INTERNATIONAL MARITIME ORGANIZATION

MARITIME KNOWLEDGE CENTRE

"***sharing maritime knowledge***"

CURRENT AWARENESS BULLETIN

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IMO WORLD MARITIME DAY 2016
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Maritime Knowledge Centre
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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 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.

Email us if you would like to receive email notification when the most recent Current Awareness Bulletin is available to be downloaded.

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IMO / UNITED NATIONS NEWS & EVENTS

WHAT'S NEW

Secretary-General

Kitack Lim was elected Secretary-General of the Organization by the 114th session of the IMO Council in June 2015 for a four-year period beginning 1 January 2016. The election was endorsed by the IMO's Assembly at its 29th session in November 2015. Mr. Kitack Lim (Republic of Korea) is the eighth elected Secretary-General of the International Maritime Organization.

Biography

Mr. Lim was born in Masan, Gyeongsangnam-do, one of the major port cities in the Republic of Korea. He majored in nautical science at the Korea Maritime and Ocean University (KMOU), Busan, graduating in 1977. He worked on ships as a Korean naval officer and for Sanko Shipping Co. He joined the Korea Maritime and Port Administration in 1985, while continuing with further studies at the Graduate School of Administration, Yonsei University, obtaining a Master's Degree in 1990. He then studied maritime administration with a major in navigation at the World Maritime University (WMU), graduating with a master's degree. From 1995 he attended a doctoral programme for international law at KMOU, completing course work in 1998.

Mr. Lim began attending IMO meetings as part of the Republic of Korea's delegation in 1986, actively participating in maritime safety and environmental protection issues. From 1992, he engaged in activities to promote maritime safety through effective implementation of IMO conventions in his country and other IMO Member States in the Asian region. He was elected Chairman of the Tokyo Memorandum on Port State Control in 2004.

In 2006, Mr. Lim was appointed as Maritime Attaché, minister-counsellor at the Embassy of the Republic of Korea in London and led all IMO work for the Republic of Korea, serving as Deputy Permanent Representative to IMO up to August 2009.

Mr Lim was then appointed as Director General for Maritime Safety Policy Bureau at the Headquarters of the Ministry of Land, Transport and Maritime Affairs (MLTM). He led the delegation of the Republic of Korea to the IMO Assembly in 2009.

In March 2011, Mr. Lim was appointed Commissioner of the Korean Maritime Safety Tribunal (KMST). In July 2012, he assumed the position of President of Busan Port Authority.

A message from IMO Secretary-General Kitack Lim

PROGRAMME OF IMO MEETINGS FOR 2016, Meeting Summaries

Sub-Committee on Ship Design and Construction (SDC) 3rd session
18 – 22 January 2016

IMO PRESS BRIEFINGS

Criteria for entry into force of BWM Convention not yet reached – further ratifications needed
Briefing: 02, January 15, 2016

EC funding gives green light to ambitious IMO energy-efficiency project
Briefing: 01, January 12, 2016

IMO NEWS MAGAZINE **(Issue 4, 2015)**

IMO PUBLISHING Just Published: 2016 January 2016 Newsletter

UNITED NATIONS NEWS

Feature: From misplaced emblem in London to iconic hall - the UN General Assembly across 70 years. *UN News Centre* [Online]. 11 January 2016. Available from: http://www.un.org/apps/news/story.asp?NewsID=52973 Before there was a United Nations Secretary-General, a Security Council or an iconic Headquarters in New York, there was the General Assembly, the most representative body ever of world nations, meeting for the first time in a London hall facing Westminster Abbey.

UN General Assembly - 'Parliament for all people' - celebrates 70th anniversary. *UN News Centre* [Online]. 11 January 2016. Available from: http://www.un.org/apps/news/story.asp?NewsId=52975 Marking the 70th anniversary of the first meeting of the United Nations General Assembly Secretary-General Ban Ki-moon today said the body has truly become the "Parliament for all people."

Deputy UN chief presents new report on global migrant trends, highlighting rising numbers for 2015. *UN News Centre* [Online]. 12 January 2016. Available from: http://www.un.org/apps/news/story.asp?NewsId=52983 Presenting the key finding of the latest United Nations survey on international migrant trends, the UN Deputy Secretary-General today stressed that the issue of migration is one of the most challenging and important that the Organization is taking on in the new global landscape.

Secretary-General, in Briefing to General Assembly, States New Strategies for Preventing Violent Extremism, Addresses Large-Scale Refugee Movements. *United Nations* [Online]. 14 January 2016. Available from: http://www.un.org/press/en/2016/sgsm17460.doc.htm

UN must get 'priorities right' in 2016, Ban tells Member States, calling for 'more and better work'. *UN News Centre* [Online]. 14 January 2016. Available from: http://www.un.org/apps/news/story.asp?NewsID=53002 Sharing his thoughts on the direction of the United Nations' work in 2016, Secretary-General Ban Ki-moon today said the global community begins the year needing to get its "priorities right," while underlining that more and better work needs to be done.

Human Development Report 2015. *United Nations Development Programme (UNDP)* [Online]. 14 December 2015. Available from: http://report.hdr.undp.org/ Report 2015

UNHCR warns against perilous Horn of Africa sea crossings. *United Nations High Commissioner for Refugees (UNHCR)* [Online]. 19 January 2016. Available from: http://www.unhcr.org/569e3b19530.html Despite the ongoing conflict in Yemen, thousands of Ethiopians and Somalis are continuing to make a perilous sea crossing, which has already claimed at least three dozen lives this year, the UN Refugee Agency, UNHCR, has warned.

In Zurich, Ban calls strongly on governments to 'leave no one behind' in new era of global sustainability. *UN News Centre* [Online]. 22 January 2016. Available from: http://www.un.org/apps/news/story.asp?NewsId=53073 If the landmark Millennium Development Goals (MDGs) were a pact between donors and recipients, the 2030 Agenda must become must become the basis of a new social contract, United Nations Secretary-General Ban Ki-moon said today, urging governments to show strong ownership in the framework by aligning policies, legislation and resources so that people and the planet can benefit.

INTERVIEW: world's most difficult task - ensuring UN sustainable development agenda, says top adviser. *UN News Centre* [Online]. 27 January 2016. Available from: http://www.un.org/apps/news/story.asp?NewsID=53106 "It's about the toughest job any human being could be given" - that is how David Nabarro, the Secretary-General's Special Adviser on the 2030 Agenda for Sustainable Development, describes the task the United Nations chief entrusted to him last month.

CASUALTIES

NTSB Opens Public Docket on Investigation Into Cargo Ship Sinking; Underwater Images and Video Released. *US National Transportation Safety Board (NTSB)* [Online]. 3 January 2016. Available from: http://www.ntsb.gov/news/press-releases/Pages/PR01032016.aspx As part of its continuing investigation into the sinking of the cargo ship *El Faro* in the Atlantic Ocean in October, the National Transportation Safety Board has opened the accident docket and released underwater images and video of the vessel.

Seafarer dies as wave hits. By Nick Roumpis. *TradeWinds* [Online]. 4 January 2016. Available from: http://www.tradewindsnews.com/casualties/380607/seafarer-dies-as-wave-hits A Russian seafarer onboard a containership lost his life after a big wave hit the vessel's bow.

***Lamma IV* Tragedy: Inspector Pleads Not Guilty.** *Maritime Executive* [Online]. 6 January 2016. Available from: http://www.maritime-executive.com/article/lamma-iv-tragedy-inspector-pleads-not-guilty The inspector of the Hong Kong ferry *Lamma IV* has pleaded not guilty to perjury over his claim that that he saw an adequate number of children's life vests on board the vessel.

Malaysia-registered ferry hits barge. By Katherine Espina. *Lloyd's List* [Online]. 7 January 2016. Available from: http://www.lloydslist.com/ll/sector/ship-operations/article477023.ece A total of 156 passengers and crew on board a Malaysia-registered ferry were rescued after the vessel was in collision with a barge about 200 yards from a terminal in Semporna, a town in Sabah.

Concerns grow for animals on broken down livestock carrier. By Sam Chambers. *Splash 24/7* [Online]. 8 January 2016. Available from: http://splash247.com/concerns-grow-for-animals-on-broken-down-livestock-carrier/ Animal welfare groups are asking the Australian government to probe the livestock carrier, *Ocean Outback*.

MMA Cadets Salute Lost Shipmates at *El Faro* Site. *Maritime Executive* [Online]. 7 January 2016. Available from: http://www.maritime-executive.com/article/mma-cadets-salute-lost-shipmates-at-el-faro-site Students aboard the Maine Maritime Academy training ship State of Maine paid homage to the lost crew of the sunken cargo vessel *El Faro*.

Russian Ship Aground in Japan, 18 Evacuated. *World Maritime News* [Online]. 11 January 2016. Available from: http://worldmaritimenews.com/archives/180492/video-russian-ship-aground-in-japan-18-evacuated/ Some 18 people were evacuated from a Panama-flagged cargo ship after it ran aground on Sunday, December 10 on a breakwater at the approach to the Japanese Sakata port, the Sakata Coast Guard said.

***MV Ocean Outback*, update 10 January.** *Australian Government* [Online]. 10 January 2016. Available from: http://www.agriculture.gov.au/about/media-centre/media-releases/mv-ocean-outback-update3 On 9 January the Department of Agriculture and Water Resources, working closely with the Western Australia Department of Agriculture and Food (DAFWA) and the Australian Maritime Safety Authority (AMSA), approved a proposal by the exporter to manage livestock on board the *MV Ocean Outback*.

UK Coastguard coordinating incident involving cargo vessel fire off Cromer. *UK Maritime & Coastguard Agency* [Online]. 13 January 2016. Available from: http://hmcoastguard.blogspot.co.uk/2016/01/uk-coastguard-coordinating-incident.html#!/2016/01/uk-coastguard-coordinating-incident.html Two Coastguard helicopters, a lifeboat and two other vessels are assisting the crew of a ship which is on fire off Cromer.

Engineer dies in Falmouth ship lift crush. *BBC News* [Online]. 11 January 2016. Available from: http://www.bbc.co.uk/news/uk-england-cornwall-35288155 A 45-year-old engineer has died after being crushed while servicing a lift on a car ferry at Falmouth docks in Cornwall.

Bulk Carrier Sinks in East China Sea. *World Maritime News* [Online]. 12 January 2016. Available from: http://worldmaritimenews.com/archives/180639/bulk-carrier-sinks-in-east-china-sea/ Bulk carrier identified as China Star 107 that went missing for four days sank in East China Sea.

Collision tops causes of maritime accidents. By Matovu Abdallah Twaha. *Gulf Today (United Arab Emirates)* [Online]. 18 January 2016. Available from: http://gulftoday.ae/portal/07a7fa8a-5fff-4584-af44-2166e06e6a94.aspx Motorboat collision is still one of the major causes of accidents, said a Dubai Police Maritime boss.

Life at death yard. By Arun Bikash Dey. *Daily Star (Bangladesh)* [Online]. 16 January 2016. Available from: http://www.thedailystar.net/frontpage/life-death-yard-202612 Frequent accidents have been claiming lives or seriously injuring many workers in Chittagong shipbreaking yards over the years, largely due to lax safety measures and monitoring.

Abandoned ship 'weeks away' from spilling toxic crude oil into St. Lawrence. *Canadian Broadcasting Corporation (CBC)* [Online]. 18 January 2016. Available from: http://www.cbc.ca/news/canada/montreal/beauharnois-lake-st-louis-st-lawrence-cargo-ship-contaminated-spill-1.3408697 The City of Beauharnois is worried a rusting cargo ship in Lake St. Louis is at imminent risk of leaking millions of litres of contaminated water that could end up in the St. Lawrence River.

Passengers took to rubber duckies to escape. By Patrice Dougan, Moana Tapaleao, Susan Strongman, Katee Shanks, and Haylee King. *New Zealand Herald* [Online]. 18 January 2016. Available from: http://m.nzherald.co.nz/nz/news/article.cfm?c_id=1&objectid=11575754 Four people were injured and taken to hospital after ferry returning from the White Island volcano in the Bay of Plenty burst into flames.

Bangladeshi Ship-Breaking Yard Claims Another Victim. *World Maritime News* [Online]. 20 January 2016. Available from: http://worldmaritimenews.com/archives/181112/bangladeshi-ship-breaking-yard-claims-another-victim/ A worker died at a Bangladeshi ship-breaking yard in Sitakunda Upazila in the Chittagong District, in the morning hours of January 19 as he was hit by an iron bar falling from a ship, the NGO Shipbreaking Platform confirmed to World Maritime News.

Crew Forced to Abandon Sinking Trawler, Collision Suspected. *Maritime Executive* [Online]. 19 January 2016. Available from: http://www.maritime-executive.com/article/suspected-collision-forces-trawler-crew-to-abandon-ship The crew of the fishing trawler *Lezandi* were rescued from their life raft after their vessel foundered in dense fog 10 nm off the coast of South Africa, possibly due to a collision with the bulk carrier *Sunrise Jade*.

Interim Report 2/2016: Capsize and sinking of cement carrier *Cemfjord* with the loss of all eight crew. *UK Marine Accident Investigation Branch (MAIB)* [Online]. 20 January 2016. Available from: https://www.gov.uk/maib-reports/capsize-and-sinking-of-cement-carrier-cemfjord-with-the-loss-of-all-eight-crew Report

Interim Report 2/2016: Listing, flooding and grounding of pure car and truck carrier *Hoegh Osaka*. *UK Marine Accident Investigation Branch (MAIB)* [Online]. 18 January 2016. Available from: https://www.gov.uk/maib-reports/listing-flooding-and-grounding-of-pure-car-and-truck-carrier-hoegh-osaka Report

Human Error Caused Ramming of Lock Gate. *Maritime Executive* [Online]. 20 January 2016. Available from: http://www.maritime-executive.com/article/human-error-caused-ramming-of-lock-gate The German Federal Bureau of Maritime Casualty Investigation (BSU) has released a report into the collision of the special purpose dive support vessel *Red7 Alliance* with a lock in Germany, noting both human error and a potential lack of control system functionality.

Investigation report 16/15 - Collision between the *MV RED7 ALLIANCE* and a lock gate at Brunsbüttel on 17 January 2015. *Federal Bureau of Maritime Casualty Investigation (Germany)* [Online]. 15 January 2016. Available from: http://goo.gl/2yLviJ

Vietnamese ship sinks following tanker collision. By Sam Chambers. *Splash 24/7* [Online]. 26 January 2016. Available from: http://splash247.com/vietnamese-ship-sinks-following-tanker-collision/ All 14 crewmembers of a Vietnamese general cargo ship were rescued after it collided with a tanker while sailing off Yangon in Myanmar yesterday, according to the Vietnam Maritime Rescue Coordination Center.

VIDEO: 22 Evacuated as Car Carrier Lists in Bay of Biscay. *World Maritime News* [Online]. 27 January 2016. Available from: http://worldmaritimenews.com/archives/181636/video-22-evacuated-as-car-carrier-lists-in-bay-of-biscay/ A crew of 22 people were evacuated after the Panama-flagged car carrier *Modern Express* started listing some 148 miles off Cape Ortegal, Galicia, in the Bay of Biscay, according to Spanish search and rescue agency Salvamento Maritimo.

Hearing set for Coast Guard Marine Board of Investigation into *EL FARO* sinking. *US Coast Guard Newsroom* [Online]. 26 January 2016. Available from: http://www.uscgnews.com/go/doc/4007/2778590/ The U.S. Coast Guard will conduct a public Marine Board of Investigation hearing into the loss of the United States-flagged steam ship *EL FARO*, and its 33 crewmembers.

SUPSALV & Finding *El Faro*. By Greg Trauthwein. *MarineLink.Com* [Online]. 26 January 2016. Available from: http://www.marinelink.com/news/supsalv-finding-faro404042.aspx Last month we were offered an in-depth discussion on marine salvage with Captain Gregg W. Baumann, U.S. Navy, Director of Ocean Engineering, Supervisor of Salvage and Diving.

ENVIRONMENT

Seychelles dodges 'debt hole' with pledge to protect oceans. *Climate Home* [Online]. 4 January 2016. Available from: http://www.climatechangenews.com/2016/01/04/seychelles-dodges-debt-hole-with-pledge-to-protect-oceans/ Climate ambassador of tiny island nation hails innovative debt swap in return for agreement to safeguard vast area of sea.

After Paris: Fiscal, Macroeconomic and Financial Implications of Global Climate Change. By Mai Farid, Michael Keen, Michael G. Papaioannou, Ian W. H. Parry, Catherine A. Pattillo and Anna Ter-Martirosyan. *International Monetary Fund (IMF)* [Online]. 11 January 2016. Available from: http://www.imf.org/external/pubs/cat/longres.aspx?sk=43484 This paper discusses the implications of climate change for fiscal, financial, and macroeconomic policies. Discussion Paper

Giant icebergs play key role in removing CO_2 from the atmosphere. *University of Sheffield* [Online]. 11 January 2016. Available from: http://www.sheffield.ac.uk/news/nr/giant-icebergs-remove-co2-from-atmosphere-1.538818 Pioneering research from the University of Sheffield's Department of Geography discovered melting water from giant icebergs, which contains iron and other nutrients, supports hitherto unexpectedly high levels of phytoplankton growth.

How the Japanese tsunami sent marine invaders across the ocean. By Emma Johnston and Jim Carlton. *University of New South Wales (Australia)* [Online]. 18 January 2016. Available from: http://newsroom.unsw.edu.au/news/science-tech/how-japanese-tsunami-sent-marine-invaders-across-ocean When the tsunami waters withdrew from the devastated coast of Japan in March 2011 they took with them a vast amount of debris consisting of potentially millions of objects, and sent it rafting across the Pacific Ocean.

Ocean absorption of man-made heat accelerates at colossal rate. *Canadian Broadcasting Corporation (CBC)* [Online]. 18 January 2016. Available from: http://www.cbc.ca/news/technology/ocean-heat-1.3408706 A colossal amount of man-made heat has been sucked up by the world's oceans in the past 18 years, and the rate at which that happens has been accelerating - but that's not nearly as good as it sounds.

Industry Insight: Sustainable Marine Biofuel - Scaling-Up for a Crucial Role in a Low Emission Future for Shipping. By Dirk Kronemeijer. *Ship & Bunker* [Online]. 20 January 2016. Available from: http://goo.gl/KLkMBl The world has come together around an agreement that will empower us to chart a new path for our planet, a smart and responsible path, a sustainable path.

Still waters: Pakistan's coastline of apathy. By Irfan Ghauri. *The Tribune (Pakistan)* [Online]. 19 January 2016. Available from: http://tribune.com.pk/story/1030431/still-waters-pakistans-coastline-of-apathy/ Pakistan's maritime zone is approximately 30% of its land mass - a region bigger than Punjab.

WWF: The Mediterranean Sea won't sustain our economy if we don't turn the tide now. *WWF* [Online]. 19 January 2016. Available from: http://goo.gl/BpQmip The Mediterranean region is currently facing impressive growth, a real "blue Gold Rush". MEDTRENDS Project illustrates and maps the main scenarios of marine economic Med-EU countries for the next 20 years. MEDTRENDS

A new study puts temperature increases caused by CO2 emissions on the map. *Concordia University (Canada)* [Online]. 20 January 2016. Available from: http://goo.gl/ZkS1TD Earth's temperature has increased by 1°C over the past century, and most of this warming has been caused by carbon dioxide emissions. Regional estimates of the transient climate response to cumulative CO2 emissions

North and Baltic Seas threatened by human activity. By Dagmar Dehmer. *EurActiv* [Online]. 22 January 2016. Available from: http://www.euractiv.com/sections/climate-environment/north-and-baltic-seas-threatened-human-activity-321219 Germany's marine agency has presented its findings regarding the state of the North and Baltic Seas, with human activity threatening animal life and the environment.

France calls on world leaders to give Paris climate deal 'new push'. By Fiona Harvey. *The Guardian* [Online]. 22 January 2016. Available from: http://www.theguardian.com/environment/2016/jan/22/france-calls-world-leaders-paris-climate-deal-new-push-cop-21-international-law World leaders should give international efforts to fight global warming a new push by ratifying the historic Paris climate deal in person, according to France's foreign minister.

Royal Caribbean Cruises Ltd. and World Wildlife Fund (WWF) announce global partnership to support ocean conservation. *Royal Caribbean Press Centre* [Online]. 25 January 2016. Available from: http://goo.gl/8XjlO4 The partners will set measurable and achievable sustainability targets that will reduce Royal Caribbean's environmental footprint, raise awareness about ocean conservation among the company's more than five million guests, and support WWF's global oceans conservation work.

Marine scientists to use navy techniques to study whales. By James Thomson. *Globe and Mail (Canada)* [Online]. 25 January 2016. Available from: http://www.theglobeandmail.com/news/british-columbia/marine-scientists-to-use-navy-techniques-to-study-whales/article28390814/ When Randy Musseau stood in a conference room in Halifax this week to teach the navy's basic course in the field of passive acoustics, he had an unusual group of pupils: marine scientists who are among the first-ever civilian students to learn the military's techniques for listening to the ocean.

2015 is hottest year on record. *World Meteorological Organization (WMO)* [Online]. 25 January 2016. Available from: https://www.wmo.int/media/content/2015-hottest-year-record The global average surface temperature in 2015 broke all previous records by a strikingly wide margin, at 0.76±0.1° Celsius above the 1961-1990 average.

ENVIRONMENTAL POLLUTION

More Plastic than Fish in the Ocean by 2050: Report Offers Blueprint for Change. *World Economic Forum* [Online]. 19 January 2016. Available from: http://www.weforum.org/press/2016/01/more-plastic-than-fish-in-the-ocean-by-2050-report-offers-blueprint-for-change Most plastic packaging is used only once; new report reveals that 95% of the value of plastic packaging material, worth $80 billion-$120 billion annually, is lost to the economy. The New Plastics Economy Rethinking the future of plastics

Heavy fuel oil: A threat to Arctic environment, people. By Sue Libenson. *Alaska Dispatch News* [Online]. 24 January 2016. Available from: https://www.adn.com/article/20160124/heavy-fuel-oil-threat-arctic-environment-people Today, the Arctic faces a modern challenges.

Where is the oil in the Gulf? By Kathleen Haughney. *Florida State University* [Online]. 25 January 2016. Available from: http://news.fsu.edu/Top-Stories/Where-is-the-oil-in-the-Gulf A Florida State University researcher and his team have developed a comprehensive analysis of oil in the Gulf of Mexico and determined how much of it occurs naturally and how much came from the 2010 Deepwater Horizon spill.

HEALTH

Latest Ebola outbreak over in Liberia; West Africa is at zero, but new flare-ups are likely to occur. *World Health Organization (WHO)* [Online]. 14 January 2016. Available from: http://www.who.int/mediacentre/news/releases/2016/ebola-zero-liberia/en/ Today, WHO declares the end of the most recent outbreak of Ebola virus disease in Liberia and says all known chains of transmission have been stopped in West Africa.

New Ebola case in Sierra Leone. WHO continues to stress risk of more flare-ups. *World Health Organization (WHO)* [Online]. 15 January 2016. Available from: http://www.who.int/mediacentre/news/statements/2016/new-ebola-case/en/ A new case of Ebola has been confirmed in Sierra Leone, reflecting the ongoing risk of new flare-ups of the virus in the Ebola-affected countries.

UN health agency urges vigilance in South-East Asia after new case of MERS confirmed in Thailand. *UN News Centre* [Online]. 24 January 2016. Available from: http://www.un.org/apps/news/story.asp?NewsID=53079 The United Nations health agency cautioned South-East Asia States today to remain vigilant against the continuing risks of Middle East respiratory syndrome coronavirus (MERS CoV) after Thailand confirmed the sometimes fatal disease in a traveller, its second case in seven months.

Twenty countries in the Americas reporting cases of Zika virus - UN health agency. *UN News Centre* [Online]. 22 January 2016. Available from: http://www.un.org/apps/news/story.asp?NewsID=53070 Twenty countries in the Americas and about 10 in Africa, Asia and the Pacific have reported cases of the mosquito-borne Zika virus infection according to information delivered today by the UN World Health Organization (WHO).

WHO to convene an International Health Regulations Emergency Committee on Zika virus and observed increase in neurological disorders and neonatal malformations. *World Health Organization (WHO)* [Online]. 28 January 2016. Available from: http://www.who.int/mediacentre/news/statements/2016/emergency-committee-zika/en/
WHO Director-General, Margaret Chan, will convene an International Health Regulations Emergency Committee on Zika virus and observed increase in neurological disorders and neonatal malformations.

HEALTH AND SAFETY

Alarm over fatigue sees IMO react. By Adam Corbett. *TradeWinds* [Online]. 22 January 2016. Available from: http://www.tradewindsnews.com/weekly/382049/alarm-over-fatigue-sees-imo-react A new set of guidelines on avoiding and recognising fatigue among seafarers is being drawn up as shipping's main regulator acts on increasing pressure from its member states to address the critical safety issue that is still a major contributor to ship casualties.

Investigation Update on the *Crown Princess*. *US Centers for Disease Control and Prevention (CDC)* [Online]. 19 January 2016. Available from: http://www.cdc.gov/nceh/vsp/surv/outbreak/2016/january3_crown_princess.htm
Two CDC Vessel Sanitation Program environmental health officers and one epidemiologist boarded the ship in Los Angeles, CA, on January 18, 2016, to conduct an environmental health assessment and evaluate the outbreak and response activities.

IMO

Loophole Discovered in Ballast Water Convention. By Jad Mouawad. *Maritime Executive* [Online]. 7 January 2016. Available from: http://www.maritime-executive.com/editorials/loophole-discovered-in-ballast-water-convention While making fleet plans for ship owners for retrofitting of ballast water management system, we came by this interesting dilemma regarding the implementation dates of the D-2 standard, following Assembly Resolution A.1088 (28) dated January 28, 2014.

Aronnax: The irony at the IMO. By Craig Eason. *Lloyd's List* [Online]. 11 January 2016. Available from: http://www.lloydslist.com/ll/sector/regulation/article477108.ece The first chance to see whether politicians and bureaucrats intend to in fact abide by the wording of the Paris climate deal will be in April at the International Maritime Organization.

Meeting discusses IMO audit scheme. *Oman Tribune* [Online]. 12 January 2016. Available from: http://www.omantribune.com/index.php?page=news&id=201494 A coordination meeting was held at the Ministry of Transport and Communications on Monday to discuss the readiness of mandatory audit scheme of the International Maritime Organisation (IMO) with all member states.

The continuing debacle over ratifying the ballast water convention. By Marcus Hand. *Seatrade Maritime News* [Online]. 19 January 2016. Available from: http://www.seatrade-maritime.com/news/americas/the-continuing-debacle-over-ratifying-the-ballast-water-convention.html Late Friday last week brought the news that the Ballast Water Management (BWM) Convention had now entered its 12th year without being ratified, that despite promise that it was most likely to make the grade in late November 2015.

Indispensable me. By Michael Grey. *Lloyd's List* [Online]. 25 January 2016. Available from: http://www.lloydslist.com/ll/sector/ship-operations/article477200.ece I hope that you are suitably enthused with the 2016 "theme" of the International Maritime Organization, which should be a sort of standard around which the troops can be rallied as the year progresses.

LAW AND POLICY

Three drunk crew held. By Gary Dixon. *TradeWinds* [Online]. 4 January 2016. Available from: http://www.tradewindsnews.com/casualties/380625/three-drunk-crew-held A trio of seafarers have been arrested in Denmark after their Russian cargoship was seen to go off course.

Authorities strengthen control of ships' sulphur emissions. *Danish Environmental Protection Agency* [Online]. 6 January 2016. Available from: http://goo.gl/J52j5v Today, the Environmental Protection Agency and the Danish Maritime Authority publish an action plan for 2016 with the purpose of strengthening enforcement of regulations on ships' sulphur emissions in both Denmark and the SECA countries. Action plan 2016

South Korea Orders Registration of All Bunker Tankers. *Ship & Bunker* [Online]. 6 January 2016. Available from: http://shipandbunker.com/news/apac/769449-south-korea-orders-registration-of-all-bunker-tankers A new order from South Korea's Ministry of Oceans and Fisheries means by mid-2017 all bunker tankers, and petroleum, oil, and lubricants (POL) tankers dedicated providing marine fuel at the country's ports will have be registered.

Decision on Bunker-Related Arrest "Radically" Altered Australian Maritime Law Enforcement. *Ship & Bunker* [Online]. 7 January 2016. Available from: http://shipandbunker.com/news/apac/844947-decision-on-bunker-related-arrest-radically-altered-australian-maritime-law-enforcement Maurice Thompson and Joel Cockerell of Clyde & Co LLP (Clyde & Co) say that Australian maritime law has been "radically" altered after a recent decision on maritime lien enforcement in relation to bunker supply contracts was handed down in an Australian court.

India firearms charge ex-soldiers sent to jail. *BBC News* [Online]. 11 January 2016. Available from: http://www.bbc.co.uk/news/uk-england-35279074 Six former soldiers from the UK who worked on an anti-piracy ship have each been sentenced to five years in prison in India.

Human Rights at Sea comments on Indian judicial sentence of *MV Seaman Guard Ohio* Crew. By David Hammond. *Human Rights at Sea (HRAS)* [Online]. 11 January 2016. Available from: https://www.humanrightsatsea.org/press-release-human-rights-at-sea-comments-on-indian-judicial-sentence-of-seaman-guard-ohio-crew/ It has been reported this morning that the principal sessions court in Tuticorin in Tamil Nadu, India, sentenced 35 crew members of the US anti-piracy vessel *MV Seaman Guard Ohio* to five years imprisonment.

Turkish Parliament to ratify maritime convention for protection of seafarers. *Today's Zaman (Turkey)* [Online]. 8 December 2016. Available from: http://www.todayszaman.com/national_turkish-parliament-to-ratify-maritime-convention-for-protection-of-seafarers_409173.html A parliamentary commission has approved the Maritime Labour Convention, which addresses some of the difficulties encountered by Turkish seafarers in international ports.

Against our laws - How anti-piracy ships are a threat to Indian security. By Jaya Menon. *Times of India* [Online]. 12 January 2016. Available from: http://epaperbeta.timesofindia.com/Article.aspx?eid=31807&articlexml=AGAINST-OUR-LAWS-How-anti-piracy-ships-are-12012016005038 *MV Seaman Guard Ohio* straying into Indian territorial waters off Kanyakumari coast on October 12, 2013 has more to do with heightened concerns about security threat to India than mere maritime breach.

MSDF ready to 'police' incursions near Senkaku Islands, Suga says. By Reiji Yoshida. *Japan Times* [Online]. 12 January 2016. Available from: http://www.japantimes.co.jp/news/2016/01/12/national/politics-diplomacy/japan-ready-mobilize-msdf-senkakus-standoff-suga-says/ The Abe administration is ready to mobilize the Maritime Self-Defense Force for "a maritime policing operation" if a foreign warship enters Japanese territorial waters and its navigation does not constitute "innocent passage" under international law, Chief Cabinet Secretary Yoshihide Suga said Tuesday.

***Seaman Guard Ohio* Crew Found Guilty in India.** *Mission to Seafarers* [Online]. 11 January 2016. Available from: http://www.missiontoseafarers.org/index.php/media-centre/news/297/seaman-guard-ohio-crew-found-guilty-in-india 35 crewmen including 6 British nationals have been sentenced to 5 years in prison on charges of carrying illegal arms, illegal refuelling and unlawfully entering Indian waters off the coast of Tuticorin on 18 October 2013.

Britons offering protection against pirates facing five years in Indian jail. By Jason Burke and Sandhya Ravishankar. *The Guardian* [Online]. 11 January 2016. Available from: http://www.theguardian.com/world/2016/jan/11/britons-offering-protection-against-pirates-facing-five-years-in-indian-jail Six former British soldiers working for a private "anti-pirate" security company have been sentenced to five years in prison in India after a court upheld a conviction for possession of illegal arms.

Man accused of being captain of capsized migrant ship on trial in Italy. By Stephanie Kirchgaessner. *The Guardian* [Online]. 12 January 2016. Available from: http://www.theguardian.com/world/2016/jan/12/man-accused-of-being-captain-of-capsized-migrant-ship-on-trial-in-italy The criminal trial of a man accused of being the captain of a migrant ship that capsized last year, killing up to 800 people, is due to begin today in the Sicilian city of Catania.

Prawit positive on IUU fishing clampdown. By Jeerapong Prasertpolkrung. *The Nation (Thailand)* [Online]. 13 January 2016. Available from: http://www.nationmultimedia.com/national/Prawit-positive-on-IUU-fishing-clampdown-30276741.html Deputy Prime Minister General Prawit Wongsuwan boasted yesterday that Thailand was fully prepared to report on the progress of its clampdown on illegal, unreported and unregulated (IUU) fishing to the European Union this month.

20 ships detained through CIC on crew familiarization for enclosed space entry. *Black Sea MOU Secretariat* [Online]. 11 January 2016. Available from: http://goo.gl/gYlxT4

Spokesman: US marines' entry to Iranian territorial water was not hostile. *Islamic Republic News Agency- IRNA (Iran)* [Online]. 13 January 2016. Available from: http://www.irna.ir/en/News/81919643/ Foreign Ministry spokesman Hossein Jaberi Ansari said on Wednesday that entry of the US Navy boats to Iranian territorial waters was not hostile.

Maritime board to be formed. *Government of Hong Kong* [Online]. 13 January 2016. Available from: http://www.news.gov.hk/en/categories/finance/html/2016/01/20160113_110511.shtml The Government will merge the Maritime Industry Council and the Port Development Council to form the new Maritime & Port Board, Chief Executive CY Leung announced at his 2016 Policy Address today.

Flag of Convenience Dispute Comes to a Head as Guards Seize Domestic Freight Vessel. *Handy Shipping Guide* [Online]. 13 January 2016. Available from: http://www.handyshippingguide.com/shipping-news/flag-of-convenience-dispute-comes-to-a-head-as-guards-seize-domestic-freight-vessel_6909 One can only imagine what would be the reaction if the action taken today by US headquartered aluminium industry giant Alcoa had happened in an American port.

Turkish Ship Management Company and Two Employees Plead Guilty in Maryland to Environmental Crimes. *US Department of Justice* [Online]. 14 January 2016. Available from: http://www.justice.gov/opa/pr/turkish-ship-management-company-and-two-employees-plead-guilty-maryland-environmental-crimes Shipping Company to Pay Over $1 Million Criminal Fine for Marine Oil Pollution Crime.

State of Play: Measures to Address the Refugee Crisis. *European Commission* [Online]. 18 January 2016. Available from: http://europa.eu/rapid/press-release_IP-15-6134_en.htm?locale=en The European Agenda on Migration adopted by the Commission in May 2015 set out the need for a comprehensive approach to migration management.

Continental shelf extension a gateway to future dividend. By Salman Ahmed Khan. *News International (Pakistan)* [Online]. 18 January 2016. Available from: http://www.thenews.com.pk/print/91942-Continental-shelf-extension-a-gateway-to-future-dividend On 13 March, 2015 UN Commission on the Limits of Continental Shelf (UNCLCS) accepted recommendations for extension of the outer limits of continental shelf on Pakistan's case.

South Korea Joins Global Effort to Close Ports to Illegally Caught Fish. By Toby Long. *Pew Charitable Trusts* [Online]. 15 January 2016. Available from: http://www.pewtrusts.org/en/research-and-analysis/analysis/2016/01/15/south-korea-joins-global-effort-to-close-ports-to-illegally-caught-fish On Jan. 14, the Republic of Korea joined the 18 other governments that have ratified the Port State Measures Agreement (PSMA), an international treaty designed to stop illegal, unreported, and unregulated (IUU) fishing.

2016 brings step change in EU sulfur inspections. By Unni Einemo. *Bunkerworld* [Online]. 18 January 2016. Available from: http://www.bunkerworld.com/news/140543? The inspection regime put in place by the European Union (EU) to ensure that ships comply with emission control area (ECA) sulfur limits is tightening significantly this year as new minimum requirements for sampling of ships' fuels kicks in.

Iran Sanctions: Implications of Implementation Day. By Paul Sessions. *UK P&I Club* [Online]. 18 January 2016. Available from: http://www.ukpandi.com/knowledge/article/iran-sanctions-implications-of-implementation-day-134325/ Implementation Day, which is 16th January 2016, marks the day on which it was verified that Iran implemented its nuclear-related commitments of the JCPOA.

Emission control areas come to China - MOT sets schedule of mandates. *Shipping Online (China)* [Online]. 21 January 2016. Available from: http://www.shippingonline.cn/news/newsContent.asp?id=37040 China's Ministry of Transport (MOT) has announced the schedules of new rule affecting ship emissions with ever stricter measures being introduced on January 1, 2017, 2018 and 2019.

MEPs urge EU to revisit long-term climate goals, issue warning on GHGs from aviation and shipping. By Ben Garside. *Carbon Pulse* [Online]. 20 January 2016. Available from: http://carbon-pulse.com/14428/ Several senior MEPs have raised the prospect of the EU deepening its long-term emission reduction goals in the light of the Paris Agreement, with one suggesting that current efforts to tackle global aviation emissions might not be enough to prevent a return to unilateral action by the bloc.

China says oil rig not drilling in disputed waters after Vietnam complains. By Ben Blanchard and Adam Rose. *Reuters* [Online]. 20 January 2016. Available from: http://uk.reuters.com/article/uk-southchinasea-china-vietnam-idUKKCN0UY0XA China's Foreign Ministry said on Wednesday that a $1-billion deepwater oil rig was not drilling in disputed territory in the South China Sea, in response to a warning from Vietnam against such activity.

Ten *El Faro* Victims' Families Settle with TOTE Maritime. *World Maritime News* [Online]. 26 January 2016. Available from: http://worldmaritimenews.com/archives/181579/ten-el-faro-victims-families-settle-with-tote-maritime/ The families will receive USD 500,000 each, as well as an undisclosed amount for lost wages and other losses.

Court: Italy wants new hearing in Lampedusa migrants human rights complaint. *Council of Europe* [Online]. 27 January 2016. Available from: http://www.humanrightseurope.org/2016/01/court-italy-wants-new-hearing-in-lampedusa-migrants-human-rights-complaint/ Legal authorities in Italy want the European court to reconsider its judgement that the detention of Tunisian migrants on the island of Lampedusa breached human rights law.

Historic PH-Indonesia Maritime Treaty Submitted for Senate Approval. *Senate of the Philippines* [Online]. 27 January 2016. Available from: http://www.senate.gov.ph/press_release/2016/0127_marcos1.asp A historic maritime treaty between the Philippines and Indonesia that draws maritime boundary between the two countries may soon take effect after more than two decades of negotiations.

8 sailors accused of dumping diesel inside UAE maritime borders. By Bassam Za'ra'. *Gulf News* [Online]. 26 January 2016. Available from: http://gulfnews.com/news/uae/courts/8-sailors-accused-of-dumping-diesel-inside-uae-maritime-borders-1.1660405 Eight sailors have been accused of polluting the environment by dumping diesel in UAE seawaters after they illegally sailed in a zone of offshore drilling oil rigs, a court heard on Tuesday.

Spain court finds captain, insurer liable for *Prestige* oil spill. *France 24* [Online]. 27 January 2016. Available from: http://www.france24.com/en/20160126-spain-court-finds-captain-insurer-liable-prestige-oil-spill Spain's Supreme Court said Tuesday it had found the captain, the British insurer and the owner of the *Prestige* tanker that sank in 2002 liable for a devastating oil spill, one of Europe's worst environmental disasters.

Captain found guilty of 'gross negligence' over *Prestige* spill. *The Local (Spain)* [Online]. 26 January 2016. Available from: http://www.thelocal.es/20160126/captain-found-guilty-of-gross-negligence-over-prestige-oil-spill Spain's Supreme Court said on Tuesday it had found the captain, the British insurer and the owner of the *Prestige* tanker that sank in 2002 liable for a devastating oil spill, one of Europe's worst environmental disasters.

ITF backs *Seaman Guard Ohio* appeal. *International Transport Workers' Federation* [Online]. 26 January 2016. Available from: http://www.itfglobal.org/en/news-events/press-releases/2016/january/itf-backs-seaman-guard-ohio-appeal/ ITF seafarers' section chair Dave Heindel said: "We have now completed a full legal analysis of the court's judgment and we firmly believe there are grounds for appeal.

New European Counter Terrorism Centre launched. *European Commission* [Online]. 25 January 2016. Available from: http://ec.europa.eu/news/2016/01/20160125_en.htm As foreseen in the European Agenda on Security 2015-2020 put forward by the European Commission, Europol's new European Counter Terrorism Centre was launched today. It will significantly reinforce Europol's counter-terrorism capabilities.

Tension grows between Brussels and Athens over Schengen rules. *EurActiv* [Online]. 28 January 2016. Available from: http://www.euractiv.com/sections/justice-home-affairs/tension-grows-between-brussels-and-athens-over-schengen-rules-321380 The European Union blasted Athens for its handling of the migrant crisis Wednesday (27 January), saying it had "seriously neglected" its duty to protect the bloc's frontiers, raising the prospect of border controls with the rest of the passport-free zone.

Desmi to appeal US ballast water rule. By Michael Angell. *TradeWinds* [Online]. 27 January 2016. Available from: http://www.tradewindsnews.com/liner/383475/desmi-to-appeal-us-ballast-water-rule A firm spun off from Maersk Group says it will fight a US Coast Guard (USCG) decision on how to test the efficacy of ballast water treatment systems (BWTS).

MARINE TECHNOLOGY

IUMI outlines obstacles facing development of unmanned ships. By Sam Chambers. *Splash 24/7* [Online]. 4 January 2016. Available from: http://splash247.com/iumi-warns-on-obstacles-facing-development-of-unmanned-ships/ A report from the International Union of Marine Insurance lays out many of the obstacles facing shipping's quest for unmanned vessels.

Unmanned craft tested in weather buoy role. By Kevin Tester. *Marine Professional / IMarEST* [Online]. 6 January 2016. Available from: http://www.imarest.org/themarineprofessional/item/2066-unmanned-craft-tested-in-weather-buoy-role A wave-powered unmanned surface vessel (USV) was recently tested as a remote controlled mobile weather buoy in a joint trial carried out by MOST AV, Plymouth Marine Laboratories (PML) and the Met Office.

Intelligent sensors that map out the presence of chemical pollutants in the sea. *Phys Org* [Online]. 11 January 2016. Available from: http://phys.org/news/2016-01-intelligent-sensors-presence-chemical-pollutants.html Developed at the Polytechnic University of Valencia, the sensors not only detect pollutants in very small quantities, but also work to establish the exact size and location of the polluted area.

Autonomous herrings. By Michael Grey. *Lloyd's List* [Online]. 11 January 2016. Available from: http://www.lloydslist.com/ll/sector/ship-technology/article477075.ece Why are numbers of marine professionals so enthused with the notion of autonomous ships?

Zero emissions featured with new Wärtsilä ferry concept. *Wärtsilä Corporation* [Online]. 13 January 2016. Available from: http://www.wartsila.com/media/news/13-01-2016-zero-emissions-featured-with-new-wartsila-ferry-concept A complete concept for a series of innovative and cost effective shuttle ferries, featuring zero or low emissions, is being launched by Wärtsilä.

Emissions data gathering unit unveiled. *Tanker Operator* [Online]. 15 January 2016. Available from: http://www.tankeroperator.com/news/emissions-data-gathering-unit-unveiled/7306.aspx This unit has been specifically designed for maritime use by marine engineers.

Innovation paving the way for marine industry in 2016. By Tim Schweikert. *GE Power Conversion* [Online]. 18 January 2016. Available from: http://www.gepowerconversion.com/inspire/innovation-paving-way-marine-industry-2016 From the price of oil to environmental regulation, 2015 was a year of turmoil and uncertainty for the marine sector.

Using Tankers for Municipal Waste Water Disposal. By Harry Valentine. *Maritime Executive* [Online]. 27 January 2016. Available from: http://www.maritime-executive.com/editorials/using-tankers-for-municipal-waste-water-disposal Management Professor C. K. Prahalad authored a treatise in which he explored new business opportunities that result from the convergence of technologies, a concept based on lateral thinking and one where it is possible to envisage tankers being used to deliver municipal waste to new forms of desert agriculture.

Seal Whiskers Inspire Marine Technology. By Heather Beem. *Woods Hole Oceanographic Institution* [Online]. 27 January 2016. Available from: http://www.whoi.edu/oceanus/feature/seal-whiskers-inspire-marine-technology Like many other animals, seals can use their whiskers to touch objects to determine their size, shape, and distance away.

MARITIME SAFETY

9 Fundamental Conditions to Check While Inspecting Tanks Onboard Ships. By Bikram Singh. *Marine Insight* [Online]. 4 January 2016. Available from: http://www.marineinsight.com/guidelines/inspecting-tanks-onboard-ships/ Enclosed spaces are a fundamental component to the ship's structure and are also circuitously critical for the economics of running the shipping company.

Stranded ship sets alarm bells ringing. By Sharad Vyas. *The Hindu (India)* [Online]. 1 January 2016. Available from: http://www.thehindu.com/todays-paper/stranded-ship-sets-alarm-bells-ringing/article8052886.ece A dead vessel stranded off the coast off North Maharashtra near Hazira, Gujarat, has set the alarm bells ringing with a possibility that it may be carrying organic pollutants and radioactive substances.

Coast Guard detains container ship in Seattle after safety violations are found. *US Coast Guard Newsroom* [Online]. 5 January 2016. Available from: http://www.uscgnews.com/go/doc/4007/2772730/ Coast Guard personnel detained the bulk carrier ship *Lowlands Kamsar* in Seattle, Monday, after a Port State Control exam detected several significant violations.

Enhancing RI's maritime safety. By Muhammad Taufan. *Jakarta Post* [Online]. 6 January 2016. Available from: http://www.thejakartapost.com/news/2016/01/06/enhancing-ri-s-maritime-safety.html As Indonesia's geography consists of thousands of islands with a vast sea territory, sea transportation is vital to the nation.

Joint Statement on Whaling and Safety at Sea. *US Department of State* [Online]. 11 January 2016. Available from: http://www.state.gov/r/pa/prs/ps/2016/01/251100.htm The Governments of Australia, the Netherlands, New Zealand, and the United States jointly condemn any actions at sea that may cause injury, loss of human life or damage to property or the marine environment during Southern Ocean whaling operations in 2016.

Manx fisherman recounts horrifying accident. *Manx Radio (UK)* [Online]. 18 January 2016. Available from: http://www.manxradio.com/news/isle-of-man-news/manx-fisherman-recounts-horror-accident/ A former Island fisherman who lost an arm in an accident at sea has become the face of a new safety campaign from the RNLI.

USCG Issues Additional LNG Bunkering Guidance After Witnessing "Release of LNG and/or Near Misses". *Ship & Bunker* [Online]. 19 January 2016. Available from: http://shipandbunker.com/news/am/871313-uscg-issues-additional-lng-bunkering-guidance-after-witnessing-release-of-lng-andor-near-misses The U.S. Coast Guard (USCG) this month has released additional and updated guidance on liquefied natural gas (LNG) bunkering, which it says comes in response to having observed the "release of LNG and/or near misses" during gas refuelling operations. LNG bunkering job aid for facility to vessel operations

Lives of men at sea cannot be compromised. By James Kon. *Borneo Bulletin* [Online]. 20 January 2016. Available from: http://borneobulletin.com.bn/lives-of-men-at-sea-cannot-be-compromised/ No matter how bad the economic situation, the safety and lives of the men at sea are important and cannot be compromised.

MARITIME SECURITY

Cyber security guidelines for ships launched today.
Baltic and International Maritime Council (BIMCO) [Online]. 4 January 2016. Available from: https://www.bimco.org/News/2016/01/04_Cyber_security_guidelines.aspx BIMCO, together with other leading shipping organisations, has today launched a set of guidelines to help the global shipping industry prevent major safety, environmental and commercial issues that could result from a cyber incident onboard a ship. The Guidelines on Cyber Security Onboard Ships

BV launch cyber security service for oil and gas industry. *Safety 4 Sea* [Online]. 7 January 2016. Available from: http://www.safety4sea.com/bv-launch-cyber-security-service-for-oil-and-gas-industry/ In partnership with Bureau Veritas, APSYS will assist with the implementation of risk treatment plans and risk reduction approaches, to allow Bureau Veritas clients to control the security of assets and persons, the availability and integrity of offshore installations and service.

Maritime Autonomy-Reducing the Risk in a High-Risk Program. By David Antanitus.
Armed With Science (US Defense Department) [Online]. 11 January 2016. Available from: http://science.dodlive.mil/2016/01/11/maritime-autonomy-reducing-the-risk-in-a-high-risk-program/ The fielding of independently deployed unmanned surface vessels designed from the ground up for no person to step aboard at any point in their operating cycles under sparse remote supervisory control is the next necessary technology leap if we are to drastically reduce the number of personnel required to support our warfighting missions and platforms.

Global Maritime Crime Programme Annual Report 2015. *United Nations Office on Drugs and Crime (UNODC)* [Online]. December 2015. Available from: https://www.unodc.org/documents/Piracy/15-07385_AR_ebook_Small.pdf

Patrol vessel *Merikarhu* joins border security operation coordinated by Frontex in the Mediterranean. *Rajavartiolaitos (The Finnish Border Guard)* [Online]. 8 January 2016. Available from: http://goo.gl/vGarLw On 7 January 2016, the Finnish Border Guard dispatched the patrol vessel *Merikarhu*, with a full crew, to the Mediterranean to participate in the Poseidon Rapid Intervention operation, coordinated by the European border management agency Frontex.

Cyber attacks - coping with new threats to the maritime world. By Michael Grey. *Seatrade Maritime News* [Online]. 13 January 2016. Available from: http://www.seatrade-maritime.com/news/americas/cyber-attacks-coping-with-new-threats-to-the-maritime-world.html A very 21st century addition to these timeless risks of maritime commerce might now be that of cyber attack, which conceivably could be as serious and damaging as any of those on this list.

Transportation Research Board Annual Meeting - Maritime cyber risk management. By Jodie Knox. *US Coast Guard Maritime Commons* [Online]. 12 January 2016. Available from: http://mariners.coastguard.dodlive.mil/2016/01/12/1122016-transportation-research-board-annual-meeting-maritime-cyber-risk-management/ The annual meeting covered all transportation modes and addressed topics of interest to policy makers, administrators, practitioners, researchers and representatives of government, industry and academic institutions.

Dryad Maritime Incident Report: Libya port of Zueitina attacked, 9th January. *Dryad Maritime* [Online]. 12 January 2016. Available from: http://www.dryadmaritime.com/dryad-maritime-incident-report-libya-port-of-zueitina-attacked-9th-january/ A spokesman for Libya's Petroleum Facilities Guard has confirmed that three boats attempted to attack the oil port of Zueitina on Sunday 9th January.

Inaugural Sri Lanka-Japan Dialogue on Maritime Security, Safety and Oceanic Issues held. *Ministry of Defence (Sri Lanka)* [Online]. 14 January 2016. Available from: http://www.defence.lk/new.asp?fname=Inaugural_Sri_Lanka_Japan_Dialogue_2016_held_20160113_03 This Dialogue is a result of the very successful visit of Prime Minister Ranil Wickremesinghe to Japan last year and an outcome of the Joint Declaration on a Comprehensive Partnership between Sri Lanka and Japan concluded during that visit.

***Seaman Guard Ohio* decision raises concern for maritime security operators. By Stephen Askins.** *Lloyd's Register* [Online]. 19 January 2016. Available from: http://www.lloydslist.com/ll/sector/ship-operations/article477540.ece A recent decision of the Tuticorin Court in the *Seaman Guard Ohio* case in India prohibiting automatic weapons that have been altered to fire only single shots will be of concern to private maritime security operators taking weapons into Indian waters.

Dryad Maritime: Southeast Asia dominated maritime crime incidents in 2015 with 236 reports, up 10%. *Hellenic Shipping News* [Online]. 22 January 2016. Available from: http://www.hellenicshippingnews.com/dryad-maritime-southeast-asia-dominated-maritime-crime-incidents-in-2015-with-236-reports-up-10/ Dryad Maritime, the UK's leading maritime intelligence and operations company has released its analysis of worldwide reported incidents of piracy and crime against mariners for 2015.

Maritime Crime Figures for 2015. *Dryad Maritime* [Online]. 22 January 2016. Available from: http://www.dryadmaritime.com/maritime-crime-figures-for-2015/ Looking to gain a greater understanding of maritime crime in 2015 to help inform your maritime crime strategy for the year ahead?

CBP Arrests 2 Migrant Stowaways Inside Container. *US Customs and Border Protection* [Online]. 25 January 2016. Available from: http://www.cbp.gov/newsroom/local-media-release/2016-01-25-000000/cbp-arrests-2-migrant-stowaways-inside-container U.S. Customs and Border Protection (CBP) Field Operations officers arrested two undocumented migrants last week found inside a container on board a vessel arriving from Rio Haina, Dominican Republic.

NIMASA Surpasses IMO Benchmark For ISPS Code Implementation. By Bamidele Ogunwusi. *Daily Independent (Nigeria)* [Online]. 26 January 2016. Available from: http://dailyindependentnig.com/2016/01/nimasa-surpasses-imo-benchmark-isps-code-implementation/ The Nigerian Maritime Administration and Safety Agency (NIMASA) said that it has surpassed the benchmark set by the International Maritime Organisation (IMO) for the actual compliance level of the International Ships and Ports Facility Security (ISPS) Code.

CBP Seizes Cocaine on board Cruise Ship Cabin. *US Customs and Border Protection* [Online]. 25 January 2016. Available from: http://www.cbp.gov/newsroom/local-media-release/2016-01-25-000000/cbp-seizes-cocaine-board-cruise-ship-cabin Field Operations Officers from U.S. Customs and Border Protection (CBP) seized Sunday 11 Kilograms (24 pounds) of cocaine at the *M/S Jewel of the Seas*.

Southeast Asian maritime terrorism warning. By Sam Chambers. *Splash 24/7* [Online]. 27 January 2016. Available from: http://splash247.com/southeast-asian-maritime-terrorism-warning/ Southeast Asia could see maritime terrorism incidents this year, a leading maritime security expert has told Splash.

MARITIME TRAINING

Cadets See Benefits of ISM-certified Training Ship. By Eric Haun. *Maritime Global News* [Online]. 5 January 2016. Available from: http://www.maritimeglobalnews.com/news/cadets-benefits-ismcertified-training-c0b107 Two years after Cal Maritime became the first U.S. maritime academy and training ship to be certified for the International Maritime Safety Management Code, cadets at the academy are seeing the benefits.

Brunei to get fully certified IMO trainers. By Aaron Wong. *Brunei Times* [Online]. 13 January 2016. Available from: http://www.bt.com.bn/news-national/2016/01/13/brunei-get-fully-certified-imo-trainers Seventeen instructors from Brunei will be fully certified to teach the majority of International Maritime Organisation (IMO) courses to local seafarers once they complete the final leg of specialised courses later this week.

Maritime Academy reduces training course fees. *Government of Mauritius* [Online]. 14 January 2016. Available from: http://www.govmu.org/English/News/Pages/Maritime-Academy-reduces-training-course-fees.aspx The Mauritius Maritime Training Academy (MMTA) aims to position itself as a centre of excellence for maritime training in the region.

Caribbean Maritime Institute - smooth sailing to success. *The Gleaner (Jamaica)* [Online]. 15 January 2016. Available from: http://jamaica-gleaner.com/article/news/20160115/caribbean-maritime-institute-smooth-sailing-success Since it began operations in 1980, the Caribbean Maritime Institute (CMI) has undergone a number of changes and has now transformed itself into one of the leading training institution in the region, with its graduates in demand the world over.

New Scale Model Facility Provides Training for Expanded Panama Canal. *Panama Canal Authority* [Online]. 18 January 2016. Available from: https://www.youtube.com/watch?v=iUl0TknrrrA&feature=youtu.be 🎥 To provide its workforce with the necessary experience to safely operate the expanded Panama Canal, the pilots and tug captains will now have a new Scale Model Manoeuvring Training Facility.

New accreditation for Seychelles Maritime Academy could bring in more students. By Julia Mabrook and Betymie Bonnelame. *Seychelles News Agency* [Online]. 22 January 2016. Available from: http://www.seychellesnewsagency.com/articles/4484/New+accreditation+for+Seychelles+Maritime+Academy+could+bring+in+more+students The Seychelles Maritime Academy can now receive students from other countries for their courses after receiving an international accreditation.

50 Students Selected by Italian Ship-Owners. By Michelle Howard. *MarineLink.Com* [Online]. 25 January 2016. Available from: http://www.marinelink.com/news/shipowners-students403971.aspx 23 letters of employment delivered to new graduates in the presence of the Institutions of the School.

Owners wanting more non-regulatory training for seafarers. By Marcus Hand. *Seatrade Maritime News* [Online]. 27 January 2016. Available from: http://www.seatrade-maritime.com/news/asia/owners-wanting-more-non-regulatory-training-for-seafarers.html Demand is growing from shipowners for more non-regulatory training for seafarers and simulators that specifically match their own bridge equipment, according to Transas.

Cadets carry out internship at the UMIP. *Bulletin Panama* [Online]. 25 January 2016. Available from: http://thebulletinpanama.com/2016/01/cadets-carry-out-internship-at-the-umip/ As part of the academic exchanges established by the US Transport Department, the Panama International Maritime University (UMIP) and the Massachusetts Maritime Academy (MMA) an internship was arranged for a group of 14 MMA cadets to be in Panama for more than 30 days.

MIGRANTS

Over 3,770 Migrants Have Died Trying to Cross the Mediterranean to Europe in 2015. *International Organization for Migration (IOM)* [Online]. 4 January 2016. Available from: http://www.iom.int/news/over-3770-migrants-have-died-trying-cross-mediterranean-europe-2015 With over 3,770 estimated deaths, 2015 has been the deadliest year on record for migrants and refugees crossing the Mediterranean, trying to reach Europe.

Bodies of 34 migrants found on Turkish coast, at least 12 rescued. By Melih Aslan. *Reuters* [Online]. 5 January 2016. Available from: http://www.reuters.com/article/us-europe-migrants-turkey-idUSKBN0UJ0MW20160105 The bodies of 34 migrants, at least seven of them children, were found at two sites along Turkey's Aegean coast on Tuesday after they apparently tried to cross to the nearby Greek island of Lesbos.

Migrant Offshore Aid Station (MOAS) rescues shipwrecked Syrians on Greek island of Agathonisi. *Migrant Offshore Aid Station (MOAS)* [Online]. 2 January 2016. Available from: http://www.moas.eu/migrant-offshore-aid-station-moas-rescues-shipwrecked-syrians-on-greek-island-of-agathonisi/ Early this morning 35 refugees endured five hours in heavy seas only to end up shipwrecked upon jagged rocks on a remote Aegean island called Agathonisi.

Migrants drown in sea crossing attempt to Lesbos. By Fergal Keane. *BBC News* [Online]. 5 January 2016. Available from: http://www.bbc.co.uk/news/world-europe-35239379 At least 34 people have drowned off the coast of Turkey after their boats sank during an attempted crossing to the Greek island of Lesbos.

Sharp drop in Rohingya migrants after Thai, Bangladesh crackdowns. By Amy Sawitta Lefevre. *Reuters* [Online]. 8 January 2016. Available from: http://www.reuters.com/article/us-thailand-migrants-idUSKBN0UM0YC20160108 The number of migrants leaving Myanmar and Bangladesh by boat in the past four months has plummeted because of Thai and Bangladeshi crackdowns on human smugglers, the United Nations and a rights activist said on Friday.

Coast Guard in Florida Faces New Wave of Cuban Migration. *Maritime Executive* [Online]. 7 January 2016. Available from: http://www.maritime-executive.com/article/coast-guard-in-florida-faces-new-wave-of-cuban-migration Following the announcement of a thaw in relations between the United States and Cuba late in 2014, tens of thousands of new Cuban migrants have headed north for America - over 40,000 overall in 2015, the largest number for any year since 1980.

Dozens of migrants die in the sea off Somaliland. By Hussein Ali Noor. *Reuters* [Online]. 9 January 2016. Available from: http://www.reuters.com/article/us-somalia-migrants-idUSKCN0UN0JE20160109 Dozens of Ethiopian and Somali migrants died in the waters off the breakaway Somalia region of Somaliland when their vessel failed mechanically in the course of the voyage and drifted in the sea, a regional Somaliland official said.

IOM Counts Latest Mediterranean Arrivals in 2016. *International Organization for Migration (IOM)* [Online]. 8 January 2016. Available from: http://www.iom.int/news/iom-counts-latest-mediterranean-arrivals-2016 One week into the New Year, IOM's Missing Migrants Project reports 46 migrants or refugees have been reported dead or missing in the Mediterranean, the majority dying in a pair of shipwrecks off the Turkish coast last Tuesday.

How 150,000 people were saved in the Mediterranean. By Rosie Scammell. *IRIN* [Online]. 7 January 2016. Available from: http://www.irinnews.org/report/102337/how-150-000-people-were-saved-in-the-mediterranean Although the majority of operations are successful, rescue boats don't reach everyone in time.

Migrant Arrivals in Europe by Sea Reached 18,872 in First 11 Days of 2016: IOM. *International Organization for Migration (IOM)* [Online]. 12 January 2016. Available from: http://www.iom.int/news/migrant-arrivals-europe-sea-reached-18872-first-11-days-2016-iom Migrant arrivals in Europe by sea averaged over 1,700 a day during the first 11 days of 2016, according to IOM.

Seven refugees fleeing Somalia 'thrown overboard' off coast of Italy. By Jess Staufenberg. *The Independent* [Online]. 12 January 2016. Available from: http://www.independent.co.uk/news/world/europe/seven-refugees-fleeing-somalia-thrown-overboard-off-coast-of-italy-a6807846.html Seven Somalian refugees trying to leave the country by boat are thought to have died after the were reportedly thrown overboard by human traffickers in Italy.

Migrant influx to Greece continues unabated through winter. By Phoebe Fronista. *Reuters* [Online]. 13 January 2016. Available from: http://in.reuters.com/article/europe-greece-migrants-idINKCN0UR29F20160113 More than 1,000 migrants and refugees arrived at Greece's biggest port of Piraeus near Athens on Wednesday as the influx of people fleeing conflict zones for Europe continued unabated into the winter months.

IOM: Migrant Arrivals in Europe by Sea Reached 23,664 in First 14 Days of 2016. *International Organization for Migration (IOM)* [Online]. 15 January 2016. Available from: http://www.iom.int/news/iom-migrant-arrivals-europe-sea-reached-23664-first-14-days-2016 Migrant arrivals in Europe by sea averaged over 1,700 per day during the first 14 days of 2016, according to IOM.

Migrant crisis: Rescuers pull terrified people from sea. By Mark Lowen. *BBC News* [Online]. 16 January 2016. Available from: http://www.bbc.co.uk/news/world-europe-35334140 Rescuers have pulled to safety dozens of migrants trying to reach Europe from Turkey by boat.

Tusk: EU has two months to control the migrant crisis, or go bust. *EurActiv* [Online]. 20 January 2016. Available from: http://www.euractiv.com/sections/justice-home-affairs/tusk-eu-has-two-months-control-migrant-crisis-or-go-bust-321137 European Council President Donald Tusk issued a stark warning yesterday (19 January) that the EU had "no more than two months" to tackle the migration crisis engulfing the 28-nation bloc, or face the collapse of its passport-free Schengen zone.

Migrant Arrivals in Greece in January Spike 2,100 Percent from a Year Ago: IOM. *International Organization for Migration (IOM)* [Online]. 19 January 2016. Available from: http://www.iom.int/news/migrant-arrivals-greece-january-spike-2100-percent-year-ago-iom Since the beginning of 2016, IOM estimates that 31,244 migrants and refugees have arrived in Greece by sea.

Migration: European policies dramatically worsened the so-called 2015 "refugee crisis". *Médecins Sans Frontières (MSF)* [Online]. 19 January 2016. Available from: http://www.msf.org/article/migration-european-policies-dramatically-worsened-so-called-2015-%E2%80%9Crefugee-crisis%E2%80%9D Médecins Sans Frontières (MSF) denounced the European Union's catastrophic failure to respond to the humanitarian needs of refugees, asylum seekers and migrants in Europe in 2015 In a new report released today. Obstacle Course to Europe

At least eight migrants drown in sinking off Greek island. By George Georgiopoulos and Theodora Arvanitidou. *Reuters* [Online]. 22 January 2016. Available from: http://uk.reuters.com/article/uk-greece-migrants-sinking-idUKKCN0V00IG At least eight migrants including two children drowned when a wooden boat carrying them capsized north of the Greek island of Kalolimnos early on Friday, a coastguard official said, as the refugee flow towards Europe continues despite the winter cold.

Migrant crisis: EU at grave risk, warns France PM Valls. *BBC News* [Online]. 22 January 2016. Available from: http://www.bbc.co.uk/news/world-europe-35375303 French Prime Minister Manuel Valls has warned that Europe's migration crisis is putting the EU at grave risk.

In appeal to end suffering in Syria, UN agencies and 120 humanitarian organizations call for action now. *UN News Centre* [Online]. 21 January 2016. Available from: http://www.un.org/apps/news/story.asp?NewsID=53060 Outlining a series of immediate, practical steps that can improve humanitarian access and the delivery of aid to those in need inside Syria, more than 120 humanitarian organizations and United Nations agencies issued a joint appeal today urging the world to raise their voices and call for an end to the Syria crisis.

Calais migrants: Call for military to guard port as migrants board ferry. By Simon Jones. *BBC News* [Online]. 24 January 2016. Available from: http://www.bbc.co.uk/news/world-europe-35394424 The port of Calais was temporarily closed on Saturday and services disrupted after a group of migrants briefly boarded a P&O ferry.

Footage of Calais migrants getting on P&O ferry. *BBC News* [Online]. 24 January 2016. Available from: http://www.bbc.co.uk/news/world-europe-35394426 About 150 migrants broke through security fences in Calais on Saturday with up to 50 making it on board a P&O ferry bound for the UK.

Calais port delays after migrants board P&O ferry. *BBC News* [Online]. 23 January 2016. Available from: http://www.bbc.co.uk/news/world-europe-35393423 The port of Calais was temporarily closed on Saturday and services were disrupted after a group of migrants briefly boarded a ship.

MOAS completes one month of complex rescues as refugee deaths in Aegean reach record high. *Migrant Offshore Aid Station (MOAS)* [Online]. 23 January 2016. Available from: http://www.moas.eu/category/press/ Search and rescue charity Migrant Offshore Aid Station (MOAS) has assisted hundreds of refugees from hostile seas between Turkey and Greece since it began operating in the region just before Christmas.

Greece and Italy continued to face unprecedented number of migrants in December. *Frontex* [Online]. 22 January 2016. Available from: http://frontex.europa.eu/news/greece-and-italy-continued-to-face-unprecedented-number-of-migrants-in-december-0BbBRd Thousands of migrants continued to arrive in Greece and Italy in December despite difficult weather conditions, bringing the total number of detections in the two countries to 1.04 million in all of 2015.

Migrant Arrivals in Europe by Sea Reached 36,556 in First 21 Days of 2016: IOM. *International Organization for Migration (IOM)* [Online]. 22 January 2016. Available from: http://www.iom.int/news/migrant-arrivals-europe-sea-reached-36556-first-21-days-2016-iom With more than a week left in the first month of 2016, IOM reports that deaths of migrants and refugees in the Mediterranean already make this the deadliest January on record.

Commission: Schengen suspension could be extended, 60% of migrants should be sent back. By James Crisp. *EurActiv* [Online]. 26 January 2016. Available from: http://www.euractiv.com/sections/global-europe/commission-schengen-suspension-could-be-extended-60-migrants-should-be-sent The European Commission today (26 January) said it could agree to a suspension of border-free travel in the Schengen zone of up to two years, and that nearly two thirds of migrants entering the EU in December were not eligible for asylum because they did not come from conflict zones.

Irregular Migration in Horn of Africa Increases in 2015. *International Organization for Migration (IOM)* [Online]. 26 January 2016. Available from: http://www.iom.int/news/irregular-migration-horn-africa-increases-2015 In 2015 five countries in the Horn of Africa - Djibouti, Ethiopia, Eritrea, Somalia, and Sudan - experienced a marked increase in irregular migration by land and sea from a year earlier.

Migrant Arrivals in Greece Top 45,000 through January 25: IOM. *International Organization for Migration (IOM)* [Online]. 26 January 2016. Available from: http://www.iom.int/news/migrant-arrivals-greece-top-45000-through-january-25-iom Since the beginning of 2016, IOM estimates that 45,361 migrants and refugees have arrived in Greece by sea.

IOM, UNHCR, Partners Seek USD 550 Million for Europe's Refugees and Migrants. *International Organization for Migration (IOM)* [Online]. 26 January 2016. Available from: http://www.iom.int/news/iom-unhcr-partners-seek-usd-550-million-europes-refugees-and-migrants As continuing conflict in the Middle East and elsewhere drives people to seek refuge in Europe, IOM, UNHCR and some 65 other organizations yesterday appealed in Geneva to donors for USD 550 million to support the ongoing humanitarian response.

French official calls on Paris to send troops to Calais over migrants. By Pierre Savary. *Reuters* [Online]. 25 January 2016. Available from: http://www.reuters.com/article/us-europe-migrants-calais-idUSKCN0V31QL? The head of France's northern region on Monday called on Paris to send troops to Calais to restore order there after migrants stormed the port and boarded a British ferry.

Sailing Ban Ignored, 13 Dead. *Maritime Executive* [Online]. 24 January 2016. Available from: http://maritime-executive.com/article/sailing-ban-ignored-13-dead Thirteen people died on Saturday after a small tourist boat sank amid strong winds off a remote island in the Caribbean Sea, Nicaraguan government spokeswoman Rosario Murillo said.

Five more Indonesian bodies wash ashore in Malaysia after boat tragedy. *Star Online (Malaysia)* [Online]. 27 January 2016. Available from: http://www.thestar.com.my/news/regional/2016/01/27/five-more-indonesian-bodies-wash-ashore-in-malaysia-after-boat-tragedy/ Five more bodies believed to be those of illegal Indonesian migrants were found in Malaysia on Wednesday following a boat tragedy, raising the death toll to 18, police said.

More than 1,200 boat migrants rescued off Libya on Tuesday: Italian coast guard. By Isla Binnie. *Reuters* [Online]. 26 January 2016. Available from: http://www.reuters.com/article/us-europe-migrants-italy-idUSKCN0V42CK Italy's coast guard said on Tuesday it had coordinated the rescue of 1,271 migrants from rubber and wooden boats in several operations off the coast of Libya.

Migrant crisis: 26 drown off Samos island near Turkey. *BBC News* [Online]. 28 January 2016. Available from: http://www.bbc.co.uk/news/world-europe-35430667 Twenty-six migrants have drowned off the Greek island of Samos near Turkey after their boat capsized.

Share of Syrians arriving on Greek islands has fallen in recent months. *Frontex* [Online]. 28 January 2016. Available from: http://frontex.europa.eu/news/share-of-syrians-arriving-on-greek-islands-has-fallen-in-recent-months-POQt0V The percentage of declared Syrians among all of the migrants landing on the Greek islands has fallen considerably in the last several months.

NAVIGATION AND COMMUNICATIONS

Inmarsat Maritime Vision. *Inmarsat* [Online]. 6 January 2016. Available from: https://www.youtube.com/watch?v=WvAVI69GJf4 The maritime industry is changing.

MarineTraffic Boards Equasis. By Joseph R. Fonseca. *MarineLink.Com* [Online]. 8 January 2016. Available from: http://www.marinelink.com/news/marinetraffic-equasis403156.aspx MarineTraffic, the world's most trusted AIS vessel tracking service has started supplying geographical positioning data to the Equasis project.

Jason ocean height mission blasts off. By Jonathan Amos. *BBC News* [Online]. 17 January 2016. Available from: http://www.bbc.co.uk/news/science-environment-35339776 A US-European satellite that is fundamental to our understanding of the oceans has launched from California.

Marine Safety Alert: Global Navigation Satellite Systems. *United States Coast Guard* [Online]. 19 January 2016. Available from: http://www.uscg.mil/hq/cg5/cg545/alerts/0116.pdf

PIRACY

Soldiers Arrest 1,610 Pirates, Others In Niger Delta. By Osa Okhomina. *Leadership (Nigeria)* [Online]. 4 January 2016. Available from: http://www.leadership.ng/news/488798/soldiers-arrest-1610-pirates-others-niger-delta Authorities of the military operations in the Niger Delta region known as Operation Pulo Shield (OPS) have confirmed the arrest of 1,610 suspects over their involvement in cases of sea piracy, illegal bunkering and militancy within the nine states of the region.

Maritime Security: Moving Targets. By Stephen L. Caldwell. *Maritime Executive* [Online]. 8 January 2016. Available from: http://www.maritime-executive.com/magazine/maritime-security The North Atlantic Treaty Organization (NATO) recently sponsored a maritime security conference that provided participants with an update on piracy and other threats to shipping.

Unsafe on high seas. By Jayaraj Sivan. *Times of India* [Online]. 12 January 2016. Available from: http://timesofindia.indiatimes.com/city/chennai/Unsafe-on-high-seas/articleshow/50545250.cms Private maritime security services was touted as a $7 bn business globally three years ago but it is fast shrinking, generating just one-fourth of that revenue now owing to a substantial drop in instances of piracy in the Gulf of Aden.

Iranian tankers escape 70 pirate attacks, ready for post-sanctions era. *Islamic Republic News Agency- IRNA (Iran)* [Online]. 13 January 2016. Available from: http://www.irna.ir/en/News/81919894/ Managing Director of the National Iranian Tanker Company (NITC) said on Wednesday that its vessels were attacked 70 times by pirates in 2015 specially in the Gulf of Aden basin which were aborted by the Iranian Navy.

Eight Nigerian pirates deported. *Ghana Web* [Online]. 13 January 2016. Available from: http://www.ghanaweb.com/GhanaHomePage/crime/Eight-Nigerian-pirates-deported-407247 Eight Nigerian pirates have been deported by the Ghanaian authorities upon the directive of the Minister of the Interior.

Summary: Piracy and armed robber against ships in Asia 2015. *ReCAAP* [Online]. 13 January 2016. Available from: http://www.recaap.org/DesktopModules/Bring2mind/DMX/Download.aspx?Command=Core_Download&EntryId=420&PortalId=0&TabId=78

Pirates Attempt to Board RORO Ship in Gulf of Guinea. *World Maritime News* [Online]. 20 January 2016. Available from: http://worldmaritimenews.com/archives/181066/pirates-attempt-to-board-roro-ship-in-gulf-of-guinea/ Armed pirates attempted to board a RORO vessel confirmed as *MV Silver Sky* owned by Dubai-based Sallaum Lines while the ship was on its way in the Gulf of Guinea, some 64 nautical miles of Beyelsa.

Navy's anti-piracy unit in Somalia coast marks 5 years since major rescue operation. By Park Bo-ram. *Yonhap News Agency (South Korea)* [Online]. 20 January 2016. Available from: http://english.yonhapnews.co.kr/news/2016/01/20/0200000000AEN20160120007900315.html Worries about success and fears of wounds tormented Navy SEAL Park Sang-joon before the operation began and seized his focus, the soldier said of the Navy's much-celebrated mission to rescue a South Korean freighter hijacked by Somali pirates five years ago.

Somali pirates earn new cash by acting as escorts to the fishing boats they once hijacked. By Colin Freeman. *The Telegraph* [Online]. 22 January 2016. Available from: http://www.telegraph.co.uk/news/worldnews/africaandindianocean/somalia/12066913/Somali-pirates-earn-new-cash-by-acting-as-escorts-to-the-fishing-boats-they-once-hijacked.html Somali pirates who raked in millions of dollars in ship hijackings have developed a lucrative new racket - acting as armed "escorts" to foreign trawlers that steal the country's fish.

PORT STATE CONTROL

IMO members under pressure to comply with new audits. By Allan Odhiambo. *Business Daily (Kenya)* [Online]. 13 January 2016. Available from: http://www.businessdailyafrica.com/IMO-members-under-pressure-to-comply-with-new-audits/-/1248928/3031782/-/3d10d4/-/index.html Kenya and other member states of the International Maritime Organisation(IMO) are under pressure to ensure safety and curb pollution at sea following the commencement of a treaty on mandatory compliance audits.

Foreign flagged ships under detention in the UK during December 2015. *UK Maritime & Coastguard Agency* [Online]. 15 January 2016. Available from: https://www.gov.uk/government/news/foreign-flagged-ships-under-detention-in-the-uk-during-december-2015 During December, there was one new detention of a foreign flagged vessel in a UK port.

PORTS AND HARBOURS

Port of Amsterdam rewards clean ESI ships with double bonus. *Port of Amsterdam* [Online]. 5 January 2016. Available from: http://www.portofamsterdam.com/Eng/Port-of-Amsterdam-rewards-clean-ESI-ships-with-double-bonus.html Port of Amsterdam intends to double the bonuses awarded to ships listed on the Environmental Ship Index (ESI).

Shipowners call for adequate and workable European port reception facilities. *European Community Shipowners' Associations (ECSA)* [Online]. 12 January 2016. Available from: http://goo.gl/BgDkrT European shipowners have issued a position paper on the upcoming revision of the Port Reception Facilities (PRF) Directive adopted in 2000 as a reaction to the recently published 'inception Impact Assessment' by the European Commission. Better Port Facilities in Europe

Jamaica's Port Community System: Enhancing the status as a major trade hub in the Caribbean. *The Gleaner (Jamaica)* [Online]. 13 January 2016. Available from: http://jamaica-gleaner.com/article/shipping/20160113/jamaicas-port-community-system-enhancing-status-major-trade-hub-caribbean Jamaica's plans to improve its cargo and trade logistics capabilities have taken a step forward by way of the acquisition of a port community system (PCS).

Greece says China's Cosco sole bidder in Piraeus Port sale. *South China Morning Post* [Online]. 13 January 2016. Available from: http://www.scmp.com/business/companies/article/1900585/greece-says-chinas-cosco-sole-bidder-piraeus-port-sale Greece only received a bid from China's Cosco Group for a majority stake in Piraeus Port Authority, the operator of the country's biggest port, the privatisation agency said on Tuesday.

The Port of Hamburg: Outlook for 2016 Part 1. *Hamburg Port Authority* [Online]. 11 January 2016. Available from: https://www.youtube.com/watch?v=M4EohtrXt0U 2015 was exciting for the Port of Hamburg , above all , the 29th World Ports Conference , in which the port of Hamburg has been an absolute pioneer in technology.

China, Algeria to build mega sea port. *Xinhuanet (China)* [Online]. 17 January 2016. Available from: http://news.xinhuanet.com/english/2016-01/18/c_135018002.htm Algeria and China on Sunday inked a 3.3-billion-U.S-dollar deal to build and exploit the new center transshipment port of Cherchell.

Port not ready for post-Panamax vessels. *The Gleaner (Jamaica)* [Online]. 20 January 2016. Available from: http://jamaica-gleaner.com/article/news/20160114/port-not-ready-post-panamax-vessels The port of Kingston will not be able to accommodate post-Panamax vessels within the next two years.

Terminal Operators request clarity on implementation of SOLAS weighing rules at national levels. *FREPORT (Federation of European Private Port Operators)* [Online]. January 2016. Available from: http://goo.gl/QeSKoP Within less than six months, new SOLAS container weighing rules will come into force and there is still a lack of information and harmonization at national level regarding their implementation.

TRAN ports report a first step but not reaching far enough on market access. *European Community Shipowners' Associations (ECSA)* [Online]. 27 January 2016. Available from: http://www.ecsa.eu/9-latest-news/233-tran-ports-report-a-first-step-but-not-reaching-far-enough-on-market-access On 25 January the Transport Committee of the European Parliament adopted its report on the ports' Regulation.

RECYCLING OF SHIPS

Shipping Companies Encouraged to Use New Transitional Measures for Ship Recycling. *International Chamber of Shipping (ICS)* [Online]. 18 January 2016. Available from: http://goo.gl/Df25tX Shipping companies are being strongly encouraged to use new 'Transitional Measures for Shipowners Selling Ships for Recycling' launched by a wide coalition of international shipping industry organisations. Transitional Measures for Shipowners Selling Ships for Recycling

REGULATIONS

Canada Delays Implementation of ECA NOx Requirement Until 2017. *Ship & Bunker* [Online]. 5 January 2016. Available from: http://shipandbunker.com/news/am/168780-canada-delays-implementation-of-eca-nox-requirement-until-2017 The Government of Canada says it has delayed the implementation of the International Maritime Organization (IMO) Tier III nitrogen oxides (NOx) emissions standards for certain marine engines operating within its Emission Control Area (ECA) until January 1, 2017.

Outlook 2016: Environmental wrangling kicks a political football into play.
By Craig Eason. *Lloyd's List* [Online]. 7 January 2016. Available from: http://www.lloydslist.com/ll/sector/regulation/article476797.ece Critics often condemn shipping, comparing it to an unregulated wild west; as if it is the last outpost of carefree buccaneers looking to make a fast dollar off a cheap ship.

Panama plans ratification of ballast water and ship recycling conventions.
By Craig Eason. *Lloyd's List* [Online]. 11 January 2016. Available from: http://www.lloydslist.com/ll/sector/regulation/article477222.ece Panama is preparing to ratify both the Hong Kong Convention on ship recycling and the Ballast water convention.

BWTS - USCG leads IMO. *Tanker Operator* [Online]. 8 January 2016. Available from: http://www.tankeroperator.com/news/bwts---uscg-leads-imo/7282.aspx As of 1st January, 2016 vessels are no longer able to discharge ballast in US waters unless their ballast water treatment (BWT) systems are compliant with USCG strict demands.

Strainstall provides insights for ports and terminals on how to tackle container weight verification. *Strainstall* [Online]. 14 January 2016. Available from: http://www.strainstall.com/media/news-press-releases/strainstall-outlines-pathway-port-and-terminal-operators-solas-compliance/ With the 1 July implementation of the new SOLAS container verified gross mass (VGM) regulations fast approaching, Strainstall, part of James Fisher and Sons plc, is today launching a white paper to assist those affected by the new rules. How to achieve SOLAS compliance

NGOs welcome EU move to fight illegal fishing through vessel numbering scheme. *WWF* [Online]. 21 January 2016. Available from: http://www.wwf.eu/?259975/NGOs-welcome-EU-move-fight-illegal-fishing-vessel-numbering Today, the Environmental Justice Foundation (EJF), Oceana and WWF welcomed a new European Commission requirement that all EU fishing vessels, and foreign vessels fishing in EU waters, need to have unique vessel numbers from construction to disposal.

Panama raises key shipowner concerns ahead of ballast water convention ratification. By Craig Eason. *Lloyd's List* [Online]. 24 January 2016. Available from: http://www.lloydslist.com/ll/sector/ship-operations/article478034.ece The Panama Maritime Authority is pushing the International Maritime Organization to resolve key shipowner concerns regarding the ballast water management convention before it will ratify.

Container Weighing Explained. *Port Technology International* [Online]. 26 January 2016. Available from: https://www.porttechnology.org/news/container_weighing_explained1 With the impending Safety of Life at Sea (SOLAS) amendment that will lead to all shipped containers having to be weighed to an acceptable standard by international law set to come into affect on July 1, 2016, PTI has worked with load measurement specialist Strainstall to create a whitepaper which covers all the issues you need to know. Whitepaper

SEAFARERS

ITF Calls for Coronial Inquiry into Seafarer Death. *World Maritime News* [Online]. 5 January 2016. Available from: http://worldmaritimenews.com/archives/180132/itf-calls-for-coronial-inquiry-into-seafarer-death/ The International Transport Workers' Federation has formally called for a coronial inquest into yet another seafarer death on board a Panamanian registered Flag of Convenience coal carrier.

Is there a future for seafarer centres? By Roger Harris. *TradeWinds* [Online]. 7 January 2016. Available from: http://www.tradewindsnews.com/weekly/380869/is-there-a-future-for-seafarer-centres Fresh thinking is needed to ensure the survival of a key link in the welfare chain.

Industry pays tribute to Alert! *Nautical Institute* [Online]. 7 January 2016. Available from: http://www.nautinst.org/en/Media/press/index.cfm/Alert-40 Just over 12 years ago The Nautical Institute launched its international human element bulletin, Alert! Issue No.40

Introducing NUSI, Winner of the Welfare Organisation of the Year Award 2015. *International Seafarers' Welfare and Assistance Network (ISWAN)* [Online]. 11 January 2016. Available from: http://www.seafarerswelfare.org/news-and-media/latest-news/introducing-nusi-winner-of-the-welfare-organisation-of-the-year-award-2015 This award is bestowed upon the organisation which has made an outstanding contribution to seafarers' welfare.

Crew forced off Alcoa cargo ship after two-month industrial dispute. *The Guardian* [Online]. 13 January 2016. Available from: http://www.theguardian.com/australia-news/2016/jan/13/crew-forced-off-alcoa-cargo-ship-after-two-month-industrial-dispute The crew of a Victorian cargo ship has been pulled from their beds and escorted off the ship after a two-month standoff with global mining giant Alcoa.

Sri Lankan seafarers: The opportune moment. *Daily FT (Sri Lanka)* [Online]. 18 January 2016. Available from: http://www.ft.lk/article/519485/Sri-Lankan-seafarers--The-opportune-moment Professor (Capt.) Nalaka Jayakody continuous to urge authorities, government and the people of Sri Lanka to tap into the enormous opportunities of seafaring by investing, collaborating and promoting the profession both locally and globally.

Shipowners and Seafarers' Unions Team Up to Launch New Guidance on the Elimination of Harassment and Bullying. *International Chamber of Shipping (ICS)* [Online]. 25 January 2016. Available from: http://goo.gl/gmwByV Maritime employers and seafarers' unions have joined forces to publish new international 'Guidance on Eliminating Shipboard Harassment and Bullying'. Guidance on Eliminating Shipboard Harassment and Bullying

Transas boss calls for radical rethink on the role of the master. By Grant Rowles. *Splash 24/7* [Online]. 26 January 2016. Available from: http://splash247.com/transas-boss-calls-for-radical-rethink-on-the-role-of-the-master/ Frank Coles, the new boss at bridge and navigation systems specialist Transas, has called for a radical rethink on the role of the master in today's shipping environment.

The Mission and NAMMA launch Digital Centre for Seafarers' Ministry (MARE Project). *Mission to Seafarers* [Online]. 25 January 2016. Available from: http://www.missiontoseafarers.org/index.php/media-centre/news/298/the-mission-and-namma-launch-digital-centre-for-seafarers-ministry-mare-project The MARE project is an exciting new initiative which will be delivered by NAMMA and funded with strategic support from The Mission to Seafarers, one of the world's leading international Christian seafarers' welfare charities.

UK Seafarers: positive new statistics mask reality. *UK Chamber of Shipping* [Online]. 27 January 2016. Available from: https://www.ukchamberofshipping.com/latest/uk-seafarers-positive-new-statistics-mask-reality/ UK Seafarer statistics launched today show a slight overall increase of 2% from 2015, rising to 23,380 at the end of June 2015. Seafarer Statistics, 2015

Inmarsat to sponsor Seafarers Awareness Week. *Inmarsat* [Online]. 27 January 2016. Available from: http://www.inmarsat.com/news/inmarsat-to-sponsor-seafarers-awareness-week/ Inmarsat is honoured to be a gold sponsor of the 2016 Seafarers Awareness Week, being held on 20-26 June, which this year has the theme 'Maritime jobs for future generations'.

Simultaneous Melbourne and Sydney Rallies in Support of Sacked Crew. *Maritime Union of Australia (MUA)* [Online]. 27 January 2016. Available from: http://www.mua.org.au/neous_melbourne_and_sydney_rallies_in_support_of_sacked_crew The Maritime Union of Australia is demanding an investigation into Alcoa's actions after the American-based miner forcibly replaced Australian seafarers with foreign workers.

SEARCH AND RESCUE

MOAS to receive Geuzen Medal 2016. *Migrant Offshore Aid Station (MOAS)* [Online]. 11 January 2016. Available from: http://www.moas.eu/moas-to-receive-geuzen-medal-2016/ The news was announced on January 7 by the Geuzenpenning Foundation. The award ceremony will be held on Monday, 14 March 2016 in the Grote Kerk (Great Church) of Vlaardingen.

Icebrakers assisted 12 cargo ships in the Gulf of Finland. *Port News* [Online]. 14 January 2016. Available from: http://en.portnews.ru/news/212868/ Rosmorport's icebreakers have escorted recently 12 merchant ships in the Gulf of Finland, the Ice Operations HQ of Basin Administration "Baltic Sea Ports Authority" said.

New Ship Racing To Rescue Desperate Refugees. By Lisa Holland. *Sky News* [Online]. 15 January 2016. Available from: http://news.sky.com/story/1623392/new-ship-racing-to-rescue-desperate-refugees Tens of thousands of refugees are still trying to cross to Europe each week from Turkey via Greece, in spite of the dreadful winter conditions.

Rescue operation of 17 refugees by CSM Singapore managed vessel "*FSL TOKYO*". *Jeanius Consulting* [Online]. 26 January 2016. Available from: http://jeaniusconsulting.com/rescue-operation-of-17-refugees-by-csm-singapore-managed-vessel-fsl-tokyo/ Seventeen refugees have been rescued by the "*FSL Tokyo*" on 15th January 2016.

SHIPBUILDING AND SHIPREPAIR

ClassNK releases amendments to class rules including structural strength requirements of container carriers. *ClassNK* [Online]. 5 January 2016. Available from: https://www.classnk.or.jp/hp/en/hp_news.aspx?id=1772&type=press_release Leading classification society ClassNK (Chairman and President: Noboru Ueda) has announced that it released amendments to its Rules and Guidance for the Survey and Construction of Steel Ships on 25 December 2015, including structural strength requirements of container carriers.

Asian shipbuilders 'cynically' exploit Tier III loophole. By Irene Ang and Adam Corbett. *TradeWinds* [Online]. 14 January 2016. Available from: http://www.tradewindsnews.com/weekly/381551/asian-shipbuilders-cynically-exploit-tier-iii-loophole Up to 200 keels certified last year will allow yards to market ships that do not comply with new emissions standards.

Coast Guard to Discuss New Icebreakers with Shipbuilders. *Maritime Executive* [Online]. 14 January 2016. Available from: http://www.maritime-executive.com/article/coast-guard-to-discuss-new-icebreakers-with-shipbuilders At a panel hosted by the Center for Strategic & International Studies on Wednesday, U.S. Coast Guard Commandant Adm. Paul Zukunft announced new discussions regarding the construction of two new icebreakers.

SHIPPING

Bunker Consumption Outlook: Demand Expected To Increase Almost 90% in Developing Countries. *Ship & Bunker* [Online]. 4 January 2016. Available from: http://shipandbunker.com/news/world/696638-bunker-consumption-outlook-demand-expected-to-increase-almost-90-in-developing-countries Robust economic growth, coupled with increasing trade between regions, will boost bunker demand in developing countries by 90 percent through 2040.

What lies ahead of shipping and maritime in 2016? By Marcus Hand. *Seatrade Maritime News* [Online]. 4 January 2016. Available from: http://www.seatrade-maritime.com/news/americas/what-lies-ahead-of-shipping-and-maritime-in-2016.html As we sail into 2016 it is fair to say that 2015 is a year that many in shipping, excluding tanker owners, would be happy to forget.

Early adoption of sulphur cap could 'strain the refining sector'. By Nick Jameson. *Sustainable Shipping* [Online]. 5 January 2016. Available from: http://www.sustainableshipping.com/news/Early-adoption-of-sulphur-cap-could-strain-the-refining-sector-140406 The Organization of the Petroleum Exporting Countries (OPEC) has warned against the early adoption of a 0.50% sulphur cap for bunker fuel.

Marshall Islands flag to surpass Liberia into second place this year. By Sam Chambers. *Splash 24/7* [Online]. 7 January 2016. Available from: http://splash247.com/marshall-islands-flag-to-surpass-liberia-into-second-place-this-year/ The Marshall Islands ship registry (RMI Registry) is confident it can overhaul Liberia this year to become the second largest flag in the world after Panama.

Watchkeeper: Battles for the minds. *Baltic and International Maritime Council (BIMCO)* [Online]. 6 January 2016. Available from: https://www.bimco.org/News/2016/01/06_Watchkeeper.aspx The holiday season has intervened in the process of "digestion" following the climate change talks in Paris, at which shipping and aviation were omitted from the over-stuffed agenda and the fulsome pledging which followed.

Transport can no longer hide from its obligations. By Jos Dings. *Transport & Environment* [Online]. 6 January 2016. Available from: http://www.transportenvironment.org/news/transport-can-no-longer-hide-its-obligations For the global environment, 2015 was most definitely not a good year, but it was a year of hope and change.

Shipping will remain volatile and indispensable in 2016. By Richard Greiner. *Moore Stephens* [Online]. 6 January 2016. Available from: http://www.moorestephens.co.uk/news-views/january-2016/shipping-will-remain-volatile-and-indispensable-in The ultimate definition of an optimist has been characterised as an accordion player with an answerphone.

Shore-side power: a key role to play in greener shipping. By Eva Grey. *Ship-Technology.Com* [Online]. 6 January 2016. Available from: http://www.ship-technology.com/features/featureshore-side-power-a-key-role-to-play-in-greener-shipping-4750332/ Shore-side power, which allows ships to turn off their engines and plug into an electrical grid while at berth, has been steadily growing in popularity as a reliable solution to cutting emissions.

Going forward in apprehension. By Michael Grey. *Lloyd's List* [Online]. 4 January 2016. Available from: http://www.lloydslist.com/ll/sector/ship-operations/article476148.ece This is the first column of the New Year, so my good wishes for 2016 are accompanied by some forward-thinking thoughts about what the next 12 months may bring.

Yard Talk: Game of survival through co-operation and competition. By Max Tingyao Lin. *Lloyd's List* [Online]. 8 January 2016. Available from: http://www.lloydslist.com/ll/sector/finance/article477056.ece Plagued by a prolonged industry downturn, Asian yards have started to play a game of survival by co-operating and competing at the same time.

Downward trend in tanker spills continues. *International Tanker Owners Pollution Federation (ITOPF)* [Online]. 8 January 2016. Available from: http://www.itopf.com/news-events/news/article/downward-trend-in-tanker-spills-continues/ Over half-way into this decade and the downward trend in oil spills from tankers continues. Oil Tanker Spill Statistics 2015

IMF calls for a carbon tax on shipping and aviation. By Sam Chambers. *Splash 24/7* [Online]. 12 January 2016. Available from: http://splash247.com/imf-calls-for-a-carbon-tax-on-shipping-and-aviation/ Shipping might have thought it was out in the clear post-Paris and COP21, but there are still plenty of bodies around the world targeting maritime emissions.

The shipping industry has dodged a bullet. By Erio Sandler. *New Economy* [Online]. 11 January 2016. Available from: http://www.theneweconomy.com/technology/the-shipping-industry-needs-exhaust-gas-scrubbers It has been more than a year since the International Maritime Organisation (IMO) MARPOL Annex VI Regulation 14 went into effect and, frankly, it appears to be having an immediate and positive impact on sulphur emissions, but is it sustainable?

Ice Floes and Global Economic Woes: The Future of Arctic Shipping Considered. *Center for Strategic & International Studies (CSIS)* [Online]. 13 January 2016. Available from: http://csis.org/event/ice-floes-and-global-economic-woes-future-arctic-shipping-considered This timely discussion will analyze the current and future state of play related to destination shipping and transhipment across the Arctic region.

Shipping told be more vigilant when transiting near Iran. By Sam Chambers. *Splash 24/7* [Online]. 13 January 2016. Available from: http://splash247.com/shipping-told-be-more-vigilant-when-transiting-near-iran/ Commercial shipping - especially US-flagged ships - have been warned to remain extremely vigilant when transiting waters near Iran.

Sohmen-Pao to focus on industry participation in S'pore maritime as SMF chairman. By Marcus Hand. *Seatrade Maritime News* [Online]. 14 January 2016. Available from: http://www.seatrade-maritime.com/news/asia/sohmen-pao-to-focus-on-industry-participation-in-singapore-maritime-as-smf-chairman.html Incoming Singapore Maritime Foundation (SMF) chairman Andreas Sohmen-Pao will be focusing on the participation of industry players in the objective of further growing the country as an international maritime centre.

What are the top global risks for 2016? By Oliver Cann. *World Economic Forum* [Online]. 14 January 2016. Available from: http://www.weforum.org/agenda/2016/01/what-are-the-top-global-risks-for-2016 In this year's annual survey, almost 750 experts assessed 29 separate global risks for both impact and likelihood over a 10-year time horizon.

Global Risks Report 2016. *World Economic Forum* [Online]. January 2016. Available from: http://reports.weforum.org/global-risks-2016/ Now in its 11th edition, The Global Risks Report 2016 completes more than a decade of highlighting the most significant long-term risks worldwide, drawing on the perspectives of experts and global decision-makers.

Interview: Larger LNG-Powered Boxships Only a Matter of Time. *World Maritime News* [Online]. 16 January 2016. Available from: http://worldmaritimenews.com/archives/180710/interview-larger-lng-powered-boxships-only-a-matter-of-time/ Cutting emissions in a world already experiencing climate change has been one of the key topics last year as world powers met in Paris to talk measures aimed at curbing global warming of more than 2°C.

Abu Dhabi Ports Marine Services demonstrates safety preparedness for ferries in Western Region. *Abu Dhabi Ports* [Online]. 13 January 2016. Available from: http://www.adports.ae/en/news/media-centre/press-releases/news-62.html Abu Dhabi Ports Marine Services recently conducted a live exercise demonstrating the comprehensive safety preparedness when dealing with emergency situations.

Research review 2015. *DNV GL* [Online]. 13 January 2016. Available from: https://goo.gl/uP3VCA

Singapore's 2015 Maritime Performance. *Maritime and Port Authority of Singapore (MPA)* [Online]. 13 January 2016. Available from: http://www.mpa.gov.sg/sites/global_navigation/news_center/mpa_news/mpa_news_detail.page?filename=nr160113.xml The Port of Singapore put in a mixed performance in 2015, amidst weak global economic conditions and structural changes in the maritime industry.

The new faces of maritime: Local women highlight changing workforce. By Brady Slater. *Duluth News Tribune (USA)* [Online]. 10 January 2016. Available from: http://www.duluthnewstribune.com/news/education/3921043-new-faces-maritime-local-women-highlight-changing-workforce Looking out over the deck of the lake freighter Edwin H. Gott, Ellora Hammerberg surveyed a landscape just outside Detroit that was blackened with the soot and oil of industry.

The EU agenda for 2016: prepare to batten down the hatches. By Simon C. Bergulf. *Danmarks Rederiforening (Danish Shipowners' Association)* [Online]. 15 January 2016. Available from: https://www.shipowners.dk/en/presse/nyheder/the-eu-agenda-for-2016-prepare-to-batten-down-the-hatches/ 2016 promises to be a very interesting year seen from the perspective of the Danish Shipowners' Association Brussels Representation.

Maiden African Maritime Journalists Conference Holds In Ghana. By Abiola Atoyebi. *Leadership (Nigeria)* [Online]. 15 January 2016. Available from: http://leadership.ng/business/491866/maiden-african-maritime-journalists-conference-holds-ghana The inaugural edition of a continent-wide forum for maritime journalists, content owners and publishers based in Africa is billed to hold in Accra, Ghana from January 29 to 30, 2016.

International Standards and the Quest for Safe Shipping. By Morand Fachot. *IHS Engineering 360* [Online]. 14 January 2016. Available from: http://insights.globalspec.com/article/1922/international-standards-and-the-quest-for-safe-shipping Maritime transportation is the most effective means of moving large quantities of cargo over long distances.

Shipping unscathed as China flights raise South China Sea tension. By Jonathan Soul and Jacob Gronholt-Pedersen. *Reuters* [Online]. 14 February 2016. Available from: http://uk.reuters.com/article/uk-southchinasea-shipping-idUKKCN0US0AH20160114 China's growing military presence in the South China Sea has drawn warnings from the United States that Beijing is seeking to exert control over one of the world's most important sea lanes, but so far the shipping industry seems less concerned.

Sea Shepherd joins alliance fighting against BP oil drilling in Great Australian Bight. *ABC (Australia)* [Online]. 18 January 2016. Available from: http://www.abc.net.au/news/2016-01-18/alliance-launched-to-protest-bp-drilling-in-australian-bight/7095104 An alliance of environmental groups that includes the high-profile Sea Shepherd organisation has formed to protest against proposed BP oil drilling in the Great Australian Bight.

WISTA Hellas hosts debate on current challenges in shipping at its Annual Forum 2015. *Hellenic Shipping News* [Online]. 16 January 2016. Available from: http://www.hellenicshippingnews.com/wista-hellas-hosts-debate-on-current-challenges-in-shipping-at-its-annual-forum-2015/ WISTA Hellas brought key players of the Greek shipping market together in a first ever pure panel discussion placing obstacles and challenges on the table for a candid debate in light of the current economic and political global climate.

Maritime sector must absorb balance sheet implications of new lease accounting standard. By Michael Simms. *Moore Stephens* [Online]. 13 January 2015. Available from: http://www.moorestephens.co.uk/news-views/january-2016/maritime-sector-must-absorb-balance-sheet-implicat A new international accounting standard dealing with leases could have major implications for companies in the shipping and offshore maritime sectors, and particularly for time charterers.

The way forward for global shipping. By Grahaeme Henderson. *University of Southampton* [Online]. 14 January 2016. Available from: http://www.southampton.ac.uk/news/2016/01/grahaeme-henderson-lecture.page
Global shipping must take a leading role in the climate change debate and develop a more collaborative approach to business whilst reducing its own greenhouse gas footprint and emissions that affect air quality.

Wärtsilä to upgrade largest residential ship in the world. *Wärtsilä Corporation* [Online]. 20 January 2016. Available from: http://www.wartsila.com/media/news/20-01-2016-wartsila-to-upgrade-largest-residential-ship-in-the-world "The World", the largest, private, residential ship on the seas, will be retrofitted with a Wärtsilä Advanced Wastewater treatment system and a Wärtsilä Nacos Platinum system for navigation and external communication purposes.

Italy's RINA to start classifying Iranian ships in weeks. By Jonathan Saul. *Reuters* [Online]. 19 January 2016. Available from: http://uk.reuters.com/article/iran-nuclear-shipping-rina-idUKL8N1534EO Jan 19 Italy's RINA expects to start verifying safety and environmental standards for Iranian ships including oil tankers in a matter of weeks, the classification society said, stealing a lead on rivals as business interest in Iran heats up.

Ever Changing Weather Patterns For Mariners. *Dryad Maritime* [Online]. 19 January 2016. Available from: http://www.dryadmaritime.com/ever-changing-weather-patterns-for-mariners/ January 2016 has started with two significant and rare tropical storms both of which are out of season.

World Economic Outlook (WEO) Update : Subdued Demand, Diminished Prospects. *International Monetary Fund (IMF)* [Online]. January 2016. Available from: http://www.imf.org/external/pubs/ft/weo/2016/update/01/ Update

Special ballast water exchange requirements in Iranian ports. *Hellenic Shipping News* [Online]. 21 January 2016. Available from: http://www.hellenicshippingnews.com/special-ballast-water-exchange-requirements-in-iranian-ports/ On 19 January 2016 Gard's correspondent in Iran, Calm Sea Culture Marine Services Ltd. (C.S.C), advised that the Iranian Ports and Maritime Organization (PMO) had issued a notice to shipowners and operators.

Greeks reject EU demand for tax overhaul. By Harry Papachristou. *TradeWinds* [Online]. 21 January 2016. Available from: http://www.tradewindsnews.com/finance/382364/greeks-reject-eu-demand-for-tax-overhaul The Union of Greek Shipowners (UGS) has rejected the European Commission's demand that Greece overhaul its shipping tax system, dismissing an EU claim that current tax rules are distorting competition in the industry.

Interview: Inna Kuznetsova, President of INTTRA Marketplace. *Maritime Executive* [Online]. 20 January 2016. Available from: http://www.maritime-executive.com/article/interview-inna-kuznetsova-president-of-inttra-marketplace Global e-commerce platform INTTRA is the world's largest electronic marketplace for carriers, freight forwarders and shippers.

Navy Carrier Group Powered Partly by Biofuel Sets Sail. By Julie Watson. *ABC News (US)* [Online]. 20 January 2016. Available from: http://abcnews.go.com/US/britax-recalls-71000-infant-car-seats/story?id=36444905 The Navy on Wednesday launched its first carrier strike group powered partly by biofuel — a mix made from beef fat — calling it a milestone toward easing the military's reliance on foreign oil.

Greeks fire back in tax spat with Brussels. By Nigel Lowry. *Lloyd's List* [Online]. 21 January 2016. Available from: http://www.lloydslist.com/ll/sector/regulation/article477901.ece? PRESSURE from Brussels to change Greece's shipping tax regime could further undermine the country's crisis-mired economy as well as imperil a large chunk of Europe's shipping strength, the Union of Greek Shipowners has warned.

The case for adopting latest version of ISO 8217 specifications in bunkering. By Josephine Goh. *Seatrade Maritime News* [Online]. 22 January 2016. Available from: http://www.seatrade-maritime.com/news/americas/the-case-for-adopting-latest-version-of-iso-8217-specifications-in-bunkering.html The ISO 8217:2012, the current and fifth edition of the ISO 8217 international fuel standard was driven by the IMO push for improved bunker quality to enhance crew and machinery operational safety, as well as increased health and environmental protection.

Zombie ships send maritime freight into worst crisis in living memory. By John Ficenec. *The Telegraph* [Online]. 22 January 2016. Available from: http://www.telegraph.co.uk/finance/12108453/Zombie-ships-send-maritime-freight-into-worst-crisis-in-living-memory.html Cheap debt, the China slowdown, and a glut of ships have seen the Baltic Dry Index plummet to its lowest level in more than 30 years.

The World Has Discovered a $1 Trillion Ocean. *Bloomberg* [Online]. 21 January 2016. Available from: http://www.bloomberg.com/news/articles/2016-01-21/the-world-has-discovered-a-1-trillion-ocean The Arctic is open for business, and everyone wants a piece.

RS is authorised to survey ships for compliance with Polar Code. *Russian Maritime Register of Shipping (RS)* [Online]. 25 January 2016. Available from: http://www.rs-class.org/en/register/news/detail.php?ID=11272 Russian Maritime Register of Shipping (RS) has been authorised by the Ministry of Transport of the Russian Federation to carry out surveys of ships flying the flag of the Russian Federation for compliance with the International Code for Ships Operating in Polar Waters (Polar Code).

Tanker Shipping: Still a strong market as demand stays high. *Baltic and International Maritime Council (BIMCO)* [Online]. 25 January 2016. Available from: https://www.bimco.org/Reports/Market_Analysis/2016/0125_TankerSMOO_2016-01.aspx One of the most characteristic developments in 2015 was the declining price of crude oil during the second half of the year.

Flags States: Who's Flying High? *Hellenic Shipping News* [Online]. 25 January 2016. Available from: http://www.hellenicshippingnews.com/flags-states-whos-flying-high/ Flag states play a key role in the introduction of new regulation within the shipping industry and their influence is largely determined by the size of their fleets.

IOMAC Convenes Int'l Conference to Review Marine Mammals and Ship Strikes in Colombo. *The Island (Sri Lanka)* [Online]. 23 January 2016. Available from: http://www.island.lk/index.php?page_cat=article-details&page=article-details&code_title=139128 A three day consultative process to examine the issues among other things relating to alleged ship- strikes on marine mammals in the context of some NGO's trying to take action internationally to discourage international shipping from sailing close to the coast of Sri Lanka especially off the south coast.

Interferry: Aiming High in the Cause of Common Sense. By Len Roueche. *MarineLink.Com* [Online]. 26 January 2016. Available from: http://www.marinelink.com/news/interferry-aiming-common404084.aspx With U.S. origins dating back more than 40 years, Interferry is the trade association and main voice for the global ferry sector - a crucial but often forgotten part of the wider shipping industry.

Bureau Veritas to class luxury Polar expedition cruise vessel. *Bureau Veritas* [Online]. 26 January 2016. Available from: http://www.bureauveritas.com/home/news/business-news/class-luxury-polar-expedition-cruise-vessel-260116 Leading classification society Bureau Veritas is to class a new concept luxury expedition cruise vessel to be built for Australia's Scenic group.

European shipowners support EU guidelines on places of refuge. *European Community Shipowners' Associations (ECSA)* [Online]. 28 January 2016. Available from: http://www.ecsa.eu/9-latest-news/234-european-shipowners-support-eu-guidelines-on-places-of-refuge European shipowners endorsed yesterday the adoption of EU operational guidelines on places of refuge for ships in distress at sea, which were produced by the Cooperation Group on Places of Refuge, bringing together Member States, the European Commission and industry. Places of Refuge; EU Operational Guidelines

Shipping in a Changing Northern Climate: Where Do We Go From Here? By Kala Pendakur. *Conference Board of Canada* [Online]. 27 January 2016. Available from: http://www.conferenceboard.ca/commentaries/northern-aboriginal/default/16-01-27/shipping_in_a_changing_northern_climate_where_do_we_go_from_here.aspx The very climatic changes that are opening up Northern waters to exploration and shipping are the same changes that are making these activities more difficult.

Shipbrokers are pessimistic about the future of the shipping markets moving forward. *Hellenic Shipping News* [Online]. 28 January 2016. Available from: http://www.hellenicshippingnews.com/shipbrokers-are-pessimistic-about-the-future-of-the-shipping-markets-moving-forward/ Pessimism is the word on the street, when it comes to describing the future of the shipping markets moving forward into 2016.

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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.