAIB has commenced a safety investigation into a collision between the forest product carrier *Saga Sky* and the anchored stone carrying barge *Stema Barge II*, close to the port of Dover on Sunday 20 November 2016.

Transocean Winner's Backup Towline was Fouled. *Maritime Executive* [Online]. 23 November 2016. Available from: <http://maritime-executive.com/article/transocean-winners-backup-towline-was-fouled> On Tuesday, the operator of the tug that lost its towline to the semisubmersible *Transocean Winner* testified that it was not possible to re-establish a connection because the emergency towline had wrapped on the rig.

Oral evidence: *Transocean Winner* incident and emergency towing vessels, HC 817. *UK Parliament Transport Committee* [Online]. 21 November 2016. Available from: <http://goo.gl/a1mLey> Ordered by the House of Commons to be published on 21 November 2016. [Hearing](#) 

Cargo ship crushes George Town reef. *CBS News (USA)* [Online]. 28 November 2016. Available from: <https://caymannewsservice.com/2016/11/cargo-ship-crushes-george-town-reef/>  The Department of Environment has begun an investigation after the hull of a cargo vessel reportedly crushed a significant area of the reef in the George Town harbour when the ship ran aground.

Three crew killed on Italian ro-pax. By Gary Dixon. *TradeWinds* [Online]. 30 November 2016. Available from: <http://www.tradewindsnews.com/casualties/1195346/three-crew-killed-on-italian-ro-pax> Three seafarers have been killed by toxic gas on a Caronte & Tourist ro-pax in Italy.

NTSB Opens Docket for *El Faro* Investigation, Holds Press Briefing. *US National Transportation Safety Board (NTSB)* [Online]. 30 November 2016. Available from: <https://www.nts.gov/news/press-releases/Pages/PR20161130.aspx> The National Transportation Safety Board announced Wednesday its intent to open the docket Dec. 13, 2016, for its investigation into the sinking of the U.S. flagged cargo ship *El Faro*.

ENVIRONMENT

Geoengineering to Alter Climate Moves Closer to Reality. By Anna Hirtenstein. *Bloomberg* [Online]. 1 November 2016. Available from: <http://www.bloomberg.com/news/articles/2016-10-31/geoengineering-to-alter-climate-change-moves-closer-to-reality> A United Nations body is investigating controversial methods to avert runaway climate change by giving humans the go-ahead to re-engineer the Earth's oceans and atmosphere.

How China came in from the cold to help set up Antarctica's vast new marine park. *The Conversation* [Online]. 31 October 2016. Available from: <https://theconversation.com/how-china-came-in-from-the-cold-to-help-set-up-antarcticas-vast-new-marine-park-67911> Conservationists have been celebrating the creation of the world's largest marine park, covering 1.55 million square kilometres of the Ross Sea off Antarctica.

140 countries will phase out HFCs. What are these and why do they matter? By Alexander Ovodenko. *Washington Post* [Online]. 3 November 2016. Available from: <https://www.washingtonpost.com/news/monkey-cage/wp/2016/11/03/140-countries-will-now-phase-out-hfcs-what-are-these-and-why-do-they-matter/> On Oct. 14, 140 countries meeting in Kigali, Rwanda, agreed to reduce emissions of hydrofluorocarbon (HFCs), a potent greenhouse gas used as a coolant in refrigerators and air conditioners.

World must urgently up action to cut a further 25% from predicted 2030 emissions, says UN Environment report. *United Nations Environment Programme (UNEP)* [Online]. 3 November 2016. Available from: <http://unep.org/newscentre/Default.aspx?DocumentID=27088&ArticleID=36295&> The world must urgently and dramatically increase its ambition to cut roughly a further quarter off predicted 2030 global greenhouse emissions and have any chance of minimizing dangerous climate change, UN Environment said today as it released its annual Emissions Gap report. [The Emissions Gap Report 2016](#) 

What Does "World Class Oil Spill Response" Even Mean? By David Suzuki. *Huffington Post (Canada)* [Online]. 2 November 2016. Available from: http://www.huffingtonpost.ca/david-suzuki/oil-spill-response-companies_b_12760922.html In July, a pipeline leak near Maidstone, Saskatchewan, spilled about 250,000 litres of diluted oil sands bitumen into the North Saskatchewan River, killing wildlife and compromising drinking water for nearby communities, including Prince Albert.

Worldwide Green Light for Climate Action as Paris Agreement Enters into Force. *United Nations Framework Convention on Climate Change (UNFCCC)* [Online]. 4 November 2016. Available from: <http://newsroom.unfccc.int/unfccc-newsroom/worldwide-green-light-for-climate-action-as-paris-agreement-enters-into-force/> A big green light for faster, stronger climate action was switched on today as the Paris Climate Change Agreement entered into force, only three days before the start of this year's UN Climate Change Conference in Marrakech.

Reducing shipping's CO2 emissions – the Danish Shipowners' way forward. *Danmarks Rederiforening (Danish Shipowners' Association)* [Online]. 3 November 2016. Available from: <https://www.shipowners.dk/en/presse/nyheder/reducing-shippings-co2-emissions-the-danish-shipowners-way-forward/> Shipping is not included in the Paris Agreement entering into force on 4th November. [Policy Paper on Climate](#) 

ICS Tells UN Climate Conference that IMO Needs to Agree Ambitious CO2 Commitments for Shipping by 2018. *International Chamber of Shipping (ICS)* [Online]. 8 November 2016. Available from: <http://goo.gl/pSbHDf> At the UNFCCC Climate Conference (COP 22), in Marrakesh, the International Chamber of Shipping (ICS) said that the recent International Maritime Organization (IMO) agreement on a CO2 Road Map for shipping is a significant decision giving further impetus to the substantial CO2 reductions that are already being delivered by the global industry.

Dozens of heads of State and Government to attend UN climate conference. *UN News Centre* [Online]. 13 November 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=55546> Ten days after the entry into force of the landmark Paris Agreement, dozens of heads of State and Government are expected on Tuesday at the United Nations Climate Change Conference (COP 22), which started in Marrakech, Morocco, on 7 November 2016.

First UK assessment of underwater noise in the marine environment published by UK research partnership. *UK Centre for Environment, Fisheries and Aquaculture Science (Cefas)* [Online]. 11 November 2016. Available from: <http://goo.gl/JjifzA> The Centre for Environment, Fisheries and Aquaculture Science (Cefas) has teamed up with Marine Scotland Science and the University of Exeter to analyse underwater noise data from subsea sound recorders located around the UK coast.

Seabed prospecting undermines blue economy. *The Namibian* [Online]. 18 November 2016. Available from: <http://www.namibian.com.na/158332/archive-read/Seabed-prospecting-undermines-blue-economy> The South African government has identified the marine economy as a much-needed growth area in a stagnant economy, but ambitious development plans are being undermined by proposed seabed strip mining off the western and southern shores.

Marrakech Action Proclamation Expresses Irreversible Momentum On Climate. *United Nations Framework Convention on Climate Change (UNFCCC)* [Online]. 17 November 2016. Available from: <http://newsroom.unfccc.int/unfccc-newsroom/marrakech-action-proclamation-expresses-irreversible-momentum-on-climate/> A shift towards a new era of implementation and action on climate change and sustainable development has been signaled by Heads of State, Heads of Government and Delegations from all over the world through the Marrakech Action Proclamation. [Marrakech Action Plan Proclamation for Our Climate and Sustainable Development](#) 

Bryza praises Azerbaijan's work in protecting Caspian ecology. By Lema Zeynalova and Anvar Mammadov. *Trend News Agency (Azerbaijan)* [Online]. 21 November 2016. Available from: <http://en.trend.az/business/energy/2687952.html> Azerbaijan has done a great job in cleaning the Caspian Sea from oil, Matthew Bryza, former US assistant secretary for South Caucasus and former US ambassador to Azerbaijan, told Trend Nov.21.

Australia failing to protect Great Barrier Reef from shipping disasters, say lawyers. By Michael Slezak. *The Guardian* [Online]. 21 November 2016. Available from: <https://www.theguardian.com/environment/2016/nov/22/australia-failing-to-protect-great-barrier-reef-from-shipping-disasters-say-lawyers> The government is failing to protect the reef from the effects of shipping disasters, according to environmental lawyers, who say inaction to secure remediation funds will become a bigger problem as shipping traffic increases.

Arctic Resilience Report. By Marcus Carson and Gary Peterson. *Stockholm Environment Institute* [Online]. 2016. Available from: <https://www.sei-international.org/publications?pid=3047>
 The project's 2013 Interim Report provided the conceptual foundations for this final report, as well as a detailed survey of resilience research in the Arctic to date. [Arctic Resilience Report 2016](#)

Arctic ice melt could trigger uncontrollable climate change at global level. By Fiona Harvey. *The Guardian* [Online]. 25 November 2016. Available from: <https://www.theguardian.com/environment/2016/nov/25/arctic-ice-melt-trigger-uncontrollable-climate-change-global-level>
 Arctic scientists have warned that the increasingly rapid melting of the ice cap risks triggering 19 "tipping points" in the region that could have catastrophic consequences around the globe.

Climate change 'threatens Thai fight against illegal fishing'. By Cod Satrusayang. *Reuters* [Online]. 28 November 2016. Available from: <http://www.reuters.com/article/us-thailand-fishing-idUSKBN13N0OU>
 Climate change threatens to undermine Thailand's efforts to combat illegal fishing and avoid a potential European Union ban on exports by the multi-billion dollar seafood industry, environmental groups say.

Great Barrier Reef: Australia's 'response plan' draft contains no new action or funding. By Michael Slezak. *The Guardian* [Online]. 29 November 2016. Available from: <https://www.theguardian.com/environment/2016/nov/30/great-barrier-reef-australias-response-plan-draft-contains-no-new-action-or-funding>
 The Australian government's official "response plan" to the worst ever bleaching event on the Great Barrier Reef commits it to no new action, pledges no new money and does not make any attempt to address climate change, according to a draft seen by the Guardian.

New forecast tool helps ships avoid blue whale hotspots. *US National Oceanic and Atmospheric Administration (NOAA)* [Online]. 29 November 2016. Available from: http://www.westcoast.fisheries.noaa.gov/stories/2016/29_11292016_system_against_ship_strikes.html
 Scientists have long used Argos satellite tags to track blue whales along the West Coast, learning how the largest animals on the planet find enough small krill to feed on to support their enormous size.

Environmentalists predict pipeline expansion will lead to extinction of orcas. By Robert Buffam. *CTV News (Canada)* [Online]. 30 November 2016. Available from: <http://vancouverisland.ctvnews.ca/environmentalists-predict-pipeline-expansion-will-lead-to-extinction-of-orcas-1.3182816>
 Environmental groups say the government's decision to approve a major pipeline will lead to the extinction of orca whales in B.C. waters.

ENVIRONMENTAL POLLUTION

LNG not a solution for reducing GHGs, says former CEO. *Ship Management International* [Online]. 2 November 2016. Available from: <http://shipmanagementinternational.com/lng-not-a-solution-for-reducing-ghgs-says-former-ceo/> Liquefied natural gas (LNG) is not a panacea to reducing greenhouse gas emissions and its increasing use as a marine fuel could be worse for the environment than burning heavy fuel oil.

CO2 Emissions from International Shipping: Possible reduction targets and their associated pathways. *UMAS (Commissioned by the Danish Shipowners' Association)* [Online]. October 2016. Available from: <http://goo.gl/OK1yWg> Full Report This study was undertaken using a series of models and selections of assumptions, to simulate how the shipping sector might evolve to meet different constraints on its total CO2 emissions. [Executive Summary](#)

War of words over whether LNG as a ship fuel is greener than low-sulphur oil. By Alexander Whiteman. *The Loadstar* [Online]. 3 November 2016. Available from: <http://theloadstar.co.uk/war-words-whether-lng-ship-fuel-greener-low-sulphur-oil/> Liquefied natural gas (LNG) as a fuel-type presents a false dawn in shipping's attempt to reduce its greenhouse gas emissions, according to Ian Adams, chief executive of the Association of Bulk Terminal Operators.

Tug that spilled 110K litres of fuel lifted from sea floor near Bella Bella. By Lisa Johnson and Justin McElroy. *Canadian Broadcasting Corporation (CBC)* [Online]. 14 November 2016. Available from: <http://www.cbc.ca/news/canada/british-columbia/nathan-e-stewart-tug-recovery-bella-bella-1.3850271> The sunken tug that contaminated the waters of British Columbia's Central Coast with more than 100,000 litres of fuel was raised from the sea floor Monday.

Marine oil spill exercise 'Barracuda-VII'. By Parvez Jabri. *Business Recorder (Pakistan)* [Online]. 14 November 2016. Available from: <http://www.brecorder.com/pakistan/general-news/327922> A Pakistan Marine Security Agency (PMSA) statement here on Monday said that after the catastrophic incident of MV Tasman Spirit in Karachi in 2003, a need was strongly felt to formulate a comprehensive Anti Pollution Plan.

The massive problem of microplastics. By Camilla Alexander-White. *Royal Society of Chemistry* [Online]. 15 November 2016. Available from: <https://eic.rsc.org/section/feature/the-massive-problem-of-microplastics/2000127.article> As plastics fill up and pollute our oceans, recognising their value rather than thinking of them as disposable could help us deal with what has turned into a large, global problem.

Arctic Expedition Cruise Operators Support HFO Ban. *Maritime Executive* [Online]. 16 November 2016. Available from: <http://www.maritime-executive.com/article/arctic-expedition-cruise-operators-support-hfo-ban> The Association of Arctic Expedition Cruise Operators (AECO) reconfirmed its support for an international ban on heavy fuel oil (HFO) for all ship traffic in the Arctic at its annual general meeting this week.

USGS, NASA Study Finds Widespread Coastal Land Losses from Gulf Oil Spill. *US Geological Survey (USGS)* [Online]. 17 November 2016. Available from: <https://www.usgs.gov/news/usgs-nasa-study-finds-widespread-coastal-land-losses-gulf-oil-spill> A new USGS-NASA study found widespread shoreline loss along heavily oiled areas of Louisiana's coast after the 2010 BP *Deepwater Horizon* oil spill and compared the erosion from the spill with coastal changes Hurricane Isaac caused in 2012.

Texas A&M Team Examines Role Of Dispersants In 2010 Gulf Oil Spill. *Texas A & M University* [Online]. 21 November 2016. Available from: <https://today.tamu.edu/2016/11/21/texas-am-team-examines-role-of-dispersants-in-2010-gulf-oil-spill/> Following the 2010 *Deepwater Horizon* oil spill in the Gulf of Mexico, dispersants were used to keep the oil from coming ashore by dispersing and diluting it.

The gulf oil spill literally caused wetlands to sink beneath the waves, scientists say. By **Chelsea Harvey.** *Washington Post* [Online]. 21 November 2016. Available from: <http://goo.gl/AhKspk> Six years after the *Deepwater Horizon* oil spill devastated the shore of the Gulf of Mexico, scientists are still taking stock of the damage it caused.

Stronger measures needed to tackle harm from air pollution. *European Environment Agency (EEA)* [Online]. 23 November 2016. Available from: <http://www.eea.europa.eu/highlights/stronger-measures-needed> Air pollution has significant impacts on the health of Europeans, particularly in urban areas, according to a new report from the European Environment Agency (EEA). [Air quality in Europe - 2016 report](#)

Can we contain oil spills? The answer is in the sheen. By **Chris Brown and Chris Corday.** *Canadian Broadcasting Corporation (CBC)* [Online]. 28 November 2016. Available from: <http://www.cbc.ca/news/canada/british-columbia/can-we-contain-oil-spills-the-answer-is-in-the-sheen-1.3855903> If the Trudeau government approves the expansion of Kinder Morgan's Trans Mountain pipeline, B.C.'s oil cleanup industry will be in line for the biggest infusion of cash in its history.

HEALTH AND SAFETY

Ministry of Shipping sponsors safety training programme for ship recycling workers under Sagarmala. *Government of India* [Online]. 2 November 2016. Available from: <http://pib.nic.in/newsite/PrintRelease.aspx?relid=153193> As part of its Coastal Community Development Programme under Sagarmala, the Ministry of Shipping has sanctioned Rupees 10 Crore as part of the first instalment to the Gujarat Maritime Board for capacity building and safety training of 20,000 workers involved in the ship recycling activities at Alanag- Sosiya recycling yard in Bhavnagar district in Gujarat.

MARTHA: is length of time at sea to blame for seafarer fatigue? *InterManager* [Online]. 2 November 2016. Available from: <http://www.intermanager.org/2016/11/martha-is-length-of-time-at-sea-to-blame-for-seafarer-fatigue-2/> Building on its predecessor, Project HORIZON which identified serious concerns with the 6/6 shift pattern where 50% of participants fell asleep during their shifts, Project MARTHA was launched in 2013 to address this issue and now reports ground-breaking research into seafarer fatigue.

Crew Wellbeing is Improving - UK P&I Club. By **Michele Howard.** *Maritime Logistics Professional* [Online]. 21 November 2016. Available from: <http://www.maritimeprofessional.com/news/crew-wellbeing-improving-club-298526> In the 20 years since UK P&I Club first established its pre-employment medical examination (PEME) program, the number of crew members failing their PEME examination has fallen from 11 percent in 1996 to a current figure of 3.25 percent, reflecting a combination of increased fitness and wellbeing of crew globally, as well as tighter selection criteria.

IMO

Why the IMO's 2020 Global Fuel Sulfur Limit Is Significant. By Barbara Finamore, Asia Director, China Program. *Natural Resources Defense Council (NRDC)* [Online]. 3 November 2016. Available from: <https://www.nrdc.org/experts/barbara-finamore/why-imos-2020-global-fuel-sulfur-limit-significant> The International Maritime Organization (IMO) made a historic decision last Thursday, finalizing its plan to dramatically reduce the global sulfur limit of marine fuels by 85 percent in 2020.

Carbon War Room Statement in reaction to IMO MEPC 70. *All About Shipping* [Online]. 7 November 2016. Available from: <http://www.allaboutshipping.co.uk/2016/11/07/carbon-war-room-statement-in-reaction-to-imo-mepc-70/> Galen Hon, Shipping Operation Manager, Carbon War Room commented: "It was hugely promising to see numerous calls urging IMO member states to act on GHG emissions in advance of the latest meeting of the Marine Environment Protection Committee (MEPC).

IBIA commentary: Global cap in 2020: Now what? *International Bunker Industry Association (IBIA)* [Online]. 7 November 2016. Available from: <http://ibia.net/ibia-commentary-global-cap-in-2020-now-what/> The official availability study undertaken for the International Maritime Organization by CE Delft concluded that there will be sufficient low sulphur fuel available to introduce the 0.50% global marine fuel sulphur limit on 1 January 2020.

U.N. ship agency to press on with carbon cutting efforts after Trump win. By Jonathan Saul. *Reuters* [Online]. 15 November 2016. Available from: <http://uk.reuters.com/article/us-climatechange-accord-shipping-idUKKBN13A1CM> Global efforts to cut greenhouse gas emissions will continue even after the election of climate change sceptic Donald Trump to the U.S. presidency and momentum is growing to cut ship pollution, the United Nations' shipping agency chief told Reuters.

Russia initiates IMO Assembly resolution to encourage more states ratify MARPOL Annex VI. *Port News* [Online]. 16 November 2016. Available from: <http://portnews.ru/news/229661/> Russia comes forward with an initiative on development of IMO Assembly resolution to encourage as many states as possible to ratify MARPOL Annex VI (setting restrictions for sulphur content in marine fuel).

IMO Eyes Iran's Partnership in Making Maritime Regulations. *Tasnim News Agency (Iran)* [Online]. 25 November 2016. Available from: <https://www.tasnimnews.com/en/news/2016/11/25/1249979/imo-eyes-iran-s-partnership-in-making-maritime-regulations> Secretary-General of the International Maritime Organization (IMO) Kitack Lim hailed Iran's strategic position in the region, voicing the UN agency's readiness to get help from Tehran in devising maritime regulations, Iran's ambassador to Britain announced.

IMO's 'Mr Smooth' insists shipping will weather year's political storms. By Terry Macalister. *TradeWinds* [Online]. 24 November 2016. Available from: <http://goo.gl/I7109B> Whatever else, Kitack Lim is a deft hand at the sustained charm offensive.

Oceanic calls for IMO action on HFCs. *Marine Propulsion & Auxiliary Machinery* [Online]. 28 November 2016. Available from: http://www.mpropulsion.com/news/view_oceanic-calls-for-imo-action-on-hfcs_45603.htm Marine refrigeration specialist Oceanic Technical Solutions has welcomed the recent decision by the United Nations to amend the Montreal Protocol to reduce the use of hydrofluorocarbons (HFCs) in air conditioning and refrigeration systems, but has warned the shipping industry could be left behind other sectors if IMO fails to implement similar measures.

LAW AND POLICY

High Seas Conservation Is a Priority for Pacific Island Leaders. By Liz Karan.

Pew Charitable Trusts [Online]. 1 November 2016. Available from: <http://www.pewtrusts.org/en/research-and-analysis/analysis/2016/11/01/high-seas-conservation-is-a-priority-for-pacific-island-leaders> The Pacific islands spread across a vast swath of ocean, with few airports and many time zones between them, but they have one critical thing in common: dependence on the ocean and the environment for economic independence and food security.

Commentary: What Are Feasible Scenarios for the New Blue Deal on High Seas Fisheries? By Rachma Indriyani, Faculty of Law, Sebelas Maret University (UNS). *Jakarta Globe* [Online]. 1 November 2016. Available from: <http://jakartaglobe.id/opinion/commentary-feasible-scenarios-new-blue-deal-high-seas-fisheries/> Currently, negotiating a new treaty aimed at overhauling the antiquated high seas legal regime has been resumed by the United Nations.

Putting human rights at sea on the supply chain map. By Dr Alex Channer, Principal Analyst, Human Rights. *Verisk Maplecroft* [Online]. 31 October 2016. Available from: <https://maplecroft.com/portfolio/new-analysis/2016/10/31/putting-human-rights-sea-supply-chain-map/> At any one time in a year, 90,000 cargo ships are carrying around 80% of all global trade across the world's oceans.

Dubai sets up Emirates Maritime Arbitration Centre to handle disputes as shipping sector growth slows. By Shane McGinley. *Thomson Reuters Zawya* [Online]. 3 November 2016. Available from: http://www.zawya.com/mena/en/story/Dubai_sets_up_arbitration_centre_to_handle_maritime_disputes-ZAWYA20161103054255/ Dubai On Wednesday launched a special arbitration centre dedicated to resolving disputes in the maritime sector, which is seeing a slowdown globally due to low oil prices and challenging economic conditions.

India, Norway joint working group meet to strengthen maritime ties. *Business Standard (India)* [Online]. 6 November 2016. Available from: <http://goo.gl/F6g48X> The fifth meeting of the joint working group-maritime between Norway and India recently took place aimed at exploring possible areas of cooperation such as energy efficient ship design and building.

B.C. gives Ottawa its demands for "world leading" ocean oil spill response. By Rob Shaw. *Vancouver Sun (Canada)* [Online]. 7 November 2016. Available from: <http://vancouver.sun.com/news/politics/b-c-gives-ottawa-its-demands-for-world-leading-ocean-oil-spill-response> British Columbia is asking the federal government for millions in new ocean spill-response vessels, bases, training and tracking systems as a condition of the province's potential support for the Kinder Morgan oil pipeline expansion project.

Moratorium on crude oil tanker traffic coming soon: Garneau. By Catharine Tunney. *Canadian Broadcasting Corporation (CBC)* [Online]. 4 November 2016. Available from: <http://www.cbc.ca/news/politics/moratorium-oil-tankers-1.3836536> Federal Transportation Minister Marc Garneau is promising a moratorium on crude oil tanker traffic off British Columbia's North Coast by the end of this year, which would coincide with the government's cabinet decision on the Kinder Morgan Trans Mountain pipeline expansion project.

South Korea Cracks Down on Illegal Chinese Fishing, With Violent Results. By Lyle J. Morris, Senior Project Associate, RAND Corporation. *The Diplomat* [Online]. 3 November 2016. Available from: <http://thediplomat.com/2016/11/south-korea-cracks-down-on-illegal-chinese-fisherman-with-violent-results/> Tensions between China and South Korea intensify over illegal fishing, with the Korea Coast Guard raising the stakes.

The Prime Minister of Canada announces the National Oceans Protection Plan. *Government of Canada* [Online]. 7 November 2016. Available from: <http://pm.gc.ca/eng/news/2016/11/07/prime-minister-canada-announces-national-oceans-protection-plan> Whether facing the Atlantic, Pacific or Arctic oceans, the health and protection of our coasts are critical to our environment, our economy, and to all Canadians.

Mobile Phones Aid in Criminalization of Masters. *Maritime Executive* [Online]. 7 November 2016. Available from: <http://maritime-executive.com/editorials/mobile-phones-aid-in-criminalization-of-masters> The threat of going to jail while doing his job, remain a major pressure for masters of merchant ships - and the situation is getting worse.

International body holds National Maritime Transport Policy seminar in Seychelles. *Seychelles Nation* [Online]. 12 November 2016. Available from: <http://www.nation.sc/article.html?id=251779> The International Maritime Organisation (IMO) has conducted a National Maritime Transport Policy (NMTP) seminar for Seychelles.

'Legal oceanographer' contributes to oil pollution preparedness in Canada's Arctic. By Anna-Maria Hubert and Sam Bogetti. *University of Calgary (Canada)* [Online]. 15 November 2016. Available from: <http://www.ucalgary.ca/utoday/issue/2016-11-15/legal-oceanographer-contributes-oil-pollution-preparedness-canadas-arctic> Alberta is one of only two Canadian provinces not adjacent to one of Canada's three vast coastlines.

Thousands of Chinese ships trawl the world, so how can we stop overfishing? By Charles Clover. *The Guardian* [Online]. 15 November 2016. Available from: <http://goo.gl/KiX56q> When I was in Senegal in 2003, the few Chinese vessels fishing along the coast from Mauritania to Liberia were unseaworthy rust-buckets, existing off what licences they could cadge.

COP22 Side Event Highlights Economic Importance of Resilient Oceans. By Ellen Asermely. *Morocco World News* [Online]. 14 November 2016. Available from: <https://www.morocoworldnews.com/2016/11/201350/> An event held by the Moroccan Agriculture Minister at COP22 this weekend on the topic of Africa in Action for Fisheries and Agriculture in the Context of Climate Change focused on sustainable growth in the maritime industry, or Blue Growth.

Ocean Climate Action Making Waves : Global Climate Action at COP22. *United Nations Framework Convention on Climate Change (UNFCCC)* [Online]. 12 November 2016. Available from: <http://newsroom.unfccc.int/climate-action/ocean-climate-action-making-waves> A special Oceans Action Event at the UN Climate Change Conference in Marrakech (COP22) is bringing together over 400 high-level participants from around the world to advance oceans and climate change issues and to pledge concrete actions in support of the objectives of Sustainable Development Goal number 14, which is to conserve and sustainably use the oceans, seas and marine resources.

AoS leads action against fishing slavery. *Apostleship of the Sea (AoS)* [Online]. 17 November 2016. Available from: <http://www.apostleshipofthesea.org.uk/aos-leads-action-against-fishing-slavery> The Vatican has asked Catholic charity Apostleship of the Sea (AoS) to take the lead in tackling trafficking and exploitation of fishermen.

West Africa to end piracy for economic growth. By Hauwa Mustapha. *Voice of Nigeria (VON)* [Online]. 16 November 2016. Available from: <http://von.gov.ng/ecowas-eradicates-maritime-piracy-economy-grow/> The Director General of the Nigerian Maritime Administration and Safety Agency, NIMASA, Dr. Dakuku Peterside has charged member states of the Economic Community of West African States (ECOWAS) to end piracy in the sub region in order to grow the economy.

Vietnam expanding South China Sea runway: U.S. think tank. By David Brunnstrom. *Reuters* [Online]. 18 November 2016. Available from: <http://www.reuters.com/article/us-southchinasea-vietnam-idUSKBN13C2TH> Vietnam is extending a runway on an island it claims in the South China Sea in apparent response to China's building of military facilities on artificial islands in the region, a U.S. think tank reported.

Be abreast of trends in maritime sector — CJ urges judges. By Amelia Ennin Abbey. *Graphic Online (Ghana)* [Online]. 19 November 2016. Available from: <http://www.graphic.com.gh/news/general-news/be-abreast-of-trends-in-maritime-sector-cj-urges-judges.html> The Chief Justice, Mrs Theodora Georgina Wood, has urged judges to be abreast of trends in the maritime sector for them to effectively arbitrate disputes in the area.

Ports of Los Angeles and Long Beach unveil bold strategies to reduce greenhouse gases and clean the air. *Port of Los Angeles* [Online]. 18 November 2016. Available from: https://www.portoflosangeles.org/newsroom/2016_releases/news_111816_CAAP_Meeting_Release.asp Aggressively deploying zero and near-zero emission trucks and cargo-handling equipment and expanding programs that reduce ship emissions are among the core strategies the ports of Los Angeles and Long Beach are proposing for the next version of San Pedro Bay Ports Clean Air Action Plan (CAAP).

Britain to focus more on engagement with the IMO, says Hayes. By Max Tingyao Lin. *Lloyd's List* [Online]. 18 November 2016. Available from: <https://www.lloydslist.com/ll/sector/regulation/article543168.ece> Shipping minister emphasises that Brexit could allow re-evaluation of orthodox thinking

Address for UK's Inaugural Commonwealth Marine Economies Programme. UK Government [Online]. 22 November 2016. Available from: <https://www.gov.uk/government/speeches/address-for-uks-inaugural-commonwealth-marine-economies-programme> Address for the Inauguration of the UK's Commonwealth Marine Economies Programme: Pacific Regional Workshop, 22 November 2016.

Senior Officer Of Italian Oil Tanker Sentenced To Eight Months In Prison For Concealing Discharge Of Oily Waste. *US Department of Justice* [Online]. 21 November 2016. Available from: <https://www.justice.gov/usao-nj/pr/senior-officer-italian-oil-tanker-sentenced-eight-months-prison-concealing-discharge-oily> A senior engineering officer employed by an Italian shipping company was sentenced today to eight months in prison for deliberately concealing a vessel's discharge of oily waste into the sea, U.S. Attorney Paul J. Fishman announced.

Navigating the new UAE maritime laws. By Tarek Saad, Counsel and Amir Alkhaja, Associate, Baker & McKenzie Habib Al Mulla, UAE Maritime Practice. *Arabian Supply Chain* [Online]. 21 November 2016. Available from: <http://www.arabiansupplychain.com/article-12856-comment-navigating-the-new-uae-maritime-laws/> The UAE government is looking to diversify the nation's economy and become less dependent on oil revenues in the near future.

Nigeria's maritime law is outdated, says CISN chief. *Hellenic Shipping News* [Online]. 21 November 2016. Available from: <http://www.hellenicshippingnews.com/nigerias-maritime-law-is-outdated-says-cisn-chief/> The new President, Certified Institute of Shipping Nigeria (CISN), Princess Victoria Haastруп, has described the Nigerian Ports Authority Act as outdated.

Ship detained as accident probe begins. By Wahyoe Boediwardhana and Andi Hajramurni. *Jakarta Post* [Online]. 22 November 2016. Available from: <http://www.thejakartapost.com/news/2016/11/22/ship-detained-accident-probe-begins.html> The local authorities in Surabaya, East Java, have prohibited Vietnamese-flagged freighter *MV Thaison 4* from leaving Indonesian waters as part of an ongoing investigation into a collision between the ship and an Indonesian fishing boat that left at least three people dead.

MT Orkim Harmony hijack: Two gets 18 years jail, six slapped with 15 years and 5 rotan strokes. By Chuah Bee Kim. *New Straits Times Online (Malaysia)* [Online]. 27 November 2016. Available from: <http://www.nst.com.my/news/2016/11/192265/mt-orkim-harmony-hijack-two-gets-18-years-jail-six-slapped-15-years-and-5-rotan> Two Indonesians involved in the hijack of Malaysian tanker *MT Orkim Harmony* have been sentenced to 18 years jail each by the Sessions Court, while another six Indonesian men were sentenced to 15 years and five strokes each when they pleaded guilty to armed robbery here, today.

EU said to be happier over IUU fishing. By Apinya Wipatayotin. *Bangkok Post* [Online]. 27 November 2016. Available from: <http://www.bangkokpost.com/archive/news/1145297> The Command Centre for Combating Illegal Fishing on Saturday insisted it had made a big effort to solve the country's fishing problems and bring the industry into line with European Union standards.

Climate Engineering under the Paris Agreement: A Legal and Policy Primer. By A.Neil Craik and Will Burns. *Centre for International Governance Innovation (CIGI)* [Online]. 1 November 2016. Available from: <https://www.cigionline.org/publications/climate-engineering-under-paris-agreement-legal-and-policy-primer> While the Paris Agreement does not address the issue of climate engineering expressly, the target of limiting global average temperature rise to no more than 2°C (a goal that appears unlikely to be achieved in the absence of significant amounts of carbon removal) raises questions with respect to how the issue of carbon dioxide removal and solar radiation management technologies may be addressed under the Paris Agreement. [Climate Engineering under the Paris Agreement](#) 

Sea strangulation a real risk warns Nautilus. *Nautilus International* [Online]. 28 November 2016. Available from: <https://nautilusint.org/en/what-we-say/nautilus-news/sea-strangulation-a-real-risk-warns-nautilus/> Britain is at risk of 'sea strangulation' as a result of the dramatic decline of its Merchant and Royal Navies, the maritime union Nautilus International has warned a Parliamentary watchdog.

UK Government to enact Order increasing the limits of liability under the 1996 Protocol to the Convention on Limitation of Liability for Maritime Claims 1976, November 2016.

Holman Fenwick Willan (HFW) [Online]. November 2016. Available from:

<http://www.hfw.com/UK-Government-to-enact-Order-increasing-the-limits-of-liability-November-2016> On 19 April 2012, the Legal Committee of the International Maritime Organization (IMO) agreed to amend the limits under the 1996 Protocol to the Convention on Limitation of Liability for Maritime Claims 1976 (LLMC 1976), and in many Contracting States the revised limits entered into force on 8 June 2015 under the tacit acceptance procedure.

Four routes to better maritime governance. By Zheng Wan, Jihong Chen, Abdel El Makhoulfi, Daniel Sperling, and Yang Chen. *Nature* [Online]. 28 November 2016. Available from: <http://www.nature.com/news/four-routes-to-better-maritime-governance-1.21051> Sea freight carries more than 90% of global trade - and thousands of unwelcome passengers.

SIU Applauds Choice of Elaine Chao for DOT. *Seafarers International Union* [Online]. 29 November 2016. Available from:

<http://seafarers.org/news/2016/Q4/ElaineChaoNominatedForDOT.htm> The Seafarers International Union has warmly welcomed the news that President-Elect Donald Trump has named Elaine L. Chao to be the next United States Secretary of Transportation.

Russian court recovers \$5 mln from ship owner for oil spill near Sakhalin coast. *Russian Legal Information Agency (RAPSI)* [Online]. 30 November 2016. Available from:

http://www.rapsinews.com/judicial_news/20161130/277246903.html The Sakhalin Regional Commercial Court has ruled in favour of the Russian environmental watchdog agency Rospirodnadzor, which lodged a lawsuit against a ship owner seeking to recover damage to environment resulting from an oil spill near the island of Sakhalin in the amount of 329.1 million rubles (about \$5 million), the agency's records show on Wednesday.

Appeals Tribunal upholds AMSA ship detention. *Australian Maritime Safety Authority (AMSA)* [Online]. 30 November 2016. Available from:

https://www.amsa.gov.au/media/documents/30112016_Mediarelease_AATupholdsAMSAdetentionofOOCLLeHavre.pdf The Australian Maritime Safety Authority's decision to detain a Hong Kong flagged container ship which dumped food waste in close proximity to Fraser Island in May was affirmed by the Administrative Appeals Tribunal at a hearing on Friday, 25 November 2016.

MARINE TECHNOLOGY

Would Autonomous Ships Be Good for Society? By Captain George Quick, VP, Pilot Membership Group, International Organization of Masters, Mates & Pilots. *Maritime Executive* [Online]. 31 October 2016. Available from:

<http://maritime-executive.com/editorials/would-autonomous-ships-be-good-for-society> There has been a good deal of discussion recently suggesting that unmanned, autonomous ships represent the future of the maritime industry.

Automated Ships Ltd and KONGSBERG to build first unmanned and fully-automated vessel for offshore operations. *Kongsberg Maritime* [Online]. 1 November 2016. Available from:

<https://www.km.kongsberg.com/ks/web/nokbq0238.nsf/AllWeb/65865972888D25FAC125805E00281D50?OpenDocument> The UK's Automated Ships Ltd and Norway's Kongsberg Maritime have signed a Memorandum of Understanding to build the world's first unmanned and fully-automated vessel for offshore operations.

Scrubbing Up: Weekly Tanker Market Report. *Gibson Shipbrokers* [Online]. 4 November 2016. Available from: <http://www.gibsons.co.uk/files/469.pdf> Last week the IMO's Marine Environment Protection Committee (MEPC) met to set the implementation date to reduce the global sulphur content of bunker fuels at 0.5% from 2020, down from 3.5% (outside existing emission control areas) today.

Deltamarin designers think out-of-the-box to envision future ships. *Deltamarin Ltd* [Online]. 3 November 2016. Available from: <https://www.deltamarin.com/2016/11/deltamarin-designers-envision-future-ships/> With the help of Deltamarin's cutting-edge expertise and open-mindedness, the company is constantly creating unique and useful solutions for its customers.

Rolls-Royce and VTT Technical Research Centre form a strategic partnership to develop smart ships. *VTT Technical Research Centre of Finland Ltd* [Online]. 14 November 2016. Available from: <http://www.vttresearch.com/media/news/rolls-royce-and-vtt-technical-research-centre-form-a-strategic-partnership-to-develop-smart-ships> Rolls-Royce and VTT Technical Research Centre of Finland Ltd have announced a strategic partnership to design, test and validate the first generation of remote and autonomous ships.

MacGregor hackathon - Hack the sea - created novel safety and efficiency concepts for the maritime industry. *Cargotec* [Online]. 14 November 2016. Available from: <http://goo.gl/f9SpDt> MacGregor, part of Cargotec, organised its first hackathon "Hack the sea" on 11-13 November 2016 at the Interschalt Maritime Education & Training Centre, in Schenefeld, Germany.

MERCMARINE's State-of-the-art Navigational Technology. *Ceylon Today (Sri Lanka)* [Online]. 13 November 2016. Available from: <http://www.ceylontoday.lk/print20161101CT20161231.php?id=9206> With increasing development of the maritime sector and growing interest in global seafaring, Sri Lanka is grooming hundreds of young merchant seafarers to meet the demands of the industry.

Iceberg patrol gains faster updates from orbit. *European Space Agency (ESA)* [Online]. 9 November 2016. Available from: http://www.esa.int/Our_Activities/Observing_the_Earth/Iceberg_patrol_gains_faster_updates_from_orbit The international iceberg patrol service set up after the sinking of the *Titanic* is now able to track drifting ice from orbit more swiftly through ESA-backed cloud computing.

Real-time Measurement of Oil in Arctic Area Conditions. *Hydro International* [Online]. 15 November 2016. Available from: <https://www.hydro-international.com/content/news/real-time-measurement-of-oil-in-artic-area-conditions> A smart navigation ice buoy system has been installed for test use near the Neste Refinery in Porvoo, in the Arctic area of Finland, in October 2016.

Brit Company Awarded Euro Drone Contract [to monitor pollution in Europe's waters]. *Martek Marine* [Online]. 23 November 2016. Available from: <https://www.martek-marine.com/blog/brit-company-awarded-euro-drone-contract/> Global maritime technology innovator, Martek Marine, have been included on a ground breaking framework contract by the European Maritime Safety Agency for Remotely Piloted Aircraft Systems services in the maritime environment.

MOL Launches "ISHIN NEXT - MOL SMART SHIP PROJECT -": Enhancing Business Strengths and Increasing Corporate Value. *Mitsui O.S.K.Lines Ltd.(MOL)* [Online]. 24 November 2016. Available from: <http://www.mol.co.jp/en/pr/2016/16070.html> Through the project, MOL will share its technological development policies with customers and other stakeholders, and therefore collect diversified needs and various seeds of technologies.

Carbon War Room Announces Launch of New Free Ship Operational Efficiency Portal.

Ship & Bunker [Online]. 30 November 2016. Available from:

<http://shipandbunker.com/news/world/699207-carbon-war-room-announces-launch-of-new-free-ship-operational-efficiency-portal> Carbon War Room (CWR) today announced that it, along with exactEarth and University Maritime Advisory Service (UMAS), have launched a free-to-access ship operational efficiency portal on ShippingEfficiency.org, known as BetterFleet.

Shipmanagement heads to the cloud. *Marine Electronics and Communications* [Online].

29 November 2016. Available from: http://www.marinemec.com/news/view,shipmanagement-heads-to-the-cloud_45611.htm Cloud services have become the main host for a series of fleet management, ship monitoring and crew management solutions.

MARITIME SAFETY

South Africa: Urgent stowaway advice. *Swedish Club* [Online]. 2 November 2016. Available

from: <https://www.swedishclub.com/main.php?mcid=1&mid=109&pid=19&newsid=1807>

Stowaways boarding vessels in South African ports have increased significantly over the last two months. [Loss Prevention: Stowaways in South African Ports](#) 

Lifejackets: a review. *UK Marine Accident Investigation Branch (MAIB)* [Online]. 3 November

2016. Available from: <https://www.gov.uk/government/publications/lifejackets-a-review> The purpose of this document is to evaluate the success of initiatives aimed at encouraging commercial fishermen to wear PFDs on the working decks of fishing vessels while at sea.

Lost shipping containers trigger warning for Vancouver Island mariners. **By Mike**

Laanela. *Canadian Broadcasting Corporation (CBC)* [Online]. 11 November 2016. Available from: <http://www.cbc.ca/news/canada/british-columbia/lost-shipping-containers-trigger-warning-for-vancouver-island-mariners-1.3847262> Dozens of empty containers that fell off a cargo ship near the south end of Vancouver Island could pose a hazard to boats and shipping traffic, coast guard officials are warning.

Need for coordination stressed to counter disasters at sea. *The Nation (Nigeria)* [Online].

15 November 2016. Available from: <http://nation.com.pk/karachi/15-Nov-2016/need-for-coordination-stressed-to-counter-disasters-at-sea> Vice Admiral and Commander of Pakistan Fleet Syed Arifullah Hussaini has laid stress on coordination among all stakeholders to counter disasters at the sea.

MOL 'Tabletop Drill' Prepares for Serious Marine Incident - Scenario has Iron Ore Carrier Colliding with Breakwater, Stranded. *Mitsui O.S.K.Lines Ltd.(MOL)* [Online]. 17 November

2016. Available from: <http://www.mol.co.jp/en/pr/2016/16067.html> Mitsui O.S.K. Lines, Ltd. (MOL; President & CEO: Junichiro Ikeda) today announced that the company conducted a tabletop drill based on a scenario in which an iron ore carrier, managed by its group ship management company, collided with a breakwater, leaving it stranded in the Port of Kashima.

World's biggest oil survey ship flouts safety law in NZ waters during 7.8 earthquake.

Greenpeace [Online]. 17 November 2016. Available from: <http://www.greenpeace.org/new-zealand/en/press/Worlds-biggest-oil-survey-ship-flouts-safety-law-in-NZ-waters-during-7-8-earthquake/> Upon its arrival in New Zealand waters, the world's largest seismic surveying ship turned off transmission from its mandatory AIS safety device, including throughout the devastating 7.8 magnitude earthquake that hit early on Monday morning and the subsequent tsunami threat.

Are Safety Management Systems Worthwhile? By Tony Munoz. *Maritime Executive* [Online]. 18 November 2016. Available from: <http://www.maritime-executive.com/editorials/are-safety-management-systems-worthwhile> Safety Management Systems (SMSs) have been around since the 1990s with the establishment of the ISM Code.

'Spot The Hazard' Safety Posters Issued Throughout the Industry in Drive to Promote Hazard Awareness. *International Chamber of Shipping (ICS)* [Online]. 21 November 2016. Available from: <http://www.ics-shipping.org/news/press-releases/2016/11/21/-spot-the-hazard-safety-posters-issued-throughout-the-industry-in-drive-to-promote-hazard-awareness> As part of a major initiative to promote hazard awareness throughout the shipping industry, the International Chamber of Shipping (ICS) and The Standard Club have issued free safety posters to shipping companies worldwide.

Incident Alert on Increasing Cases of Abduction of Crew from Ships. *ReCAAP* [Online]. 21 November 2016. Available from: http://www.recaap.org/DesktopModules/Bring2mind/DMX/Download.aspx?Command=Core_Download&EntryId=463&PortalId=0&TabId=78 The ReCAAP ISC is deeply concerned about the situation of abduction of crew from ships while underway in the Sulu-Celebes Sea and eastern Sabah region.

EMSA's Best Practice Guidance on the Inventory of Hazardous Materials. *European Maritime Safety Agency (EMSA)* [Online]. 25 November 2016. Available from: <http://www.emsa.europa.eu/news-a-press-centre/external-news/item/2874-emsas-best-practice-guidance-on-the-inventory-of-hazardous-materials.html> This document provides best practice guidance and a harmonised approach to the development and maintenance of inventories of hazardous materials in accordance with Article 5 and Article 12 of the Regulation (EU) 1257/2013 of the European Parliament and the Council on ship recycling. [EMSA Guidance on IHM](#)

UK and Scottish governments announce historic agreement on maritime safety. By The Rt Hon John Hayes CBE MP. *UK Department for Transport* [Online]. 29 November 2016. Available from: <https://www.gov.uk/government/news/uk-and-scottish-governments-announce-historic-agreement-on-maritime-safety> The UK and Scottish governments have today (29 November 2016) agreed a memorandum of understanding (MoU) which sets out how the Maritime and Coastguard Agency (MCA) will consult with Scottish government ministers about the agency's strategic priorities in Scotland.

MARITIME SECURITY

Indonesia, Singapore discuss shipping security at Malacca Strait. *Antara News (Indonesia)* [Online]. 3 November 2016. Available from: <http://www.antaraneews.com/en/news/107532/indonesia-singapore-discuss-shipping-security-at-malacca-strait> Officials from Indonesia and Singapore met here on Wednesday to discuss shipping security in the Malacca-Singapore Straits.

Boat that attacked gas tanker off Yemen carried explosives: shipowner. By Jonathan Saul. *Reuters* [Online]. 3 November 2016. Available from: <http://www.reuters.com/article/us-yemen-shipping-attack-idUSKBN12Y2L3> Unknown assailants who opened fire on a gas tanker last week off the coast of Yemen were also carrying a "substantial amount of explosives", the vessel's owner said on Thursday, and a maritime source said it may have been an attempted suicide attack.

Private Maritime Security with Active Duty Personnel. *Maritime Executive* [Online]. 11 November 2016. Available from: <http://www.maritime-executive.com/article/private-maritime-security-but-with-government-forces> A Cyprus-based security firm, Diaplous Maritime Services, has announced a new Nigerian division offering private maritime security services – provided in conjunction with the Nigerian Navy.

Royal Marines sniper brings six-hour drugs chase to end as Wave Knight delivers £40m blow to traffickers. *Royal Navy (UK)* [Online]. 11 November 2016. Available from: <http://www.royalnavy.mod.uk/news-and-latest-activity/news/2016/november/11/161111-wave-knight-drugs-bust> More than a dozen rounds of precisely-aimed sniper fire across the bow of a go-fast speedboat as a dramatic six-hour chase across the Caribbean reaches its climax – and more than £40m of cocaine never reaches its destination.

Ghana Adopts And Signs New AU Charter On Maritime Security, Safety and Development. *Business Day (Ghana)* [Online]. 10 November 2016. Available from: <http://businessdayghana.com/ghana-adopts-signs-new-au-charter-maritime-security-safety-development/> Ghana alongside other African Union member states have adopted and signed the new charter on maritime security, safety and development.

Interpol agrees to apply I-Checkit for maritime security. *Antara News (Indonesia)* [Online]. 10 November 2016. Available from: <http://www.antaraneews.com/en/news/107727/interpol-agrees-to-apply-i-checkit-for-maritime-security> The International Polices (Interpols) General Assembly has agreed to expand the I-Checkit program for maritime industry in an attempt to improve border security and passengers surveillance.

Questions over the floating armouries: Floating armoury controversy – Part II. *The Island (Sri Lanka)* [Online]. 9 November 2016. Available from: http://www.island.lk/index.php?page_cat=article-details&page=article-details&code_title=155232 By 2012, the number of firearms of foreign maritime security companies coming into the Galle naval armoury for storage had increased exponentially.

SL's foray into the maritime security industry: Floating armoury controversy – Part I. *The Island (Sri Lanka)* [Online]. 8 November 2016. Available from: http://www.island.lk/index.php?page_cat=article-details&page=article-details&code_title=155192 Though much has been said and written in the past two years about the opaque operations of Avant Garde Maritime Services, most people know little or nothing of what it was all about – a classic case of a controversy creating more confusion than enlightenment.

East Asia Summit Seminar on Maritime Security Cooperation. *Australian Government* [Online]. 24 November 2016. Available from: <https://news.defence.gov.au/media/media-releases/east-asia-summit-seminar-maritime-security-cooperation> This week the governments of Australia and Indonesia co-hosted a multilateral forum on Maritime Security Cooperation in Sydney, under the auspices of the East Asia Summit (EAS).

8 years after 26/11, government says register all seagoing vessels. By Dipak K.Dash. *Economic Times (India)* [Online]. 25 November 2016. Available from: <http://economictimes.indiatimes.com/articleshow/55614370.cms> In an effort to ensure there is no repeat of a 26/11-type terrorist attack, all seagoing vessels, including fishing boats, will have to be registered with the authorities concerned, according to the to the Merchant Shipping Bill, which was cleared by Cabinet on Wednesday.

Cyber-security issues will delay move to autonomous ships. By Marcus Hand. *Seatrade Maritime News* [Online]. 28 November 2016. Available from: <http://www.seatrade-maritime.com/news/europe/cyber-security-issues-will-delay-move-to-autonomous-ships.html> Autonomous ships will not become a mainstream reality in the next few years due to unresolved cyber-security issues on the technology believes Lar Jensen ceo of CyberKeel.

China calls for concerted efforts to strengthen maritime security. *Xinhuanet (China)* [Online]. 29 November 2016. Available from: http://news.xinhuanet.com/english/2016-11/29/c_135864983.htm China on Monday called on countries to join hands in strengthening maritime security and overcoming the challenges and threats faced at sea.

Change is in the air. By Malcolm Latache. *ShipInsight* [Online]. 30 November 2016. Available from: <https://www.shipinsight.com/change-is-in-the-air/> It may seem a long time ago now – although it is just 15 years – when the IMO temporarily switched its focus from safety to security following the 9/11 destructive terrorist attack in the US.

MARITIME TRAINING

Opinion: How do your latest simulators improve LNG crew know-how? *Marine Electronics and Communications* [Online]. 11 November 2016. Available from: http://www.marinemec.com/news/view/opinion-how-do-your-latest-simulators-improve-lng-crew-knowhow_45399.htm LNG World Shipping asks the experts how improved software packages are training LNG crew to work more safely and efficiently

Use Training to Direct the Future of Shipping says ICS Chairman. *International Chamber of Shipping (ICS)* [Online]. 15 November 2016. Available from: <http://www.ics-shipping.org/news/press-releases/2016/11/15/use-training-to-direct-the-future-of-shipping-says-ics-chairman> Training acts not only as a career enhancer, but also plays an essential role in the modernisation of the shipping industry as a whole, said Esben Poulsson, Chairman of the International Chamber of Shipping (ICS) today, as he delivered the keynote speech at this year's Crew Connect Global Conference in Manila.

Seychelles' officials gain accident investigation skills at maritime training. By Patsy Athanase and Sharon Uranie. *Seychelles News Agency* [Online]. 15 November 2016. Available from: <http://www.seychellesnewsagency.com/articles/6275> Seychelles is benefitting from training offered by the International Maritime Organization (IMO) on the best way to go about investigating marine accidents.

8th Maritime Employee Survey results available now. *Halcyon Recruitment* [Online]. 2017. Available from: <http://www.halcyonrecruitment.com/news/article.aspx?ArticleID=64> More shore-based employees in the shipping industry are concerned with their job security than ever before according to research conducted by leading international maritime jobs specialist Halcyon Recruitment and online training provider Coracle. [Survey Conducted July-Sep 2016](#) 

Senate Ignores Amaechi, Maritime University Bills Pass Second Reading. By Omololu Ogunmade. *This Day (Nigeria)* [Online]. 17 November 2016. Available from: <http://www.thisdaylive.com/index.php/2016/11/17/senate-ignores-amaechi-maritime-university-bills-pass-second-reading/> Sponsored by Senators Nelson Effiong (Akwa Ibom South) and James Manager (Delta South) respectively, Effiong's bill seeks to upgrade the existing Maritime Academy of Nigeria (MAN), Oron to a university while that of Manager seeks to establish a maritime university in Okerenkoko.

DNV GL, RCCL and the University of Strathclyde launch new Maritime Safety Research Centre. By Nikos Späth. *DNV GL* [Online]. 18 November 2016. Available from: <https://www.dnvgl.com/news/dnv-gl-rccl-and-the-university-of-strathclyde-launch-new-maritime-safety-research-centre-80719> The Maritime Safety Research Centre was officially opened this week by the IMO Secretary General Kitack Lim, who looked at how the MSRC could play a role in the shift of maritime safety from empirical to risk-informed legislation and goal-based standards.

Sergei Baryshnikov: "Operational training should be performed by dedicated educational institutions". By Nadezhda Malysheva. *Port News* [Online]. 25 November 2016. Available from: <http://en.portnews.ru/comments/2239/> The merger of Moscow State Academy of Water Transport (MSAWT) into Admiral Makarov State University of Maritime and Inland Shipping, the largest educational institution in Russia's water transport sector, is nearing completion.

Mariners step up gap training to meet new STCW deadline. By Gary Wollenhaup. *Professional Mariner* [Online]. 30 November 2016. Available from: <http://www.professionalmariner.com/December-January-2017/Mariners-step-up-gap-training-to-meet-new-STCW-deadline/> Mariners face another deadline to remain compliant with the updated Standards of Training, Certification and Watchkeeping for Seafarers (STCW).

Traditional Training Counters Over-Reliance on Technology. *Maritime Executive* [Online]. 30 November 2016. Available from: <http://maritime-executive.com/editorials/traditional-training-counters-over-reliance-on-technology> Addressing delegates at the 4th Asian Marine Insurance Conference, BraemarSA's Far-East Regional Director, Graeme Temple spoke of the root causes of machinery damage, citing a lack of focus on traditional training as a major concern.

MIGRANTS

Taming the Seas: Safety, Protection, and Attempts to Create Order in Maritime Migration Corridors. *Migration Policy Institute (MPI)* [Online]. 27 October 2016. Available from: <http://www.migrationpolicy.org/events/taming-seas-safety-protection-and-attempts-create-order-maritime-migration-corridors>  In recent years, dramatic images of migration-struggling boats crammed dangerously beyond capacity; two sisters, champion swimmers, towing their foundering boat to safety; a little boy's body lying face down in the sand-have seized worldwide attention and catapulted unauthorized maritime migration onto national and international policy agendas.

Refugee crisis: European leaders blamed for record high deaths in the Mediterranean. By Lizzie Dearden. *The Independent* [Online]. 2 November 2016. Available from: <http://www.independent.co.uk/news/uk/home-news/refugee-crisis-closing-borders-people-smugglers-human-trafficking-mediterranean-deaths-record-a7391736.html>  Britain and other European nations are making the refugee crisis worse by forcing people fleeing conflict and persecution to undertake covert and treacherous journeys, a report has found.

Destination Europe? MEDMIG [Online]. 2 November 2016. Available from: <http://www.medmig.info/research-brief-destination-europe/> In 2015 an estimated 1,011,712 refugees and migrants crossed the Mediterranean to Europe in search of safety and a better life. [Destination Europe: Understanding the dynamics and drivers of Mediterranean migration in 2015: Final Report November 2016](#) 

Migrant crisis: 'Hundreds dead' in shipwrecks off Libya. *BBC News* [Online]. 3 November 2016. Available from: <http://www.bbc.co.uk/news/world-africa-37861700> More than 200 migrants are believed drowned in two shipwrecks off the coast of Libya, migration officials say.

Migrant Deaths at Sea Near Deadly Milestone of 4,000. *International Organization for Migration (IOM)* [Online]. 1 November 2016. Available from: <http://www.iom.int/news/migrant-deaths-sea-near-deadly-milestone-4000> IOM reports that almost 4,000 migrants and refugees have died or gone missing so far in 2016 (up to 30/10).

More than 2,200 migrants rescued in Mediterranean, 10 bodies recovered. *By Agnieszka Flak. Reuters* [Online]. 6 November 2016. Available from: <http://www.reuters.com/article/us-europe-migrants-italy-idUSKBN1300RV> More than 2,200 migrants were rescued in the Mediterranean on Saturday as they tried to reach Europe and 10 bodies were recovered, Italy's coast guard said in a statement.

725 More Mediterranean Migrant Deaths Than This Period Last Year. *International Organization for Migration (IOM)* [Online]. 4 November 2016. Available from: <http://www.iom.int/news/725-more-mediterranean-migrant-deaths-period-last-year> This is after 240 migrants went missing and are presumed dead after two shipwrecks on Wednesday (02/11) in the Mediterranean between Libya and Italy.

Rescuers pick up 1 body, save 298 amid heavy seas: Italy coast guard. *By Isla Binnie and Steve Scherer. Reuters* [Online]. 15 November 2016. Available from: <http://www.reuters.com/article/us-europe-migrants-italy-idUSKBN13A0TL> Rescuers recovered one body and saved 298 people in the Mediterranean on Tuesday amid poor weather conditions, a day after a rubber boat with an unknown number of people flipped in heavy seas, Italy's coast guard said.

Mediterranean Migrant Arrivals Reach 341,055; Deaths at Sea: 4,271. *International Organization for Migration (IOM)* [Online]. 15 November 2016. Available from: <http://www.iom.int/news/mediterranean-migrant-arrivals-reach-341055-deaths-sea-4271> IOM reports that 341,055 migrants and refugees entered Europe by sea in 2016 through 13 November, arriving mostly in Greece and Italy.

1,000 More Migrant Deaths in Mediterranean Compared to Same Period Last Year. *International Organization for Migration (IOM)* [Online]. 18 November 2016. Available from: <http://www.iom.int/news/1000-more-migrant-deaths-mediterranean-compared-same-period-last-year> IOM reports that an estimated 350 migrants are missing, presumed dead after at least six incidents in the Mediterranean in the past three days.

Maersk Product Tanker Saves 23 Migrants. *Maritime Executive* [Online]. 16 November 2016. Available from: <http://www.maritime-executive.com/article/maersk-product-tanker-saves-23-migrants> On Monday, the product tanker *Maersk Erin* saved 23 migrants from a capsized rubber boat in the seas off Libya.

Rescue ship carrying migrants reaches Italy after deadly week in Mediterranean. *By Antonio Parrinello. Reuters* [Online]. 20 November 2016. Available from: <http://www.reuters.com/article/us-europe-migrants-italy-idUSKBN13F0IC> A rescue ship carrying more than 200 migrants and eight bodies, docked in Sicily on Sunday after a deadly week in the Mediterranean in which hundreds drowned trying to reach Europe from Libya.

Some 1,400 migrants rescued, eight bodies recovered - Italy coastguard. *By Steve Scherer. Reuters* [Online]. 22 November 2016. Available from: <http://uk.reuters.com/article/uk-europe-migrants-italy-idUKKBN13H1CR> Some 1,400 boat migrants trying to cross the Mediterranean from North Africa to Europe have been rescued so far on Tuesday, Italy's coastguard said, after at least 11 overcrowded boats set out from Libya amid calm seas.

Seven suspected migrants rescued from boat near Dover. *Sky News* [Online]. 23 November 2016. Available from: <http://news.sky.com/story/seven-suspected-migrants-rescued-from-boat-near-dover-10668666> 🗿 Three of those found on board are thought to be suffering from hypothermia.

Italy arrests 13 suspected migrant traffickers for 'inhumane treatment'. *The Local (Italy)* [Online]. 23 November 2016. Available from: <http://www.thelocal.it/20161123/italy-arrests-suspected-migrant-traffickers-for-inhumane-treatment> Police in Salerno, southwestern Italy, have made a series of arrests for criminal conspiracy related to migrant-trafficking, according to a statement on Wednesday morning.

Maritime Incidents Libyan coast Update | 4 - 18 November 2016. *International Organization for Migration (IOM)* [Online]. 21 November 2016. Available from: <http://www.iom.int/sitreps/libya-maritime-incidents-libyan-coast-update-no-2-4-18-november-2016>

Mediterranean Migrant Arrivals Reach 345,676; Deaths at Sea: 4,663. *International Organization for Migration (IOM)* [Online]. 25 November 2016. Available from: <http://www.iom.int/news/mediterranean-migrant-arrivals-reach-345676-deaths-sea-4663> IOM reports that 345,676 migrants and refugees entered Europe by sea in 2016 through 23 November, arriving mostly in Greece and Italy.

Migrant crisis: Italy sees record arrivals from North Africa. *BBC News* [Online]. 28 November 2016. Available from: <http://www.bbc.co.uk/news/world-europe-38139706> This year's total is now more than 171,000, the interior ministry said, beating the previous record of 170,100 in 2014.

Mediterranean Migrant Arrivals Reach 348,664; Deaths at Sea: 4,690. *International Organization for Migration (IOM)* [Online]. 29 November 2016. Available from: <https://www.iom.int/news/mediterranean-migrant-arrivals-reach-348664-deaths-sea-4690> IOM reports that 348,664 migrants and refugees entered Europe by sea in 2016 through 29 November, arriving mostly in Greece and Italy.

Migrant boat traffic from Libya to Europe is surging — and turning deadlier. By Michael Birnbaum. *Washington Post* [Online]. 30 November 2016. Available from: <http://goo.gl/wovx8W> Migrants heading to Italy from Libya in leaky boats and inflatable dinghies have broken an annual arrivals record, Italian authorities said this week, underscoring the rising popularity of an increasingly deadly journey that nowadays aims not for land, but for a frigid mid-sea rescue.

NAVIGATION AND COMMUNICATIONS

Calculation formulas for ice loads and ultimate strength, alternatives to ice ridge drilling – winter navigation research serves many purposes. *Finnish Transport Agency* [Online]. 1 November 2016. Available from: <http://goo.gl/MlJsXU> Four new research reports have just been published in a series on winter navigation.

Integrated Navigation and Automation Solution for New Luxury Ice Class Cruise Ship. *Kongsberg Maritime* [Online]. 14 November 2016. Available from: <https://www.km.kongsberg.com/ks/web/nokbq0238.nsf/AllWeb/0C0BE698BE8D3661C125806B002847B8?OpenDocument> Kongsberg Maritime technology has been chosen for installation aboard Australian cruise line Scenic Cruises' new ice class cruise ship.

Merger creates global maritime satcoms leader. By Martyn Wingrove. *Marine Electronics and Communications* [Online]. 23 November 2016. Available from: http://www.marinemec.com/news/view,merger-creates-global-maritime-satcoms-leader_45540.htm Apax Partners has combined Telemar's satellite communications services with Marlink's after completing the acquisition of Telemar Group.

PIRACY

Threat to seafarers remains despite piracy clampdown, IMB reports. *International Chamber of Commerce (ICC)* [Online]. 31 October 2016. Available from: <https://www.icc-ccs.org/news/1208-threat-to-seafarers-remains-despite-piracy-clampdown-imb-reports> Kidnapping and hostage-taking persists off the coasts of West Africa and South East Asia, despite a 20-year low in piracy on the world's seas, according to new figures from the International Chamber of Commerce (ICC) International Maritime Bureau (IMB).

Benin's anti-piracy fight gives maritime nation 'life insurance'. By Delphine Bousquet. *France 24* [Online]. 2 November 2016. Available from: <http://www.france24.com/en/20161102-benins-anti-piracy-fight-gives-maritime-nation-life-insurance> The naval patrol boat Alibori braves high seas and rough weather to help prevent a repeat of that disastrous year 2011, when pirates carried out 21 attacks on shipping in Benin's waters.

EU Naval Force Operation Commander Reinforces Need for Vigilance at Sea as Chemical Tanker Attacked by Suspected Somali Pirates. *EU NAVFOR Somalia* [Online]. 4 November 2016. Available from: <http://eunavfor.eu/eu-naval-force-operation-commander-reinforces-need-for-vigilance-at-sea-as-chemical-tanker-attacked-by-suspected-somali-pirates/> The Operation Commander of the EU Naval Force (Somalia), Major General Rob Magowan CBE, has reiterated the need for continued vigilance at sea after a chemical tanker, CPO Korea, was reported as being attacked by six armed men 330 nautical miles off the east coast of Somalia on 22 October.

Interview: Piracy still a threat off Somalia despite successes: UN official. *Xinhuanet (China)* [Online]. 17 November 2016. Available from: http://news.xinhuanet.com/english/2016-11/17/c_135837395.htm The threat of piracy off the coast of Somalia looms large despite significant gains made against it, says a UN official.

Piracy in Nigeria. *Aljazeera* [Online]. 17 November 2016. Available from: <http://www.aljazeera.com/programmes/peopleandpower/2016/11/piracy-nigeria-161117080711053.html> The event followed a now familiar pattern: a small convoy of dusty 4x4 vehicles drove on to the edge of the airstrip at Galkayo in Puntland, north-central Somalia; armed security guards took up watchful positions nearby and a number of bemused-looking men stepped gingerly from the cars and lined up to have their photographs taken by the media.

Nigerian pirates target Maersk boxship. By Dale Wainwright. *TradeWinds* [Online]. 21 November 2016. Available from: <http://www.tradewindsnews.com/piracy/1192846/nigerian-pirates-target-maersk-boxship> A Maersk Line containership has reportedly been attacked by armed pirates off the coast of Nigeria on Sunday.

'ECOWAS must eradicate piracy to enhance economic growth'. *Guardian (Nigeria)* [Online]. 23 November 2016. Available from: <http://guardian.ng/business-services/maritime/ecowas-must-eradicate-piracy-to-enhance-economic-growth/> The Nigerian Maritime Administration and Safety Agency (NIMASA), has charged member states of the Economic Community of West African States (ECOWAS) to eradicate the scourge of piracy in the sub-region in order to grow the economy.

Somalia: Denmark Pulling Out of the Fight Against Somali Pirates. *Shabelle News (Somalia)* [Online]. 22 November 2016. Available from:

<http://www.shabellenews.com/2016/11/denmark-pulling-out-of-the-fight-against-somali-pirates/> Danish warships and patrols have been helping NATO keep Somali pirates at bay in the Indian Ocean for nine years, capturing 295 suspected pirates, of which 50 were forwarded for prosecution in other countries.

NATO ends counter-piracy mission as focus shifts to Mediterranean. *By Robin Emmott.*

Reuters [Online]. 23 November 2016. Available from: <http://www.reuters.com/article/us-nato-defence-idUSKBN13I22D> NATO has ended its Indian Ocean counter-piracy mission after a sharp fall in attacks, the alliance said on Wednesday, as it shifts resources to deterring Russia in the Black Sea and people smugglers in the Mediterranean.

Sea pirates of the 21st century are gangs run by criminal masterminds – hostage negotiator. *RT (Russia)* [Online]. 28 November 2016. Available from:

<https://www.rt.com/shows/sophieco/368391-caribbean-pirates-secure-dangerous/> 🗣️ Pirates are not just a legend from the past, but a modern day threat - though they certainly lack the charm of their Caribbean predecessors. [Interview with Colonel John Steed, Hostage Support Partnership, Oceans Beyond Piracy and Advisor to UNODC].

European Union's Counter-Piracy Operation Atalanta Extended by Two Years to Help Ensure Pirate Attacks on Seafarers off Coast of Somalia Remain Suppressed. *EU NAVFOR Somalia* [Online]. 28 November 2016. Available from:

<http://goo.gl/4RmQwg> On Monday 28 November 2016, the European Council extended Operation Atalanta's mandate to deter, disrupt and repress acts of piracy off the coast of Somalia, until 31 December 2018.

PORT STATE CONTROL

Foreign flagged ships under detention in the UK during October 2016. *UK Marine Accident Investigation Branch (MAIB)* [Online]. 8 November 2016. Available from:

<https://www.gov.uk/government/news/foreign-flagged-ships-under-detention-in-the-uk-during-october-2016> The Maritime and Coastguard Agency (MCA) announced today that nine foreign flagged ships were under detention in UK ports during October 2016 after failing Port State Control (PSC) inspection.

Port State Control Authorities to Focus Inspections on Vessel Sulfur Reg Compliance.

Ship & Bunker [Online]. 11 November 2016. Available from: <http://shipandbunker.com/news/world/634969-port-state-control-authorities-to-focus-inspections-on-vessel-sulfur-reg-compliance> Danish Maritime Authority says Port State Control (PSC) authorities across 45 countries, under the Paris MoU and the Tokyo MoU, have agreed to conduct a Concentrated Inspection Campaign (CIC) in 2018, focusing on sulfur emissions from ships, including emission control area (ECA) compliance, where applicable.

PORTS AND HARBOURS

Suez Canal Authority doing everything right to transform Egypt's ailing economy: Drewry. *By Kent Gray. Seatrade Maritime News* [Online]. 31 October 2016. Available from:

<http://www.seatrade-maritime.com/news/middle-east-africa/suez-canal-authority-doing-everything-right-to-transform-egypt-s-ailing-economy-drewry.html> Low bunker prices, the slowdown of global trade and increased competition from the Panama Canal might be impacting the Suez Canal today, but long term the historic waterway is making all the right moves to transform Egypt's ailing economy.

Shipping industry in crisis: Los Angeles and Long Beach ports on uncertain ground. By Rachel Uranga. *Long Beach Press Telegram (US)* [Online]. 5 November 2016. Available from: <http://www.presstelegram.com/business/20161105/shipping-industry-in-crisis-los-angeles-and-long-beach-ports-on-uncertain-ground> With analysts estimating that oceangoing shippers could lose up to \$10 billion worldwide this year, the industry that made globalization possible is sinking into crisis.

Port of Barcelona presents air quality improvement plan, including LNG fueling for ships. *Seatrade Cruise News* [Online]. 3 November 2016. Available from: <http://goo.gl/GzqNk4> The Port of Barcelona has presented its Air Quality Improvement Plan aiming to effectively reduce emissions from port activities.

Maersk Line, ports of Los Angeles and Long Beach partner to measure, reduce air pollution from ships. *Maersk* [Online]. 7 November 2016. Available from: <http://www.maerskline.com/en-us/countries/int/news/news-articles/2016/11/maerskline-ports-of-los-angeles> Maersk Line and the ports of Los Angeles and Long Beach are partnering to measure the environmental benefits of a \$125 million upgrade for 12 Maersk container ships.

Chinese ship opens new trade route via Pakistani port. *Times of India* [Online]. 13 November 2016. Available from: <http://timesofindia.indiatimes.com/world/pakistan/Chinese-ship-opens-new-trade-route-via-Pakistani-port/articleshow/55396626.cms> Pakistan's top civilian and military leaders traveled to the country's southwest on Sunday to open a new international trade route by seeing off a Chinese ship that's exporting goods to the Middle East and Africa from the newly built Gwadar port.

Cruise lines and European shipowners welcome the revision of port reception facilities directive. *European Community Shipowners' Associations (ECSA)* [Online]. 15 November 2016. Available from: <http://www.ecsa.eu/9-latest-news/282-15-11-2016-cruise-lines-and-european-shipowners-welcome-the-revision-of-port-reception-facilities-directive> The Cruise Lines International Association Europe (CLIA Europe) and the European Community Shipowners' Associations (ECSA) welcome the revision of the European directive on port reception facilities for ship-generated waste and cargo residues.

ECSA Joint Statement On the public consultation in the context of the revision of the Port Reception Facilities Directive (2000/59/EC). *European Community Shipowners' Associations (ECSA)/Cruise Lines International Association (CLIA)* [Online]. 15 November 2016. Available from: http://www.ecsa.eu/images/PositionPapers2016/2016-11-15_ECSA-CLIA-joint-industry-statement.doc The Cruise Lines International Association (CLIA) Europe and the European Community Shipowners' Associations (ECSA) contributed to the recent European Commission public consultation on the upcoming revision of the Port Reception Facilities (PRF) Directive for waste generated by ships, adopted in 2000.

Time for action to reduce port congestion. *Southern Daily Echo (UK)* [Online]. 15 November 2016. Available from: http://www.dailyecho.co.uk/yoursay/letters/14905940.Time_for_action_to_reduce_port_congestion/ Some years ago, when Members of Parliament asked for more information on the use of inland waterways and coastal shipping, the then chairman of the industry lobby group "Freight by Water" responded.

\$2.5-Billion Port Development in Montego Bay Back on Track. By Garwin Davis. *Jamaica Information Service* [Online]. 17 November 2016. Available from: <http://jis.gov.jm/2-5-billion-port-development-montego-bay-back-track/> Chairman of the Port Authority of Jamaica (PAJ), Professor Gordon Shirley, says the construction phase of the \$2.5-billion master plan for the development of the port of Montego Bay is back on track.

PH cities benefits for ASEAN ports that link up with Maritime Silk Road. *Port Calls Asia* [Online]. 21 November 2017. Available from: <http://www.portcalls.com/ph-cites-benefits-asean-ports-link-maritime-silk-road/> The Philippines is urging members of the Association of Southeast Asian Nations (ASEAN) Ports Association (APA) to align their policies and port infrastructure improvements so as to take advantage of China's Maritime Silk Road (MSR).

Abu Dhabi looks to digital information to drive port growth. *By Turloch Mooney.* *IHS Maritime Fairplay* [Online]. 24 November 2016. Available from: <http://goo.gl/zE5j6K> Abu Dhabi is investing heavily in digital information systems to support ambitious plans to grow its port facilities into a large regional shipping and logistics hub.

Port Authority enters into joint venture agreement for construction of port in Indonesia. *Port of Rotterdam* [Online]. 24 November 2016. Available from: <https://www.portofrotterdam.com/en/news-and-press-releases/port-authority-enters-into-joint-venture-agreement-for-construction-of-port> The Port of Rotterdam Authority signed a joint venture agreement with the Indonesian state-owned port corporation Pelindo 1.

With US\$3b port, Malacca eyes slice of shipping giant Singapore's pie. *By Roslan Khasawneh.* *Channel News Asia* [Online]. 23 November 2016. Available from: <http://www.channelnewsasia.com/news/business/with-us-3b-port-malacca-eyes-slice-of-shipping-giant-singapore-s/3311996.html> Once at the heart of the global spice trade, Malacca is pumping nearly US\$3 billion into an ambitious plan to put itself in demand in a different hot commodity - oil.

Tanjung Manis Port embarks on continuous improvements. *Borneo Post* [Online]. 28 November 2016. Available from: <http://www.theborneopost.com/2016/11/28/tanjung-manis-port-embarks-on-continuous-improvements/> With the completion of Tanjung Manis Port Refurbishment Project on October 31, 2015, the anticipated congestion at Tanjung Manis Integrated Port Sdn Bhd (TMP) has been timely addressed with containerised cargo capacity increased from 45,000 twenty-foot equivalents (TEUs) to 230,000 TEUs.

Close Ports to Sea Shepherd? *Maritime Executive* [Online]. 26 November 2016. Available from: <http://www.maritime-executive.com/editorials/close-ports-to-sea-shepherd> Jeff Hansen, Managing Director of Sea Shepherd Australia has responded to an article in *The Australian*: Close ports to Sea Shepherd or risk sharing guilt for its vigilantism.

Port in Hong Kong: The Blue Economy turning blue. *By Alex Fok.* *Harbour Times (Hong Kong)* [Online]. 25 November 2016. Available from: <http://harbourtimes.com/2016/11/25/port-in-hong-kong-the-blue-economy-turning-blue/> In face of increasing challenges, the once prominent Port of Hong Kong is now begging for mercy from its mainland competitors.

Dozens of ports built along Maritime Silk Road. *By Feng Xin.* *China Central Television (CCTV)* [Online]. 28 November 2016. Available from: <http://english.cctv.com/2016/11/28/VIDEanmVxkI33ZEK5CTbHb3q161128.shtml>  Chinese companies have been keen on investing and building foreign ports in recent years. Where and why is China doing so?

Mwani Qatar and Milaha establish 'QTerminals' to manage Doha's mega Hamad Port. *By Kent Gray.* *Seatrade Maritime News* [Online]. 29 November 2016. Available from: <http://www.seatrade-maritime.com/news/middle-east-africa/mwani-qatar-and-milaha-establish-qterminals-to-manage-doha-s-mega-hamad-port.html> Qatar Port Management Company (Mwani Qatar) and shipping and logistics giant Qatar Navigation (Milaha) are to form a new entity to manage the kingdom's new \$7.5bn mega port.

Carriers playing poker with ports warns new report. *Drewry Shipping Consultants* [Online]. 30 November 2016. Available from: <https://www.drewry.co.uk/news/carriers-playing-poker-with-ports-warns-new-report> Container shipping lines are in danger of putting future port investment at risk in their demands for terminal handling cost reductions, according to the recently launched Ports and Terminals Insight report published by global shipping consultancy Drewry.

RECYCLING OF SHIPS

Is China's shipbreaking industry close to breaking point? By Eva Grey.

Ship-Technology.Com [Online]. 1 November 2016. Available from: <http://www.ship-technology.com/features/featureis-chinas-shipbreaking-industry-close-to-breaking-point-5654499/> Following four years of financial losses, China's shipbreaking industry is under huge pressure from depressed steel prices and expensive green recycling methods, and is losing business to cheaper Southeast Asian counterparts.

Government suspends demo work in Gadani. By Dale Wainwright. *TradeWinds* [Online].

3 November 2016. Available from: <http://www.tradewindsnews.com/casualties/1187551/government-suspends-demo-work-in-gadani> Ship scrapping at the Gadani ship breaking yards has been suspended in the wake of the recent tanker explosion, TradeWinds understands.

Pakistan: Workers strike as shipyard death toll rises. *IndustriALL Global Union* [Online].

3 November 2016. Available from: <http://www.industriall-union.org/pakistan-workers-strike-as-shipyard-death-toll-rises> A fire is raging aboard an oil tanker in the shipbreaking yard of Gadani, Pakistan, with up to 150 workers trapped inside.

Norway's Grieg looking to scrap in Asia without beaching. By Louise Vogdrup-Schmidt.

ShippingWatch [Online]. 8 November 2016. Available from: <http://shippingwatch.com/secure/suppliers/article9132821.ece> Oslo-based Grieg Green is in discussions with various players in India and Bangladesh to create a shipbreaking yard with the same standards and conditions as at the yards Grieg Green already collaborates with in China, CEO Petter Heier tells ShippingWatch.

No more beach parties for shipping. By Olaf Merk. *Shipping Today* [Online]. 17 November 2016. Available from: http://shippingtoday.eu/ship_recycling/ Last month was not a particularly good month for Maersk. It lost millions of dollars, got a downgrade from rating agencies, but possibly more important, it was haunted by scandals related to the scrapping of its old ships.

The changing face of ship recycling in India. By Shashinath Mishra, Head, Indian Register Quality Systems. *Splash 24/7* [Online]. 23 November 2016. Available from:

<http://splash247.com/changing-face-ship-recycling-india/> India has the largest ship recycling industry, being responsible for one third of all recycled tonnage in the world with more than 150 yards along its coast.

REGULATIONS

BWM implementation dates or how industry NGOs managed to turn the table on themselves. By Jad Mouawad, Mouawad Consulting. *Green4Sea* [Online]. 2 November 2016. Available from: <http://www.green4sea.com/bwm-implementation-dates-or-how-industry-ngos-managed-to-turn-the-table-on-themselves/> Jad Mouawad, Owner at Mouawad Consulting, comments IMO's decision on BWM Convention at the MEPC 70 and advises ship operators how to get prepared for the implementation due on September 2017.

IMO clean fuel regulations could push prices up by 70%. *Marasi News (UAE)* [Online]. 2 November 2016. Available from: <http://www.marasinews.com/legal-regulations/new-imo-clean-fuel-regulations-could-push-prices-70> Maritime professionals attending Seatrade Maritime Middle East 2016 (SMME), have been discussing the ramifications of the new International Maritime Organization (IMO) 0.5% sulphur cap which comes into force in 2020 and could push the price of fuel used to operate ships (bunker prices), by more than US\$200 a tonne - a 70% increase.

Preparing for entry into force of the Ballast Water Management Convention. By Brenda Pimentel. *Manila Times* [Online]. 5 November 2016. Available from: <http://www.manilatimes.net/preparing-entry-force-ballast-water-management-convention/294850/> This comes after the required number of States, whose combined merchant fleets constitute not less than thirty-five percent of the gross tonnage of the world's merchant shipping, have ratified the convention and have deposited the requisite instrument of ratification.

Costs Associated with New Environmental Regs Among Top Concerns in Ship Operating Costs Survey. *Ship & Bunker* [Online]. 4 November 2016. Available from: <http://shipandbunker.com/news/world/830604-costs-associated-with-new-environmental-regs-among-top-concerns-in-ship-operating-costs-survey> Moore Stephens UK (Moore Stephens) says costs associated with meeting tightening regulatory requirements on shipping, such as the International Maritime Organization's (IMO's) 2017 implementation of the Ballast Water Management (BWM) Convention and recent decision to implement a 0.5 percent cap on sulfur content in marine fuel from 2020, was cited as one of the top concerns among respondents to Moore Stephens' "Future Operating Costs Survey 2016."

BW Convention - The eggs are broken. Compliance is non-negotiable. *Institute of Marine Engineering, Science and Technology (IMarEST)* [Online]. 13 November 2016. Available from: <https://www.imarest.org/local-communities/middle-east-africa/uae/item/2924-bw-convention-the-eggs-are-broken-compliance-is-non-negotiable> RINA and the IMarEST UAE Branch hosted a knowledge sharing session on 'The role of Classification in the implementation of the BWM Convention' for the Middle East maritime fraternity.

IMO regulation on Ballast Water Management to trigger further scrapping activity in tanker shipping market. By Rajesh Verma. *Drewry Shipping Consultants* [Online]. 16 November 2016. Available from: <https://www.drewry.co.uk/news/imo-regulation-on-ballast-water-management-to-trigger-further-scrapping-activity-in-tanker-shipping-market> Weakness in freight rates will increase tanker shipping demolitions over the next two years, with the trend accelerating in later years as a result of the IMO regulation on ballast water, according to the latest edition of the Tanker Forecaster, published by global shipping consultancy Drewry.

SOLAS container weighing rules create \$4bn industry – and 'blatant profiteering'. By Alexander Whiteman. *The Loadstar* [Online]. 16 November 2016. Available from:

<http://theloadstar.co.uk/solas-container-weighing-rules-create-4bn-industry-blatant-profiteering/>

This year's implementation of the verified gross mass (VGM) amendment to the SOLAS [Safety of Life at Sea] regulations has created a potential \$4bn market.

Cost concerns as shipping faces new environmental regulations. By David Glass.

Seatrade Maritime News [Online]. 21 November 2016. Available from: <http://www.seatrade-maritime.com/news/europe/cost-concerns-as-shipping-faces-new-environmental-regulations.html>

IMO's MEPC 70 may have developed a "roadmap" for the reduction of greenhouse gas emissions but it is becoming evident the roadmap's directions are far from clear.

Bureau Veritas: Helping Ship Owners Comply with Ballast Water Management Requirements. *Bureau Veritas* [Online]. 21 November 2016. Available from:

<http://www.bureauveritas.com/home/news/business-news/ballast-water-management-requirements>

Ballast Water Management (BWM) Convention enters into force on September 8, 2017 and Bureau Veritas is on hand to support its clients in the countdown to compliance.

The good, the bad and the ugly. By Craig Eason. *Lloyd's List* [Online]. 30 November 2016.

Available from: <https://www.lloydslist.com/ll/sector/regulation/article542986.ece> Shipowners have an uneasy relationship with regulation, especially when it is unclear, opaque and uncertain - nearly all the time then.

Polar Code – An overview. By Lt.Chris Rabalais. *US Coast Guard Maritime Commons* [Online]. 30 November 2016. Available from:

<http://mariners.coastguard.dodlive.mil/2016/11/30/polar-code-overview/> The International Code for Ships Operating in Polar Waters, commonly known as the Polar Code, is a ship-focused code with specific provisions that enhance the design, operations, and equipment standards of vessels operating in Arctic and Antarctic waters.

DNV GL examines the latest regulatory developments and the tanker market. By Nikos Späth.

DNV GL [Online]. 29 November 2016. Available from: <https://www.dnvgl.com/news/-dnv-gl-examines-the-latest-regulatory-developments-and-the-tanker-market-81147>

DNV GL's Tanker Working Group looked at the latest trends in the tanker segment with a special focus on the impact of upcoming emissions regulations at its 31st meeting in Hamburg recently.

SEAFARERS

Kidnapped by Pirates: Cambodian Fishermen Return After Four-Year Ordeal in Somalia.

International Organization for Migration (IOM) [Online]. 1 November 2016. Available from:

<http://www.iom.int/news/kidnapped-pirates-cambodian-fishermen-return-after-four-year-ordeal-somalia>

Four Cambodian fishermen, kidnapped in 2012 by Somali pirates, are finally back in the arms of their loved ones.

Families of Kidnapped Malaysian Sailors Miss Ransom Deadline. By Dennis Wong. *Benar News* [Online]. 31 October 2016. Available from:

<http://www.benarnews.org/english/news/malaysian/hostages-family-10312016142901.html> The families of five Malaysian sailors kidnapped in July and apparently being held by Abu Sayyaf Group (ASG) militants in the Philippines are in limbo some two weeks after failing to meet the militants' ransom demand.

Fiji WIMA develops work plan. By Maika Bolatiki. *Fiji Sun Online* [Online]. 2 November 2016. Available from: <http://fijisun.com.fj/2016/11/02/fiji-wima-develops-work-plan/> The Fiji Women in Maritime Association (WIMA) have developed their work plan to also include activities that can address issues and create awareness.

It's Not the Day of the Seafarer Anymore. By Wendy Laursen. *Maritime Executive* [Online]. 1 November 2016. Available from: <http://www.maritime-executive.com/editorials/its-not-the-day-of-the-seafarer-anymore> On June 25, the shipping industry celebrated the IMO's Day of the Seafarer.

The overwhelming question remains; is labour a commodity- True or False? By Rohey Samba. *Daily Observer (Gambia)* [Online]. 1 November 2016. Available from: <https://observer.gm/the-overwhelming-question-remains-is-labour-a-commodity-true-or-false/> To answer this question, I will examine the underlying principle of the terms; labour is not a commodity, in its context and in the light of its object and purpose.

Vietnam seeks measures to rescue 6 kidnapped sailors. By Thu Minh. *Hanoitimes (Vietnam)* [Online]. 13 November 2016. Available from: <http://hanoitimes.com.vn/news/vietnam/2016/11/81E0AB7C/vietnam-seeks-measures-to-rescue-6-kidnapped-sailors/> According to the Vietnamese Embassy in the Philippines, the injured sailor is receiving treatment at Brent Hospital in the Philippines, said Foreign Ministry Spokesperson Le Hai Binh.

Held by Somali Pirates for over Four Years. *BBC World Service* [Online]. 15 November 2016. Available from: <http://www.bbc.co.uk/programmes/p04fdt4z> Taiwanese boat engineer, Shen Jui-chang was freed last month after spending nearly five years as a hostage. [Interview with Taiwanese boat engineer, Shen Jui-chang] AUDIO @ 00:40 sec.

Shipping industry needs more crew training as regulation increases. By Surabhi Sahu. *S&P Global Platts* [Online]. 14 November 2016. Available from: <http://www.oceanintelligence.com/news/Shipping-industry-needs-more-crew-training-as-regulation-increases-143737> Ship management companies, owners and operators need to increase their focus on crew training to respond to the increasing burden of regulation being imposed on the industry, according to delegates at last week's Asian Marine Engineering Conference.

WISTA: Connectivity, Wellness And Gender Equality For Seafarers. By Lesley Warrick. *Women's International Shipping and Trading Association (WISTA)* [Online]. 1 November 2016. Available from: <http://www.crewconnectblog.com/wista-connectivity-wellness-gender-equality-seafarers/> The future of seafarers is one of the hottest topics being discussed right now, we take a look at the burning questions and look to the future of maritime and what needs to change to get there.

250 maritime workers protest in Rome. By Alberto Quarati. *MediTelegraph (Italy)* [Online]. 17 November 2016. Available from: <http://www.themeditelegraph.com/en/shipping/shipowners/2016/11/17/maritime-workers-protest-rome-uuQiCEOUfgWYF5FeLVObxN/index.html> They, like so many others - and they are many - feel cut out of the game, far from the government's palaces, in a state of malaise which for Italian sailors means feeling abandoned by the traditional unions and shipowners.

Indian woman wins top bravery award for dramatic sea rescue. *BBC News* [Online]. 22 November 2016. Available from: <http://www.bbc.co.uk/news/world-asia-india-38063326>  After their engine failed and their anchor was lost off the coast of India's Andhra Pradesh state in June last year, the men were left stranded in dangerous waters.

Seafarers plight touch Falkirk pupils. *Apostleship of the Sea (AoS)* [Online]. 22 November 2016. Available from: <http://www.apostleshipofthesea.org.uk/seafarers-plaint-touch-falkirk-pupils> Apostleship of the Sea made a 'memorable' visit to St Andrew's Primary School in Falkirk recently where their story of helping seafarers touched the hearts of everyone.

AoS steps up Indian Ocean network. *Apostleship of the Sea (AoS)* [Online]. 24 November 2016. Available from: <http://www.apostleshipofthesea.org.uk/aos-steps-indian-ocean-network> Global charity Apostleship of the Sea (AoS) is stepping up its support for seafarers' and fishers' in the Indian Ocean region, following a regional heads conference held in Cape Town, South Africa.

Apostleship of the Sea Comes To Aid Of Desperate Crew In Port Of Aberdeen. *RC Diocese of Aberdeen* [Online]. 27 November 2016. Available from: <http://www.dioceseofaberdeen.org/archives/8537> The work of the Apostleship of the Sea (AoS), a Catholic charity supporting seafarers worldwide, has been highlighted recently in relation to the Indian crew on a ship at port in Aberdeen.

Mission to Seafarers confronts human cost of shipping. *By Tali Folkins. Anglican Journal* [Online]. 28 November 2016. Available from: <http://www.anglicanjournal.com/articles/mission-to-seafarers-confronts-human-cost-of-shipping> Serving with the Mission to Seafarers, says the Rev. Eric Phinney, can be an eye-opening experience in many respects - down to the way you see items on a store shelf.

SEARCH AND RESCUE

Crew of tanker *Leonid Loza* rescue 10 fishermen from Atlantic. *Sovcomflot* [Online]. 11 November 2016. Available from: http://sovcomflot.ru/en/press_office/press_releases/item79336.html On 7 November 2016, SCF Group's tanker *Leonid Loza* received a distress call from the fishing trawler *Baraka*, when proceeding along the west coast of Africa for loading.

Search & Rescue 'Heroes' Announced at First IMRF International Awards Event. *International Maritime Rescue Federation* [Online]. 16 November 2016. Available from: <http://international-maritime-rescue.org/10-news/2261> Stories of dedication, selflessness, innovation, courage and bravery dominated the events held in Washington D.C., USA and Lisbon, Portugal yesterday when the winners of the International Maritime Rescue Federation's (IMRF) H.E.R.O. (Honouring Excellence in Rescue Operations) Awards were announced.

Search and rescue in the Mediterranean more dangerous than ever as 2016 becomes deadliest year on record. *Migrant Offshore Aid Station (MOAS)* [Online]. 16 November 2016. Available from: <https://www.moas.eu/search-and-rescue-in-the-mediterranean-more-dangerous-than-ever-as-2016-becomes-deadliest-year-on-record/> Despite tireless efforts to save lives by both civil society and European navies, MOAS crews are witnessing search-and-rescue efforts in the Mediterranean becoming more challenging than ever.

SHIPBUILDING AND SHIPREPAIR

PM Welcomes Ship Repair Company to Local Economy. *Jamaica Information Service* [Online]. 7 November 2016. Available from: <http://jis.gov.jm/pm-welcomes-ship-repair-company-local-economy/> Prime Minister, the Most Hon. Andrew Holness, joined with German and local investors in ushering a new industry into the local economy with the launch of German Ship Repair Jamaica (GSRJ) Limited on Thursday (November 3).

S. Korea to build more LNG-powered ships. *Yonhap News Agency (South Korea)* [Online]. 16 November 2016. Available from: <http://english.yonhapnews.co.kr/business/2016/11/16/69/0501000000AEN20161116011351320F.html> South Korea said Wednesday that it will push to build more ships powered by liquid natural gas (LNG) and develop the relevant technologies in an effort to go green amid looming strict emission rules.

ISO Publishes New Hull and Propeller Performance Standard. *Ship & Bunker* [Online]. 18 November 2016. Available from: <http://shipandbunker.com/news/world/625737-iso-publishes-new-hull-and-propeller-performance-standard> The International Organization for Standardization (ISO) Wednesday published ISO 19030, which sets standards and methods for measuring hull and propeller performance, and defines performance indicators for hull and propeller maintenance, repair, and retrofit activities.

Oceanwide Expeditions announces new advanced Polar vessel *Hondius*. *Oceanwide Expeditions* [Online]. 24 November 2016. Available from: <https://oceanwide-expeditions.com/blog/oceanwide-expeditions-announces-new-advanced-polar-vessel-hondius> Due to an increased demand for polar cruises, Oceanwide Expeditions, the leading exploratory Polar cruise company since 1996, has commissioned the building of an innovative 180-passenger vessel.

SHIPPING

A blueprint for growth: Priorities for leaving the EU. *UK Chamber of Shipping* [Online]. 28 October 2016. Available from: <https://www.ukchamberofshipping.com/latest/blueprint-growth-priorities-leaving-eu/> The Blueprint is designed to act as a manifesto for the years ahead, setting out what Government's priorities for the Brexit negotiations should be – namely the importance of maintaining ease of trade at UK ports and ensuring our companies have access to the world's best maritime talent. [Blueprint Summary](#) 

Shescape - Women in the maritime. *Maritime Foundation* [Online]. 27 October 2016. Available from: <https://www.youtube.com/watch?v=ThCniUZcYxo> 

UAE Shipping Association breakfast on Big Data but not ready to feast. By Kent Gray. *Seatrade Maritime News* [Online]. 2 November 2016. Available from: <http://www.seatrade-maritime.com/news/middle-east-africa/uae-shipping-association-breakfast-on-big-data-but-not-ready-to-feast.html> That was the takeaway from a business breakfast where smart shipping thought leaders shared "Big Data" intel and opportunities with a small gathering of UAE Shipping Association (UAESA) members as the 8th Seatrade Maritime Middle East (SMME) conference and exhibition opened in Dubai on Monday.

World's Biggest Shipping Company Wants More Mergers After Japan. By Nicholas Brautlecht and Christian Wienberg. *Bloomberg* [Online]. 1 November 2016. Available from: <http://www.bloomberqqint.com/business/2016/11/01/maersk-says-mergers-are-needed-as-biggest-japan-rivals-team-up> A.P. Moller-Maersk A/S, owner of the world's largest container line, said mergers like the combination of its three main Japanese rivals provide relief to an ailing industry that has been characterized by over-capacity.

Emissions omission: Labour slams ministers over shipping and carbon. By Chris Ames. *Transport Network* [Online]. 2 November 2016. Available from: <http://transport-network.co.uk/Emissions-omission-Labour-slams-ministers-over-shipping-and-carbon/13459> Labour has criticised ministers for failing to include carbon emissions in their priority objectives at a meeting at the International Maritime Organisation (IMO) last week.

Hapag-Lloyd and DB Schenker celebrate 10 years of Environmental Partnership. *Hapag-Lloyd* [Online]. 2 November 2016. Available from: <https://www.hapag-lloyd.com/en/press/releases/2016/11/hapag-lloyd-and-db-schenker-celebrate-10-years-of-environmental-.html> Hapag-Lloyd has reduced the CO2 footprint of its container transports by 45 percent since 2006.

A COP22 Guide to the Mysterious World of Shipping. By Kate Wheeling. *Pacific Standard (USA)* [Online]. 7 November 2016. Available from: <https://psmag.com/a-cop22-guide-to-the-mysterious-world-of-shipping-21fb88c576e3> Shipping is by far the most energy-efficient and environmentally friendly way to move commodities in bulk—moving one ton of cargo by sea emits four times less carbon dioxide than moving it by road, and 100 times less than by air.

OCEAN Alliance Sets Out Network. *Evergreen Line* [Online]. 3 November 2016. Available from: http://www.evergreen-line.com/tuf1/jsp/TUF1_Html.jsp?page=TBN1_161103.jsp Members of the OCEAN Alliance, COSCO Container Lines, CMA CGM, Evergreen Line and Orient Overseas Container Line, today signed a document entitled the Day One Product, which sets out the proposed OCEAN Alliance's network, including port rotation for each service loop.

UNCTAD: Seaborne shipping grows at slowest pace since 2009, future remains uncertain. *Hellenic Shipping News* [Online]. 8 November 2016. Available from: <http://www.hellenicshippingnews.com/unctad-seaborne-shipping-grows-at-slowest-pace-since-2009-future-remains-uncertain/> Seaborne shipments passed 10 billion tons for the first time ever in 2015, up 2.1 per cent from 9.8 billion tons the year before, the UNCTAD Review of Maritime Transport 2016 says, noting that this is the slowest pace of growth in the industry since 2009 and that future growth looks uncertain.

Review of Maritime Transport 2016. *United Nations Conference on Trade and Development (UNCTAD)* [Online]. November 2016. Available from: <http://unctad.org/en/pages/PublicationWebflyer.aspx?publicationid=1650> The present edition of the Review of Maritime Transport takes the view that the long-term growth prospects for seaborne trade and maritime businesses are positive. [Review of Maritime Transport 2016](#) 

How Not to Fight Climate Change, Shipping Edition. *Bloomberg* [Online]. 7 November 2016. Available from: <https://www.bloomberg.com/view/articles/2016-11-07/how-not-to-fight-climate-change-shipping-edition> The shipping industry accounts for more greenhouse gas emissions than airplanes, buses or trains.

Compliance and innovation top Liberia's list. *Tanker Shipping & Trade* [Online]. 7 November 2016. Available from: http://www.tankershipping.com/news/view,compliance-and-innovation-top-liberias-list_45318.htm Liberia is one of the largest ship registers in the world, and with nearly a third of its tonnage made up of tankers, those managing the register are well placed to know what tanker owners want: technical competence.

Cargo owners in flight to safety after Hanjin collapse, shipping lines say. By Brenda Goh and Faith Hung. *Reuters* [Online]. 7 November 2016. Available from: <http://www.reuters.com/article/us-maersk-shipping-asia-idUSKBN132108> Cargo owners are becoming more concerned about risks and are shifting their business to shipping lines deemed more financially stable after the collapse of South Korea's Hanjin Shipping Co Ltd (117930.KS), top shipping executives said.

The Gulf Courts Mega Shipping. By Matt Guasco, President, INF Marketing and Logistics, Inc. *American Journal of Transportation (AJOT)* [Online]. 7 November 2016. Available from: <https://www.ajot.com/blogs/full/blog-the-gulf-courts-mega-shipping> The expansion of the Panama Canal has opened the Caribbean Basin and the Gulf of Mexico to the age of Mega Shipping.

The Implications of Mega-Ships and Alliances for Competition and Total Supply Chain Efficiency: An Economic Perspective. *Global Shippers' Forum* [Online]. 11 November 2016. Available from: <https://globalshippersforum.com/media/1267/gsf-mega-ships.pdf>  The container shipping market is undergoing considerable change: the development of the mega-ship has had a profound impact.

We MUST future proof our industry, says InterManager. *InterManager* [Online]. 16 November 2016. Available from: <http://www.intermanager.org/2016/11/we-must-future-proof-our-industry-says-intermanager/> InterManager, the third party and in-house ship management association, has urged the maritime industry not to neglect its duty in ensuring a sustainable future.

Shipping can't afford to ignore the biggest event of the 21st Century on China's One Belt One Road policy, says Ince & Co. *Hellenic Shipping News* [Online]. 16 November 2016. Available from: <http://www.hellenicshippingnews.com/shipping-cant-afford-to-ignore-the-biggest-event-of-the-21st-century-on-chinas-one-belt-one-road-policy-says-ince-co/> China's 'One Belt One Road' (OBOR) policy is set to redefine trade patterns between Asia and Europe, with seismic repercussions for the maritime industry, according to international law firm Ince & Co.

DuPont: 20% of the Global Fleet Could Have Scrubbers Installed by 2025. *Ship & Bunker* [Online]. 15 November 2016. Available from: <http://shipandbunker.com/news/world/894372-dupont-20-of-the-global-fleet-could-have-scrubbers-installed-by-2025> As much as 20 percent of the global fleet could have scrubbers installed by 2025, according to DuPont Clean Technologies (DuPont).

Danish Maritime Authority makes more data available. *Danish Maritime Authority* [Online]. 15 November 2016. Available from: <http://www.dma.dk/news/Sider/DanishMaritimeAuthoritymakesmoredataavailable.aspx> It will become possible to continuously get AIS data covering the last two years.

DNV GL launches new tool to support wider adoption of LNG as a fuel. By Astrid Folkvord Janbu. *DNV GL* [Online]. 15 November 2016. Available from: <https://www.dnvgl.com/news/dnv-gl-launches-new-tool-to-support-wider-adoption-of-lng-as-a-fuel--80424> European Autumn Gas Conference, The Hague: Greater use of LNG as fuel would reduce global emissions of greenhouse gases, but barriers remain to its widespread adoption.

Government restates commitment to shipping sector development. By Sulaimon Salau. *Guardian (Nigeria)* [Online]. 16 November 2016. Available from: <http://guardian.ng/business-services/government-restates-commitment-to-shipping-sector-development/> The Minister of Transportation, Rotimi Ameachi has assured that the Federal Government is committed to building a virile platform through the implementation of policies and programmes that will further enhance the contributions of the maritime sector to the national economy.

Dubai Maritime City Authority signs 'Maritime Innovation Cooperation Agreement' with DNV GL. *Government of Dubai* [Online]. 16 November 2016. Available from: <http://www.dmca.ae/en/NewsMediaCenter/PressReleases/NewsDetails.aspx?News=dubai.maritime.city.authority.signs.maritime.innovation.cooperation.agreement.with.dnv.gl> Dubai Maritime City Authority (DMCA), the government authority charged with regulating, coordinating and supervising all aspects of Dubai's maritime sector, has announced the signing of an agreement with DNV GL today at the DNV GL National Committee, which started this morning, on Tuesday (November 15, 2016), to collaborate on several maritime innovation initiatives.

Why shipping must up its game to fight global warming. By John Kornerup Bang. *Maersk* [Online]. 14 November 2016. Available from: <http://www.maersk.com/en/industries/2016/11/why-shipping-must-up-its-game-to-fight-global-warming?> As world leaders talk climate change solutions at COP22 in Marrakesh, the maritime industry looks set to intensify discussions on determining shipping's fair share of reducing carbon emissions. Raising the ambition for global regulation remains crucial to ensure shipping's contribution to reach the Paris Agreement's goal of staying below 2°C temperature rise.

Full Speed Ahead: Shipping Plans Grow as Arctic Ice Fades. By Ed Struzik. *Yale Environment 360* [Online]. 17 November 2016. Available from: http://e360.yale.edu/feature/cargo_shipping_in_the_arctic_declining_sea_ice/3056/ Russia, China, and other nations are stepping up preparations for the day when large numbers of cargo ships will be traversing a once-icebound Arctic Ocean.

Cruise industry 'failing' environment and public health, report claims. By Gavin Haines. *The Telegraph* [Online]. 17 November 2016. Available from: <http://www.telegraph.co.uk/travel/cruises/articles/cruise-industry-failing-environment-and-public-health-report-claims/> The authors of a critical report that analyses the impact of cruise ships on public health and the environment have launched a withering attack on the industry and the organisation that regulates it.

Mark Cameron, Ardmore Shipping's COO speaks about demurrage, ballast and crewing. By Edwin Lampert. *Tanker Shipping & Trade* [Online]. 17 November 2016. Available from: http://www.tankershipping.com/news/view/mark-cameron-ardmore-shippings-coo-speaks-about-demurrage-ballast-and-crewing_45471.htm ⚓ Ardmore Shipping's COO, Mark Cameron speaking at the 2016 Tanker Shipping & Trade conference about the issues of demurrage payments, the financial practicalities of ballast water treatment investment, why Ardmore shipping continues to invest in crew and his views on big data.

ADB Project to Improve Maritime Transport in Tuvalu. *Asian Development Bank* [Online]. 17 November 2016. Available from: <https://www.adb.org/news/adb-project-improve-maritime-transport-tuvalu> A \$13.3 million Asian Development Bank-supported project to build better maritime facilities on three of Tuvalu's outer islands will make shipping to and from the capital safer and more efficient.

WISTA Sets Sail into the Future. By Michelle Howard. *Maritime Professional* [Online]. 17 November 2016. Available from: <http://www.maritimeprofessional.com/news/wista-sets-sail-into-future-298392> More than 225 shipping and trading executives from 30 countries joined the Women's International Shipping & Trading Association (WISTA) aboard the *ms Koningsdam*, Holland America Line's newest vessel, on November 9 for the WISTA 2016 International Conference and Annual General Meeting.

Mapping the world's LNG-fuelled fleet. By Martin Wold, Senior Consultant Environment Advisory, DNV GL. *LNG World Shipping* [Online]. 21 November 2017. Available from: http://www.lngworldshipping.com/news/view,mapping-the-worlds-lngfuelled-fleet_45473.htm With exciting new projects in the cruise industry and many other segments, the second half of 2016 has been very positive for the LNG industry, writes Martin Wold.

The Trade Debate: Can Seaborne Trends Shine Any Light? *Clarkson Research Services Limited (CRSL)* [Online]. 18 November 2016. Available from: <https://clarksonresearch.wordpress.com/2016/11/18/the-trade-debate-can-seaborne-trends-shine-any-light/> World seaborne trade, whilst still growing at a relatively steady pace, has seen a slightly less rapid rate of growth since 2015, compared to both the longer-term historical average, and the more recent 2011-14 period.

European Shipowners need certainty, says ECSA's Secretary General. *Hellenic Shipping News* [Online]. 22 November 2016. Available from: <http://www.hellenicshippingnews.com/european-shipowners-need-certainty-says-ecsas-secretary-general/> IMO's recent sulphur cap decision is a positive step as the ship owning community across Europe needs certainty, claims Dr. Patrick Verhoeven, Secretary General of the European Community Shipowners' Associations (ECSA), in an exclusive interview with Hellenic Shipping News Worldwide, ahead of the European Shipping Week, due to take place in Brussels during the period from 27th of February and until the 3rd of March.

Shipping is cleaning up its act. By Erik Broekhuizen, Poten & Partners. *Splash 24/7* [Online]. 22 November 2016. Available from: <http://splash247.com/shipping-cleaning-act/> On 27 October 2016, the International Maritime Organization's (IMO's) Marine Environment Protection Committee voted on the timing for the new sulphur emissions cap for marine bunker fuel. On January 1, 2020, the global sulphur cap on marine fuels will go down from 3.5% to 0.5%.

NYK Line debuts world's first LNG auto carrier. By Manabu Morimoto. *Nikkei Asian Review* [Online]. 23 November 2016. Available from: <http://asia.nikkei.com/Business/Companies/NYK-Line-debuts-world-s-first-LNG-auto-carrier> Japanese shipping group Nippon Yusen has launched the world's first automobile-transport vessel that can run on liquefied natural gas.

Consolidation will bring stability to liner shipping industry, says Maersk China boss. By Celia Chen. *South China Morning Post* [Online]. 22 November 2016. Available from: <http://www.scmp.com/business/global-economy/article/2048361/consolidation-will-bring-stability-liner-shipping-industry> The liner shipping industry will see more consolidation, mergers and bankruptcies, which will in turn bring more stability to the market, according to Tim Smith, chairman of Maersk China.

Room with a view [lamenting today's accommodation blocks on ultra large boxships]. By Dick Welsh, Isle of Man Ship Registry. *Splash 24/7* [Online]. 24 November 2016. Available from: <http://splash247.com/room-with-a-view/> I wonder what ships might look like if we asked architects, rather than naval architects, to design the living accommodation.

USCG proposes rulemaking for Polar Ship certificates. *Safety 4 Sea* [Online]. 23 November 2016. Available from: <http://www.safety4sea.com/uscg-proposes-rulemaking-polar-ship-certificates/> The Coast Guard seeks comment on a notice of proposed rulemaking that would add the new Polar Ship Certificate to the list of certificates required to be carried on board all U.S. and foreign-flagged vessels subject to SOLAS which operate in Arctic and Antarctic waters.

Adding the Polar Ship Certificate to the List of SOLAS Certificates and Certificates Issued by Recognized Classification Societies. *US Federal Register* [Online]. 22 November 2016. Available from: <https://www.federalregister.gov/documents/2016/11/22/2016-27989/adding-the-polar-ship-certificate-to-the-list-of-solas-certificates-and-certificates-issued-by> This proposed rule would add a new Polar Ship Certificate to the list of existing certificates required to be carried on board all U.S. and foreign-flagged vessels subject to the International Convention for Safety of Life at Sea (SOLAS) and operating in Arctic and Antarctic waters, generally above 60 degrees north latitude and below 60 degrees south latitude lines.

Cabinet approves introduction of the revamped Merchant Shipping Bill 2016 in the Parliament and simultaneous repealing of the Merchant Shipping Act, 1958 and the Coasting Vessels Act, 1838. *Government of India* [Online]. 23 November 2016. Available from: <http://pib.nic.in/newsite/PrintRelease.aspx?relid=154201> The Merchant Shipping Bill, 2016 is a revamped version of the Merchant Shipping Act, 1958.

There's great potential in maritime heritage. By Paul Odhiambo. *Daily Nation (Kenya)* [Online]. 23 November 2016. Available from: <http://www.nation.co.ke/oped/Opinion/Theres-great-potential-in-maritime-heritage/440808-3462556-mvnmw4f/index.html> Leaders recently adopted the African Charter on Maritime Security, Safety and Development.

Africa and shipping – a mutually benefiting cooperation. *European Community Shipowners' Associations (ECSA)* [Online]. 23 November 2016. Available from: <http://www.ecsa.eu/9-latest-news/285> African governments and businesses are important partners of European shipping companies and the region has become one of the most promising global growth markets.

The Shipping Industry: Safer Than The Olden Days? *Clarkson Research Services Limited (CRSL)* [Online]. 25 November 2016. Available from: <https://clarksonresearch.wordpress.com/2016/11/25/the-shipping-industry-safer-than-the-olden-days/> Today's Shipping Intelligence Weekly comes on the 896th anniversary of what was, back then, one of the most catastrophic losses to hit shipping for many years.

Crew should have access to ship data. *Marine Electronics and Communications* [Online]. 25 November 2016. Available from: http://www.marinemec.com/news/view-crew-should-have-access-to-ship-data_45585.htm Tanker owners and managers are using increasing amounts of data that is sent from their ships to improve operations, reduce fuel consumption and optimise maintenance.

Transport minister invites Denmark, Norway to expand sea infrastructure. *Antara News (Indonesia)* [Online]. 28 November 2016. Available from: <http://www.antaraneews.com/en/news/108066> Minister of Transportation Budi Karya Sumadi invites Danish and Norwegian corporations to establish partnerships with Indonesia in the sea transport infrastructure sector.

Dubai Chamber and Dubai Maritime Authority to cooperatively support 'Maritime Dubai' initiative globally. *Government of Dubai* [Online]. 28 November 2016. Available from: <http://goo.gl/Qe5DZm> To further broaden awareness on the identity of the local maritime sector, the Dubai Maritime City Authority (DMCA) has announced that it will be cooperating with the Dubai Chamber of Commerce and Industry (DCCI) in supporting and globally promoting the 'Maritime Dubai' initiative.

Hanjin Shipping collapse may be the beginning of the end for profitable global trade. By David Dodwell. *South China Morning Post* [Online]. 27 November 2016. Available from: <http://www.scmp.com/business/global-economy/article/2049560/hanjin-shipping-collapse-may-be-beginning-end-profitable> Hanjin Sooho may mean nothing to you or I, but for perhaps thousands of Chinese exporters, the name is currently the source of despair, perhaps panic.

Philippines: Staying competitive in shipping. By Brenda V.Pimentel. *Manila Times* [Online]. 26 November 2016. Available from: <http://www.manilatimes.net/philippines-staying-competitive-shipping/298438/> This was the theme of the 2nd Business and Economic Briefing on Shipping and the Philippines convened by the Döhle Group last November 14.

First Polar certification for Norwegian vessel. *Norwegian Maritime Authority* [Online]. 25 November 2016. Available from: <https://www.sjofartsdir.no/en/news/news-from-the-nma/first-polar-certification-for-norwegian-vessel/> The Norwegian Maritime Authority had issued the first certification of a Norwegian vessel according to the Polar Code.

DMCA and Det Norske Veritas to explore future of maritime industry in research, development and innovation. *Government of Dubai* [Online]. 28 November 2016. Available from: <http://www.dmca.ae/en/NewsMediaCenter/PressReleases/NewsDetails.aspx?News=dmca.and.det.norske.veritas.to.explore.future.of.maritime.industry.in.research.development.and.innovation> In cooperation with Det Norske Veritas, one of the world's largest classification society of vessels, Dubai Maritime City Authority's (DMCA) 'Maritime Innovation' workshop recently concluded with high participation from maritime industry pioneers and other government entities such as DP World, Dry Docks World, Dubai Maritime City, JAFZA and Trakhees.

Insecurity: Insurance Firms Impose N2.3trn Premium On Nigeria-bound Ships. By Babalola Yusuf and Zaka Khaliq. *Leadership (Nigeria)* [Online]. 28 November 2016. Available from: <http://leadership.ng/news/561487/insecurity-insurance-firms-impose-n2-3trn-premium-on-nigeria-bound-ships> Foreign and local ship owners as well as charterers entering Nigeria's territorial and coastal waters are paying a whopping N2.3 trillion every year to foreign insurance companies to insure their ships against any attacks, Leadership has exclusively gathered.

What is an 'Eco-ship'? By David Glass. *Seatrade Maritime News* [Online]. 29 November 2016. Available from: <http://www.seatrade-maritime.com/news/europe/what-is-an-eco-ship.html> Headlines in the shipping press recently declared "Owners are failing to get the cost benefits of fuel efficiency" and that the "Market fails to reward owners of efficient ships".

Tighter marine fuel sulfur limits will spark changes by both refiners and vessel operators. *Bunker Ports News Worldwide* [Online]. 28 November 2016. Available from: <http://www.bunkerportsnews.com/News.aspx?ElementId=11bfd3a3-ae11-4714-83a9-ff759223f446> The sulfur content of transportation fuels has been declining for many years due to increasingly stringent regulations.

Two new SEA\LNG partners as pace quickens for LNG. Sea\LNG [Online]. 30 November 2016. Available from: <http://sea-lng.org/2016/11/29/two-new-sealng-partners-as-pace-quickens-for-lng/> SEA\LNG – which works to accelerate the widespread adoption of liquefied natural gas (LNG) as a marine fuel – has welcomed two new partners, each representing key aspects of the LNG maritime value chain.

Shipping is aggressively reducing CO2 emissions, but will this be enough to satisfy governments? By Simon Bennett. *International Association of Oil & Gas Producers (IOGP)* [Online]. 29 November 2016. Available from: <http://www.iogp.org/Newsroom/News/PostId/249> About 90% of world trade is carried by shipping, which is already the most energy efficient mode of commercial transport.

'LNG won't save us from harmful emissions, but it is a bridge to cleaner fuels'. By Alexander Whiteman. *The Loadstar* [Online]. 29 November 2016. Available from: <http://theloadstar.co.uk/lng-wont-save-us-harmful-emissions-bridge-cleaner-fuels/> Classification society DNV GL has dismissed claims that using LNG (liquefied natural gas) to power ships would emit harmful levels of methane and result in a zero saving in greenhouse gas emissions (GHGs).

Interview: Tackling the Rise of Vessel Traffic in the Arctic. *World Maritime News* [Online]. 29 November 2016. Available from: <http://worldmaritimenews.com/archives/207481/> Andrew Dumbrille, Senior specialist, sustainable shipping at WWF Panda, told World Maritime News that studies have shown that vessel traffic in the Canadian Arctic will double from 2010-2020 and double again from 2020-2030

Parker Review: Blueprint for a strong naval shipbuilding sector. By The Rt Hon Sir Michael Fallon MP. *UK Ministry of Defence* [Online]. 29 November 2016. Available from: <https://www.gov.uk/government/news/parker-review-blueprint-for-a-strong-naval-shipbuilding-sector> Sir John Parker's Independent Report into naval shipbuilding published today (29 November) sets out far-reaching recommendations to transform the United Kingdom's shipbuilding industry and boost the prosperity of shipyards and supply chains across the country.

UK National Shipbuilding Strategy: an independent report. By Sir John Parker. *UK Ministry of Defence* [Online]. 29 November 2016. Available from: <https://www.gov.uk/government/publications/uk-national-shipbuilding-strategy-an-independent-report> The strategy will lay the foundations for a modern, efficient and competitive sector capable of meeting the country's future defence and security needs.

Drewry says new alliance schedules won't ease Asia-Med overcapacity concerns. By Mike Wackett. *The Loadstar* [Online]. 28 November 2016. Available from: <http://theloadstar.co.uk/drewry-says-new-alliance-schedules-wont-ease-asia-med-overcapacity-concerns/> The Asia-Mediterranean trade is still "over-tonnaged", with headhaul ship utilisation below other major east-west markets, according to Drewry.

Panama Canal widening brings new headaches for Panamax owners. By Huileng Tan. *CNBC* [Online]. 28 November 2016. Available from: <http://www.cnbc.com/2016/11/28/panama-canal-widening-brings-new-headaches-for-panamax-owners.html> 🚢 Container ships less than a decade old are potentially on the block for scrap value as a widening of the Panama Canal earlier this year plays havoc with a market already under strain from a crash in freight rates.

Charting a Course to a Low Carbon Future. By Kitack Lim. *International Institute for Sustainable Development (IISD)* [Online]. 30 November 2016. Available from: <http://sdg.iisd.org/commentary/guest-articles/charting-a-course-to-a-low-carbon-future/> Most international trade is carried by ship, making shipping indispensable to the world.

Kinder Morgan expansion approval means more tanker traffic in Salish Sea. By Samantha Wohlfeil. *Bellingham Herald (US)* [Online]. 29 November 2016. Available from: <http://www.bellinghamherald.com/news/local/article117822178.html> More crude oil tanker traffic may traverse the Salish Sea off Whatcom County's coast, as Canadian Prime Minister Justin Trudeau announced Tuesday approval for the Kinder Morgan Trans Mountain pipeline expansion project.

RESEARCH

Marine science and technology transfer: Can the Intergovernmental Oceanographic Commission advance governance of biodiversity beyond national jurisdiction? By H. Harden-Davies. *Marine Policy*. [Online]. (2016). Available from: <http://www.sciencedirect.com/science/article/pii/S0308597X16303955> Abstract Marine scientific research is crucial to forge solutions in the development of a new international legally binding instrument for the conservation and sustainable use of marine biological diversity in areas beyond national jurisdiction (ABNJ) under the 1982 United Nations Convention on the Law of the Sea.

The role of microbial exopolymers in determining the fate of oil and chemical dispersants in the ocean. By A. Quigg, U. Passow et al. *Limnology and Oceanography Letters*. [Online]. (2016). Available from: <http://dx.doi.org/10.1002/lol2.10030> The production of extracellular polymeric substances (EPS) by planktonic microbes can influence the fate of oil and chemical dispersants in the ocean through emulsification, degradation, dispersion, aggregation, and/or sedimentation.

WhaleWatch: a dynamic management tool for predicting blue whale density in the California Current. By E. L. Hazen, D. M. Palacios et al. *Journal of Applied Ecology*. [Online]. (2016). Available from: <http://dx.doi.org/10.1111/1365-2664.12820> Blue whales *Balaenoptera musculus* are the world's largest animal and make seasonal basin-scale migrations from foraging to presumed breeding areas.

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About the cover

The CAB 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.