

INTERNATIONAL MARITIME ORGANIZATION

MARITIME KNOWLEDGE CENTRE

“sharing maritime knowledge”

CURRENT AWARENESS BULLETIN

March 2017



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

UNITED NATIONS NEWS.....	3
CASUALTIES.....	4
ENVIRONMENT	8
ENVIRONMENTAL POLLUTION	11
HEALTH	13
HEALTH AND SAFETY	14
IMO	14
LAW AND POLICY	15
MARINE TECHNOLOGY.....	22
MARITIME SAFETY	25
MARITIME SECURITY	26
MARITIME TRAINING	29
MIGRANTS	32
NAVIGATION AND COMMUNICATIONS	35
PIRACY.....	36
PORT STATE CONTROL.....	39
PORTS AND HARBOURS	40
RECYCLING OF SHIPS	42
REGULATIONS	43
SALVAGE	45
SEARCH AND RESCUE	48
SHIPBUILDING AND SHIPREPAIR	49
SHIPPING	50
RESEARCH	57

IMO / UNITED NATIONS NEWS & EVENTS

WHAT'S NEW

IMO Secretary-General urges vigilance after tanker hijack

IMO Secretary-General Kitack Lim has urged the shipping industry to apply diligently IMO guidance and best management practices to avert possible piracy attacks, in the wake of the hijack of the *Aris 13*, off Puntland, Somalia.

“While we have seen a very welcome decline in piracy off Somalia since the last reported hijack by Somali pirates in 2012, the reality is that piracy off the coast of Somalia has not been eradicated and the underlying conditions have not changed. Merchant shipping should continue to take protective measures against possible piracy attacks in the Gulf of Aden and the western Indian Ocean through diligent application of IMO guidance and Best Management Practices,” Mr Lim said.

He also called upon the Federal Government of Somalia and its regional authorities in Puntland to take prompt action to ensure the safe and speedy release of the eight Sri Lankan seafarers. [Full Story: Briefing 10 - 15/03/2017](#)

IMO MEETINGS FOR 2017

Sub-Committee on Ship Systems and Equipment (SSE)

4th session, 20 – 24 March 2017

Sub-Committee on Safety of Navigation, Communication and Search and Rescue (NCSR)

4th session, 6 – 10 March 2017

IMO PRESS BRIEFINGS

Successful project to address marine bio-invasions concludes

Briefing: 11, March 27, 2017

Bangladesh ready for next phase to make ship recycling green and sustainable

Briefing: 09, March 1, 2017

IMO NEWS MAGAZINE (Spring, 2017)

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

RECENT SPEECHES BY IMO SECRETARY-GENERAL KITACK LIM

High-level Ministerial working lunch

29 March 2017, Malta

Ministerial Stakeholders Conference

28 March 2017, Malta

Sub-Committee on Ship Systems and Equipment (SSE)
4th session, 20 – 24 March 2017 ([Opening](#) address)

Panama Maritime XIII - IMO objectives for 2017

12 March 2017, Panama

Arctic Council - (Juneau, Alaska) - Polar Code developments

8 – 9 March 2017, Juneau, Alaska

Sub-Committee on Navigation, Communications and Search and Rescue (NCSR)
4th session, 6 – 10 March ([Opening](#) address)

UNITED NATIONS NEWS

Women's progress uneven and facing backlash, UN rights chief warns ahead of International Day.

UN News Centre [Online]. 7 March 2017. Available from:

<http://www.un.org/apps/news/story.asp?NewsID=56307> The United Nations human rights office today launched a joint report with the African Union and UN Women detailing the progress and challenges to women's struggle for human rights in Africa, while the UN rights chief warned that the women's movement around the world is facing a backlash that hurts both men and women.

Guterres grateful for US support as largest UN contributor; will work with Member States on reform.

UN News Centre [Online]. 16 March 2017. Available from:

<http://www.un.org/apps/news/story.asp?NewsID=56364> Secretary-General António Guterres is committed to reforming the United Nations and stands ready to discuss with the United States and any other Member State how best to create a more cost-effective Organization that can tackle the enormous challenges facing the international community, his spokesman said today.

At Security Council, UN officials urge governments to implement rules on prosecuting traffickers.

UN News Centre [Online]. 15 March 2017. Available from:

<http://www.un.org/apps/news/story.asp?NewsID=56355> Human trafficking thrives in countries where the rule of law is weak or non-existent, top United Nations officials today told the Security Council, calling on Governments to make better use of the tools created under the UN flag to stop the victimization of men, women and children.

Research shows link between temperature rise and human influence, says head of UN climate panel.

UN News Centre [Online]. 23 March 2017. Available from:

<http://www.un.org/apps/news/story.asp?NewsID=56413> Speaking today at a United Nations forum to invigorate political momentum on climate change, the head of a major UN panel on climate change underlined that human influence on the climate system cannot be disputed.


On International Day, UN chief Guterres calls on all to stand in solidarity with detained staff. *UN News Centre* [Online]. 25 March 2017. Available from: <http://www.un.org/apps/news/story.asp?NewsID=56434> On the International Day of Solidarity with Detained and Missing Staff, United Nations Secretary-General António Guterres highlighted the challenges that UN staff face and urged everyone to ensure that they have the safety they need to help those most in need around the globe.

Closing session, UN Commission agrees roadmap to women's economic empowerment. *UN News Centre* [Online]. 24 March 2017. Available from: <http://www.un.org/apps/news/story.asp?NewsID=56429> The United Nations Commission on the Status of Women today agreed on a roadmap to women's full and equal participation in the economy as a vital step to achieving sustainable development as the body concluded its two-week session.

In Senegal, UN General Assembly President calls for sustainable management of marine resources. *UN News Centre* [Online]. 28 March 2017. Available from: <http://www.un.org/apps/news/story.asp?NewsID=56450> Visiting a traditional fishing community in Senegal, the President of the United Nations General Assembly has called on the countries in the region to prioritize conserving and sustainably managing their marine resources.

UN chief confirms the remains found in DRC those of the two missing experts. *UN News Centre* [Online]. 29 March 2017. Available from: <http://www.un.org/apps/news/story.asp?NewsID=56452> United Nations Secretary-General António Guterres has confirmed the deaths of Michael Sharp and Zaida Catalan, two members of the Group of Experts on the Democratic Republic of the Congo who had been missing since 12 March, and vowed that the Organization would do "everything possible" to ensure that justice is done.

CASUALTIES

Damaged Al Khattiya vessel remains in Fujairah, residual LNG still to be removed. *By James Henderson. Seatrade Maritime News* [Online]. 2 March 2017. Available from: <http://www.seatrade-maritime.com/news/middle-east-africa/damaged-al-khattiya-vessel-remains-in-fujairah-residual-lng-still-to-be-removed.html>  **The Al Khattiya LNG carrier that was damaged in a collision earlier last week remains in Fujairah and must have a "residual" amount of LNG removed before it can be repaired.**


Accident Investigation Report 5/2017: Man overboard from scallop dredger King Challenger with loss of 1 life. *UK Marine Accident Investigation Branch (MAIB)* [Online]. 2 March 2017. Available from: <https://www.gov.uk/maib-reports/man-overboard-from-scallop-dredger-king-challenger-with-loss-of-1-life> Report on the investigation of a fatal man overboard from the scallop dredger *King Challenger* (BA 87) south-west of Scalloway, Shetland Islands on 23 June 2016. [Report](#) 

Historic Vessel Sinks in iPad-Assisted Collision. *Maritime Executive* [Online]. 1 March 2017. Available from: <http://maritime-executive.com/article/maib-historic-boat-sunk-by-ipad-assisted-collision> The UK Marine Accident Investigation Branch (MAIB) has released its report into the collision of the WWII-era training boat *Peggotty* and the ro/ro *Petunia Seaways*, and has concluded that the *Peggotty's* use of an iPad as primary means of navigation was a key factor behind the accident.

Abu Sayyaf Pirates Execute German Yachtsman. *Maritime Executive* [Online]. 28 February 2017. Available from: <http://maritime-executive.com/article/abu-sayyaf-pirates-execute-german-yachtsman> This week, the Philippines-based terrorist organization Abu Sayyaf Group (ASG) followed through on a threat to execute German yachtsman Jurgen Kantner, who was abducted from his sailboat late last year.

Inspection of Fire-Stricken Car Carrier Begins. *World Maritime News* [Online]. 2 March 2017. Available from: <http://worldmaritimeneeds.com/archives/214175/inspection-of-fire-stricken-car-carrier-begins/> Inspectors have boarded the car carrier *M/V Honor* which caught fire on the morning of February 24 after departure from Southampton, UK.

Zeebrugge ferry disaster: Services remember victims of *Herald Of Free Enterprise* tragedy on 30th anniversary. *The Telegraph* [Online]. 6 March 2017. Available from: <http://www.telegraph.co.uk/news/2017/03/06/zeebrugge-ferry-disaster-services-remember-victims-herald-free/> Families touched by the Zeebrugge ferry disaster will gather at a church service to mark the 30th anniversary of the tragedy that claimed 193 lives.

NTSB Brief: Errors in Docking Maneuver, Insufficient Oversight, Caused Cruise Ship Allision. *US National Transportation Safety Board (NTSB)* [Online]. 7 March 2017. Available from: <https://www.nts.gov/news/press-releases/Pages/PR20170307.aspx> Too much speed and too steep of an angle of approach resulted in the May 8, 2016, allision involving the cruise ship *Carnival Pride* in which more than \$2 million in property damage occurred, according to a National Transportation Safety Board marine accident brief released Tuesday. [Allision of Passenger Vessel *Carnival Pride* with Pier and Passenger Walkway: Report](#) 

Giant Wave Damages Ferry's Bridge. By John Meyers. *Maritime Executive* [Online]. 8 March 2017. Available from: <http://maritime-executive.com/article/giant-wave-damages-ferrys-bridge> In a storm off the French Riviera on Monday, a huge wave struck the ro/pax ferry *Jean Nicoli* well above the waterline, smashing through her bridge windows and disabling much of her navigational equipment.

Bulker attacked off Nigeria. By Sam Chambers. *Splash 24/7* [Online]. 10 March 2017. Available from: <http://splash247.com/bulker-attacked-off-nigeria/> A bulk carrier controlled by Paris Dragnis's Goldenport was attacked in the Gulf of Guinea yesterday morning.

Sewol Documentary Explores Role of Divers. By Wendy Laursen. *Maritime Executive* [Online]. 12 March 2017. Available from: <http://maritime-executive.com/features/sewol-documentary-explores-role-of-divers> The ferry *Sewol* sank in 2014 killing more than 300 people, mostly school students.

Cargo Ship Aground in Sweden. By Mike Schuler. *gCaptain* [Online]. 10 March 2017. Available from: <http://gcaptain.com/cargo-ship-aground-sweden/> The Swedish Maritime Administration is coordinating the salvage of general cargo ship which has run aground on the Gota River.

First victim of Coast Guard helicopter crash named as Dara Fitzpatrick. By Lorna Siggins. *Irish Times* [Online]. 14 March 2017. Available from: <http://www.irishtimes.com/news/ireland/irish-news/first-victim-of-coast-guard-helicopter-crash-named-as-dara-fitzpatrick-1.3009721> The Irish Coast Guard has confirmed that one of its most senior pilots, Capt Dara Fitzpatrick (45), died when the Dublin-based helicopter crashed off the Mayo coast on Tuesday morning.

North Korean cargo ship sinks off China, all crew rescued. By Meng Meng and James Pearson. *Reuters* [Online]. 13 March 2017. Available from: <http://www.reuters.com/article/us-china-northkorea-ship-idUSKBN16K17S> A North Korean cargo vessel called *Kum San* sank off the east coast of China early on March 9 after colliding with a Chinese fuel tanker, which rescued 27 crew members, the Ministry of Transport said in a statement on Monday.

Greek bulker gets a tow off Alaska. By Gary Dixon. *TradeWinds* [Online]. 15 March 2017. Available from: <http://www.tradewindsnews.com/casualties/1226084/greek-bulker-gets-a-tow-off-alaska> KUCB reported that the 82,000-dwt *Ecofaith G.O.* (built 2012) reached Broad Bay on Saturday after the incident last month.

Torrey Canyon oil spill: The day the sea turned black. By Bethan Bell and Mario Cacciottolo. *BBC News* [Online]. 17 March 2017. Available from: <http://www.bbc.co.uk/news/uk-england-39223308> Fifty years ago, the supertanker *SS Torrey Canyon* hit rocks off the coast of Cornwall, spilling more than 100,000 tonnes of crude oil into the English Channel.

Coast Guard to hold formal investigation hearing for *Caribbean Fantasy*. By Amy Midgett. *US Coast Guard Maritime Commons* [Online]. 16 March 2017. Available from: <http://mariners.coastguard.dodlive.mil/2017/03/16/3162017-coast-guard-to-hold-formal-investigation-hearing-for-caribbean-fantasy/> The 7th Coast Guard District in Miami announced it will conduct a public formal investigation hearing for the 561-foot Panamanian-flagged passenger/cargo ship *Caribbean Fantasy* marine casualty, which occurred on Aug. 17, 2016, and the rescue of its 511 passengers and crew members.

Rescue efforts scrambled for stricken vessel off Port St Johns. *South African Maritime Safety Authority (SAMSA)* [Online]. 16 March 2017. Available from: <https://blog.samsa.org.za/2017/03/16/rescue-efforts-scrambled-for-stricken-vessel-off-port-st-johns/> Rescue efforts have been launched by the South African Maritime Safety Authority (SAMSA) Maritime Rescue Coordinating Centre (MRCC) to assist retrieve a foreign vessel that was reportedly in distress off the eastern coast of South Africa near Port St Johns on Wednesday evening.

Torrey Canyon oil spill 1967 - in pictures. By Jane Bown. *The Guardian* [Online]. 20 March 2017. Available from: <https://www.theguardian.com/environment/gallery/2017/mar/20/torrey-canyon-oil-spill-jane-bown-1967> Fifty years ago, the supertanker *Torrey Canyon* ran aground between Land's End and the Isles of Scilly, spilling more than 100,000 tonnes of crude oil into the Channel.

Torrey Canyon disaster - the UK's worst-ever oil spill 50 years on. By Adam Vaughan. *The Guardian* [Online]. 18 March 2017. Available from: <https://www.theguardian.com/environment/2017/mar/18/torrey-canyon-disaster-uk-worst-ever-oil-spill-50th-anniversary> The ship was the *Torrey Canyon*, one of the first generation of supertankers, and it was nearing the end of a journey from Kuwait to a refinery at Milford Haven in Wales.

Torrey Canyon Disaster: Cornwall remembers devastating maritime oil spill 50 years on. By Tom Gainey. *Cornwall Live (UK)* [Online]. 17 March 2017. Available from: <http://www.cornwalllive.com/torrey-canyon-disaster-cornwall-remembers-devastating-maritime-oil-spill-50-years-on/story-30206100-detail/story.html> This weekend marks the 50th anniversary of the *Torrey Canyon* Disaster which left a notorious cultural and environmental legacy across the globe, but especially in Cornwall.

Ferry catches fire off Batangas. By Evelyn Macairan. *Philippine Star* [Online].

18 March 2017. Available from: <http://www.philstar.com/nation/2017/03/18/1682107/ferry-catches-fire-batangas> A roll-on roll-off ferry (*M/V Rina Hosanna*) with 114 passengers and crew caught fire while on its way to the Batangas port on Thursday night, the Philippine Coast Guard (PCG) reported yesterday.

Eight Dead, Seven Missing in Sinking off of Libya. *Maritime Executive* [Online].

17 March 2017. Available from: <http://maritime-executive.com/article/eight-dead-seven-missing-in-sinking-off-of-libya> Middle Eastern media sources report that eight seafarers are dead and seven missing after a Turkish-flagged cargo vessel went down about two nm off the coast of Misrata, Libya.


Two fishermen missing after collision with Russian vessel outside Barcelona.

Spanish News Today [Online]. 21 March 2017. Available from: <http://spanishnewstoday.com/two-fishermen-missing-after-collision-with-russian-vessel-outside-barcelona-87078-a.html> The collision occurred shortly after 15:00, since when a maritime rescue team on board the "*Guardamar Calíope*" have been engaged in the search for the two men.


Where We Drill, We Spill: Commemorating *Exxon Valdez*. By Franz Matzner.

Natural Resources Defense Council (NRDC) [Online]. 24 March 2017. Available from: <https://www.nrdc.org/experts/franz-matzner/where-we-drill-we-spill-exxon-valdez-memorial> Twenty eight years ago today the world experienced a massive wake-up call on the hazards and harms of oil spills when the *Exxon Valdez* oil tanker split open and poured oil into Alaskan waters.

Body Recovered from Sunken Fishing Vessel that Collided with *Midvolga 2*.

World Maritime News [Online]. 23 March 2017. Available from: <http://worldmaritimeneews.com/archives/215961/update-body-recovered-from-sunken-fishing-vessel-that-collided-with-midvolga-2/>  Spanish Maritime Safety Agency (Salvamento Marítimo) has located one of the bodies of the two missing crewmembers of the fishing vessel who went missing after their vessel collided with the Russian tanker *Midvolga 2*.

Cargo ship hits Southampton dock tearing a gash in side. By Andrew Napier.

Southern Daily Echo (UK) [Online]. 27 March 2017. Available from: http://www.dailyecho.co.uk/news/15182916.VIDEO_PHOTOS_Ship_left_with_gash_after_hitting_Southampton_dock/  An enormous 100ft-wide cargo ship encountered difficulties exiting a narrow berth in Southampton when it struck a concrete quay wall - and a gaping hole tore into its side.

Ro-pax capsizes after cargo shift. By Gary Dixon. *TradeWinds* [Online]. 27 March 2017.

Available from: <http://www.tradewindsnews.com/casualties/1232211/ro-pax-capsizes-after-cargo-shift> An investigation has started into the partial sinking of the 850-gt *Soby* (built 1966), which went down on Friday at Porto Grande in Mindelo.

Legacy of *Sewol*. By Bernard Rowan, professor of political science, Chicago State University.

Korea Times [Online]. 28 March 2017. Available from: http://m.koreatimes.co.kr/phone/news/view.jsp?req_newsidx=226542 This past week's raising of the vessel's hull marks an important moment, but that moment isn't impeaching and removing Park Geun-hye.

Vietnamese cargo ship sinks after collision with unknown vessel, 9 missing.

By Phuoc Tuan and Huu Cong. *VnExpress (Vietnam)* [Online]. 28 March 2017.

Available from: <http://e.vnexpress.net/news/news/vietnamese-cargo-ship-sinks-after-collision-with-unknown-vessel-9-missing-3561953.html> Nine Vietnamese men are missing after their cargo ship collided with an unknown vessel and sank in the waters off the country's southern coast early on Tuesday morning, search and rescue forces have reported.

Nine missing after collision sinks vessel off southern Vietnam. By Cichen Shen.

Lloyd's List [Online]. 29 March 2017. Available from: <https://www.lloydslist.com/ll/sector/ship-operations/article552720.ece> The 3,075 dwt *Hai Thanh 26-BLC*, a 2010-built general cargo carrier, sank about 44 nautical miles to the east of Vung Tau City in Ba Ria-Vung Tau province, according to local media, citing the Vietnam Maritime Search and Rescue Centre.

ENVIRONMENT

From 'Spice Isle' to 'blue innovation' hub: Grenada's vision for the future. By Gail Hurley, Policy Specialist: Development Finance, Bureau for Policy and Programme Support, UNDP. *United Nations Development Programme (UNDP)* [Online]. 1 March 2017.

Available from: <http://www.undp.org/content/undp/en/home/blog/2017/3/1/From-Spice-Isle-to-Blue-Innovation-hub-Grenada-s-vision-for-the-future.html> The Caribbean country of Grenada, known by many as 'Spice Isle' for its production of nutmeg, cloves and other exotic spices is now setting its sights on being known as a world leader for innovation in the 'blue economy'.

Our emergency resources and action safeguarded the environment.

By Marianne Henriksen. *Norwegian Coastal Administration* [Online]. 28 February 2017.

Available from: <http://www.kystverket.no/en/News/emergency-resources-and-action-safeguarded-the-environment/> The vessel "*Tide Carrier*" had developed engine problems and was drifting towards the beaches close to Feistein lighthouse.

Ocean acidification. By Karen B. Roberts. *University of Delaware (US)* [Online].

27 February 2017. Available from: <http://www.udel.edu/udaily/2017/february/arctic-acidification/> Ocean acidification (OA) is spreading rapidly in the western Arctic Ocean in both area and depth, according to new interdisciplinary research reported in *Nature Climate Change* by a team of international collaborators, including University of Delaware professor Wei-Jun Cai. [Increase in acidifying water in the western Arctic Ocean](#)

World Ocean Summit Highlights Financing of Blue Economy, UN Marine Litter Campaign.

By Elsa Tsioumani. *International Institute for Sustainable Development (IISD)* [Online].

2 March 2017. Available from: <http://sdg.iisd.org/news/world-ocean-summit-highlights-financing-of-blue-economy-un-marine-litter-campaign/> Organized by the Economist under the theme, 'Financing the Sustainable Ocean Economy,' the World Ocean Summit 2017 brought together policy-makers, business leaders, scientists and ocean advocates for a dialogue on financing the blue economy, mobilizing sustainable investments in the ocean, integrating ocean uses and creating a holistic governance system.

How disappearing sea ice has put Arctic ecosystem under threat. By Robin McKie.

The Guardian [Online]. 4 March 2017. Available from:

<https://www.theguardian.com/world/2017/mar/04/arctic-ecosystem-ice-disappear-ecosystem-polar-bears-fish> In a few days the Arctic's beleaguered sea ice cover is likely to set another grim record.

Arctic sea ice may vanish even if world achieves climate goal - study. By Alister Doyle. *Reuters* [Online]. 6 March 2017. Available from: <http://in.reuters.com/article/climatechange-arctic-idINKBN16D27Z> Arctic sea ice may vanish in summers this century even if governments achieve a core target for limiting global warming set by almost 200 nations in 2015, scientists said on Monday.

Climate change being tackled by maritime sector. *Trinidad and Tobago Newsday* [Online]. 9 March 2017. Available from: <http://www.newsday.co.tt/news/0,240790.html> The maritime sector has to make a fair and just contribution to the fight against climate change, according to Arend Biesebroek, Ambassador of the European Union Delegation to Trinidad and Tobago.

Kirstie Hudson. *Canadian Broadcasting Corporation (CBC)* [Online]. 8 March 2017. Available from: <http://www.cbc.ca/news/canada/british-columbia/underwater-robots-map-grey-whale-habitat-off-vancouver-island-1.4013947> Three underwater robots spent weeks listening to grey whales off the west coast of Vancouver Island last month, so scientists can learn more about what the whales are doing in northern waters.

Australia sees second year of Barrier Reef bleaching. By Glenda Kwek. *Phys Org* [Online]. 10 March 2017. Available from: <https://phys.org/news/2017-03-australia-year-barrier-reef.html> Australia's Great Barrier Reef is experiencing an unprecedented second straight year of mass coral bleaching, scientists said Friday, warning many species would struggle to fully recover.

Scientists predict whale paths to reduce collision risks with large ships. By Dene Moore. *Globe and Mail (Canada)* [Online]. 12 March 2017. Available from: <http://www.theglobeandmail.com/news/british-columbia/scientists-predict-whale-paths-to-reduce-collision-risks-with-large-ships/article34277732/> But the greatest threat to the whales that ply the Pacific Ocean is the increasing vessel traffic that traverses what has become a marine superhighway.


Turkey to perform deep-sea drilling in Mediterranean, Black Sea. *Daily Sabah (Turkey)* [Online]. 10 March 2017. Available from: <https://www.dailysabah.com/energy/2017/03/10/turkey-to-perform-deep-sea-drilling-in-mediterranean-black-sea> Speaking at an important energy conference, Energy Minister Berat Albayrak announced that Turkey will accelerate its upstream activities in the Mediterranean and execute deep-sea drilling both in the Mediterranean and Black Sea with a view to becoming a major energy player in the region

Luhut to Summon British Ambassador over Coral Reef Incident. By Mitra Tarigan. *Tempo (Indonesia)* [Online]. 15 March 2017. Available from: <https://en.tempo.co/read/news/2017/03/15/055856327/Luhut-to-Summon-British-Ambassador-over-Coral-Reef-Incident> Coordinating Maritime Affairs Minister Luhut Binsar Pandjaitan said that he will summon the British Ambassador to Indonesia on Thursday, March 16, 2017, in relation to the damage caused by British-flagged cruise ship *MV Caledonian Sky* to coral reefs in Raja Ampat, Papua.

Fijian PM calls on Pacific to raise a unified voice on climate change. *Pasifik (Vanuatu)* [Online]. 17 March 2017. Available from: <https://pasifik.news/fijian-pm-calls-pacific-raise-unified-voice-climate-change/> Fijian Prime Minister Voreqe Bainimarama has called on Pacific nations to raise a unified voice on the issue of climate change and ocean saying that the lives of hundreds of millions of people in vulnerable parts of the world depends on it.

50 years needed to restore Raja Ampat coral reef destroyed by cruise ship: Indonesian minister. By Wahyudi Soeriaatmadja. *Straits Times* [Online]. 17 March 2017. Available from: <http://www.straitstimes.com/asia/se-asia/50-years-needed-to-restore-raja-ampat-coral-reef-destroyed-by-cruise-ship-indonesian> It will take 50 to 100 years for the Raja Ampat coral reef destroyed by a British cruise ship to be restored, Indonesia's Coordinating Minister for Maritime Affairs Luhut Pandjaitan told reporters on Friday (March 17).

Stopping global warming is only way to save Great Barrier Reef, scientists warn. By Joshua Robertson. *The Guardian* [Online]. 15 March 2017. Available from: <https://www.theguardian.com/environment/2017/mar/15/stopping-global-warming-is-only-way-to-save-great-barrier-reef-scientists-warn> The survival of the Great Barrier Reef hinges on urgent moves to cut global warming because nothing else will protect coral from the coming cycle of mass bleaching events, new research has found.

Climate breaks multiple records in 2016, with global impacts. *World Meteorological Organization (WMO)* [Online]. 21 March 2017. Available from: <https://public.wmo.int/en/media/press-release/climate-breaks-multiple-records-2016-global-impacts> The year 2016 made history, with a record global temperature, exceptionally low sea ice, and unabated sea level rise and ocean heat, according to the World Meteorological Organization (WMO). [WMO Statement on the State of the Global Climate in 2016](#) 

On front line of climate change as Maldives fights rising seas. By Nenad Jaric Dauenhauer. *New Scientist* [Online]. 20 March 2017. Available from: <https://www.newscientist.com/article/2125198-on-front-line-of-climate-change-as-maldives-fights-rising-seas/> White sand circles picked out by the sun in sparkling blue seas are the first signs that my plane has arrived at the Maldives, a tropical paradise spread over almost 1200 islands.

Launch of Global Ocean Data Initiative. *Norwegian Shipowners' Association* [Online]. 28 March 2017. Available from: <https://www.rederi.no/en/aktuelt/2017/global-ocean-data-initiative-gir-havdata-til-forskning/> Since 1991 the marine geophysical company PGS has acquired seismic data of the ocean subsurface worldwide, which oil companies use to find oil and gas reserves.

Towards a Global Solution for High Seas Conservation. *Pew Charitable Trusts* [Online]. 27 March 2017. Available from: <http://www.pewtrusts.org/en/research-and-analysis/fact-sheets/2017/03/towards-a-global-solution-for-high-seas-conservation> In June 2015, world leaders made the extraordinary decision to develop an international agreement on the conservation and sustainable use of marine biodiversity of areas beyond national jurisdiction, including the high seas.


Maersk Line partners with AkzoNobel to drive sustainability. *AkzoNobel* [Online]. 28 March 2017. Available from: <https://www.akzonobel.com/for-media/media-releases-and-features/maersk-line-partners-akzonobel-drive-sustainability> AkzoNobel and leading global container shipping company Maersk Line have signed a strategic sustainability partnership to reduce carbon emissions per container shipped by 10%.

Digging deep: the new seafloor industry. *The Motorship* [Online]. 27 March 2017. Available from: <http://www.motorship.com/news101/industry-news/digging-deep-the-new-seafloor-industry> Minerals on and beneath the seabed may represent the next great bounty of the ocean, but retrieving them can be a daunting challenge.

Just three EU countries step up to the plate for Paris climate deal – ranking.

Transport & Environment [Online]. 28 March 2017. Available from:

<https://www.transportenvironment.org/press/just-three-eu-countries-step-plate-paris-climate-deal-%E2%80%93-ranking> Only three countries in Europe are on the right track to deliver on the Paris climate agreement, a new ranking published today reveals.

[EU Climate Leader Board](#) 

Poor outlook for biodiversity in Antarctica: study finds. By Silvia Dropulich.

Monash University (Australia) [Online]. 28 March 2017. Available from:

<http://monashsciencenews.blogspot.co.uk/2017/03/poor-outlook-for-biodiversity-in.html>

An international study led by Monash scientists has debunked the popular view that Antarctica and the Southern Ocean are in a much better environmental shape than the rest of the world.

Developments in the United States, By Executive Secretary Patricia Espinosa.

United Nations Framework Convention on Climate Change (UNFCCC) [Online]. 31 March 2017.

Available from: <http://newsroom.unfccc.int/unfccc-newsroom/developments-in-the-united-states-by-executive-secretary-patricia-espinosa/> The new US administration announced this week that it will be reviewing America's Clean Power Plan, domestic legislation brought in by the previous administration in 2015 aimed at reducing US power sector emissions and increasing renewable energy production.

Ivorian minister underlines need to protect coastal, marine environment. *EnviroNews*

Nigeria [Online]. 31 March 2017. Available from: <http://www.environewsigeria.com/ivorian-minister-underlines-need-protect-coastal-marine-environment/>

The Minister of Sanitation, Environment and Sustainable Development of Côte d'Ivoire has called on African states to put value to the coastal and marine environment as it provides multiple benefits to people.

European Commission secures 10-year pledge to save Mediterranean fish stocks.

European Commission [Online]. 30 March 2017. Available from: http://europa.eu/rapid/press-release_IP-17-770_en.htm Following months of negotiations, the European Commission has secured today a 10-year pledge to save the Mediterranean fish stocks and protect the region's ecological and economic wealth.


ENVIRONMENTAL POLLUTION

French Authorities Ask Maersk to Monitor PSV Wrecks. *Maritime Executive* [Online].

2 March 2017. Available from: <http://www.maritime-executive.com/article/french-authorities-ask-maersk-to-monitor-psv-wrecks> French coast guard agency Prefecture Maritime Atlantique has asked Maersk Supply Service to continue to investigate the risk of pollution from two platform supply vessels that went down in the English Channel last year.

Sponge can soak up and release spilled oil hundreds of times. By Carolyn Wilke.

New Scientist [Online]. 6 March 2017. Available from:

<https://www.newscientist.com/article/2123391-sponge-can-soak-up-and-release-spilled-oil-hundreds-of-times/> 

A new material can absorb up to 90 times its own weight in spilled oil and then be squeezed out like a sponge and reused, raising hopes for easier clean-up of oil spill sites.

The cost of a polluted environment: 1.7 million child deaths a year, says WHO.

World Health Organization (WHO) [Online]. 6 March 2017. Available from:

<http://www.who.int/mediacentre/news/releases/2017/pollution-child-death/en/> Every year, environmental risks – such as indoor and outdoor air pollution, second-hand smoke, unsafe water, lack of sanitation, and inadequate hygiene – take the lives of 1.7 million children under 5 years, say two new WHO reports.

Cruise holidays: who is leading the fleet for sustainable sea travel? By Sarah Shearman.

The Guardian [Online]. 9 March 2017. Available from:

<https://www.theguardian.com/sustainable-business/2017/mar/09/sustainable-sea-travel-cruise-holidays-shipping-air-pollution-renewables-biofuels> Not many of the 25 million people enjoying the sea breeze on a cruise ship this year are likely to think about the air pollutants being emitted from the vessel.

'Air quality readings needed in the docks'. *Southern Daily Echo (UK)* [Online]. 8 March 2017.

Available from:

[http://www.dailyecho.co.uk/yoursay/letters/15142174. Air quality readings needed in the docks/](http://www.dailyecho.co.uk/yoursay/letters/15142174. Air%20quality%20readings%20needed%20in%20the%20docks/) I was amazed to hear that over the last few years, when we have had air tests around the city, that unbelievably we have not had one in the docks where ships are on 24/7 with enormously large diesel engines.

ETI announces details of waste heat recovery project which could help to cut emissions and fuel consumption in shipping. *Energy Technologies Institute (ETI)* [Online].

9 March 2017. Available from: <http://www.eti.co.uk/news/eti-announces-details-of-waste-heat-recovery-project-which-could-help-to-cut-emissions-and-fuel-consumption-in-shipping> The ETI has launched a new project which aims to develop and demonstrate a Waste Heat Recovery System for ships that could deliver fuel efficiency savings of at least 8%.

Alarming levels in exhaust measurements on board the *AIDA Prima*.

NABU (Nature and Biodiversity Conservation Union) [Online]. 8 March 2017. Available from:

<https://en.nabu.de/news/2017/22109.html> Covert exhaust measurements conducted by the ARD consumer TV show "Plusminus" expose the "showcase ship" of the AIDA Cruises fleet of ships as a true polluter.

Foul play - *DL Marigold* and the perils of a dirty bottom. By Michael Grey.

Seatrade Maritime News [Online]. 14 March 2017. Available from: <http://www.seatrade-maritime.com/news/asia/foul-play-dl-marigold-and-the-perils-of-a-dirty-bottom.html>


It seemed a bit of a joke in the press, as they reported that a bulk carrier had been asked to leave New Zealand waters because of a dirty bottom.

Quantum Of Oil Spill On Chennai Coast, Remains A Mystery. By Laasya Shekhar.

Deccan Chronicle (India) [Online]. 14 March 2017. Available from:

<http://www.deccanchronicle.com/nation/current-affairs/140317/ngt-directive-to-two-ships-involved-in-ennore-oil-spill.html> Controversy continues to prevail in Chennai oil spill issue, as government departments differ over the volume of the leak.

Harm caused by Marine Litter. *European Commission* [Online]. March 2017. Available from:

<https://ec.europa.eu/jrc/en/publication/harm-caused-marine-litter> Marine litter is a global concern with a range of problems associated to it, as recognised by the Marine Strategy Framework Directive (MSFD). [Harm caused by Marine Litter: Technical Report](#) 

Cornwall's coastline 'needs emergency towing vessel protection'. By David Barnicoat.

Falmouth Packet (UK) [Online]. 23 March 2017. Available from:

http://www.falmouthpacket.co.uk/in_port/15176539.Cornwall_s_coastline_39_needs_emergency_towing_vessel_protection_39/ Fifty years ago the tanker Torrey Canyon struck the Seven Stones reef off Lands End unleashing its environmentally deadly cargo of crude oil with devastating effect on the Cornish coastline.

DL Marigold's Hull Being Cleaned Offshore. *Maritime Executive* [Online]. 22 March 2017.

Available from: <http://maritime-executive.com/article/dl-marigolds-hull-being-cleaned-offshore>

The bulk carrier *DL Marigold* was ordered from both New Zealand and Fijian waters earlier this month for being an invasive species threat.

Norwegian government to spend millions removing litter from sea. *The Local (Norway)*

[Online]. 24 March 2017. Available from: [https://www.thelocal.no/20170324/norwegian-](https://www.thelocal.no/20170324/norwegian-government-to-spend-millions-removing-plastic-from-sea)

[government-to-spend-millions-removing-plastic-from-sea](https://www.thelocal.no/20170324/norwegian-government-to-spend-millions-removing-plastic-from-sea) Prime Minister Erna Solberg on Friday launched the country's new research vessel, the *Dr. Fridtjof Nansen*, which will participate in government aid programmes aimed at renewable use of the ocean's resources.

Get the world's dirtiest shipping fuel out of the Arctic. By Tagak Curley.

Nunatsiaq News Online (Canada) [Online]. 28 March 2017. Available from:

<http://www.nunatsiaqonline.ca/stories/article/65674get-the-worlds-dirtiest-shipping-fuel-out-of-the-arctic/> For hundreds of years, national and international policies have shaped the Arctic from whaling to the fur trade, from territorial laws to statehood.

Litter is present throughout the world's oceans: 1,220 species affected. *Alfred-Wegener-*

Institut (Germany) [Online]. 23 March 2017. Available from: [https://www.awi.de/nc/en/about-](https://www.awi.de/nc/en/about-us/service/press/press-release/muell-in-den-weltmeeren-ueberall-praesent-1220-arten-betroffen.html)

[us/service/press/press-release/muell-in-den-weltmeeren-ueberall-praesent-1220-arten-betroffen.html](https://www.awi.de/nc/en/about-us/service/press/press-release/muell-in-den-weltmeeren-ueberall-praesent-1220-arten-betroffen.html) Researchers at the Alfred Wegener Institute have for the first time compiled all scientific data published on marine litter in a single, comprehensive database, now accessible from the online portal AWI Litterbase (www.litterbase.org).

Our plastic addiction threatens global fish stocks — Q&A with the International Oceans Institute. *United Nations Conference on Trade and Development (UNCTAD)* [Online].

30 March 2017. Available from:

<http://unctad.org/en/pages/newsdetails.aspx?OriginalVersionID=1457> How does our love for plastic jeopardize global fisheries? During the Oceans Forum held in Geneva on 21 and 22 March, we sat down with Awni Behnam, the honorary president of the International Ocean Institute, and Antonella Vassallo, its managing director, to find out.

HEALTH

Nautilus and Martek launch Maritime Health Care. *Nautilus International* [Online].

1 March 2017. Available from: [https://nautilusint.org/en/what-we-say/nautilus-news/nautilus-](https://nautilusint.org/en/what-we-say/nautilus-news/nautilus-and-martek-launch-maritime-healthcare-survey/)

[and-martek-launch-maritime-healthcare-survey/](https://nautilusint.org/en/what-we-say/nautilus-news/nautilus-and-martek-launch-maritime-healthcare-survey/) Nautilus International has teamed up with global maritime technology innovator Martek Marine to launch a first-of-its-kind survey exploring the provision and effectiveness of healthcare services onboard seafaring vessels.

Crew Health: Malaria prevention. *Shipowners' Club* [Online]. 17 March 2017. Available from:

<https://www.shipownersclub.com/crew-health-malaria-prevention/> The Club previously released a bulletin informing Members of the precautionary measures that can be taken to avoid the contraction of malaria on board merchant ships.

Dirty ships are killing our citizens: it's time for the EU to act. By Faig Abbasov, Aviation and Shipping Officer, Transport & Environment. *Huffington Post* [Online]. 27 March 2017. Available from: http://www.huffingtonpost.com/entry/dirty-ships-are-killing-our-citizens-its-time-for-us_58d8c4bde4b0c0980ac0e7c8 In little over a year the UN's International Maritime Organisation (IMO) needs to get its act together and deliver an interim plan to cut shipping's carbon footprint.

HEALTH AND SAFETY

Irish naval officer recalls trauma of rescuing migrants from the Mediterranean.

By Iag Begley. *Independent (Ireland)* [Online]. 2 March 2017. Available from:

<http://www.independent.ie/world-news/irish-naval-officer-recalls-trauma-of-rescuing-migrants-from-the-mediterranean-35495709.html>

An Irish naval officer who has helped more than a thousand migrants from the Mediterranean Sea held back tears as she described the rescue of a toddler after a dangerous journey which her mother didn't survive.

New safety angles. By Dave MacIntyre. *Port Strategy* [Online]. 6 March 2017. Available from:

<http://www.portstrategy.com/news101/port-operations/cargo-handling/port-strategy-march-issue-operations-safety>

Protections for women in the port workplace, new rules for working in automated terminals and "human rights" issues such as guarding against the spread of communicable diseases are among the new measures to be introduced in the revised Code of Practice on Safety and Health in Ports.

IMO

EU and IMO mull vessel data collection alignment. By Anastassios Adamopoulos.

Lloyd's List [Online]. 1 March 2017. Available from:

<https://www.lloydslist.com/ll/sector/regulation/article550874.ece>

International Maritime Organization secretary-general Kitack Lim and European commissioner for transport Violeta Bulc discussed potentially aligning the European Union's monitoring, reporting and verification system (MRV) with that of the IMO, commission sources told Lloyd's List.

Interview with Edmund Hughes, IMO. *Green4Sea* [Online]. 2 March 2017. Available from:

<http://www.green4sea.com/interview-edmund-hughes-imo/>

Dr. Edmund Hughes, Head of Air Pollution and Energy Efficiency, Marine Environment Division of International Maritime Organization (IMO), talks about IMO's efforts to combat GHG emissions from shipping, highlighting that industry needs to continue to support the Organization in formulating global regulations towards a more sustainable future.

Shipping emissions: EU vs IMO? By Eva Grey. *Ship-Technology.Com* [Online].

7 March 2017. Available from: <http://www.ship-technology.com/features/featureshipping-emissions-eu-vs-imo-5753670/>

In February, the European Parliament voted to include CO₂ from shipping in its Emission Trading Scheme, a controversial move which many accused of undermining the efforts of the International Maritime Organization.

A year at the helm. By Kitack Lim, Secretary-General, International Maritime Organization.

Pan European Networks [Online]. 6 March 2017. Available from:

<http://www.paneuropeannetworks.com/government/a-year-at-the-helm/>

The International Maritime Organization (IMO) is a United Nations specialised agency aiming to promote safe, secure, environmentally sound, efficient and sustainable shipping through the adoption of the highest practicable standards of maritime safety and security, efficiency of navigation, and the prevention and control of pollution from ships.

International ships decry Tanzania's delayed ratification of IMO laws. By Issa Yussuf. *Daily News (Tanzania)* [Online]. 6 March 2017. Available from: <http://dailynews.co.tz/index.php/home-news/48959-international-ships-decry-tanzania-s-delayed-ratification-of-imo-laws> Tanzania's delayed ratification of the International Maritime Organisation (IMO) laws has affected shipping business of international vessels flying the country's flag.

Korea to take the lead on IMO's Voyage-Together initiative. By Wei Zhe Tan. *Lloyd's List* [Online]. 10 March 2017. Available from: <https://www.lloydslist.com/ll/sector/containers/article551535.ece> The project was introduced by IMO secretary-general Kitack Lim while he was campaigning for the position in 2015 and called for safety and security in maritime navigation and other operations, the mutual growth of member states and the provision of training opportunities for member states to raise awareness of maritime safety, said the Ministry of Oceans and Fisheries.

Specifying the true cost of shipping to the environment. *Green4Sea* [Online]. 20 March 2017. Available from: <http://www.green4sea.com/specifying-the-true-cost-of-shipping-to-the-environment/> IMO's Lee Adamson spoke with a CNN's programme to share key facts about IMO's efforts in tackling GHG emissions from ships.

LAW AND POLICY

Nigeria hosts Africa as AAMA beckons. *Guardian (Nigeria)* [Online]. 1 March 2017. Available from: <http://guardian.ng/business-services/maritime/nigeria-hosts-africa-as-aama-beckons/> In a bid to continue to improve on its role as a global player in the comity of maritime nations, Nigeria would be hosting the 3rd Conference of the Association of Heads of African Maritime Administrations (AAMA Conference) in Abuja, at the Transcorp Hilton Hotel, from 19th -21st of April, 2017.

Revision of the emissions trading system: Council agrees its position. *European Council* [Online]. 28 February 2017. Available from: <http://www.consilium.europa.eu/en/press/press-releases/2017/02/28-ets-revision/> On 28 February the Council agreed its negotiating position (general approach) for the review of the emission trading system (ETS).

EU ministers likely to oppose EU carbon market regulation of shipping. By James Crisp. *EurActiv* [Online]. 28 February 2017. Available from: <http://www.euractiv.com/section/cybersecurity/news/eu-ministers-likely-to-oppose-eu-carbon-market-regulation-of-shipping/> Environment ministers are meeting in Brussels today (28 February) and are expected to adopt a general approach on the post-2020 revisions to the Emissions Trading System (ETS) by this evening.

Malta with a firm commitment to highlight the importance of maritime transport policy. *Government of Malta* [Online]. 28 February 2017. Available from: <http://www.goo.gl/Ph7aw2h> During the European Shipping Week being held in Brussels this week, Minister for Transport and Infrastructure Joe Mizzi highlighted the fact that the year 2017 will be remembered not only for showcasing the EU maritime transport industry, but also for bringing to the fore the importance of the maritime sector and the added value that it brings to the European economy.

Secret illegal fishing mission off Liberian coast nets 3 boats. *African Times* [Online]. 28 February 2017. Available from: <http://africatimes.com/2017/02/28/secret-illegal-fishing-mission-off-liberian-coast-nets-3-boats/> The Liberian government has partnered with an environmental group to launch a new effort at curbing illegal, unreported and unregulated (IUU) fishing – and so far, they've made arrests on three poaching vehicles.

European Commission and China hold High Level Dialogue on ocean affairs.

European Commission [Online]. 2 March 2017. Available from: http://europa.eu/rapid/press-release_STATEMENT-17-427_en.htm European Commissioner for Environment, Maritime Affairs and Fisheries, Karmenu Vella, and Administrator Hong Wang of the Chinese State Oceanic Administration took part in the third EU-China High Level Dialogue on Ocean Affairs today.

EU must debate strategic maritime reorientation. By Olaf Merk, OECD. *Splash 24/7*

[Online]. 2 March 2017. Available from: <http://splash247.com/eu-must-debate-strategic-maritime-reorientation/> Who better than Olaf Merk from the OECD to ruminate on what the EU needs to do with its maritime transport system?

Industry welcomes French government call for more socially sustainable fisheries policies. *Europêche (Association of National Organizations of Fishing Enterprises in the European Union)*

[Online]. 1 March 2017. Available from: <http://europeche.chil.me/post/132156/industry-welcomes-french-government-call-for-more-socially-sustainable-fisheries> Yesterday, 28 February 2017, during a seminar organised by the European Transport Workers' Federation (ETF) in the framework of the European Shipping Week, Thierry Coquil, Director for Maritime Affairs in the French administration, delivered a message of the French Secretary of State for Transport Alain Vidalies, which also included concerns on fisheries.

Turkish tanker seized in Libya. By Gary Dixon. *TradeWinds*

[Online]. 3 March 2017. Available from: <http://www.tradewindsnews.com/tankers/1221114/turkish-tanker-seized-in-libya> Eleven crew on the 2,800-dwt *Haci Tell* (built 2006) have been detained in Zuwara, local reports say.

Indonesia dedicates \$1 billion per year to fight ocean waste. *Climate Action*

[Online]. 2 March 2017. Available from: <http://www.climateactionprogramme.org/news/indonesia-dedicates-1-billion-per-year-to-fight-ocean-waste> Indonesia will allocate up to \$1 billion annually to curb waste products polluting its oceans.

Eight years after the AMSA. By Center for Arctic Policy Studies and Faculty International Arctic Research Center at the University of Alaska Lawson W. Brigham. *Arctic Journal*

[Online]. 2 March 2017. Available from: <http://www.thearcticjournal.com/opinion/2954/eight-years-after-amsa> The Arctic Marine Shipping Assessment remains a key Arctic Council framework for protecting the region's communities and the marine environment.

IORA diplomacy to back up vision of maritime axis: Retno Marsudi. *Antara News (Indonesia)*

[Online]. 3 March 2017. Available from: <http://www.antaraneews.com/en/news/109736/iora-diplomacy-to-back-up-vision-of-maritime-axis-retno-marsudi> Foreign Minister Retno LP Marsudi said the maritime diplomacy through the Indian Ocean Rim Association (IORA) is aimed at promoting the Indonesian vision of maritime axis.

Dirty vessel ordered to leave New Zealand. *Government of New Zealand*

[Online]. 7 March 2017. Available from: <http://mpi.govt.nz/news-and-resources/media-releases/dirty-vessel-ordered-to-leave-new-zealand/> A dirty vessel ordered to leave Tauranga in the weekend will have to be thoroughly cleaned before it can re-enter New Zealand waters, says the Ministry for Primary Industries.

Deep cuts to environmental research in Trump's budget proposal. By Chelsea Whyte.

New Scientist [Online]. 6 March 2017. Available from:

<https://www.newscientist.com/article/2123641-deep-cuts-to-environmental-research-in-trumps-budget-proposal/> This is the first step in a long budgeting process so these numbers aren't final, but they are a clear indication of the value the Trump Administration places on science-based policy.

New U.S. Executive Order issued on immigration: Potential impact on vessels crews.

Freehill Hogan & Mahar LLP [Online]. 6 March 2017. Available from:

[http://www.freehill.com/wp-content/uploads/2017/03/NYDOCS1-463899-v1-](http://www.freehill.com/wp-content/uploads/2017/03/NYDOCS1-463899-v1-Client_Alert_on_New_Immigration_E_O_.pdf)

[Client_Alert_on_New_Immigration_E_O_.pdf](#) As reported in our Client Alerts of January 30th and February 10th, Executive Order ("E.O.") 13769 issued by President Trump on January 27, 2017, and entitled "Protecting the Nation From Foreign Terrorist Entry Into the United States", banned for 90 days any immigrant or non-immigrant entry into the U.S. of foreign citizens from Iran, Iraq, Libya, Somalia, Sudan, Syria and Yemen, and would have impacted vessels with crewmembers from those countries.

Shipping firm, captain sentenced in maritime pollution case with Charleston ties.

By David Wren. *Post and Courier (US)* [Online]. 6 March 2017. Available from:

http://www.postandcourier.com/business/shipping-firm-captain-sentenced-in-maritime-pollution-case-with-charleston/article_6e829776-0293-11e7-8b78-d338c136afdb.html The former captain of a chemical tanker at the center of a federal pollution case in Charleston will be allowed to return to his home in the Philippines after a judge on Monday sentenced him to time served for obstructing a criminal investigation into the matter.

Governments to carefully weigh up shipping ETS 'insurance policy'.

Transport & Environment [Online]. 8 March 2017. Available from:

<https://www.transportenvironment.org/news/governments-carefully-weigh-shipping-ets-%E2%80%99insurance-policy%E2%80%99> MEPs' proposal to include shipping in the EU emissions trading system (ETS) from 2023, if the International Maritime Organisation (IMO) fails to agree a global measure to reduce shipping emissions, should be a wake-up call for the UN agency, a senior European Commission official has said.

Philippines to propose joint patrols vs. Abu Sayyaf, pirates. By Roel Pareño.

Philippine Star [Online]. 8 March 2017. Available from:

<http://www.philstar.com/headlines/2017/03/08/1679177/philippines-propose-joint-patrols-vs.-abu-sayyaf-pirates> Defense and security officials plan to push for a multinational task force to end cross-border kidnappings by the Abu Sayyaf group.

Ban in : Vietnam shares experience in oil spill preparedness and response.

Vietnam Breaking News (VBN) [Online]. 8 March 2017. Available from:

<https://m.vietnambreakingnews.com/2017/03/ban-in-vietnam-shares-experience-in-oil-spill-preparedness-and-response/> Vietnam has shared its experience in oil spill preparedness and response, highlighting the importance of developing oil spill contingency plans at provincial and local levels along the need to develop local government capacities in this field.

Caribbean Gearing Up For Marine Resources Treaty. By Desmond Brown.

Caribbean News Service [Online]. 9 March 2017. Available from:

<http://caribbeannewsservice.com/now/caribbean-gearing-up-for-marine-resources-treaty/>

The countries of the Caribbean Community (CARICOM) have been fine-tuning their positions ahead of the next United Nations preparatory meeting to establish an international legally-binding agreement on sustainable use of marine resources.

Indian Ocean Rim Association Concludes First-Ever Leaders' Summit. By Ankit Panda. *The Diplomat* [Online]. 8 March 2017. Available from: <http://thediplomat.com/2017/03/indian-ocean-rim-association-concludes-first-ever-leaders-summit/> For the first time, leaders of the Indian Ocean Rim Association (IORA) are meeting in Jakarta, Indonesia, for a summit.

EMSA issues review of its oil spill response services. *Green4Sea* [Online]. 8 March 2017. Available from: <http://www.green4sea.com/emsa-issues-review-oil-spill-response-services/> European Maritime Safety Agency (EMSA) issued an updated report, assessing the drills and exercises conducted during 2016 on oil pollution response.

Drills & Exercises: Annual Report 2016: EMSA Pollution Response Services. *European Maritime Safety Agency (EMSA)* [Online]. 2 March 2017. Available from: http://www.green4sea.com/wp-content/uploads/2017/03/EMSA-Drills-and-Exercises-annual-report-2016-2017_03.pdf In order to provide additional support to the EU Member States' pollution response mechanisms in a cost efficient way, the European Maritime Safety Agency (EMSA) operates, in European waters, a range of oil pollution response (OPR) services consisting of a Network of stand-by oil spill response vessels, the Equipment Assistance Service (EAS) including specialised stand-alone equipment arrangements, as well as dispersant stockpiles.

New Zealand lags behind in international shipping law. *Victoria University of Wellington (New Zealand)* [Online]. 13 March 2017. Available from: <http://www.victoria.ac.nz/news/2017/03/new-zealand-lags-behind-in-international-shipping-law> Research from Victoria University of Wellington's Faculty of Law reveals New Zealand is lagging behind when it comes to international laws around ship emissions and air pollution.

Gov't reviving Kenya National Shipping Line to tap Ksh 300B potential. By Grace Maina. *Kenya Broadcasting Corporation (KBC)* [Online]. 12 March 2017. Available from: <http://www.kbctv.co.ke/blog/2017/03/12/govt-reviving-kenya-national-shipping-line-to-tap-ksh-300b-potential/> The Government has announced plans to revive the Kenya National Shipping Line that has the potential to contribute Sh304 billion into the country's economy annually.

North Korean Ships Continue to Flout Sanctions. *Maritime Executive* [Online]. 10 March 2017. Available from: <http://maritime-executive.com/article/north-korean-ships-continue-to-flout-sanctions> In a recent report prepared for the UN Security Council and obtained by the AP, a panel of experts concluded that North Korea is successfully evading sanctions on two dozen ships that are suspected of involvement in arms smuggling.

Philippines senate unanimously votes to ratify Paris climate deal. By Karl Mathiesen. *Climate Home* [Online]. 14 March 2017. Available from: <http://www.climatechangenews.com/2017/03/14/philippines-senate-unanimously-votes-ratify-paris-climate-deal/> The senate of the Philippines – one of the world's most vulnerable nations to extreme weather – has voted unanimously to ratify the Paris Agreement on climate change.

South Africa remains poised for a pioneering role in Africa's ocean economy development: SAMSA. *South African Maritime Safety Authority (SAMSA)* [Online]. 14 March 2017. Available from: <https://blog.samsa.org.za/2017/03/14/south-africa-remains-poised-for-a-pioneering-role-in-africas-ocean-economy-development-samsa/> South Africa is well positioned to play a pioneering role in the African continent's drive for expansive growth of its ocean's economy sector, but especially if stakeholders and key role players both in the public and private sector continue to strengthen co-operation and collaboration towards the goal.

NIMASA: Getting out of the water. By Wale Suleiman. *The Nation (Nigeria)* [Online]. 14 March 2017. Available from: <http://thenationonlineng.net/nimasa-getting-water/> If a list of government agencies that have failed to realise their full potential over the years is drawn up, the Nigerian Maritime Administration and Safety Agency (NIMASA) will easily top the list.

European Parliament calls for Arctic ban on use of dirtiest shipping fuel.

Transport & Environment [Online]. 16 March 2017. Available from: <https://www.transportenvironment.org/press/european-parliament-calls-arctic-ban-use-dirtiest-shipping-fuel> Today's call by the European Parliament for a ban on the use of heavy-fuel oil (HFO) by ships when sailing in the Arctic should be met with swift action by the International Maritime Organisation, sustainable transport group Transport & Environment (T&E) has said.

Arctic: ban oil drilling and mitigate tensions, urge MEPs. *European Parliament* [Online].

16 March 2017. Available from: <http://www.europarl.europa.eu/news/en/news-room/20170308IPR65674/arctic-ban-oil-drilling-and-mitigate-tensions-urge-meps> Climate change is bringing new environmental and security challenges in the Arctic, as the melting ice cap opens up new navigation and fishing routes, and competition for its natural resources heats up, say MEPs in a resolution voted on Thursday.

Tubbataha Reefs declared 'area to be avoided'. By Betheena Kae Unite. *Manila Bulletin* [Online]. 15 March 2017. Available from: <http://news.mb.com.ph/2017/03/15/tubbataha-reefs-declared-area-to-be-avoided/> The entire Tubbataha Reefs Natural Park (TRNP) has been declared as an "area to be avoided" (ATBA) by the International Maritime Organization (IMO).

Marine insurance aspects in the context of unmanned ships. *International Union of Marine Insurance (IUMI)* [Online]. March 2017. Available from: <https://iumi.com/news/iumi-eye-newsletter-march-2017/marine-insurance-aspects-in-the-context-of-unmanned-ships>

Unmanned ships and how the maritime legal framework should deal with this new development is a topic coming more and more into focus.

Marine industries contribute \$74 billion to Australia's economy.

Government of Australia [Online]. 17 March 2017. Available from: <http://minister.industry.gov.au/ministers/sinodinos/media-releases/marine-industries-contribute-74-billion-australias-economy> Australia's so called 'blue economy' has made a significant contribution to the nation's prosperity and is increasingly recognised around the world as a high value, high potential growth sector.

Nigeria-South Africa maritime sector regulatory authorities strengthen relations.

South African Maritime Safety Authority (SAMSA) [Online]. 16 March 2017. Available from: <https://blog.samsa.org.za/2017/03/16/nigeria-south-africa-maritime-sector-regulatory-authorities-strengthen-relations/> A Nigeria Maritime Administration and Safety Agency (NIMASA) delegation concluded its three day visit to South Africa in Pretoria on Wednesday satisfied with the outcomes of its engagement with its local counterpart, the South African Maritime Safety Authority (SAMSA), according to group leader, Mr Eric Oji.

Trump Budget Cuts Funds for EPA by 31 Percent. By Evan Lehmann and Emily Holden.

Scientific American [Online]. 16 March 2017. Available from: <https://www.scientificamerican.com/article/trump-budget-cuts-funds-for-epa-by-31-percent/> The White House wants to slash nearly half the budget of EPA's Office of Research and Development, which does most of agency's science work

UNESCO and the European Commission elaborate a common roadmap for the planning of maritime space. *UNESCO* [Online]. 16 March 2017. Available from:

http://www.unesco.org/new/en/media-services/single-view/news/unesco_and_the_european_commission_elaborate_a_common_roadmap/

Towards this objective, the Intergovernmental Oceanographic Commission of UNESCO and the Directorate-General for Maritime Affairs and Fisheries of the European Commission will publish on March 24th a road map developed during the conference to encourage spatial planning in all the seas and ocean basins of the world.

Missing from Trump's grand Navy plan: skilled workers to build the fleet. *By Mike Stone.*

Reuters [Online]. 17 March 2017. Available from: <http://www.reuters.com/article/us-usa-trump-shipbuilding-insight-idUSKBN16O142> The initiative could cost nearly \$700 billion in government funding, take 30 years to complete and require hiring tens of thousands of skilled shipyard workers - many of whom don't exist yet because they still need to be hired and trained, according to the interviews and the documents reviewed.

Somalia calls on NATO to prevent the illegal fishing. *Shabelle News (Somalia)* [Online].

20 March 2017. Available from: <http://www.shabellenews.com/2017/03/somalia-calls-on-nato-to-prevent-the-illegal-fishing/> Somali officials said that NATO must do more to prevent the illegal fishing that sparked the latest pirate hijacking.

Parts of Indonesian waters to be included in sensitive areas. *Antara News (Indonesia)*

[Online]. 20 March 2017. Available from: <http://www.antaranews.com/en/news/110028/parts-of-indonesian-waters-to-be-included-in-sensitive-areas> The government will seek to put part of Indonesian waters in the list of Particularly Sensitive Sea Areas (PSSA).

Singapore Supports ReCAAP ISC's Roadmap for the Future.

Maritime and Port Authority of Singapore (MPA) [Online]. 16 March 2017. Available from: <http://www.mpa.gov.sg/web/portal/home/media-centre/news-releases/detail/e75b61cf-527b-4aa2-8cce-10df4a601058> Singapore, 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), is pleased to have participated in the 11th Governing Council meeting held from 14-16th March 2017.

Blue economy conference ocean conservation. *Solomon Star News (Solomon Islands)*

[Online]. 23 March 2017. Available from: <http://www.solomonstarnews.com/news/national/12581-blue-economy-conference-ocean-conservation> The Pacific Islands Development Forum's (PIDF's) Pacific Blue Economy Conference to be held in Honiara in August this year will focus on traditional knowledge, the latest innovations and lessons learnt and best practices to inform policies, sustainable management and conservation of ocean resources for the Pacific.

China fines owner over sulphur emissions failure. *By Dale Wainwright. TradeWinds*

[Online]. 23 March 2017. Available from: <http://www.tradewindsnews.com/andalso/1230839/china-fines-owner-over-sulphur-emissions-failure> An unnamed shipowner has reportedly fallen foul of Chinese authorities for flouting new sulphur emission rules in Emission Control Areas (ECA).

FRONTEX, EMSA and EFCA strengthen cooperation on coast guard functions.

Frontex European Border and Coast Guard Agency [Online]. 23 March 2017. Available from: <http://frontex.europa.eu/news/frontex-ems-and-efca-strengthen-cooperation-on-coast-guard-functions-jmhNco> The European Border and Coast Guard Agency (Frontex), the European Fisheries Control Agency (EFCA) and the European Maritime Safety Agency (EMSA) took a significant step in structuring their cooperation on coast guard functions by signing a Tripartite Working Arrangement as foreseen by the amended founding regulations of the three Agencies of October last year.

IMO: Tubbataha 'area to be avoided'. By Brenda V. Pimentel. *Manila Times* [Online].

25 March 2017. Available from: <http://www.manilatimes.net/imo-tubbataha-area-avoided/319058/> The entire Tubbataha Reefs Natural Park (TNRP) will officially be an Area to be Avoided (ATBA) by all maritime traffic, after the International Maritime Organization (IMO) endorsed the Philippines' proposal to upgrade the protection of the area.

Launch of white paper on the oceans place in foreign and development policy.

Government of Norway Ministry of Foreign Affairs [Online]. 24 March 2017. Available from: https://www.regjeringen.no/en/aktuelt/launch_ocean_paper/id2545259/ The Ministry of Foreign Affairs launched 24 March a white paper on the oceans place in Norway's foreign and development policy and took part in presenting the new vessel *R/V Dr. Fridtjof Nansen*.

The place of the oceans in Norway's foreign and development policy.

Government of Norway Ministry of Foreign Affairs [Online]. March 2017. Available from: <https://www.regjeringen.no/contentassets/1b21c0734b5042e489c24234e9927b73/en-gb/pdfs/stm201620170022000engpdfs.pdf> Norwegian foreign policy must be designed to support the further development of sustainable ocean-based industries and to promote good solutions and action to combat the serious environmental threats facing the world's oceans.

Arctic Coast Guard Forum Agrees Protocols. *Maritime Executive* [Online]. 24 March 2017.

Available from: <http://www.maritime-executive.com/article/arctic-coast-guard-forum-agrees-protocols> Leaders representing eight coast guards of Arctic nations signed a joint statement on Friday, adopting doctrine, tactics, procedures and information-sharing protocols for emergency maritime response and combined operations in the Arctic.


Navy Announces Launch of Task Force Ocean, Plans to Advance Ocean Science.

United States Navy [Online]. 24 March 2017. Available from: http://www.navy.mil/submit/display.asp?story_id=99455 This new task force is part of an effort to further assess the state of ocean science in the Navy, which encompasses its oceanographic infrastructure, technologies, technical workforce and how they are applied to naval operations.

Colombia Seizes Drugs Found on board German Boxship. *World Maritime News* [Online].

24 March 2017. Available from: <http://worldmaritimeneeds.com/archives/215990/colombia-seizes-drugs-found-on-board-german-boxship/> Some 453 kilos of drugs were found on board a containership at the Port of Santa Marta, Colombia, the country's Office of the Attorney General said in a statement.

Mapping priorities and actions for maritime/marine spatial planning worldwide: a joint roadmap. *UNESCO* [Online]. 24 March 2017. Available from:


http://www.unesco.org/new/en/media-services/single-view/news/mapping_priorities_and_actions_for_maritimemarine_spatial_p/ The roadmap identifies common challenges and proposals for actions to be implemented in the coming years, reaching out for collaboration with other UN bodies and Member States. [Joint Roadmap to accelerate Maritime/Marine Spatial Planning processes worldwide \(MSP\): Conference Conclusions](#) 

Repositioning NIMASA. By Ronke Adekoya. *The Nation (Nigeria)* [Online]. 28 March 2017. Available from: <http://thenationonlineng.net/repositioning-nimasa/> With the rise of international trade, shipping in Nigeria becomes more sophisticated with each passing day.

Rules of the sea. By Kevin McGwin. *Arctic Journal* [Online]. 28 March 2017. Available from: <http://arcticjournal.com/politics/3045/rules-sea> When it comes right down to it, the Arctic Coast Guard Forum is as practical an arrangement as the organisations involved.

Lebanon appeals to UN as maritime energy dispute bubbles to surface. By Sue Surkes. *Times of Israel* [Online]. 28 March 2017. Available from: <http://www.timesofisrael.com/lebanon-appeals-to-un-as-maritime-energy-dispute-bubbles-to-surface/> Beirut says Jerusalem bid to legislate over area of sea with possible energy reserves is tantamount to a 'declaration of war'.

Valletta Declaration casts important foundation for future EU shipping strategy. *European Community Shipowners' Associations (ECSA)* [Online]. 30 March 2017. Available from: <http://www.ecsa.eu/9-latest-news/302-valletta-declaration-casts-important-foundation-for-future-eu-shipping-strategy> The declaration outlines priorities for the EU's maritime transport policy, focusing on competitiveness, digitalisation and decarbonisation.

Maritime and Road Safety were the main topics discussed during the High Level Ministerial Conference. *Malta Presidency EU 2017* [Online]. 29 March 2017. Available from: http://www.eu2017.mt/en/Press-Releases/Documents/PR290317_EN.pdf  A High-level Ministerial Stakeholders Conference on Road Safety and the Maritime Sector was organised between 28 and 29 March and it was attended by more than 400 delegates as well as a number of European Ministers.

Shippers want the EU to look into liner rules. By Tomas Kristiansen. *ShippingWatch* [Online]. 29 March 2017. Available from: <http://shippingwatch.com/secure/carriers/Container/article9467816.ece> Main customers to the container carriers met on Tuesday in Brussels to evaluate how the reshuffling of trades and ships and the coming adjusted schedules by the three alliances will impact their business.

Centre for Peace Studies and Diplomacy holds first forum on small island diplomacy. *Seychelles Nation* [Online]. 29 March 2017. Available from: <http://www.nation.sc/article.html?id=253457> The Sir James Mancham International Centre for Peace Studies and Diplomacy has organised its first forum on core diplomatic challenges for Seychelles and the region.

MARINE TECHNOLOGY

Ready for a future with hydrogen. *Norwegian Maritime Authority* [Online]. 27 February 2017. Available from: <https://www.sjofartsdir.no/en/news/news-from-the-nma/ready-for-a-future-with-hydrogen/> The Norwegian Maritime Authority has observed an increasing interest in using hydrogen as marine fuel and wants to work closely with the industry in the development of the new technology.

Autonomous ship debate is misleading: Maersk Line. By Sam Chambers. *Splash 24/7* [Online]. 3 March 2017. Available from: <http://splash247.com/autonomous-ship-debate-misleading-maersk-line/> All the talk about autonomous ships is misleading and the industry is not addressing the real human element behind the technological changes sweeping the sector.

Rolls-Royce: This is where unmanned vessels will operate. By Louise Vogdrup-Schmidt. *ShippingWatch* [Online]. 2 March 2017. Available from: <http://shippingwatch.com/secure/suppliers/article9395873.ece> That autonomous or unmanned vessels will be part of the shipping industry within a few years from now is a fact, but exactly when and how remains subject to disagreement in the sector.

Korean Register opens new ICT Center. By Lee Hong Liang. *Seatrade Maritime News* [Online]. 7 March 2017. Available from: <http://www.seatrade-maritime.com/news/asia/korean-register-opens-new-ict-center.html> Classification society Korean Register (KR) has opened a new ICT (information communications technology) Center to enhance the development of advanced technology applications across the maritime and ship classification industries.


Signal-tracking satellite would build its own antenna in space. By Chris Baraniuk. *New Scientist* [Online]. 7 March 2017. Available from: <https://www.newscientist.com/article/2123740-signal-tracking-satellite-would-build-its-own-antenna-in-space/> The idea, from Magna Parva in Leicester, is to launch satellites with a supply of raw materials that they can combine to produce long, thin structures such as booms or antennas.

World's First Ship Tunnel to Bypass Norway's Most Dangerous Waters. By Mike Schuler. *gCaptain* [Online]. 7 March 2017. Available from: <http://gcaptain.com/worlds-first-ship-tunnel-to-bypass-dangerous-seas-in-norway/> Norwegian officials have given the green light to fully finance what is set to become the world's first full-scale ship tunnel, bypassing one of the most dangerous areas for vessels along the Norwegian coast.

Rolls-Royce announces investment in Research & Development for Ship Intelligence. *Rolls-Royce* [Online]. 8 March 2017. Available from: <https://www.rolls-royce.com/media/press-releases/yr-2017/08-03-2017-rr-announces-investment-in-research.aspx> Rolls-Royce has today announced the latest stage in its research and development plans to make remote and autonomous shipping a reality and reap the benefits of increasing digitalisation in the marine industry.

The 'ghost ship' set to be the future of shipping. *Hellenic Shipping News* [Online]. 13 March 2017. Available from: <http://www.hellenicshippingnews.com/the-ghost-ship-set-to-be-the-future-of-shipping/> With self-driving motor vehicles poised to be a real prospect on our roads by 2020, it is no surprise that the shipping industry is faced with the introduction of unmanned vessels on the seas.

Predicting an autonomous future. By Michael C. Ford. *Wärtsilä Corporation* [Online]. 13 March 2017. Available from: <http://www.wartsila.com/twentyfour7/innovation/predicting-an-autonomous-future> Seeing into the future might appear to be merely wishful thinking, or something possible only in science fiction.

ABB bringing predictive capabilities of big data for shipping industry with latest update of Remote Diagnostic Services. *ABB* [Online]. 14 March 2017. Available from: <http://www.abb.com/cawp/seitp202/786ab3b6d33c101ac12580e30037605b.aspx>  ABB is one of the leading advocates of the digitalization of shipping and has already launched Integrated Operation Centers in Asia, Europe and the USA where data produced by ships is received and monitored.

Shipping needs to adapt to a quantum leap in technology. By Martyn Wingrove.

Marine Electronics and Communications [Online]. 17 March 2017. Available from: http://www.marinemec.com/news/view,shipping-needs-to-adapt-to-a-quantum-leap-in-technology_46930.htm Shipping should expect a quantum leap in the adoption of technology over the next 10 years as ships are built with more automation and IT systems.

Managing the risks of a software enabled future in maritime. By Howard Fireman, Chief Technology Officer, ABS.

Seatrade Maritime News [Online]. 21 March 2017. Available from: <http://www.seatrade-maritime.com/news/americas/managing-the-risks-of-a-software-enabled-future-in-maritime.html> The trend towards an increasingly software-intensive world – in which there is more code in a new car than there is in a commercial aircraft – is impacting the marine and offshore business.

Blue Denmark zooms in on autonomous ships. Danish Maritime Authority [Online].

20 March 2017. Available from: <http://www.dma.dk/Presse/Nyheder/Sider/Blue-Denmark-zooms-in-on-autonomous-ships.aspx> These years, the entire transport sector is vigorously striving to develop autonomous solutions.

A pre-analysis on autonomous ships. Technical University of Denmark (DTU) and Danish Maritime Authority [Online]. 2017. Available from:

http://www.dma.dk/Documents/Publikationer/Autonomie%20skibe_DTU_rapport_UK.pdf 

This report is a pre-investigation, the purpose of which is to describe the potentials of autonomous ships, on the basis of international activities of direct relevance to the investigation.

Shipping embraces digital transformation without necessarily knowing what it all means.

By Sam Chambers. *Splash 24/7* [Online]. 22 March 2017. Available from:

<http://splash247.com/shipping-embraces-digital-transformation-without-necessarily-knowing-means/> Results from a survey carried out by Futureautics Maritime in association with Ericsson, seen by Splash ahead of their release later today, make plain the digital revolution sweeping shipping - and the confusion surrounding this rapid transformation.

AIS Meets IoT: How Technology is Set to Transform Global Ocean Trade and Supply Chain Efficiency. By Stephen Powell, AIS Team Manager, ORBCOMM.

Maritime Executive [Online]. 22 March 2017. Available from: <http://www.maritime-executive.com/editorials/ais-meets-iot> Stephen Powell, AIS Team Manager at ORBCOMM, explores the evolution of vessel tracking and monitoring technology and looks into the future of smart global ocean trade and supply chains, harnessing satellite AIS, internet of things (IoT) connectivity and big data to deliver unprecedented levels of visibility and control.

MacGregor and Rolls-Royce to explore implications of autonomy for container ships.

MacGregor [Online]. 23 March 2017. Available from: <http://www.macgregor.com/en-global/macgregor/media/releases/Pages/macgregor-and-rollsroyce-to-explore-implications-of-2090019-Thu-23-Mar-2017-13-00.aspx> MacGregor, part of Cargotec, and Rolls-Royce have signed a Memorandum of Understanding (MOU) to collaborate on research and development to explore the impact of developments in autonomy for cargo ship navigation and cargo systems onboard container ships.

Rolls-Royce and Stena Line to work together to develop intelligent awareness for ships.

Rolls-Royce [Online]. 20 March 2017. Available from: <https://www.rolls-royce.com/media/press-releases/yr-2017/20-03-2017-rr-and-stena-line-to-work-together.aspx> Intelligent awareness systems will make vessels safer, easier and more efficient to operate by providing crew with an enhanced understanding of their vessel's surroundings.

ClassNK issues first EGCS ready notation. *ClassNK* [Online]. 24 March 2017. Available from: https://www.classnk.or.jp/hp/en/hp_news.aspx?id=2339&type=press_release&layout=1 Leading classification society ClassNK has issued EGCSR-F (Exhaust Gas Cleaning System Ready Full) notations to nine ships operated by Mitsui O.S.K. Lines, Ltd.

Autonomous ship regulations 'a bigger challenge than the technology'.

By Sam Chambers. *Splash 24/7* [Online]. 30 March 2017. Available from: <http://splash247.com/autonomous-ship-regulation-bigger-challenge-technology/>

Likely upcoming remote-controlled vessels and Maritime Autonomous Surface Ships (MASS) will force all members of the maritime sector and maritime nations to cooperate in ensuring a regulatory regime is in place that covers unmanned ships, according to a gathering at the Insurance Institute of London (IIL).

Propulsion: 'The future is electric'. By Rebecca Moore. *Passenger Ship Technology* [Online]. 30 March 2017. Available from: http://www.passengership.info/news/view/propulsion-the-future-is-electric_47102.htm Electric hybrid propulsion is quickly gaining momentum in the passenger shipping industry, especially with the announcement of Hurtigruten's world-first hybrid electric cruise ships.

MARITIME SAFETY

Marshall Islands Issues Low Sulfur MGO Fuel Testing Guidance. *Ship & Bunker* [Online]. 2 March 2017. Available from: <http://shipandbunker.com/news/world/144749-marshall-islands-issues-low-sulfur-mgo-fuel-testing-guidance> The Republic of the Marshall Islands (RMI) Maritime Administrator has issued a Marine Safety Advisory, which provides guidance on the testing of Low Sulfur Marine Gas Oil (LSMGO) fuel oil by port States in order to ensure ships are using fuel with no more than 0.10 percent sulfur content for MARPOL compliance.

How to get the safety standards for containers message to go global.


By Alexander Whiteman. *The Loadstar* [Online]. 7 March 2017. Available from: <http://theloadstar.co.uk/get-safety-standards-containers-message-go-global/> Developing nations must address the way they approach container packing and take heed of the Cargo Transport Units Code (CTU) if the industry is to improve safety standards on a global scale.

Preliminary results of the CIC on Cargo Securing Arrangements. *Tokyo MoU* [Online]. 2 March 2017. Available from: <http://www.goo.gl/7d2m59> The Member Authorities of the Tokyo MOU carried-out a concentrated inspection campaign on Cargo Securing Arrangements from the 1st September 2016 through the 30th November 2016.

Watertight doors awareness campaign. *Gard* [Online]. 14 March 2017. Available from: <http://www.gard.no/web/content/watertight-doors-awareness-campaign> During day to day operations of a ship and particularly in situations where the ship has been damaged, it is usually assumed that all watertight doors are closed and that the vessel's internal watertight subdivision is 100% effective.

Fighting the threat of hazardous cargoes. **By James Baker.** *Lloyd's List* [Online]. 15 March 2017. Available from: <https://www.lloydslist.com/ll/sector/containers/article551729.ece> Figures collated by Hapag-Lloyd indicate that across the industry, 0.06% of all containers carry undeclared dangerous goods.

Are you prepared? New IMCA safety videos pocket cards launched.

International Marine Contractors Association (IMCA) [Online]. 20 March 2017. Available from: <https://www.imca-int.com/news/2017/03/20/are-you-prepared-new-imca-safety-videos-and-pocket-cards-launched/> Effective promotion of safe working practices is high on the workplace agenda, and keeping safety material fresh and accessible remains vital to putting over the message. [Mini Safety Videos](#) 

Near-collision between Halifax charter boat, cruise ship prompts safety equipment investment.

CTV News (Canada) [Online]. 21 March 2017. Available from: <http://atlantic.ctvnews.ca/near-collision-between-halifax-charter-boat-cruise-ship-prompts-safety-equipment-investment-1.3334870> A charter boat that nearly collided with a much larger cruise ship last summer in Halifax Harbour has prompted the vessel's operator to make a significant safety investment.

House of Lords Debate: Shipping: Safety.

UK Parliament [Online]. 27 March 2017. Available from: <https://hansard.parliament.uk/lords/2017-03-27/debates/DB6251EB-0B9A-4F2A-BD90-F3C1733E037A/ShippingSafety> To ask Her Majesty's Government what assessment they have made of the effectiveness of the international safety regulations and procedures laid down in the International Convention for the Safety of Life at Sea to ensure the safe evacuation of ships carrying more than 5,000 passengers and crew.

Containerized Dangerous Goods: More Needs to be Done.

Maritime Executive [Online]. 30 March 2017. Available from: <http://maritime-executive.com/article/containerized-dangerous-goods-more-needs-to-be-done> Industry stakeholders at the International Cargo Handling Coordination Association (ICHCA International) Packaged Dangerous Goods Seminar in London have agreed that the Tianjin port disaster should spur further collective effort to address misdeclaration and the safe shipment of containerized dangerous goods.

MARITIME SECURITY

IUMI puts the spotlight on unmanned vessels and cyber security.

Offshore Support Journal [Online]. 28 February 2017. Available from: http://www.osjonline.com/news/view,iumi-puts-the-spotlight-on-unmanned-vessels-and-cyber-security_46683.htm The International Union of Marine Insurance says unmanned vessels and cyber security are among the key issues and challenges marine insurers need to address

Repelling terrorist attacks. By Barry Cross.

Port Strategy [Online]. 6 March 2017. Available from: <http://www.portstrategy.com/news101/port-operations/safety-and-security/hvm-and-port-security> Recent terrorist outrages using heavy goods vehicles as improvised weapons has generated concern among the general public, governments and law enforcement agencies.

Analysis - Escalation in ship attacks pushes Yemen towards starvation.

By Jonathan Saul and Katie Paul. *Reuters* [Online]. 6 March 2017. Available from: <http://in.reuters.com/article/yemen-security-maritime-idINKBN16D16B> Cruise missiles, floating mines and a remote-controlled boat have been deployed to attack ships in Yemen in recent months, changing the dynamic of the two-year-old war and pushing the country closer to famine, shipping and aid officials say.

U.S. ship changed course toward Iranians on Saturday: Iran commander.

By Babak Dehghanpisheh. *Reuters* [Online]. 8 March 2017. Available from: <http://www.reuters.com/article/us-usa-iran-navy-idUSKBN16F0VP> A U.S. Navy ship changed course toward Iranian Revolutionary Guard vessels in the Strait of Hormuz on Saturday, a guard commander was quoted as saying on Wednesday while issuing a warning.

India offers to host information centre for maritime security. *Economic Times (India)* [Online]. 7 March 2017. Available from: <http://economictimes.indiatimes.com/news/defence/india-offers-to-host-information-centre-for-maritime-security/articleshow/57518034.cms> India today offered to host an Information Fusion Centre as part of efforts to ensure maritime safety and security in the Indian Ocean.

Iran Urges IORA's Attention to Maritime Security. *Tasnim News Agency (Iran)* [Online]. 7 March 2017. Available from: <https://www.tasnimnews.com/en/news/2017/03/07/1348506/iran-urges-iora-s-attention-to-maritime-security> Iran's Foreign Minister Mohammad Javad Zarif called on members of the Indian Ocean Rim Association (IORA) to pay special attention to improving maritime safety and security in implementing the association's frameworks.

U.S., China Feature in Arctic Maritime Security Publication. *Maritime Executive* [Online]. 7 March 2017. Available from: <http://www.maritime-executive.com/article/us-china-feature-in-arctic-maritime-security-publication> The Proceedings of the 2016 Kiel Conference "Maritime Security Challenges: Focus High North" has just been published

Maritime Security Challenges: Focus High North Papers from the Kiel Conference 2016. By Sebastian Bruns and Adrian J. Neumann. *Institute for Security Policy Kiel University (Germany)* [Online]. 2016. Available from: <http://www.ispk.uni-kiel.de/de/publikationen/konferenzbaende-proceedings/kico-2016-proceedings> Throughout the centuries, the High North, broadly defined as the Arctic region, the Norwegian Sea, the Barents Sea, the southern areas of the Polar Sea, and the area north of the Arctic Circle, has triggered the imagination of many people.

Maritime security reality check. By James Wilkes, Managing Director, Gray Page. *Splash 24/7* [Online]. 9 March 2017. Available from: <http://splash247.com/maritime-security-reality-check/> If the first concerns that spring to mind at the mention of 'maritime security risks' are cyber-attacks and terrorism you can probably count yourself well briefed.

UNODC Advanced Maritime Law Enforcement Training course: 19 Somalis graduate in Seychelles. *Seychelles Nation* [Online]. 11 March 2017. Available from: <http://www.nation.sc/article.html?id=253227> The UNODC Maritime Crime Programme (GMCP) continues to support the criminal justice systems of states in the Horn of Africa and Indian Ocean region in dealing with issues of maritime crime.

UK at risk from ships covertly sailing into Europe after 'suspicious stops' near terror strongholds, say security analysts. By Lizzie Dearden. *The Independent* [Online]. 10 March 2017. Available from: <http://www.independent.co.uk/news/uk/home-news/uk-shipping-windward-suspicious-stops-ships-tracking-smuggling-arms-weapons-people-libya-a7623796.html> Ships from conflict zones and terrorist strongholds are covertly sailing into European waters on suspected smuggling missions while attempting to evade detection, security analysts have warned.

Liberia will partner with Canada in maritime security - Samukai. *Liberia News Agency* [Online]. 10 March 2017. Available from: <http://www.liberianewsagency.org/pagesnews.php?nid=8619> He noted that from the security perspective, the Liberian Coast Guard is prepared to cooperate with all partner nations in ensuring the safety of the broader West African Coastal region to thwart 'tragedy of the commons'.

Intelligence agency warns of maritime cyber threats. By Søren Pico. *ShippingWatch* [Online]. 13 March 2017. Available from: <http://shippingwatch.com/secure/carriers/article9428148.ece> The threat from cyber crime and cyber espionage is "very high" in the maritime sector, according to a threat assessment from the Danish Defence Intelligence Service's Centre for Cyber Security (CFCS).

Threat Assessment: The cyber threat against the maritime sector. *Danish Defence Intelligence Service Centre for Cyber Security* [Online]. March 2017. Available from: https://feddis.dk/cfcs/CFCSDocuments/The_Cyber_Threat_to_the_Maritime_Sector_march.pdf This threat assessment gives an overview of the cyber threat against the maritime sector in Denmark.

Maritime terrorism an emerging threat in Indian Ocean, says Sri Lanka PM Ranil Wickremesinghe. *Financial Express (India)* [Online]. 15 March 2017. Available from: <http://www.financialexpress.com/world-news/maritime-terrorism-an-emerging-threat-in-indian-ocean-says-sri-lanka-pm-ranil-wickremesinghe/588003/> Sri Lankan Prime Minister Ranil Wickremesinghe today pitched for closer cooperation among countries of the region to combat threat of terrorism, warning that maritime infrastructure in the Indian Ocean region could be a potential target of terror groups.

Crime on the high seas. By Kamanthi Wickramasinghe. *Daily Mirror (Sri Lanka)* [Online]. 21 March 2017. Available from: <http://www.dailymirror.lk/article/Crime-on-the-high-seas-125869.html> Piracy, the act of robbery or criminal violence by ship or boat-borne attackers upon another ship or a coastal area, is a common occurrence in international waters.

EU Naval Force Spanish Flagship *ESPS Galicia* Greets Somali Fishermen During Sea Patrols to Deter Armed Pirate Attacks. *EU NAVFOR Somalia* [Online]. 20 March 2017. Available from: <http://eunavfor.eu/eu-naval-force-spanish-flagship-esps-galicia-greets-somali-fishermen-during-sea-patrols-to-deter-armed-pirate-attacks/> Following the recent pirate attack on the Comoros-flagged fuel tanker, *MT Aris 13*, EU Naval Force warships and maritime patrol aircraft have been continuing their counter-piracy patrols off the coast of Somalia.

Gray Page: On piracy and cybercrime. *Splash 24/7* [Online]. 23 March 2017. Available from: <http://splash247.com/gray-page-piracy-cybercrime/> Last week's hijacking of the *Aris 13* tanker, the first incident involving Somali pirates since 2012, might not be a one-off, warns a leading security consultants in today's Maritime CEO interview.

Maritime Security: Transportation Minister okays biometric identity for port operators. By Godwin Oritse and Godfrey Bivbere. *Vanguard (Nigeria)* [Online]. 24 March 2017. Available from: <http://www.vanguardngr.com/2017/03/maritime-security-transportation-minister-okays-biometric-identity-port-operators/> Minister of Transportation, Rotimi Amaechi, has approved biometric identity card for port operators in line with requirements for achieving full International Ships and Ports Security, ISPS, code in Nigeria.

BIMCO Maritime Security Report. *Hellenic Shipping News* [Online]. 23 March 2017. Available from: <http://www.hellenicshippingnews.com/bimco-maritime-security-report/> Giles Noakes, Head of Maritime Security at BIMCO, talks about the most recent meeting of the Maritime Security Committee focusing on piracy, cyber security and the recent highly successful maritime security seminar.

Shipping struggles to come to grips with cyber security threat. By Eric Martin Stamford.

TradeWinds [Online]. 23 March 2017. Available from:

<http://www.tradewindsnews.com/weekly/1230421/shipping-struggles-to-come-to-grips-with-cyber-security-threat>

A modern ship, outfitted to the brim with digital technology that made it paperless, suffered a failure of its navigation software because of a computer virus while in port.

Iranian navy endangering international navigation in Gulf - U.S. commanders.

By Sami Aboudi. *Reuters* [Online]. 22 March 2017. Available from:

<http://uk.reuters.com/article/uk-mideast-security-carrier-idUKKBN16T2EE>

U.S. Navy commanders accused Iran of jeopardizing international navigation by "harassing" warships passing through the Strait of Hormuz and said future incidents could result in miscalculation and lead to an armed clash.

Yemen war threatens to spill into international arena as maritime risks grow.

By Taimur Khan. *The National (United Arab Emirates)* [Online]. 23 March 2017.

Available from: <http://www.thenational.ae/world/middle-east/yemen-war-threatens-to-spill-into-international-arena-as-maritime-risks-grow>

As the war in Yemen enters its third year and fighting intensifies along its western coastline, the conflict is increasingly spilling over into both sides of the Bab Al Mandeb strait, threatening traffic through one of the world's most strategic maritime choke points and impeding delivery of desperately needed aid.

Gov't will equip the Navy to deal with maritime security threat. By Godwill Arthur-Mensah.

Ghana News Agency (GNA) [Online]. 28 March 2017. Available from:

<http://www.ghananewsagency.org/politics/gov-t-will-equip-the-navy-to-deal-with-maritime-security-threat-114885>

Vice-President Dr. Mahamudu Bawumia on Tuesday gave the assurance that the Government would equip the Ghana Navy and other stakeholders in the maritime industry to protect and preserve the vital national assets.

'PH maritime security crashing down'. Manila Standard [Online]. 30 March 2017.

Available from: <http://manilastandard.net/news/national/233085/-ph-maritime-security-crashing-down-.html>

A maritime security has said that maritime security in the country is crashing down, citing some loopholes in the security plan being implemented by the government.

U.S. Maritime Advisory: 2017-002-Regional Conflict and Terrorism-Bab al Mandeb, Gulf of Aden, and Red Sea.

US Maritime Administration (MARAD) [Online]. 27 March 2017. Available from:

<https://www.marad.dot.gov/msci/advisory/2017/2017-002-regional-conflict-and-terrorism-bab-al-mandeb-gulf-of-aden-and-red-sea/>

MARITIME TRAINING

Maritime Union calls for more training and better jobs for skilled European seafarers.

Ship Management International [Online]. 1 March 2017. Available from:

<http://shipmanagementinternational.com/maritime-union-calls-for-more-training-and-better-jobs-for-skilled-european-seafarers/>

Maritime professionals' trade union Nautilus International is arguing for fairer regulation in the shipping industry to safeguard more skilled and less precarious jobs for European seafarers.

NIMASA made provision for sea time experience – Peterside. By Wale Williams-Smith.

Today (Nigeria) [Online]. 4 March 2017. Available from:

<https://www.today.ng/business/transport/267818/nimasa-provision-sea-time-experience-peterside>

The Nigerian Maritime Administration and Safety Agency (NIMASA) has made provisions for sea time experience for the beneficiaries of the Nigerian Seafarers' Development Programme (NSDP), the Director General, Dr. Dakuku Peterside, has said.

VIKING Saatsea introduces 24/7 onboard ISPS Code courses. *Hellenic Shipping News* [Online]. 6 March 2017. Available from: <http://www.hellenicshippingnews.com/viking-saatsea-introduces-247-onboard-isps-code-courses/> Shipowners operating internationally are required to ensure their crews have a range of competencies for dealing with maritime security situations such as piracy or terrorist attacks.

NSC seeks introduction of Admiralty laws in universities. *The Nation (Nigeria)* [Online]. 6 March 2017. Available from: <http://thenationonline.net/nsc-seeks-introduction-admiralty-laws-universities/> The Executive Secretary of Nigerian Shippers' Council (NSC), Mr. Hassan Bello, has suggested the introduction of Admiralty Laws in the curriculum of Nigerian Universities.

WMU and DNV GL Maritime Academy Partner on New Postgraduate Diploma in Maritime Safety and Security. *World Maritime University* [Online]. 9 March 2017. Available from: <http://www.wmu.se/news/wmu-and-dnv-gl-maritime-academy-partner-new-postgraduate-diploma-maritime-safety-and-security> The World Maritime University (WMU) and DNV GL Maritime Academy have launched a new Postgraduate Diploma in Maritime Safety and Security (MSS) to help people involved in shipping operations, as well as the associated regulatory framework, develop the vital understanding of all aspects of safety and security required in today's complex maritime industry.

Massive Open Online Course on Blue Economy launched. *Seychelles Nation* [Online]. 8 March 2017. Available from: <http://www.nation.sc/article.html?id=253173> An introductory Massive Online Course on the Blue Economy which will be made available to anyone and anywhere, especially to people who are unfamiliar with the concept of the Blue Economy, was officially launched yesterday at the University of Seychelles (UniSey), Anse Royale.

Institute of Chartered Shipbrokers and BIMCO announce initiative to improve access to quality education. *Institute of Chartered Shipbrokers* [Online]. 7 March 2017. Available from: <http://www.ics.org.uk/news/2017/03/institute-of-chartered-shipbrokers-and-bimco-announce-initiative-to-improve-access-to-quality-education> This is a major boost for young people in the industry, giving them greater access to quality education and improved standards in maritime centres across the globe.

NMP Turns Up Training Needs of Maritime Instructors. By Jasmin J. Andrade. *National Maritime Polytechnic (Philippines)* [Online]. 28 February 2017. Available from: <http://www.nmp.gov.ph/home/details/100172> Results of a training needs analysis (TNA) conducted by the National Maritime Polytechnic (NMP) reveal specific subject areas in the Training Course for Instructors (IMO Model Course 6.09) needing further emphasis and strengthening as well as other industry recommended Knowledge, Skills and Attributes (KSAs) that maritime instructors need to have to reinforce learnings.

Palau and Italy join forces for maritime seminar. *American Journal of Transportation (AJOT)* [Online]. 14 March 2017. Available from: <https://www.ajot.com/news/palau-and-italy-join-forces-for-maritime-seminar> Palau International Ship Registry (PISR) Flag Inspectors benefited from a seminar hosted between February 20th to 24th at Italian Coast Guard General Headquarters in Rome covering Port State Control, Safety of Navigation, Maritime Security, Prevention of Pollution (MARPOL) and Minimum training standards for seafarers (STCW Convention).

International Maritime Institute of New Zealand Chooses KONGSBERG. *Kongsberg Maritime* [Online]. 14 March 2017. Available from: <https://www.kongsberg.com/en/kongsberg-digital/news/2017/march/international%20maritime%20institute%20of%20new%20zealand%20chooses%20kongsberg/> The Nelson Marlborough Institute of Technology has selected Kongsberg Digital to supply a suite of new navigation simulators for installation at the International Maritime Institute of New Zealand

NIMASA, UK School target sea time for 400 Nigerians. *News Express (Nigeria)* [Online]. 17 March 2017. Available from: <http://www.newsexpressngr.com/news/35968-NIMASA-UK-school-target-sea-time-for-400-Nigerians> The Nigerian Maritime Administration and Safety Agency (NIMASA) has struck a new partnership with the South Shield Marine School at the South Tyneside College, South Shield, Newcastle in the United Kingdom, to provide sea time opportunities for about 400 cadets of the agency's sponsored Nigerian Seafarers Development Program (NSDP).

South Africa ship registry bags one more vessel – a further boost to seafarers training. *South African Maritime Safety Authority (SAMSA)* [Online]. 19 March 2017. Available from: <https://blog.samsa.org.za/2017/03/19/south-africa-ship-registry-bags-one-more-vessel-a-further-boost-to-seafarers-training/> Cape Town based vessels operator, seafarer recruitment and training company, Marine Crew Services (MCS) has responded to the South African Government's call to increase employment and training opportunities for South African seafarers by registering a modern, multi-purpose platform supply and support vessel (MPSV) on the South African Ships Register.

New Cyber Awareness Training for Mariners. By Eric Haun. *Maritime Logistics Professional* [Online]. 16 March 2017. Available from: <http://www.maritimeprofessional.com/news/cyber-awareness-training-mariners-303185> The United States Maritime Resource Center (USMRC) has launched a new e-learning course, Cyber Awareness for Mariners, the first training course of its kind for mariners on maritime cyber.

Master Mariners of Canada develops compulsory courses for work in Polar Waters. *BC Shipping News (Canada)* [Online]. 22 March 2017. Available from: <http://www.bcshippingnews.com/home/industry-news/master-mariners-canada-develops-compulsory-courses-work-polar-waters> Master Mariners of Canada is pleased to announce that new model training courses for ice navigation certification have been approved by the International Maritime Organization (IMO)'s Maritime Safety Committee, and will become mandatory components of the Polar Code.

Graduation Ceremony Held for 6th Class in '3rd Year Program' for Filipino Seafarers. *Mitsui O.S.K. Lines Ltd.(MOL)* [Online]. 21 March 2017. Available from: <http://www.mol.co.jp/en/pr/2017/17015.html> President & CEO Junichiro Ikeda today announced the graduation of 88 students in the sixth class of the "3rd Year Program," which MOL introduced with the goal of developing crewmembers who will uphold strict safety standards in vessel operation.

Maritime Technical College to train thousands of future shipbuilders. *Government of Australia* [Online]. 24 March 2017. Available from: <https://www.minister.defence.gov.au/minister/christopher-pyne/media-releases/joint-media-release-maritime-technical-college-train> The Turnbull Government today announced it will establish a Maritime Technical College to identify, train or retrain Australian workers for our \$90 billion shipbuilding program.

World Maritime University and UN Environment step up cooperation to achieve Sustainable Development Goals. *World Maritime University* [Online]. 23 March 2017.

Available from: <http://www.wmu.se/news/world-maritime-university-un-environment-step-cooperation-achieve-sustainable-development-goals> A Memorandum of Understanding was signed by Mr Erik Solheim, Executive Director of the United Nations Environment Programme (UN Environment) and Dr. Cleopatra Doumbia-Henry, President of the World Maritime University (WMU) on 22 March.

Indonesian ministry invites private sectors to develop maritime vocational schools.

By Ahmada Wijaya. *Antara News (Indonesia)* [Online]. 23 March 2017. Available from: <http://www.antaraneews.com/en/news/110101/indonesian-ministry-invites-private-sectors-to-develop-maritime-vocational-schools> Transportation Minister Budi Karya Sumadi has invited private sectors and universities to develop maritime studies and vocational schools to meet the demand for qualified human resources for the domestic maritime industry.

The Nautical Institute launches Command Diploma Scheme. *Nautical Institute* [Online].

24 March 2017. Available from: <http://www.nautinst.org/en/Media/press/index.cfm/commandscemelaunch> The Nautical Institute's flagship distance learning programme, the Command Diploma Scheme, was launched today in Singapore at the first of this year's Nautical Institute Command Seminars.

Caribbean Maritime Institute – Driving the Economic Growth Agenda Through Education and Training. **By Peta-Gay Hodges.** *Jamaica Information Service* [Online]. 28 March 2017.

Available from: <http://jis.gov.jm/caribbean-maritime-institute-driving-economic-growth-agenda-education-training/> Executive Director of the Caribbean Maritime Institute (CMI), Dr. Fritz Pinnock, cannot disguise his immense joy as he speaks of the institution being granted university status, following the passage of legislation in both Houses of Parliament.

MIGRANTS

Mediterranean Migrant Arrivals Reach 16,775; Deaths: 485.

International Organization for Migration (IOM) [Online]. 28 February 2017. Available from: <http://www.iom.int/news/mediterranean-migrant-arrivals-reach-16775-deaths-485> IOM reports that 16,775 migrants and refugees entered Europe by sea in 2017 through 26 February, with just over 80 percent arriving in Italy and the rest in Greece and Spain.

Mediterranean Migrant Arrivals Reach 16,927, Deaths: 487.

International Organization for Migration (IOM) [Online]. 3 March 2017. Available from: <http://www.iom.int/news/mediterranean-migrant-arrivals-reach-16927-deaths-487> IOM reports that 16,927 migrants and refugees entered Europe by sea in 2017 through 1 March, about 80 percent arriving in Italy and the rest in Spain and Greece.

Over 100 rescued migrants arrive in Lampedusa after turbulent journey. *The Local (Italy)*


[Online]. 6 March 2017. Available from: <https://www.thelocal.it/20170306/over-100-rescued-migrants-arrive-in-lampedusa-after-turbulent-journey> Five people remained missing on Sunday after scores of migrants in an inflatable boat were rescued in turbulent waters off the coast of Libya overnight.

Norwegian ship rescues 503 refugees from Mediterranean Sea. *Malta Independent* [Online].

5 March 2017. Available from: <http://www.independent.com.mt/articles/2017-03-05/world-news/Norwegian-ship-rescues-503-refugees-from-Mediterranean-Sea-6736171245> The Norwegian Police Service says the *Siem Pilot* arrived Sunday in the Sicilian port of Catania with 503 migrants on board.

Arrivals of migrants in Italy at record-setting pace this year: officials.

By Nathan Frandino. *Reuters* [Online]. 5 March 2017. Available from:

<http://www.reuters.com/video/2017/03/05/arrivals-of-migrants-in-italy-at-record?videoid=371242326> 

Almost 1,300 migrants arrived in Sicily over the weekend after crossing the Mediterranean, according to the Coast Guard, adding to a record-setting pace of arrivals this year. Nathan Frandino reports.

Mediterranean Migrant Arrivals Reach 19,384, Deaths: 521.

International Organization for Migration (IOM) [Online]. 7 March 2017. Available from:

<https://www.iom.int/news/mediterranean-migrant-arrivals-reach-19384-deaths-521> IOM reports that 19,384 migrants and refugees entered Europe by sea in 2017 through 5 March, over 80 percent arriving in Italy and the rest in Spain and Greece.

Libya | Maritime Incidents Libyan coast Update | 16 February - 2 March 2017.

International Organization for Migration (IOM) [Online]. 6 March 2017. Available from:

<https://www.iom.int/sitreps/libya-maritime-incidents-libyan-coast-update-16-february-2-march-2017>

Mediterranean Migrant Arrivals Reach 19,653, Deaths: 525.

International Organization for Migration (IOM) [Online]. 14 March 2017. Available from:

<https://www.iom.int/news/mediterranean-migrant-arrivals-reach-19653-deaths-525> IOM reports that 19,653 migrants and refugees entered Europe by sea in 2017 through 14 March, over 80 percent arriving in Italy and the rest in Spain and Greece.

Mediterranean Migrant Arrivals Reach 19,722, Deaths: 525.

International Organization for Migration (IOM) [Online]. 17 March 2017. Available from:

<https://www.iom.int/news/mediterranean-migrant-arrivals-reach-19722-deaths-525> IOM reports that 19,722 migrants and refugees entered Europe by sea in 2017 through 15 March, over 80 percent arriving in Italy and the rest in Spain and Greece.

3000 migrants rescued off Libya: Italian coastguard. *The Local (Italy)* [Online].

20 March 2017. Available from: <https://www.thelocal.it/20170320/3000-migrants-rescued-off-libya-italian-coastguard> 

Around 3,000 migrants were rescued off the coast of Libya on Sunday as they tried to cross the Mediterranean to Europe, the Italian coastguard told AFP.

Mediterranean Migrant Arrivals Reach 20,484, Deaths: 525.

International Organization for Migration (IOM) [Online]. 21 March 2017. Available from:

<http://www.iom.int/news/mediterranean-migrant-arrivals-reach-20484-deaths-525> IOM reports that 20,484 migrants and refugees entered Europe by sea in 2017 through 19 March, with over 80 percent arriving in Italy and the rest in Spain and Greece.

Libya | Maritime Incidents Libyan Coast Update | 3 - 15 March 2017.

International Organization for Migration (IOM) [Online]. 20 March 2017. Available from:

<http://www.iom.int/sitreps/libya-maritime-incidents-libyan-coast-update-3-15-march-2017>

More than 200 migrants feared drowned in Mediterranean. *BBC News* [Online].

24 March 2017. Available from: <http://www.bbc.co.uk/news/world-europe-39372030> More than 200 migrants are feared dead after five bodies were discovered off the Libyan coast, a Spanish aid organisation says.

Mediterranean Migrant Arrivals Reach 25,170, Deaths: 559.

International Organization for Migration (IOM) [Online]. 24 March 2017. Available from: <https://www.iom.int/news/mediterranean-migrant-arrivals-reach-25170-deaths-559> IOM reports that 25,170 migrants and refugees entered Europe by sea in 2017 through 22 March, with over 80 percent arriving in Italy and the rest in Spain and Greece.

IOM Director General Visits Tripoli as Tragedy of Migrant Deaths at Sea Worsens.

International Organization for Migration (IOM) [Online]. 24 March 2017. Available from: <https://www.iom.int/news/iom-director-general-visits-tripoli-tragedy-migrant-deaths-sea-worsens> On 22 March, IOM Director General William Lacy Swing arrived in Tripoli, Libya, to meet with Libyan authorities and partners regarding the complex migration and displacement situation within the country.

MOASxChange 2017 - A Forum Exploring Safe and Legal Alternatives to the Maritime Migration Route.

Oceanus Live [Online]. 28 March 2017. Available from: <http://www.oceanuslive.org/Main/ViewNews.aspx?uid=00001207> This year, experts in the field of migration discussed Humanitarian Corridors and other safe and legal alternatives to the deadly maritime route.

Amid criminalisation, delayed rescue, and mass dying, NGO says struggle for freedom of movement continues. By Matthew Vella.

Malta Today [Online]. 29 March 2017. Available from: http://www.maltatoday.com.mt/news/national/75817/amid_criminalisation_delayed_rescue_and_mass_dying_ngo_says_struggle_for_freedom_of_movement_continues The WatchTheMed alarm phone set up for migrants crossing over the treacherous Mediterranean waters has been ringing incessantly.

Nearly 150 migrants feared dead after boat sinks, sole survivor says. By Steve Scherer.

Reuters [Online]. 29 March 2017. Available from: <http://www.reuters.com/article/us-europe-migrants-rescue-idUSKBN17021E> A rubber boat packed with migrants sank in the Mediterranean and the presumed sole survivor - a 16-year-old Gambian boy - told rescuers he believed all other passengers drowned, the International Migration Organization (IOM) said on Wednesday.

Mediterranean Migrant Arrivals Reach 26,589, Deaths: 649.

International Organization for Migration (IOM) [Online]. 28 March 2017. Available from: <https://www.iom.int/news/mediterranean-migrant-arrivals-reach-26589-deaths-649> IOM reports that 26,589 migrants and refugees entered Europe by sea in 2017 through 26 March, with over 80 percent arriving in Italy and the rest in Spain and Greece.

Malta spearheading EU efforts to tackle migration on Mediterranean route.

Malta Presidency EU 2017 [Online]. 27 March 2017. Available from: http://www.eu2017.mt/en/Press-Releases/Documents/PR170774_EN.pdf The execution of the implementation plan of the Malta Declaration agreed at the Heads of State or Government's Informal Summit in Valletta on the 3rd February 2017 to address migration in the Central Mediterranean region was one of the main items on the agenda of the Justice & Home Affairs Council (Home Affairs), which convened in Brussels.

NAVIGATION AND COMMUNICATIONS

Safe PASSAGE: can sensor technology open the Northwest Passage to shipping?

By Julian Turner. *Ship-Technology.Com* [Online]. 1 March 2017. Available from: <http://www.ship-technology.com/features/featuresafe-passage-can-sensor-technology-open-the-northwest-passage-to-shipping-5729117/> A German-Canadian research project, PASSAGES, aims to make the Northwest Passage as navigable as possible for global shipping. Julian Turner talks to Dr Wolfgang Koch of the Fraunhofer Institute about radar and automatic identification technologies, environmental concerns and the Cold War.

WWF Statement on Bering Strait Port Access Route Study. *WWF* [Online].

27 February 2017. Available from: <https://www.worldwildlife.org/press-releases/wwf-statement-on-bering-strait-port-access-route-study> In response to today's US Coast Guard release of the Bering Strait Port Access Route Study, World Wildlife Fund (WWF) issued a statement from Elena Agarkova, senior program officer and shipping expert.

A PBR/Galileo combo to detect and localise all ships in European seas. *European Commission* [Online]. 2 March 2017. Available from:

http://cordis.europa.eu/news/rcn/126849_en.html Maritime surveillance is one of the key applications where a fully operational Galileo constellation could truly make a difference, through its high precision of course but also by ensuring European independence in a sector that requires the resolving of Europe-specific challenges.

Ball Aerospace and Spire Global collaborate on Arctic Maritime Domain Awareness.

Ball Aerospace [Online]. 6 March 2017. Available from: <http://www.ball.com/aerospace/newsroom/detail?newsid=123822> Together, Ball and Spire are developing a data collection and analysis platform that monitors maritime traffic in the Arctic, which will enable improved awareness of vessel activity and behaviors.

Intelsat outlines high throughput satellite investment. **By Martyn Wingrove.**

Marine Electronics and Communications [Online]. 13 March 2017. Available from: http://www.marinemec.com/news/view,intelsat-outlines-high-throughput-satellite-investment_46857.htm Interview with Jean-Philippe Gillet, Intelsat Vice President, Europe, Middle East and Africa.

Cabinet approves of MoU between India and Bangladesh on Aids to Navigation (AtoNs).

Government of India [Online]. 15 March 2017. Available from: <http://pib.nic.in/newsite/PrintRelease.aspx?relid=159296> The Union Cabinet chaired by the Prime Minister Shri Narendra Modi has approved signing of a Memorandum of Understanding (MoU) on Aids to Navigation (AtoNs) between the Directorate General of Lighthouses & Lightships (DGLL), Ministry of Shipping, Government of India and the Department of Shipping, Government of Bangladesh.

IMO set to reactivate e-navigation development group. **By Aline De Bièvre.**

Marine Electronics and Communications [Online]. 21 March 2017. Available from: http://www.marinemec.com/news/view,imo-set-to-reactivate-enavigation-development-group_46974.htm IMO's Maritime Safety Committee (MSC) is expected to decide, at its next meeting in June (MSC 98), whether to reactivate a joint group of IMO and the International Hydrographic Organization (IHO) on data modelling in support of e-navigation developments.

Africa's northern corridor shippers to enjoy better visibility. *The Loadstar* [Online]. 23 March 2017. Available from: <http://theloadstar.co.uk/africas-northern-corridor-shippers-set-enjoy-better-visibility-launch-regional-electronic-cargo-tracking-system/> Shippers using the northern corridor from the port of Mombasa to the Kenya/Uganda Malaba border now have an additional reason to smile with the launch of the Regional Electronic Cargo Tracking System (RECTS).

Inmarsat and Blue Maritime Cluster partner for digital disruption push. *Inmarsat* [Online]. 27 March 2017. Available from: <http://www.inmarsat.com/news/inmarsat-blue-maritime-cluster-join-digital-disruption-push/> Inmarsat is working with the Blue Maritime Cluster to formulate how digital disruption will transform the traditional shipping industry and open up new opportunities for ship owners, marine technology companies and others in the influential network for innovation.

Singtel and Inmarsat plan maritime cyber security solution. By Peter Broadhurst, Senior VP, Safety and Security, Inmarsat. *Asia/Middle East Maritime Focus* [Online]. 30 March 2017. Available from: http://www.amemaritime.com/news/view,singtel-and-inmarsat-plan-maritime-cyber-security-solution_46980.htm The threat ships face from cyber attack demands technical, operational, training and insurance responses.

PIRACY

S. Korea joins EU's anti-piracy operation around Gulf of Aden. *Yonhap News Agency (South Korea)* [Online]. 5 March 2017. Available from: <http://english.yonhapnews.co.kr/national/2017/03/05/0301000000AEN20170305002700315.html> South Korea's 4,400-ton destroyer Choe Yeong participated in a European Union-led military operation to combat pirates in the waters around the Gulf of Aden near Somalia, the military here said Sunday.

'A 15-minute gunfight feels like a lifetime'. By Nick Roumpis. *TradeWinds* [Online]. 2 March 2017. Available from: <http://www.tradewindsnews.com/TWplus/1219952/a-15-minute-gunfight-feels-like-a-lifetime> Nick Roumpis examines a worrying development - increasingly ferocious attacks on ships that are not so much piracy as maritime terrorism.

Pirates hijack oil tanker off Somalia. By Nick Roumpis. *TradeWinds* [Online]. 14 March 2017. Available from: <http://www.tradewindsnews.com/casualties/1225588/pirates-hijack-oil-tanker-off-somalia> Pirates boarded an oil tanker off the coast of Somalia yesterday, in what is believed to be the first hijacking in the region in five years.

Somali pirates hijack first commercial ship since 2012. By Katharine Houreld. *Reuters* [Online]. 14 March 2017. Available from: <http://www.reuters.com/article/us-somalia-hijack-idUSKBN16L0EW> Pirates have hijacked an oil tanker with eight Sri Lankan crew onboard, a Somali official said on Tuesday, the first time they have successfully taken a commercial ship since 2012.

New hijacking could change the situation off the coast of Somalia. By Tomas Kristiansen. *ShippingWatch* [Online]. 15 March 2017. Available from: <http://shippingwatch.com/secure/carriers/article9433476.ece> Many stakeholders are currently waiting with baited breath to see how the latest hijacking of a vessel off the coast Somalia ends.

Somalia ship hijack: 'Pirates' demand ransom. *BBC News* [Online]. 15 March 2017.

Available from: <http://www.bbc.co.uk/news/world-africa-39277729> 🗞️ Hijackers holding an oil tanker off the coast of Somalia are demanding a ransom, the European Union anti-piracy naval force says.

EU Naval Force Confirms Fuel Tanker Has Been Pirated off North Coast of Somalia.

EU NAVFOR Somalia [Online]. 14 March 2017. Available from: <http://eunavfor.eu/eu-naval-force-confirms-fuel-tanker-has-been-pirated-off-north-coast-of-somalia/> The EU Naval Force, which is currently operating off the coast of Somalia, has received positive confirmation from the master of the Comoros-flagged tanker, *Aris 13*, that his ship and crew are currently being held captive by a number of suspected armed pirates in an anchorage off the north coast of Puntland, close to Alula.

Statement regarding alleged hijacking of Vessel by Somali pirates.

Government of Sri Lanka [Online]. 14 March 2017. Available from: <http://www.mfa.gov.lk/index.php/en/media/media-releases/6886-stmt-vessel> The Ministry is aware of media reports regarding the alleged hijacking of a reportedly "Sri Lankan-flagged fuel freighter" by pirates.

Tanker hijacked by Somalis did not follow piracy procedures. By Sam Chambers.

Splash 24/7 [Online]. 16 March 2017. Available from: <http://splash247.com/tanker-hijacked-somalis-not-follow-piracy-procedures/> The shipowner of the hijacked *Aris 13* product tanker has been slammed for cutting corners and subsequently endangering the lives of eight crewmembers.

'Passengers threw tables and deckchairs': what happens when cruise ships are attacked by pirates? By John Honeywell. *The Telegraph* [Online]. 15 March 2017. Available from:

<http://www.telegraph.co.uk/travel/cruises/articles/what-happens-if-a-cruise-ship-is-attacked-by-pirates/> After the first successful hijacking of a commercial ship by Somali pirates in five years, John Honeywell explains why cruise ships continue to visit the region - and how they protect themselves.

Somalia pirates: Anger fuels return of ship attacks. *Aljazeera* [Online]. 15 March 2017.

Available from: <http://www.aljazeera.com/news/2017/03/somalia-pirates-anger-fuels-return-ship-attacks-1703151915900.html> 🗞️ A volatile build-up of weapons and resentment along the northern Somali coast culminated in the hijack of an oil freighter this week, the first such seizure by Somali pirates since 2012, experts and locals say.

First Hijacking of a Merchant Vessel by Somali Pirates in Five Years.

Oceans Beyond Piracy [Online]. 14 March 2017. Available from: <http://oceansbeyondpiracy.org/press-releases/first-hijacking-merchant-vessel-somali-pirates-five-years> On 13 March 2017 Somali pirates hijacked the *MT ARIS 13*, a tanker vessel en route to Mogadishu from Djibouti.

EU Naval Force (Somalia) Confirms Fuel Tanker *Aris 13* and Crew Are Safe and on Their Way to Safe Port After Armed Pirates Depart Ship. *EU NAVFOR Somalia* [Online].

16 March 2017. Available from: <http://eunavfor.eu/eu-naval-force-somalia-confirms-fuel-tanker-aris-13-and-crew-are-safe-and-on-their-way-to-safe-port-after-armed-pirates-depart-ship/> The EU Naval Force (Somalia) can confirm that fuel tanker *Aris 13* and her crew are now en route to a safe port on the north coast of Somalia after armed pirates, who had been holding the crew since Monday 13 March 2017, departed the ship.

Somali force and pirates aboard hijacked vessel exchange fire. By Abdiqani Hassan.

Reuters [Online]. 17 March 2017. Available from: <http://www.reuters.com/article/us-somalia-hijack-idUSKBN16N17A> Somali maritime forces have exchanged gunfire with the hijackers of an oil tanker in the semi-autonomous region of Puntland, the head of the maritime force said on Thursday.

Putting Somali piracy into perspective. By David Rider, Intelligence Consultant.

Splash 24/7 [Online]. 21 March 2017. Available from: <http://splash247.com/putting-somali-piracy-perspective/> After almost five years without a major pirate attack or successful merchant hijack, Somali pirates returned to action by hijacking the *Aris 13*, a Comoros-flagged bunkering tanker with eight Sri Lankan crew onboard.

Robbers Target Maersk. *Port Technology International* [Online]. 21 March 2017.

Available from:

https://www.porttechnology.org/news/maersk_targeted_in_armed_robberies_in_asia

Three incidents of robbery against ships in Asia have been reported to the piracy and armed robbery data exchange ReCAAP ISC, including one case involving the Maersk Aegean tanker in Singapore.

Somali regional anti-piracy chief says sacked over illegal fishing comments.

By Abdiqani Hassan. *Reuters* [Online]. 21 March 2017. Available from:

<http://www.reuters.com/article/us-somalia-piracy-idUSKBN16S0LG> The head of anti-piracy operations in the semi-autonomous Puntland region of Somalia said he had been fired for speaking out about illegal fishing, which he claims could trigger a new outbreak of piracy in the Indian Ocean.

Somali pirates take over Somali vessel to use as floating base: police.

By Abdiqani Hassan. *Reuters* [Online]. 24 March 2017. Available from:

<http://www.reuters.com/article/us-somalia-piracy-idUSKBN16V1HZ> Pirates have seized control of a Somali fishing boat to use as a base from which to attack larger ships, police said on Friday, a week after Somali pirates hijacked their first commercial vessel since 2012.

Piracy in the Gulf of Guinea analysed. By Jake Longworth, Senior Intelligence Analyst, EOS Risk Group.

Splash 24/7 [Online]. 24 March 2017. Available from:

<http://splash247.com/piracy-gulf-guinea-analysed/> The Gulf of Guinea continues to be one of the most dangerous bodies of water in the world for merchant shipping.

Filipino Pirates Take Two Crew from Ro-Ro Ship. *World Maritime News* [Online].

24 March 2017. Available from: <http://worldmaritimeneews.com/archives/216016/filipino-pirates-take-two-crew-from-ro-ro-ship/> Armed pirates kidnapped two crewmembers from the Ro-Ro vessel *Super Shuttle Roro 9* near Sibago island off the coast of Philippines on March 23, Reuters informed citing Philippine officials.

Confusion surrounds Somalia pirate group. By Dale Wainwright. *TradeWinds* [Online].

28 March 2017. Available from: <http://www.tradewindsnews.com/piracy/1232629/confusion-surrounds-somalia-pirate-group> Confusion surrounds the intentions of a newly formed Pirate Action Group (PAG) operating off the coast of Somalia.

Fighting Somali piracy: don't get the next steps wrong. By Timothy Walker.

Institute for Security Studies (ISS) [Online]. 27 March 2017. Available from:

<https://issafrica.org/iss-today/fighting-somali-piracy-dont-get-the-next-steps-wrong>

On 13 March, the *Aris 13* was hijacked off the coast of Somalia, leading analysts to ask whether the incident heralded a fresh wave of Somali piracy.

Is this the most dangerous backwater in the world? By Swee Lean Collin Koh. *BBC News* [Online]. 30 March 2017. Available from: <http://www.bbc.co.uk/news/world-asia-39252503>
Across the world there has been a decline in piracy and sea robbery, but one precarious expanse of ocean waters in South East Asia is bucking that trend, as maritime defence expert Swee Lean Collin Koh explains.

A solution to Somali piracy is in sight – local communities hold the key. *The Conversation* [Online]. 29 March 2017. Available from: <https://theconversation.com/a-solution-to-somali-piracy-is-in-sight-local-communities-hold-the-key-75067> The recent hijacking of an oil tanker by alleged Somali pirates raises a number of important questions.

PORT STATE CONTROL

Foreign flagged ships under detention in the UK during February 2017.

UK Maritime & Coastguard Agency [Online]. 6 March 2017. Available from: <https://www.gov.uk/government/news/foreign-flagged-ships-under-detention-in-the-uk-during-february-2017> The Maritime and Coastguard Agency (MCA) announced today that eight foreign flagged ships were under detention in UK ports during February 2017 after failing Port State Control (PSC) inspection.

Fiji joins NZ in stopping vessel over biofouling threat. *Radio New Zealand* [Online].

9 March 2017. Available from: <http://www.radionz.co.nz/international/pacific-news/326140/fiji-joins-nz-in-stopping-vessel-over-biofouling-threat> The Biosecurity Authority of Fiji (BAF) has stopped a Korean cargo ship from entering Fijian waters after it was ordered to leave New Zealand on Sunday.

What next for dirty vessel *DL Marigold*? By James Henderson. *Seatrade Maritime News*

[Online]. 9 March 2017. Available from: <http://www.seatrade-maritime.com/news/asia/what-next-for-dirty-vessel-dl-marigold.html> Earlier this week, a Korean-owned bulk carrier *DL Marigold* made headlines after it was ordered to leave New Zealand waters because its hull was judged to be threat to bio-security.

Banned vessel allowed to return after cleaning. *Government of New Zealand* [Online].

29 March 2017. Available from: <https://www.mpi.govt.nz/news-and-resources/media-releases/banned-vessel-allowed-to-return-after-cleaning/> A biofouled vessel ordered to leave Tauranga earlier this month has been allowed to return after being cleaned outside New Zealand, says the Ministry for Primary Industries.

PORTS AND HARBOURS

Latin America's most technologically advanced container terminal now open for business. *APM Terminals* [Online]. 27 February 2017. Available from: <http://www.apmterminals.com/en/news/press-releases/2014/12/latin-americas-most-technologically> APM Terminals Lazaro Cardenas, Mexico's largest semi-automated terminal, welcomes its first vessel, the *Maersk Salalah*.

Employers remain optimistic about the European social dialogue for ports. *European Sea Ports Organisation (ESPO)* [Online]. 2 March 2017. Available from: <http://www.espo.be/news/employers-remain-optimistic-about-the-european-soc> The European social dialogue on ports was established in June 2013 by port employers and employees to identify challenges faced by the sector, improve health and safety conditions and raise awareness about the essential contribution of port stakeholders to the EU economy and its growth.

2020 vision. By Stevie Knight. *Port Strategy* [Online]. 6 March 2017. Available from: <http://www.portstrategy.com/news101/environment/2020-vision> Even with the long run up, there's a good chance the 2020 sulphur cap will still take people and ports by surprise.

HELCOM moves forward on Port Reception Facilities. *Baltic Ports Organization (BPO)* [Online]. 3 March 2017. Available from: <http://www.bpoports.com/helcom-moves-forward-on-port-reception-facilities.html> Work plans for the Cooperation Platform on Port Reception Facilities (PRFs) and HELCOM Maritime sub-group on green ship technology and alternative fuels have been adopted during the 38th HELCOM meeting.

MPA Drives Innovation to Enhance Singapore's Hub Port Competitiveness. *Maritime and Port Authority of Singapore (MPA)* [Online]. 8 March 2017. Available from: <http://www.mpa.gov.sg/web/portal/home/media-centre/news-releases/detail/b8947c16-bd25-4499-a115-4ca1f8333f82> To enhance Singapore's hub port competitiveness, the Maritime and Port Authority of Singapore (MPA) is leveraging technology to help maritime companies innovate and move into new growth areas.

Royal Caribbean's newest and world's largest cruise ship *Symphony of the Seas* headlines 2018-2019 deployment. *Royal Caribbean Press Centre* [Online]. 8 March 2017. Available from: <https://www.royalcaribbeanpresscenter.com/press-release/1306/royal-caribbeans-newest-and-worlds-largest-cruise-ship-symphony-of-the-seas-headlines-2018-2019-deployment/> Royal Caribbean today breaks ground on the dramatic new PortMiami Terminal A, which will herald the arrival of what will be the world's largest cruise ship and the global cruise line's newest addition, *Symphony of the Seas*.

Couple Recalls Close Encounter With Cruise Ship: 'This Boat Is Coming To The House!'. By Gary Nelson. *CBS Miami* [Online]. 7 March 2017. Available from: <http://miami.cbslocal.com/2017/03/07/couple-recalls-close-encounter-with-cruise-ship-this-boat-is-coming-to-the-house/> 🚢 The Celebrity cruise ship *Equinox* appeared to be making a beeline for Bill and Yasmine Todhunter's patio as it left Port Everglades Friday afternoon.

Lack of UK Shore Power Solutions Back in the Spotlight Amid Air Quality Concerns at Britain's Biggest Cruise Port. *Ship & Bunker* [Online]. 10 March 2017. Available from: <http://shipandbunker.com/news/emea/225075-lack-of-uk-shore-power-solutions-back-in-the-spotlight-amid-air-quality-concerns-at-britains-biggest-cruise-port> The lack of shore power solutions for vessels calling at UK ports has come under the spotlight once again amid air quality concerns at Southampton, Britain's biggest cruise port.

Cruise giants cut S. Korean ports from China-based trips. By Muyu Xu, Adam Jourdan, and Hyunjoo Jin. *Reuters* [Online]. 9 March 2017. Available from: <http://in.reuters.com/article/southkorea-china-cruises-idINL3N1GM3UE> Global cruise giants Carnival Corp and Royal Caribbean Cruises Ltd will cancel South Korean port visits from their China-based cruises after Seoul deployed a U.S. missile defense system, raising tensions between the two countries.

Port of Amsterdam reduces CO2 footprint by 25% through fleet-wide use of advanced marine biofuel from GoodFuels Marine. *Port of Amsterdam* [Online]. 9 March 2017. Available from: <https://www.portofamsterdam.com/en/press-release/port-amsterdam-reduces-co2-footprint-25-through-fleet-wide-use-advanced-marine-biofuel> Following a previous successful pilot, GoodFuels Marine has also won Port of Amsterdam's tender for its fleet of five patrol vessels.

International PortCDM council established to support standardized message sharing in port call operations. *Hellenic Shipping News* [Online]. 14 March 2017. Available from: <http://www.hellenicshippingnews.com/international-portcdm-council-established-to-support-standardized-message-sharing-in-port-call-operations/> Building on the strategy issued by IMO for 2017 – connecting Ships and Ports – the STM validation project is proud to announce the establishment of an international PortCDM council.

'Blue Baltics' – LNG value chain will interconnect four countries. *Port News* [Online]. 15 March 2017. Available from: <http://portnews.ru/news/235798/> Klaipėdos Nafta says on 14 March, the 'Blue Baltics' project partners met for the first time in Klaipėda and discussed the infrastructure synchronisation of the Baltic Sea Region liquefied natural gas (LNG), perspectives, project progress.

Review of port concession agreements long overdue. By Eugene Agha. *Daily Trust (Nigeria)* [Online]. 20 March 2017. Available from: <http://www.dailytrust.com.ng/news/business/review-of-port-concession-agreements-long-overdue-mpa-md/189956.html> The Managing Director of the Nigerian Ports Authority (NPA), Hadiza Bala Usman, in this interview with our maritime correspondent, bares her mind on how her administration is repositioning the agency, reviewing agreements and building synergy with stakeholders.

Saudi-led coalition calls for UN supervision of Yemen port. *Gulf Business* [Online]. 19 March 2017. Available from: <http://gulfbusiness.com/saudi-led-coalition-calls-un-supervision-yemen-port/> A Saudi-led coalition fighting in Yemen called on Sunday for the United Nations to place a strategic port under its supervision after 42 Somalis were killed in an attack on their refugee boat nearby.

Larger vessels vs the community. *Green Port* [Online]. 21 March 2017. Available from: <http://www.greenport.com/news101/cruise/larger-vessels-vs-the-community> The green light given to a new terminal development in Venice has drawn criticism from the cruise industry over what has been called a totally 'unworkable solution'.

Royal Caribbean to invest in Penang's cruise terminal expansion. *The Star (Malaysia)* [Online]. 17 March 2017. Available from: <http://www.thestar.com.my/business/business-news/2017/03/17/royal-caribbean-to-invest-in-penangs-rm155mil-cruise-terminal-expansion/> A global cruise line giant listed on the New York Stock Exchange is investing in the Swettenham Pier Cruise Terminal here to lengthen the pier from the present 400m to 688m.

ISPS Code: 31 Nigerian ports, jetties not safe ? NIMASA. By Tola Adenubi.

Nigerian Tribune [Online]. 21 March 2017. Available from: <https://tribuneonline.ng.com/isps-code-31-nigerian-ports-jetties-not-safe-%E2%80%95-nimasa/> The Director General of the Nigerian Maritime Administration and Safety Agency (NIMASA), Dr Dakuku Peterside has revealed that 31 ports and jetties in Nigeria are currently not yet compliant to the International Ships and Facilities Security (ISPS) code.

Yemen's warring parties should protect ports, not U.N.: spokesman. By Michelle Nichols.

Reuters [Online]. 22 March 2017. Available from: <http://www.reuters.com/article/us-yemen-security-un-idUSKBN16S287> The warring parties in Yemen are responsible for the protection of civilians and infrastructure and not others, the United Nations said on Tuesday in response to a Saudi-led military coalition calling for the U.N. to supervise a strategic port.

UK MCA informs on port waste management planning. Green4Sea [Online]. 22 March 2017.

Available from: <http://www.green4sea.com/uk-mca-informs-on-port-waste-management-planning/> The UK MCA has issued a Marine Guidance Note to inform on the revised waste notification form which is to be used by ships' masters when delivering waste to port reception facilities.

Deepening and Widening of Mumbai Harbour Channel and JN Port Channel (Phase-II).

Government of India [Online]. 22 March 2017. Available from: <http://pib.nic.in/newsite/PrintRelease.aspx?relid=159751> The Cabinet Committee on Economic Affairs, chaired by the Prime Minister Shri Narendra Modi has approved fresh estimates of the project Deepening and Widening of Mumbai Harbour Channel and JN Port Channel (Phase-II).

RECYCLING OF SHIPS

Please, Get Real with Ship Recycling. By Nikos Mikelis, non-executive director, GMS.

Maritime Executive [Online]. 15 March 2017. Available from: <http://www.maritime-executive.com/editorials/please-get-real-with-ship-recycling> Last week five European ship recycling yards announced that they signed an agreement that establishes the European Ship Recyclers Group (ESR).

EU ship recyclers join voices to promote clean and safe practices.

NGO Shipbreaking Platform [Online]. 10 March 2017. Available from: <http://www.shipbreakingplatform.org/platform-news-eu-ship-recyclers-join-voices-to-promote-clean-and-safe-practices/> Five European ship recycling yards announced yesterday that they have joined forces to effectively raise awareness of existing best practice and the fact that there is capacity in Europe to properly recycle ships.

REGULATIONS

Verifavia Shipping receives first Accreditation as a full Global Independent EU MRV Verifier. *Verifavia Shipping* [Online]. 3 March 2017. Available from: <http://www.verifavia-shipping.com/shipping-carbon-emissions-verification/v-news-press-release-verifavia-shipping-receives-first-accreditation-as-a-full-global-independent-eu-mrv-verifier-799.php> Verifavia, the world's leading emissions verification company for the transport sector (aviation and shipping), today announced that it has been fully accredited by the United Kingdom Accreditation Service (UKAS) as a global EU monitoring, reporting, and verification (MRV) verifier.

Shipping and refiners in catch-22 over 0.5% sulphur rule. By Lee Hong Liang. *Seatrade Maritime News* [Online]. 2 March 2017. Available from: <http://www.seatrade-maritime.com/news/asia/shipping-and-refiners-in-catch-22-over-0-5-sulphur-rule.html> The 0.5% fuel sulphur content cap regulation by the IMO is less than three years away from the enforcement date of 1 January 2020, leaving the refining and shipping industries caught in a catch-22 situation.

EU Maritime MRV accreditation enables Bureau Veritas clients to meet deadline for compliance. *Bureau Veritas* [Online]. 2 March 2017. Available from: <http://www.bureauveritas.com/home/news/business-news/eu-maritime-mrv-accreditation> Bureau Veritas, the leading international classification society, has gained accreditation from United Kingdom Accreditation Services (UKAS), in their pilot scheme, to carry out assessments and verifications for compliance with the European Union's Maritime Monitoring, Reporting and Verification (EU MRV) regulation.

Understanding the Challenge of Climate Change Regulation in Shipping. *Centre for International Governance Innovation (CIGI)* [Online]. 1 March 2017. Available from: <https://www.cigionline.org/events/understanding-challenge-climate-change-regulation-shipping> Co-organized by the Centre for International Governance Innovation (CIGI) and the Marine & Environmental Law Institute (MELAW) at Dalhousie University, this consultation workshop includes experts from CIGI's International Law Research Program and experts from governmental, academic, and private sectors.

Is the Shipping Industry Overreacting About Regulation Timing? By Nikos Petratakos, Environmental Shipping Expert MSc, Naval Architect. *Hellenic Shipping News* [Online]. 6 March 2017. Available from: <http://www.hellenicshippingnews.com/is-the-shipping-industry-overreacting-about-regulation-timing/> Since last Fall, many stakeholders in shipping have been running a barrage of "doomsday" scenarios about implementation of the BWTC, followed by outrage over 2020 SOx.

A slow start for same risk areas. *Ballast Water Treatment Technology* [Online]. 6 March 2017. Available from: http://www.ballastwatermanagement.co.uk/news/view,a-slow-start-for-same-risk-areas_46771.htm There are areas where certain provisions of IMO's Ballast Water Management Convention have been undeveloped when arguably they should have been fully agreed upon before the text was adopted, or very soon after.

Do not rush to install ballast water treatment systems, warn experts. By Abdul Hadhi. *Lloyd's List* [Online]. 8 March 2017. Available from: <https://www.lloydslist.com/ll/sector/regulation/article551384.ece> Shipping experts have advised owners to take more time before installing ballast water treatment systems on their ships even as implementation is barely six months away.

Regulations should achieve their core purpose in the most effective and practical ways possible. *International Association of Dry Cargo Shipowners (INTERCARGO)* [Online].

7 March 2017. Available from:

http://www.intercargo.org/en/?option=com_attachments&task=download&id=394 

INTERCARGO's Technical and Executive Committees held their semi-annual meetings on 6 and 7 March, along with a well-attended Gala dinner on first day.

Environmental regs in focus from IMO sec-gen Lim at Panama Maritime XIII opening.

By Michele Labrut. *Seatrade Maritime News* [Online]. 14 March 2017. Available from:

<http://www.seatrade-maritime.com/news/americas/environmental-regs-in-focus-from-imo-sec-gen-lim-at-panama-maritime-xiii-opening.html>

On Sunday IMO secretary general Kitack Lim inaugurated the Panama Maritime XIII World Conference and Exhibition, the largest event of the maritime industry in Latin America as the country's Ship Registry is celebrating its centenary.

Future of shipping fleet hangs in the balance of coming regulations, as ship owner ponder whether to scrap or retrofit? By Nikos Roussanoglou. *Hellenic Shipping News*

[Online]. 14 March 2017. Available from: [http://www.hellenicshippingnews.com/future-of-](http://www.hellenicshippingnews.com/future-of-shipping-fleet-hangs-in-the-balance-of-coming-regulations-as-ship-owner-ponder-whether-to-scrap-or-retrofit/)

[shipping-fleet-hangs-in-the-balance-of-coming-regulations-as-ship-owner-ponder-whether-to-scrap-or-retrofit/](http://www.hellenicshippingnews.com/future-of-shipping-fleet-hangs-in-the-balance-of-coming-regulations-as-ship-owner-ponder-whether-to-scrap-or-retrofit/) Scrapping of older tonnage or retrofitting will be one the main talking points in the shipping industry as we edge closer to the realization of major regulatory changes.

Riding the wave towards a ballast water boom. By Anastassios Adamopoulos. *Lloyd's List* [Online]. 13 March 2017. Available from:

<https://www.lloydslist.com/ll/sector/regulation/article551643.ece> Six months before the International Maritime Organization's Ballast Water Management Convention enters into force, system manufacturers continue to be faced with cautious shipowners contemplating the right price, system and timing of the investment.

How About One Rule for Ballast Water Instead of Many, Shippers Ask.

By Amena H. Saiyid. *Bloomberg* [Online]. 14 March 2017. Available from:

<https://www.bna.com/one-rule-ballast-n57982085188/> Specifically, they want the U.S. Coast Guard - not the Environmental Protection Agency - to regulate ships' discharges of ballast water and other waste such as deck runoff, grease and dirty water from showers and sinks.

Infographic: a quick guide to key shipping regulations - 2017 and onwards.

Ince & Co [Online]. March 2017. Available from: <http://www.incelaw.com/en/documents/pdf-library/shipping/shipping-regulations-2017.pdf> 

Ballast Water Treatment: A 'Sample' of What to Expect Next. By Joseph Keefe.

Maritime Logistics Professional [Online]. 18 March 2017. Available from:

<http://www.maritimeprofessional.com/blogs/post/ballast-water-treatment-a-sample-of-what-to-expect-next-15193>

Having just returned from the 4th Annual Ballast Water Management Summit held in Long Beach, CA, I'm completely up to speed (or so I kid myself) on the complex topic of ballast water management systems, treatment and the regulatory quagmire represented by the IMO, U.S. Coast Guard, the EPA and sixteen other U.S. states that have their own Balkanized idea of what this should entail.

AMSA advises on ship emissions regulations. *Green4Sea* [Online]. 22 March 2017.

Available from: <http://www.green4sea.com/amsa-advises-on-ship-emissions-regulations/>

Australian Maritime Safety Authority (AMSA) issued a marine notice, in order to provide general information to shipowners, masters and crews on Annex VI of the International Convention for the Prevention of Pollution from Ships (MARPOL).

USCG to 'push' ballast rule compliance. By Michael Angell. *TradeWinds* [Online]. 22 March 2017. Available from: <http://www.tradewindsnews.com/legal/1230091/uscg-to-push-ballast-rule-compliance> A top civilian official with the US Coast Guard (USCG) says it plans to step up enforcement of its ballast water discharge rules, now that USCG-approved treatment gear is on the market.

Staying at the forefront of regulations. *Wilhelmsen* [Online]. 27 March 2017. Available from: <http://www.wilhelmsen.com/media-news-and-events/news/2017/staying-at-the-forefront-of-regulations/> Major environmental regulations dealing with air pollution, greenhouse gases and invasive marine species will come into effect this decade, aiming at reducing the environmental impact of shipping.

Workshop discusses container mass verification requirements. *Government of Mauritius* [Online]. 27 March 2017. Available from: <http://www.govmu.org/English/News/Pages/Workshop-discusses-container-mass-verification-requirements.aspx> The container mass verification requirements of SOLAS (International Convention for the Safety of Life at Sea) were the main focus of discussions of a workshop which was held on 24 March 2017 at Cyber Tower 1 in Ebène.

IOPP decoupling threatens BWM installation schedule. *The Motorship* [Online]. 29 March 2017. Available from: <http://www.motorship.com/news101/industry-news/iopp-decoupling-threatens-bwm-installation-schedule> Shipyards may struggle to meet the demand for ballast water management (BWM) system installations if owners seek to postpone compliance by performing early surveys, according to class society DNV GL and system supplier Optimarin.

SALVAGE

Sunken Sewol-ho ferry to be raised in May or June: Maritime ministry. *Arirang News (South Korea)* [Online]. 15 March 2017. Available from: http://www.arirang.co.kr/News/News_View.asp?nseq=201848 Almost three years after the *Sewol-ho* ferry sank, killing 304 people, mostly high school students, the government has finished preparations to raise the ship from the bottom of the West Sea.

South Korean ferry in which hundreds died raised after three years. *The Guardian* [Online]. 22 March 2017. Available from: <https://www.theguardian.com/world/2017/mar/22/south-korean-ferry-in-which-hundreds-died-raised-after-three-years> Salvage operators have raised South Korea's sunken *Sewol* ferry, nearly three years after the ship sank, killing more than 300 people and dealing a crippling blow to now-ousted president Park Geun-Hye.

Sewol Salvage Delayed by Dangling Loading Ramp. *Maritime Executive* [Online]. 23 March 2017. Available from: <http://www.maritime-executive.com/article/sewol-salvage-hampered-by-dangling-loading-ramp> The top of the sunken ferry *Sewol* has reached a height of 27 feet above the surface, leaving only 15 feet to go before salvors can bring her back into port.

International Salvage Union members provide services in cases involving more than 2.5 million tonnes of potential pollutants in 2016. *International Salvage Union (ISU)* [Online]. 22 March 2017. Available from: <http://www.marine-salvage.com/media-information/our-latest-news/international-salvage-union-members-provide-services-in-cases-involving-more-than-2-5-million-tonnes-of-potential-pollutants-in-2016/> Members of the International Salvage Union (ISU) provided 213 services to vessels carrying more than 2.5 million tonnes of potentially polluting cargoes during operations in 2016.

Wreck of the Sewol Loaded Onto Heavy Lift Ship. *Maritime Executive* [Online]. 24 March 2017. Available from: <http://maritime-executive.com/article/wreck-of-the-sewol-loaded-onto-heavy-lift-ship> In the early hours of Saturday morning, Korea's Ministry of Maritime Affairs and Fisheries confirmed that salvage crews have successfully loaded the wreck of the ferry *Sewol* onto the deck of the semi-submersible ship *Dockwise White Marlin*.

Salvage industry is not prepared for an LNG-fuelled ship casualty. By Martyn Wingrove. *Tug Technology & Business* [Online]. 28 March 2017. Available from: http://www.tugtechnologyandbusiness.com/news/view,salvage-industry-is-not-prepared-for-an-lngfuelled-ship-casualty_47077.htm Do not let the ship sink, do not spill gas and do not let it catch fire; that was the advice from Smit Salvage master Sylvia Tervoort for owners of gas-fuelled ships.

South Korea's sunken Sewol ferry finally reaches port. *Straits Times* [Online]. 31 March 2017. Available from: <http://www.straitstimes.com/asia/east-asia/south-koreas-sunken-sewol-ferry-finally-reaches-port> The salvaged wreck of South Korea's *Sewol* ferry finally reached port on Friday (March 31), nearly three years after setting out on a doomed voyage that killed more than 300 people.

SEAFARERS


Raise voice if faced with restrictions: Country's first woman merchant navy officer. *Times of India* [Online]. 5 March 2017. Available from: <http://timesofindia.indiatimes.com/city/udaipur/women-should-raise-voice-when-faced-with-restrictions-nations-1st-female-merchant-navy-officer/articleshow/57471351.cms?> During the early 90's when girls preferred to work in comfort zones, Radhika Menon convinced her parents to let her take a 1.5-year radio course at a Marine college and she became the first radio officer in Shipping Corporation of India.

Storm Doris Fails to Sink Seafarers UK Centenary Dinner. *Seafarers UK* [Online]. 3 March 2017. Available from: <http://www.seafarers.uk/news/storm-doris-fails-to-sink-seafarers-uk-centenary-dinner/> Storm Doris tried its best with 100mph winds to thwart plans for a Centenary Dinner for Seafarers UK (King George's Fund for Sailors), the leading maritime charity, but a very successful fundraising evening took place on 23 February at Liverpool's Merseyside Maritime Museum to raise funds for a local welfare project.

Russian embassy in Nigeria confirms release of abducted Russian sailors. *TASS Russian News Agency* [Online]. 5 March 2017. Available from: <http://tass.com/world/934074> Russian crew members of the BBC Caribbean cargo ship who were kidnapped in Nigeria's territorial waters in early February, have been released and left Nigeria late on Saturday, Artyom Romanov, a spokesman for the Russian embassy in Nigeria, told TASS on Sunday.

Women in Shipping - Interview with Captain Lindsay Price, Captain and Tugmaster, G&H Towing Company, Texas. *Shipping Podcast* [Online]. 24 February 2017. Available from: <https://shippingpodcast.com/lindsay-m-price-captain-tugmaster-g-h-towing-company-texas/> Meet Lindsay M. Price, who operates and manages a harbour tug within large, busy ports and channels on the Texas Gulf Coast. AUDIO

Nautilus support statement for International Women's Day 2017. By Mark Dickinson, General Secretary. *Nautilus International* [Online]. 8 March 2017. Available from: <https://nautilusint.org/en/what-we-say/nautilus-news/nautilus-support-statement-for-international-womens-day-2017/> Shipping is one of the most heavily male-dominated industries in the world, with women making up only 2% of the global maritime workforce.

The Human Impact of Crew Abandonment *MV Liberty Prudencia*. *Human Rights at Sea (HRAS)* [Online]. 10 March 2017. Available from: <https://www.humanrightsatsea.org/the-human-impact-of-crew-abandonment-mv-liberty-prudencia/> Human Rights at Sea today publishes an independent case study and investigative report into the case of the Indian crew of the *MV Liberty Prudencia*, who had been left onboard the vessel in China without wages since November 2016 suffering personal hardships and distressing effects for their families back home in India. [The Human Impact of Crew Abandonment *MV Liberty Prudencia*: Investigative Report & Case Study](#) 

Abu Sayyaf Kills Abducted Vietnamese Seafarer. *Maritime Executive* [Online]. 15 March 2017. Available from: <http://maritime-executive.com/article/abu-sayyaf-kills-abducted-vietnamese-seafarer> On Wednesday, the Armed Forces of the Philippines confirmed that the terrorist group Abu Sayyaf has killed one of the six Vietnamese seafarers abducted from the bulker *Giang Hai*.

Government of Sri Lanka secures the release of Sri Lankan Crew and 'Aris 13' Vessel hijacked by Pirates. *Government of Sri Lanka* [Online]. 17 March 2017. Available from: <http://mfa.gov.lk/index.php/en/media/media-releases/6895-aris13> The Ministry is pleased to announce that the vessel 'Aris 13' that was hijacked by pirates was released late last night/ early this morning (16-17 March Sri Lankan time) along with the eight Sri Lankan crew.

Shipowners call for MLC improvements. By Adam Corbett. *TradeWinds* [Online]. 16 March 2017. Available from: <http://www.tradewindsnews.com/weekly/1226732/shipowners-call-for-mlc-improvements> Shipowners are lobbying the Inter-national Maritime Organization (IMO) to improve the system of registering abandonment cases to make the Maritime Labour Convention 2006 (MLC 2006) more effective in helping seafarers in distress.

Group of Indian and Sri Lankan fishermen repatriated. *News LK (Sri Lanka)* [Online]. 15 March 2017. Available from: <http://www.news.lk/news/political-current-affairs/item/16194-group-of-indian-and-sri-lankan-fishermen-repatriated> A total of 89 fishermen, seventy seven Indians and twelve Sri Lankans who were held in custody in respective countries for violation of International Maritime Boundary Line and engaged in illegal fishing practices, were released from custody and repatriated to their counties yesterday (14th March).

Why Gender Diversity Matters Aboard Ships. By Captain George Livingstone. *gCaptain* [Online]. 17 March 2017. Available from: <http://gcaptain.com/gender-diversity-matters/> The United Nation's has declared the month of March as International Women's Month so it seemed right to review the subject of women in marine transportation for this column

Maritime jobs at risk during Fourth Industrial Revolution. By Max Tingyao Lin. *Lloyd's List* [Online]. 22 March 2017. Available from: <https://www.lloydslist.com/ll/sector/ship-operations/article552189.ece> CMA 2017: Seafarers, middlemen and even analysts could be among the casualties

AMOSUP confident PH will hurdle EMSA 2017 audit on STCW compliance. *Manila Bulletin* [Online]. 22 March 2017. Available from: <http://business.mb.com.ph/2017/03/22/amosup-confident-ph-will-hurdle-emsa-2017-audit-on-stcw-compliance/> The Associated Marine Officers' and Seamen's Union of the Philippines (AMOSUP) headed by its Chairman-President Dr, Conrado F. Oca yesterday expressed strong confidence the Philippines will pass the inspection-audit being conducted currently by the European Maritime Safety Agency (EMSA) on the country's maritime agencies and educational institutions.


Shipping encouraged to mind the gender pay gap. *Nautilus International* [Online]. 24 March 2017. Available from: <https://nautilusint.org/en/what-we-say/nautilus-news/shipping-encouraged-to-mind-the-gender-pay-gap/> UK shipping companies are being encouraged to pay attention to new gender pay gap reporting legislation - aimed at the recruitment and retention of women - coming into force in April.

SEARCH AND RESCUE

10 lives saved by Cosco ship in Mediterranean Sea. By Lee Hong Liang.

Seatrade Maritime News [Online]. 2 March 2017. Available from: <http://www.seatrade-maritime.com/news/global-whispers/10-lives-saved-from-mediterranean-sea.html> A swift and timely rescue executed by the crew onboard a general cargo ship of Cosco Shipping Specialised Carriers in the Mediterranean Sea saved the lives of 10 seafarers.

New NGO guidance for co-ordination of Search and Rescue in the Mediterranean published. *Human Rights at Sea (HRAS)* [Online]. 2 March 2017. Available from:

<https://www.humanrightsatsea.org/new-ngo-guidance-for-co-ordination-of-search-and-rescue-in-the-mediterranean-published/> Today, Human Rights at Sea publishes the first voluntary NGO minimum standard guidance working towards increased levels of joint co-ordination and co-operation for the on-going humanitarian relief effort in the Mediterranean region and in close co-ordination with established Rescue Coordination Centres, other State and non-State actors. [Code of Conduct for Search and Rescue Operations undertaken by civil society Non-Government Organisations in the Mediterranean Sea](#) 

Rural Arctic communities need to be integrated in SAR efforts. By Doris Friedrich.

High North News (Norway) [Online]. 15 March 2017. Available from: <http://www.highnorthnews.com/rural-arctic-communities-need-to-be-integrated-in-sar-efforts/> Local communities should work more closely with the Coast Guard when it comes to Search-and-Rescue (SAR) efforts in U.S. and Canadian Arctic waters, says Jessica Shadian, Nansen Professor at the University of Akureyri, Iceland.

Nor-Shipping urges action to build Mediterranean search and rescue capacity.

Nor-Shipping [Online]. 14 March 2017. Available from: <http://nor-shipping.com/urges-action/> Nor-Shipping is calling for a concerted international effort to boost search and rescue resources in the Mediterranean, before calmer weather leads to the now distressingly familiar surge in refugee crossings, and fatalities.

Italian Coast Guard honoured for Med migrant rescue work. By Bob Jaques.

Seatrade Maritime News [Online]. 24 March 2017. Available from: <http://www.seatrade-maritime.com/news/global-whispers/italian-coast-guard-honoured-for-med-migrant-rescue-work.html> IMO secretary-general Lim Ki-tack this week presented the International Salvage Union (ISU) Meritorious Service Award to the Italian Coast Guard, in recognition of what were described as its "extraordinary efforts" in handling the Mediterranean migrant crisis."

Piracy: NIMASA resuscitates regional search and rescue committee. By Tola Adenubi.

Nigerian Tribune [Online]. 30 March 2017. Available from: <http://tribuneonlineng.com/piracy-nimasa-resuscitates-regional-search-rescue-committee/> The Director General of the Nigerian Maritime Administration and Safety Agency (NIMASA), Dr Dakuku Peterside has revealed that his administration resuscitated meetings of the Regional Search and Rescue Committee after years of no meetings in the sub-region on tackling piracy activities in the West African sub region.

NGOs deny Italian lawyer's accusation of aiding traffickers. By Manasi Gopalakrishnan. *Deutsche Welle (DW) (Germany)* [Online]. 28 March 2017. Available from:

<http://www.dw.com/en/ngos-deny-italian-lawyers-accusation-of-aiding-traffickers/a-38154061> 

An Italian prosecutor said he suspected NGOs operating migrant rescue ships on the Mediterranean of colluding with people smugglers.

About Search and Rescue in the Mediterranean. *SOS Mediterranee - European Association for Rescue of Life in the Mediterranean Sea and Médecins Sans Frontières* [Online].

31 March 2017. Available from: <http://sosmediterranee.org/invitation-press-conference-31st-march-catania/> The EU's failure to reduce the number of deaths in the Mediterranean has forced humanitarian organizations to step up and take on search and rescue activities to prevent further loss of life at sea.

IMRF Calls for Dialogue to Discuss Unsubstantiated Claims of Misconduct.

International Maritime Rescue Federation [Online]. 31 March 2017. Available from: <https://www.international-maritime-rescue.org/10-news/2443-imrf-calls-for-dialogue-to-discuss-unsubstantiated-claims-of-misconduct> Ten maritime search and rescue non-governmental organisations (NGOs) have met with representatives of the European Parliament in Brussels.

IMRF EU Parliament Statement. *International Maritime Rescue Federation* [Online].

31 March 2017. Available from: <https://www.international-maritime-rescue.org/178-central-mediterranean/2441-imrf-eu-parlement-statement-29-march-2017> Search and Rescue in the Mediterranean Sea - Criminalisation of the humanitarian aid.

SHIPBUILDING AND SHIPREPAIR

"Kronprins Haakon" launched in Muggiano: One of the most advanced oceanographic icebreakers in the world for the study of climate change. *Fincantieri* [Online].

28 February 2017. Available from: <https://www.fincantieri.com/en/media/press-releases/2017/fincantieri-kronprins-haakon-launched-in-muggiano/> "Kronprins Haakon", the oceanographic icebreaker which Fincantieri is building for the Norwegian government, has been launched at the shipyard in Muggiano (La Spezia).

Norsafe Wins Polar Code Contract with Damen Schelde Naval Shipbuilding BV. *Norsafe* [Online]. 6 March 2017. Available from: <http://www.norsafe.com/News1/Norsafe-Wins-Polar-Code-Contract-with-Damen-Schelde-Naval-Shipbuilding-BV/>

Norsafe has signed a new contract with Damen Schelde Naval Shipbuilding BV to supply its IMO Polar Code compliant Life Saving Appliances (LSA) to an arctic supply and research vessel for the Australian Antarctic Division.

'Spinning sail' rebooted to cut fuel and make ocean tankers greener.

By Damian Carrington. *The Guardian* [Online]. 14 March 2017. Available from: <https://www.theguardian.com/environment/2017/mar/14/spinning-sail-reboot-cut-fuel-make-ocean-tankers-greener> An ocean-going tanker is to be fitted with a type of "spinning sail" invented almost a century ago in a step that could lead to more environmentally friendly tankers worldwide.

Specialized vessels the focus of newbuildings as owners reluctant to commit funds.

By Nikos Roussanoglou. *Hellenic Shipping News* [Online]. 15 March 2017. Available from: <http://www.hellenicshippingnews.com/specialized-vessels-the-focus-of-newbuildings-as-owners-reluctant-to-commit-funds/> The norm that has ship owners refraining from brisk newbuilding contracting activity has kept apace over the past week, as shipbroker reports have noted that there were few orders placed, with most of them revolving around more specialized units, rather than the main "bread and butter" segments of the industry, like tankers or bulkers.

World's Largest Containership Delivered, MOL Triumph - MOL's first 20,170 TEU containership will commence its maiden voyage.

Mitsui O.S.K. Lines Ltd.(MOL) [Online]. 28 March 2017. Available from: <http://www.mol.co.jp/en/pr/2017/17018.html> President & CEO Junichiro Ikeda today announced that the world's largest containership, *MOL Triumph* was delivered from Samsung Heavy Industries Co., Ltd. on March 27, 2017.

Keep close tabs on your newbuildings if you want shipyards to remedy defects.

All About Shipping [Online]. 27 March 2017. Available from: <http://www.allaboutshipping.co.uk/2017/03/27/keep-close-tabs-on-your-newbuildings-if-you-want-shipyards-to-remedy-defects/> Contractual issues arising from building merchant ships are inevitably "tricky" and give rise to problems requiring solutions.

SHIPPING

Joint industry statement – CLIA Europe, EBA, ECASBA, ECSA, EMPA, ETA, ETF, EuDA, Interferry, WSC.

European Shipping Week [Online]. 1 March 2017. Available from: <https://www.europeanshippingweek.com/joint-industry-statement-clia-europe-eba-ecasba-ecsa-empa-eta-etf-euda-interferry-wsc/> The European shipping industry, represented by the signatories to this statement issued on the occasion of European Shipping Week 2017, welcomes the European Commission's mid-term review of the EU Maritime Transport Strategy 2009-2018.

European Shipping Week kicks off the 2017 Maritime Year.

European Commission [Online]. 27 February 2017. Available from: https://ec.europa.eu/transport/2017-european-shipping-week_en EU Transport Commissioner Violeta Bulc has called 2017 to be the "Maritime Year" to raise awareness for the potential and the challenges of maritime sector and to review EU policy on maritime transport.

Maintaining and boosting the competitive position of the European shipping industry require a shift in policy priority says Deloitte study.

Hellenic Shipping News [Online]. 1 March 2017. Available from: <http://www.hellenicshippingnews.com/maintaining-and-boosting-the-competitive-position-of-the-european-shipping-industry-require-a-shift-in-policy-priority-says-deloitte-study/> The shipping industry in the EU is a highly mature industry and an economic giant in the European economy directly accounting for over 620,000 jobs.

IMO 2020 regulation could cost shippers extra US\$60 billion a year.

Wood Mackenzie [Online]. 28 February 2017. Available from: <https://www.woodmac.com/media-centre/12534395> According to a Wood Mackenzie study, global bunker fuel costs could rise by up to US\$60 billion annually from 2020, in a full compliance scenario, when the International Maritime Organization's (IMO) 0.5 wt% sulphur cap for bunker fuels kicks in.

Maersk to Become 'Integrator of Global Shipping'. *Port Technology International* [Online]. 1 March 2017. Available from:

https://www.porttechnology.org/news/maersk_to_become_integrator_of_global_shipping 

Vincent Clerc, Maersk Line's CCO, announced at the event that the company wants to become "the integrator of global shipping" and embrace digital change.

Digitalisation of Maritime Transport. *International Association of Classification Societies (IACS)* [Online]. 3 March 2017. Available from:

<http://www.iacs.org.uk/news/article.aspx?newsid=205> The International Association of Classification Societies (IACS), in cooperation with the European Commission hosted a workshop on Wednesday on the trends, safety and environmental aspects of cyber systems in shipping.

Shipping faces rocky patch amid tougher finance, rising bunker fuel costs.

S&P Global Platts [Online]. 2 March 2017. Available from: <http://www.platts.com/latest-news/shipping/london/feature-shipping-faces-rocky-patch-amid-tougher-26676058>

The twin prospects of increasingly challenging credit conditions and more expensive bunker fuel by 2020 are weighing heavily on today's shipping industry, officials from the European Community Shipowners' Associations said Tuesday.

Conference for maritime business. *The Cayman Reporter* [Online]. 2 March 2017.

Available from: <http://www.caymanreporter.com/2017/03/02/conference-maritime-business/>


The Cayman Maritime 2017 conference is approaching and the Cayman Islands Shipping Registry in collaboration with a steering committee from the private sector, including Cayman Maritime Services Park and law firm Maples, is gearing up for it.

UPDATED: New fuels 'will power the world fleet by 2050'. By Paul Gunton.

Tanker Shipping & Trade [Online]. 28 February 2017. Available from:

http://www.tankershipping.com/news/view,updated-new-fuels-will-power-the-world-fleet-by-2050_46696.htm Tankers and other bulk shipping sectors will have to use new energy sources if shipping is to adapt to expected restrictions on carbon emissions, predicted Tristan Smith, a reader at University College London who studies the environmental impacts of shipping.

Maersk and IBM target one of trade's biggest barriers. By John Churchill. *Maersk* [Online].

5 March 2017. Available from: <http://www.maersk.com/en/markets/2017/03/maersk-and-ibm-target-one-of-trades-biggest-barriers> 

The paperwork and processes vital to global trade are also one of its biggest burdens.

Some ado about shipping. By Kevin McGwin. *Arctic Journal* [Online]. 3 March 2017.

Available from: <http://arcticjournal.com/business/2961/some-ado-about-shipping> On March 8, "decision-makers" in the shipping industry will gather in Montréal for the 10th Arctic Shipping Summit. Despite this being only early March, there have been plenty of developments this year for them to go over, not all of them entirely positive.

Interview: Denis Delestrac (Director of Freightened: The real price of shipping) and Lee Adamson, IMO. *RT (Russia)* [Online]. 6 March 2017. Available from:

<https://www.rt.com/shows/going-underground/379565-trump-us-embassy-israel/> 

We speak to award winning director of Freightened about the real cost of globalization. Then, the UN's International Maritime Organisation weighs in on an industry producing the highest levels of sulfur dioxide emissions in the world. [Interviews begin at 15:00 min. approx.]

Panama Maritime 2017 to examine successes and prospects of the Canal and Ship Register. By Franklin Castellón. *Bulletin Panama* [Online]. 6 March 2017. Available from: <http://thebulletinpanama.com/2017/03/panama-maritime-2017-to-examine-successes-and-prospects-of-the-canal-and-ship-register/> The thirtieth version of the biannual Panama Maritime Exhibition will be dedicated to celebrating the country's two major maritime and logistics successes – the centenary of the Panamanian Ship Registry and the expansion of the Canal – and examine the promising perspectives the imminent transformation of Panama into the logistics hub of the Americas provides to investors.

A Grim 2017 Expected for Container Shipping. *Maritime Executive* [Online]. 7 March 2017. Available from: <http://www.maritime-executive.com/editorials/a-grim-2017-expected-for-container-shipping> The outlook for global container carriers remains grim at the outset of 2017, says analyst AlixPartners in their latest industry report.

Global container shipping outlook for 2017: rearranging the deck chairs—with only a few seats in the sun. *AlixPartners* [Online]. March 2017. Available from: https://emarketing.alixpartners.com/rs/emsimages/2017/pubs/EI/AP_Global_Container_Shipping_Outlook_Mar_2017.pdf  The industry continues to be plagued by the same challenges since the onset of the 2008 financial crisis.

Sulphur cap will hurt fuel oil sales: Analyst. By Jacqueline Woo. *Straits Times* [Online]. 9 March 2017. Available from: <http://www.straitstimes.com/business/companies-markets/sulphur-cap-will-hurt-fuel-oil-sales-analyst> The market for fuel oil - mainly used for ships - may well have a gloomy future given recently-announced global regulations to limit sulphur emissions from ships, according to an industry analyst.

An electric future. By Michael Grey. *Lloyd's List* [Online]. 9 March 2017. Available from: <https://www.lloydslist.com/ll/sector/ship-operations/article551421.ece> If you are fortunate enough to travel from Flam to Gudvangen in the delectable scenery of western Norway, you may pay a little extra and travel on the spectacular catamaran *Vision of the Fjords*.

Royal Arctic Line vessels to be flagged in Greenland. By Søren Pico. *ShippingWatch* [Online]. 10 March 2017. Available from: <http://shippingwatch.com/secure/carriers/Container/article9421869.ece> Royal Arctic Line is planning for a significant part of its fleet to sail under Greenland's flag going forward instead of the Danish flag, explains CEO Verner Hammeken in an interview with ShippingWatch following the record result from the carrier, published earlier this week.

Why the maritime industry must embrace e-certificates. *Splash 24/7* [Online]. 13 March 2017. Available from: <http://splash247.com/maritime-industry-must-embrace-e-certificates/> As a result of ongoing commercial challenges in the maritime industry, organisations are turning to technological innovation to reduce costs and gain competitive advantage.

Kongsberg: These are the top four trends in digital shipping. By Louise Vogdrup-Schmidt. *ShippingWatch* [Online]. 10 March 2017. Available from: <http://shippingwatch.com/secure/suppliers/article9422541.ece> Digitization and shipping have not naturally gone together until recently, but shipping's otherwise conservative and largely analogue industry seems to be coming around to its importance and is now slowly incorporating digital solutions across businesses, says CEO Hege Skryseth.

Infographic: Carrier Alliances Ready For World Trade. *Port Technology International* [Online]. 13 March 2017. Available from:

https://www.porttechnology.org/news/infographic_carrier_alliances_ready_for_world_trade

The Alliance last week firmed up the outstanding port decisions, with a few terminal decisions still pending, to finalise its network for the April 1 start.

Environmental stewardship: might the industry be a victim of its own success?

By Barry Parker. *Seatrade Cruise News* [Online]. 16 March 2017. Available from:

<http://www.seatrade-cruise.com/news/news-headlines/environmental-stewardship-might-the-industry-be-a-victim-of-its-own-success.html>

Seatrade Cruise Global's session on Innovations in Environmental Stewardship - moderated by CLIA's Bud Darr, posed one question which resonated throughout the entire hour-long panel.

Blockchain: a transitional and transformational technology for shipping. **By Jason Jiang.**

Splash 24/7 [Online]. 17 March 2017. Available from: <http://splash247.com/blockchain-transitional-transformational-technology-shipping/>

The word blockchain has been in the shipping news a great deal of late specifically following Danish shipping conglomerate Maersk's new partnership with IT giant IBM to jointly develop blockchain for box shipping.

The Med continues attracting cruisers. *MedCruise (Association of Mediterranean Cruise Ports)* [Online]. 13 March 2017. Available from:

<http://www.medcruise.com/article/1137/med-continues-attracting-cruisers>

MedCruise annual Statistics Report records more than 27,4 million cruisers and 13.460 cruise calls in the Mediterranean and its adjoining seas in 2016

[Cruise Activities in MedCruise ports: 2016](#) 

Methanol's use as marine fuel to hinge on commercial aspects. **By Surahabi Sahu.**

S&P Global Platts [Online]. 20 March 2017. Available from: <http://www.platts.com/latest-news/shipping/singapore/feature-methanols-use-as-marine-fuel-to-hinge-27793802>

The popularity of methanol as a bunker fuel will hinge on commercial considerations rather than environmental concerns, as the marine industry confronts an array of viable alternatives that comply with the International Maritime Organization's 2020 sulfur cap, sources said at an industry event.

Fake news in shipping: The ethics and effectiveness of combining PR with publishing.

By Graeme Somerville-Ryan. *Splash 24/7* [Online]. 20 March 2017. Available from:

<http://splash247.com/fake-news-shipping-ethics-effectiveness-combining-pr-publishing/>

Fake news: corporate or individual opinion masquerading as independently vetted fact.


Gas oil, low sulphur, hybrid fuels, scrubbers, methanol, LNG... which ones will shipping choose by 2020? **By Lee Hong Liang.** *Seatrade Maritime News* [Online]. 22 March 2017.

Available from: <http://www.seatrade-maritime.com/news/asia/gas-oil-low-sulphur-hybrid-fuels-scrubbers-methanol-lng-which-ones-will-shipping-choose-by-2020.html>


With less than three years away from the IMO Marpol Annex VI global 0.5% fuel sulphur rule, shipowners and operators are increasingly pressed for time to decide on which option they would choose to comply with the emissions reduction regulation.

The Republic of the Marshall Islands Registry Now World's 2nd Largest.

Marshall Islands Registry [Online]. 21 March 2017. Available from: <http://www.goo.gl/yzFXyj>

 "This is a very significant milestone for the RMI Registry," said Bill Gallagher, President, IRI.

Shipping confidence holds steady despite industry and political pressures.

By Richard Greiner. *Moore Stephens* [Online]. 21 March 2017. Available from: <http://www.moorestephens.co.uk/news-views/march-2017/shipping-confidence-industry-political-pressures> Shipping confidence held steady in the three months to end-February 2017, as recorded in our latest Shipping Confidence Survey. [Shipping Confidence Survey](#) 

China ban stymies Korea, Miami eyes a Carnival terminal, Copenhagen and Hamburg poised to build. By Tom Peisley. *Seatrade Cruise News* [Online]. 21 March 2017.

Available from: <http://www.seatrade-cruise.com/news/news-headlines/china-ban-stymies-korea-miami-eyes-a-carnival-terminal-copenhagen-and-hamburg-poised-to-build.html>

China's politically motivated suspension of permission for its people to cruise to Korea has cast a shadow over the expansion plans for the main Korean cruise port of Jeju, described by John Tercek, vp new business development, Royal Caribbean Cruises Ltd., as 'the number one cruise port in Asia.'


Cyprus back into shipping. By David Glass. *Seatrade Maritime News* [Online].

24 March 2017. Available from: <http://www.seatrade-maritime.com/news/europe/cyprus-back-into-shipping.html> Decisive reforms, prudent fiscal management, hard work and the peoples' determination have seen the country exit earlier than expected from the economic adjustment programme instigated by the its creditors.

Panama issues electronic BWMP approvals. *Green4Sea* [Online]. 23 March 2017.

Available from: <http://www.green4sea.com/panama-issues-electronic-bwmp-approvals/> The Panama Maritime Authority informs that ship-owners and ship-operators are able to upload the Ship's BWMP online, from March 15, 2017.

New International Gas Union Report Highlights Significant Role of LNG in Cleaner Marine Transport. *International Gas Union (IGU)* [Online]. 23 March 2017. Available from:

<http://www.igu.org/news/new-international-gas-union-report-highlights-significant-role-lng-cleaner-marine-transport> The International Gas Union (IGU) has released a new report on the crucial role of liquefied natural gas (LNG) in enabling cleaner marine transport - currently a major cause of human health and environmental costs. [Enabling Clean Marine Transport](#) 

South Korea's insular maritime world needs a good spring clean. By Terry Macalister.

TradeWinds [Online]. 23 March 2017. Available from: <http://www.tradewindsnews.com/weekly/1230346/south-koreas-insular-maritime-world-needs-a-good-spring-clean> The country's shipping and shipbuilding industries have been through a calamitous time and it can only be hoped lessons will be learned on governance and getting in tune with wider international issues.


Liberian Registry Passes Historic 150m Gross Tons Landmark. By A Wilson.

Liberian Registry [Online]. 22 March 2017. Available from: <http://www.lisr.com/blog/liberian-registry-passes-historic-150m-gross-tons-landmark> The Liberian Registry has passed the historic milestone of 150 million gross tons, confirming its position as the second largest ship registry in the world, behind only Panama, in terms of numbers of ships and gross tonnage.

Shipowners look to carbon as looming regulatory risk. By Jack Jordan and Tom Washington. *S&P Global Platts* [Online]. 24 March 2017. Available from:

<http://www.platts.com/latest-news/shipping/singapore/feature-shipowners-look-to-carbon-as-looming-26694090> With many in the shipping industry looking at ways to cut their sulfur emissions ahead of tighter limits being introduced in 2020, others are already looking at carbon as another problem that will face them in the coming years.

New research on black carbon emission factors from ships. *Climate & Clean Air Coalition (CCAC)* [Online]. 20 March 2017. Available from: <http://www.ccacoalition.org/en/news/new-research-black-carbon-emission-factors-ships> Ports and marine vessels are a large source of black carbon (soot). Shipping is responsible for approximately two per cent of global black carbon emissions and nine per cent of all diesel black carbon emissions.

Black carbon measurement methods and emission factors from ships.
By Dr. Kent Johnson, Dr. Wayne Miller, Dr. Tom Durbin, Yu Jiang, Jiacheng Yang, Dr. George Karavalakis, and Dr. David Cocker. *International Council on Clean Transportation (ICCT)* [Online]. 20 March 2017. Available from: <http://www.theicct.org/black-carbon-measurement-methods-and-emission-factors-from-ships> Black carbon (BC) emissions from ships contribute to human induced climate warming and are linked with human health issues, such as lung cancer, respiratory illness, and cardiopulmonary disease.
[Black Carbon Measurement Methods and Emission Factors from Ships: Full Report](#) 

Shippers cry foul over April 1 reshuffle of the global container alliances.
By Sam Chambers. *Splash 24/7* [Online]. 28 March 2017. Available from: <http://splash247.com/shippers-cry-foul-april-1-reshuffle-global-container-alliances/> April 1 could turn out to be a proper fool's day for the world's leading containerlines.

Russian Maritime Register of Shipping holds the conference on containers and container transportation. *Port News* [Online]. 28 March 2017. Available from: <http://portnews.ru/news/236530/> The conference "Containers and Container Transportation – Problems, Solutions and Perspectives" was held by the Russian Maritime Register of Shipping (RS).

Is it time to realign class and flags? *Marasi News (UAE)* [Online]. 28 March 2017. Available from: <http://www.marasinews.com/experts-view/it-time-realign-class-and-flags> Omar Abu Omar, President for Gulf Navigation Maritime and Operation in the UAE, believes it may be time to fundamentally review the role of class for flag states.

Stratfor: Why the Global Shipping Industry Will Be Tough to Salvage. *Hellenic Shipping News* [Online]. 28 March 2017. Available from: <http://www.hellenicshippingnews.com/stratfor-why-the-global-shipping-industry-will-be-tough-to-salvage/> The political order that defines the world is changing, and with it, the global shipping industry.

Chairman: Maersk has developed 15 digital prototypes. By Ritzau Finans. *ShippingWatch* [Online]. 28 March 2017. Available from: <http://shippingwatch.com/secure/carriers/Container/article9465160.ece> The work on new, digital solutions aimed at making the Maersk Group's transport activities more flexible and smarter is now slowly getting started, explains departing chairman Michael Pram Rasmussen on Tuesday's General Assembly in Copenhagen.

Worldwide Growth of Interest in the Arctic Is Not Surprising. *Russian International Affairs Council (RIAC)* [Online]. 29 March 2017. Available from: http://www.russiancouncil.ru/en/inner/?id_4=8887 On March 21, 2017 RIAC hosted an expert discussion "Science Diplomacy: US–Russia Cooperation in the Arctic".

ClassNK releases Guidelines for Liquefied Hydrogen Carriers. *ClassNK* [Online]. 29 March 2017. Available from: https://www.classnk.or.jp/hp/en/hp_news.aspx?id=2359&type=press_release&layout=1 Leading classification society ClassNK has released its Guidelines for Liquefied Hydrogen (LH2) Carriers for the safe constructions and operation of LH2 carriers based on provisions of the IMO Interim Recommendations.

Maritime Leaders Urge Shipping Industry to Prepare Now for Future Challenges, Regulation Changes. *Ship & Bunker* [Online]. 31 March 2017. Available from: <http://shipandbunker.com/news/world/549785-maritime-leaders-urge-shipping-industry-to-prepare-now-for-future-challenges-regulation-changes> Maritime leaders Thursday, at a briefing session in advance of the Sea Asia 2017 conference and exhibition, called on the shipping industry to proactively prepare now to "future-proof" the industry and stay competitive in the current volatile market environment, the Singapore Maritime Foundation and Seatrade have announced.

Arctic Shipping to Grow by Over 3 Times by 2020: Sovcomflot Exec. *Ship & Bunker* [Online]. 31 March 2017. Available from: <http://shipandbunker.com/news/emea/549083-arctic-shipping-to-grow-by-over-3-times-by-2020-sovcomflot-exec> Evgeny Ambrosov, Senior Executive Vice President of Russia's PAO Sovcomflot (Sovcomflot), says the development of industrial and raw material projects within Russia's Arctic zone are expected to spur growth in the Arctic commercial shipping by more than three times.

New Study Shows Cruise Industry's Leadership In Environmental Performance. *Cruise Lines International Association (CLIA)* [Online]. 30 March 2017. Available from: <https://www.cruising.org/about-the-industry/press-room/press-releases/new-study-shows-cruise-industrys-leadership-in-environmental-performance> A new study released today by Cruise Lines International Association (CLIA) provides the first-ever wide-ranging analysis by independent maritime environmental experts of the cruise industry's environmental practices and performance.

Final Report: Evaluation of Cruise Industry Global Environmental Practices and Performance. By LLC Energy and Environmental Research Associates, Edward Carr, and James J. Corbett. *Cruise Lines International Association (CLIA)* [Online]. 16 January 2017. Available from: <http://cruising.org/docs/default-source/research/environment-research-2017.pdf>  This research evaluates current wastewater and air quality management practices in the international cruise industry.

Russian tanker forges path for Arctic shipping super-highway. By Olesya Astakhova. *Reuters* [Online]. 30 March 2017. Available from: <http://www.reuters.com/article/us-novatek-Ing-putin-idUSKBN1712K6> An ice-breaking tanker docked for the first time at Russia's Arctic port of Sabetta to test a new route that could open the ice-bound Arctic Ocean to ships carrying oil and liquefied gas.

Priorities for the EU's Maritime Transport Policy until 2020 ... (Valletta Declaration). *Malta Presidency EU 2017* [Online]. 27 March 2017. Available from: http://www.eu2017.mt/en/Documents/Valletta_Declaration_on_the_EU_maritime_transport_policy.pdf  Ministerial Declaration on Priorities for the EU's maritime transport policy until 2020: Competitiveness, Decarbonisation, Digitalisation to ensure global connectivity, and efficient internal market and a world-class maritime cluster (Valletta Declaration)

Shipping could escape from EU emissions trading, says DNV GL. By Anastassios Adamopoulos. *Lloyd's List* [Online]. 30 March 2017. Available from: <https://www.lloydslist.com/ll/sector/regulation/article552851.ece> Conflicting regulation on shipping emissions may not last for long, as shipping could escape from the European Union's Emission Trading System and the different monitoring, reporting and verification systems touted by the EU and the International Maritime Organization should harmonise, according to DNV GL director for environment Eirik Nyhus.

RESEARCH

Increase in acidifying water in the western Arctic Ocean. By D. Qi, L. Chen et al.

Nature Climate Change. [Online]. (2017). Available from:

<http://dx.doi.org/10.1038/nclimate3228> The Arctic Ocean is particularly sensitive to climate change and aragonite is expected to become undersaturated there sooner than in other oceans.

Using early life stages of marine animals to screen the toxicity of priority hazardous and noxious substances. By I. Cunha, T. Torres et al.

Environmental Science and Pollution Research. [Online]. (2017). Available from: <http://dx.doi.org/10.1007/s11356-017-8663-8>

This study provides toxicity values for early life stages (ELS) of two phylogenetically distinct marine animal taxa, the sea urchin (*Paracentrotus lividus*), a deuterostome invertebrate, and the turbot (*Scophthalmus maximus*), a vertebrate (teleost), when challenged by six hazardous and noxious substances (HNS): aniline, butyl acrylate, m-cresol, cyclohexylbenzene, hexane and trichloroethylene.

Global warming and recurrent mass bleaching of corals. By T. P. Hughes, J. T. Kerry et al.

Nature. [Online]. (2017). Available from: <http://www.nature.com/articles/nature21707.epdf> 

Here we examine how and why the severity of recurrent major bleaching events has varied at multiple scales, using aerial and underwater surveys of Australian reefs combined with satellite-derived sea surface temperatures.

Antarctica and the strategic plan for biodiversity. By S. L. Chown, C. M. Brooks et al.

Plos Biology. [Online]. (2017). Available from:

<http://dx.doi.org/10.1371/journal.pbio.2001656> The Strategic Plan for Biodiversity, adopted under the auspices of the Convention on Biological Diversity, provides the basis for taking effective action to curb biodiversity loss across the planet by 2020 - an urgent imperative.

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.