

INTERNATIONAL MARITIME ORGANIZATION

MARITIME KNOWLEDGE CENTRE

“sharing maritime knowledge”

CURRENT AWARENESS BULLETIN

March 2016



Maritime Knowledge Centre
maritimeknowledgecentre@imo.org
INTERNATIONAL MARITIME ORGANIZATION
www.imo.org



About the MKC Current Awareness Bulletin (CAB)

The aim of the MKC Current Awareness Bulletin (CAB) is to provide a digest of news and publications focusing on subject areas related to the work of IMO. Each CAB issue presents headlines from the previous month. For copyright reasons, the *Current Awareness Bulletin* (CAB) contains excerpts only. Links to the complete articles or abstract on publishers' sites are included when available, though access may require payment or subscription.

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

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

The *Current Awareness Bulletin* (CAB) is published by the Maritime Knowledge Centre and is not an official IMO publication. Inclusion does not imply any endorsement by IMO.

CONTENTS

IMO / UNITED NATIONS NEWS & EVENTS	2
--	---

INDUSTRY NEWS AND PUBLICATIONS

CASUALTIES.....	6
ENVIRONMENT	9
ENVIRONMENTAL POLLUTION	14
HEALTH	15
HEALTH AND SAFETY	16
IMO	16
LAW AND POLICY	17
MARINE TECHNOLOGY.....	22
MARITIME SAFETY	23
MARITIME SECURITY	25
MARITIME TRAINING	27
MIGRANTS	29
NAVIGATION AND COMMUNICATIONS	36
PIRACY.....	37
PORT STATE CONTROL.....	38
PORTS AND HARBOURS	38
RECYCLING OF SHIPS	39
REGULATIONS	40
SEAFARERS	42
SEARCH AND RESCUE	44
SHIPBUILDING AND SHIPREPAIR	44
SHIPPING.....	45
RESEARCH.....	54

IMO / UNITED NATIONS NEWS & EVENTS

WHAT'S NEW

Women on board

Two IMO films on women in the maritime industry are being shown at the “Women on Board” exhibition at Hamburg’s International Maritime Museum, Germany (March – June 2016). The films “Women at the Helm” and “Making Waves: Women leaders in the maritime world” are part of IMO’s continuing efforts to promote the advancement of women in shipping. These latest screenings follow International Women’s Day, which saw IMO join the annual global celebration and awareness campaign on 8 March.

Find out more about women in the maritime industry via the IMO website [here](#).

View the video “Women at the Helm” [here](#).

View the video “Making Waves: Women leaders in the maritime world” [here](#).

IMO’s role in climate change promoted at CC:Learn meeting

IMO participated in the annual meeting of the One United Nations Climate Change Learning Partnership ([UN CC:Learn](#)) in Geneva (24-25 February). IMO joined the partnership, which consists of more than 30 UN organizations that have an interest in climate change learning, last year. The [CC:Learn e-Learning](#) platform provides quality, freely available e-learning resources on climate change, with each course building on the expertise of relevant UN partners. Theofanis Karayannis represented IMO at the meeting ([click](#) to watch video).

PROGRAMME OF IMO MEETINGS FOR 2016, [Meeting Summaries](#)

[Sub-Committee on Ship Systems and Equipment \(SSE\)](#)
3rd session, 14 – 18 March 2016

IMO PRESS BRIEFINGS

[IMO NEWS MAGAZINE](#) [\(Issue 4, 2015\)](#)

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

RECENT SPEECHES BY IMO SECRETARY-GENERAL KITACK LIM

[Sub-Committee on Ship Systems and Equipment \(SSE\)](#)

3rd session, 14 – 18 March 2016 (Opening Address)

[International Parcel Tankers Association \(IPTA\) Conference 2016](#)

8th session, 8 March 2016

[International Cargo Handling Coordination Association \(ICHCA\) International Conference](#)

1 March 2016

UNITED NATIONS NEWS

General Assembly President announces meeting dates for UN Secretary-General candidates.

UN News Centre [Online]. 26 February 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsId=53325> As the process to select the next United Nations Secretary-General gets under way, the President of the General Assembly announced today that he will hold a series of informal dialogues and meetings with all potential candidates from 12 to 14 April.

2030 Agenda's promise of well-managed migration and mobility must become a reality – UN deputy chief.

UN News Centre [Online]. 29 February 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsId=53339> The promise of the 2030 Agenda for Sustainable Development is that well-managed migration and mobility will benefit migrants and their families as well as countries of origin and destination, United Nations Deputy Secretary-General said today, urging Member States to work together to "make sure this promise becomes a reality."

Ban says Europe's border restrictions not in line with international law 'or human decency'.

UN News Centre [Online]. 1 March 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsId=53349> In Spain this evening, United Nations Secretary-General Ban Ki-moon praised the country's efforts to address some of "the most urgent issues on the international agenda," including the plight of asylum seekers fleeing across the Mediterranean, and the devastating war in Syria.

Human rights treaties are 'bedrock of sound governance,' says top UN official marking 50th anniversary.

UN News Centre [Online]. 1 March 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsId=53347> Marking 50 years since the unanimous adoption of two United Nations human rights treaties – respectively promoting respect for civil and political, and economic, social and cultural rights – a top UN official today said the landmark covenants have helped extend rights to people crushed by tyranny and discrimination for generations.

'Stand out and stand together,' says UN on Zero Discrimination Day.

UN News Centre [Online]. 1 March 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=53340> The United Nations agency leading the world's HIV/AIDS response today called on the international community to celebrate individuality, as it observed Zero Discrimination Day, stressing that embracing diversity brings valuable benefits to all societies around the world.

Marking World Wildlife Day, UN calls for global actions to save planet's most iconic species.

UN News Centre [Online]. 3 March 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=53358> "Time is running out" to end wildlife poaching that threatens some of the world's most iconic species, such as elephants, Secretary-General Ban Ki-moon said today as the United Nations marked World Wildlife Day.

UN rights chief calls on EU to adopt more 'humane' measures on migration.

UN News Centre [Online]. 10 March 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsId=53412> The United Nations human rights chief today reiterated his profound concern about the situation faced by refugees and migrants "in extreme vulnerability," and urged the European Union to adopt a more humane set of measures on migration at a summit next week.

UN statistical body agrees to global indicators to measure sustainable development goals. *UN News Centre* [Online]. 11 March 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=53429> The United Nations Statistical Commission today agreed on a set of global indicators that will measure success towards the new sustainable development agenda, which will lead anti-poverty efforts through 2030.

'Refugees need protection, not rejection,' UN says in wake of EU-Turkey deal. *UN News Centre* [Online]. 18 March 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=53490> The United Nations refugee agency has stressed the importance of ensuring safeguards in carrying out today's agreement between the European Union (EU) and Turkey on the situation of refugees and migrants making their way to Europe.

Holding urgent closed-door talks, Security Council condemns DPR Korea ballistic missile test. *UN News Centre* [Online]. 18 March 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=53494> Expressing 'grave concern,' the United Nations Security Council has strongly condemned the ballistic missile launches conducted by the Democratic People's Republic of Korea (DPRK) earlier today and on 10 March, pledging to closely monitor the situation and 'act as appropriate.'

Security Council Committee Established Pursuant to Resolution 1718 (2006) Removes Names of Four Vessels from List of Economic Resources Controlled or Operated by Ocean Maritime Management. *United Nations* [Online]. 21 March 2016. Available from: <http://www.un.org/press/en/2016/sc12296.doc.htm> The Committee notes that new measures have been taken to establish confidence that these vessels are not operated or controlled by Ocean Maritime Management.

'The future is happening now,' warns UN, calling for urgent measures to cut carbon emissions. *UN News Centre* [Online]. 21 March 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=53509> The Earth is already one degree Celsius hotter than at the start of the 20th century, halfway to the critical two-degree threshold, and national climate change plans adopted so far may not be enough to avoid a three-degree temperature rise, the UN weather agency warned today upon the release of its 2015 annual report on the status of the climate.

Commission on Limits of Continental Shelf Concludes Fortieth Session. *United Nations* [Online]. 28 March 2016. Available from: <http://www.un.org/press/en/2016/sea2030.doc.htm> The Commission on the Limits of the Continental Shelf held its fortieth session at United Nations Headquarters from 1 February to 18 March 2016.

Preparatory Committee: Development of an international legally binding instrument under the United Nations Convention on the Law of the Sea on the conservation and sustainable use of marine biological diversity of areas beyond national jurisdiction. 1st Session, 28 March - 8 April 2016. *United Nations Division for Ocean Affairs and the Law of the Sea (DOALOS)* [Online]. 28 March 2016. Available from: <http://www.un.org/depts/los/biodiversity/prepcom.htm> In its resolution 69/292 of 19 June 2015, the General Assembly decided to develop an international legally binding instrument under the United Nations Convention on the Law of the Sea (UNCLOS) on the conservation and sustainable use of marine biological diversity of areas beyond national jurisdiction.

CASUALTIES

Attempt to refloat *Aurora Australis* as weather conditions ease. *Government of Australia* [Online]. 26 February 2016. Available from: <http://www.antarctica.gov.au/news/2016/aurora-australis-to-be-refloated-as-weather-conditions-ease> Expeditioners on board the *Aurora Australis* have been successfully transferred by barge to Mawson station.

***El Faro*: Boiler Fireboxes In "Very Bad Shape".** *Maritime Executive* [Online]. 25 February 2016. Available from: <http://www.maritime-executive.com/article/el-faro-boiler-fireboxes-in-very-bad-shape> At Thursday's Marine Board of Investigation hearing into the loss of the *El Faro*, Luke Laasko, a superintendent for Walashek Industrial & Marine, gave testimony regarding his survey of her starboard side boiler.

***El Faro* probe reveals flaws in US flag-state inspections. By Eric Martin.** *TradeWinds* [Online]. 25 February 2016. Available from: <http://www.tradewindsnews.com/weekly/386629/el-faro-probe-reveals-flaws-in-us-flag-state-inspections> An investigation into the *El Faro* sinking has revealed a potential weakness in the oversight of US programmes that delegate the US Coast Guard (USCG)'s authority to carry out flag-state inspections and plan approval.

Hit-and-run vessel caught at sea. By Dinesh Gerijan. *Sun Daily (Malaysia)* [Online]. 23 February 2016. Available from: <http://www.thesundaily.my/news/1708066> A runaway vessel which was involved in a hit and run accident with two other vessels was seized by the Malaysia Maritime Enforcement Agency DM 7 Tanjung Sedili District in the waters of Tanjung Ramunia last Sunday.

Man Dies after Falling Overboard in Tauranga Port. *World Maritime News* [Online]. 29 February 2016. Available from: <http://worldmaritimeneeds.com/archives/184229/man-dies-after-falling-overboard-in-tauranga-port/> The body of a man, believed to be a Chinese national, was discovered after he fell overboard a vessel moored in Tauranga Port, according to New Zealand Police Department.

***Aurora Australis* successfully refloated.** *Government of Australia* [Online]. 27 February 2016. Available from: <http://www.antarctica.gov.au/news/2016/aurora-australis-successfully-refloated> The *Aurora Australis* has been successfully refloated and has made its way out of Mawson harbour.

U.S. Coast Guard wraps up first phase of *El Faro* disaster probe. By Barbara Liston. *Reuters* [Online]. 26 February 2016. Available from: <http://www.reuters.com/article/us-ship-elfaro-idUSKCN0VZ2RW> The U.S. investigation into the deadly sinking of the *El Faro* cargo ship during a hurricane last fall shifted direction on Friday, as the Coast Guard wrapped up its initial public hearings on the accident that killed all 33 people onboard.

Salvage team to fence off sunken *Sewol* ferry. By Yoon Min-sik. *Korea Herald* [Online]. 28 February 2016. Available from: <http://www.koreaherald.com/view.php?ud=20160228000274> The salvage team for *Sewol* plans to install an underwater fence around the sunken ferry to ensure that the bodies of missing passengers that may be still inside are not lost during the salvage operation, government officials said Sunday.

Oil Spills from Bulk Carrier off France. *World Maritime News* [Online]. 3 March 2016. Available from: <http://worldmaritimeneeds.com/archives/184542/video-oil-spills-from-bulk-carrier-off-france/> An oil slick from a bulk carrier was detected during a surveillance flight in the French exclusive economic zone, some 185 nautical miles from Penmarch, the French maritime authorities said.

Three ships go adrift in French storms. By Gary Dixon. *TradeWinds* [Online]. 4 March 2016. Available from: <http://www.tradewindsnews.com/casualties/387851/three-ships-go-adrift-in-french-storms> Three cargo vessels needed tows after suffering engine and propulsion problems in storms off France this week.

Bulker Sinks off Shanghai, 14 Crew Evacuated. *World Maritime News* [Online]. 4 March 2016. Available from: <http://worldmaritimenews.com/archives/184652/bulker-sinks-off-shanghai-14-crew-evacuated/> A Chinese bulk carrier *Bao Jiang 88* capsized and subsequently sank some two nautical miles off Shanghai's Yangshan port in Jinshan Fairway on February 29, according to the Shanghai Maritime Safety Administration.

Ferry capsizes in Bali strait; all passengers rescued. *Channel News Asia* [Online]. 4 March 2016. Available from: <http://www.channelnewsasia.com/news/asiapacific/ferry-capsizes-in-bali/2573294.html> Preliminary investigations showed the incident was caused by a leak that occurred just as the ferry had departed Gilimanuk, Bali, towards the Ketapang Port in East Java.

Passengers jump into sea as ferry sinks in Bali. *Jakarta Post* [Online]. 4 March 2016. Available from: <http://www.thejakartapost.com/news/2016/03/04/passengers-jump-sea-ferry-sinks-bali-strait.html> A ferry capsized in the strait between the islands of Bali and Java on Friday and TV footage showed passengers standing on its side then jumping into the sea as the boat sank in placid waters.

Two Indian Seafarers Killed in Fire. *World Maritime News* [Online]. 7 March 2016. Available from: <http://worldmaritimenews.com/archives/184887/two-indian-seafarers-killed-in-fire/> Two Indian sailors have died in a fire that broke out on board the *Al Sadaa* tanker in Yemen, according to India's Minister of External Affairs, Sushma Swaraj.

Many passengers of *Rafelia II* ship that sank still missing: Police. By Gembong Ismadi. *Antara News (Indonesia)* [Online]. 5 March 2016. Available from: <http://www.antaranews.com/en/news/103487/many-passengers-of-rafelia-ii-ship-that-sank-still-missing-police> As many as 48 passengers of the *LCT Rafelia II*, which sank in Bali Strait on Friday, have been evacuated, but a dozen others were still missing, police said.

More *El Faro* Families Settle. *Maritime Executive* [Online]. 4 March 2016. Available from: <http://www.maritime-executive.com/article/more-el-faro-families-settle> Four more families of *El Faro* crew members have reached a financial settlement with the vessel's owners, bringing the total number of settlements so far to 14.

Accident Investigation Report 4/2016: Collision between stern trawlers *Good Intent* and *Silver Dee* resulting in *Silver Dee* sinking. *UK Marine Accident Investigation Branch (MAIB)* [Online]. 9 March 2016. Available from: <https://www.gov.uk/maib-reports/collision-between-stern-trawlers-good-intent-and-silver-dee-resulting-in-silver-dee-sinking> On 29 July 2015, the fishing vessels *Silver Dee* and *Good Intent* collided in the Irish Sea. [Report](#) 

Another New Shipping bulker runs aground. By Eric Martin. *TradeWinds* [Online]. 9 March 2016. Available from: <http://www.tradewindsnews.com/casualties/388291/another-new-shipping-bulker-runs-aground> A New Shipping bulker has run aground off the coast of Madagascar in the second casualty for the Greek shipowner this week.

P&I Claim Analysis 2016. *Swedish Club* [Online]. March 2016. Available from: https://www.swedishclub.com/media_upload/files/Publications/P%26I%20Claims%20Analysis%20web.pdf  Costly cargo claims are often due to catastrophic claims, such as total losses; fires; or navigational claims, which we define as collisions, contact or groundings.

New Report From The Swedish Club Shines Light On Vessel Claims. *Hellenic Shipping News* [Online]. 16 March 2016. Available from: <http://www.hellenicshippingnews.com/new-report-from-the-swedish-club-shines-light-on-vessel-claims/> The life of seafarers is never straightforward, and as a new report from the Swedish Club shows, the hazards and job complexities they face are very much dependent on the type of vessel they find themselves crewing.

Accident Investigation Report 6/2016: Hoegh Osaka report published. *UK Marine Accident Investigation Branch (MAIB)* [Online]. 17 March 2016. Available from: <https://www.gov.uk/government/news/hoegh-osaka-report-published>  The MAIB's investigation found that *Hoegh Osaka*'s stability did not meet the minimum international requirements for ships proceeding to sea. [Report](#)  [Annexes](#) 

Safety lessons: Assessing adequate stability before departure. *UK Marine Accident Investigation Branch (MAIB)* [Online]. 17 March 2016. Available from: <https://www.gov.uk/government/publications/safety-lessons-assessing-adequate-stability-before-departure> This safety message concerns the listing, flooding and grounding of pure car and truck carrier *Hoegh Osaka* on the Bramble Bank, The Solent. [Safety flyer - Hoegh Osaka: Listing, flooding and grounding on 3 January 2015](#) 

Stranded Hoegh Osaka cargo ship 'not loaded properly'. By Steve Humphrey. *BBC News* [Online]. 17 March 2016. Available from: <http://www.bbc.co.uk/news/uk-35830563>  A cargo ship which became stranded in the Solent for 19 days after developing a severe list was unstable when it left port, a report says.

Cargoship lists after grounding. By Gary Dixon. *TradeWinds* [Online]. 22 March 2016. Available from: <http://www.tradewindsnews.com/casualties/389675/cargoship-lists-after-grounding> A cargoship has developed a list to port after running aground off Norway.

Marine safety investigations & reports: Fire on board the livestock carrier *Ocean Drover*, Fremantle, WA on 9 October 2014. *Australian Transport Safety Bureau (ATSB)* [Online]. 11 March 2016. Available from: https://www.atsb.gov.au/publications/investigation_reports/2014/mair/315-mo-2014-012/ The ship's crew and shore emergency response teams responded and fire-fighting efforts continued for the rest of the day. [Report](#) 

Number of water transport accidents in Russia up 62% in 2015. *Port News* [Online]. 22 March 2016. Available from: <http://portnews.ru/news/216569/> In 2015, the number of water transport accidents increased by 62%, 91 lives lost, number of accidents involving fishing ships up 2.5 times (23 accidents resulting in 74 lives lost), Sergei Staritsky, acting head of the Federal Agency for Transport Supervision (Gosmorrechnadzor) said in his final report at the Agency's Board meeting held today, March 22, 2016.

Cargo Ship Goes Aground, Sinks Off Sulawesi. *Maritime Executive* [Online]. 23 March 2016. Available from: <http://www.maritime-executive.com/article/photos-cargo-ship-goes-aground-sinks-off-sulawesi> On March 22, the general cargo ship *Bunga Melati XV* sank alongside a pier in the port of Tagulandang, North Sulawesi, after hitting a reef.

The mystery of the missing *USS Conestoga* is solved. *US National Oceanic and Atmospheric Administration (NOAA)* [Online]. 23 March 2016. Available from: <http://www.noaa.gov/mystery-missing-uss-conestoga-solved> NOAA and the U.S. Navy have announced their discovery of the *USS Conestoga* (AT 54) in the Greater Farallones National Marine Sanctuary off San Francisco, 95 years after the Navy seagoing fleet tugboat disappeared with 56 officers and sailors on board.

Three dead after inhaling toxic gas from ship storage. By Stephanie Lee. *The Star (Malaysia)* [Online]. 29 March 2016. Available from: <http://www.thestar.com.my/news/nation/2016/03/29/three-dead-after-inhaling-gas-from-ship-fish-storage/> Three men died while three others are receiving treatment after inhaling poisonous gas from fish they had kept in a ship storage for a week.

Drunken captain runs Dutch ship aground in Rostock, blocking port entrance. By Darko Janjevic. *Deutsche Welle (DW) (Germany)* [Online]. 27 March 2016. Available from: <http://www.dw.com/en/drunken-captain-runs-dutch-ship-aground-in-rostock-blocking-port-entrance/a-19144788> The captain veered off course immediately after leaving port, damaging the 85-meter (279 feet) "*Abis Berger*," officials in the northern German city of Rostock said on Sunday.

Cargo ship sinks off Sharjah coast, one missing. By Aghaddir Ali. *Gulf News* [Online]. 26 March 2016. Available from: <http://gulfnews.com/news/uae/emergencies/cargo-ship-sinks-off-sharjah-coast-one-missing-1.1698283> The vessel sank on Wednesday morning with seven crew members on board.

ENVIRONMENT

Arctic thaw opens shipping waterways, risks to environment. By Jonathan Saul and Nina Chestney. *Reuters* [Online]. 25 February 2016. Available from: <http://uk.reuters.com/article/us-climate-shipping-arctic-idUKKCN0VY1N9> The Arctic is thawing even faster than lawmakers can formulate new rules to prevent the environmental threat of heavy fuel oil pollution from ships plying an increasingly popular trade route.

Ocean acidification slowing coral reef growth, study confirms. *The Guardian* [Online]. 24 February 2016. Available from: <http://www.theguardian.com/environment/2016/feb/24/ocean-acidification-slowing-coral-reef-growth-study-confirms> Coral reefs are having their growth stunted by ocean acidification caused by global warming, new research has confirmed.

Gulf of Mexico historic shipwrecks help scientists unlock mysteries of deep-sea ecosystems. *American Geophysical Union (AGU)* [Online]. 22 February 2016. Available from: <http://news.agu.org/press-release/gulf-of-mexico-historic-shipwrecks-help-scientists-unlock-mysteries-of-deep-sea-ecosystems/> 🗿 The 2010 *Deepwater Horizon* oil spill significantly altered microbial communities thriving near shipwrecks in the Gulf of Mexico, potentially changing these diverse ecosystems and degrading the historically and culturally significant ships they live on, according to new research being presented here.

Role of chaos in deep ocean turned upside down. By Devin Powell. *Nature* [Online]. 26 February 2016. Available from: <http://www.nature.com/news/role-of-chaos-in-deep-ocean-turned-upside-down-1.19455> In the deep abysses of the ocean, small swirls of water can wield great power.

Bathymetric Forum to Study Ocean Floor and How it Affects Critical Issues.

Handy Shipping Guide [Online]. 25 February 2016. Available from:

http://www.handyshippingguide.com/shipping-news/bathymetric-forum-to-study-ocean-floor-and-how-it-affects-critical-issues_7001

A conference to be held in Monaco in June, on the future of ocean floor mapping, will examine the ever-increasing pressures on the oceans of the world, the largest living space on Earth and perhaps its most precious resource, and seek solutions on how to address present and future challenges.

Fishermen and conservationists lobby government to stop 'ghost nets' from destroying marine life.

ABC (Australia) [Online]. 1 March 2016. Available from:

<http://www.abc.net.au/news/2016-03-01/ghost-nets-cleaned-up-by-northern-fishermen/7207222>

 Prawn fishermen operating off Queensland's north coast voluntarily remove abandoned fishing nets from their fishery as part of a partnership with World Animal Protection (WAP).

Study contracts for carbon dioxide transport.

Gassco [Online]. 29 February 2016.

Available from: <https://www.gassco.no/en/media/news-archive/-Study-contracts-for-carbon-dioxide-transport/>

Gassco has commissioned Knutsen OAS Shipping and Larvik Shipping to study transport of CO₂ by ship in connection with the Norwegian government's full-scale project for managing this greenhouse gas.

Europe readies next steps to implement the Paris Agreement.

European Commission [Online]. 2 March 2016. Available from:

http://ec.europa.eu/clima/news/articles/news_2016030201_en.htm

The European Commission today presented an assessment of the implications for the European Union of the new global climate agreement adopted in Paris in December 2015.

Commissioner meets top ocean scientists.

European Commission [Online]. 2 March 2016.

Available from: http://ec.europa.eu/newsroom/mare/itemdetail.cfm?item_id=29509&lang=en

European Commissioner for Environment, Maritime Affairs and Fisheries, Karmenu Vella, today met the heads of Europe's top marine research institutes in a bid to create new momentum in marine and ocean research.

Ending Illegal Fishing 2016 Efforts Build on Earlier Gains. By Tony Long.

Pew Charitable Trusts [Online]. 3 March 2016. Available from:

<http://www.pewtrusts.org/en/research-and-analysis/analysis/2016/03/03/ending-illegal-fishing-2016-efforts-build-on-earlier-gains>

The Pew Charitable Trusts' ending illegal fishing project and its partners have seen significant successes in recent years.

Seven miles deep, the ocean is still a noisy place.

US National Oceanic and Atmospheric Administration (NOAA) [Online]. 2 March 2016. Available from:

<http://www.noaa.gov/seven-miles-deep-ocean-still-noisy-place>

For three weeks, a titanium-encased hydrophone recorded ambient noise from the ocean floor at a depth of more than 36,000 feet, or 7 miles, in the Challenger Deep trough in the Mariana Trench near Micronesia.

New maps may help reduce threats for whales, dolphins in U.S. waters.

Duke University (USA) [Online]. 3 March 2016. Available from:

<https://nicholas.duke.edu/about/news/new-maps-may-help-reduce-threats-whales-dolphins-us-waters>

The maps, which are freely available online here, integrate data from nearly 1.1 million linear kilometers of surveys and more than 26,000 sightings collected by researchers at five institutions over 23 years.

Habitat-based cetacean density models for the U.S. Atlantic and Gulf of Mexico (2015 version).

Duke University (USA) [Online]. 2015. Available from:

<http://seamap.env.duke.edu/models/Duke-EC-GOM-2015/>

 Cetaceans are protected worldwide but vulnerable to incidental harm from an expanding array of human activities at sea.

Wärtsilä research project eliminates problem of 'singing' propellers. *Wärtsilä Corporation* [Online]. 4 March 2016. Available from: <http://www.wartsila.com/media/news/04-03-2016-wartsila-research-project-eliminates-problem-of-singing-propellers> A joint research project carried out by Wärtsilä and City University London has succeeded in identifying the specific design parameters that create the risk of 'singing' propellers.

Marine Life Thrives in Unlikely Place: Offshore Oil Rigs. By Erik Olsen. *New York Times* [Online]. 7 March 2016. Available from: <http://www.nytimes.com/2016/03/08/science/marine-life-thrives-in-unlikely-place-offshore-oil-rigs.html>  Eight miles off the coast of Long Beach, Calif., the oil rig *Eureka*, which has stood here for 40 years, is a study in contrasts.

Why Conserve Marine Mammals and Environmental Health of the Ocean? By Sarah Muiz. *Daily Mirror (Sri Lanka)* [Online]. 9 March 2016. Available from: <http://www.dailymirror.lk/106595/Why-Conserve-Marine-Mammals-and-Environmental-Health-of-the-Ocean-> One of the oldest and most magnificent of sea creatures, whales are unique marine species that should be protected at all costs.

Conservation sea change. *Science Daily* [Online]. 10 March 2016. Available from: <https://www.sciencedaily.com/releases/2016/03/160310143914.htm> Beyond the breakers, the ocean is like the Wild West.

Obama and Trudeau pledge to protect a warming Arctic. By Evan Dyer. *Canadian Broadcasting Corporation (CBC)* [Online]. 11 March 2016. Available from: <http://www.cbc.ca/news/politics/us-canada-arctic-protection-1.3486062> It was the lure of a Northwest Passage through the ice that once drew Henry Hudson and John Franklin to Canada's Far North.

U.S.-Canada Joint Statement on Climate, Energy, and Arctic Leadership. *The White House* [Online]. 10 March 2016. Available from: <https://www.whitehouse.gov/the-press-office/2016/03/10/us-canada-joint-statement-climate-energy-and-arctic-leadership> President Barack Obama and Prime Minister Justin Trudeau share a common vision of a prosperous and sustainable North American economy, and the opportunities afforded by advancing clean growth.

What role for trade and investment in the new climate regime? By Ingrid Jegou, Sonja Hawkins, and Kimberley Botwright. *International Centre for Trade and Sustainable Development (ICTSD)* [Online]. 11 March 2016. Available from: <http://www.ictsd.org/bridges-news/bridges-africa/news/what-role-for-trade-and-investment-in-the-new-climate-regime> In a historic move, parties to the UN Framework Convention on Climate Change (UNFCCC) successfully landed the first multilateral climate treaty since the 1997 Kyoto Protocol during the Twenty-first Conference of the Parties (COP21) held in Paris, France, last December.

HELCOM agrees on a roadmap for a Baltic Sea NECA. *Baltic Marine Environment Protection Commission (HELCOM)* [Online]. 10 March 2016. Available from: <http://www.helcom.fi/news/Pages/HELCOM-agrees-on-a-Roadmap-for-a-Baltic-Sea-NECA.aspx> The Helsinki Commission (HELCOM) have agreed on a Roadmap which includes a commitment to submit to IMO a proposal for a Baltic Sea NOx Emission Control Area (NECA) - according to the IMO MARPOL Convention Annex VI -? in parallel with the North Sea.

WWF Magazine The Circle Issue 1 2106: The EU and the Arctic. *WWF* [Online]. 2016. Available from: http://awsassets.panda.org/downloads/thecircle0116_web.pdf 

Maersk, Cargill back faster shipping emissions cuts. By Megan Darby. *Climate Home* [Online]. 10 March 2016. Available from: <http://www.climatechangenews.com/2016/03/10/maersk-cargill-back-faster-shipping-emissions-cuts/> The global shipping fleet should be cutting its fuel use 20% a decade, according to a coalition of 15 business leaders.

2016 IUU Report Media Launch: Statement of the FFA Director General Mr James T. Movick. *Pacific Islands Forum Fisheries Agency (FFA)* [Online]. 15 March 2016. Available from: <https://www.ffa.int/node/1671> Ladies and Gentlemen, as you have heard from Minister Pita, FFA is very encouraged by the results of this study. [2016 IUU Report](#) 

Illegal fishing worth \$600m in the Pacific amounts to 'daylight robbery'. By Eleanor Ainge Roy. *The Guardian* [Online]. 15 March 2016. Available from: <http://www.theguardian.com/environment/2016/mar/15/illegal-fishing-worth-600m-in-the-pacific-amounts-to-daylight-robbery> Illegal fishing in the Pacific Ocean is costing more than \$600m a year and is mainly being carried out by legally licensed fishing vessels, a report has found.

Climate hopes raised as global energy emissions stall for second year. By Alex Pashley. *Climate Home* [Online]. 16 March 2016. Available from: <http://www.climatechangenews.com/2016/03/16/climate-hopes-raised-as-global-energy-emissions-stall-for-second-year/> Renewable power played a "critical role" in holding CO2 emissions to around 32 billion tonnes, the International Energy Agency said in a statement.

Decoupling of global emissions and economic growth confirmed. *International Energy Agency (IEA)* [Online]. 16 March 2016. Available from: <http://www.iea.org/newsroomandevents/pressreleases/2016/march/decoupling-of-global-emissions-and-economic-growth-confirmed.html> Global energy-related carbon dioxide emissions (CO2) - the largest source of man-made greenhouse gas emissions - stayed flat for the second year in a row, according to analysis of preliminary data for 2015 released today by the International Energy Agency (IEA).

Marine Protected Areas Beyond National Jurisdiction. *Pew Charitable Trusts* [Online]. 15 March 2016. Available from: <http://www.pewtrusts.org/en/research-and-analysis/issue-briefs/2016/03/marine-protected-areas-beyond-national-jurisdiction> Although we still know little about the intricate ocean ecosystems far offshore, we do know this: Once thought to be barren marine deserts, the high seas and deep ocean beneath them are teeming with life.

The Buckingham Palace Declaration. *United for Wildlife* [Online]. 15 March 2016. Available from: <http://www.unitedforwildlife.org/#/2016/03/the-buckingham-palace-declaration> Today, the United for Wildlife Transport Taskforce member organisations sign up to recommendations developed collaboratively over the last 12 months, with the historic first ever signing of a declaration at Buckingham Palace.

Prince William in plan to tackle wildlife trafficking. *BBC News* [Online]. 15 March 2016. Available from: <http://www.bbc.co.uk/news/uk-35814135>  A declaration was signed by 40 companies at Buckingham Palace, to tackle criminals moving horn, ivory and other animal parts for huge profits.

U.S. government proposes new drilling leases in Beaufort and Chukchi Seas. By Hilary Bird. *Canadian Broadcasting Corporation (CBC)* [Online]. 16 March 2016. Available from: <http://www.cbc.ca/news/canada/north/us-govt-proposes-arctic-drilling-leases-1.3492963> Less than a week after Prime Minister Justin Trudeau and U.S. President Barack Obama committed to protect Arctic waters, the U.S. government has announced it's planning on opening up oil and gas leases in the Beaufort and Chukchi Seas.

Will Any Oil Company Ever Drill in the Arctic? By Robinson Meyer. *The Atlantic* [Online]. 18 March 2016. Available from: <http://www.theatlantic.com/technology/archive/2016/03/will-any-oil-company-ever-drill-in-the-arctic/474234/> On Tuesday, the Obama administration announced that—after concerns from the Pentagon—it would not open new oil reserves near the southeastern Atlantic coast for drilling.

Dramatic new video and pictures of coral bleaching on the Great Barrier Reef. *WWF* [Online]. 21 March 2016. Available from: http://www.wwf.org.au/news_resources/?15960/Dramatic-new-video-and-pictures-of-coral-bleaching-on-the-Great-Barrier-Reef 📺 The video was shot by a CoralWatch team led by Professor Justin Marshall from the University of Queensland and the stills were shot by XL Catlin Seaview Survey.

Coral mortality rises in remote far north. *Government of Australia* [Online]. 20 March 2016. Available from: <http://www.gbrmpa.gov.au/media-room/latest-news/coral-bleaching/2016/coral-mortality-rises-in-remote-far-north> While heavy rain and cloud cover have brought relief to much of the Great Barrier Reef from the ongoing global coral bleaching event, recent underwater surveys have detected substantial levels of coral mortality in the remote far north on inshore Cape York reefs.

Protecting 30 percent of the ocean has many benefits, study suggests. *University of York (UK)* [Online]. 21 March 2016. Available from: <http://www.york.ac.uk/news-and-events/news/2016/research/oceans-conservation-fisheries/> Protecting large stretches of the ocean from human influence may well be good for conservation.

Why 30% of the Ocean Should Be Protected, According to New Study.

Pew Charitable Trusts [Online]. 21 March 2016. Available from: <https://www.youtube.com/watch?v=BN-RWyJITnU> 📺 A new study from top environmental scientists recommends safeguarding at least 30 percent of our ocean from exploitation and harm.

Ecuador just created a huge new Galapagos marine reserve — around an island named Darwin. By Chelsea Harvey. *Washington Post* [Online]. 21 March 2016. Available from: <https://www.washingtonpost.com/news/energy-environment/wp/2016/03/21/this-galapagos-island-named-darwin-will-now-anchor-a-vast-new-marine-reserve/> More than 180 years after Charles Darwin first set foot on the Galápagos islands, where his observations would help fuel many of his revolutionary ideas about biology and evolution, new protections will be enforced around the island that bears his name.

UW scientists say invasive species impacts much worse than thought.

By Adam Hinterhauer. *University of Wisconsin (USA)* [Online]. 21 March 2016. Available from: <http://news.wisc.edu/uw-scientists-say-invasive-species-impacts-much-worse-than-thought/> A new study shows the economic and ecological impact of invasive species in the Great Lakes has been dramatically underestimated.

ENVIRONMENTAL POLLUTION

Sticky slops: Facing the sustainable disposal of oily residues. By Vincent Favier.

Marine Professional / IMarEST [Online]. 1 March 2016. Available from:

<http://www.imarest.org/themarineprofessional/item/2199-sticky-slops-facing-the-sustainable-disposal-of-oily-residues> This month Vincent Favier, CEO, of Ecoslops shares his opinion on the problem of disposing of marine oil residues in a sustainable way, an issue that a lot of ship owners and operators face.

Weather Impedes Clean Up of Thai Bunker Spill. *Ship & Bunker* [Online]. 1 March 2016.

Available from: <http://shipandbunker.com/news/apac/284442-weather-impedes-clean-up-of-thai-bunker-spill> Due to high winds and waves, Thailand's Marine Department Sunday said it was unable to proceed with cleanup efforts for a bunker spill from the now sunken cruise liner *Ocean Dream* off Koh Nok in the Si Racha district, local media reports.

The litmus test. *ShipInsight* [Online]. 2 March 2016. Available from:

<https://www.shipinsight.com/the-litmus-test/> A lot of claims are made about the polluting impact of shipping; whether it is NO_x, SO_x CO₂ or particulates, shipping's output is either killing off marine life, contributing to early mortality, warming up the planet or acidifying the oceans.

Oil spill simulation. *Royal Gazette (Bermuda)* [Online]. 2 March 2016. Available from:

<http://www.royalgazette.com/article/20160302/NEWS/160309922> How the island would cope with an oil spill could be determined over the next two days in an exercise involving Rubis Energy and the Bermuda Regiment.

Russia's Rosneft reports large oil spill on Sakhalin island. By Vladimir Soldatkin. *Reuters*

[Online]. 3 March 2016. Available from: <http://www.reuters.com/article/us-oil-co-rosneft-spill-idUSKCN0W50Y1> Top Russian oil producer Rosneft said on Thursday that around 15 tonnes (110 barrels) of oil spilled off from an idled pipeline on the Pacific island of Sakhalin, while local ecologists say the scale of disaster is far larger.

Pacific islands urged to further. *Samoa Observer* [Online]. 5 March 2016. Available from:

http://www.sobserver.ws/en/05_03_2016/local/3272/Pacific-islands-urged-to-further.htm Much of our dialogue about waste disposal is, understandably, focused on the waste that we can see as we go about our day-to-day lives.

Island Condor* cleanest sea-going vessel to ever call on Rotterdam. *Port of Rotterdam

[Online]. 4 March 2016. Available from: <https://www.portofrotterdam.com/en/news-and-press-releases/island-condor-cleanest-sea-going-vessel-to-ever-call-on-rotterdam> On 1 July 2015, the *Island Condor* made a 'soundless' call on the port of Rotterdam. According to the Environmental Ship Index, this offshore supply ship is without a doubt the cleanest sea-going vessel to enter the port of Rotterdam this century.

MOL Vessel Linked to Spill During Bunkering at Los Angeles. *Ship & Bunker* [Online].

15 March 2016. Available from: <http://shipandbunker.com/news/am/454276-mol-vessel-linked-to-spill-during-bunkering-at-los-angeles> Mitsui O.S.K. Lines, Ltd. (MOL) vessel, the *Istra Ace*, has been linked to a bunker spill in the Port of Los Angeles (Port of L.A.) after the U.S. Coast Guard (USCG) said they had determined that a hatch on the cargo vessel was not made water tight during a bunkering operation on Sunday.

Great British Beach Clean: Results 2015. *Marine Conservation Society (MSC)* [Online]. 23 March 2016. Available from:

http://www.mcsuk.org/what_we_do/Clean%20seas%20and%20beaches/Reports%20and%20downloads/Beachwatch%20results%202015 Our 2015 Great British Beach Clean event has been yet another record breaker! [Great British Beach Clean 2015 Report](#) 

Pollution prevention and response sub-committee meeting – Seeking feedback.

By Andrew Murphy. *US Coast Guard Maritime Commons* [Online]. 23 March 2016.

Available from: <http://mariners.coastguard.dodlive.mil/2016/03/23/3232016-pollution-prevention-and-response-sub-committee-meeting-seeking-feedback/> Last month, the Coast Guard sent several members as part of the United States delegation to attend the Sub-Committee on Pollution Prevention and Response (PPR) at the International Maritime Organization's Headquarters in London.

HEALTH

UN health agency warns more cases of Zika expected with 'further geographic spread'.

UN News Centre [Online]. 8 March 2016. Available from:

<http://www.un.org/apps/news/story.asp?NewsID=53393> The head of the World Health Organization (WHO) today said the latest update on Zika virus is 'alarming,' with more cases expected in the coming months in a larger geographic area, and warned that modes of transmission now include sexual intercourse as well as mosquito bites.

UN confirms Sierra Leone's Ebola flare-up is over, but cautions more are possible.

UN News Centre [Online]. 17 March 2016. Available from:

<http://www.un.org/apps/news/story.asp?NewsID=53465> The latest flare-up of Ebola in Sierra Leone is over, the United Nations health agency today reported, but cautioned that the West African region remains at risk and should remain on alert.

New Ebola cases confirmed in Guinea as WHO warns of more possible flare ups.

World Health Organization (WHO) [Online]. 18 March 2016. Available from:

<http://www.who.int/csr/disease/ebola/new-ebola-cases-confirmed-guinea/en/>

WHO has dispatched a team of specialists to the southern prefecture of Nzérékoré after 2 new cases of Ebola were detected and confirmed in a rural village.

Zika: 'the more we know the worse things look,' UN health agency chief reports.

UN News Centre [Online]. 22 March 2016. Available from:

<http://www.un.org/apps/news/story.asp?NewsId=53521> The head of the United Nations health agency today reported that in less than a year, the status of Zika has changed from "a mild medical curiosity" to a disease with severe public health implications, warning that "the more we know the worse things look."

HEALTH AND SAFETY

Hearing loss in crew on the rise. *Marine Log* [Online]. 11 March 2016. Available from: http://www.marinelog.com/index.php?option=com_k2&view=item&id=10695:hearing-loss-in-crew-on-the-rise A 10-year pre-employment medical (PEME) study has found a dramatic increase in the incidence of hearing defects as the main reason for crew failing their pre-employment medical checks.

Infectious illness reported on Norwegian Gem. Passengers and Crew not allowed to Disembark in the interests of Public Health. *Daily Herald (St Maarten)* [Online]. 18 March 2016. Available from: <https://goo.gl/UkK7fb> The vessel was boarded outside Port St. Maarten and was boarded by a Port Control Team that also included officials from the Ministry of Public Health and the Shipping & Maritime Authority, to gather further information with respect to the on-board virus.

Gard Alert: Zika virus – China port inspection requirements. *Gard* [Online]. 16 March 2016. Available from: <http://www.gard.no/web/updates/content/20939776/gard-alert-zika-virus-china-port-inspection-requirements> Following the publication of our Gard Alert "Zika virus – South Korea port inspection requirements" on 11 March 2016, we have been advised that China has strengthened its quarantine inspection requirements in an attempt to avoid introducing the Zika virus via seagoing vessels.

IMO

0.5% Global Sulfur Cap: ICS and INTERTANKO Push for October Decision on Implementation Date. *Ship & Bunker* [Online]. 1 March 2016. Available from: <http://shipandbunker.com/news/world/859616-05-global-sulfur-cap-ics-and-intertanko-push-for-october-decision-on-implementation-date> ICS and INTERTANKO have issued a call for the International Maritime Organization's (IMO's) Marine Environmental Protection Committee (MEPC) to agree in principle at its 69th session, that a final decision on a date for implementation of the a global 0.5 percent sulfur cap for shipping should be made at its 70th session.

BWM Convention – will logic prevail? *UK Chamber of Shipping* [Online]. 11 March 2016. Available from: <https://www.ukchamberofshipping.com/latest/blog-bwm-convention-will-logic-prevail/> As Belgium became the 48th signatory party this week, the Ballast Water Management Convention has now almost gained sufficient ratification to come into force, and will do so in 2017.

Maritime mandatory audit session begins. *The Peninsula (Qatar)* [Online]. 21 March 2016. Available from: <http://www.thepeninsulaqatar.com/news/qatar/375011/maritime-mandatory-audit-session-begins> Minister of Transport and Communications H E Jassim bin Saif Al Sulaiti yesterday inaugurated the International Maritime Organisation's (IMO) mandatory audit session.

LAW AND POLICY

MV Rena Resource Consent Decision. *Government of New Zealand Bay of Plenty Regional Council* [Online]. 26 February 2016. Available from: <http://www.boprc.govt.nz/news-centre/media-releases/media-releases-2016/february-2016/mv-rena-resource-consent-decision/Decision> 

Royal Caribbean faces two lawsuits over storm-battered cruise ship.

By Jonathan Stempel. *Reuters* [Online]. 25 February 2016. Available from:

<http://www.reuters.com/article/royalcaribbean-cruiseship-lawsuits-idUSL2N1641V2>

The lawsuits filed in the U.S. District Court in Miami claim that Royal Caribbean knew, or should have known, that a coastal storm carrying hurricane-force winds had been forecast before the ship set sail from Cape Liberty, New Jersey on Feb. 6 for a scheduled seven-night cruise to the Bahamas.

8 sailors jailed for polluting UAE seawaters. By Bassan Za'za'. *Gulf News* [Online].

28 February 2016. Available from: <http://gulfnews.com/news/uae/courts/8-sailors-jailed-for-polluting-uae-seawaters-1.1680836>

The eight Iranian sailors — two captains and six sailors — sailed into the UAE maritime borders without proper permission and dumped diesel in the seawaters in October.

EU steps up fight against wildlife trafficking. By Karmenu Vella, EU Commissioner for Environment, Maritime Affairs and Fisheries. *European Commission* [Online].

26 February 2016. Available from: http://ec.europa.eu/commission/2014-2019/vella/blog/eu-steps-fight-against-wildlife-trafficking_en

Shocking images have become sadly familiar: rhinos bleeding to death after being shot for their horns, sharks hunted for their fins, birds and reptiles smuggled across borders and kept in appalling conditions.

HC refuses to suspend sentence on anti-piracy ship crew. By Mohamed Imranullah.

The Hindu (India) [Online]. 1 March 2016. Available from:

<http://www.thehindu.com/news/cities/Madurai/hc-refuses-to-suspend-sentence-on-antipiracy-ship-crew/article8297539.ece>

The Madras High Court Bench here on Monday refused to suspend the five-year sentence imposed by a trial court on six British nationals, 14 Estonians, three Ukrainians and 12 Indians who were onboard the U.S. anti-piracy vessel *MV Seaman Guard Ohio* detained by Coast Guard on October 12, 2013 for entering Indian territorial waters illegally with a huge cache of arms and ammunition.

India firearms charge ex-soldiers denied bail. *BBC News* [Online]. 1 March 2016.

Available from: <http://www.bbc.co.uk/news/uk-england-35694180> Six former British soldiers jailed in India for alleged firearms offences have been refused bail ahead of an appeal against their sentences.

Shell being sued in two claims over oil spills in Nigeria. By Howard Mustoe. *BBC News* [Online]. 2 March 2016. Available from: <http://www.bbc.co.uk/news/business-35701607>

Oil giant Shell is being sued in London for the second time in five years over spills in the Niger Delta.

New legislation to enable world-leading provincial spills regime.

Government of British Columbia (Canada) [Online]. 29 February 2016. Available from:

<https://news.gov.bc.ca/releases/2016ENV0008-000302>

Amendments to the Environmental Management Act (EMA), introduced today will, if passed, provide the legal foundation to establish a new, world-leading spill preparedness and response regime to address environmental emergencies in B.C.

Sulfur bunker cap uncertainties hinder shipping, refiner decisions: executive.

By Jelena Grigorjeva. *Bunkerworld* [Online]. 3 March 2016. Available from:

<http://www.bunkerworld.com/news/Sulfur-bunker-cap-uncertainties-hinder-shipping-refiner-decisions-executive-140976>

The shipping industry and refiners don't have enough time to prepare for implementation of a stricter global fuel oil sulfur cap if implemented in 2020, Joshua Low, global head of Maersk Oil Trading said Thursday.

Philippines to board N. Korea-linked ship as sanctions trade ban looms. By Keith Wallis.

Reuters [Online]. 3 March 2016. Available from: <http://uk.reuters.com/article/northkorea-nuclear-ships-idUKL3N16A30E>

The Philippines Coast Guard will carry out a security and safety inspection on a North Korean freighter in one of the first such checks since the United Nations Security Council voted to impose harsh penalties against Pyongyang over its nuclear programme.

N. Korea fires six short-range projectiles into East Sea.

Yonhap News Agency (South Korea) [Online]. 3 March 2016. Available from:

<http://english.yonhapnews.co.kr/national/2016/03/03/28/0301000000AEN20160303005652315F.html>

North Korea fired six short-range projectiles into the East Sea on Thursday, apparently in anger over the United Nations' adoption of its harshest-ever resolution punishing Pyongyang for its recent nuclear and long-range rocket tests, officials said.

Alan Kurdi: Turkish court jails pair over Syrian toddler's death. *The Guardian* [Online].

4 March 2016. Available from: <http://www.theguardian.com/world/2016/mar/04/alan-kurdi-turkish-court-jails-pair-syrian-toddler-death-trafficking>

A court in Turkey has sentenced two Syrian smugglers to four years and two months in prison each following the death of toddler Alan Kurdi and four other people, according to Turkey's state-run news agency.

Wärtsilä internal audit reveals deviations in a limited number of fuel consumption tests of marine engines. *Wärtsilä Corporation* [Online].

7 March 2016. Available from:

<http://www.wartsila.com/media/news/07-03-2016-wartsila-internal-audit-reveals-deviations-in-a-limited-number-of-fuel-consumption-tests-of-marine-engines>

The investigation has brought forward deviations in certain fuel consumption measurement tests conducted for marine engines in Wärtsilä Delivery Centre Trieste in Italy before customer dispatches.

China to boost maritime presence in disputed sea zone. By Zhen Liu.

South China Morning Post [Online]. 5 March 2016. Available from:

<http://www.scmp.com/news/china/diplomacy-defence/article/1921323/china-boost-maritime-presence-disputed-sea-zone>

China is to strengthen its presence at sea to protect its territorial sovereignty and safeguard freedom of navigation in Chinese-administered waters, according to the draft of the government's five-year plan released yesterday

Shipper fined \$130K for violating clean air regulation.

California Environmental Protection Agency [Online]. 3 March 2016. Available from:

<http://www.arb.ca.gov/newsrel/newsrelease.php?id=795>

The California Air Resources Board has fined the China Navigation Co. Pte. Ltd. \$129,500 for failure to switch its engines over from heavy diesel "bunker" fuel to cleaner, low-sulfur fuel when close to the California coast, as required by state law.

Insight: South China Sea a test for three major powers. By Arif Havas Oegroseno.

Jakarta Post [Online]. 8 March 2016. Available from:

<http://www.thejakartapost.com/news/2016/03/08/insight-south-china-sea-a-test-three-major-powers.html>

Three powers with concerns in the region — the US, ASEAN and China — are now entangled in the South China Sea issue one way or another.

Barbados and St. Lucia negotiating maritime boundaries. *Caribbean360* [Online]. 7 March 2016. Available from: <http://www.caribbean360.com/news/barbados-st-lucia-negotiating-maritime-boundaries> The governments of Barbados and St. Lucia are proceeding with the negotiation and conclusion of an agreement that will establish a maritime boundary between the two states.

Arbitration concerning the "Enrica Lexie" incident between the Italian Republic and the Republic of India: Schedule and modalities. *Permanent Court of Arbitration* [Online]. 29 February 2016. Available from: <https://pca-cpa.org/wp-content/uploads/sites/175/2016/02/PCA-Press-Release-20160229.pdf> 

South China Sea and Freedom of Navigation. By Jonathan G. Odon. *The Diplomat* [Online]. 9 March 2016. Available from: <http://thediplomat.com/2016/03/south-china-sea-and-freedom-of-navigation/> The South China Sea has sparked a seemingly daily stream of statements from diplomats, military leaders, academic experts, and media commentators.

Shipowners financially liable for a cyber-attack: legal expert. By Charlie Bartlett. *Seatrade Maritime News* [Online]. 10 March 2016. Available from: <http://www.seatrade-maritime.com/news/americas/shipowners-financially-liable-for-a-cyber-attack-legal-expert.html> Shipping companies leaving themselves vulnerable to cyber-attack also risk massive financial liability for damage to other businesses, warns executive director of the Institute for Cyber Security Innovation Robert Carolina.

Maritime border dispute with Australia a 'second fight for independence' for Timor-Leste. By Samantha Yap. *Channel News Asia* [Online]. 9 March 2016. Available from: <http://www.channelnewsasia.com/news/asiapacific/maritime-border-dispute/2586896.html> Campaigners in Timor-Leste say the maritime boundary dispute with Australia infringes on the country's sovereignty and its economy.

8 men sentenced to 3 years in jail for enslaving fishermen. By Daniel Leonard. *Jakarta Post* [Online]. 11 March 2016. Available from: <http://www.thejakartapost.com/news/2016/03/11/8-men-sentenced-3-years-jail-enslaving-fishermen.html> Five Thai fishing boat captains and three Indonesians were sentenced Thursday to three years in jail for human trafficking in connection with slavery in the seafood industry.

Amid sea disputes, China to set up maritime 'judicial centre'. By Ben Blanchard. *Reuters* [Online]. 14 March 2016. Available from: <http://uk.reuters.com/article/uk-china-parliament-court-idUKKCN0WF05P> China plans to set up an "international maritime judicial centre" to help protect the country's sovereignty and rights at sea, its top judge said on Sunday.

Inuit Circumpolar Council Salutes the Canada-USA Statement on Arctic Cooperation. *Arctic Journal* [Online]. 12 March 2016. Available from: <http://arcticjournal.com/press-releases/2210/inuit-circumpolar-council-salutes-canada-usa-statement-arctic-cooperation> In particular, ICC appreciates the attention given to issues related to climate change, renewable energy needs, shipping safety and impacts, Arctic fisheries, Indigenous Knowledge, the importance of Indigenous Peoples of the Arctic and the need for knowledge based decision-making.

Ireland to use IMO sulfur verification procedure on ship samples. By Unni Einemo. *Bunkerworld* [Online]. 11 March 2016. Available from: <http://www.bunkerworld.com/news/141059> Ireland will send fuel samples from 30 ships for sulfur analysis in 2016 in accordance with new European Union requirements for inspection levels in member states, a state official has told Platts.

Declaration by the High Representative on behalf of the EU on Recent Developments in the South China Sea. *Council of the European Union* [Online]. 11 March 2016. Available from: <http://www.consilium.europa.eu/en/press/press-releases/2016/03/11-hr-declaration-on-behalf-of-eu-recent-developments-south-china-sea/> The EU is committed to maintaining a legal order for the seas and oceans based upon the principles of international law, as reflected notably in the United Nations Convention on the Law of the Sea (UNCLOS).

Shipping companies charged with dumping wastewater. *Seattle Times* [Online]. 10 March 2016. Available from: <http://www.seattletimes.com/seattle-news/environment/shipping-companies-charged-with-dumping-wastewater-in-seattle/> Two shipping companies and two engineers were indicted on charges of dumping oily wastewater from a cargo ship heading to Seattle and concealing it from the U.S. Coast Guard.

RI sinks infamous fishing vessel. By Hans Nicholas Jong. *Jakarta Post* [Online]. 15 March 2016. Available from: <http://www.thejakartapost.com/news/2016/03/15/ri-sinks-infamous-fishing-vessel.html> The Navy and the Maritime Affairs and Fisheries Ministry sank on Monday the notorious *FV Viking*, an Interpol most-wanted Antarctic toothfish fishing vessel and the last of the "Bandit 6" poachers, in the waters off Pangandaran Beach, West Java.

Chief Engineer MARPOL conviction overturned by Fifth Circuit Court Of Appeals. *Hellenic Shipping News* [Online]. 16 March 2016. Available from: <http://www.hellenicshippingnews.com/chief-engineer-marpol-conviction-overturned-by-fifth-circuit-court-of-appeals/> On March 14, 2016, the Fifth Circuit Court of Appeals entered an Opinion in United States of America v. Matthaios Fafalios, 15-30146, vacating the judgment of conviction against the chief engineer of the *TRIDENT NAVIGATOR* and remanding the matter to the District Court for the Eastern District of Louisiana for entry of a judgment of acquittal in accordance with Fed. R. Crim. P. 29. [Chief engineer MARPOL conviction overturned](#)

Ireland: Suppliers, ships liable to fines up to Eur12.7 million for breach of MARPOL Annex VI. By Unni Einemo. *Bunkerworld* [Online]. 15 March 2016. Available from: <http://www.bunkerworld.com/news/141084> Ireland has penalty systems in place that could see bunker suppliers and ships breaching MARPOL Annex VI sulfur regulations face fines up to Eur12.7 million, while penalties for breach of EU sulfur regulations range from Eur 5,000 to Eur 300,000.

German Shipping Companies Sentenced to Pay \$1.5 Million for Illegally Discharging Oil into the Ocean. *US Department of Justice* [Online]. 15 March 2016. Available from: <https://www.justice.gov/opa/pr/german-shipping-companies-sentenced-pay-15-million-illegally-discharging-oil-ocean> The German shipping companies Briesse Schifffahrts GmbH & Co. KG and Briesse Schifffahrts GmbH & Co. KG MS "Extum," who owned and operated the cargo ship *M/V BBC Magellan*, pleaded guilty today to failure to maintain an accurate oil record book, in violation of the Act to Prevent Pollution from Ships.

Croatia, Slovenia Continue Territorial Waters Dispute. By Sven Milekic. *Balkan Insight* [Online]. 15 March 2016. Available from: <http://www.balkaninsight.com/en/article/croatia-slovenia-continue-dispute-over-territorial-waters-03-14-2016> Representatives of Croatia and Slovenia will meet again at the Permanent Court of Arbitration, PCA, in The Hague on Thursday to try and resolve their issues over maritime borders in the Piran Gulf, off the two neighbouring countries' coasts – a dispute that dates back to the break-up of Yugoslavia.

Spanish operation nets suspects behind illegal fishing. *INTERPOL* [Online].

18 March 2016. Available from: <http://www.interpol.int/News-and-media/News/2016/N2016-030>

An investigation by Spanish authorities into a network of companies and individuals linked to a fleet of illegal fishing vessels active in the Antarctic has resulted in six arrests and a further 13 people placed under investigation.

Judgement : Alleged violations of sovereign rights and maritime spaces in the Caribbean Sea (Nicaragua v. Colombia) : Preliminary Objections. *International Court of Justice* [Online].

17 March 2016. Available from: <http://www.icj-cij.org/docket/files/155/18948.pdf>  [Latest developments in the case](#)

Judgement: Question of the delimitation of the Continental Shelf between Nicaragua and Colombia beyond 200 nautical miles from the Nicaraguan coast (Nicaragua v. Colombia) : Preliminary Objections. *International Court of Justice* [Online]. 17 March 2016. Available from: <http://www.icj-cij.org/docket/files/154/18956.pdf> 

Indonesia to summon China ambassador over fishing boat incident. By Agustinus Beo da Costa and Ben Blanchard. *Reuters* [Online]. 20 March 2016. Available from:

<http://www.reuters.com/article/us-indonesia-southchinasea-idUSKCN0WM0AY> Indonesia will summon China's ambassador over an incident involving a Chinese fishing vessel in the Natuna Sea, a minister said on Sunday, as Beijing accused it of attacking the ship in traditional Chinese fishing grounds.

Australia illegally occupying maritime territory of Timor-Leste, protesters say.

By Helen Davidson. *The Guardian* [Online]. 22 March 2016. Available from:

<http://www.theguardian.com/world/2016/mar/22/australia-illegally-occupying-maritime-territory-of-timor-leste-protesters-say> Thousands of demonstrators gathered outside the Australian embassy in Dili on Tuesday, accusing the Australian government of "illegally occupying" Timor Leste territory by refusing to renegotiate maritime boundaries over oil and gas reserves.

Recent developments in the *Prestige* Incident. *International Oil Pollution Compensation Funds (IOPC Funds)* [Online]. 21 March 2016. Available from:

<http://www.iopcfunds.org/news-events/detail/item/514/> The January 2016 Supreme Court judgment relating to the *Prestige* incident is now available. [Supreme Court Criminal Chamber: Judgement](#) 

Somali pirates face trial in France over deadly hijacking. *France 24* [Online].

29 March 2016. Available from: <http://www.france24.com/en/20160328-france-somali-pirates-face-trial-deadly-highjacking> Seven suspected Somali pirates accused of hijacking a French yacht, killing its owner and putting his wife through a hellish kidnapping ordeal, appeared in a Paris court on Tuesday.

Falkland Islands lie in Argentinian waters, UN commission rules. *The Guardian* [Online].

29 March 2016. Available from: <http://www.theguardian.com/uk-news/2016/mar/29/falkland-islands-argentina-waters-rules-un-commission> Argentina's government is celebrating a decision by a UN commission to expand its maritime territory in the South Atlantic Ocean by 35% to include the disputed Falkland islands and beyond.

MARINE TECHNOLOGY

Unmanned Vessels - At What Cost? By Dione Lee. *Maritime Executive* [Online].

2 March 2016. Available from: <http://maritime-executive.com/blog/unmanned-vessels-at-what-cost> The beginning of this year has seen action on two projects advancing the concept and design of unmanned vessels, but will the cost ultimately outweigh the benefits?

Flown out by drone. By Sam Cage. *Maersk* [Online]. 8 March 2016. Available from:

<http://www.maersk.com/en/hardware/2016/03/flown-out-by-drone> 📹 Drones could cut time and costs for deliveries and inspections across the Maersk Group - but they must be reliable and absolutely safe.

Firefighting robot to come for navy ships. By Ines Nastali. *Marine Professional / IMarEST* [Online]. 10 March 2016. Available from:

<http://www.imarest.org/themarineprofessional/item/2228-firefighting-robot-to-come-for-navy-ships> Development of software for humanoid robots that can fight fires aboard navy ships has taken a further step forward in the US.

Modelling the maths behind wave motion to aid sea rescues. *Leeds University* [Online].

18 March 2016. Available from:

<http://www.leeds.ac.uk/news/article/3846/modelling-the-maths-behind-wave-motion-to-aid-sea-rescues> A mathematical model developed at the University of Leeds could make it possible to design safer versions of the 'fast ships' used in many vital offshore operations.

Enhanced safety and efficiency with DNV GL's new survey reporting programme.

By Rachel Carmichael. *DNV GL* [Online]. 17 March 2016. Available from:

<https://www.dnvgl.com/news/enhanced-safety-and-efficiency-with-dnv-gl-s-new-survey-reporting-programme-59925> At the annual Seatrade Cruise Global 2016 conference in Ft. Lauderdale, Florida, classification society DNV GL introduced a new form of reporting that revolutionizes survey reporting for fleet managers.

Rolls-Royce reveals future shore control centre. *Rolls-Royce* [Online]. 22 March 2016.

Available from: <http://www.rolls-royce.com/media/press-releases/yr-2016/pr-2016-03-22-rr-reveals-future-shore-control-centre.aspx> Rolls-Royce today unveiled its vision of the land-based control centres that we believe will remotely monitor and control the unmanned ships of the future. [Video](#) 📹

GE, HHI and LR sign project to develop gas turbine powered, electrically driven, 14K container ship design. *Lloyd's Register* [Online]. 22 March 2016. Available from:

<http://www.lr.org/en/news/news/GE-HHI-and-LR-sign-project-to-develop-gas-turbine-powered-electrically-driven-14K-container-ship-design.aspx> The joint development project was signed on 15 March in Seoul by General Electric (GE), Hyundai Heavy Industries (HHI) and Lloyd's Register's (LR), and is the latest step in the development of gas turbine powered ship designs suitable for deep sea, commercial applications.

Scrubber Uptake Adding to Refiners' Uncertainty Over ECA Bunker Demand.

Ship & Bunker [Online]. 28 March 2016. Available from:

<http://shipandbunker.com/news/world/318316-scrubber-uptake-adding-to-refiners-uncertainty-over-eca-bunker-demand> Peter Hall, CEO of the International Bunker Industry Association (IBIA), says the uncertainty over how many vessels will adopt scrubber technology for their Emissions Control Area (ECA) compliance strategy is adding further complications for refiners trying to determine what quantity of different types of fuel will be required by marine when the eventual 0.5 percent global sulfur cap comes into force.

Lloyd's Register releases Guidance notes for inspection with UAS. *Lloyd's Register* [Online]. 22 March 2016. Available from: <http://www.lr.org/en/energy/news/lr-releases-guidance-notes-for-inspection-with-uas.aspx> New guidance approach supports industry in the safe and effective deployment of next generation drone and unmanned aircraft systems (UAS) technology that can significantly improve productivity gains through reducing risk exposure, survey times and in-service inspection costs of offshore, marine and onshore infrastructure.

MARITIME SAFETY

UL Issues First 'Marine Use' Marking & Labeling Certification for Hazardous Chemicals. *UL (Underwriters Laboratories)* [Online]. 24 February 2016. Available from: <http://ul.com/newsroom/pressreleases/ul-issues-first-marine-use-marking-labeling-certification-for-hazardous-chemicals/> Label and label materials covered under this certification program are intended to be used to durably mark dangerous and hazardous goods (such as chemical containers or drums) for marine transport in international waters.

U.S., Cameroon work together to counter illicit trafficking, improve maritime safety. *By Bryan Peterson. United States Marine Corps* [Online]. 24 February 2016. Available from: <http://www.marines.mil/News/NewsDisplay/tabid/3258/Article/671978/us-cameroon-work-together-to-counter-illicit-traffic-improve-maritime-safety.aspx> U.S. Marines and sailors are working with Cameroon's Fusiliers Marins and Compagnie des Palmeurs de Combat to increase their capabilities to combat illicit activity and increase security in the waterways and borders of Cameroon.

Anthem of the Seas Cruise Cut Short to Avoid Storm. *By Mike Schuler. gCaptain* [Online]. 29 February 2016. Available from: <https://gcaptain.com/anthem-of-the-seas-cruise-cut-short-to-avoid-storm/> Royal Caribbean isn't taking any chances when it comes to weather following its nightmare cruise into a hurricane force storm earlier this month, cutting *Anthem of the Seas*' latest voyage short to avoid a storm off the mid-Atlantic seaboard.

On-load release hooks in lifeboats and rescue boats. *Gard* [Online]. 2 March 2016. Available from: <http://www.gard.no/web/updates/content/20929931/on-load-release-hooks-in-lifeboats-and-rescue-boats> While the replacement of non-compliant on-load release hooks in conventional lifeboats is now well underway, identical hooks fitted in rescue boats may go unnoticed as they are not subject to the same regulations.

The last breath. *By Michael Grey. Lloyd's List* [Online]. 7 March 2016. Available from: <https://www.lloydslist.com/ll/sector/ship-operations/article518106.ece> Deaths in enclosed spaces take a remorseless toll of human life in the shipping industry, so why isn't more being done to stop them?

Safety lessons: keeping a safe navigational watch. *UK Marine Accident Investigation Branch (MAIB)* [Online]. 9 March 2016. Available from: <https://www.gov.uk/government/publications/safety-lessons-keeping-a-safe-navigational-watch> This safety message concerns the collision between fishing vessels *Good Intent* and *Silver Dee*, resulting in the sinking of *Silver Dee* in the Irish Sea. [Good Intent \(SY79\) and Silver Dee \(B310\): Collision & Sinking](#) 

Safety lessons: hazards of recovering lost fishing gear.

UK Marine Accident Investigation Branch (MAIB) [Online]. 9 March 2016. Available from: <https://www.gov.uk/government/publications/safety-lessons-hazards-of-recovering-lost-fishing-gear> This safety message concerns the capsizing and sinking of twin-rig prawn trawler *Kairos* in rough seas 70 nautical miles west of the Isles of Scilly. [Kairos \(BF190\): Capsize and sinking on 18 May 2015](#) 

DNV GL, Gard and The Swedish Club work together to help reduce anchor losses.

By Simon David Adams. DNV GL [Online]. 8 March 2016. Available from: <https://www.dnvgl.com/news/dnv-gl-gard-and-the-swedish-club-work-together-to-help-reduce-anchor-losses-59097> The root cause of many groundings and collisions, lost anchors are among the top five reasons for claims costs. [Anchor Awareness](#) 

Nigeria committed to maritime safety standards – Amaechi. *The Nation (Nigeria)* [Online]. 9 March 2016. Available from: <http://thenationonline.net/nigeria-committed-to-maritime-safety-standards-amaechi/> The Minister of Transportation, Mr Rotimi Amaechi, has said that the nation is committed to safety standards in the maritime sector.

Interferry acts on ro-ro deck fire safety. *Hellenic Shipping News* [Online]. 11 March 2016. Available from: <http://www.hellenicshippingnews.com/interferry-acts-on-ro-ro-deck-fire-safety/> Trade association Interferry has produced operational best practice guidance for fire safety on ro-ro vehicle decks in response to a string of major incidents.

Preliminary Results of the CIC on Crew Familiarization for Enclosed Space Entry.

Tokyo MoU [Online]. 18 March 2016. Available from: <http://www.tokyo-mou.org/doc/Press%20Release%20CIC%20results%20-%20Enclosed%20space%20entry.pdf>  The Concentrated Inspection Campaign (CIC) on Crew Familiarization for Enclosed Space Entry was carried out between 1 September and 30 November 2015 in the Tokyo MOU region.

Marina must act for safer ROROs. By Rey Gamboa. *Philippine Star* [Online]. 22 March 2016. Available from: <http://www.philstar.com/business/2016/03/22/1565269/marina-must-act-safer-roros> A brand new passenger roll-on, roll-off (RORO) ship, the country's first highly modernized mid-sized vessel, is now in Manila.

Interview with Capt. Andrew Kinsey on the findings of Allianz's Annual Review.

Safety 4 Sea [Online]. 28 March 2016. Available from: <http://www.safety4sea.com/interview-with-capt-andrew-kinsey-on-the-findings-of-allianzs-annual-review/> Safety4Sea Team asked Capt. Andrew Kinsey, Senior Marine Risk Consultant, Allianz Global Corporate & Specialty few questions regarding the findings of the "Safety & Shipping Review 2016" published by Allianz.

MARITIME SECURITY

China to expand maritime rescue mission amid build-up in the South China Sea: analysts. By Teddy Ng and Stephen Chen. *South China Morning Post* [Online].

29 February 2016. Available from: <http://www.scmp.com/news/china/diplomacy-defence/article/1918440/china-expand-maritime-rescue-mission-amid-build-south>

After land reclamation was complete, the focus would turn to building the facilities, which would cater to vessels of various sizes and functions, they said.

Extension of MOU between Indian Coast Guard and Pakistan Maritime Security Agency.

Government of India [Online]. 26 February 2016. Available from: <http://www.mea.gov.in/press-releases.htm?dtl/26426/> The MOU between Indian Coast Guard (ICG) and Pakistan Maritime Security Agency (PMSA) has been extended by mutual consent through diplomatic channels for the period of further five years from 17 March 2016.

'Fast, clean and easy': Pirates hack shipping line to track and seize valuable cargo.

By Sam Chambers. *Splash 24/7* [Online]. 2 March 2016. Available from:

<http://splash247.com/fast-clean-and-easy-pirates-hack-shipping-line-to-track-and-seize-valuable-cargo/>

Pirates are using information technology to target ships and specific cargoes, a new report from Verizon has revealed.

Philippine officials say China blocked access to disputed South China Sea atoll.

By Manuel Mogato. *Reuters* [Online]. 2 March 2016. Available from:

<http://www.reuters.com/article/us-southchinasea-china-philippines-idUSKCN0W402A>

China sent several ships to a disputed atoll in the South China Sea, preventing Filipino fishermen from accessing traditional fishing grounds and raising tensions in the volatile region, Philippine officials said on Wednesday.

BIMCO: Security Breach in Anti-Piracy Program. *Maritime Executive* [Online]. 1 March 2016.

Available from: <http://maritime-executive.com/article/bimco-warns-of-security-breach-in-anti-piracy-program>

On Monday, BIMCO and The Standard Club issued a warning regarding an alleged security breach in the Maritime Trade Information Sharing Center, Gulf of Guinea (MTISC-GoG), potentially resulting in the release of ships' data to pirates.

US Coast Guard conducts assessment of Port security. *Daily Herald (St Maarten)* [Online].

7 March 2016. Available from: <https://thedailyherald.sx/islands/55923-us-coast-guard-conducts-assessment-of-port-security>

St. Maarten underwent another Bi-annual Country Assessment over the course of three days, from February 22 to 25.

Royal Navy Warship rescues sailors from sinking vessel. *Combined Maritime Forces*

[Online]. 6 March 2016. Available from: <https://combinedmaritimeforces.com/2016/03/06/royal-navy-warship-rescues-sailors-from-sinking-vessel/>

HMS St Albans was recently called upon to assist a stricken Dhow whilst conducting maritime security operations in the Gulf of Oman.

HMAS Darwin seizes large weapons cache. *Combined Maritime Forces* [Online].

6 March 2016. Available from: <https://combinedmaritimeforces.com/2016/03/06/hmas-darwin-seizes-large-weapons-cache/>

Operating as part of Combined Task Force 150 (CTF150), Australian ship *HMAS Darwin* has uncovered and seized a large weapons cache following the boarding of a small fishing style vessel in the Middle East.

Over a Ton of Cocaine Seized, 7 Arrested aboard Ro-Ro Vessel. *World Maritime News* [Online]. 9 March 2016. Available from: <http://worldmaritimeneeds.com/archives/185105/over-a-ton-of-cocaine-seized-7-arrested-aboard-ro-ro-vessel/> Some 1,200 kilograms of cocaine were seized and seven people were arrested aboard a Ro-Ro cargo vessel *Oceanic 1* in the morning hours of March 5 while the vessel was in the Caribbean Sea off Aruba, according to the Dutch coast guard.

Crimes at Sea Focus of New Indonesian Research, Maritime Security Forum Told. *International Organization for Migration (IOM)* [Online]. 11 March 2016. Available from: <http://www.iom.int/news/crimes-sea-focus-new-indonesian-research-maritime-security-forum-told> Research into human trafficking in the fisheries sector in Indonesia is revealing troubling new details about the numbers of men who have died at sea, an IOM-sponsored maritime security focus group discussion was told this week in Jakarta, Indonesia.

The cyber-ship needs a shift in seafarer competencies, says LR. By Charlie Bartlett. *Seatrade Maritime News* [Online]. 11 March 2016. Available from: <http://www.seatrade-maritime.com/news/europe/the-cyber-ship-needs-a-shift-in-seafarer-competencies-says-lr.html> Cyber-attacks "can happen now", and shipping has a steep hill to climb when it comes to increasing technical competencies amongst seafarers, says Lloyd's Register's (LR) Luis Benito.

Maritime Security: 30 National Navies Converge on Gulf of Guinea for Major Exercise. By Senator Iroegbu. *This Day (Nigeria)* [Online]. 14 March 2016. Available from: <http://www.thisdaylive.com/index.php/2016/03/14/maritime-security-30-national-navies-converge-on-gulf-of-guinea-for-major-exercise/> The ships from 30 national navies will converge in the Gulf of Guinea today to conduct a week-long major naval exercise code named 'Exercise Obangame 2016'.

Maritime Security: Induction of ten Fast Interceptor Boats. *Government of Mauritius* [Online]. 14 March 2016. Available from: <http://www.govmu.org/English/News/Pages/Maritime-Security-Induction-of-ten-Fast-Interceptor-Boats.aspx> A safe and secure maritime environment is a prerequisite for the achievement of a Second Economic Miracle and to meet the pledges in the Vision 2030 of the Government, said the Prime Minister, Sir Anerood Jugnauth, on Saturday 12 March 2016.

Argentina coast guard sinks Chinese trawler fishing illegally. By Juliana Castilla and Richard Lough. *Reuters* [Online]. 16 March 2016. Available from: <http://uk.reuters.com/article/uk-argentina-defense-china-idUKKCN0WH2PL> Argentina's coast guard has sunk a Chinese trawler that was fishing illegally within its territorial waters, the coast guard said on Tuesday, marking a first test for relations between President Mauricio Macri and Beijing.

Captura de Buque Chino = Capture of the Chinese ship. *Prefectura Naval Argentina* [Online]. 15 March 2016. Available from: <https://www.youtube.com/watch?v=QjW3Eyc7Fog> 

Nigeria and Equatorial Guinea sign maritime security agreement. By Felix Onuah. *Reuters* [Online]. 16 March 2016. Available from: <http://uk.reuters.com/article/uk-nigeria-security-idUKKCN0W1ZP> Nigeria and Equatorial Guinea signed an agreement to establish combined patrols to bolster security in the Gulf of Guinea, which has been plagued by piracy in the last few years, a spokesman for Nigeria's president said on Wednesday.

Exclusive: U.S. sees new Chinese activity around South China Sea shoal.

By David Brunnstrom and Andrea Shalal. *Reuters* [Online]. 18 March 2016. Available from: <http://www.reuters.com/article/us-southchinasea-china-scarborough-exclu-idUSKCN0WK01B>

The United States has seen Chinese activity around a reef China seized from the Philippines nearly four years ago that could be a precursor to more land reclamation in the disputed South China Sea, the U.S. Navy chief said on Thursday.

U.S. Coast Guard, Republic of Philippines partner to improve port security.

US Coast Guard Newsroom [Online]. 17 March 2016. Available from:

<http://www.uscgnews.com/go/doc/4007/2798910/> A U.S. Coast Guard International Port Security team in cooperation with the Philippine Office for Transportation Security completed two weeks of port facility security seminars in February.

U.N. lifts North Korea sanctions on four ships at China's request. By Michelle Nichols,

Louis Charbonneau, and James Pearson. *Reuters* [Online]. 22 March 2016. Available from: <http://www.reuters.com/article/us-northkorea-sanctions-china-usa-exclus-idUSKCN0WN287> 

The U.N. Security Council agreed on Monday to a Chinese request to remove sanctions on four ships the United Nations had blacklisted for ties to Pyongyang's arms trade.

Cyber Security Roundtable Identifies Key Issues of Concern to Maritime Industry.

KVH Industries [Online]. 22 March 2016. Available from: <http://www.kvh.com/Press-Room/Press-Release-Library/2016/032216-Cyber-Security-Roundtable.aspx> Among the key issues identified were complacency by ship operators, lack of training for crew, non-existent contingency plans for dealing with a cyber attack, and the need for a set of best practices for minimizing risks.

Coast Guard guardsmen seize more than 6 tons of cocaine. *US Coast Guard Newsroom*

[Online]. 28 March 2016. Available from: <http://www.uscgnews.com/go/doc/4007/2803353/> 

Coast Guardsmen seized more than 12,800 pounds of cocaine and apprehended four suspected drug smugglers from a self-propelled semisubmersible, or SPSS, about 300 miles southwest of Panama March 3.

French Ship *Provence* Seizes Large Weapons Cache. *Combined Maritime Forces* [Online].

28 March 2016. Available from: <https://combinedmaritimeforces.com/2016/03/28/french-ship-provence-seizes-large-weapons-cache/> The French FREMM destroyer *FS Provence* discovered and seized a large weapons cache following the boarding of a dhow in the Northern Indian Ocean.

MARITIME TRAINING

44 Candidates receive Certificate in Basic Safety Training and Continuous Discharge.

Government of Mauritius [Online]. 23 February 2016. Available from:

<http://www.govmu.org/English/News/Pages/44-Candidates-receive-Certificate-in-Basic-Safety-Training-and-Continuous-Discharge.aspx> A total of 44 persons received their certificate in Basic Safety Training and Continuous Discharge during a ceremony held today at the Mauritius Maritime Training Academy in Pointe aux Sables.

Shipping podcast: spotlight on skills. By Jonathan Roberts. *UK Chamber of Shipping*

[Online]. 2 March 2016. Available from: <https://www.ukchamberofshipping.com/latest/shipping-podcast-spotlight-skills/> 

Joining Jonathan in the studio are the Head of the Merchant Navy Training Board, Glenys Jackson and Allan Graveson, Senior National Secretary of trade union Nautilus International.

MARINA tie up to offer maritime program in Senior High School.

Philippine Information Agency [Online]. 9 March 2016. Available from: <http://news.pia.gov.ph/article/view/3001457421819/dep-ed-marina-tie-up-to-offer-maritime-program-in-senior-high-school>. The Department of Education (DepEd) and the Maritime Industry Authority (MARINA) signed a Memorandum of Agreement (MOA) that will provide Senior High School (SHS) students with the education and training to qualify for further studies and/or career opportunities in the maritime industry upon graduation from SHS.

Grand opening of fourth campus unveils technologically advanced maritime training.

By Jeannie Peng-Armao. *San Jacinto College (USA)* [Online]. 8 March 2016. Available from: <http://www.sanjac.edu/node/4549236> With the cut of a ribbon and ring of a bell, San Jacinto College marked the grand opening of the new Maritime Technology and Training Center on the Maritime Campus on March 8, 2016.

Kenya needs modern ship to boost maritime training. By Andrew Mwangura.

Business Daily (Kenya) [Online]. 8 March 2016. Available from: <http://www.businessdailyafrica.com/Kenya-needs-modern-ship-to-boost-maritime-training/-/1248928/3108752/-/12nh588z/-/index.html> Sea training has been undertaken in Kenya since the establishment of the Mombasa Institute of Muslim Education, now the Technical University of Mombasa (TUM), in 1951.

Gas crewing conundrum. Splash 24/7 [Online]. 10 March 2016. Available from:

<http://splash247.com/gas-crewing-conundrum/> As the world anticipates the gradual recovery of the maritime industry in the coming years, a strong, cohesive and well-trained crew will be the backbone of ships that ply the world's oceans.

IMarEST: Seafarer career development campaign. Splash 24/7 [Online]. 10 March 2016.

Available from: <http://splash247.com/imarest-seafarer-career-development-campaign/> The Institute of Marine Engineering, Science and Technology (IMarEST) has recently launched a campaign to specifically support seafarers with their career development, working in partnership with various organisations to achieve shared goals in advancing progress within the marine sector and inspiring more young people to join the industry.

Maritime Sector Launching of Sensitisation Campaign in Secondary Schools.

Government of Mauritius [Online]. 15 March 2016. Available from: <http://www.govmu.org/English/News/Pages/Maritime-Sector-Launching-of-Sensitisation-Campaign-in-Secondary-Schools.aspx> A sensitisation campaign aiming at informing secondary school students about the career prospects related to the maritime sector was launched yesterday at the Mahatma Gandhi Institute in Moka.

Viking Supply Ships develops the first Polar Code Course. Viking Supply Ships [Online].

15 March 2016. Available from: <http://www.vikingsupply.com/newsarticle/viking-supply-ships-develops-the-first-polar-code-course%5B%5Bexternal%5D%5D/2142758> During week 9 the first test courses, named Polar Code Course, Basic and Advanced, was completed in cooperation with the Linnæus University in Kalmar.

'Cyber-ships' need cyber-compatible crew. By Ines Nastali. Marine Professional / IMarEST

[Online]. 15 March 2016. Available from: <http://www.imarest.org/themarineprofessional/item/2240-cyber-ships-need-cyber-compatible-crew> Ships' crew need to become more familiar and competent using the software and digital technology installed on their vessel, Luis Benito, marine marketing director at Lloyd's Register (LR) stressed at a press briefing held in London last week.

Experts Advocate Maritime Training Centre. By John Iwori. *This Day (Nigeria)* [Online]. 20 March 2016. Available from: <http://www.thisdaylive.com/index.php/2016/03/20/experts-advocate-maritime-training-centre/> The academic standard at the Matral Maritime Training Centre (MMTC), Calabar, Cross River State has received a boost with some maritime experts expressing support for its effective running in the years ahead.

Spinnaker Global and IMarEST to support maritime engineers in Asia Pacific. *Institute of Marine Engineering, Science and Technology (IMarEST)* [Online]. 23 March 2016. Available from: <http://www.imarest.org/policy-news/newsroom-press/item/2254-spinnaker-global-and-imarest-to-support-maritime-engineers-in-asia-pacific> The partnership will see Spinnaker Global candidates able to obtain a 12-month trial membership to the IMarEST, enabling them to work towards a professional qualification, such as becoming Chartered, to support their professional development and demonstrate international credibility.

IMLA-IAMU Joint Meeting for the Revision of IMO Model Course Held in Shanghai. *Shanghai Maritime University* [Online]. 28 March 2016. Available from: http://en.shmtu.edu.cn/controller.asp?action=detail_en&tid=0060&id=1603280001 The meeting was organized by IMLA Shanghai Office and Shanghai Maritime University (SMU).

MIGRANTS

Med Rescue Ship To Help Rohingya Migrants. By Tom Rayner. *Sky News* [Online]. 26 February 2016. Available from: <http://news.sky.com/story/1649107/med-rescue-ship-to-help-rohingya-migrants> 📺 A migrant rescue ship used to save thousands of lives in the Mediterranean is about to embark on a challenging new mission in South East Asia.

EUROPOL and INTERPOL take steps against organised crime behind migrant smuggling. *EUROPOL* [Online]. 23 February 2016. Available from: <https://www.europol.europa.eu/content/europol-and-interpol-take-steps-against-organised-crime-behind-migrant-smuggling> 📺 The 2nd Europol and INTERPOL Operational Forum on Countering Migrant Smuggling Networks, held at Europol's headquarters in The Hague on 22 and 23 February, outlined important measures against the organised criminal networks behind people smuggling.

Migrant smuggling in the EU. *EUROPOL* [Online]. February 2016. Available from: https://www.europol.europa.eu/sites/default/files/publications/migrant_smuggling_europol_report_2016.pdf 📄 Europe has seen an unprecedented increase in the number of irregular migrants arriving in the European Union since 2014.

Mediterranean Migrant, Refugee Arrivals in Europe Top 120,000. *International Organization for Migration (IOM)* [Online]. 26 February 2016. Available from: <https://www.iom.int/news/mediterranean-migrant-refugee-arrivals-europe-top-120000> Migrant and refugee arrivals in Greece and Italy have exceeded 120,000 in 2016, having reached the 100,000 milestone earlier this week, almost four months earlier than in 2015.

MSF migration activities in Europe, February 2016 - interactive map. *Médecins Sans Frontières (MSF)* [Online]. 26 February 2016. Available from: <http://www.msf.org/article/msf-migration-activities-europe-february-2016-interactive-map> Every year, thousands of people fleeing violence, insecurity or persecution at home attempt a treacherous journey across the Mediterranean Sea to reach Europe.

Europe/Mediterranean Migration Response - Situation Report. *International Organization for Migration (IOM)* [Online]. 25 February 2016. Available from:

https://www.iom.int/sites/default/files/situation_reports/file/europe-mediterranean-migration-response-sitrep-25-feb-2016.pdf  As of 24 February 2016, 121,051 migrants and refugees

have arrived to Europe by land and sea routes since the start of 2016. The vast majority of this number arrived by sea to Greece (111,099) and by Italy (8,592).

Profiting from misery - how smugglers bring people to Europe. *Frontex* [Online].

18 February 2016. Available from: <http://frontex.europa.eu/feature-stories/profitting-from-misery-how-smugglers-bring-people-to-europe-iQtYUH> With more than a million migrants

arriving on the Greek and Italian shores last year, it is estimated that people smuggling networks made more than 4 billion Euros from their criminal activities. [Video](#) 

UNHCR warns of imminent humanitarian crisis in Greece amid disarray in Europe over asylum. *United Nations High Commissioner for Refugees (UNHCR)* [Online]. 1 March 2016.

Available from: <http://www.unhcr.org/56d564ed6.html> UNHCR is warning today that Europe is on the cusp of a largely self-induced humanitarian crisis.

A Euroseas Ltd. Container Vessel Rescues 105 Migrants / Refugees. *Euroseas Ltd.*

[Online]. 26 February 2016. Available from:

http://www.euroseas.gr/press_releases.html?irp=pr2&reid=584915 The *M/V Vento di Grecale* received a distress call from Malta's Marine Response Coordination Center ("MRCC Malta"), while sailing South West of Crete en route to Salerno, Italy.

Commission proposes new Emergency Assistance instrument for faster crisis response within the EU. *European Commission* [Online]. 2 March 2016. Available from:

http://europa.eu/rapid/press-release_IP-16-482_en.htm Today the European Commission has proposed an Emergency Assistance instrument to be used within the European Union to provide a faster, more targeted response to major crises, including helping Member States cope with large numbers of refugees.

Mediterranean Migrant Arrivals in 2016 Near 130,000; Deaths Reach 418.

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

<http://www.iom.int/news/mediterranean-migrant-arrivals-2016-near-130000-deaths-reach-418>

As winter nears its end, IOM estimates irregular migrant and refugee arrivals are now approaching 130,000 in the Mediterranean.

UNHCR sets out detailed plan to solve refugee situation in Europe.

United Nations High Commissioner for Refugees (UNHCR) [Online]. 4 March 2016.

Available from: <http://www.unhcr.org/56d977086.html> Warning Europe was running out of time to solve the current refugee situation, the UN refugee chief today outlined a detailed six-point plan ahead of a key meeting of European Union leaders and Turkey in Brussels next week.

The challenges of preventing migrant deaths in the Aegean Sea. *Euronews* [Online].

3 March 2016. Available from: <http://www.euronews.com/2016/03/03/the-challenges-of-preventing-migrant-deaths-in-the-aegean-sea/> 

Each day since the start of the year around 2,000 migrants have arrived on the Greek coast.

PM announces UK deployment for NATO mission in Aegean Sea to tackle migrant crisis.

UK Government [Online]. 7 March 2016. Available from:

<https://www.gov.uk/government/news/pm-announces-uk-deployment-for-nato-mission-in-aegean-sea-to-tackle-migrant-crisis>

As the Prime Minister attends an EU summit on the migration crisis, the Royal Navy is deploying amphibious landing ship royal fleet auxiliary (*RFA*) *Mounts Bay* alongside 2 border force cutters to join the NATO mission in the Aegean Sea that aims to reduce the flow of migrants from Turkey to Europe.

EU maritime agency gets ready to use drones to monitor refugee boats.

By Catherine Stupp. *EurActiv* [Online]. 7 March 2016. Available from:

<http://www.euractiv.com/section/justice-home-affairs/news/eu-maritime-agency-gets-ready-to-use-drones-to-monitor-refugee-boats/>

The director of the EU maritime safety agency said civil drones are most needed to monitor hotspots and detect refugees arriving to Europe by boat.

Many killed in latest migrant boat sinking. By Danny Savage. *BBC News* [Online].

6 March 2016. Available from: <http://www.bbc.co.uk/news/world-europe-35740919>

At least 25 people have died after a boat carrying migrants capsized while crossing from Turkey to Greece.

NATO Secretary General welcomes expansion of NATO deployment in the Aegean Sea.

North Atlantic Treaty Organization (NATO) [Online]. 6 March 2016. Available from:

http://www.nato.int/cps/en/natohq/news_128833.htm NATO took swift decisions to deploy ships to the Aegean Sea to support our Allies Greece and Turkey, as well as the EU's border agency FRONTEX, in their efforts to tackle the migrant and refugee crisis.

UN refugee chief presents detailed plan to solve crisis in Europe, warning time is 'running out'. *UN News Centre* [Online]. 4 March 2016. Available from:

<http://www.un.org/apps/news/story.asp?NewsId=53366> Warning Europe is running out of time to solve the current refugee situation, the UN refugee chief today outlined a detailed six-point plan ahead of a key meeting of European Union leaders and Turkey in Brussels next week.

Mediterranean Migrant Arrivals in 2016: 141,141; Deaths: 444.

International Organization for Migration (IOM) [Online]. 8 March 2016. Available from:

<http://www.iom.int/news/mediterranean-migrant-arrivals-2016-141141-deaths-444> Migrants and refugees are continuing to arrive on the Greek islands from Turkey, according to IOM, despite the presence of NATO vessels newly deployed to thwart smugglers.

Remarks by President Donald Tusk after the meeting of the EU heads of state or government with Turkey. *Council of the European Union* [Online]. 7 March 2016.

Available from: <http://www.consilium.europa.eu/en/press/press-releases/2016/03/07-tusk-remarks-eu-turkey-meeting/>

We agreed that despite good implementation of the Joint Action Plan on migration, the flow of migrants passing from Turkey to Greece remains much too high and needs to be brought down significantly.

UNHCR's reaction to Statement of the EU Heads of State and Government of Turkey,

7 March. *United Nations High Commissioner for Refugees (UNHCR)* [Online]. 8 March 2016.

Available from: <http://www.unhcr.org/56de9e176.html> UNHCR has taken note of the Statement of the EU Heads of State and Government of Turkey last night and we are concerned with some aspects of the proposal.

IOM, UNHCR and Partners Hold Workshop on Rescue of Refugees and Migrants in the Mediterranean.

International Organization for Migration (IOM) [Online]. 8 March 2016.

Available from: <http://www.iom.int/news/iom-unhcr-and-partners-hold-workshop-rescue-refugees-and-migrants-mediterranean>

IOM, UNHCR in coordination with the International Institute of Humanitarian Law (IIHL) are this week (7-9 March) holding a workshop on Rescue of Refugees and Migrants in the Mediterranean: Practitioners' Perspectives from on IIHL's premises in San Remo, Italy.

Ban marks UN's 20th year in Bonn, stresses need for 'shared responsibility' on migration.

UN News Centre [Online]. 8 March 2016. Available from:

<http://www.un.org/apps/news/story.asp?NewsID=53396> Continuing his visit to Germany, Secretary-General Ban Ki-moon today celebrated the 20th anniversary of the United Nations offices in Bonn, praising the work of the Organization's agencies based there, and discussed a range of issues with the country's leaders, including the challenges associated with mass migration.

Number of illegal border-crossing at record high in Q4.

Frontex [Online]. 10 March 2016.

Available from: <http://frontex.europa.eu/news/fran-quarterly-number-of-illegal-border-crossings-at-record-high-in-q4-tRfbnB> The number of detections of illegal border-crossings between border crossing points (BCPs) in the fourth quarter of 2015 reached 978 300, its highest level since data exchange under the Frontex Risk Analysis Network (FRAN) began in 2007.

Outcome Of Informal European Council Of 7 March 2016 And The Informal Meeting Of The EU Heads Of State Or Government With Turkey. By Ralf Drachenberg.

European Parliamentary Research Service [Online]. 10 March 2016. Available from:

<http://goo.gl/9TPH65> The informal European Council of 7 March 2016 focused on migration, assessing the state of implementation of previously agreed measures.

Five migrants, including baby, drown off Turkish coast.

Euronews [Online]. 10 March 2016.

Available from: <http://www.euronews.com/2016/03/10/five-migrants-including-baby-drown-off-turkish-coast/>

Those onboard the boat were said to be from Afghanistan and Iran.

Mediterranean Migrant Arrivals in 2016 Approach 150,000; Deaths Reach 455.

International Organization for Migration (IOM) [Online]. 11 March 2016. Available from:

<http://www.iom.int/news/mediterranean-migrant-arrivals-2016-approach-150000-deaths-reach-455> Through March 10, 2016, IOM reports arrivals of migrants and refugees to Italy and Greece via Mediterranean Sea routes have topped 150,000, while deaths in the region now stand at 455, including four deaths in January in the waters between Spain and North Africa, recorded by IOM's Missing Migrants Project.

Smugglers Prey on Migrants Desperate to Find Back Doors to Europe. By Liz Alderman.

New York Times [Online]. 11 March 2016. Available from:

<http://www.nytimes.com/2016/03/12/world/europe/european-union-migrant-crisis-smuggling.html>

Shortly after landing on the Greek island of Lesbos in a waterlogged dinghy from Turkey, Rahin Salami, an Afghan hoping to reach Germany, boarded a ferry for the port of Piraeus, near Athens.

Coast Guard repatriates 16 Cuban migrants.

US Coast Guard Newsroom [Online].

13 March 2016. Available from: <http://www.uscgnews.com/go/doc/4007/2797874/>

These repatriations are a result of two separate migrant interdictions at sea in the south Florida Straits.

Six Principles for further developing EU-Turkey Cooperation in tackling the Migration Crisis. *European Commission* [Online]. 16 March 2016. Available from:

http://europa.eu/rapid/press-release_IP-16-830_en.htm The President of the European Council was tasked with taking forward these proposals and working out the details with Turkey before the European Council of 18-19 March.

EU migrant crisis: Hunting for migrants high above sea. By Gavin Lee. *BBC News*

[Online]. 16 March 2016. Available from: <http://www.bbc.co.uk/news/world-europe-35824041>

✎ The EU naval force targeting migrant smuggling gangs says there has been a sudden increase in the number of boats attempting to cross from Libya to Italy.

Italy rescues 2,400 boat migrants, finds three corpses. By Isla Binnie. *Reuters* [Online].

16 March 2016. Available from: <http://uk.reuters.com/article/uk-europe-migrants-italy-rescues-idUKKCN0W12M4> More than 2,400 migrants have been rescued from boats in the Strait of Sicily in the last two days and emergency services recovered three corpses, Italy's coast guard said on Wednesday.

More than one million refugees travel to Greece since 2015.

United Nations High Commissioner for Refugees (UNHCR) [Online]. 16 March 2016.

Available from: <http://www.unhcr.org/56e9821b6.html> The UN Refugee Agency said today that more than one million people, mostly refugees from Syria, Iraq and Afghanistan, have now crossed into Greece since the start of 2015.

On eve of migration summit, UN rights expert urges EU countries to revisit border controls. *UN News Centre* [Online]. 16 March 2016. Available from:

<http://www.un.org/apps/news/story.asp?NewsId=53457> Making Turkey the "gatekeeper" does not absolve Europe from its responsibility of welcoming migrants, a United Nations human rights expert today, warning that the only way for Europe to secure its borders is to offer safe and regular channels for mobility.

IOM Launches Survey: Human Trafficking and Exploitation Prevalence on Eastern Mediterranean Migrant Routes. *International Organization for Migration (IOM)* [Online].

18 March 2016. Available from: <https://www.iom.int/news/iom-launches-survey-human-trafficking-and-exploitation-prevalence-eastern-mediterranean-migrant> IOM has found that nearly 1 in 10 migrant and refugee respondents have answered positively to an indicator of the presence of human trafficking and other exploitative practices along the eastern Mediterranean migration route.

'Refugees' and 'Migrants'- Frequently Asked Questions (FAQs).

United Nations High Commissioner for Refugees (UNHCR) [Online]. 16 March 2016.

Available from: <http://www.unhcr.org/56e95c676.html>

European Council conclusions, 17-18 March 2016. *European Commission* [Online].

18 March 2016. Available from: <http://www.consilium.europa.eu/en/press/press-releases/2016/03/18-european-council-conclusions/> The European Council confirms its comprehensive strategy to tackle the migration crisis.

Greece appeals for logistics aid for migrant deal to work. By Karolina Tagaris and Renee Malteizou. *Reuters* [Online]. 21 March 2016. Available from:

<http://www.reuters.com/article/us-europe-migrants-greece-lesbos-idUSKCN0WN0R8> ✎

Greece appealed to its EU partners on Monday for logistical help to implement a deal with Turkey aimed at stemming the flow of migrants and refugees into Europe as people, many unaware of the tough new rules, continued to come ashore on the Greek islands.

First migrants arrive in Lesbos under new rules. By James Reynolds. *BBC News* [Online]. 20 March 2016. Available from: <http://www.bbc.co.uk/news/world-europe-35855003>  Migrants have arrived in Lesbos, and will now be affected by the new agreement in place with Turkey.

Italy rescues 910 boat migrants, finds one body. By Agnieszka Flak. *Reuters* [Online]. 19 March 2016. Available from: <http://www.reuters.com/article/europe-migrants-italy-rescues-idUSL5N16R0QR> More than 900 migrants were rescued in four separate operations in the Strait of Sicily on Saturday and emergency services recovered one corpse, Italy's coast guard said.

Mediterranean Migrant Arrivals in 2016 Near 155,000; Deaths Reach 467. *International Organization for Migration (IOM)* [Online]. 18 March 2016. Available from: <http://www.iom.int/news/mediterranean-migrant-arrivals-2016-near-155000-deaths-reach-467> With winter ending and warmer conditions prevailing, the Central Mediterranean migrant route between North Africa and Sicily has become busier, monitors from IOM in Rome report, indicating a surge of migrant and refugee arrivals under way in the months to come.

Migrant returns start Sunday, after EU and Turkey strike refugee swap deal. By Catherine Stupp, Heriette Jacobsen, Jorge Valero, and Matthew Tempest. *EurActiv* [Online]. 18 March 2016. Available from: <http://www.euractiv.com/section/global-europe/news/migrant-returns-start-sunday-after-eu-and-turkey-strike-refugee-swap-deal/> All migrants and refugees arriving in Greece from this Sunday (20 March) will be returned to Turkey, under a controversial agreement hammered out over two days between the EU and Ankara at a summit in Brussels.

Unemployed Seafarers on Passenger Vessels Could Rescue Migrants. By Captain John Dalby, AFNI Founder & CEO of Marine Risk Management. *Maritime Executive* [Online]. 17 March 2016. Available from: <http://maritime-executive.com/blog/unemployed-seafarers-on-passenger-vessels-could-rescue-migrants> Whilst acknowledging, indeed applauding, the great work being undertaken by the naval forces in the Mediterranean and their vital contribution to the humanitarian efforts, it's about time the politicians practiced what they preach about civilian/military co-operation.

Refugee crisis: EU Fisheries Control Agency to help detect migrant boats. *European Parliament* [Online]. 22 March 2016. Available from: <http://www.europarl.europa.eu/news/en/news-room/20160321IPR20217/Refugee-crisis-EU-Fisheries-Control-Agency-to-help-detect-migrant-boats> The European Fisheries Control Agency (EFCA) which centralises and coordinates EU member states' fisheries inspections, will be empowered to use the data provided by its ship reporting systems to detect vessels carrying migrants under updated rules approved by Parliament's Fisheries Committee.

UNHCR redefines role in Greece as EU-Turkey deal comes into effect. *United Nations High Commissioner for Refugees (UNHCR)* [Online]. 22 March 2016. Available from: <http://www.unhcr.org/56f10d049.html> This past Sunday, the provisions agreed between the EU and Turkey to stem the large-scale arrival of refugees and migrants to Greece and beyond into Europe came into effect.

For refugees eyeing Europe, a website separates fact from fiction. By Sebastien Malo. *Reuters* [Online]. 21 March 2016. Available from: <http://www.reuters.com/article/us-mideast-crisis-refugees-idUSKCN0WN2FF> Desperately seeking new lives, migrants traveling to Europe often hear lies and rumors such as promises of an escort across a forbidden border or offers of steady work that can steer them in the wrong direction and even endanger their lives.

UNHCR refuses to play ball with EU, as 'hotspots' become prisons. *EurActiv* [Online].

23 March 2016. Available from: <http://www.euractiv.com/section/justice-home-affairs/news/unhcr-refuses-to-play-ball-with-eu-as-hotspots-become-prisons/> The United Nations refugee agency has refused to get involved in the refugee returns organised by the EU under its recent deal with Turkey, claiming that the so-called "hotspots" on the Greek islands, where refugees and migrants are received, assisted, and registered, have become prisons.

Greece: MSF ends activities inside the Lesbos "hotspot". *Médecins Sans Frontières (MSF)*

[Online]. 22 March 2016. Available from: <http://www.msf.org/article/greece-msf-ends-activities-inside-lesvos-%E2%80%9Chotspot%E2%80%9D> The international medical humanitarian organization Doctors Without Borders/Médecins Sans Frontières (MSF) has decided to suspend its activities linked to the Moria "hotspot" on Lesbos without further notice.

MOAS saves and assists 1,633 people in the Aegean Sea over the last three months in a period of increasing refugee traffic and political pressure. *Migrant Offshore Aid Station (MOAS)* [Online].

22 March 2016. Available from: <https://www.moas.eu/moas-saves-assists-1633-people-aegean-sea-last-three-months-period-increasing-refugee-traffic-political-pressure/> Search and rescue NGO MOAS (Migrant Offshore Aid Station) has helped save the lives of over 1,500 people in three months of operations in the Aegean Sea, despite an increasing hostile environment.

International Rescue Effort Continues in the Aegean. *International Maritime Rescue Federation* [Online].

22 March 2016. Available from: <http://international-maritime-rescue.org/10-news/1967-international-rescue-effort-continues-in-the-aegean> The International Maritime Rescue Federation (IMRF) remains committed to developing the maritime search and rescue (SAR) capability of the Greek volunteer service, even following the EU Turkey agreement.

Italy reports upsurge in migrants crossing from Libya. By Peter Tefer. *EU Observer*

[Online]. 29 March 2016. Available from: <https://euobserver.com/migration/132815> The Italian coastguard reported on Monday (28 March) it had rescued 1,482 migrants off the Libyan coast in two days, a new indication that the number of migrants attempting to cross the Mediterranean to Italy is on the rise.

Europe / Mediterranean - Migration Crisis Response Situation Report | 24 March 2016.

International Organization for Migration (IOM) [Online]. 28 March 2016. Available from: <https://www.iom.int/sitreps/europe-mediterranean-migration-crisis-response-situation-report-24-march-2016>

Who shot 7 Cuban migrants? Wounded rafters say gunmen tried to steal boat.

By Alfonso Chardy and Sergio Cándido. *Miami Herald* [Online]. 27 March 2016.

Available from: <http://www.miamiherald.com/news/local/immigration/article68525912.html>

Yaser Cabrera Romero, one of the rafters who arrived from Cuba on Saturday, talks to the press on Sunday and shows the bullet wound he sustained during the crossing.

NATO's performance on migrants at sea 'infuriates' Tsipras. By Sarantis Michalopoulos.

EurActiv [Online]. 25 March 2016. Available from: <http://www.euractiv.com/section/global-europe/news/natos-performance-on-migrants-at-sea-infuriates-tsipras/> Greek premier Alexis Tsipras contacted the head of NATO chief this week to express his dissatisfaction with the military alliance's poor results to tackle the refugee crisis in the Aegean Sea, according to Greek media.

NAVIGATION AND COMMUNICATIONS

US pushes IMO to accept Iridium as GMDSS provider, Inmarsat pushes back.

By Craig Eason. *Lloyd's List* [Online]. 25 February 2016. Available from:

<https://www.lloydslist.com/ll/sector/ship-operations/article517674.ece> The US is to push member states at the International Maritime Organization to agree to US-listed satellite service provider Iridium providing mandatory distress calling services despite not having the technology up and running.

Further investment essential for maritime safety communications. By Martyn Wingrove.

Marine Electronics and Communications [Online]. 8 March 2016. Available from:

http://www.marinemec.com/news/view,further-investment-essential-for-maritime-safety-communications_42172.htm The importance of investing in maritime safety communications was highlighted last week with the 25th anniversary of the Inmarsat C service.

In Response to News Alleging Vessels Change Routes To The Cape Of Good Hope.

Suez Canal Authority [Online]. 3 March 2016. Available from:

<http://www.suezcanal.gov.eg/SCnewsDetails.aspx?Show=683> Admiral/ Mohab Mamish, Chairman and Managing Director of the Suez Canal Authority declared that "the Suez Canal is the main route for world trade, and no other alternative can take its place in the field of maritime transport".

Marsh warns of ship grounding risk as a result of using outdated charts.

By Jim Mulrenan. *TradeWinds* [Online]. 10 March 2016. Available from:

<http://www.tradewindsnews.com/weekly/388237/marsh-warns-of-ship-grounding-risk-as-a-result-of-using-outdated-charts> The new vessels draw larger draughts but are using charts where water depths are based on lead-line soundings, often measured in fathoms, from up to a century ago.

Frightened by an uncharted future. By Michael Grey. *Lloyd's List* [Online]. 14 March 2016.

Available from: <https://www.lloydslist.com/ll/sector/ship-operations/article518796.ece>

It might seem very convenient, but it is extremely unwise to use the passage plan from a previous voyage for the current one.

A new Titanic? US and Canada prepare for worst as luxury Arctic cruise sets sail.

By Suzanne Goldenberg. *The Guardian* [Online]. 28 March 2016. Available from:

<http://www.theguardian.com/us-news/2016/mar/28/us-canada-arctic-cruise-ship-titanic-emergency-training-coast-guard> On 13 April, coast guard officials from the US and Canada will train for a cruise ship catastrophe: a mass rescue from a luxury liner on its maiden voyage through the remote and deathly cold waters between the Northwest Passage and the Bering Strait.

PIRACY

Nigerian Navy rescues hijacked foreign ship, sends words to sea pirates.

By Evelyn Usman. *Vanguard (Nigeria)* [Online]. 27 February 2016. Available from: <http://www.vanguardngr.com/2016/02/nigerian-navy-rescues-hijacked-foreign-ship-sends-words-to-sea-pirates/> As they sailed on the turbulent tides of the sea off the coast of Cote D'Ivoire, several thoughts ran through the minds of the 18 crew members on board *MT MAXIMUS*, a Saudi-Arabian ship.

20 Years in Prison for Somali Pirate Kingpin, Belgian Court Rules. *Oceanus Live* [Online]. 14 March 2016. Available from:

<http://www.oceanuslive.org/Main/ViewNews.aspx?uid=00001112> The Bruges Criminal Court, sentenced, in absentia, the Somali pirate Kingpin Mohamed Abdi Hassan (60), to 20 years in prison for the hijacking of merchant vessel *Pompeii*.

ISWAN/MPHRP Welcomes Jailing of Pirate Kingpin. *International Seafarers' Welfare and Assistance Network (ISWAN)* [Online]. 17 March 2016. Available from:

<http://www.seafarerswelfare.org/news-and-media/latest-news/iswan-mphrp-welcomes-jailing-of-pirate-kingpin> ISWAN welcomes the news of the jailing of Somali pirate kingpin Mohamed Abdi Hassan in Belgium for 20 years for the hijacking of the *Pompei*, a Belgian flagged ship captured by pirates in April 2009.

Singapore reaffirms ReCAAP's role in regional counter-piracy efforts.

Maritime and Port Authority of Singapore (MPA) [Online]. 17 March 2016. Available from: <http://www.mpa.gov.sg/web/portal/home/media-centre/news-releases/detail/89e03faa-59f3-4316-9cd0-f513f2cb4e8b> As a Contracting Party to the Regional Cooperation Agreement on Combating Piracy and Armed Robbery (ReCAAP) and host to the ReCAAP Information Sharing Centre (ISC), Singapore today reaffirmed the instrumental role ReCAAP has played in anti-piracy and armed robbery against ships in Asia on the occasion of the ReCAAP 10th Governing Council meeting.

Sri Lanka demonstrates commitment to combat maritime piracy and armed robbery.

Government of Sri Lanka [Online]. 21 March 2016. Available from: <http://www.news.lk/news/business/item/12673-sri-lanka-demonstrates-commitment-to-combat-maritime-piracy-and-armed-robbery> Demonstrating strong commitment to combat maritime piracy and armed robbery at sea in the region, Sri Lanka along with twenty other countries took part in a symposium and a high level meeting held to commemorate the 10th anniversary of the Regional Cooperation Agreement on Combating Piracy and Armed Robbery against Ships in Asia (ReCAAP) in Singapore on 18th March 2016.

Indonesian vessel hijacked, crew held in Philippines. *Jakarta Post* [Online]. 29 March 2016.

Available from: <http://www.thejakartapost.com/news/2016/03/29/indonesian-vessel-hijacked-crew-held-philippines.html> The Indonesian Embassy in Manila has confirmed that an Indonesian vessel has been hijacked in the Philippines and its crew is being held hostage.

PORT STATE CONTROL

Philippines bars N. Korea-linked ship from leaving port over safety issues.

By Keith Wallis and Manuel Mogato. *Reuters* [Online]. 4 March 2016. Available from: <http://uk.reuters.com/article/northkorea-nuclear-ships-idUKL3N16C25I> The Philippines Coast Guard has banned a North Korean freighter from leaving port until safety deficiencies, found during a security and safety inspection of the vessel, are rectified, officials said on Friday.

NIMASA highlights need for Port State control in West Africa. By Tola Adenubi.

Nigerian Tribune [Online]. 10 March 2016. Available from: <http://tribuneonline.ng.com/nimasa-highlights-need-for-port-state-control-in-west-africa> The Nigerian Maritime Administration and Safety Agency (NIMASA) has highlighted the need for Port State control in government's efforts to rid the West African region coastline of substandard vessels.

Suspected North Korean vessel held at Misamis Oriental port. By Raymund F. Antonio.

Manila Bulletin [Online]. 15 March 2016. Available from: <http://www.mb.com.ph/suspected-north-korean-vessel-held-at-misamis-oriental-port/> Authorities held another North Korean ship at the Mindanao Container Terminal (MCT), but they are still verifying if it was among the 31 vessels with United Nations (UN) sanctions.

US Coast Guard removes conditions of entry on vessels arriving from Cuba.

US Coast Guard Newsroom [Online]. 17 March 2016. Available from: <http://www.uscgnews.com/go/doc/4007/2798438/> Following a comprehensive assessment, the United States Coast Guard has determined that Cuba meets the International Ship and Port Facility Security (ISPS) Code requirements established by the International Maritime Organization (IMO) and has effective security measures in their ports.

Foreign flagged ships under detention in the UK during February 2016.

UK Maritime & Coastguard Agency [Online]. 17 March 2016. Available from: <https://www.gov.uk/government/news/foreign-flagged-ships-under-detention-in-the-uk-during-february-2016> At the beginning of February there were four vessels under detention.

US could axe half of flags from Qualship list. By Eric Martin. TradeWinds [Online].

28 March 2016. Available from: <http://www.tradewindsnews.com/casualties/390405/us-could-axe-half-of-flags-from-qualship-list> The US Coast Guard could cut 13 countries from a list of top-performing flag states that allows ships to face fewer inspections.

PORTS AND HARBOURS

Oman port targets bigger Iran shipping ties as market opens up. By Jon Boyle.

Reuters [Online]. 29 February 2016. Available from: <http://www.reuters.com/article/oman-iran-shipping-idUSL8N15R402> Feb 29 Oman aims to expand shipping and trade links with Iran and get ahead of rivals after the lifting of international sanctions on Tehran, leading port officials involved say.

APM Terminals Buenos Aires Wins Safety Award. APM Terminals [Online]. 3 March 2016.

Available from: <http://www.apmterminals.com/en/news/press-releases/2014/12/apmt-buenos-aires-wins-safety-innovation-award> ICHCA's inaugural International 'Innovation in Safety' Award was presented in recognition of APM Terminals Buenos Aires Terminal 4's "Safety Logging System".

Port of Gothenburg expands. *Port of Gothenburg* [Online]. 2 March 2016. Available from: <http://www.portofgothenburg.com/News-desk/Press-releases/Port-of-Gothenburg-expands/> It is the largest expansion project at the port since the 1970s.

Port Regulation: Parliament vote brings ports one step closer to autonomy. *European Sea Ports Organization (ESPO)* [Online]. 9 March 2016. Available from: <http://www.espo.be/news/port-regulation-parliament-vote-brings-ports-one-s> Yesterday, the European Parliament voted on the Port Regulation and the Fleckenstein Report.

Government to Consider Proposals for Land Based Storage Facilities for Marine Fuels. *Gibraltar Port Authority* [Online]. 18 March 2016. Available from: <http://www.gibraltarport.com/node/389> The need for Land Storage to support and enhance Port activities has been an issue that has been alive for some years and this process will evaluate in some detail with interested parties the possibilities for the provision of this in Gibraltar.

Panama Canal Inaugurates Scale Model Training Facility, Announces Expansion Inauguration Date. *Panama Canal Authority* [Online]. 23 March 2016. Available from: <http://micanaldepanama.com/expansion/2016/03/panama-canal-inaugurates-scale-model-training-facility-announces-expansion-inauguration-date/> The announcement was made this morning during the inauguration ceremony of the Canal's state-of-the-art Scale Model Maneuvering Training Facility, which will provide additional hands-on experience to pilots and tugboat captains to operate in the Expanded Panama Canal.

Work on Nicaragua's Panama Canal Alternative to Start as Early as August with Fuel Terminal, Ship Wharf. *Ship & Bunker* [Online]. 22 March 2016. Available from: <http://shipandbunker.com/news/am/263591-work-on-nicaraguas-panama-canal-alternative-to-start-as-early-as-august-with-fuel-terminal-ship-wharf> Hong-Kong based HKND Group Thursday indicated that work is set to begin as early as this August on The Nicaragua Grand Canal, a planned alternative to the Panama Canal linking the Atlantic and Pacific.

ESPO reveals new top 10 environmental priorities of ports. *European Sea Ports Organization (ESPO)* [Online]. 25 March 2016. Available from: <http://www.espo.be/news/espo-reveals-new-top-10-environmental-priorities-o> The aim of the review is to update the top 10 environmental priorities of European ports and to produce further benchmark figures in key areas of port environmental management. [European Port Industry Sustainability Report 2016](#) 

RECYCLING OF SHIPS

Adult and underage workers risk their lives in Bangladesh's rising ship-breaking industry. By Shashank Bengali. *Los Angeles Times* [Online]. 9 March 2016. Available from: <http://www.latimes.com/world/asia/la-fg-bangladesh-ships-20160309-story.html> In late November, a 52,000-ton barge eased into this ramshackle port on the Bay of Bengal and came to rest on a wide, muddy beach.

The nature of shipbreaking is casting a shadow over the shipping industry. By Aaran Fronda. *World Finance* [Online]. 10 March 2016. Available from: <http://www.worldfinance.com/markets/the-nature-of-shipbreaking-is-casting-a-shadow-over-the-shipping-industry> The shipbreaking industry is a lucrative business, but unless the international community hastens to adopt more effective safety regulations, it will have a negative impact on the shipping sector at large.

Why owners must embrace sustainable ship recycling. By Anil Sharma, President and CEO of GMS. *Splash* 24/7 [Online]. 15 March 2016. Available from: <http://splash247.com/why-owners-must-embrace-sustainable-ship-recycling/> Ship recycling plays a vital role in the lifecycle of a ship, as it is fundamental to the progression of the industry and shipbuilding.

Turkish shipbreakers stick with Brussels to keep EU niche market. By Jonathan Boonzaier. *TradeWinds* [Online]. 18 March 2016. Available from: <http://www.tradewindsnews.com/weekly/389285/turkish-shipbreakers-stick-with-brussels-to-keep-eu-niche-market> Competitive disadvantages with Asia are pushing the Turkish demolition sector to opt for EU regulation over the Hong Kong Convention to retain its 'main tonnage source'

REGULATIONS

ABS Releases New Guide for Hazardous Materials Inventory. ABS (*American Bureau of Shipping*) [Online]. 1 March 2016. Available from: http://ww2.eagle.org/en/news/press-room/2016/Release_New_Guide_Hazardous_Materials_Inventory.html The Guide provides ABS requirements for reviewing and verifying the initial Inventory of Hazardous Materials (IHM) for newbuilds and existing vessels and defines obligations for maintenance, verification and endorsement for vessels in service. [Guide](#) 

Shipping Companies Seek Details on 'Impossible' Container Weight Rule. By Loretta Chao. *Wall Street Journal* [Online]. 29 February 2016. Available from: <http://www.wsj.com/articles/shipping-companies-seek-details-on-impossible-container-weight-rule-1456783254> A group of global logistics companies called on international ocean shipping regulators to clarify and provide more detail on new container-weighting requirements they say will require significant changes to the transport of goods around the world.

US Coast Guard 'U-turn' on box weights shocks safety campaigners. By Janet Porter. *Lloyd's List* [Online]. 2 March 2016. Available from: <https://www.lloydslist.com/ll/sector/containers/article518200.ece> The authority of the International Maritime Organization to regulate on ship safety issues is being undermined by the US Coast Guard, which is refusing to enforce the new container weight verification rules that come into effect on July 1.

Heritage and the human element – Ship Bridge Regulation. *ShipInsight* [Online]. 2 March 2016. Available from: <https://www.shipinsight.com/heritage-and-the-human-element-ship-bridge-regulation/> Most regulation regarding bridge equipment and standards are to be found within SOLAS. In the past most regulation was prescriptive laying down performance standards but recently goal based standards have become more common.

Container Weighing: WSC Writes to Zukunft. *Maritime Executive* [Online]. 3 March 2016. Available from: <http://www.maritime-executive.com/editorials/container-weighing-wsc-writes-to-zukunft> Following remarks made by U.S. Coast Guard Rear Admiral Paul Thomas earlier this week, the World Shipping Council has written to Admiral Paul F. Zukunft, Commandant of the Coast Guard, to clarify its position.

Coast Guard Admiral Clarifies Container Weighing Comments. *Maritime Executive* [Online]. 3 March 2016. Available from: <http://www.maritime-executive.com/editorials/coast-guard-admiral-clarifies-container-weighing-comments> The U.S. Coast Guard's assistant commandant for prevention policy, Rear Admiral Paul Thomas, recently spoke on a panel at the 16th Annual TPM Conference in Long Beach, California.

Furious WSC demands answers from USCG over box weighing policy reversal.

By Janet Porter. *Lloyd's List* [Online]. 3 March 2016. Available from: <https://www.lloydslist.com/ll/sector/posidonia/article518513.ece> The World Shipping Council has written directly to the head of the US Coast Guard demanding clarification on how it plans to implement mandatory container weight checks after the agency appeared to unilaterally reinterpret the International Maritime Organization rules.

The final countdown. By James Baker. *Lloyd's List* [Online]. 7 March 2016. Available from: <https://www.lloydslist.com/ll/news/commentary/article518762.ece> Container weighing is coming, like it or not, and the US needs to get on board now.

Wärtsilä efficiency scandal: Transparency or damage control, or both?

By Charlie Bartlett. *Seatrade Maritime News* [Online]. 9 March 2016. Available from: <http://www.seatrade-maritime.com/news/asia/wartsila-transparency-or-damage-control-or-both.html> When the news broke that Volkswagen had used software to cheat emissions testing procedures, the rest of the car industry stayed quiet on the matter, happy to let the German carmaker take the fall.

Top ILWU official joins protests over USCG stance on box weighing. By Janet Porter.

Lloyd's List [Online]. 8 March 2016. Available from: <https://www.lloydslist.com/ll/sector/containers/article518870.ece> Local 13 president Bobby Olvera calls for accurate container certifications as some shipper groups resist new IMO rules.

EU sulfur rule non-compliance about 5% in 2015: EMSA. By Unni Einemo. *Bunkerworld* [Online]. 9 March 2016. Available from: <http://www.bunkerworld.com/news/EU-sulfur-rule-non-compliance-about-5-in-2015-EMSA-141030> Around 5% of all ships inspected for compliance with European Union sulfur regulations during 2015 failed to meet the requirements, and not only in emission control areas, according to data from THETIS-S system developed by the European Maritime Safety Agency (EMSA) to collect data from all EU member states.

New E.U. Port Services Regulation Draws Criticism. *Maritime Executive* [Online]. 8 March 2016. Available from: <http://maritime-executive.com/article/new-eu-port-services-regulation-draws-criticism> Draft rules designed to boost the efficiency and cut the cost of services supplied at E.U. maritime ports, such as mooring and towage, were voted by the European Parliament on Tuesday.

Barcelona Draws up Container Weighing Procedure. By Eric Haun. *MarineLink.Com* [Online]. 11 March 2016. Available from: <http://www.marinelink.com/news/barcelona-container406504.aspx> The Port of Barcelona reports it has become the first port in Spain to complete and make available a procedure for its customers and users in line with the container weighing new rules adopted by the International Maritime Organization (IMO) and incorporated into Chapter VI of the Safety Of Life At Sea (SOLAS) Convention.

Container weighing regulation is 'very challenging': INTTRA. By Marcus Hand. *Seatrade Maritime News* [Online]. 15 March 2016. Available from: <http://www.seatrade-maritime.com/news/americas/container-weighing-regulation-is-very-challenging-inttra.html> Box shipping e-marketplace INTTRA, which is rolling an electronic system to submit verified weights of containers, says the new regulation is "very challenging".

AgTC supports USCG on box weighing rules. By James Baker. *Lloyd's List* [Online].

14 March 2016. Available from:

<https://www.lloydslist.com/ll/sector/containers/article519553.ece> The Agriculture Transportation Coalition has written to the Commandant of the US Coast Guard, Admiral Paul Zukunft, in support of the USCG's interpretation of the container weight amendment to the Safety Of Life At Sea Convention.

Looming BWM Convention is Raising the "Life or Death" Stakes for Beleaguered Ship Owners. *Ship & Bunker* [Online]. 21 March 2016. Available from:

<http://shipandbunker.com/news/world/886415-looming-bwm-convention-is-raising-the-life-or-death-stakes-for-beleaguered-ship-owners>

Credit managers and vessel owners alike likely need no reminders over the mounting pressures currently effecting the industry, but owners are now facing yet another threat to their liquidity from the impending Ballast Water Management (BWM) Convention.

New Container Weight Rule Could Raise Shipping Costs, Congestion.

Hellenic Shipping News [Online]. 22 March 2016. Available from:

<http://www.hellenicshippingnews.com/new-container-weight-rule-could-raise-shipping-costs-congestion/>

An impending international requirement that shippers verify the weight of their goods before transport will sharply raise shipping costs on major trade lanes and trigger delays in moving cargo through ports, according to a new report.

OCEMA Adopts Verified Gross Mass (VGM) Best Practice and VGM Process Map.

Ocean Carrier Equipment Management Association (OCEMA) [Online]. 21 March 2016.

Available from:

<http://ocema.org/docs/OCEMA%20Press%20Release%20re%20OCEMA%20VGM%20Best%20Practice%20and%20VGM%20Process%20Map.pdf>

In an effort to facilitate compliance with the IMO's Verified Gross Mass rule, OCEMA's 18 ocean carrier members have unanimously adopted a Recommended Best Practice for the Acceptance and Transmission of Verified Gross Mass.

SEAFARERS

Crew Rescued. By Thompson Marango. *Vanuatu Daily Post* [Online]. 2 March 2016.

Available from: http://dailypost.vu/news/crew-rescued/article_ed169c16-a88d-5b40-9634-bb5f0e6ff328.html

All 13 crew members have been rescued after Y.A Shipping's Landing Craft (LC), *Mahalia*, capsized 14 miles from Erromango yesterday morning.

ISWAN to hold Manila event to mark the 2016 IMO Day of the Seafarer.

International Seafarers' Welfare and Assistance Network (ISWAN) [Online]. 29 February 2016.

Available from: <http://www.seafarerswelfare.org/news-and-media/latest-news/iswan-to-hold-manila-event-to-mark-the-imo-day-of-the-seafarer>

The International Seafarers' Welfare and Assistance Network (ISWAN) is delighted to announce that it will be holding an event to celebrate the International Maritime Organization (IMO) Day of the Seafarer on 25th June 2016.

Tide of remembrance for forgotten sailors. By Peng Yining. *China Daily.Com* [Online].

2 March 2016. Available from: http://usa.chinadaily.com.cn/china/2016-03/02/content_23705751.htm

During World War II, more than 20,000 Chinese mariners served the British merchant fleet with distinction.

ISWAN 'Lifeline' Video March 2016. *International Seafarers' Welfare and Assistance Network (ISWAN)* [Online]. 3 March 2016. Available from:

<https://www.youtube.com/watch?v=4EbUOxIZl4&feature=youtu.be>

Seaman Guard Ohio: Who is Paying? By Li J Chin. *Maritime Executive* [Online]. 7 March 2016. Available from: <http://www.maritime-executive.com/features/seaman-guard-ohio-owners-contact-families> On October 12, 2013, the 35 crew and guards on the *Seaman Guard Ohio* were arrested in India's territorial waters for possession of illegal arms and environmental pollution.

NZ ratifies Maritime Labour Convention. *Government of New Zealand* [Online]. 9 March 2016. Available from: <https://www.beehive.govt.nz/release/nz-ratifies-maritime-labour-convention> New Zealand has ratified the International Labour Organisation's Maritime Labour Convention to ensure fair treatment of seafarers and protect the reputation of New Zealand exports, Workplace Relations and Safety Minister Michael Woodhouse and Associate Transport Minister Craig Foss announced today.

Regent Seven Seas appoints a woman captain, first in the NCLH group. *Seatrade Cruise News* [Online]. 9 March 2016. Available from: <http://www.seatrade-cruise.com/news/news-headlines/regent-seven-seas-appoints-a-woman-captain-first-in-the-nclh-group.html> Serena Melani was promoted to captain of *Seven Seas Mariner*, and is the first woman to command a Regent Seven Seas Cruises ship.

Seafarers: The Forgotten Workforce (The HRAS Interview: Cecily Hardy, Creative Producer, Blue Angel BIG hART). *Human Rights at Sea (HRAS)* [Online]. 5 March 2016. Available from: <https://thehrasinterview.wordpress.com/2016/03/05/the-hras-interview-cecily-hardy-creative-producer-blue-angel-big-hart/> For some people art is purely for decoration or entertainment, but for community artists in the Big hART group it is a powerful form of communication, often associated with social change.

Maritime CEO Forum: Should seafarers ditch their career at sea early? *Splash 24/7* [Online]. 15 March 2016. Available from: <http://splash247.com/maritime-ceo-forum-should-seafarers-ditch-their-career-at-sea-early/> This demographic debate sparked heated discussion at the inaugural Maritime CEO Forum in Singapore today.

Mission to Seafarers Manila supports seafarer shot during piracy ordeal. *Mission to Seafarers* [Online]. 21 March 2016. Available from: <http://www.missiontoseafarers.org/index.php/media-centre/news/305/mission-to-seafarers-manila-supports-seafarer-shot-during-piracy-ordeal> The Mission to Seafarers Manila has come to the aid of a Filipino seafarer and his family after a tanker was attacked by pirates.

Indonesia rebuffs China's demand that fishermen be released. By Niniek Karmini. *Associated Press (AP)* [Online]. 23 March 2016. Available from: <http://bigstory.ap.org/article/c103e13c48b9427b89372feb9880d05a/indonesia-rebuffs-chinas-demand-fishermen-be-released> Indonesia has refused Chinese demands that it release eight fishermen arrested for illegal fishing in a growing confrontation that analysts say dispels the idea that Indonesia has no stake in South China Sea disputes.

Thai Fishing Slaves As Vulnerable as Ever. *Maritime Executive* [Online]. 22 March 2016. Available from: <http://maritime-executive.com/editorials/thai-fishing-slaves-as-vulnerable-as-ever> A joint publication released this month by the International Labour Rights Forum and the Migrant Workers Rights Network (MWRN) indicates that a change in approach is required to tackle the slavery problems in the Thai fishing industry.

Building a rights culture. *International Labor Rights Forum* [Online]. March 2016. Available from: <http://www.laborrights.org/sites/default/files/publications/MWRN%20report%20online.pdf>  Egregious labor rights abuses, including forced labor and human trafficking, have been documented across Thailand's seafood sector in dozens of reports over more than a decade.

Pirates Kidnap Five Crewmembers Off Nigeria. *Maritime Executive* [Online]. 28 March 2016. Available from: <http://www.maritime-executive.com/article/pirates-kidnap-five-crewmembers-off-nigeria> The product tanker *Sampatiki* reported a pirate attack off of Nigeria in the early hours of March 26. .

Final Group of Fisheries 'Slaves' to be Repatriated from Indonesia.

International Organization for Migration (IOM) [Online]. 22 March 2016. Available from: <https://www.iom.int/news/final-group-fisheries-slaves-be-repatriated-indonesia> One year after shocking revelations were made about slavery in the fisheries in Southeast Asia, the last group of men trafficked onto vessels operating in Indonesian waters is preparing to return home.

SEARCH AND RESCUE

MOAS launches pioneering South East Asian mission to track movement and well being of refugees at sea. *Migrant Offshore Aid Station (MOAS)* [Online]. 25 February 2016.

Available from: <https://www.moas.eu/moas-launches-pioneering-south-east-asian-mission-to-track-movement-and-well-being-of-refugees-at-sea/> Global search and rescue charity MOAS (Migrant Offshore Aid Station) will begin a new mission in South East Asia on March 3 in the Andaman Sea.

SHIPBUILDING AND SHIPREPAIR

1st Polar Class Cruise Ships Coming to Market. *World Maritime News* [Online].

2 March 2016. Available from: <http://worldmaritimenews.com/archives/184465/1st-polar-class-cruise-ships-coming-to-market/> The industry's first luxury passenger vessels that are purpose-built for waters previously served by robust but ageing expedition ships are coming to market anent entrance into force of the new Polar Code.

DNV GL scrubber ready - A step ahead of tomorrow's regulations.

By Simon David Adams. *DNV GL* [Online]. 3 March 2016. Available from: <https://www.dnvgl.com/news/dnv-gl-scrubber-ready-a-step-ahead-of-tomorrow-s-regulations-58846> DNV GL has created a new class notation to help shipowners prepare their newbuildings for the installation of a scrubber.

World's largest cruise ship makes test run in French waters. *France 24* [Online].

10 March 2016. Available from: <http://www.france24.com/en/20160310-video-world-largest-cruise-ship-harmony-seas-sea-trial-france> 📺 The world's largest cruise ship, *Harmony of the Seas*, set off on its first sea trial from Saint-Nazaire in western France on Thursday, just two months before it is due to be delivered to the US-based cruise company Royal Caribbean International.

MHI Completes Delivery of "AIDAprima," a New-Generation Cruise Ship, to AIDA Cruises.

Mitsubishi Heavy Industries, Ltd. [Online]. 15 March 2016. Available from: <https://www.mhi-global.com/news/story/1603141967.html> Today Mitsubishi Heavy Industries, Ltd. (MHI) completed delivery of the *AIDAprima*, the first of two large cruise ships being built for AIDA Cruises at MHI's Nagasaki Shipyard & Machinery Works.

Safety fears grow over China's chemical tanker building drive. By Hal Brown. *Lloyd's List* [Online]. 18 March 2016. Available from: <https://www.lloydslist.com/ll/sector/tankers/article520042.ece> Out of the 241 new chemical tankers on order, as many as 77 are being built at Chinese yards with limited experience of building complex chemical tankers.

SHIPPING

Minister of Transport and Communications Opens Gulf Marine Center. *Qatar News Agency (QNA)* [Online]. 25 February 2016. Available from: <http://www.qna.org.qa/en-us/News/16022518550082/Minister-of-Transport-and-Communications-Opens-Gulf-Marine-Center> The Minister of Transport and Communications Jassim bin Saif Al Sulaiti on Thursday opened the Gulf Marine Center in Al Wakrah in the presence of HE Civil Aviation Authority (CAA) Chairman Abdulla Nasser Turki Al Subaey and a number of officials from the transport and communications sector.

China, U.S. Move to Restrict North Korean Shipping. *Maritime Executive* [Online]. 25 February 2016. Available from: <http://www.maritime-executive.com/article/china-moves-to-restrict-north-korean-shipping> In anticipation of tightened international sanctions against North Korea following its recent nuclear and missile tests, several nations have already moved to restrict the movement of shipping to and from its ports.

Simple Steps to Futureproof the Shipping Industry. By Eric Haun. *MarineLink.Com* [Online]. 25 February 2016. Available from: <http://www.marinelink.com/news/futureproof-shipping405719.aspx> Senior decision makers from all sectors of the shipping industry met in Hamburg yesterday to hear some of the leaders in the digital revolution debate the opportunities and threats faced by the industry today.

India: Government initiatives to support shipping industry in coming time. *Hellenic Shipping News* [Online]. 29 February 2016. Available from: <http://www.hellenicshippingnews.com/india-government-initiatives-to-support-shipping-industry-in-coming-time/> Shipping is a global industry and its prospects are closely tied to the level of economic activity in the world.

Arctic shipping policy: What's wrong with this picture. By John Kaltenstein. *Friends of the Earth* [Online]. 1 March 2016. Available from: <http://www.foe.org/news/blog/2016-02-arctic-shipping-policy-whats-wrong-with-this-picture> One of the places on earth where there has been substantial discussion of sustainable development is the Arctic.

Boost for containerised cargo trade. *Ghana Web* [Online]. 1 March 2016. Available from: <http://www.ghanaweb.com/GhanaHomePage/business/Boost-for-containerised-cargo-trade-419947> Effective July 1 this year, packed cargo to be shipped from the country will have to be weighed to meet a specified verified gross mass before they could be loaded onto vessels for export.

FG Pledges to Reposition Maritime Sector. By Dele Ogbodo. *This Day Live (Nigeria)* [Online]. 1 March 2016. Available from: <http://www.thisdaylive.com/index.php/2016/03/01/fg-pledges-to-reposition-maritime-sector/> The Minister of Transportation, Mr. Rotimi Amaechi, on Monday said government is committed to reposition the maritime sector to meet global best practice and benchmarks.

ABS: The Future of Class. By Tony Munoz. *Maritime Executive* [Online]. 16 February 2016. Available from: <http://maritime-executive.com/magazine/abs-the-future-of-class> For more than 150 years ABS's leadership in scientific analysis, technology and human behavior has been at the forefront of safeguarding life at sea and protecting the marine environment.

ICHCA and FEPORT join forces at global and European level to raise the profile of the cargo handling industry. *International Cargo Handling Coordination Association (ICHCA)* [Online]. 1 March 2016. Available from: <http://ichca.com/ichca-and-feport-join-forces-at-global-and-european-level-to-raise-the-profile-of-the-cargo-handling-industry> ICHCA International, the global cargo handling NGO association, has agreed to work with the Federation of European Private Port Operators (FEPORT) on matters of mutual interest.

Calls Mount to Savagely Cut Ship Capacity. *Port Technology International* [Online]. 29 February 2016. Available from: https://www.porttechnology.org/news/calls_mount_to_savagely_cut_ship_capacity Drewry has argued in its latest Container Insight Weekly that carriers need to intensify their capacity management tactics in 2016 if they are to reverse the trend of costly overcapacity in the industry.

Women Are Moving up in the Maritime Industry. By Eric Haun. *MarineLink.Com* [Online]. 29 February 2016. Available from: <http://www.marinelink.com/news/maritime-industry-moving405885.aspx> Historically, women have played only a minor role in shipping, shipbuilding and related areas up to the present, but decision makers in the industry are now beginning to recognize their potential in view of the current shortage of skilled people.

New European study largely in favor of LNG as fuel for ships. By Unni Einemo. *Bunkerworld* [Online]. 2 March 2016. Available from: <http://www.bunkerworld.com/news/140966> A report for the European Federation for Transport and Environment (T&E) found little to commend LNG as a fuel for road transportation, but sees several benefits of using it for maritime transportation.

The role of natural gas and biomethane in the transport sector. *Ricardo Energy & Environment for Transport & Environment* [Online]. 16 February 2016. Available from: http://www.transportenvironment.org/sites/te/files/publications/2016_02_TE_Natural_Gas_Biomethane_Study_FINAL.pdf The transport sector is a significant contributor to economy-wide greenhouse gas (GHG) emissions in Europe, and accounted for more than 20% of total GHG emissions in the EU in 2012 (European Commission, 2015).

Natural gas in ships: Costs/benefits of LNG versus conventional fossil fuels. *Transport & Environment* [Online]. March 2016. Available from: http://www.transportenvironment.org/sites/te/files/publications/2015_02_TE_briefing_natural_gas_shipping_FINAL.pdf To understand what role natural gas could have in reducing ship emissions in Europe, Transport & Environment commissioned a study from Ricardo Energy & Environment to examine the cost impacts and environmental effectiveness of the large-scale use of natural gas in shipping

Satellite firm Inmarsat says global slowdown hitting shipping. By Paul Sandle. *Reuters* [Online]. 3 March 2016. Available from: <http://uk.reuters.com/article/uk-inmarsat-results-idUKKCN0W50LP> Inmarsat (ISA.L) warned that tough trading was set to persist in its maritime and government markets this year, with the slowdown in the global economy hitting shipping, the engine for cash flow in the satellite communications group.

New Director of Maritime Safety & Standards appointed. *UK Maritime & Coastguard Agency* [Online]. 7 March 2016. Available from: <http://hmcoastguard.blogspot.co.uk/2016/03/new-director-of-maritime-safety.html> A marine surveyor with a strong background in maritime safety and standards is to take up the role of Director of Maritime Safety and Standards at the Maritime & Coastguard Agency.

The big conversation. **By Richard Meade.** *Lloyd's List* [Online]. 7 March 2016. Available from: <https://www.lloydslist.com/ll/sector/regulation/article517669.ece> Shipping's top diplomat insists that political consensus in shipping is only a conversation away.

Chemical tanker sector too complex for simple fuel efficiency metrics: IPTA. **By Unni Einemo.** *Bunkerworld* [Online]. 8 March 2016. Available from: <http://www.bunkerworld.com/news/Chemical-tanker-sector-too-complex-for-simple-fuel-efficiency-metrics-IPTA-141019> The International Parcel Tankers Association (IPTA) has warned the International Maritime Organization against "any attempt to measure operational efficiency" based on fuel consumption data for the sector.

Nigeria set to invest in shipping. **By Oluwakemi Dauda.** *The Nation (Nigeria)* [Online]. 8 March 2016. Available from: <http://thenationonlineng.net/nigeria-set-to-invest-in-shipping/> The Federal Government is set to invest heavily in shipping and regulate the maritime industry to eliminate substandard ships in the country.

European Maritime Cluster Ahoy! *Hellenic Shipping News* [Online]. 8 March 2016. Available from: <http://www.hellenicshippingnews.com/european-maritime-cluster-ahoy/> The rise of the European Network of Maritime Clusters accelerates.

China says South China Sea among world's freest shipping lanes. **By Ben Blanchard.** *Reuters* [Online]. 8 March 2016. Available from: <http://uk.reuters.com/article/uk-china-southchinasea-idUKKCN0WA0EL> The South China Sea is one of the world's freest and safest shipping lanes, Chinese Foreign Minister Wang Yi said on Tuesday, arguing that Beijing's control over the disputed waters was justified because it was the first to "discover" them.

Brexit: EU 'Leavers' Yet to Address Concerns of UK Chamber of Shipping. *Ship & Bunker* [Online]. 8 March 2016. Available from: <http://shipandbunker.com/news/emea/216198-brexit-eu-leavers-yet-to-address-concerns-of-uk-chamber-of-shipping> The UK Chamber of Shipping says supporters of a possible exit by Britain from the European Union (EU), the so-called "Brexit", have yet to adequately address their concerns.

What's for shipping in China's 13th Five-Year Plan? **By Lee Hong Liang.** *Seatrade Maritime News* [Online]. 8 March 2016. Available from: <http://www.seatrade-maritime.com/news/asia/whats-for-shipping-in-chinas-13th-five-year-plan.html> With the conclusion of the 2016 Chinese Lunar New Year and the start of the Year of the Monkey under the Chinese calendar, China has recently published the draft of its 13th Five-Year Plan (2016-2020), a blueprint for economic and social reforms and developments.

Maritime Cook Islands Enhance Registry Growth. **By Michelle Howard.** *MarineLink.Com* [Online]. 7 March 2016. Available from: <http://www.marinelink.com/news/maritime-registry-islands406253.aspx> PDMS Maritime has announced that it has been awarded a new contract to deliver its international ship registry and seafarer management platform (MARIS) to Maritime Cook Islands (MCI) Limited, the corporate administrators of the Cook Islands international ship registry.

Tor Svensen offers parting thoughts on role of class. By Bob Jaques.

Seatrade Maritime News [Online]. 9 March 2016. Available from: <http://www.seatrade-maritime.com/news/europe/tor-svensen-offers-parting-thoughts-on-role-of-class.html>

Always one of the industry's most articulate leaders, DNV GL Maritime ceo Tor Svensen took the opportunity to reflect upon the role of classification societies past and present during a press event held in London last week, just days after announcing his imminent retirement.

Seafood Slaves. Aljazeera [Online]. 9 March 2016. Available from:

<http://www.aljazeera.com/programmes/faultlines/2016/03/seafood-slaves-160308070134432.html>  Illegal fishing in Indonesian territorial waters had risen to an extreme level, but many of the Thai fishing boats responsible harboured a much worse secret aboard.

Drewry Study Warns of Diminishing Economies From Megaships.

Drewry Shipping Consultants [Online]. 9 March 2016. Available from:

<http://www.drewry.co.uk/news.php?id=457> Global shipping consultancy, Drewry, has carried out a simulation study of the operational and financial impacts on lines, terminal operators, ports and other supply chain stakeholders as vessel size increases up to and beyond 18,000 teu (twenty-foot equivalent units, the standard metric used to measure a ship's cargo carrying capacity).

Bigger ships than ever call at the Port of London as trade increases.

Port of London Authority (PLA) [Online]. 9 March 2016. Available from:

<http://www.pla.co.uk/Bigger-ships-than-ever-call-at-the-Port-of-London-as-trade-increases> The Port of London saw larger ships than ever calling last year as the tonnage of cargo handled at Thames terminals climbed to 45.4 million tonnes (up 2% on 2014).

Why a story about bulk shipping matters to the global economy. By Karishma Vaswani.

BBC News [Online]. 9 March 2016. Available from: <http://www.bbc.co.uk/news/business-35761021>  When China's economy was growing at double digits, businesses ranging from coal-mines to shipbuilding decided it was the only game in town, and that this was the only strategy worth pursuing.

SSI launches Roadmap to 2040. Sustainable Shipping Initiative (SSI) [Online]. 7 March 2016.

Available from: <http://ssi2040.org/featured/ssi-launches-roadmap-to-2040/> The Sustainable Shipping Initiative ("SSI"), a pioneering coalition of companies from across the global shipping industry, today launched its Roadmap, a set of key milestones and priorities which must be met in order to create a sustainable shipping industry by 2040. [Infographic: SSI roadmap](#) 

Amid South China Sea spat, Japan foreign aid white paper stresses importance of sea lanes. By Ayako Mie and Jesse Johnson. Japan Times [Online]. 11 March 2016.

Available from: <http://www.japantimes.co.jp/news/2016/03/11/national/politics-diplomacy/amid-south-china-sea-spat-japan-foreign-aid-white-paper-stresses-importance-sea-lanes>

The government renewed its commitment to the Association of Southeast Asian Nations in its annual report on foreign aid released Friday, with Tokyo stressing the importance of ensuring the safety of sea lanes in the region amid China's growing maritime assertiveness.

Landmark Multi-Technology Ship Retrofit Expected Slash Fuel Use By 25 Percent.

Hellenic Shipping News [Online]. 11 March 2016. Available from:

<http://www.hellenicshippingnews.com/landmark-multi-technology-ship-retrofit-expected-slash-fuel-use-by-25-percent/> Carbon War Room (CWR) announced that a collaboration between Hammonia Reederei, a Hamburg-based shipowner, and New Orleans-based charterer Intermarine, has enabled the retrofit of three sister vessels with multiple efficiency technologies.

Plumbing the Depths: Hydrographic Concerns for Modern-Day Large Vessels. *Marsh* [Online]. March 2016. Available from:

<https://www.marsh.com/uk/insights/research/hydrographic-concerns-plumbing-the-depths.html>

With the Suez Canal Axis now open and the expanded Panama Canal system soon to be complete, more mega-ships will soon be navigating parts of the world that have never before seen as many large vessels. [Report](#) 

Shippers Authority schools exporters on safety at sea. *Ghana Web* [Online].

13 March 2016. Available from:

<http://www.ghanaweb.com/GhanaHomePage/business/Shippers-Authority-schools-exporters-on-safety-at-sea-422969>

Hundreds of importers and exporters in the Upper East Region, have been trained by the Ghana Shippers' Authority about the implementation of the Safety of Life at Sea (SOLAS) convention amendment, which requires all shippers to have their containers or cargo weighed and verified before shipment.

US researchers assess LNG bunkering methane-leak risk. By Mark Corkhill.

LNG World Shipping [Online]. 11 March 2016. Available from:

<http://www.lngworldshipping.com/news/view.us-researchers-assess-lng-bunkering-methaneleak-risk-42204.htm>

As the workload of the IMO's Marine Environment Protection Committee indicates, the battle to reduce greenhouse gas (GHG) emissions from ships is heating up.

Maritime Administration Releases LNG Vessel Operations Emission Report.

US Maritime Administration (MARAD) [Online]. 11 March 2016. Available from:

http://www.marad.dot.gov/newsroom/news_release/2016/maritime-administration-releases-lng-vessel-operations-emission-report/

The Maritime Administration today announced the availability of a report that quantifies methane slip and fugitive emissions from using liquefied natural gas (LNG) for vessel operations and bunkering. [Methane Emissions from Natural Gas Bunkering Operations in the Marine Sector: A Total Fuel Cycle Approach](#) 

DNV GL Maritime ceo Knut Ørbeck-Nilssen plots the way ahead. By Bob Jaques.

Seatrade Maritime News [Online]. 11 March 2016. Available from: [http://www.seatrade-](http://www.seatrade-maritime.com/news/europe/dnv-gl-maritime-ceo-knut-orbeck-nilssen-plots-the-way-ahead.html)

[maritime.com/news/europe/dnv-gl-maritime-ceo-knut-orbeck-nilssen-plots-the-way-ahead.html](http://www.seatrade-maritime.com/news/europe/dnv-gl-maritime-ceo-knut-orbeck-nilssen-plots-the-way-ahead.html)

Safety and quality will continue to head up the DNV GL Maritime agenda under ceo Knut Ørbeck-Nilssen, who took over the position from Tor Svensen in the second half of 2015 after having served for two years as coo.

Robert Goodwill opens Maritime Knowledge Hub and tours new port terminal in Liverpool. *UK Department for Transport* [Online]. 11 March 2016. Available from:

<https://www.gov.uk/government/news/robert-goodwill-opens-maritime-knowledge-hub-and-tours-new-port-terminal-in-liverpool>

During the trip, the minister officially opened the first phase of a Maritime Knowledge Hub, developed by a partnership of private, public and academic organisations to help create skilled maritime jobs on Merseyside.

The importance of the UK's maritime industry. *UK Department for Transport* [Online].

11 March 2016. Available from: <https://www.gov.uk/government/speeches/the-importance-of-the-uks-maritime-industry>

Thank you for inviting me to speak here tonight at the Mersey Maritime Industry Awards, celebrating the fantastic achievements across the maritime industry in the Liverpool City region.

IBIA joins the Trident Alliance as strategic partner. *International Bunker Industry Association (IBIA)* [Online]. 14 March 2016. Available from: [http://ibia.net/ibia-joins-the-trident-alliance-as-](http://ibia.net/ibia-joins-the-trident-alliance-as-strategic-partner/)

[strategic-partner/](http://ibia.net/ibia-joins-the-trident-alliance-as-strategic-partner/) The introduction of the 0.50% Global Sulphur Cap is drawing near, and discussions are loud around the availability of compliant fuel and whether implementation will take place in 2020 or 2025.

Too much oil and not enough ships. By Erik Broekhuizen. *Splash 24/7* [Online].

16 March 2016. Available from: <http://splash247.com/too-much-oil-and-not-enough-ships/>

Unlike many of the other main shipping segments, such as containers and dry cargo, which are going through very challenging times, crude oil and product tankers seem to be humming along nicely, despite (or because of?) continuously falling oil prices and reports of slowing growth in China.

2015 – a challenging year for the Danish Maritime Authority. *Danish Maritime Authority*

[Online]. 15 March 2016. Available from:

<http://www.dma.dk/news/Sider/2015%E2%80%93achallengingyearfortheDanishMaritimeAuthority.aspx>

2015 was another busy year for the Danish Maritime Authority in which many results were achieved – covering a wide span from growth to safety.

Italian flag risks losing 500 ships. By Nicola Capuzzo. *Splash 24/7* [Online]. 18 March 2016.

Available from: <http://splash247.com/italian-flag-risks-losing-500-ships/> Italy is seriously risking seeing all its merchant fleet going abroad.

Despite Russian aspirations, international shippers cool on Arctic trade routes.

Platts McGraw Hill Financial [Online]. 15 March 2016. Available from:

<http://www.platts.com/latest-news/shipping/moscow/feature-despite-russian-aspirations-international-26397694>

While Russia is considering boosting cargo turnover via the Northern Sea Route (NSR) that runs across Arctic waters along the Russian coast linking Europe and Asia, a sharp decline in transit shipping via the path in the past two years indicates a loss of interest from international shippers.

'New technologies are being developed and applied faster than ever': ABS's Wiernicki.

By Sam Chambers. *Splash 24/7* [Online]. 21 March 2016. Available from:

<http://splash247.com/new-technologies-are-being-developed-and-applied-faster-than-ever-abs-wiernicki/>

The ceo of ABS has called on shipping to learn from other industries when it comes to recruitment and training, especially given the pace of change brought about by technology.

Interview: Dr Henrik Sornn-Friese - A New Agenda for the Maritime Supply Chain.

Human Rights at Sea (HRAS) [Online]. 19 March 2016. Available from:

<https://thehrasinterview.wordpress.com/2016/03/19/the-hras-interview-dr-henrik-sornn-friese-a-new-agenda-for-the-maritime-supply-chain/>

Sustainability expectations are growing in the shipping industry, and a new agenda is emerging.

WISTA Expands in the UK. *Maritime Professional* [Online]. 18 March 2016. Available from:

<http://www.maritimeprofessional.com/news/wista-expands-286849> The South East of England represents more than 20% of the UK maritime industry.

Mounting resistance. By Peter Hurme. *Lloyd's List* [Online]. 18 March 2016. Available from:

<https://www.lloydslist.com/ll/sector/containers/article520028.ece>

The wake-up call for US ports delivered by the arrival of the largest containership to be seen in North America when the 18,000 teu *CMA CGM Benjamin Franklin* docked over Christmas was also a message of sorts for shippers and forwarders.

Safety & Shipping Review 2016. *Allianz Global Corporate & Specialty* [Online].

21 March 2016. Available from: <http://www.agcs.allianz.com/insights/white-papers-and-case-studies/safety-and-shipping-review-2016/>

This review focuses on key developments in maritime safety and analyzes shipping losses (of over 100 gross tons) during the 12 months prior to

December 31, 2015. [Executive Summary](#)  [Full Report](#) 

The "Internet of Things" and piracy increasing cyber exposures. *Allianz Global Corporate & Specialty* [Online]. 21 March 2016. Available from: <http://www.agcs.allianz.com/insights/expert-risk-articles/cyber-incidents-and-piracy/> Cyber incidents in the maritime industry continue to threaten and will intensify as a result of "the internet of things" and increased digitalization.

Long-term decline in shipping losses continues but economic pressures, cyber risk and superstorms challenge safety progress. *Allianz Global Corporate & Specialty* [Online]. 21 March 2016. Available from: <http://www.agcs.allianz.com/about-us/news/safety-and-shipping-review-2016-press/> Shipping losses continued their long-term downward trend with 85 total losses reported worldwide in 2015, according to Allianz Global Corporate & Specialty SE's (AGCS) fourth annual Safety and Shipping Review 2016, which analyzes reported shipping losses of over 100 gross tons.

Advisory to Shipping: Implementation of First Draft Restriction. *Panama Canal Authority* [Online]. 21 March 2016. Available from: <https://www.pancanal.com/common/maritime/advisories/2016/a-12-2016.pdf> 

Women in Shipping: Sanjam Sahi Gupta. By Marie Paul. *CrewConnect Blog* [Online]. 15 March 2016. Available from: <http://www.crewconnectblog.com/women-shipping-sanjam-sahi-gupta/> WISTA is an international platform for women in the maritime industry to share their knowledge, experience and help encourage more women in management positions.

Real Issues In Nigeria's Maritime Development. By Samson Echenim. *Leadership (Nigeria)* [Online]. 18 March 2016. Available from: <http://leadership.ng/business/510085/real-issues-nigerias-maritime-development> As Dakuku Peterside assumed office as the director-general (DG) of the Nigeria Maritime Administration and Safety Agency (NIMASA) there is a need to help redirect the new management's focus on the real issues in the country's maritime.

Indonesia vows to prosecute Chinese trawler crew in South China Sea dispute. *The Guardian* [Online]. 24 March 2016. Available from: <http://www.theguardian.com/world/2016/mar/24/indonesia-vows-to-prosecute-chinese-trawler-crew-in-south-china-sea-dispute> Indonesia has refused Chinese demands that it release eight fishermen arrested for illegal fishing, and accused China on Wednesday of sharply raising tensions in the region by helping take back the crew's seized boat.

Clubs and IOPC Funds settle long-running rift. By Jim Mulrenan. *TradeWinds* [Online]. 24 March 2016. Available from: <http://www.tradewindsnews.com/weekly/390062/clubs-and-iopc-funds-settle-long-running-rift> An agreement that should ensure efficient handling of claims next time there is oil on a blackened beach is in prospect between the protection-and-indemnity (P&I) clubs and the International Oil Pollution Compensation (IOPC) Funds.

ICS Urges Shipping to Embrace Tech to Reduce Costs and Optimise Performance. *Ship & Bunker* [Online]. 24 March 2016. Available from: <http://shipandbunker.com/news/world/951689-ics-urges-shipping-to-embrace-tech-to-reduce-costs-and-optimise-performance> Speaking at this week's CMA 2016 shipping conference, Esben Poulsson, President of the Singapore Shipping Association and Vice Chairman of the International Chamber of Shipping (ICS), stressed the importance of using technology to increase fleet efficiency and reduce operation costs to support the shipping industry's success in the future.

Fuel for thought: The viability of LNG. *Seatrade Cruise News* [Online]. 23 March 2016. Available from: <http://www.seatrade-cruise.com/news/news-headlines/fuel-for-thought-the-viability-of-lng.html> A recent statement by a top cruise executive that 80% of cruise vessels would be LNG powered, by 2025, was the gauntlet for panelists at the Fuel for Thought session at Seatrade Cruise Global.

New low in shipping confidence. By Richard Greiner. *Moore Stephens* [Online]. 23 March 2016. Available from: <http://www.moorestephens.co.uk/news-views/march-2016/new-low-in-shipping-confidence> Overall confidence levels in the shipping industry fell to a record low in the three months to February 2016, according to the latest Shipping Confidence Survey from international accountant and shipping adviser Moore Stephens. [Shipping confidence reached its lowest level in the life of the survey](#) 

Shipping needs to retain its 'integrity' says LISCR. By Charlie Bartlett. *Seatrade Maritime News* [Online]. 23 March 2016. Available from: <http://www.seatrade-maritime.com/news/americas/shipping-needs-to-retain-its-integrity-says-liscr.html> In a worrying sign of the times a majority of maritime executives believe that integrity is "routinely compromised" in shipping deals, according to a live audience poll carried at the CMA Shipping 2016 conference this week.

CMA 2016 - Can 'smart shipping' fix a broken business model? By Barry Parker. *Seatrade Maritime News* [Online]. 29 March 2016. Available from: <http://www.seatrade-maritime.com/news/americas/cma-2016-can-smart-shipping-fix-a-broken-business-model.html> Much of the talk at the Connecticut Maritime Association's (CMA) annual conference last week could have been a reprise of the three-day event circa 1999 and 2000, when dotcoms were running wild.

Improving Connectivity in West Central African Region. By Francis Ugwoke. *This Day (Nigeria)* [Online]. 27 March 2016. Available from: <http://www.thisdaylive.com/index.php/2016/03/27/improving-connectivity-in-west-central-african-region/> With rising transport costs, poor connectivity in West and Central African sub-region, stakeholders believe the solution is for member countries to revisit their trade facilitation programmes, in addition to improvement in the area of infrastructure and adoption of fewer direct services to multiple ports as a strategy for developing a hub-spoke system for the region.

Maltese ship 'detained' in Libya en route to Malta. *Malta Today* [Online]. 26 March 2016. Available from: http://www.maltatoday.com.mt/news/national/63473/maltese_captain_detained_in_libya_after_business_deal_goes_sour Patron Group chief executive Paul Attard has denied his captain had been detained after reports that a dispute between businessmen resulted in the seizure of a cargo ship.

Unconventional wisdom on Arctic shipping. By Antoine Kedzierski. *Transport & Environment* [Online]. 25 March 2016. Available from: <https://www.transportenvironment.org/newsroom/blog/unconventional-wisdom-arctic-shipping> In this first of two blog posts, policy officer for clean shipping, Antoine Kedzierski questions the wisdom of some often-repeated statements on Arctic shipping and looks at the urgent need for decisive progress on the Polar Code.

Ship agents should be regulated. *Times of Malta* [Online]. 24 March 2016. Available from: <http://www.timesofmalta.com/articles/view/20160324/business-news/Ship-agents-should-be-regulated.606702> Ship agents should be regulated as had been suggested in a 2005 report, the Association of Ship Agents is urging.

Cindy D'Aoust Appointed As Cruise Lines International Association President and CEO.

Cruise Lines International Association (CLIA) [Online]. 14 March 2016. Available from: <http://www.cruising.org/about-the-industry/press-room/press-releases/pr/cindy-d-aoust-appointed-as-cruise-lines-international-association-president-and-ceo> Cruise Lines International Association (CLIA) has announced today that its Global Executive Committee has appointed Cindy D'Aoust as President and Chief Executive Officer effective immediately.

The top job at BP Shipping? I didn't see that coming. By Lucy Hine. *TradeWinds* [Online].

10 March 2016. Available from: <http://www.tradewindsnews.com/TWplus/388164/the-top-job-at-bp-shipping-i-didnt-see-that-coming> BP Shipping chief executive Susan Dio is a new face to many in the maritime industry.

RESEARCH

Reversal of ocean acidification enhances net coral reef calcification. By R. Albright, L. Caldeira et al. *Nature*. [Online]. (2016). Available from: <http://dx.doi.org/10.1038/nature17155>
Approximately one-quarter of the anthropogenic carbon dioxide released into the atmosphere each year is absorbed by the global oceans, causing measurable declines in surface ocean pH, carbonate ion concentration, and saturation state of carbonate minerals.

Habitat-based cetacean density models for the U.S. Atlantic and Gulf of Mexico. By J. J. Roberts, B. D. Best et al. *Scientific Reports*. [Online]. (2016). Available from: <http://dx.doi.org/10.1038/srep22615>

Ending hide and seek at sea. By D. J. McCauley, P. Woods et al. *Science*. [Online]. (2016). Available from: <http://science.sciencemag.org/content/351/6278/1148.abstract>

The long and winding road continues: Towards a new agreement on high seas governance. By Glen Wright, Julien Rochette, Elisabeth Druel, and Kristina Gjerde. *Institut Du Développement Durable Et Des Relations Internationales (IDDRI)* [Online]. 16 March 2016. Available from: http://www.iddri.org/Publications/Collections/Analyses/ST0116_GW%20et%20al._high%20seas.pdf  In 2015, States agreed to launch negotiations for the elaboration of an international legally binding instrument dedicated to the conservation and sustainable use of the marine biological diversity of areas beyond national jurisdiction (ABNJ).

Effective coverage targets for ocean protection. By B. C. O'Leary, M. Winther-Janson et al. *Conservation Letters*. [Online]. (2016). Available from: <http://dx.doi.org/10.1111/conl.12247>
We reviewed 144 studies to assess whether the UN target is adequate to achieve, maximise or optimise six environmental and/or socio-economic objectives.

Invasive species triggers a massive loss of ecosystem services through a trophic cascade. By J. R. Walsh, S. R. Carpenter et al. *Proceedings of the National Academy of Sciences*. [Online]. (2016). Available from: <http://www.pnas.org/content/early/2016/03/16/1600366113.abstract> Despite growing recognition of the importance of ecosystem services and the economic and ecological harm caused by invasive species, linkages between invasions, changes in ecosystem functioning, and in turn, provisioning of ecosystem services remain poorly documented and poorly understood.

The *Current Awareness Bulletin* (CAB) is published by the Maritime Knowledge Centre and is not an official IMO publication. Inclusion does not imply any endorsement by IMO.

Current and previous issues of CAB are archived at:
[Maritime Knowledge Centre](#)

To subscribe or unsubscribe, send an email with your contact details to:
maritimeknowledgecentre@imo.org

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.